H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WD-4-00-P7-8TW-FASY-POE 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ul #13323616.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 8 OCT 2020
[MANUFAC] H E Williams Inc
[LUMCAT] MX4WD-4'00-P7/8TW-FASY-PoE 4000k
[LUMINAIRE] White aluminum housing, frosted lens enclosure
[LAMP] 144 white LEDs
[OTHER] This test was performed using the calibrated photodetector met
[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2646
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6864	8206	8711
55	6525	7969	8503
65	6073	7611	8163
75	5250	7104	7749
85	3823	6573	7639

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WD-4-00-P7-8TW-FASY-POE 4000K_.IES

CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	953.844	953.844	953.844	953.844	953.844	953.844	953.844	953.844	953.844	953.844
0.5	955.511	959.680	953.427	955.511	955.928	955.511	953.427	959.680	955.511	956.345
1.0	955.511	960.931	955.928	958.430	959.263	958.430	955.928	960.931	955.511	954.678
1.5	955.511	962.182	958.847	961.765	963.015	961.765	958.847	962.182	955.511	952.593
2.0	954.678	963.432	960.931	964.683	966.351	964.683	960.931	963.432	954.678	950.926
2.5	954.678	964.266	963.015	967.601	969.269	967.601	963.015	964.266	954.678	948.841
3.0	953.844	965.517	965.100	970.519	972.187	970.519	965.100	965.517	953.844	946.340
3.5	953.427	966.351	967.184	973.021	975.105	973.021	967.184	966.351	953.427	944.255
4.0	953.010	966.767	968.852	975.939	977.607	975.939	968.852	966.767	953.010	941.754
4.5	951.759	967.601	970.519	978.440	980.525	978.440	970.519	967.601	951.759	939.670
5.0	950.926	968.018	972.187	980.942	983.026	980.942	972.187	968.018	950.926	937.168
5.5	950.092	968.852	973.855	983.026	985.527	983.026	973.855	968.852	950.092	934.667
6.0	948.841	968.852	975.105	985.111	988.029	985.111	975.105	968.852	948.841	932.166
6.5	947.590	969.269	976.356	987.195	990.113	987.195	976.356	969.269	947.590	929.247
7.0	946.340	969.269	977.190	989.279	993.031	989.279	977.190	969.269	946.340	926.746
7.5	944.672	968.852	978.440	990.947	995.116	990.947	978.440	968.852	944.672	923.828
8.0	943.005	968.852	979.691	992.615	997.200	992.615	979.691	968.852	943.005	920.910
8.5	941.337	968.435	980.525	994.282	999.285	994.282	980.525	968.435	941.337	917.991
9.0	940.086	968.018	980.942	995.533	1000.952	995.533	980.942	968.018	940.086	914.656
9.5	938.002	967.601	981.775	996.783	1003.037	996.783	981.775	967.601	938.002	911.738
10.0	935.918	966.767	982.192	998.034	1004.287	998.034	982.192	966.767	935.918	908.820
10.5	933.833	966.351	983.026	999.702	1005.955	999.702	983.026	966.351	933.833	905.485
11.0	931.749	965.517	983.026	1000.535	1007.206	1000.535	983.026	965.517	931.749	902.566
11.5	929.247	964.683	983.026	1001.369	1007.623	1001.369	983.026	964.683	929.247	899.231
12.0	927.163	963.432	983.026	1002.203	1008.873	1002.203	983.026	963.432	927.163	895.479
12.5	924.662	962.599	982.609	1002.620	1009.290	1002.620	982.609	962.599	924.662	892.144
13.0	922.160	961.348	982.609	1003.454	1010.124	1003.454	982.609	961.348	922.160	888.809
13.5	919.659	960.097	982.192	1003.454	1010.124	1003.454	982.192	960.097	919.659	885.057
14.0	917.158	958.847	981.775	1003.454	1010.124	1003.454	981.775	958.847	917.158	881.722
14.5	914.239	957.179	980.942	1003.454	1010.124	1003.454	980.942	957.179	914.239	877.970
15.0	911.321	955.511	980.525	1003.454	1010.124	1003.454	980.525	955.511	911.321	873.801
15.5	908.403	953.844	979.274	1002.620	1009.707	1002.620	979.274	953.844	908.403	870.049
16.0	905.485	951.759	978.440	1002.203	1009.707	1002.203	978.440	951.759	905.485	865.880
16.5	902.566	950.092	977.190	1001.369	1009.290	1001.369	977.190	950.092	902.566	862.128
17.0	899.231	948.007	975.939	1000.535	1008.873	1000.535	975.939	948.007	899.231	857.542
17.5	895.896	945.923	974.688	999.702	1008.040	999.702	974.688	945.923	895.896	853.373
18.0	892.978	943.422	973.438	998.868	1007.206	998.868	973.438	943.422	892.978	849.204
18.5	889.226	941.337	971.353	997.617	1006.789	997.617	971.353	941.337	889.226	845.036
19.0	885.891	938.419	969.686	996.783	1005.955	996.783	969.686	938.419	885.891	840.450
19.5	882.139	935.918	967.601	995.116	1004.704	995.116	967.601	935.918	882.139	835.864
20.0	878.387	932.999	965.934	993.865	1003.454	993.865	965.934	932.999	878.387	831.278
20.5	874.635	930.081	963.849	992.198	1002.203	992.198	963.849	930.081	874.635	826.692
21.0	870.883	927.163	961.765	990.947	1000.535	990.947	961.765	927.163	870.883	822.107
21.5	866.714	923.828	959.263	989.279	998.451	989.279	959.263	923.828	866.714	817.521
22.0	862.962	920.910	956.762	987.195	996.783	987.195	956.762	920.910	862.962	812.518
22.5	858.793	917.574	954.261	985.111	994.699	985.111	954.261	917.574	858.793	807.932
23.0	854.624	913.822	951.342	983.026	992.198	983.026	951.342	913.822	854.624	803.347
23.5	850.038	910.487	948.841	980.525	990.113	980.525	948.841	910.487	850.038	797.927
24.0	845.869	906.735	945.923	978.023	988.029	978.023	945.923	906.735	845.869	792.924
24.5	841.284	902.983	942.588	975.522	985.527	975.522	942.588	902.983	841.284	787.922
25.0	836.698	899.231	939.670	972.604	982.609	972.604	939.670	899.231	836.698	782.919
25.5	832.112	895.062	936.334	969.686	980.108	969.686	936.334	895.062	832.112	778.333
26.0	827.109	890.893	932.999	966.767	977.190	966.767	932.999	890.893	827.109	772.497
26.5	822.524	886.725	929.247	963.432	973.855	963.432	929.247	886.725	822.524	767.494

