

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: P193819

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SLL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3612 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

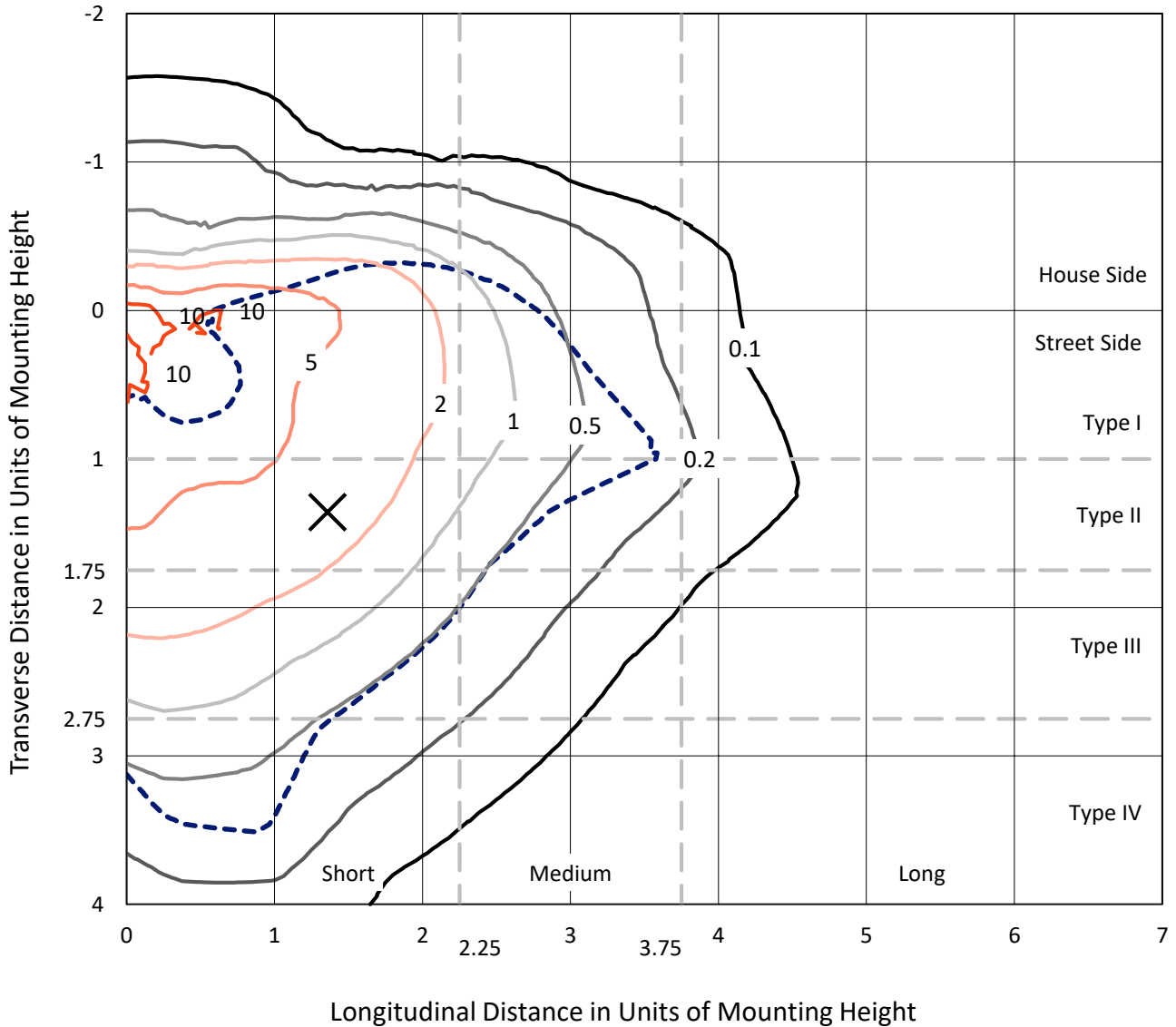
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

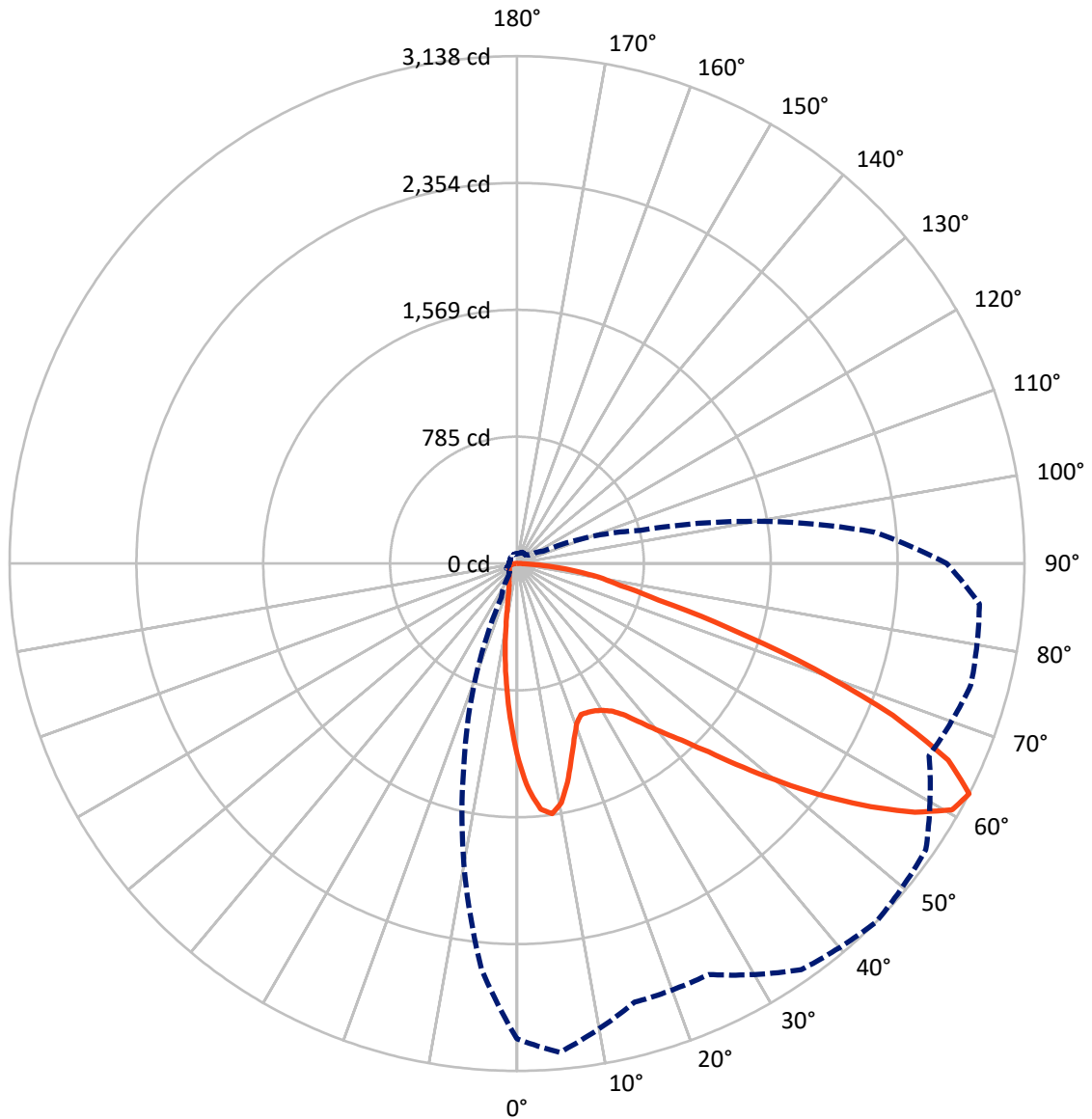
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	597.7	0.0	597.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3014.3	0.0	3014.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	3612.0	0.0	3612.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	2.5
10°-20°	162.9	4.5
20°-30°	237.5	6.6
30°-40°	365.8	10.1
40°-50°	538.4	14.9
50°-60°	789.6	21.9
60°-70°	882.7	24.4
70°-80°	432.2	12.0
80°-90°	114.1	3.2
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°	3612.0	100.0
0°-180°	3612.0	100.0



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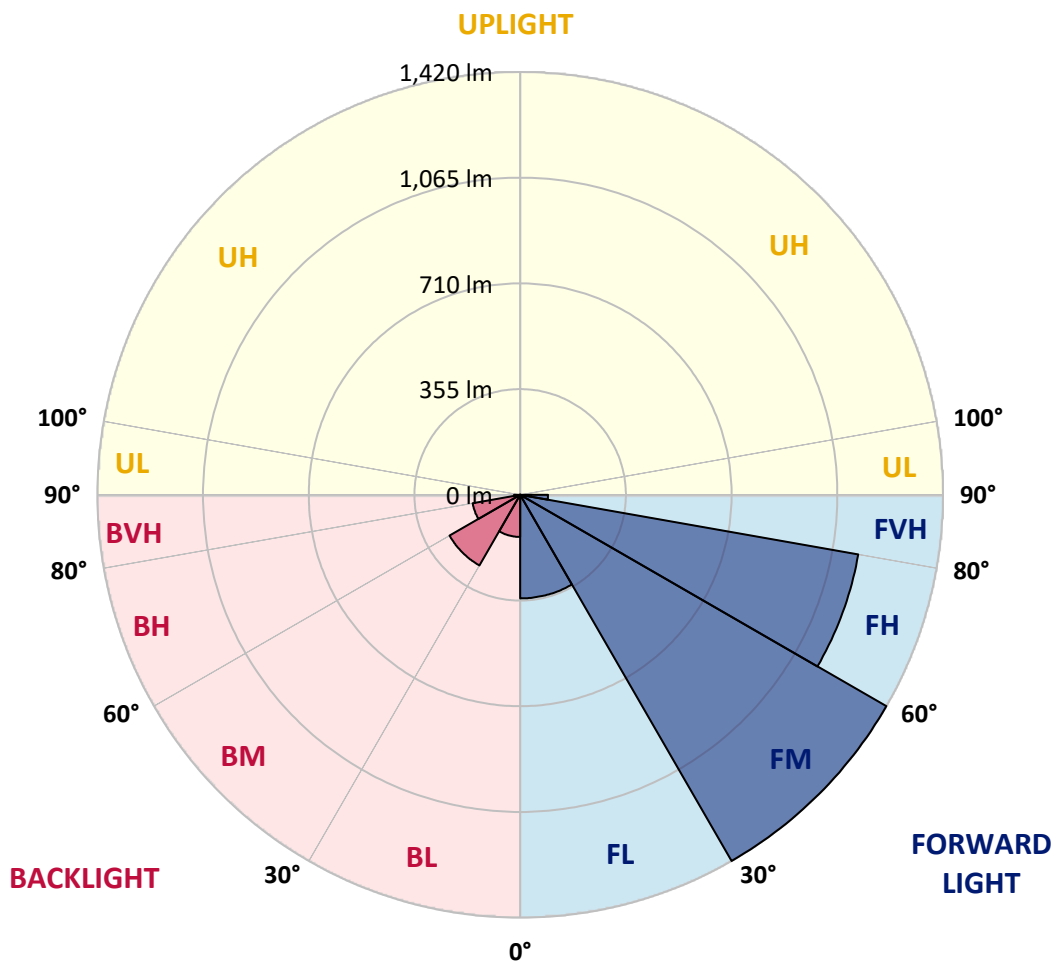
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.8	9.6			
FM	(30°-60°)	1419.9	39.3			
FH	(60°-80°)	1152.8	31.9			G1/1800
FVH	(80°-90°)	93.7	2.6			G1/100
BL	(0°-30°)	141.4	3.9	B1/500		
BM	(30°-60°)	273.9	7.6	B1/1000		
BH	(60°-80°)	162.0	4.5	B1/500		G1/500
BVH	(80°-90°)	20.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1268.0	1288.2	1327.7	1357.3	1393.3	1401.6	1413.1	1401.8	1381.8	1355.1	1346.4
5°	1192.3	1235.6	1331.5	1415.9	1491.0	1525.9	1535.6	1506.8	1448.7	1372.2	1325.6
7.5°	1071.0	1132.6	1262.4	1386.7	1497.3	1562.6	1561.1	1494.1	1387.1	1262.6	1187.8
