

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: P192199

Luminaire Tested: **GLEON-AF-01-LED-E1-T2R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192199
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 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: 5246 lumens
Efficiency: N/A
Efficacy: 119.2 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 (A_{in}): 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

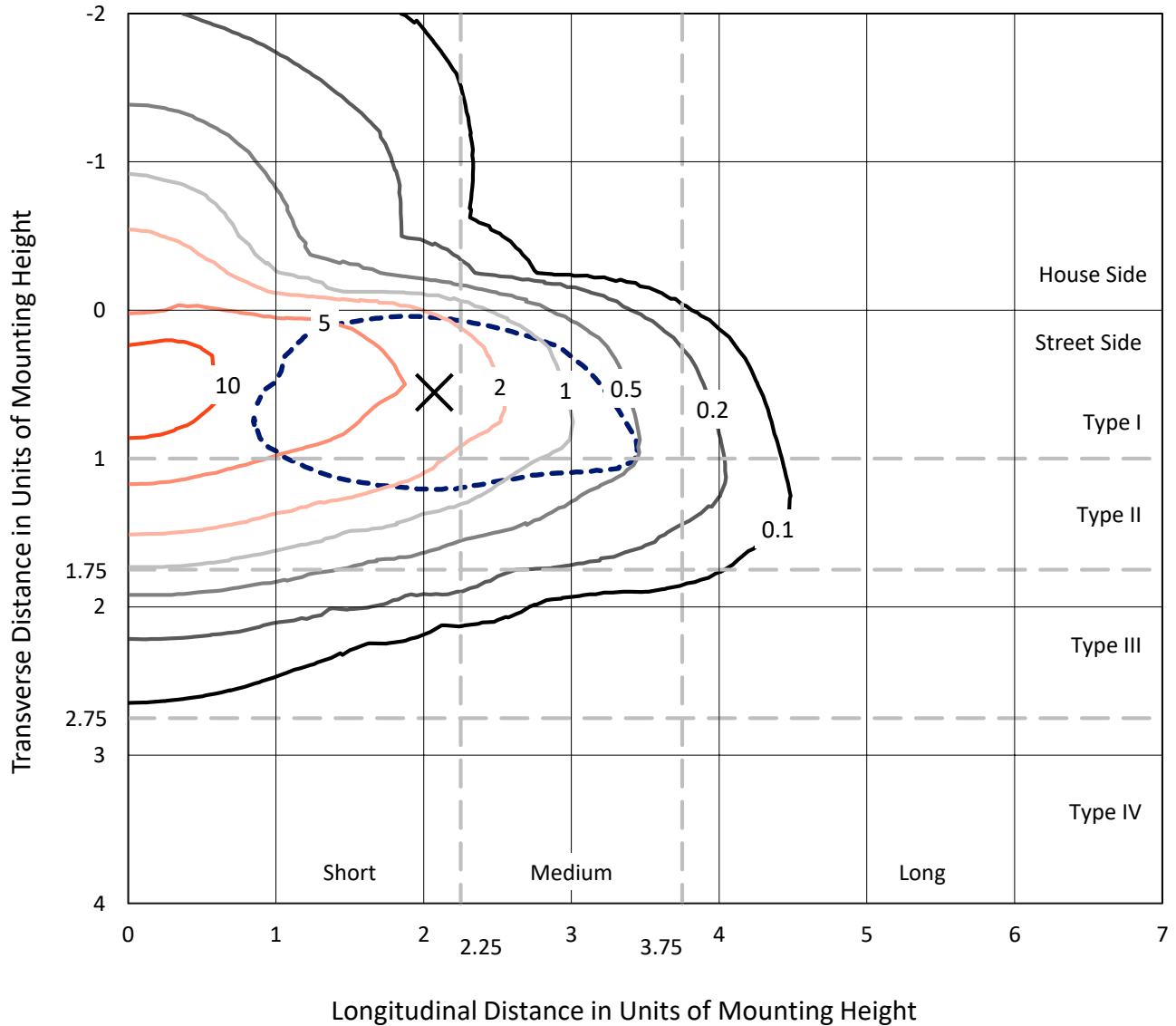


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Iso-Footcandle Lines of Horizontal Illumination

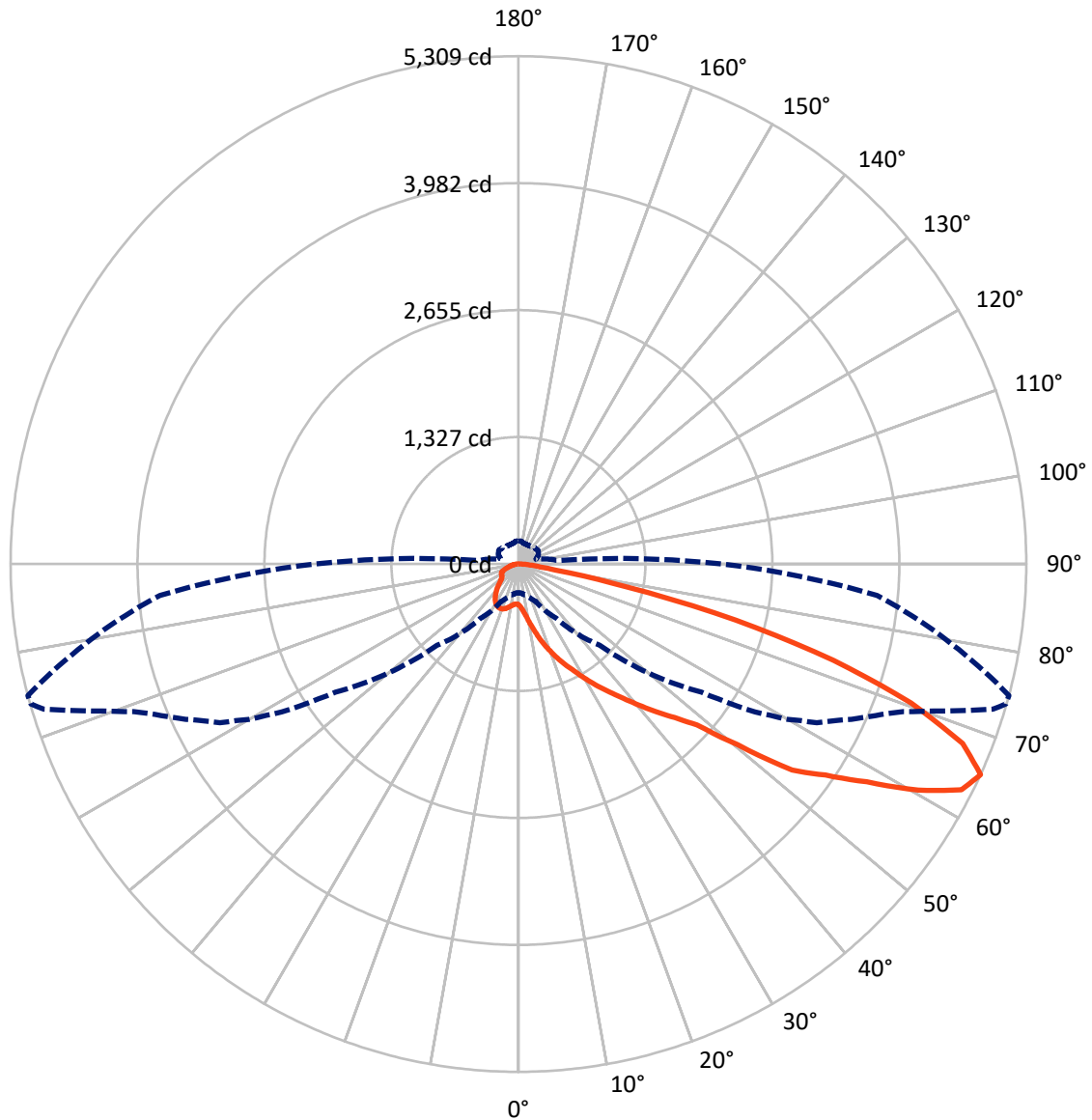
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 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	808.8	0.0	808.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4437.2	0.0	4437.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	5246.0	0.0	5246.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.0
10°-20°	205.9	3.9
20°-30°	422.4	8.1
30°-40°	710.7	13.5
40°-50°	982.0	18.7
50°-60°	1225.9	23.4
60°-70°	1103.1	21.0
70°-80°	462.4	8.8
80°-90°	80.8	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°	5246.0	100.0
0°-180°	5246.0	100.0



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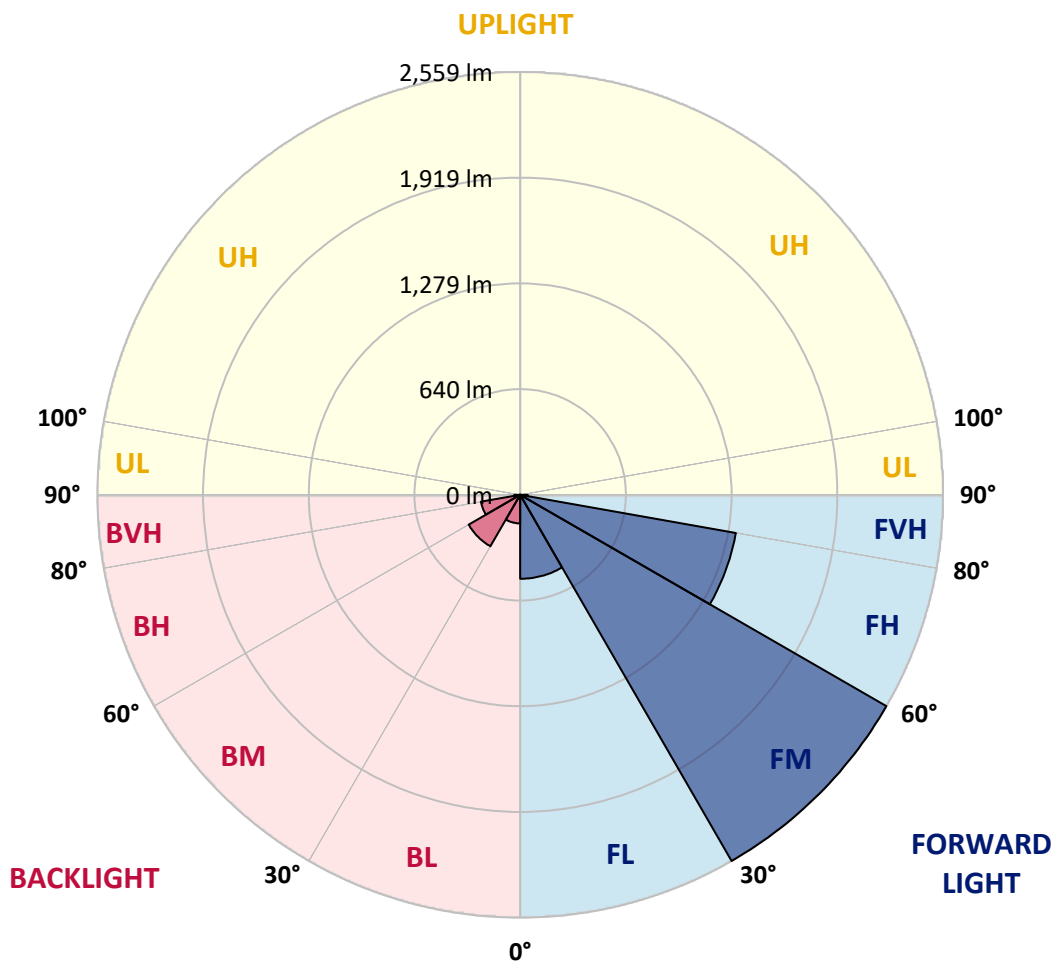
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	508.1	9.7			
FM	(30°-60°)	2558.6	48.8			
FH	(60°-80°)	1325.1	25.3			G1/1800
FVH	(80°-90°)	45.4	0.9			G1/100
