

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: P193839

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193839
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA 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: 4903 lumens
Efficiency: N/A
Efficacy: 73.2 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 - G2

Input Watts (W): 67
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

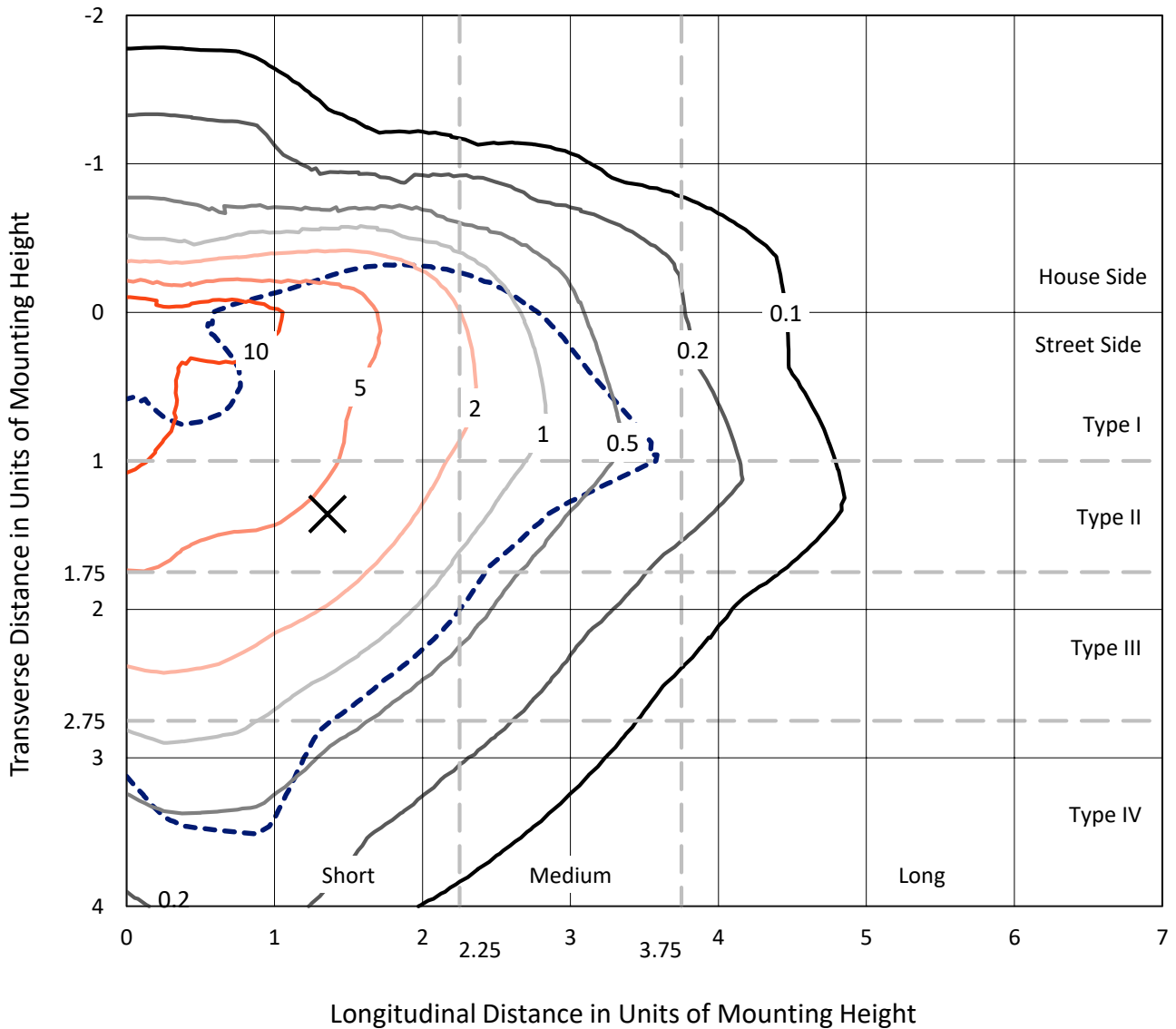


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

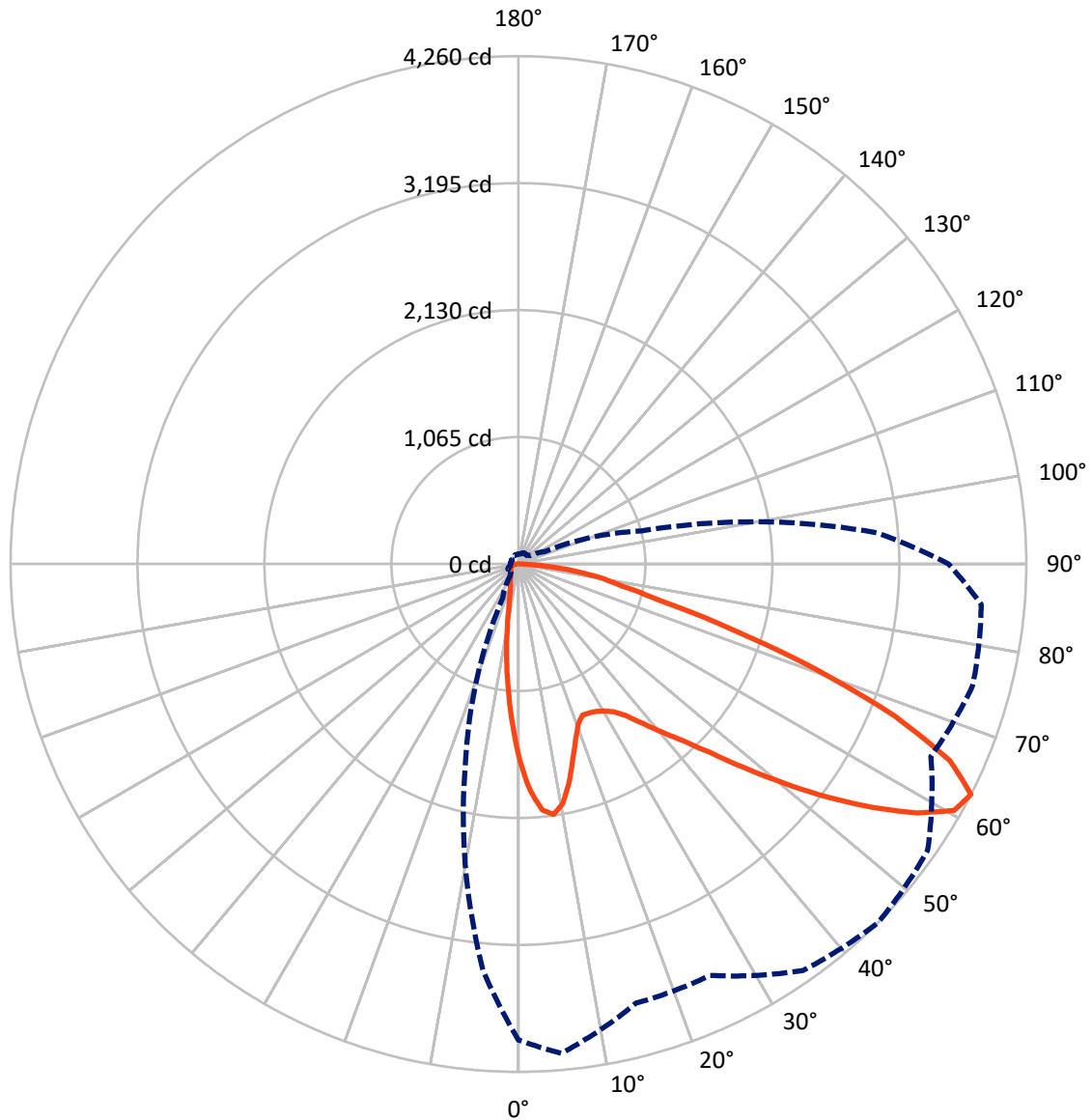


Based on 10 foot mounting height. Maximum calculated value = 19.5 fc
 Type IV - Short - Non-Cutoff

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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	811.4	0.0	811.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4091.6	0.0	4091.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	4903.0	0.0	4903.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	2.5
10°-20°	221.1	4.5
20°-30°	322.4	6.6
30°-40°	496.5	10.1
40°-50°	730.8	14.9
50°-60°	1071.9	21.9
60°-70°	1198.2	24.4
70°-80°	586.6	12.0
80°-90°	154.9	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°	4903.0	100.0
0°-180°	4903.0	100.0



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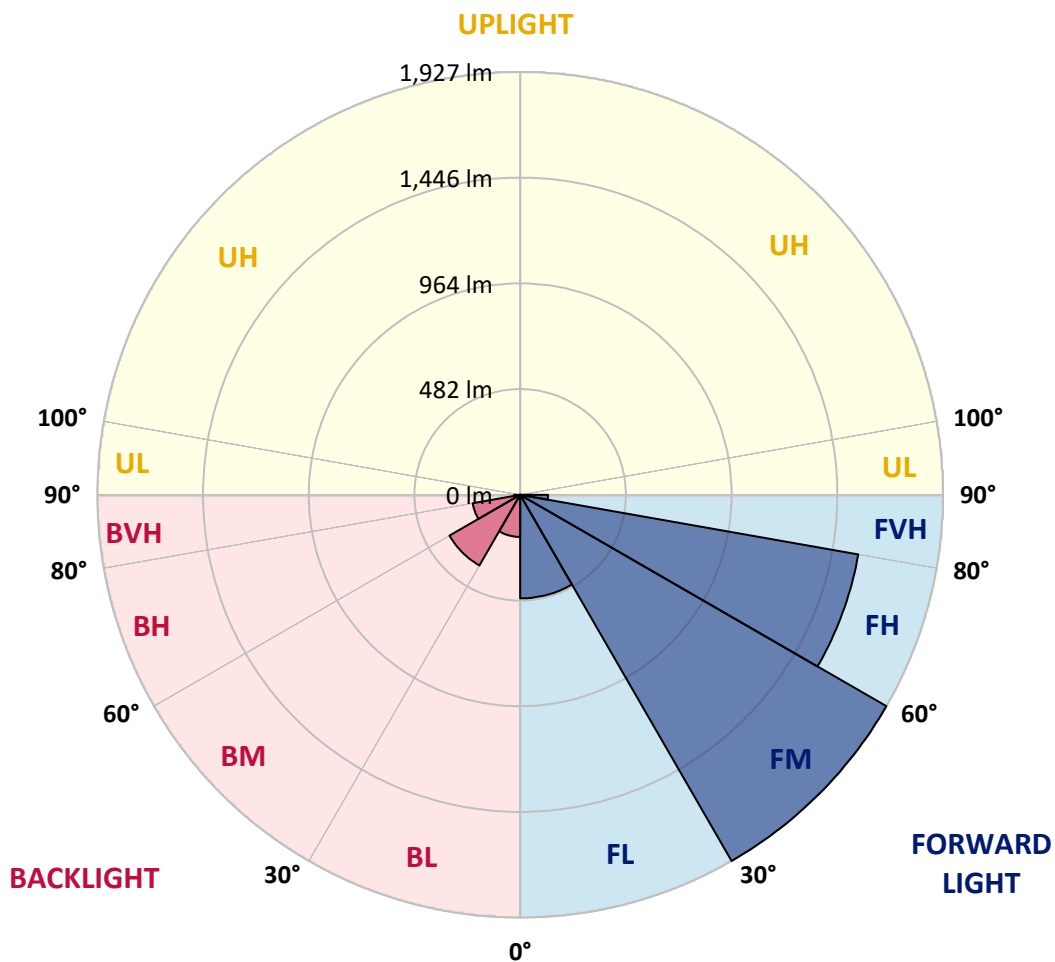
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.1	9.6			
FM (30°-60°)	1927.4	39.3			
FH (60°-80°)	1564.9	31.9			G1/1800
FVH (80°-90°)	127.2	2.6			G2/225
BL (0°-30°)	192.0	3.9	B1/500		
BM (30°-60°)	371.8	7.6	B1/1000		
BH (60°-80°)	220.0	4.5	B1/500		G1/500
