

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P192723

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-AFL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32381.2 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

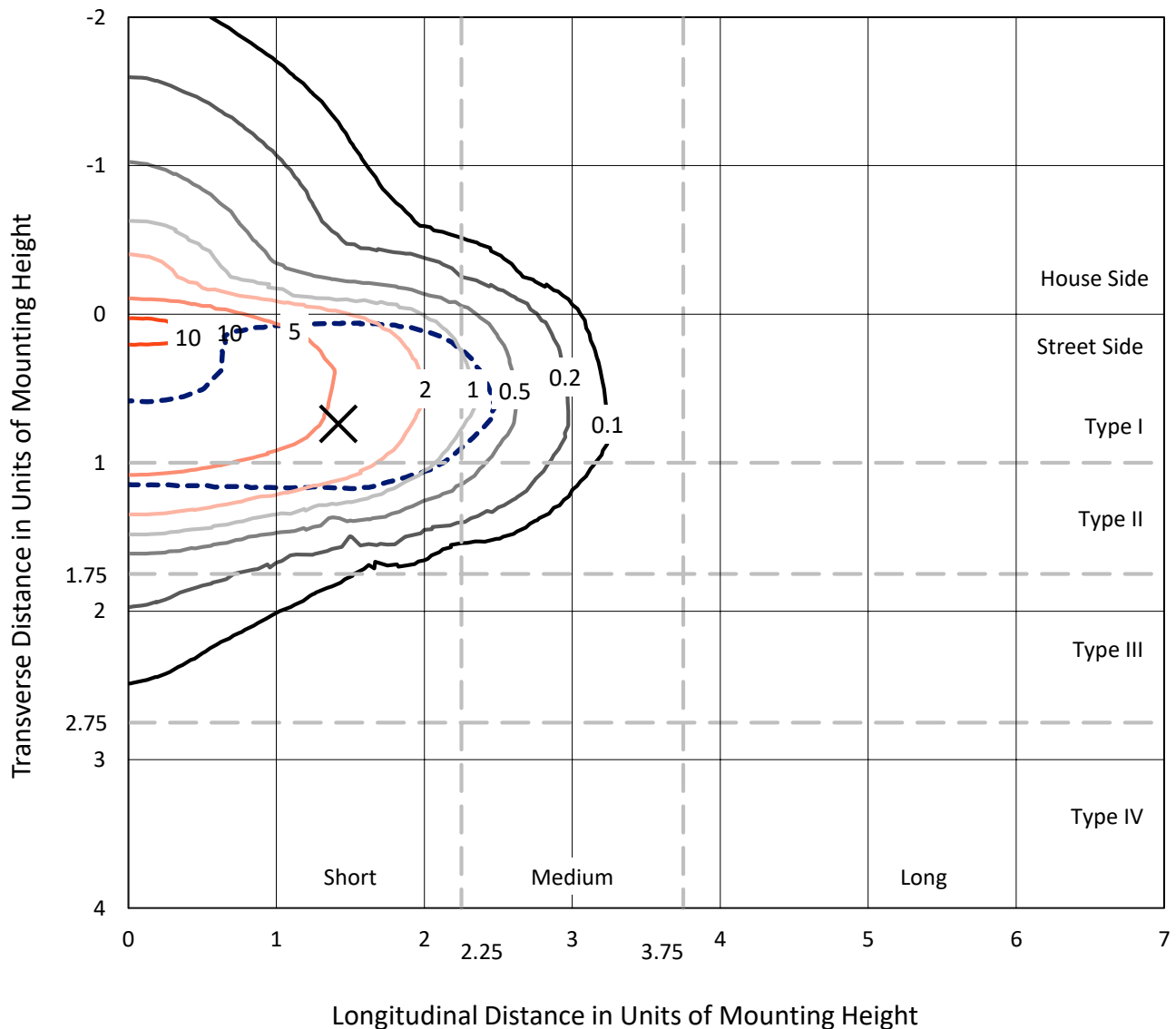


REPORT NUMBER: P192723

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

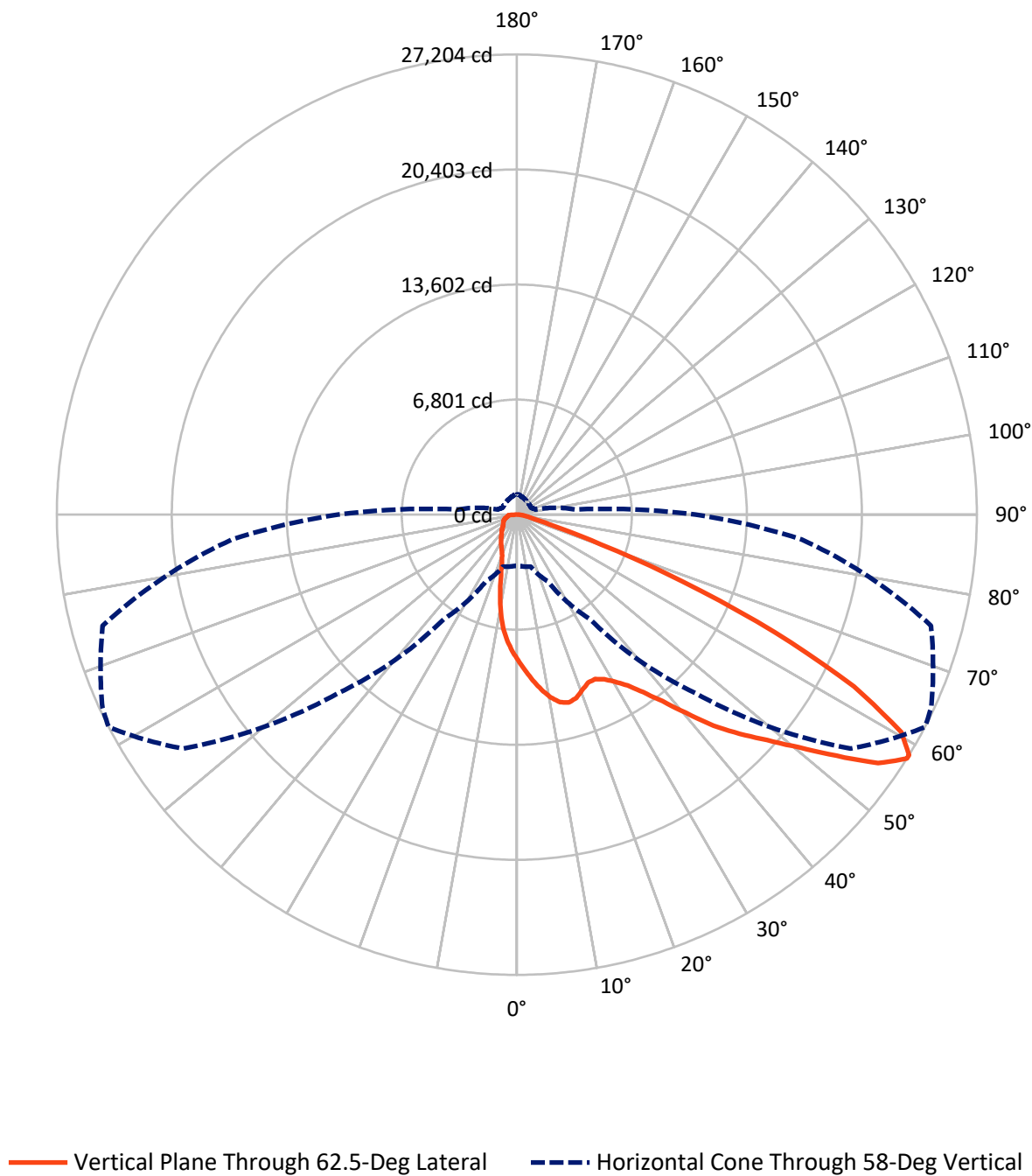


Based on 30 foot mounting height. Maximum calculated value = 11.6 fc
Type II - Short - Full Cutoff