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

27.0	817.521	882.139	925.495	960.097	970.519	960.097	925.495	882.139	817.521	762.075
27.5	812.518	877.970	921.743	956.345	967.184	956.345	921.743	877.970	812.518	757.072
28.0	807.516	873.384	917.991	953.010	963.432	953.010	917.991	873.384	807.516	751.652
28.5	802.096	868.798	913.822	949.258	959.680	949.258	913.822	868.798	802.096	746.233
29.0	797.093	863.796	909.654	945.089	955.928	945.089	909.654	863.796	797.093	740.396
29.5	791.257	858.793	905.485	940.920	951.759	940.920	905.485	858.793	791.257	734.977
30.0	785.837	853.790	900.899	936.334	947.174	936.334	900.899	853.790	785.837	729.557
30.5	780.418	848.788	896.313	931.749	942.588	931.749	896.313	848.788	780.418	723.721
31.0	774.998	843.368	891.310	927.163	938.002	927.163	891.310	843.368	774.998	717.884
31.5	769.579	838.365	886.308	922.577	933.416	922.577	886.308	838.365	769.579	712.465
32.0	763.742	832.946	880.888	917.574	928.414	917.574	880.888	832.946	763.742	706.211
32.5	757.906	827.526	875.469	912.155	923.411	912.155	875.469	827.526	757.906	700.375
33.0	752.486	822.107	870.049	906.735	918.408	906.735	870.049	822.107	752.486	694.121
33.5	747.066	816.270	864.629	901.733	912.989	901.733	864.629	816.270	747.066	687.868
34.0	740.813	810.434	858.793	896.313	907.569	896.313	858.793	810.434	740.813	682.032
34.5	735.394	804.597	852.957	890.477	902.149	890.477	852.957	804.597	735.394	675.778
35.0	729.140	798.761	847.120	885.057	896.313	885.057	847.120	798.761	729.140	669.942
35.5	723.304	792.507	841.700	879.221	890.477	879.221	841.700	792.507	723.304	663.689
36.0	717.467	786.671	835.447	873.384	884.640	873.384	835.447	786.671	717.467	657.018
36.5	711.214	780.418	830.028	867.548	878.387	867.548	830.028	780.418	711.214	651.182
37.0	705.378	774.581	823.774	861.711	872.133	861.711	823.774	774.581	705.378	644.512
37.5	699.124	767.911	817.938	855.458	865.880	855.458	817.938	767.911	699.124	638.258
38.0	692.871	762.075	812.101	849.204	859.627	849.204	812.101	762.075	692.871	631.588
38.5	686.617	755.821	805.848	842.951	853.373	842.951	805.848	755.821	686.617	625.335
39.0	679.947	749.568	799.595	836.698	846.703	836.698	799.595	749.568	679.947	619.081
39.5	673.694	743.314	793.341	830.028	840.033	830.028	793.341	743.314	673.694	612.411
40.0	667.441	737.061	787.088	823.774	833.363	823.774	787.088	737.061	667.441	606.158
40.5	660.770	730.808	780.835	816.687	827.109	816.687	780.835	730.808	660.770	599.904
41.0	654.100	724.554	774.164	810.434	820.022	810.434	774.164	724.554	654.100	593.234
41.5	647.430	717.884	767.077	803.347	813.352	803.347	767.077	717.884	647.430	586.564
42.0	640.760	711.631	760.407	796.259	806.265	796.259	760.407	711.631	640.760	579.894
42.5	634.506	704.961	753.320	789.172	799.595	789.172	753.320	704.961	634.506	573.640
43.0	627.836	698.707	746.650	782.085	792.091	782.085	746.650	698.707	627.836	566.970
43.5	621.166	691.620	739.562	774.998	785.003	774.998	739.562	691.620	621.166	560.300
44.0	614.496	685.367	732.892	767.494	777.499	767.494	732.892	685.367	614.496	554.047
44.5	607.825	678.280	725.805	760.407	770.412	760.407	725.805	678.280	607.825	547.376
45.0	601.155	671.609	718.718	752.903	762.908	752.903	718.718	671.609	601.155	540.706
45.5	594.485	664.522	711.631	745.399	755.404	745.399	711.631	664.522	594.485	534.036
46.0	587.815	657.852	704.544	738.312	747.900	738.312	704.544	657.852	587.815	527.782
46.5	581.144	650.765	697.040	730.391	739.979	730.391	697.040	650.765	581.144	521.529
47.0	574.474	643.678	689.953	723.304	732.475	723.304	689.953	643.678	574.474	514.859
47.5	567.804	636.174	682.865	715.800	724.971	715.800	682.865	636.174	567.804	508.189
48.0	561.551	629.087	675.361	708.296	717.467	708.296	675.361	629.087	561.551	501.935
48.5	554.880	621.583	668.274	700.792	709.963	700.792	668.274	621.583	554.880	495.682
49.0	548.210	614.496	660.353	693.288	702.042	693.288	660.353	614.496	548.210	489.012
49.5	541.123	606.992	652.849	685.367	694.538	685.367	652.849	606.992	541.123	482.758
50.0	534.453	599.488	645.345	677.863	686.617	677.863	645.345	599.488	534.453	476.505
50.5	527.366	591.983	637.841	669.942	678.697	669.942	637.841	591.983	527.366	469.835
51.0	520.695	584.896	629.920	662.021	670.359	662.021	629.920	584.896	520.695	463.581
51.5	513.608	577.392	622.000	654.100	662.855	654.100	622.000	577.392	513.608	457.328
52.0	506.521	569.888	614.079	646.179	654.517	646.179	614.079	569.888	506.521	450.658
52.5	499.851	562.384	606.575	638.258	646.596	638.258	606.575	562.384	499.851	443.988
53.0	492.764	554.880	598.237	630.337	638.258	630.337	598.237	554.880	492.764	437.317
53.5	485.260	547.376	590.733	622.000	629.920	622.000	590.733	547.376	485.260	430.647
54.0	478.173	539.872	582.812	613.662	621.583	613.662	582.812	539.872	478.173	423.977
54.5	471.085	532.368	574.474	605.324	613.245	605.324	574.474	532.368	471.085	417.724

