

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: P193949

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193949
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5298 lumens
Efficiency: N/A
Efficacy: 89.8 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

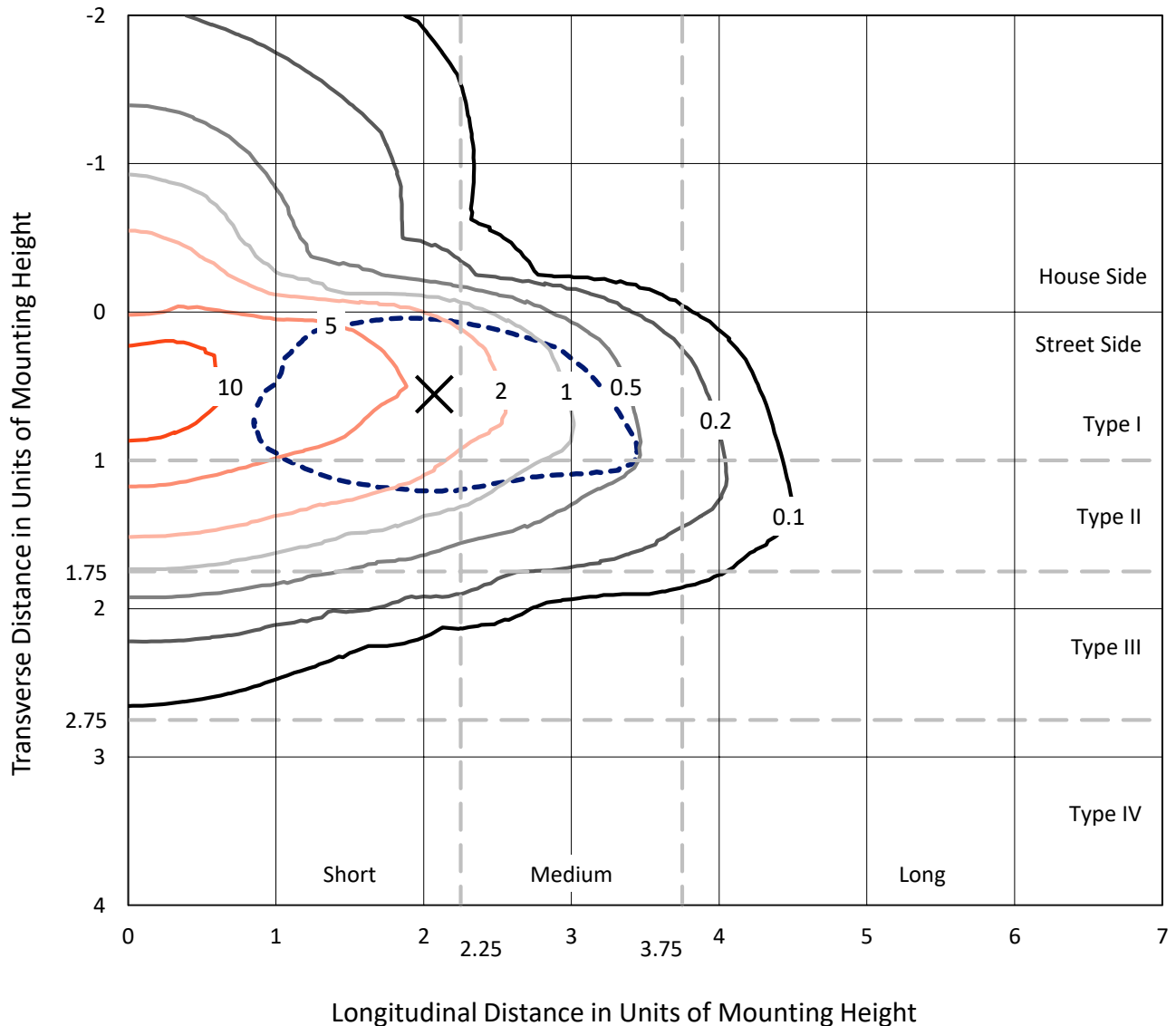
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

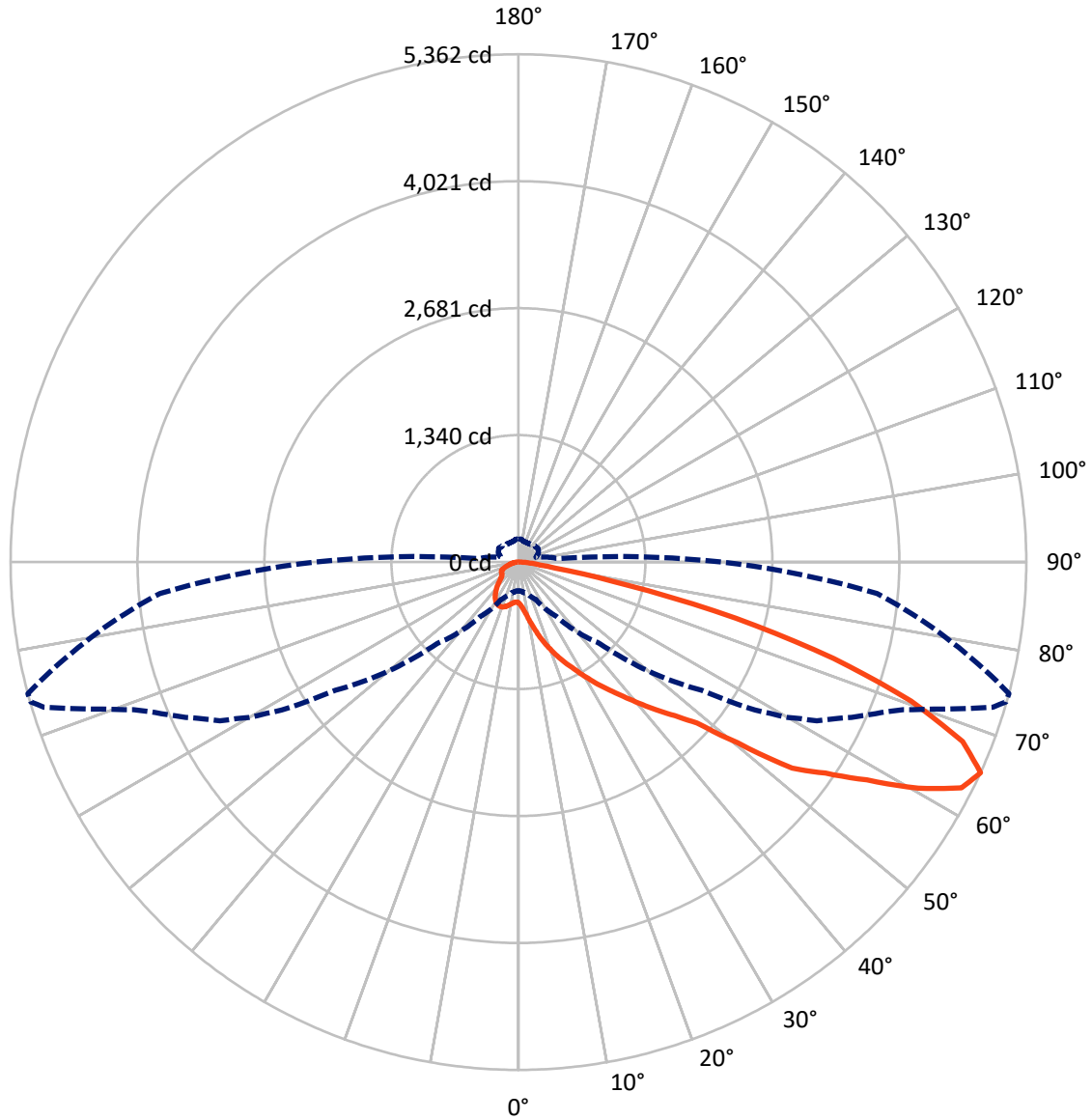
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 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	816.8	0.0	816.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4481.2	0.0	4481.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	5298.0	0.0	5298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.0
10°-20°	207.9	3.9
20°-30°	426.6	8.1
30°-40°	717.8	13.5
40°-50°	991.8	18.7
50°-60°	1238.0	23.4
60°-70°	1114.1	21.0
70°-80°	467.0	8.8
80°-90°	81.6	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°	5298.0	100.0
0°-180°	5298.0	100.0

Coefficient of Utilization



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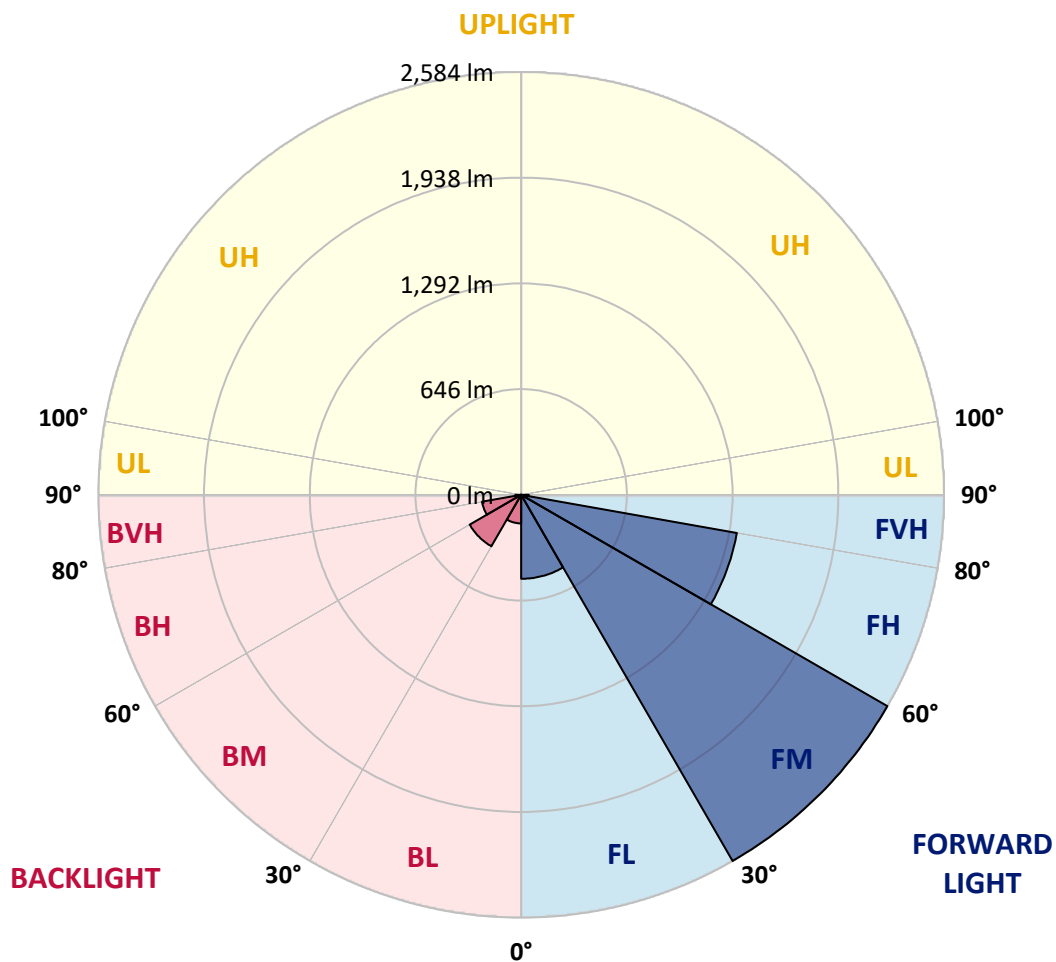
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.1	9.7			
FM	(30°-60°)	2584.0	48.8			
FH	(60°-80°)	1338.3	25.3			G1/1800
FVH	(80°-90°)	45.9	0.9			G1/100
BL	(0°-30°)	174.7	3.3	B1/500		
BM	(30°-60°)	363.6	6.9	B1/1000		
BH	(60°-80°)	242.8	4.6	B1/500		G1/500
BVH	(80°-90°)	35.7	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°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	546.7	540.6	542.2	532.1	519.8	503.8	486.0	485.7	486.0	484.2	477.7
5°	758.1	750.8	748.0	725.5	692.4	645.2	594.1	588.5	586.3	580.5	567.2