REPORT NUMBER: P192723

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P192723

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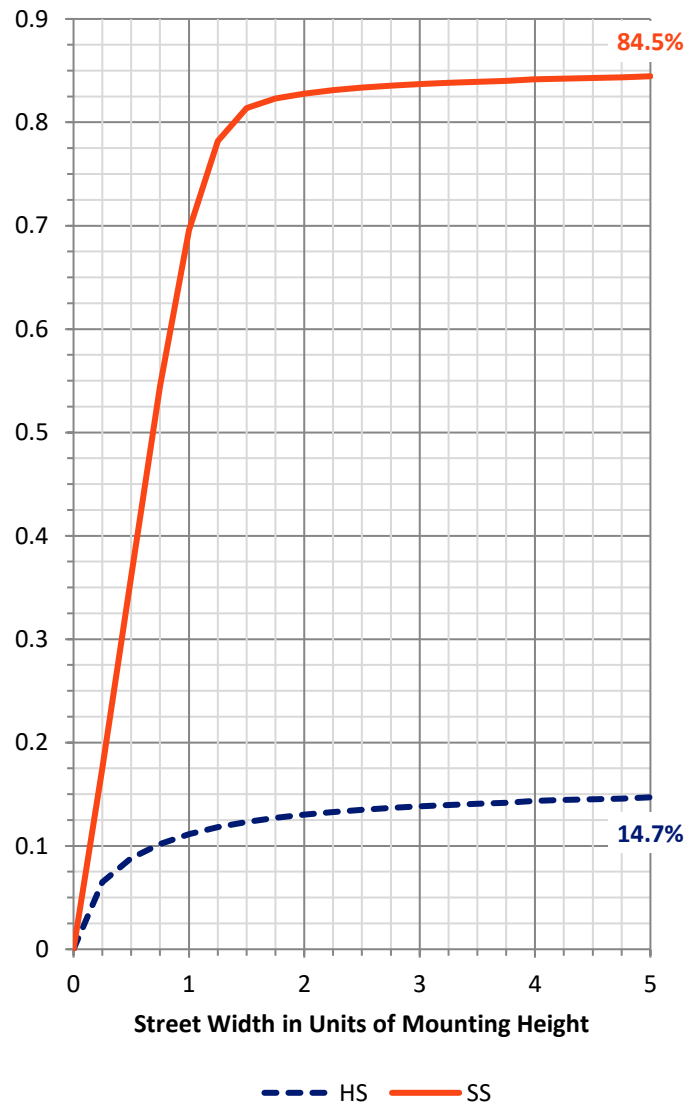
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4938.2	0.0	4938.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27442.9	0.0	27442.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	32381.2	0.0	32381.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.3	2.4
10°-20°	1966.4	6.1
20°-30°	3178.7	9.8
30°-40°	5046.2	15.6
40°-50°	7383.6	22.8
50°-60°	7722.6	23.8
60°-70°	4562.5	14.1
70°-80°	1285.3	4.0
80°-90°	466.6	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32381.2	100.0
0°-180°	32381.2	100.0