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

55.0	463.581	524.864	566.136	597.403	604.073	597.403	566.136	524.864	463.581	410.928
55.5	456.077	516.943	558.215	589.065	595.736	589.065	558.215	516.943	456.077	404.341
56.0	448.573	509.439	550.295	580.727	586.981	580.727	550.295	509.439	448.573	397.755
56.5	441.486	501.935	541.957	571.973	578.643	571.973	541.957	501.935	441.486	391.251
57.0	434.399	494.014	533.619	563.218	569.888	563.218	533.619	494.014	434.399	384.372
57.5	427.312	486.093	525.281	554.463	561.134	554.463	525.281	486.093	427.312	377.827
58.0	420.225	478.173	516.943	545.709	552.379	545.709	516.943	478.173	420.225	370.949
58.5	412.804	470.252	508.606	536.954	543.624	536.954	508.606	470.252	412.804	364.320
59.0	405.467	462.331	500.268	528.199	534.453	528.199	500.268	462.331	405.467	357.358
59.5	398.255	454.410	491.930	519.445	525.698	519.445	491.930	454.410	398.255	350.604
60.0	391.043	446.489	483.175	510.690	516.943	510.690	483.175	446.489	391.043	343.934
60.5	383.622	438.568	474.837	501.518	508.189	501.518	474.837	438.568	383.622	337.180
61.0	376.368	430.230	466.500	492.764	499.017	492.764	466.500	430.230	376.368	330.302
61.5	368.822	422.309	458.162	483.592	489.845	483.592	458.162	422.309	368.822	323.632
62.0	361.569	414.222	449.407	474.837	480.674	474.837	449.407	414.222	361.569	317.378
62.5	354.356	406.134	441.069	466.083	471.919	466.083	441.069	406.134	354.356	310.500
63.0	347.102	398.130	432.315	456.911	463.165	456.911	432.315	398.130	347.102	304.288
63.5	339.890	389.792	423.977	448.157	454.410	448.157	423.977	389.792	339.890	297.451
64.0	332.261	381.621	415.722	439.819	445.238	439.819	415.722	381.621	332.261	290.530
64.5	325.341	373.575	407.093	430.647	436.484	430.647	407.093	373.575	325.341	283.652
65.0	317.878	365.404	398.422	421.476	427.312	421.476	398.422	365.404	317.878	276.773
65.5	310.291	357.400	389.709	412.763	418.140	412.763	389.709	357.400	310.291	270.020
66.0	302.954	349.145	381.121	403.883	409.261	403.883	381.121	349.145	302.954	263.308
66.5	296.033	340.932	372.491	395.003	400.298	395.003	372.491	340.932	296.033	256.471
67.0	288.363	332.636	363.820	386.040	391.334	386.040	363.820	332.636	288.363	249.592
67.5	280.734	324.590	355.148	377.077	382.205	377.077	355.148	324.590	280.734	242.713
68.0	273.021	317.253	346.644	367.905	373.033	367.905	346.644	317.253	273.021	235.793
68.5	265.392	309.749	337.806	358.984	364.028	358.984	337.806	309.749	265.392	228.998
69.0	257.763	301.536	329.009	349.812	354.940	349.812	329.009	301.536	257.763	222.119
69.5	250.176	293.324	320.755	340.766	345.935	340.766	320.755	293.324	250.176	215.199
70.0	242.588	285.153	312.917	331.719	336.847	331.719	312.917	285.153	242.588	208.362
70.5	235.042	276.940	305.080	322.714	327.800	322.714	305.080	276.940	235.042	201.525
71.0	227.497	268.602	296.284	314.210	318.712	314.210	296.284	268.602	227.497	194.688
71.5	219.993	260.514	287.696	306.331	311.125	306.331	287.696	260.514	219.993	187.851
72.0	212.530	252.302	279.108	297.284	302.287	297.284	279.108	252.302	212.530	181.097
72.5	205.110	244.131	270.603	288.321	293.115	288.321	270.603	244.131	205.110	174.302
73.0	197.773	235.918	262.015	279.400	284.069	279.400	262.015	235.918	197.773	167.590
73.5	190.394	227.705	253.386	270.520	275.064	270.520	253.386	227.705	190.394	160.878
74.0	183.015	219.576	244.839	261.723	266.059	261.723	244.839	219.576	183.015	154.333
74.5	175.636	211.446	236.251	252.885	257.263	252.885	236.251	211.446	175.636	147.871
75.0	168.298	203.359	227.747	244.047	248.425	244.047	227.747	203.359	168.298	141.367
75.5	161.045	195.355	219.367	235.251	239.461	235.251	219.367	195.355	161.045	135.114
76.0	153.791	187.350	210.905	226.621	230.623	226.621	210.905	187.350	153.791	128.819
76.5	146.620	179.388	202.483	217.867	221.785	217.867	202.483	179.388	146.620	122.649
77.0	139.533	171.508	194.187	209.237	212.989	209.237	194.187	171.508	139.533	116.479
77.5	132.529	163.671	185.933	200.649	204.318	200.649	185.933	163.671	132.529	110.309
78.0	125.567	155.875	177.678	192.186	195.813	192.186	177.678	155.875	125.567	104.389
78.5	118.689	148.246	169.424	183.723	187.350	183.723	169.424	148.246	118.689	98.386
79.0	111.852	140.742	161.336	175.260	178.971	175.260	161.336	140.742	111.852	92.466
79.5	105.098	133.280	153.290	166.839	170.425	166.839	153.290	133.280	105.098	86.713
80.0	98.511	125.942	145.369	158.460	162.045	158.460	145.369	125.942	98.511	81.043
80.5	92.049	118.647	137.532	150.080	153.666	150.080	137.532	118.647	92.049	75.457
81.0	85.796	111.435	129.736	141.868	145.369	141.868	129.736	111.435	85.796	69.996
81.5	79.668	104.264	121.940	133.780	137.282	133.780	121.940	104.264	79.668	64.660
82.0	73.706	97.260	114.311	125.776	129.278	125.776	114.311	97.260	73.706	59.407
82.5	67.911	90.382	106.724	117.855	121.357	117.855	106.724	90.382	67.911	54.279