7.5°	912.3	908.3	904.0	887.0	856.9	804.2	735.5	723.7	712.4	709.7	694.6
10°	1011.8	1010.8	1001.8	997.3	978.5	932.8	865.9	854.6	842.3	838.1	822.3
12.5°	1090.6	1090.3	1086.1	1087.3	1071.0	1037.9	980.2	970.0	960.9	947.9	936.6
15°	1145.0	1145.2	1151.5	1158.5	1156.0	1133.7	1079.5	1075.0	1067.3	1058.2	1044.9
17.5°	1189.6	1190.9	1197.4	1210.2	1224.0	1222.2	1179.3	1175.6	1168.8	1156.5	1149.5
20°	1290.4	1295.2	1282.7	1282.7	1284.2	1290.9	1270.4	1267.4	1257.8	1251.3	1245.8
22.5°	1460.7	1466.2	1437.9	1409.0	1380.7	1360.2	1339.6	1343.3	1336.8	1332.3	1329.1
25°	1681.9	1686.1	1640.3	1591.6	1533.9	1458.7	1407.8	1405.5	1402.0	1399.3	1397.8
27.5°	1890.0	1891.8	1848.4	1777.2	1710.2	1602.1	1477.0	1474.2	1470.0	1464.7	1460.2
30°	2068.1	2067.6	2022.9	1955.0	1883.2	1763.6	1582.1	1573.6	1561.0	1546.7	1535.7
32.5°	2222.3	2221.5	2172.6	2102.2	2026.9	1923.6	1726.0	1708.5	1688.9	1661.1	1644.3
35°	2343.7	2343.1	2297.0	2223.5	2137.3	2074.3	1891.0	1869.5	1844.6	1807.3	1781.4
37.5°	2389.5	2389.5	2363.7	2313.6	2237.3	2194.2	2074.3	2048.3	2021.7	1979.3	1950.2
40°	2362.7	2363.2	2368.7	2359.4	2322.3	2289.2	2245.4	2229.8	2207.0	2168.9	2138.5
42.5°	2272.7	2275.4	2312.1	2356.9	2375.5	2370.2	2397.1	2390.0	2374.0	2344.7	2320.6
45°	2158.6	2167.1	2207.2	2292.0	2390.3	2440.2	2524.2	2525.0	2521.9	2506.1	2487.6
47.5°	2001.9	2013.9	2066.8	2181.4	2355.7	2508.2	2653.3	2660.1	2666.4	2656.1	2647.6
50°	1793.7	1808.0	1887.3	2039.2	2285.2	2578.6	2897.3	2927.9	2956.5	2953.0	2958.8
52.5°	1570.8	1587.6	1684.6	1853.9	2164.1	2594.9	3053.3	3103.2	3153.1	3194.0	3237.4
55°	1369.7	1360.7	1457.7	1636.0	1965.0	2521.4	3193.5	3253.7	3309.3	3359.5	3411.2