BL	(0°-30°)	173.0	3.3	B1/500		
BM	(30°-60°)	360.0	6.9	B1/1000		
BH	(60°-80°)	240.4	4.6	B1/500		G1/500
BVH	(80°-90°)	35.4	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°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3
2.5°	541.3	535.3	536.8	526.9	514.7	498.8	481.2	481.0	481.2	479.5	473.0
5°	750.6	743.4	740.7	718.3	685.6	638.9	588.2	582.8	580.5	574.8	561.7
7.5°	903.3	899.4	895.1	878.3	848.5	796.3	728.3	716.6	705.4	702.7	687.8
10°	1001.9	1000.9	992.0	987.5	968.9	923.7	857.4	846.2	834.1	829.8	814.2
12.5°	1079.9	1079.6	1075.4	1076.6	1060.5	1027.7	970.6	960.4	951.5	938.6	927.4
15°	1133.8	1134.0	1140.2	1147.2	1144.7	1122.6	1068.9	1064.5	1056.8	1047.8	1034.7
17.5°	1178.0	1179.2	1185.7	1198.3	1212.0	1210.2	1167.8	1164.0	1157.3	1145.2	1138.2
20°	1277.8	1282.5	1270.1	1270.1	1271.6	1278.3	1257.9	1254.9	1245.5	1239.0	1233.6
22.5°	1446.4	1451.8	1423.8	1395.2	1367.2	1346.8	1326.4	1330.2	1323.7	1319.2	1316.0
25°	1665.4	1669.6	1624.2	1576.0	1518.9	1444.4	1394.0	1391.7	1388.3	1385.5	1384.0
27.5°	1871.5	1873.2	1830.2	1759.7	1693.4	1586.4	1462.5	1459.8	1455.6	1450.3	1445.9
30°	2047.8	2047.3	2003.1	1935.8	1864.8	1746.3	1566.5	1558.1	1545.7	1531.5	1520.6
32.5°	2200.5	2199.7	2151.3	2081.5	2007.0	1904.7	1709.1	1691.7	1672.3	1644.8	1628.1
35°	2320.6	2320.2	2274.5	2201.7	2116.3	2054.0	1872.5	1851.1	1826.5	1789.5	1764.0
37.5°	2366.1	2366.1	2340.5	2290.9	2215.4	2172.7	2054.0	2028.1	2001.8	1959.9	1931.1