Coefficient of Utilization



REPORT NUMBER: P192723

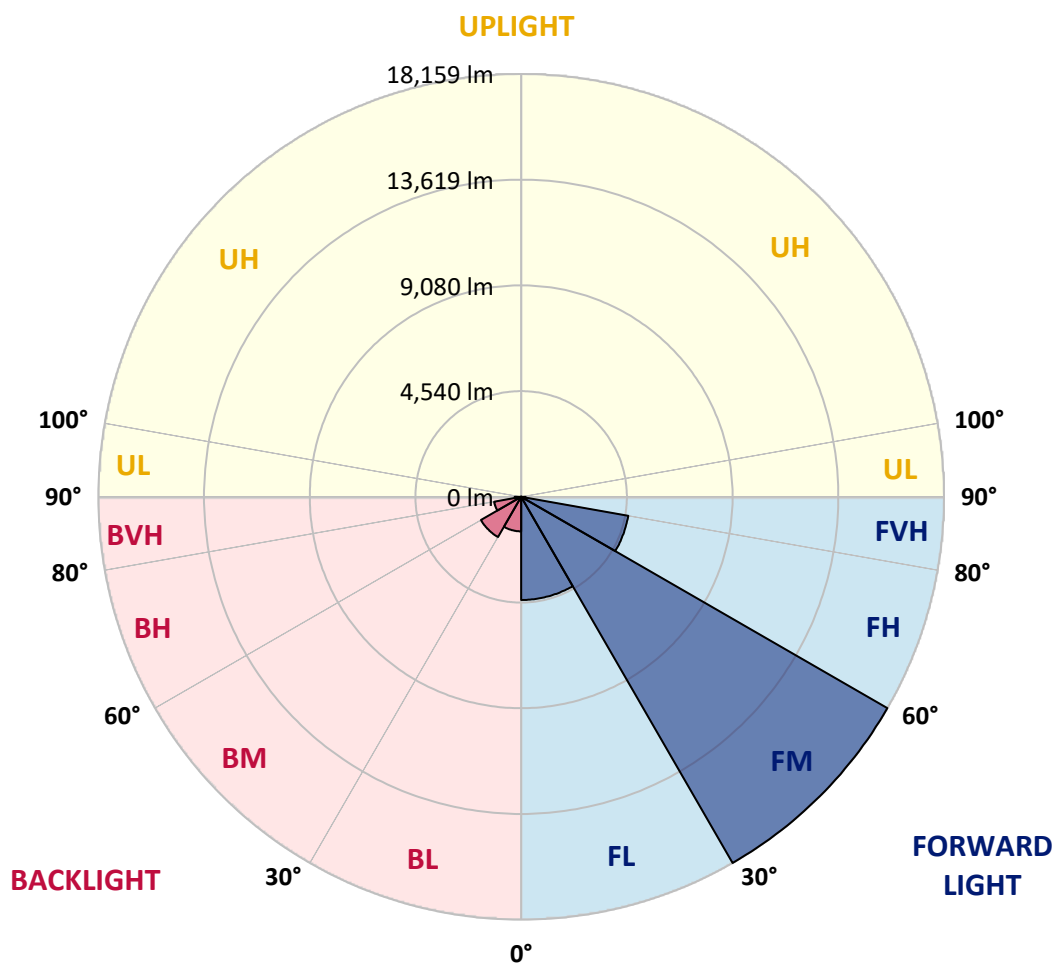
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4430.1	13.7			
FM	(30°-60°)	18159.2	56.1			
FH	(60°-80°)	4669.5	14.4			G2/5000
FVH	(80°-90°)	184.1	0.6			G2/225
BL	(0°-30°)	1484.2	4.6	B3/2500		
BM	(30°-60°)	1993.2	6.2	B2/2500		
BH	(60°-80°)	1178.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	282.5	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P192723