BVH (80°-90°)	27.7	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1721.2	1748.7	1802.3	1842.5	1891.3	1902.6	1918.2	1902.8	1875.6	1839.5	1827.6
5°	1618.5	1677.3	1807.4	1922.0	2023.9	2071.3	2084.5	2045.4	1966.5	1862.7	1799.3
7.5°	1453.8	1537.4	1713.6	1882.4	2032.5	2121.2	2119.0	2028.2	1882.9	1713.9	1612.3
10°	1311.8	1407.2	1609.3	1798.0	1957.3	2043.3	2010.1	1893.9	1720.6	1526.0	1415.8
12.5°	1232.3	1325.8	1530.9	1720.4	1853.5	1883.2	1857.8	1744.1	1580.8	1384.0	1287.5
15°	1218.5	1321.2	1499.6	1653.8	1728.5	1702.6	1672.4	1621.5	1506.1	1338.2	1237.7
17.5°	1278.1	1391.3	1535.5	1607.4	1594.8	1549.8	1541.1	1546.8	1519.0	1389.1	1273.2
20°	1392.4	1528.2	1620.9	1585.6	1493.2	1431.2	1433.3	1519.8	1602.1	1518.2	1385.9
22.5°	1552.7	1707.7	1744.1	1597.2	1450.3	1376.7	1394.5	1534.7	1734.4	1706.9	1537.9
25°	1760.3	1901.5	1875.4	1639.2	1454.6	1383.5	1397.8	1585.9	1890.7	1895.6	1726.0
27.5°	1961.3	2092.3	1985.6	1695.0	1472.4	1399.4	1418.2	1666.5	2040.0	2100.4	1941.1
30°	2118.2	2209.3	2029.2	1746.0	1507.5	1430.4	1453.8	1743.0	2108.0	2238.7	2106.6
32.5°	2248.1	2313.6	2098.8	1809.0	1571.9	1479.2	1520.4	1836.0	2205.8	2370.2	2268.6
35°	2414.1	2432.7	2185.3	1879.4	1671.3	1564.1	1615.3	1927.1	2299.0	2503.1	2428.1
37.5°	2608.7	2584.7	2267.0	1975.6	1799.9	1696.9	1739.2	2027.1	2375.9	2653.7	2591.2
40°	2801.2	2743.5	2369.4	2124.9	1987.5	1853.5	1903.7	2133.8	2447.6	2804.7	2750.5
42.5°	2964.8	2879.3	2470.5	2289.1	2162.1	2026.3	2086.1	2241.4	2516.0	2933.5	2888.8
45°	3085.8	2979.6	2566.7	2446.7	2402.8	2255.9	2284.2	2364.5	2590.1	3041.0	3002.5
47.5°	3193.9	3080.4	2675.6	2605.8	2613.3	2554.6	2509.0	2507.9	2677.5	3128.9	3110.0
50°	3338.6	3220.3	2792.5	2769.6	2929.2	2890.1	2789.6	2675.3	2788.0	3228.6	3226.5
