

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: P193939

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
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-T2R-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4281 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full 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

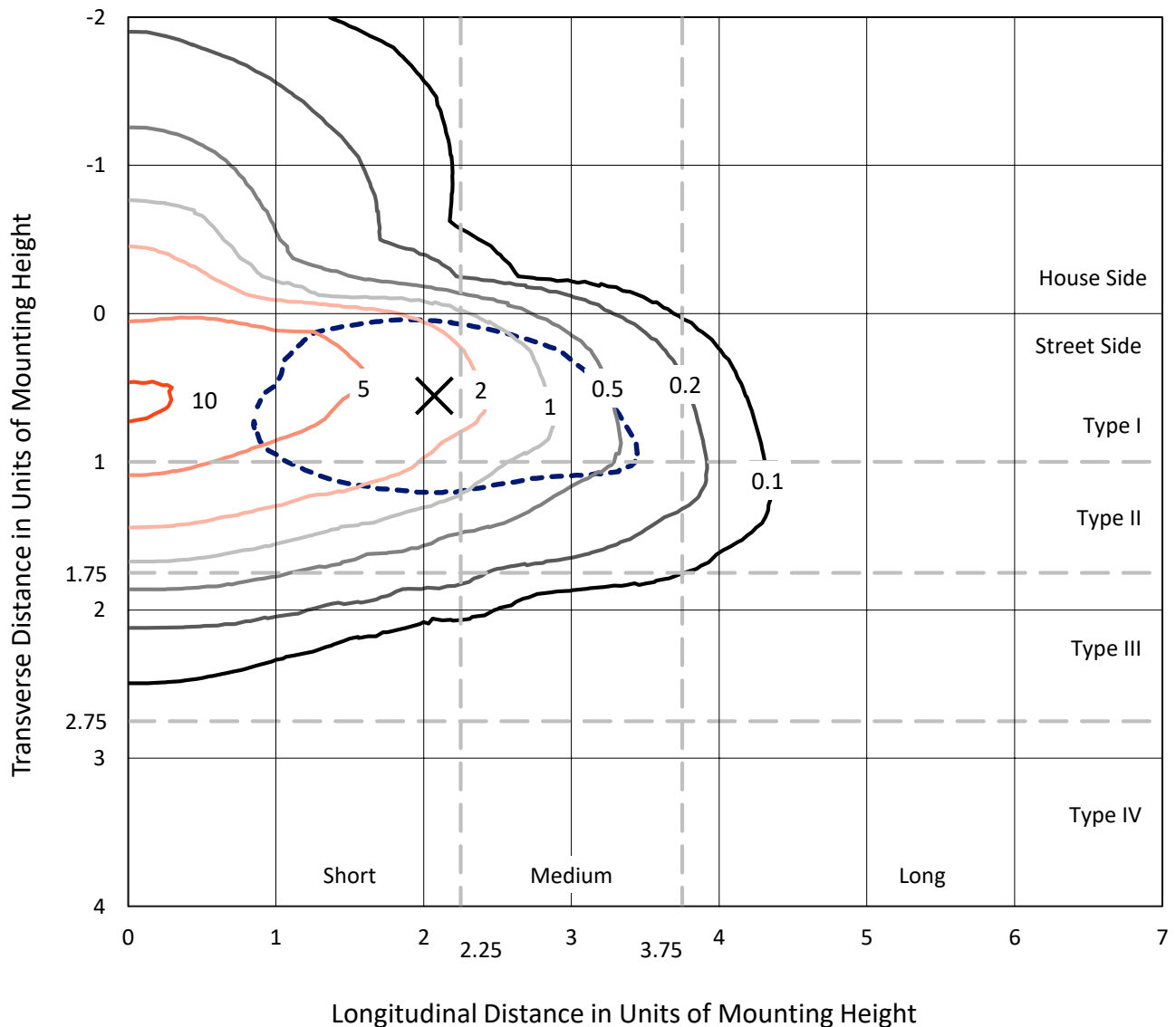


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

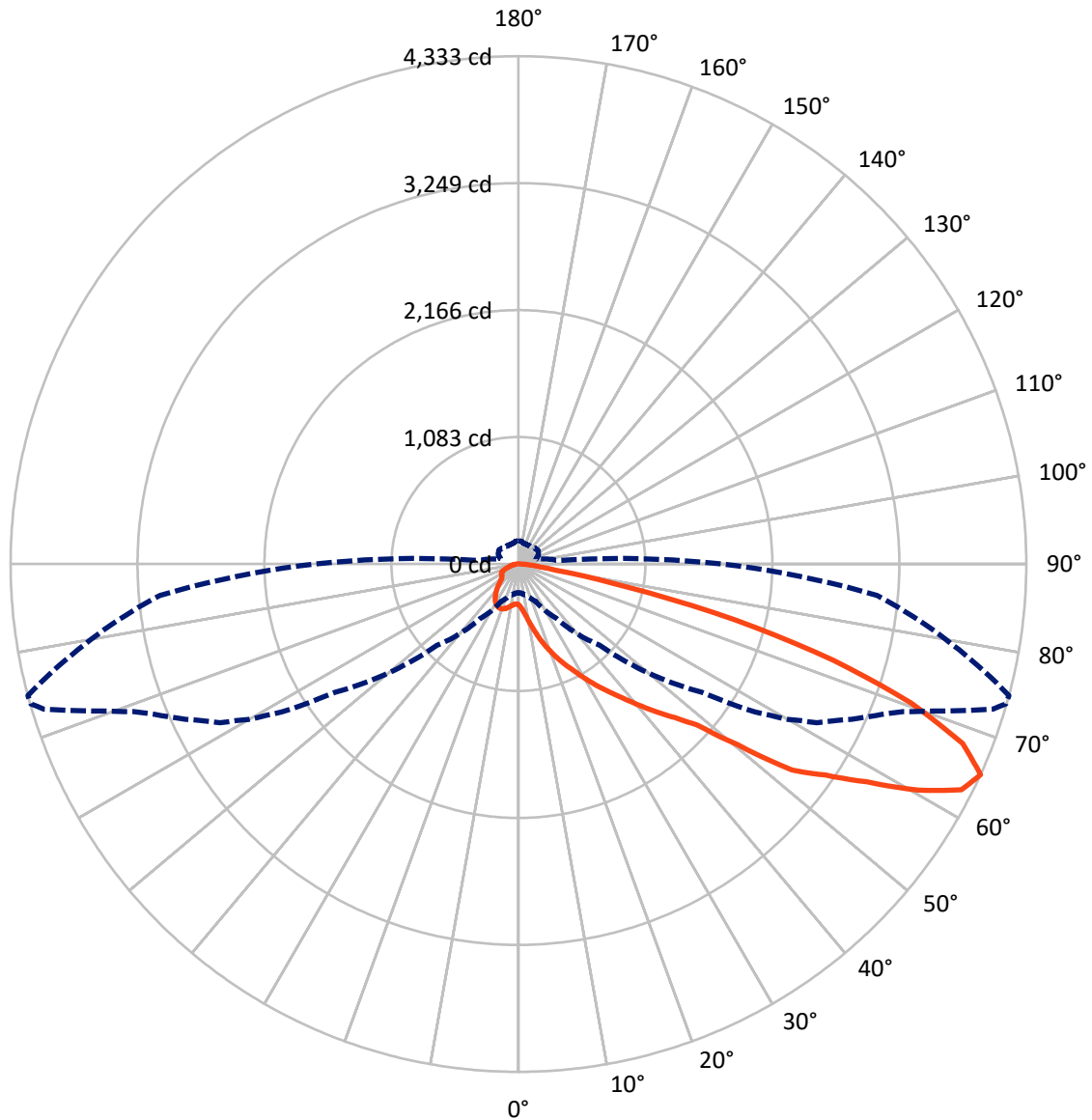


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.0	0.0	660.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3621.0	0.0	3621.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	4281.0	0.0	4281.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.0
10°-20°	168.0	3.9
20°-30°	344.7	8.1
30°-40°	580.0	13.5
40°-50°	801.4	18.7
50°-60°	1000.4	23.4
60°-70°	900.2	21.0
70°-80°	377.4	8.8
80°-90°	65.9	1.5
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°	4281.0	100.0
0°-180°	4281.0	100.0



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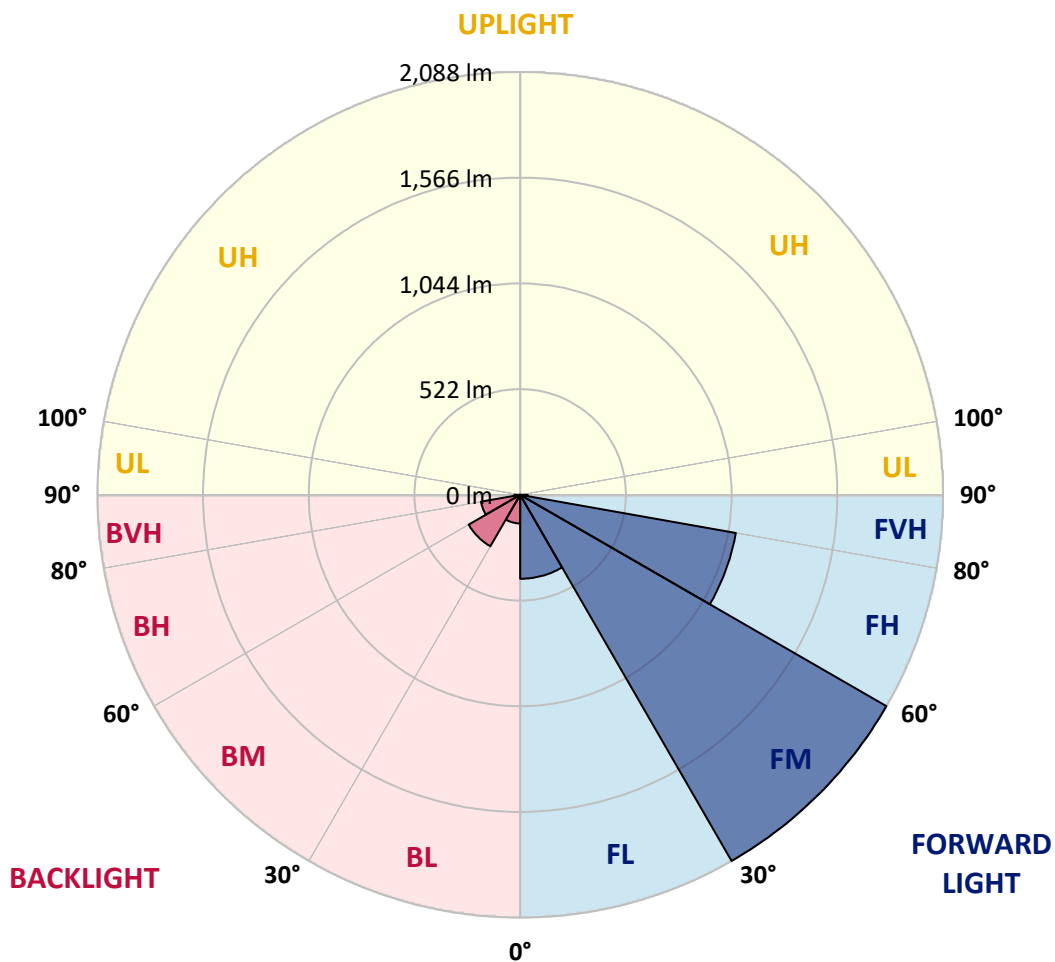
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.6	9.7			
FM (30°-60°)	2087.9	48.8			
FH (60°-80°)	1081.4	25.3			G1/1800
FVH (80°-90°)	37.1	0.9			G1/100
BL (0°-30°)	141.2	3.3	B1/500		
BM (30°-60°)	293.8	6.9	B1/1000		
BH (60°-80°)	196.2	4.6	B1/500		G1/500
BVH (80°-90°)	28.9	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9
2.5°	441.7	436.9	438.1	430.0	420.0	407.1	392.7	392.5	392.7	391.3	386.0
5°	612.5	606.7	604.4	586.2	559.5	521.4	480.0	475.6	473.7	469.1	458.3