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4
2.5°	9828.9	9749.5	9699.3	9655.0	9597.2	9473.6	9307.4	9202.2	9148.9	8967.4	8752.3
5°	10792.5	10722.3	10670.6	10611.0	10507.4	10313.7	10045.4	9831.9	9726.7	9363.8	8933.8
7.5°	10566.9	10595.9	10685.8	10842.9	10977.1	10951.2	10711.7	10440.3	10301.5	9796.8	9144.2
10°	9206.7	9257.1	9412.5	9780.1	10374.7	10984.7	11170.6	10983.2	10842.9	10225.3	9360.8
12.5°	8933.8	8932.3	8944.5	9042.1	9395.9	10254.3	11186.0	11375.0	11291.2	10633.9	9581.8
15°	9045.1	9048.2	9039.0	9080.2	9190.1	9530.0	10719.3	11526.0	11585.5	11045.7	9810.6
17.5°	9337.9	9330.3	9295.2	9295.2	9334.8	9467.6	10170.4	11385.7	11660.1	11410.1	10011.9
20°	9828.9	9793.8	9700.8	9615.4	9572.6	9644.4	9944.8	11062.4	11530.5	11728.8	10178.0
22.5°	10423.6	10396.1	10245.1	10062.1	9914.3	9912.8	10060.6	10780.3	11306.3	12029.1	10318.3
25°	11192.1	11147.8	10923.6	10630.9	10371.7	10272.5	10313.7	10766.6	11184.5	12355.5	10443.3
27.5°	12094.7	12013.9	11748.5	11326.3	10945.0	10745.3	10685.8	11015.2	11295.8	12759.6	10617.2
30°	13189.6	13096.5	12756.4	12206.0	11667.8	11339.9	11213.4	11455.9	11664.7	13252.0	10896.2
32.5°	14435.4	14301.1	13907.7	13300.7	12593.3	12093.2	11887.3	12038.3	12204.5	13845.3	11245.4
35°	16156.8	15996.6	15428.0	14590.8	13791.8	13104.1	12774.8	12884.5	13046.2	14729.6	11750.1
37.5°	17330.9	17259.2	16881.1	16094.2	15225.2	14433.8	13924.4	13988.5	14080.0	15835.1	12396.7
40°	17320.3	17349.2	17356.8	17364.5	16772.8	16015.0	15467.7	15400.5	15382.2	17048.9	13131.6
42.5°	16452.6	16571.6	16955.7	17735.0	18094.8	17747.2	17245.5	17051.9	16955.7	18479.0	13910.8
45°	15124.5	15188.5	15908.2	17430.0	18771.9	19462.6	19082.9	18472.9	18299.2	19793.4	14557.2
47.5°	14439.8	14509.9	14962.8	16621.8	18764.1	20848.7	21068.1	19906.3	19595.2	20937.1	15115.4
50°	12809.9	12956.2	13526.6	15216.0	18079.5	21486.0	23143.4	21614.0	20970.5	22050.1	15675.0
52.5°	9816.6	10042.3	10681.1	12904.4	16342.8	21170.3	24803.9	23684.6	22775.9	23202.9	16155.3
55°	6192.2	6360.0	6896.7	9113.8	13073.6	19528.1	25433.7	25924.6	25116.5	24294.7	16571.6
57.5°	3366.8	3441.4	3642.7	5031.8	8503.7	15897.6	24515.7	27199.4	26863.9	25221.7	16885.7
58°	3013.1	3063.3	3188.4	4361.0	7541.6	14904.9	24108.6	27203.9	27036.2	25357.4	16910.0
60°	2235.3	2209.4	2098.1	2488.5	4197.7	10297.0	21647.5	26115.2	26607.8	25523.6	16791.1
62.5°	1963.9	1901.4	1674.2	1648.2	2041.7	4743.6	16563.9	22370.4	23533.8	24575.2	16068.3
65°	1845.1	1777.8	1485.2	1390.7	1473.0	2006.6	9757.2	16777.5	18236.6	21699.4	14220.3
67.5°	1756.6	1669.7	1364.6	1235.0	1241.1	1326.6	3911.2	10566.9	12209.0	16475.4	11060.9
70°	1671.2	1576.6	1262.5	1113.2	1078.1	1049.1	1555.3	5289.6	6779.2	10406.7	7052.2
72.5°	1579.7	1486.7	1172.6	1017.1	948.5	852.3	1015.6	2163.7	3022.1	4923.6	3199.0
75°	1447.0	1363.1	1082.6	931.7	834.0	706.1	767.0	1129.8	1355.6	1960.8	1541.5
77.5°	1283.9	1215.3	982.0	861.5	739.5	573.3	590.1	783.7	869.1	1122.2	916.3
80°	922.4	947.0	873.7	774.6	658.8	465.1	452.9	571.8	617.6	721.2	596.2
82.5°	648.0	661.8	722.8	632.8	544.3	365.9	333.9	402.5	430.1	474.1	321.8
85°	446.8	431.5	495.6	440.7	393.5	243.9	228.7	272.9	289.7	294.2	166.2
87.5°	268.3	268.3	286.7	236.3	212.0	126.5	123.5	155.4	166.2	158.5	91.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P192723