10°	966.4	1036.7	1185.6	1324.6	1441.9	1505.3	1480.8	1395.3	1267.6	1124.2	1043.0
12.5°	907.8	976.7	1127.8	1267.4	1365.5	1387.3	1368.6	1284.9	1164.5	1019.6	948.5
15°	897.7	973.3	1104.8	1218.3	1273.3	1254.3	1232.0	1194.5	1109.5	985.8	911.8
17.5°	941.6	1024.9	1131.2	1184.2	1174.9	1141.7	1135.3	1139.5	1119.1	1023.4	938.0
20°	1025.7	1125.8	1194.1	1168.1	1100.0	1054.3	1055.9	1119.7	1180.2	1118.5	1021.0
22.5°	1143.9	1258.1	1284.9	1176.6	1068.4	1014.2	1027.3	1130.6	1277.7	1257.5	1133.0
25°	1296.8	1400.8	1381.6	1207.6	1071.6	1019.2	1029.7	1168.3	1392.9	1396.4	1271.6
27.5°	1444.9	1541.4	1462.8	1248.7	1084.7	1030.9	1044.8	1227.7	1502.9	1547.4	1430.0
30°	1560.5	1627.6	1494.9	1286.2	1110.5	1053.7	1071.0	1284.1	1552.9	1649.2	1551.9
32.5°	1656.2	1704.4	1546.2	1332.7	1158.0	1089.7	1120.1	1352.6	1625.0	1746.1	1671.2
35°	1778.5	1792.2	1609.9	1384.5	1231.2	1152.2	1189.9	1419.7	1693.7	1844.0	1788.8
37.5°	1921.8	1904.2	1670.1	1455.4	1326.0	1250.1	1281.3	1493.3	1750.3	1955.0	1908.9
40°	2063.6	2021.1	1745.5	1565.4	1464.2	1365.5	1402.4	1572.0	1803.1	2066.2	2026.3
42.5°	2184.1	2121.2	1820.0	1686.3	1592.8	1492.7	1536.8	1651.2	1853.5	2161.1	2128.1
45°	2273.3	2195.0	1890.9	1802.5	1770.1	1661.9	1682.8	1741.9	1908.1	2240.3	2211.9
47.5°	2352.9	2269.3	1971.1	1919.6	1925.2	1881.9	1848.4	1847.6	1972.5	2305.0	2291.1
50°	2459.5	2372.4	2057.2	2040.4	2157.9	2129.1	2055.1	1970.9	2053.9	2378.5	2376.9
52.5°	2606.5	2535.6	2162.5	2170.4	2375.1	2394.0	2302.3	2119.0	2181.3	2513.3	2503.8
55°	2780.2	2738.9	2305.8	2319.9	2641.6	2655.1	2564.0	2304.2	2368.8	2708.5	2682.1