7.5°	737.2	733.9	730.5	716.7	692.4	649.8	594.3	584.8	575.7	573.4	561.3
10°	817.6	816.8	809.5	805.9	790.7	753.8	699.7	690.6	680.6	677.2	664.4
12.5°	881.2	881.0	877.6	878.6	865.4	838.7	792.1	783.8	776.5	765.9	756.8
15°	925.2	925.4	930.5	936.1	934.1	916.1	872.3	868.7	862.4	855.1	844.4
17.5°	961.3	962.3	967.6	977.9	989.0	987.6	953.0	949.9	944.5	934.5	928.8
20°	1042.7	1046.6	1036.4	1036.4	1037.7	1043.1	1026.5	1024.1	1016.4	1011.1	1006.7
22.5°	1180.3	1184.8	1161.9	1138.6	1115.7	1099.1	1082.4	1085.5	1080.2	1076.6	1073.9
25°	1359.0	1362.5	1325.4	1286.1	1239.5	1178.7	1137.6	1135.7	1132.9	1130.7	1129.5
27.5°	1527.2	1528.6	1493.6	1436.0	1381.9	1294.6	1193.5	1191.3	1187.8	1183.6	1179.9
30°	1671.1	1670.7	1634.6	1579.7	1521.7	1425.1	1278.4	1271.5	1261.4	1249.8	1240.9
32.5°	1795.7	1795.1	1755.6	1698.6	1637.8	1554.4	1394.7	1380.5	1364.7	1342.2	1328.6
35°	1893.8	1893.4	1856.1	1796.7	1727.0	1676.1	1528.0	1510.6	1490.5	1460.3	1439.5
37.5°	1930.8	1930.8	1910.0	1869.5	1807.9	1773.0	1676.1	1655.1	1633.6	1599.3	1575.8
40°	1909.2	1909.6	1914.0	1906.5	1876.5	1849.8	1814.3	1801.8	1783.3	1752.5	1728.0
42.5°	1836.4	1838.7	1868.2	1904.5	1919.5	1915.2	1936.9	1931.3	1918.3	1894.6	1875.1
45°	1744.2	1751.1	1783.5	1852.0	1931.5	1971.8	2039.7	2040.3	2037.8	2025.1	2010.1
47.5°	1617.6	1627.3	1670.1	1762.7	1903.5	2026.7	2144.0	2149.5	2154.5	2146.2	2139.4
50°	1449.4	1461.0	1525.0	1647.8	1846.6	2083.6	2341.2	2365.9	2389.0	2386.2	2390.8
52.5°	1269.3	1282.8	1361.3	1498.0	1748.7	2096.8	2467.2	2507.5	2547.9	2580.9	2615.9
55°	1106.8	1099.5	1177.9	1321.9	1587.8	2037.4	2580.5	2629.1	2674.1	2714.6	2756.4