CATALOG NUMBER: GLEON-AF-05-LED-E1-AFL-7030-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4	8601.4
2.5°	8624.3	8516.0	8285.7	8101.2	7868.0	7625.5	7489.8	7345.0	7245.8	7174.2	7288.5
5°	8689.8	8468.8	7993.0	7541.6	7043.1	6524.6	6131.2	5765.3	5510.6	5352.1	5501.5
7.5°	8793.5	8453.5	7695.6	6924.1	6029.0	5166.0	4394.5	3911.2	3629.0	3490.3	3577.1
10°	8912.5	8429.2	7346.5	6087.1	4806.2	3718.9	3142.7	2947.5	2883.4	2857.4	2869.7
12.5°	9011.6	8377.2	6918.0	5074.5	3609.2	2936.8	2770.6	2766.0	2779.7	2782.8	2787.3
15°	9081.7	8301.0	6282.2	4019.3	2886.4	2676.0	2666.9	2694.4	2720.2	2730.9	2737.1
17.5°	9128.9	8143.9	5564.0	3177.7	2586.0	2549.4	2570.8	2605.9	2633.3	2640.9	2647.1
20°	9124.4	7913.7	4708.6	2650.1	2423.0	2423.0	2459.5	2487.0	2488.5	2479.3	2483.9
22.5°	9077.1	7598.1	3879.1	2369.5	2278.0	2304.0	2340.6	2314.6	2207.9	2137.7	2142.3
25°	8997.8	7221.5	3168.5	2191.0	2143.8	2189.7	2178.9	1983.7	1831.3	1762.7	1762.7
27.5°	8927.7	6776.3	2622.7	2035.6	2009.8	2066.1	1877.1	1700.2	1636.1	1604.0	1593.4
30°	8877.5	6295.8	2258.3	1886.2	1883.1	1842.0	1628.5	1579.7	1569.1	1543.1	1534.0
32.5°	8889.6	5809.6	2024.9	1755.0	1765.7	1576.6	1509.5	1520.3	1511.0	1483.6	1471.4
35°	8990.2	5347.4	1872.4	1636.1	1604.0	1424.2	1439.4	1459.2	1456.2	1418.0	1405.8
37.5°	9170.1	4909.9	1771.8	1537.0	1399.7	1347.9	1372.3	1402.8	1395.2	1369.2	1360.2
40°	9359.2	4498.2	1689.4	1459.2	1279.3	1296.1	1317.4	1334.2	1341.8	1349.5	1343.4
42.5°	9543.7	4068.2	1588.8	1380.0	1228.9	1247.3	1256.5	1273.2	1314.4	1343.4	1341.8
45°	9653.5	3664.1	1485.2	1267.1	1189.4	1200.0	1193.8	1227.4	1277.8	1325.1	1326.6
47.5°	9775.5	3350.0	1402.8	1163.4	1151.3	1158.8	1140.5	1174.1	1219.9	1277.8	1283.9
50°	9923.4	3162.4	1337.3	1081.1	1099.3	1099.3	1094.8	1125.3	1189.4	1256.5	1268.6
52.5°	10091.0	3125.8	1282.3	1021.6	1047.6	1046.0	1050.6	1096.3	1166.5	1232.0	1242.8
55°	10295.5	3225.0	1222.9	977.5	997.2	1003.3	1018.6	1070.4	1129.8	1204.6	1209.2
57.5°	10533.3	3426.3	1175.6	942.4	951.4	971.4	995.7	1043.0	1107.1	1189.4	1193.8
58°	10573.0	3468.9	1168.0	939.3	942.4	965.2	992.6	1038.4	1102.4	1192.3	1196.9
60°	10574.4	3610.7	1151.3	925.5	907.3	945.4	975.9	1021.6	1094.8	1203.1	1213.8
62.5°	10199.4	3609.2	1139.0	905.8	870.7	917.9	953.0	1006.4	1087.1	1228.9	1250.4
65°	8981.1	3279.9	1081.1	875.2	841.8	893.5	933.2	995.7	1108.6	1341.8	1355.6
67.5°	7024.8	2688.3	972.9	832.5	803.6	869.1	920.9	994.1	1131.4	1367.7	1376.8
70°	4644.5	2011.3	853.9	783.7	763.9	840.2	927.1	1046.0	1105.4	1312.9	1288.5
72.5°	2410.7	1411.9	757.8	722.8	718.2	814.2	1015.6	1039.9	1079.6	1235.0	1204.6
75°	1265.5	980.5	673.9	655.7	663.3	808.2	1198.5	1012.5	1046.0	1181.7	1239.6
77.5°	774.6	791.4	602.3	594.7	609.8	789.8	1196.9	977.5	997.2	1087.1	1151.3
80°	518.4	641.9	547.4	548.9	559.6	722.8	1075.0	922.4	937.8	1027.7	1093.2
82.5°	327.8	379.6	497.1	523.1	509.2	596.2	913.4	840.2	861.5	1175.6	1242.8
85°	166.2	237.8	431.5	503.1	459.0	417.8	741.1	736.5	747.2	847.8	885.9
87.5°	76.3	131.1	336.9	439.1	346.2	260.7	538.2	545.9	588.6	602.3	602.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)