52.5°	3538.0	3441.8	2935.4	2946.2	3224.1	3249.7	3125.1	2876.4	2961.0	3411.6	3398.7
55°	3773.9	3717.8	3130.0	3149.1	3585.8	3604.1	3480.4	3127.8	3215.4	3676.6	3640.7
57.5°	3958.0	3946.1	3343.5	3392.8	3855.8	3938.3	3824.6	3418.9	3502.2	3899.7	3809.7
60°	4031.3	4088.7	3570.7	3638.6	4105.7	4197.0	4097.3	3674.7	3756.4	3992.2	3798.1
62.5°	3991.7	4120.0	3812.7	3807.0	4161.5	4259.8	4189.8	3817.0	3944.8	3896.8	3606.0
65°	3808.7	4007.6	3953.1	3763.6	3970.6	3978.7	3956.1	3753.4	3989.2	3595.2	3234.6
67.5°	3410.0	3696.3	3768.2	3391.7	3455.8	3403.3	3365.3	3405.2	3757.4	3143.2	2718.4
70°	2777.4	3208.1	3242.6	2712.8	2683.7	2648.3	2572.6	2791.7	3300.1	2576.1	2157.0
72.5°	2042.2	2495.0	2600.9	1989.6	1854.9	1862.1	1802.3	2103.9	2683.1	1913.6	1610.4
75°	1397.2	1806.6	2034.9	1388.3	1226.6	1229.6	1222.0	1490.7	2137.1	1331.2	1205.0
77.5°	1020.7	1290.8	1534.7	933.4	906.1	889.4	885.4	1043.1	1638.4	966.5	935.8
80°	819.1	953.6	1030.9	646.9	695.6	694.3	671.9	717.2	1070.0	707.0	700.0
82.5°	568.2	732.8	835.3	507.0	469.5	461.7	467.1	534.2	756.3	483.3	459.5
85°	299.7	486.8	827.2	449.3	278.7	222.4	276.5	437.4	655.2	256.0	224.2
87.5°	38.3	140.7	547.7	179.2	110.0	59.3	131.3	246.3	420.7	52.3	45.5
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°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1797.2	1761.3	1714.4	1671.1	1626.0	1581.3	1522.8	1486.2	1460.8	1456.0	1445.2
5°	1753.5	1634.4	1544.4	1466.5	1395.9	1296.1	1240.9	1195.1	1170.5	1168.1	1162.2
7.5°	1552.2	1387.8	1266.2	1156.0	1056.0	975.4	886.5	845.0	828.0	832.0	836.1
10°	1342.8	1159.0	1019.3	906.7	818.5	750.6	679.2	631.0	597.5	590.8	589.5