40°	2339.5	2340.0	2345.5	2336.3	2299.5	2266.8	2223.3	2207.9	2185.3	2147.6	2117.5
42.5°	2250.4	2253.1	2289.4	2333.8	2352.2	2347.0	2373.5	2366.6	2350.7	2321.6	2297.8
45°	2137.4	2145.8	2185.6	2269.5	2366.8	2416.2	2499.4	2500.2	2497.2	2481.5	2463.2
47.5°	1982.2	1994.1	2046.5	2160.0	2332.6	2483.5	2627.3	2634.0	2640.2	2630.0	2621.6
50°	1776.1	1790.3	1868.7	2019.2	2262.8	2553.3	2868.9	2899.2	2927.5	2924.0	2929.7
52.5°	1555.4	1572.0	1668.1	1835.7	2142.9	2569.4	3023.3	3072.8	3122.2	3162.6	3205.6
55°	1356.2	1347.3	1443.4	1619.9	1945.7	2496.7	3162.2	3221.7	3276.9	3326.5	3377.7
57.5°	1086.3	1101.0	1197.3	1371.9	1684.7	2291.3	3257.7	3344.9	3424.1	3506.3	3578.8
60°	794.1	808.7	913.3	1090.6	1401.4	1980.0	3184.7	3316.8	3443.7	3569.6	3667.9
62.5°	479.5	490.4	582.5	751.4	1080.6	1610.7	2859.5	3032.8	3219.5	3370.0	3520.7
65°	298.5	304.7	338.7	431.6	694.0	1202.5	2336.3	2525.3	2726.4	2917.3	3074.0
67.5°	244.3	246.6	252.8	272.6	381.1	784.1	1738.9	1906.2	2087.7	2272.5	2446.8
70°	219.7	218.3	218.3	219.5	244.3	421.6	1138.5	1247.5	1398.7	1559.3	1718.8
72.5°	198.4	196.9	194.2	190.4	199.4	257.2	588.5	670.7	779.7	922.4	1075.2
75°	178.3	176.3	173.1	168.4	174.6	194.2	282.6	317.1	370.2	446.2	531.4
77.5°	157.4	154.9	152.0	148.5	156.4	151.0	165.6	178.0	198.4	222.7	254.8
80°	133.8	131.6	130.6	128.9	138.3	115.0	117.0	124.6	136.6	149.7	164.6
82.5°	104.8	104.8	108.8	109.5	119.9	82.7	87.4	94.1	100.3	107.3	114.2
85°	69.0	69.5	82.9	88.1	94.6	55.6	65.6	67.8	72.8	76.7	79.7