57.5°	1097.1	1111.9	1209.2	1385.5	1701.4	2314.1	3290.0	3378.1	3458.1	3541.1	3614.3
60°	801.9	816.7	922.3	1101.4	1415.3	1999.6	3216.3	3349.7	3477.9	3605.0	3704.3
62.5°	484.2	495.3	588.3	758.8	1091.3	1626.7	2887.8	3062.8	3251.4	3403.4	3555.6
65°	301.4	307.7	342.0	435.8	700.9	1214.5	2359.4	2550.3	2753.4	2946.2	3104.5
67.5°	246.8	249.0	255.3	275.3	384.9	791.9	1756.1	1925.1	2108.4	2295.0	2471.0
70°	221.9	220.4	220.4	221.7	246.8	425.8	1149.8	1259.8	1412.6	1574.8	1735.8
72.5°	200.4	198.9	196.1	192.3	201.4	259.8	594.3	677.3	787.4	931.6	1085.8
75°	180.0	178.0	174.8	170.0	176.3	196.1	285.4	320.2	373.9	450.6	536.6
77.5°	159.0	156.5	153.5	150.0	158.0	152.5	167.3	179.8	200.4	224.9	257.3
80°	135.2	132.9	131.9	130.1	139.7	116.1	118.1	125.9	137.9	151.2	166.3
82.5°	105.8	105.8	109.8	110.6	121.1	83.5	88.3	95.0	101.3	108.3	115.4
85°	69.7	70.2	83.8	89.0	95.5	56.2	66.2	68.5	73.5	77.5	80.5
87.5°	21.8	23.6	51.2	56.7	54.9	31.8	40.6	41.6	45.1	47.9	50.4
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°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	477.7	474.7	471.9	471.7	469.7	466.9	467.9	463.7	463.9	461.7	459.2
5°	561.7	559.7	549.7	546.9	539.4	534.6	533.9	523.8	522.6	516.8	510.6
7.5°	682.6	676.1	662.0	655.2	642.5	632.9	628.4	615.1	608.6	593.6	586.8
10°	809.2	800.9	783.6	774.1	761.8	746.5	738.3	718.9	711.4	697.6	681.1
12.5°	926.6	918.3	900.5	893.2	876.9	860.6	851.6	829.8	820.0	797.9	784.9
15°	1035.2	1026.9	1011.3	1003.8	987.5	974.2	962.2	940.6	929.1	908.5	891.5
17.5°	1140.5	1131.7	1118.2	1111.4	1095.6	1082.1	1069.0	1048.7	1036.9	1016.4	1001.1