57.5°	2915.8	2907.1	2463.1	2499.4	2840.5	2901.3	2817.5	2518.7	2580.0	2872.9	2806.6
60°	2969.8	3012.1	2630.5	2680.5	3024.6	3091.9	3018.5	2707.1	2767.3	2941.0	2798.1
62.5°	2940.6	3035.1	2808.8	2804.6	3065.7	3138.2	3086.6	2812.0	2906.1	2870.7	2656.5
65°	2805.8	2952.3	2912.2	2772.6	2925.1	2931.1	2914.4	2765.1	2938.8	2648.5	2382.9
67.5°	2512.1	2723.0	2776.0	2498.6	2545.9	2507.2	2479.2	2508.6	2768.1	2315.6	2002.6
70°	2046.1	2363.4	2388.8	1998.5	1977.0	1951.0	1895.2	2056.6	2431.1	1897.8	1589.0
72.5°	1504.5	1838.0	1916.1	1465.7	1366.5	1371.8	1327.7	1549.9	1976.6	1409.8	1186.4
75°	1029.3	1330.9	1499.1	1022.8	903.6	905.8	900.3	1098.2	1574.4	980.7	887.7
77.5°	751.9	950.9	1130.6	687.6	667.5	655.2	652.3	768.4	1207.0	712.0	689.4
80°	603.4	702.5	759.5	476.5	512.5	511.5	495.0	528.4	788.3	520.8	515.7
82.5°	418.6	539.9	615.3	373.5	345.9	340.1	344.1	393.5	557.1	356.0	338.5
85°	220.8	358.6	609.4	331.0	205.3	163.8	203.7	322.3	482.7	188.6	165.2
87.5°	28.2	103.6	403.5	132.0	81.0	43.7	96.7	181.5	309.9	38.5	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1324.0	1297.6	1263.0	1231.1	1197.9	1164.9	1121.8	1094.8	1076.2	1072.6	1064.7
5°	1291.8	1204.0	1137.7	1080.3	1028.3	954.9	914.2	880.4	862.3	860.5	856.2
7.5°	1143.5	1022.4	932.8	851.6	777.9	718.6	653.1	622.5	610.0	612.9	615.9
10°	989.2	853.8	750.9	667.9	603.0	553.0	500.4	464.8	440.2	435.2	434.2
12.5°	876.4	727.9	628.0	569.5	519.2	472.2	416.4	374.5	342.5	331.6	324.2
15°	828.8	666.4	561.7	498.6	443.2	383.4	331.6	287.7	258.3	248.8	243.4