87.5°	21.6	23.3	50.7	56.1	54.4	31.5	40.2	41.2	44.7	47.4	49.9
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3
2.5°	473.0	470.0	467.3	467.1	465.1	462.3	463.3	459.1	459.4	457.1	454.6
5°	556.2	554.2	544.3	541.6	534.1	529.4	528.6	518.7	517.5	511.8	505.5
7.5°	675.9	669.4	655.5	648.8	636.2	626.7	622.2	609.1	602.6	587.7	581.0
10°	801.3	793.1	775.9	766.5	754.3	739.2	731.0	711.9	704.4	690.8	674.4
12.5°	917.5	909.3	891.7	884.5	868.3	852.2	843.2	821.6	812.0	790.1	777.2
15°	1025.0	1016.8	1001.4	994.0	977.8	964.7	952.7	931.4	920.0	899.6	882.7
17.5°	1129.3	1120.6	1107.2	1100.5	1084.8	1071.4	1058.5	1038.4	1026.7	1006.4	991.2
20°	1226.1	1219.7	1210.0	1201.0	1185.4	1173.2	1157.8	1140.5	1123.6	1108.7	1094.3
22.5°	1310.5	1308.1	1297.6	1293.7	1280.3	1269.8	1256.4	1239.3	1227.1	1208.2	1194.8
25°	1383.3	1382.6	1377.6	1376.3	1366.9	1357.0	1354.0	1339.8	1328.7	1312.0	1298.1
27.5°	1445.9	1446.6	1445.4	1448.9	1446.4	1441.9	1442.1	1437.4	1431.0	1417.1	1404.9
30°	1515.4	1511.4	1513.7	1518.6	1520.1	1520.6	1528.8	1531.5	1531.0	1521.9	1515.9
32.5°	1613.7	1604.3	1595.6	1594.9	1599.8	1601.8	1615.7	1622.9	1629.1	1631.4	1632.4
35°	1739.1	1720.2	1702.1	1692.4	1684.0	1686.2	1696.2	1707.8	1721.5	1730.9	1742.1
37.5°	1897.0	1873.9	1841.9	1819.1	1813.4	1800.9	1807.4	1816.6	1830.0	1844.6	1864.0
40°	2088.5	2053.5	2017.5	1987.2	1970.8	1947.9	1947.7	1946.0	1954.2	1967.8	1995.1
42.5°	2272.7	2241.7	2203.4	2171.7	2150.3	2119.8	2113.6	2097.4	2101.1	2113.1	2139.6