20°	1238.3	1231.8	1222.0	1213.0	1197.2	1184.9	1169.3	1151.8	1134.7	1119.7	1105.1
22.5°	1323.5	1321.0	1310.5	1306.5	1292.9	1282.4	1268.9	1251.6	1239.3	1220.2	1206.7
25°	1397.0	1396.3	1391.2	1390.0	1380.5	1370.4	1367.4	1353.1	1341.8	1325.0	1311.0
27.5°	1460.2	1461.0	1459.7	1463.2	1460.7	1456.2	1456.4	1451.7	1445.2	1431.1	1418.8
30°	1530.4	1526.4	1528.7	1533.7	1535.2	1535.7	1544.0	1546.7	1546.2	1536.9	1530.9
32.5°	1629.7	1620.2	1611.4	1610.7	1615.7	1617.7	1631.7	1639.0	1645.3	1647.5	1648.5
35°	1756.4	1737.3	1719.0	1709.2	1700.7	1702.9	1713.0	1724.8	1738.6	1748.1	1759.4
37.5°	1915.8	1892.5	1860.2	1837.1	1831.3	1818.8	1825.3	1834.6	1848.1	1862.9	1882.5
40°	2109.2	2073.8	2037.5	2006.9	1990.3	1967.3	1967.0	1965.2	1973.5	1987.3	2014.9
42.5°	2295.3	2263.9	2225.3	2193.2	2171.6	2140.8	2134.5	2118.2	2122.0	2134.0	2160.8
45°	2469.5	2443.7	2420.1	2383.0	2364.7	2331.4	2320.8	2301.5	2290.7	2296.3	2323.1
47.5°	2638.3	2621.8	2597.2	2573.1	2559.1	2529.2	2515.7	2501.9	2488.1	2487.6	2515.7
50°	2967.3	2958.5	2929.4	2904.4	2911.1	2874.5	2876.8	2839.7	2856.5	2858.5	2917.4
52.5°	3276.5	3307.1	3328.7	3355.0	3372.0	3375.3	3386.6	3403.4	3423.7	3463.8	3518.5
55°	3453.5	3491.9	3514.2	3534.3	3567.4	3574.4	3593.2	3615.5	3633.3	3678.5	3724.9
57.5°	3663.9	3735.1	3769.8	3801.6	3846.2	3863.3	3894.6	3919.0	3942.0	3995.4	4051.6
60°	3793.6	3880.3	3950.8	4001.2	4057.1	4097.3	4144.6	4182.8	4236.9	4300.9	4384.6
62.5°	3690.5	3817.9	3911.4	3997.9	4073.9	4150.7	4218.6	4289.8	4372.1	4468.9	4598.8
65°	3280.0	3409.7	3569.9	3659.7	3760.2	3878.6	3981.9	4097.3	4209.3	4350.3	4542.4
67.5°	2640.6	2791.3	2971.3	3061.8	3177.4	3309.6	3425.5	3566.4	3697.3	3868.1	4105.5