12.5°	1189.7	988.1	852.5	773.0	704.8	640.9	565.2	508.3	464.9	450.1	440.1
15°	1125.0	904.5	762.5	676.8	601.6	520.5	450.1	390.5	350.7	337.7	330.4
17.5°	1138.7	881.3	700.5	590.8	494.6	409.9	321.3	270.3	246.3	240.1	240.1
20°	1211.0	877.0	649.3	511.6	391.6	293.5	220.7	191.6	183.8	183.0	185.2
22.5°	1312.3	892.1	611.0	442.8	304.3	214.3	172.0	161.2	157.7	158.5	160.9
25°	1463.2	943.1	583.3	381.6	238.8	175.5	153.4	146.9	145.3	147.4	150.4
27.5°	1642.2	994.0	566.0	335.6	201.6	160.4	145.8	139.1	140.2	142.8	145.5
30°	1799.3	1035.8	538.8	302.7	190.0	161.2	145.8	136.6	135.6	136.1	136.9
32.5°	1940.3	1064.1	507.0	271.4	163.9	143.1	136.1	134.8	128.8	126.7	126.9
35°	2061.9	1064.1	487.8	253.1	146.9	126.9	115.6	108.9	105.9	106.2	109.2
37.5°	2179.1	1042.8	478.4	242.8	137.7	120.7	110.8	104.8	100.8	100.0	100.5
40°	2282.6	1011.8	467.6	238.5	130.7	117.0	107.5	102.7	98.4	97.0	97.3
42.5°	2365.6	986.7	455.8	232.9	126.4	114.3	105.4	101.1	96.2	94.9	94.6
45°	2455.4	978.4	440.1	221.5	128.6	114.5	104.8	100.3	95.4	93.8	93.3
47.5°	2573.7	1004.5	424.0	208.1	133.1	115.9	105.7	100.3	95.1	93.8	93.3
50°	2722.7	1066.0	403.5	188.4	128.6	119.7	105.4	99.5	95.1	93.8	92.7
52.5°	2914.1	1149.0	376.5	165.8	125.9	128.8	104.8	97.8	93.8	91.9	90.0
55°	3146.7	1216.9	344.5	147.2	119.7	126.4	104.0	96.0	91.6	88.9	87.3
57.5°	3317.0	1241.4	303.2	135.0	111.0	122.4	103.0	93.5	88.9	86.8	84.6
60°	3283.3	1194.0	268.4	127.5	105.9	110.5	102.1	91.4	86.5	84.9	83.0
62.5°	3013.6	1070.0	246.1	124.0	102.7	100.8	103.0	89.2	84.4	82.7	82.2
65°	2609.0	887.0	237.2	123.2	100.0	95.1	95.7	86.8	81.9	80.6	80.0
67.5°	2152.2	715.9	229.4	125.9	96.5	91.1	88.4	83.6	79.5	78.2	77.1
70°	1697.2	595.4	225.9	124.3	92.2	87.1	84.1	80.0	76.5	75.2	74.4