57.5°	886.5	898.5	977.1	1119.5	1374.8	1869.9	2658.5	2729.6	2794.2	2861.3	2920.5
60°	648.0	660.0	745.3	889.9	1143.6	1615.8	2598.9	2706.7	2810.3	2913.0	2993.2
62.5°	391.3	400.2	475.4	613.2	881.8	1314.5	2333.5	2474.9	2627.3	2750.1	2873.1
65°	243.6	248.6	276.4	352.2	566.3	981.3	1906.5	2060.7	2224.9	2380.7	2508.5
67.5°	199.4	201.2	206.3	222.5	311.0	639.9	1419.0	1555.6	1703.7	1854.5	1996.7
70°	179.3	178.1	178.1	179.1	199.4	344.1	929.1	1018.0	1141.4	1272.5	1402.6
72.5°	161.9	160.7	158.5	155.4	162.7	209.9	480.2	547.3	636.3	752.8	877.4
75°	145.5	143.9	141.2	137.4	142.4	158.5	230.6	258.8	302.1	364.1	433.6
77.5°	128.5	126.4	124.0	121.2	127.7	123.2	135.2	145.3	161.9	181.8	207.9
80°	109.2	107.4	106.6	105.2	112.9	93.8	95.4	101.7	111.4	122.2	134.3
82.5°	85.5	85.5	88.8	89.4	97.9	67.5	71.3	76.8	81.9	87.5	93.2
85°	56.3	56.7	67.7	71.9	77.2	45.4	53.5	55.3	59.4	62.6	65.0
87.5°	17.6	19.0	41.3	45.8	44.4	25.7	32.8	33.6	36.5	38.7	40.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9
2.5°	386.0	383.6	381.3	381.1	379.5	377.3	378.1	374.7	374.9	373.0	371.0
5°	453.9	452.3	444.2	441.9	435.9	432.0	431.4	423.3	422.3	417.6	412.6
7.5°	551.6	546.3	534.9	529.5	519.1	511.4	507.8	497.0	491.8	479.6	474.2
10°	653.9	647.2	633.2	625.5	615.6	603.2	596.5	580.9	574.9	563.7	550.3
12.5°	748.7	742.0	727.6	721.8	708.6	695.4	688.1	670.5	662.6	644.8	634.2
15°	836.5	829.8	817.2	811.1	798.0	787.2	777.5	760.1	750.7	734.1	720.3
17.5°	921.6	914.5	903.5	898.0	885.3	874.3	863.8	847.4	837.9	821.3	808.9
20°	1000.6	995.3	987.4	980.1	967.3	957.4	944.9	930.7	916.9	904.7	893.0
22.5°	1069.5	1067.4	1058.9	1055.7	1044.8	1036.2	1025.3	1011.3	1001.4	986.0	975.0