70°	1903.3	2098.2	2249.6	2344.2	2479.1	2615.2	2727.1	2891.1	2999.4	3174.4	3419.9
72.5°	1205.2	1358.9	1544.5	1663.6	1783.4	1921.4	2035.7	2177.1	2278.2	2437.7	2660.1
75°	648.0	761.3	924.3	1037.4	1165.8	1283.7	1417.6	1512.4	1587.1	1713.2	1893.8
77.5°	303.7	372.6	455.1	542.2	629.2	719.9	808.2	885.0	917.0	989.3	1095.8
80°	184.3	206.6	230.7	257.5	293.9	323.2	362.1	390.2	392.2	415.0	447.6
82.5°	123.1	131.4	138.7	145.4	154.7	162.0	170.3	180.0	184.1	189.3	199.9
85°	84.0	88.0	89.5	93.8	92.8	95.3	98.6	101.8	103.6	103.3	108.1
87.5°	51.7	53.7	54.7	55.7	54.9	53.9	55.4	57.2	57.7	56.2	56.7
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	459.7	457.4	455.1	453.6	453.1	439.8	434.1	430.3	422.3	415.8	410.5
5°	507.0	502.3	498.5	494.0	491.5	457.9	445.6	437.1	423.0	414.8	407.2
7.5°	583.3	570.0	562.2	553.4	545.9	485.2	464.9	451.6	432.1	421.0	412.5
10°	669.8	656.0	643.7	630.2	618.4	521.6	492.0	471.4	445.6	431.3	420.0
12.5°	766.3	752.8	737.2	719.9	704.9	567.7	526.6	497.3	461.9	442.9	427.1
15°	880.4	856.6	837.8	817.7	800.2	622.9	567.0	526.4	479.2	453.4	432.3
17.5°	986.5	961.4	935.9	918.3	898.0	684.8	607.6	555.9	493.5	460.2	433.3
20°	1090.1	1062.7	1040.7	1017.1	995.8	749.0	651.0	582.0	502.8	460.4	427.1
22.5°	1181.4	1164.3	1139.7	1114.1	1092.6	813.2	691.6	604.1	506.3	454.6	416.0
25°	1285.2	1267.1	1237.0	1215.5	1191.4	878.7	731.5	621.1	504.3	443.9	399.0
27.5°	1396.0	1375.9	1345.1	1322.5	1293.4	946.6	768.1	633.4	496.8	426.3	376.1
30°	1511.6	1493.3	1463.0	1440.1	1410.8	1018.6	809.0	641.7	481.7	402.0	349.6
32.5°	1635.7	1620.4	1590.4	1566.5	1535.2	1096.6	847.1	644.2	458.9	373.1	321.5