72.5°	1366.8	502.9	224.0	122.6	86.5	81.7	79.0	75.5	71.7	71.2	70.3
75°	1156.5	395.4	205.1	117.5	80.0	75.2	73.3	70.1	66.3	66.3	65.8
77.5°	892.1	286.0	170.6	104.0	73.3	67.9	66.3	63.9	59.6	60.4	60.1
80°	659.0	186.5	133.4	86.2	65.0	59.8	59.0	56.6	52.0	53.1	53.1
82.5°	451.5	122.4	96.0	70.6	55.5	50.7	50.7	48.2	43.1	43.7	45.3
85°	226.7	84.1	71.7	54.7	43.1	40.7	40.7	38.8	33.7	34.0	36.1
87.5°	69.0	50.7	47.4	39.1	31.0	30.5	29.1	27.8	24.5	24.3	25.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1428.7	1413.4	1394.8	1353.8	1340.1	1339.3	1351.7	1338.7	1363.5	1353.0	1364.6
5°	1152.2	1137.1	1116.4	1064.1	1032.3	1010.7	1000.5	970.3	992.1	976.2	989.4
7.5°	847.4	850.9	837.1	806.4	737.1	702.4	681.9	663.6	679.5	677.9	703.2
10°	595.6	605.1	595.4	564.4	508.3	489.2	493.0	500.2	521.0	531.8	570.9
12.5°	428.8	428.3	422.1	394.3	357.4	359.5	374.9	387.6	406.7	418.0	457.9
15°	320.2	315.3	312.6	290.0	269.0	273.6	281.1	282.5	294.6	301.3	333.7
17.5°	242.0	244.5	247.4	231.3	215.4	212.4	206.5	199.2	202.7	204.0	220.2
20°	192.2	201.9	209.2	197.8	181.7	173.0	165.5	160.6	160.6	160.4	164.9
22.5°	167.9	174.9	182.7	174.9	160.4	152.8	148.5	144.7	144.2	144.2	148.5
25°	154.7	159.8	167.4	162.0	151.2	145.5	141.5	136.6	134.8	134.2	137.2
27.5°	148.2	150.4	154.2	149.3	140.2	137.5	136.4	132.1	129.6	128.3	131.3
30°	137.2	136.6	136.9	132.1	124.8	124.5	126.4	127.2	126.4	126.1	130.7
32.5°	126.9	125.9	125.6	121.3	114.5	112.9	114.5	116.2	118.1	120.7	126.1
35°	114.0	116.7	118.3	114.5	106.5	101.6	99.7	96.8	95.1	95.1	101.3
37.5°	103.8	110.0	112.4	108.9	100.0	93.3	90.0	89.5	89.8	90.8	96.8
40°	100.3	104.8	107.0	103.5	94.6	88.4	86.5	86.0	86.5	88.1	94.1