45°	2445.3	2419.7	2396.4	2359.6	2341.5	2308.5	2298.1	2278.9	2268.3	2273.7	2300.3
47.5°	2612.4	2596.0	2571.7	2547.8	2533.9	2504.4	2491.0	2477.3	2463.7	2463.2	2491.0
50°	2938.2	2929.5	2900.7	2875.9	2882.6	2846.3	2848.5	2811.8	2828.4	2830.4	2888.8
52.5°	3244.3	3274.6	3296.0	3322.1	3338.9	3342.2	3353.3	3370.0	3390.1	3429.8	3484.0
55°	3419.6	3457.6	3479.7	3499.6	3532.4	3539.3	3557.9	3580.0	3597.7	3642.4	3688.3
57.5°	3628.0	3698.5	3732.8	3764.3	3808.5	3825.4	3856.4	3880.5	3903.3	3956.2	4011.8
60°	3756.3	3842.3	3912.0	3961.9	4017.3	4057.0	4104.0	4141.7	4195.3	4258.7	4341.6
62.5°	3654.3	3780.4	3873.0	3958.7	4033.9	4109.9	4177.2	4247.7	4329.2	4425.0	4553.6
65°	3247.8	3376.2	3534.9	3623.7	3723.3	3840.5	3942.8	4057.0	4168.0	4307.6	4497.8
67.5°	2614.6	2763.9	2942.2	3031.8	3146.3	3277.1	3391.8	3531.4	3661.0	3830.1	4065.2
70°	1884.6	2077.6	2227.5	2321.1	2454.7	2589.6	2700.3	2862.7	2970.0	3143.3	3386.4
72.5°	1193.3	1345.6	1529.3	1647.2	1765.9	1902.5	2015.7	2155.8	2255.8	2413.8	2634.0
75°	641.6	753.9	915.2	1027.2	1154.4	1271.1	1403.7	1497.5	1571.5	1696.4	1875.2
77.5°	300.7	369.0	450.7	536.8	623.0	712.9	800.3	876.3	908.0	979.6	1085.1
80°	182.5	204.6	228.4	255.0	291.0	320.1	358.6	386.4	388.3	410.9	443.2
82.5°	121.9	130.1	137.3	144.0	153.2	160.4	168.6	178.3	182.3	187.5	197.9
85°	83.2	87.2	88.6	92.9	91.9	94.4	97.6	100.8	102.5	102.3	107.0
87.5°	51.2	53.1	54.1	55.1	54.4	53.4	54.9	56.6	57.1	55.6	56.1