35°	1753.6	1743.1	1717.7	1695.4	1662.8	1170.3	887.5	643.0	431.8	341.5	295.9
37.5°	1886.3	1880.0	1867.4	1839.1	1799.2	1270.4	935.9	637.7	398.7	310.2	276.3
40°	2027.7	2028.2	2014.6	1995.3	1958.2	1391.7	993.5	627.4	362.6	282.6	258.5
42.5°	2177.4	2185.2	2178.6	2164.9	2129.2	1514.1	1062.5	614.9	327.5	255.8	241.0
45°	2348.9	2358.4	2368.5	2348.2	2313.6	1675.6	1153.3	598.6	289.6	233.5	228.9
47.5°	2546.8	2561.8	2570.8	2571.1	2536.5	1875.7	1300.7	588.8	256.0	218.4	223.2
50°	2964.3	2969.1	2990.4	3027.5	3000.9	2338.9	1558.3	582.8	233.2	209.1	218.9
52.5°	3565.9	3618.3	3655.2	3652.6	3616.5	2633.0	1700.2	551.7	219.7	205.6	216.9
55°	3810.9	3876.3	3944.5	3962.6	3934.5	2884.1	1834.3	520.6	213.2	208.1	217.7
57.5°	4137.4	4247.7	4341.2	4380.6	4340.0	3205.3	2010.9	504.3	211.1	214.9	222.4
60°	4518.8	4655.2	4778.1	4848.8	4848.8	3574.4	2193.9	497.5	208.4	224.9	230.5
62.5°	4763.8	4964.1	5149.7	5253.3	5250.3	3831.4	2275.2	474.4	202.1	232.0	241.5
65°	4764.8	5003.0	5239.5	5355.8	5361.9	3799.8	2141.0	419.0	190.6	233.0	252.5
67.5°	4367.6	4621.6	4897.2	5027.3	5057.4	3497.9	1853.4	344.6	171.8	222.9	256.5
70°	3688.8	3936.8	4218.1	4346.0	4399.4	2981.8	1492.8	265.6	147.7	200.9	248.3
72.5°	2906.1	3149.4	3345.2	3438.7	3480.4	2279.2	1087.1	200.6	121.1	169.3	225.9
75°	2057.5	2240.1	2344.2	2365.0	2371.5	1373.9	660.5	149.2	99.8	131.7	190.8
77.5°	1161.3	1239.5	1231.0	1240.3	1163.0	530.4	287.6	106.8	82.3	100.1	148.0
80°	453.4	467.4	439.1	430.3	394.7	197.4	126.9	74.5	65.7	75.7	103.6
82.5°	199.9	206.4	200.4	201.9	193.1	101.8	76.0	53.9	50.2	55.4	68.7
85°	110.1	112.1	111.6	114.9	110.1	40.6	36.1	33.1	35.1	37.6	44.1
87.5°	53.7	54.2	52.4	55.2	53.4	20.6	17.8	18.8	20.6	21.1	21.1