25°	1128.8	1128.2	1124.2	1123.2	1115.5	1107.4	1104.9	1093.4	1084.3	1070.7	1059.3
27.5°	1179.9	1180.5	1179.5	1182.3	1180.3	1176.7	1176.9	1173.0	1167.7	1156.4	1146.5
30°	1236.6	1233.4	1235.2	1239.3	1240.5	1240.9	1247.6	1249.8	1249.4	1241.9	1237.0
32.5°	1316.9	1309.2	1302.1	1301.5	1305.5	1307.2	1318.5	1324.4	1329.4	1331.3	1332.1
35°	1419.2	1403.8	1389.0	1381.1	1374.2	1376.1	1384.2	1393.7	1404.8	1412.5	1421.6
37.5°	1548.1	1529.2	1503.1	1484.5	1479.8	1469.7	1474.9	1482.4	1493.4	1505.3	1521.1
40°	1704.3	1675.7	1646.4	1621.6	1608.3	1589.6	1589.4	1588.0	1594.7	1605.8	1628.1
42.5°	1854.7	1829.3	1798.1	1772.2	1754.8	1729.8	1724.8	1711.6	1714.6	1724.4	1746.0
45°	1995.5	1974.6	1955.6	1925.6	1910.8	1883.8	1875.3	1859.7	1851.0	1855.5	1877.2
47.5°	2131.9	2118.5	2098.6	2079.2	2067.8	2043.7	2032.8	2021.6	2010.5	2010.1	2032.8
50°	2397.7	2390.6	2367.1	2346.8	2352.3	2322.7	2324.6	2294.6	2308.1	2309.8	2357.4
52.5°	2647.5	2672.3	2689.7	2711.0	2724.7	2727.4	2736.5	2750.1	2766.5	2798.9	2843.1
55°	2790.6	2821.6	2839.6	2855.8	2882.6	2888.3	2903.5	2921.5	2935.9	2972.4	3009.8
57.5°	2960.6	3018.2	3046.1	3071.8	3107.9	3121.7	3147.0	3166.7	3185.3	3228.5	3273.9
60°	3065.4	3135.5	3192.4	3233.1	3278.3	3310.7	3349.0	3379.8	3423.6	3475.3	3543.0
62.5°	2982.1	3085.0	3160.6	3230.5	3291.9	3353.9	3408.8	3466.4	3532.8	3611.0	3716.0
65°	2650.4	2755.1	2884.6	2957.2	3038.4	3134.1	3217.5	3310.7	3401.3	3515.2	3670.4
67.5°	2133.7	2255.5	2400.9	2474.1	2567.5	2674.3	2767.9	2881.8	2987.6	3125.5	3317.4
70°	1538.0	1695.4	1817.8	1894.2	2003.2	2113.2	2203.6	2336.1	2423.6	2565.1	2763.4