17.5°	838.9	649.3	516.0	435.2	364.4	302.0	236.7	199.2	181.5	176.9	176.9
20°	892.1	646.1	478.3	376.9	288.5	216.2	162.6	141.2	135.4	134.8	136.4
22.5°	966.8	657.2	450.1	326.2	224.2	157.9	126.7	118.7	116.2	116.8	118.5
25°	1078.0	694.7	429.7	281.2	175.9	129.3	113.0	108.2	107.0	108.6	110.8
27.5°	1209.8	732.3	417.0	247.2	148.5	118.1	107.4	102.5	103.2	105.2	107.2
30°	1325.6	763.1	396.9	223.0	140.0	118.7	107.4	100.7	99.9	100.3	100.9
32.5°	1429.4	783.9	373.5	199.9	120.7	105.4	100.3	99.3	94.9	93.3	93.5
35°	1519.0	783.9	359.4	186.4	108.2	93.5	85.2	80.2	78.0	78.2	80.4
37.5°	1605.3	768.2	352.4	178.9	101.5	89.0	81.6	77.2	74.3	73.7	74.1
40°	1681.6	745.4	344.5	175.7	96.3	86.2	79.2	75.7	72.5	71.5	71.7
42.5°	1742.7	726.9	335.8	171.6	93.1	84.2	77.6	74.5	70.9	69.9	69.7
45°	1808.8	720.8	324.2	163.2	94.7	84.4	77.2	73.9	70.3	69.1	68.7
47.5°	1896.0	740.0	312.3	153.3	98.1	85.4	77.8	73.9	70.1	69.1	68.7
50°	2005.8	785.3	297.2	138.8	94.7	88.2	77.6	73.3	70.1	69.1	68.3
52.5°	2146.8	846.4	277.4	122.1	92.7	94.9	77.2	72.1	69.1	67.7	66.3
55°	2318.1	896.5	253.8	108.4	88.2	93.1	76.6	70.7	67.5	65.5	64.3
57.5°	2443.6	914.6	223.4	99.5	81.8	90.1	75.8	68.9	65.5	63.9	62.3
60°	2418.8	879.6	197.8	93.9	78.0	81.4	75.3	67.3	63.7	62.5	61.2
62.5°	2220.1	788.3	181.3	91.3	75.7	74.3	75.8	65.7	62.1	61.0	60.6
65°	1922.0	653.4	174.7	90.7	73.7	70.1	70.5	63.9	60.4	59.4	59.0
67.5°	1585.5	527.4	169.0	92.7	71.1	67.1	65.1	61.6	58.6	57.6	56.8
70°	1250.3	438.6	166.4	91.5	67.9	64.1	61.9	59.0	56.4	55.4	54.8
72.5°	1006.9	370.5	165.0	90.3	63.7	60.2	58.2	55.6	52.8	52.4	51.8