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

83.0	62.283	83.628	99.387	110.017	113.352	110.017	99.387	83.628	62.283	49.235
83.5	56.822	76.958	92.091	102.221	105.431	102.221	92.091	76.958	56.822	44.399
84.0	51.444	70.496	84.920	94.551	97.594	94.551	84.920	70.496	51.444	39.646
84.5	46.275	64.159	77.875	87.047	89.923	87.047	77.875	64.159	46.275	35.060
85.0	41.272	57.989	70.955	79.668	82.461	79.668	70.955	57.989	41.272	30.641
85.5	36.478	51.986	64.201	72.455	75.165	72.455	64.201	51.986	36.478	26.389
86.0	31.892	46.191	57.614	65.327	68.036	65.327	57.614	46.191	31.892	22.304
86.5	27.431	40.522	51.152	58.406	60.949	58.406	51.152	40.522	27.431	18.301
87.0	23.012	35.060	44.816	51.569	53.946	51.569	44.816	35.060	23.012	14.383
87.5	18.802	29.766	38.687	44.899	47.109	44.899	38.687	29.766	18.802	10.589
88.0	14.716	24.638	32.684	38.437	40.522	38.437	32.684	24.638	14.716	6.879
88.5	10.672	19.677	26.889	32.142	34.102	32.142	26.889	19.677	10.672	3.335
89.0	6.754	14.841	21.261	26.056	27.890	26.056	21.261	14.841	6.754	1.084
89.5	3.877	9.922	15.800	20.052	21.803	20.052	15.800	9.922	3.877	0.334
90.0	1.918	5.461	10.464	14.049	15.717	14.049	10.464	5.461	1.918	0.292
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	**Horizontal Angles**						
	225.0	**247.5**	**270.0**	**292.5**	**315.0**	**337.5**	**360.0**
0.0	953.844	953.844	953.844	953.844	953.844	953.844	953.844
0.5	948.007	948.424	949.258	948.424	948.007	956.345	955.511
1.0	945.089	945.089	945.923	945.089	945.089	954.678	955.511
1.5	942.171	941.337	942.171	941.337	942.171	952.593	955.511
2.0	939.253	937.585	938.419	937.585	939.253	950.926	954.678
2.5	935.918	933.833	934.667	933.833	935.918	948.841	954.678
3.0	932.999	930.081	930.498	930.081	932.999	946.340	953.844
3.5	929.247	926.329	926.329	926.329	929.247	944.255	953.427
4.0	926.329	922.577	922.160	922.577	926.329	941.754	953.010
4.5	922.577	918.408	917.574	918.408	922.577	939.670	951.759
5.0	918.825	914.239	913.406	914.239	918.825	937.168	950.926
5.5	915.490	910.070	908.820	910.070	915.490	934.667	950.092
6.0	912.155	905.902	904.234	905.902	912.155	932.166	948.841
6.5	908.403	901.316	900.065	901.316	908.403	929.247	947.590
7.0	904.651	897.147	895.479	897.147	904.651	926.746	946.340
7.5	900.899	892.561	890.893	892.561	900.899	923.828	944.672
8.0	897.147	887.975	886.308	887.975	897.147	920.910	943.005
8.5	893.395	883.389	881.305	883.389	893.395	917.991	941.337
9.0	889.643	878.804	876.719	878.804	889.643	914.656	940.086
9.5	885.891	874.635	871.717	874.635	885.891	911.738	938.002
10.0	881.722	870.049	866.714	870.049	881.722	908.820	935.918
10.5	877.970	865.046	861.711	865.046	877.970	905.485	933.833
11.0	873.801	860.461	857.125	860.461	873.801	902.566	931.749
11.5	869.632	855.875	851.706	855.875	869.632	899.231	929.247
12.0	865.046	850.872	846.703	850.872	865.046	895.479	927.163