72.5°	973.8	1098.0	1248.0	1344.2	1441.1	1552.5	1644.9	1759.2	1840.9	1969.8	2149.5
75°	523.6	615.2	746.9	838.3	942.0	1037.3	1145.5	1222.1	1282.4	1384.4	1530.3
77.5°	245.4	301.1	367.8	438.1	508.4	581.7	653.1	715.1	741.0	799.4	885.5
80°	148.9	167.0	186.4	208.1	237.5	261.2	292.6	315.3	316.9	335.4	361.7
82.5°	99.5	106.2	112.1	117.5	125.0	130.9	137.6	145.5	148.7	153.0	161.5
85°	67.9	71.1	72.3	75.8	75.0	77.0	79.6	82.3	83.7	83.5	87.3
87.5°	41.7	43.4	44.2	45.0	44.4	43.6	44.8	46.2	46.6	45.4	45.8
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9	347.9
2.5°	371.4	369.6	367.8	366.6	366.1	355.4	350.7	347.7	341.2	336.0	331.7
5°	409.7	405.9	402.8	399.2	397.2	370.0	360.1	353.2	341.8	335.1	329.1
7.5°	471.3	460.6	454.3	447.2	441.1	392.1	375.7	364.9	349.1	340.2	333.3
10°	541.2	530.1	520.1	509.2	499.7	421.5	397.6	380.9	360.1	348.5	339.4
12.5°	619.2	608.3	595.7	581.7	569.6	458.8	425.5	401.8	373.2	357.8	345.1
15°	711.4	692.2	677.0	660.8	646.6	503.3	458.1	425.3	387.2	366.4	349.3
17.5°	797.1	776.9	756.2	742.0	725.6	553.4	491.0	449.2	398.8	371.8	350.1
20°	880.8	858.7	840.9	821.9	804.6	605.3	526.0	470.3	406.3	372.0	345.1
22.5°	954.6	940.8	920.9	900.3	882.9	657.1	558.8	488.1	409.1	367.4	336.2
25°	1038.5	1023.9	999.6	982.1	962.7	710.0	591.1	501.9	407.5	358.7	322.4
27.5°	1128.0	1111.8	1086.9	1068.7	1045.2	764.9	620.7	511.8	401.4	344.5	303.9
30°	1221.4	1206.7	1182.1	1163.7	1140.0	823.1	653.7	518.5	389.2	324.8	282.5
32.5°	1321.7	1309.4	1285.1	1265.8	1240.5	886.1	684.5	520.6	370.8	301.5	259.8
35°	1417.0	1408.5	1388.0	1370.0	1343.6	945.7	717.1	519.5	348.9	276.0	239.1