42.5°	98.1	101.3	101.1	96.8	89.5	85.2	84.1	83.6	84.1	85.7	92.2
45°	96.2	98.4	96.2	91.1	84.4	82.2	82.5	82.2	82.7	84.4	90.6
47.5°	94.6	95.4	92.7	87.6	80.6	80.0	81.1	81.9	82.5	83.8	90.3
50°	92.2	92.2	89.8	84.4	77.4	77.6	79.0	80.9	81.1	82.7	87.9
52.5°	89.2	88.9	87.3	82.2	74.7	75.5	75.5	77.6	78.2	80.0	85.4
55°	86.8	86.2	85.4	80.6	72.2	73.6	72.8	73.6	74.9	76.8	82.7
57.5°	84.6	83.6	83.6	79.2	70.3	70.9	69.0	70.1	71.7	73.3	79.5
60°	82.5	81.4	81.9	77.4	67.4	66.8	66.0	68.2	68.7	70.6	76.8
62.5°	80.0	79.2	79.5	75.2	65.2	63.9	63.9	65.8	66.0	68.7	74.7
65°	78.2	77.1	76.8	73.0	62.8	61.2	62.0	62.8	63.3	66.0	71.7
67.5°	76.3	74.1	74.1	71.2	60.1	58.5	60.1	59.8	60.6	63.1	67.7
70°	73.8	70.9	71.2	69.8	57.4	55.5	56.9	56.6	57.1	58.8	63.3
72.5°	70.1	67.7	68.2	67.7	54.7	52.0	52.6	52.6	52.6	53.9	58.8
75°	65.2	63.3	65.0	66.3	51.5	47.7	48.2	48.2	47.4	48.2	54.2
77.5°	59.3	58.2	63.6	61.7	47.7	43.1	43.1	42.6	41.0	42.0	48.5
80°	52.8	52.0	58.8	51.7	43.4	37.5	36.9	35.6	34.0	34.8	41.2
82.5°	46.1	45.3	49.3	39.6	37.5	31.0	29.6	27.2	25.6	26.4	32.3
85°	37.7	37.7	38.0	29.9	28.6	23.7	22.1	18.9	17.0	17.5	23.2
87.5°	27.0	27.8	25.6	20.5	17.0	13.2	12.1	10.2	8.6	10.0	12.1
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-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1423.9	1453.5	1487.2	1530.4	1567.3	1627.9	1686.1	1721.2
5°	1064.6	1113.9	1175.4	1254.4	1327.9	1438.5	1548.1	1618.5
7.5°	761.9	814.8	881.1	979.7	1083.8	1224.7	1369.7	1453.8
10°	630.4	684.6	740.4	807.0	892.1	1045.5	1216.9	1311.8
12.5°	521.5	579.5	639.6	709.7	788.6	925.5	1123.1	1232.3
15°	399.2	463.9	534.7	623.4	722.3	880.5	1099.9	1218.5