75°	852.0	291.3	151.1	86.6	59.0	55.4	54.0	51.6	48.8	48.8	48.4
77.5°	657.2	210.7	125.7	76.6	54.0	50.0	48.8	47.1	43.9	44.5	44.3
80°	485.5	137.4	98.3	63.5	47.9	44.1	43.5	41.7	38.3	39.1	39.1
82.5°	332.6	90.1	70.7	52.0	40.9	37.3	37.3	35.5	31.8	32.2	33.4
85°	167.0	61.9	52.8	40.3	31.8	30.0	30.0	28.6	24.8	25.0	26.6
87.5°	50.8	37.3	34.9	28.8	22.8	22.4	21.4	20.5	18.1	17.9	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1052.5	1041.2	1027.5	997.3	987.2	986.6	995.8	986.2	1004.5	996.8	1005.3
5°	848.8	837.7	822.4	783.9	760.5	744.6	737.0	714.8	730.9	719.2	728.9
7.5°	624.3	626.8	616.7	594.1	543.1	517.4	502.3	488.8	500.6	499.4	518.0
10°	438.8	445.8	438.6	415.8	374.5	360.4	363.2	368.5	383.8	391.8	420.5
12.5°	315.9	315.5	310.9	290.5	263.3	264.9	276.2	285.5	299.6	308.0	337.3
15°	235.9	232.3	230.3	213.6	198.2	201.5	207.1	208.1	217.0	222.0	245.8
17.5°	178.3	180.1	182.3	170.4	158.6	156.5	152.1	146.7	149.3	150.3	162.2
20°	141.6	148.7	154.1	145.7	133.8	127.5	121.9	118.3	118.3	118.1	121.5
22.5°	123.7	128.9	134.6	128.9	118.1	112.6	109.4	106.6	106.2	106.2	109.4
25°	114.0	117.7	123.3	119.3	111.4	107.2	104.2	100.7	99.3	98.9	101.1
27.5°	109.2	110.8	113.6	110.0	103.2	101.3	100.5	97.3	95.5	94.5	96.7
30°	101.1	100.7	100.9	97.3	91.9	91.7	93.1	93.7	93.1	92.9	96.3
32.5°	93.5	92.7	92.5	89.4	84.4	83.2	84.4	85.6	87.0	89.0	92.9
35°	84.0	86.0	87.2	84.4	78.4	74.9	73.5	71.3	70.1	70.1	74.7
37.5°	76.4	81.0	82.8	80.2	73.7	68.7	66.3	65.9	66.1	66.9	71.3
40°	73.9	77.2	78.8	76.2	69.7	65.1	63.7	63.3	63.7	64.9	69.3
42.5°	72.3	74.7	74.5	71.3	65.9	62.7	61.9	61.6	61.9	63.1	67.9