37.5°	1524.2	1519.1	1509.0	1486.1	1453.9	1026.5	756.2	515.3	322.2	250.7	223.3
40°	1638.5	1638.9	1627.9	1612.3	1582.3	1124.6	802.8	507.0	293.0	228.4	208.9
42.5°	1759.4	1765.7	1760.4	1749.3	1720.5	1223.5	858.5	496.8	264.6	206.7	194.7
45°	1898.0	1905.7	1913.8	1897.4	1869.5	1354.0	931.9	483.7	234.0	188.6	185.0
47.5°	2057.9	2070.1	2077.3	2077.6	2049.6	1515.7	1051.0	475.8	206.9	176.5	180.3
50°	2395.3	2399.1	2416.3	2446.3	2424.9	1889.9	1259.1	470.9	188.4	169.0	176.9
52.5°	2881.4	2923.7	2953.5	2951.5	2922.3	2127.6	1373.8	445.8	177.5	166.2	175.3
55°	3079.3	3132.2	3187.3	3201.9	3179.2	2330.4	1482.2	420.7	172.2	168.2	175.9
57.5°	3343.2	3432.3	3507.9	3539.7	3506.9	2590.0	1624.9	407.5	170.6	173.7	179.7
60°	3651.4	3761.6	3860.9	3918.0	3918.0	2888.3	1772.8	402.0	168.4	181.8	186.2
62.5°	3849.3	4011.2	4161.2	4244.9	4242.4	3096.0	1838.4	383.4	163.3	187.4	195.1
65°	3850.1	4042.6	4233.7	4327.7	4332.6	3070.4	1730.0	338.6	154.0	188.2	204.0
67.5°	3529.2	3734.4	3957.1	4062.3	4086.6	2826.5	1497.6	278.4	138.8	180.1	207.3
70°	2980.7	3181.1	3408.4	3511.8	3554.9	2409.5	1206.2	214.6	119.3	162.3	200.6
72.5°	2348.3	2544.8	2703.1	2778.6	2812.3	1841.7	878.4	162.1	97.9	136.8	182.6
75°	1662.6	1810.1	1894.2	1911.0	1916.3	1110.2	533.7	120.6	80.6	106.4	154.2
77.5°	938.4	1001.6	994.7	1002.2	939.8	428.6	232.4	86.3	66.5	80.8	119.6
80°	366.4	377.7	354.8	347.7	318.9	159.5	102.5	60.2	53.1	61.2	83.7
82.5°	161.5	166.8	161.9	163.1	156.0	82.3	61.4	43.6	40.5	44.8	55.5
85°	89.0	90.6	90.2	92.8	89.0	32.8	29.2	26.7	28.4	30.4	35.7
87.5°	43.4	43.8	42.3	44.6	43.2	16.6	14.4	15.2	16.6	17.0	17.0