17.5°	273.6	345.8	432.9	542.3	663.3	866.0	1141.4	1278.1
20°	188.4	241.0	333.9	462.2	607.8	864.1	1221.2	1392.4
22.5°	157.7	181.1	249.0	388.7	566.0	887.3	1344.9	1552.7
25°	145.8	159.8	198.9	324.8	535.5	940.6	1515.3	1760.3
27.5°	138.8	151.5	180.6	283.0	511.6	1002.6	1681.0	1961.3
30°	141.5	154.4	175.5	261.7	478.9	1054.4	1828.2	2118.2
32.5°	127.5	133.1	150.4	242.8	455.5	1097.8	1957.0	2248.1
35°	108.6	118.6	134.2	233.9	456.0	1126.9	2097.4	2414.1
37.5°	103.5	113.5	124.8	230.7	462.2	1157.9	2258.6	2608.7
40°	100.3	109.4	119.1	228.8	468.2	1186.2	2416.6	2801.2
42.5°	98.1	106.5	118.6	222.4	471.1	1211.5	2546.5	2964.8
45°	97.8	106.5	120.7	215.9	475.7	1238.7	2655.4	3085.8
47.5°	98.1	110.0	116.7	208.1	475.7	1284.3	2783.1	3193.9
50°	97.0	115.9	112.4	197.0	464.7	1370.5	2958.3	3338.6
52.5°	96.5	115.1	104.0	180.0	445.5	1507.5	3182.8	3538.0
55°	95.1	111.0	98.1	154.7	423.2	1656.8	3423.2	3773.9
57.5°	93.8	98.4	94.9	132.6	388.7	1761.9	3588.7	3958.0
60°	105.1	86.0	92.2	121.8	342.6	1790.7	3582.2	4031.3
62.5°	97.3	80.6	88.7	119.4	310.2	1709.9	3416.8	3991.7
65°	76.3	77.1	85.2	126.4	301.6	1495.6	3123.5	3808.7
67.5°	69.8	73.6	81.7	135.3	302.4	1197.5	2685.3	3410.0
70°	65.8	69.8	77.6	139.9	304.6	892.7	2123.0	2777.4
72.5°	61.2	64.7	73.0	140.7	290.5	648.5	1636.3	2042.2
75°	55.8	59.0	66.6	122.6	240.7	449.8	1251.7	1397.2
77.5°	49.6	52.0	58.5	94.6	178.7	287.9	939.6	1020.7
80°	42.3	43.7	49.1	69.3	122.4	180.0	743.3	819.1
82.5°	34.0	34.5	38.0	52.0	79.5	115.6	497.8	568.2
85°	24.0	24.0	26.1	37.7	54.2	73.3	270.3	299.7
87.5°	11.3	11.6	11.6	20.8	28.3	37.2	62.3	38.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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