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-T2R-8030

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	406.7	404.7	405.0	404.5	403.5	403.5
5°	403.2	401.2	401.2	400.7	399.5	399.7
7.5°	406.7	403.5	402.2	400.5	398.7	398.7
10°	410.8	405.0	401.5	398.5	396.2	396.2
12.5°	413.8	404.7	399.0	395.0	392.7	392.7
15°	414.8	403.0	395.0	390.2	388.2	387.9
17.5°	411.5	396.2	386.4	380.9	378.4	377.7
20°	401.5	383.9	372.1	365.9	362.4	361.1
22.5°	386.4	366.4	352.6	346.1	341.5	340.8
25°	365.4	343.8	330.3	324.0	321.5	320.7
27.5°	340.8	320.7	309.2	305.2	302.9	302.7
30°	317.5	300.4	291.9	288.9	286.1	285.6
32.5°	295.7	284.9	281.6	277.3	270.8	270.1
35°	280.1	279.1	276.8	267.3	259.3	257.0
37.5°	270.6	279.9	268.3	249.5	243.7	243.2
40°	265.1	272.1	252.3	245.7	246.3	245.7
42.5°	252.5	259.8	252.8	249.8	251.8	252.3
45°	240.0	248.0	256.5	254.5	259.3	259.3
47.5°	233.0	245.0	256.3	256.3	263.3	265.8
50°	224.9	242.5	252.3	255.8	261.3	259.3
52.5°	224.4	238.2	246.5	252.8	255.3	253.0
55°	225.2	234.7	240.7	247.8	250.8	251.0
57.5°	226.2	232.7	236.7	240.0	249.0	249.0
60°	228.7	231.0	233.2	235.0	246.8	247.0
62.5°	232.7	229.2	228.7	230.5	245.5	244.5
65°	239.0	226.7	222.9	224.7	244.2	241.2
67.5°	247.5	222.9	215.7	216.9	243.2	236.7
70°	255.3	216.9	206.6	205.4	233.7	222.2
72.5°	256.0	209.9	194.1	190.3	203.1	192.1
75°	243.5	205.1	180.3	169.3	167.8	166.3
77.5°	219.4	202.4	164.3	146.9	143.9	144.9
80°	183.6	192.1	144.9	124.4	140.7	138.9
82.5°	137.2	169.5	123.1	110.1	109.8	97.0
85°	76.2	132.2	100.3	82.5	57.4	55.7
87.5°	21.3	73.5	70.2	46.6	31.8	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)