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-T2R-8030-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	347.9	347.9	347.9	347.9	347.9	347.9
2.5°	328.7	327.0	327.2	326.8	326.0	326.0
5°	325.8	324.2	324.2	323.8	322.8	323.0
7.5°	328.7	326.0	325.0	323.6	322.2	322.2
10°	331.9	327.2	324.4	322.0	320.2	320.2
12.5°	334.3	327.0	322.4	319.1	317.3	317.3
15°	335.1	325.6	319.1	315.3	313.7	313.5
17.5°	332.5	320.2	312.3	307.8	305.8	305.2
20°	324.4	310.2	300.7	295.6	292.8	291.8
22.5°	312.3	296.0	284.9	279.6	276.0	275.4
25°	295.2	277.8	266.9	261.8	259.8	259.2
27.5°	275.4	259.2	249.8	246.6	244.8	244.6
30°	256.5	242.7	235.9	233.4	231.2	230.8
32.5°	238.9	230.2	227.6	224.1	218.8	218.2
35°	226.3	225.5	223.7	216.0	209.5	207.7
37.5°	218.6	226.1	216.8	201.6	197.0	196.5
40°	214.2	219.9	203.8	198.6	199.0	198.6
42.5°	204.0	209.9	204.2	201.8	203.4	203.8
45°	193.9	200.4	207.3	205.7	209.5	209.5
47.5°	188.2	198.0	207.1	207.1	212.8	214.8
50°	181.8	195.9	203.8	206.7	211.1	209.5
52.5°	181.4	192.5	199.2	204.2	206.3	204.5
55°	182.0	189.7	194.5	200.2	202.6	202.8
57.5°	182.8	188.0	191.3	193.9	201.2	201.2
60°	184.8	186.6	188.4	189.9	199.4	199.6
62.5°	188.0	185.2	184.8	186.2	198.4	197.6
65°	193.1	183.2	180.1	181.6	197.4	194.9
67.5°	200.0	180.1	174.3	175.3	196.5	191.3
70°	206.3	175.3	167.0	166.0	188.8	179.5
72.5°	206.9	169.6	156.8	153.8	164.1	155.2
75°	196.8	165.8	145.7	136.8	135.6	134.3
77.5°	177.3	163.5	132.7	118.7	116.3	117.1
80°	148.3	155.2	117.1	100.5	113.7	112.3
82.5°	110.8	137.0	99.5	89.0	88.8	78.4
85°	61.6	106.8	81.1	66.7	46.4	45.0
87.5°	17.2	59.4	56.7	37.7	25.7	26.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)