45°	70.9	72.5	70.9	67.1	62.1	60.6	60.8	60.6	61.0	62.1	66.7
47.5°	69.7	70.3	68.3	64.5	59.4	59.0	59.8	60.4	60.8	61.8	66.5
50°	67.9	67.9	66.1	62.1	57.0	57.2	58.2	59.6	59.8	61.0	64.7
52.5°	65.7	65.5	64.3	60.6	55.0	55.6	55.6	57.2	57.6	59.0	62.9
55°	63.9	63.5	62.9	59.4	53.2	54.2	53.6	54.2	55.2	56.6	61.0
57.5°	62.3	61.6	61.6	58.4	51.8	52.2	50.8	51.6	52.8	54.0	58.6
60°	60.8	60.0	60.4	57.0	49.6	49.2	48.6	50.2	50.6	52.0	56.6
62.5°	59.0	58.4	58.6	55.4	48.1	47.1	47.1	48.4	48.6	50.6	55.0
65°	57.6	56.8	56.6	53.8	46.3	45.1	45.7	46.3	46.7	48.6	52.8
67.5°	56.2	54.6	54.6	52.4	44.3	43.1	44.3	44.1	44.7	46.5	49.8
70°	54.4	52.2	52.4	51.4	42.3	40.9	41.9	41.7	42.1	43.3	46.7
72.5°	51.6	49.8	50.2	49.8	40.3	38.3	38.7	38.7	38.7	39.7	43.3
75°	48.1	46.7	47.9	48.8	37.9	35.1	35.5	35.5	34.9	35.5	39.9
77.5°	43.7	42.9	46.9	45.5	35.1	31.8	31.8	31.4	30.2	31.0	35.7
80°	38.9	38.3	43.3	38.1	32.0	27.6	27.2	26.2	25.0	25.6	30.4
82.5°	34.0	33.4	36.3	29.2	27.6	22.8	21.8	20.1	18.9	19.5	23.8
85°	27.8	27.8	28.0	22.0	21.0	17.5	16.3	13.9	12.5	12.9	17.1
87.5°	19.9	20.5	18.9	15.1	12.5	9.7	8.9	7.5	6.4	7.3	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1049.0	1070.8	1095.6	1127.4	1154.6	1199.3	1242.2	1268.0
5°	784.3	820.6	865.9	924.1	978.3	1059.7	1140.5	1192.3
7.5°	561.3	600.2	649.1	721.8	798.4	902.2	1009.1	1071.0
10°	464.4	504.3	545.4	594.5	657.2	770.2	896.5	966.4
12.5°	384.2	426.9	471.2	522.8	581.0	681.8	827.4	907.8
15°	294.1	341.7	393.9	459.3	532.1	648.7	810.3	897.7
17.5°	201.5	254.7	318.9	399.5	488.6	638.0	840.9	941.6