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

12.5	861.294	846.286	841.700	846.286	861.294	892.144	924.662
13.0	856.709	841.284	836.698	841.284	856.709	888.809	922.160
13.5	852.123	836.281	831.695	836.281	852.123	885.057	919.659
14.0	847.954	831.278	826.276	831.278	847.954	881.722	917.158
14.5	843.368	826.276	821.273	826.276	843.368	877.970	914.239
15.0	838.782	820.856	815.853	820.856	838.782	873.801	911.321
15.5	834.196	816.270	810.434	816.270	834.196	870.049	908.403
16.0	829.194	810.851	805.014	810.851	829.194	865.880	905.485
16.5	824.191	805.848	799.595	805.848	824.191	862.128	902.566
17.0	819.605	800.428	794.175	800.428	819.605	857.542	899.231
17.5	814.603	795.426	788.755	795.426	814.603	853.373	895.896
18.0	809.600	790.006	783.336	790.006	809.600	849.204	892.978
18.5	805.014	784.587	777.499	784.587	805.014	845.036	889.226
19.0	799.595	779.167	772.080	779.167	799.595	840.450	885.891
19.5	794.592	773.331	766.243	773.331	794.592	835.864	882.139
20.0	789.172	767.911	760.824	767.911	789.172	831.278	878.387
20.5	784.170	762.075	754.987	762.075	784.170	826.692	874.635
21.0	779.167	756.238	749.151	756.238	779.167	822.107	870.883
21.5	773.747	750.819	743.731	750.819	773.747	817.521	866.714
22.0	768.328	744.982	737.895	744.982	768.328	812.518	862.962
22.5	763.325	739.146	732.058	739.146	763.325	807.932	858.793
23.0	757.906	733.726	726.222	733.726	757.906	803.347	854.624
23.5	752.903	727.890	720.386	727.890	752.903	797.927	850.038
24.0	747.483	722.470	714.549	722.470	747.483	792.924	845.869
24.5	742.064	717.050	708.296	717.050	742.064	787.922	841.284
25.0	736.644	711.214	702.876	711.214	736.644	782.919	836.698
25.5	731.642	705.378	697.040	705.378	731.642	778.333	832.112
26.0	726.222	699.958	690.786	699.958	726.222	772.497	827.109
26.5	720.386	694.121	684.950	694.121	720.386	767.494	822.524
27.0	714.966	688.702	679.530	688.702	714.966	762.075	817.521
27.5	709.546	682.865	673.694	682.865	709.546	757.072	812.518
28.0	704.127	677.446	668.274	677.446	704.127	751.652	807.516
28.5	698.290	672.026	662.438	672.026	698.290	746.233	802.096
29.0	692.454	665.773	656.601	665.773	692.454	740.396	797.093
29.5	686.617	660.353	651.182	660.353	686.617	734.977	791.257
30.0	680.781	654.517	645.345	654.517	680.781	729.557	785.837
30.5	674.945	648.264	639.926	648.264	674.945	723.721	780.418
31.0	668.691	642.427	634.089	642.427	668.691	717.884	774.998
31.5	662.438	636.174	628.253	636.174	662.438	712.465	769.579
32.0	656.601	630.337	622.000	630.337	656.601	706.211	763.742
32.5	650.348	624.501	616.580	624.501	650.348	700.375	757.906
33.0	644.095	618.248	610.327	618.248	644.095	694.121	752.486
33.5	638.258	611.994	604.073	611.994	638.258	687.868	747.066
34.0	632.005	605.741	597.820	605.741	632.005	682.032	740.813
34.5	625.752	599.488	591.567	599.488	625.752	675.778	735.394
35.0	619.498	592.817	585.313	592.817	619.498	669.942	729.140
35.5	613.245	586.564	578.643	586.564	613.245	663.689	723.304
36.0	606.992	580.311	572.390	580.311	606.992	657.018	717.467
36.5	600.738	573.640	565.719	573.640	600.738	651.182	711.214
37.0	594.902	567.387	559.049	567.387	594.902	644.512	705.378
37.5	588.231	560.717	551.962	560.717	588.231	638.258	699.124
38.0	581.978	554.463	545.292	554.463	581.978	631.588	692.871
38.5	575.725	547.793	538.622	547.793	575.725	625.335	686.617
39.0	569.055	541.540	531.951	541.540	569.055	619.081	679.947
39.5	562.801	534.870	525.281	534.870	562.801	612.411	673.694
40.0	556.131	528.199	518.611	528.199	556.131	606.158	667.441

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

40.5	549.878	521.529	512.358	521.529	549.878	599.904	660.770
41.0	543.207	515.276	505.687	515.276	543.207	593.234	654.100
41.5	536.954	509.022	499.434	509.022	536.954	586.564	647.430
42.0	530.701	502.769	493.181	502.769	530.701	579.894	640.760
42.5	524.447	496.516	487.344	496.516	524.447	573.640	634.506
43.0	518.194	490.679	481.508	490.679	518.194	566.970	627.836
43.5	511.941	484.843	475.671	484.843	511.941	560.300	621.166
44.0	505.687	479.006	470.252	479.006	505.687	554.047	614.496
44.5	499.434	472.753	464.415	472.753	499.434	547.376	607.825
45.0	493.181	466.917	458.996	466.917	493.181	540.706	601.155
45.5	486.927	461.497	453.159	461.497	486.927	534.036	594.485
46.0	481.091	455.661	447.740	455.661	481.091	527.782	587.815
46.5	474.837	449.824	441.903	449.824	474.837	521.529	581.144
47.0	468.584	443.988	436.067	443.988	468.584	514.859	574.474
47.5	462.748	438.151	430.230	438.151	462.748	508.189	567.804
48.0	456.911	432.315	424.811	432.315	456.911	501.935	561.551
48.5	450.658	426.478	418.974	426.478	450.658	495.682	554.880
49.0	444.405	420.642	412.888	420.642	444.405	489.012	548.210
49.5	438.151	414.597	406.926	414.597	438.151	482.758	541.123
50.0	432.315	408.594	401.215	408.594	432.315	476.505	534.453
50.5	426.061	402.716	395.253	402.716	426.061	469.835	527.366
51.0	420.225	396.879	389.292	396.879	420.225	463.581	520.695
51.5	414.138	390.876	383.414	390.876	414.138	457.328	513.608
52.0	407.968	384.998	377.327	384.998	407.968	450.658	506.521
52.5	401.923	378.995	371.532	378.995	401.923	443.988	499.851
53.0	395.879	373.116	365.529	373.116	395.879	437.317	492.764
53.5	389.709	367.280	359.651	367.280	389.709	430.647	485.260
54.0	383.497	361.152	353.648	361.152	383.497	423.977	478.173
54.5	377.535	355.190	347.853	355.190	377.535	417.724	471.085
55.0	371.157	349.145	341.891	349.145	371.157	410.928	463.581
55.5	365.070	343.142	336.180	343.142	365.070	404.341	456.077
56.0	358.650	337.306	330.135	337.306	358.650	397.755	448.573
56.5	352.564	331.302	324.340	331.302	352.564	391.251	441.486
57.0	346.144	325.382	318.295	325.382	346.144	384.372	434.399
57.5	340.140	319.254	313.168	319.254	340.140	377.827	427.312
58.0	333.887	314.460	308.457	314.460	333.887	370.949	420.225
58.5	327.717	309.082	302.662	309.082	327.717	364.320	412.804
59.0	321.464	303.079	296.784	303.079	321.464	357.358	405.467
59.5	315.919	297.076	291.114	297.076	315.919	350.604	398.255
60.0	310.666	291.114	285.194	291.114	310.666	343.934	391.043
60.5	304.371	285.319	279.358	285.319	304.371	337.180	383.622
61.0	298.201	279.483	273.730	279.483	298.201	330.302	376.368
61.5	291.948	273.813	267.893	273.813	291.948	323.632	368.822
62.0	285.695	268.060	262.224	268.060	285.695	317.378	361.569
62.5	279.525	262.349	256.554	262.349	279.525	310.500	354.356
63.0	273.271	256.554	250.968	256.554	273.271	304.288	347.102
63.5	267.018	250.718	245.298	250.718	267.018	297.451	339.890
64.0	260.765	244.964	239.670	244.964	260.765	290.530	332.261
64.5	254.636	239.128	233.959	239.128	254.636	283.652	325.341
65.0	248.425	233.333	228.164	233.333	248.425	276.773	317.878
65.5	242.296	227.538	222.577	227.538	242.296	270.020	310.291
66.0	236.251	221.785	216.407	221.785	236.251	263.308	302.954
66.5	230.207	215.991	210.738	215.991	230.207	256.471	296.033
67.0	224.162	210.279	205.235	210.279	224.162	249.592	288.363
67.5	218.158	204.610	199.774	204.610	218.158	242.713	280.734
68.0	212.114	198.856	194.187	198.856	212.114	235.793	273.021