20°	138.8	177.5	246.0	340.5	447.7	636.6	899.7	1025.7
22.5°	116.2	133.4	183.5	286.3	417.0	653.6	990.8	1143.9
25°	107.4	117.7	146.5	239.3	394.5	693.0	1116.3	1296.8
27.5°	102.3	111.6	133.0	208.5	376.9	738.6	1238.4	1444.9
30°	104.2	113.8	129.3	192.8	352.8	776.8	1346.8	1560.5
32.5°	93.9	98.1	110.8	178.9	335.6	808.7	1441.7	1656.2
35°	80.0	87.4	98.9	172.3	336.0	830.2	1545.2	1778.5
37.5°	76.2	83.6	91.9	170.0	340.5	853.0	1663.9	1921.8
40°	73.9	80.6	87.8	168.6	344.9	873.8	1780.3	2063.6
42.5°	72.3	78.4	87.4	163.8	347.1	892.5	1876.0	2184.1
45°	72.1	78.4	89.0	159.0	350.5	912.6	1956.2	2273.3
47.5°	72.3	81.0	86.0	153.3	350.5	946.1	2050.3	2352.9
50°	71.5	85.4	82.8	145.1	342.3	1009.7	2179.4	2459.5
52.5°	71.1	84.8	76.6	132.6	328.2	1110.5	2344.8	2606.5
55°	70.1	81.8	72.3	114.0	311.7	1220.5	2521.9	2780.2
57.5°	69.1	72.5	69.9	97.7	286.3	1298.0	2643.8	2915.8
60°	77.4	63.3	67.9	89.7	252.4	1319.2	2639.0	2969.8
62.5°	71.7	59.4	65.3	88.0	228.5	1259.6	2517.1	2940.6
65°	56.2	56.8	62.7	93.1	222.2	1101.8	2301.1	2805.8
67.5°	51.4	54.2	60.2	99.7	222.8	882.2	1978.2	2512.1
70°	48.4	51.4	57.2	103.1	224.4	657.6	1564.0	2046.1
72.5°	45.1	47.7	53.8	103.6	214.0	477.7	1205.4	1504.5
75°	41.1	43.5	49.0	90.3	177.3	331.4	922.1	1029.3
77.5°	36.5	38.3	43.1	69.7	131.6	212.1	692.2	751.9
80°	31.2	32.2	36.1	51.0	90.1	132.6	547.6	603.4
82.5°	25.0	25.4	28.0	38.3	58.6	85.2	366.7	418.6
85°	17.7	17.7	19.3	27.8	39.9	54.0	199.2	220.8
87.5°	8.3	8.5	8.5	15.3	20.8	27.4	45.9	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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