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

68.5	205.985	193.228	188.684	193.228	205.985	228.998	265.392
69.0	199.857	187.600	183.098	187.600	199.857	222.119	257.763
69.5	193.770	181.972	177.595	181.972	193.770	215.199	250.176
70.0	187.642	176.344	172.092	176.344	187.642	208.362	242.588
70.5	181.639	170.716	166.589	170.716	181.639	201.525	235.042
71.0	175.594	165.130	161.045	165.130	175.594	194.688	227.497
71.5	169.591	159.585	155.625	159.585	169.591	187.851	219.993
72.0	163.629	154.082	150.164	154.082	163.629	181.097	212.530
72.5	157.709	148.580	144.786	148.580	157.709	174.302	205.110
73.0	151.748	143.118	139.283	143.118	151.748	167.590	197.773
73.5	145.870	137.615	133.863	137.615	145.870	160.878	190.394
74.0	139.992	132.154	128.527	132.154	139.992	154.333	183.015
74.5	134.155	126.693	123.191	126.693	134.155	147.871	175.636
75.0	128.444	121.357	118.021	121.357	128.444	141.367	168.298
75.5	122.774	116.020	112.852	116.020	122.774	135.114	161.045
76.0	117.188	110.726	107.808	110.726	117.188	128.819	153.791
76.5	111.643	105.515	102.722	105.515	111.643	122.649	146.620
77.0	106.182	100.345	97.719	100.345	106.182	116.479	139.533
77.5	100.762	95.259	92.758	95.259	100.762	110.309	132.529
78.0	95.384	90.173	87.797	90.173	95.384	104.389	125.567
78.5	90.007	85.129	82.919	85.129	90.007	98.386	118.689
79.0	84.795	80.085	78.000	80.085	84.795	92.466	111.852
79.5	79.543	75.165	73.206	75.165	79.543	86.713	105.098
80.0	74.457	70.246	68.370	70.246	74.457	81.043	98.511
80.5	69.454	65.410	63.617	65.410	69.454	75.457	92.049
81.0	64.493	60.657	58.948	60.657	64.493	69.996	85.796
81.5	59.615	55.947	54.362	55.947	59.615	64.660	79.668
82.0	54.821	51.361	49.860	51.361	54.821	59.407	73.706
82.5	50.068	46.775	45.358	46.775	50.068	54.279	67.911
83.0	45.399	42.314	40.897	42.314	45.399	49.235	62.283
83.5	40.772	37.895	36.603	37.895	40.772	44.399	56.822
84.0	36.269	33.560	32.226	33.560	36.269	39.646	51.444
84.5	31.850	29.307	28.057	29.307	31.850	35.060	46.275
85.0	27.598	25.138	23.971	25.138	27.598	30.641	41.272
85.5	23.388	21.095	20.011	21.095	23.388	26.389	36.478
86.0	19.344	17.134	16.134	17.134	19.344	22.304	31.892
86.5	15.383	13.299	12.382	13.299	15.383	18.301	27.431
87.0	11.548	9.588	8.713	9.588	11.548	14.383	23.012
87.5	7.838	6.087	5.461	6.087	7.838	10.589	18.802
88.0	4.419	3.085	2.543	3.085	4.419	6.879	14.716
88.5	1.751	0.750	0.500	0.750	1.751	3.335	10.672
89.0	0.459	0.292	0.250	0.292	0.459	1.084	6.754
89.5	0.250	0.250	0.250	0.250	0.250	0.334	3.877
90.0	0.250	0.250	0.208	0.250	0.250	0.292	1.918
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

CANDELA TABULATION - (Cont.)

152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WD-4-00-P7-8TW-FASY-POE 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	347.42	N.A.	13.10
0-30	734.46	N.A.	27.80
0-40	1194.28	N.A.	45.10
0-60	2082.37	N.A.	78.70
0-80	2590.33	N.A.	97.90
0-90	2645.67	N.A.	100.00
10-90	2555.54	N.A.	96.60
20-40	846.86	N.A.	32.00
20-50	1315.3	N.A.	49.70
40-70	1208.36	N.A.	45.70
60-80	507.96	N.A.	19.20
70-80	187.69	N.A.	7.10
80-90	55.34	N.A.	2.10
90-110	0.14	N.A.	0.00
90-120	0.14	N.A.	0.00
90-130	0.14	N.A.	0.00
90-150	0.14	N.A.	0.00
90-180	0.14	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2645.81	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.13
10-20	257.29
20-30	387.04
30-40	459.82
40-50	468.44
50-60	419.65
60-70	320.26
70-80	187.69
80-90	55.34
90-100	0.14
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WD-4-00-P7-8TW-FASY-POE 4000K_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WD-4-00-P7-8TW-FASY-POE 4000K_.IES

UGR TABLE - CORRECTED

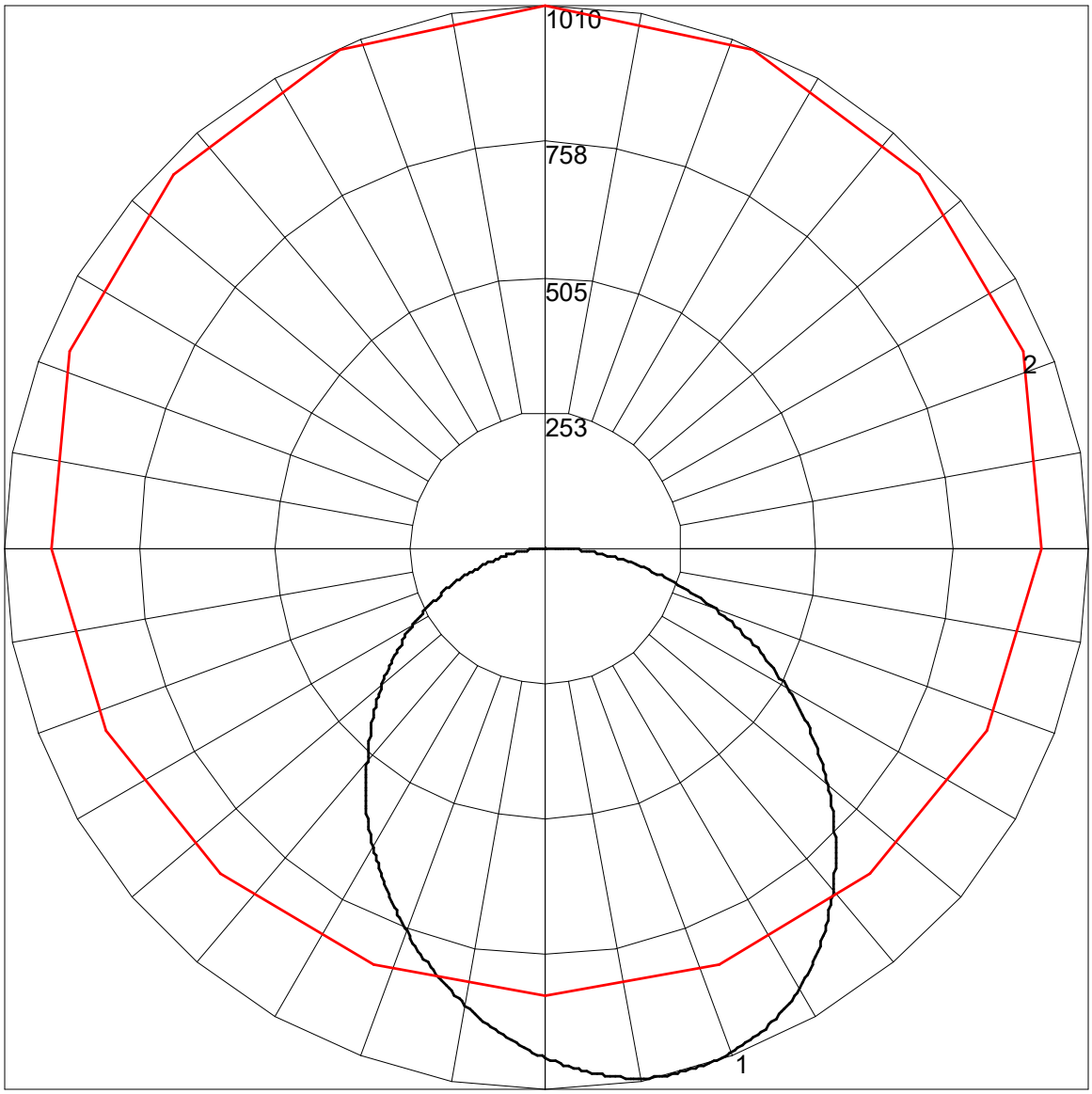
Reflectances											
Ceiling Cavity		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor Cavity		20	20	20	20	20	20	20	20	20	20
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.7	20.3	19.0	20.6	20.9	20.4	22.0	20.8	22.3	22.7
	3H	20.5	21.9	20.8	22.3	22.6	22.3	23.8	22.7	24.2	24.5
	4H	21.1	22.5	21.5	22.9	23.2	23.1	24.5	23.5	24.9	25.3
	6H	21.6	22.9	22.0	23.3	23.6	23.8	25.1	24.2	25.4	25.8
	8H	21.7	23.0	22.1	23.4	23.8	24.0	25.2	24.4	25.6	26.0
	12H	21.8	23.0	22.3	23.4	23.8	24.2	25.4	24.6	25.8	26.2
4H	2H	19.4	20.7	19.7	21.1	21.5	21.0	22.4	21.4	22.7	23.1
	3H	21.4	22.6	21.8	22.9	23.3	23.2	24.4	23.6	24.7	25.1
	4H	22.2	23.2	22.6	23.6	24.1	24.1	25.2	24.5	25.6	26.0
	6H	22.8	23.7	23.2	24.1	24.6	24.9	25.8	25.4	26.3	26.7
	8H	22.9	23.8	23.4	24.3	24.7	25.2	26.1	25.7	26.5	27.0
	12H	23.1	23.9	23.6	24.3	24.8	25.4	26.2	25.9	26.7	27.2
8H	4H	22.5	23.4	23.0	23.8	24.3	24.4	25.3	24.9	25.7	26.2
	6H	23.3	24.0	23.8	24.5	24.9	25.4	26.1	25.8	26.6	27.0
	8H	23.5	24.2	24.0	24.7	25.2	25.7	26.4	26.2	26.9	27.4
	12H	23.7	24.3	24.2	24.8	25.4	26.1	26.7	26.6	27.2	27.7
12H	4H	22.6	23.4	23.1	23.8	24.3	24.4	25.2	24.9	25.7	26.2
	6H	23.3	24.0	23.9	24.5	25.0	25.4	26.1	25.9	26.5	27.1
	8H	23.7	24.2	24.2	24.7	25.3	25.9	26.4	26.4	26.9	27.5

Maximum UGR = 27.7

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MX4WD-4-00-P7-8TW-FASY-POE 4000K_.IES

POLAR GRAPH



Maximum Candela = 1010.124 Located At Horizontal Angle = 90, Vertical Angle = 13
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (13) (Through Max. Cd.)

Photometric Toolbox® Copyright 2002-2019 by Lighting Analysts, Inc.
Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.