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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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3	426.3
2.5°	455.1	452.9	450.7	449.2	448.7	435.5	429.8	426.1	418.1	411.7	406.5
5°	502.1	497.4	493.6	489.2	486.7	453.4	441.2	432.8	418.9	410.7	403.2
7.5°	577.6	564.4	556.7	548.0	540.6	480.5	460.4	447.2	427.8	416.9	408.5
10°	663.2	649.6	637.4	624.0	612.3	516.5	487.2	466.8	441.2	427.1	415.9
12.5°	758.8	745.4	730.0	712.9	698.0	562.2	521.4	492.4	457.4	438.5	422.9
15°	871.8	848.2	829.6	809.7	792.3	616.8	561.4	521.2	474.5	448.9	428.1
17.5°	976.8	952.0	926.7	909.3	889.2	678.1	601.6	550.5	488.7	455.6	429.1
20°	1079.4	1052.3	1030.5	1007.1	986.0	741.7	644.6	576.3	497.8	455.9	422.9
22.5°	1169.8	1152.9	1128.5	1103.2	1081.9	805.2	684.8	598.2	501.3	450.2	411.9
25°	1272.6	1254.7	1224.9	1203.5	1179.7	870.1	724.3	615.0	499.3	439.5	395.1
27.5°	1382.3	1362.4	1331.9	1309.6	1280.8	937.3	760.6	627.2	491.9	422.1	372.5
30°	1496.8	1478.6	1448.6	1426.0	1397.0	1008.6	801.0	635.4	477.0	398.0	346.1
32.5°	1619.7	1604.5	1574.7	1551.2	1520.1	1085.8	838.8	637.9	454.4	369.5	318.3
35°	1736.4	1726.0	1700.9	1678.8	1646.5	1158.8	878.7	636.7	427.6	338.2	293.0
37.5°	1867.7	1861.5	1849.1	1821.1	1781.6	1257.9	926.7	631.4	394.8	307.2	273.6
40°	2007.8	2008.3	1994.9	1975.8	1939.0	1378.1	983.8	621.3	359.0	279.8	256.0
42.5°	2156.0	2163.7	2157.3	2143.6	2108.3	1499.3	1052.1	608.8	324.3	253.3	238.6
45°	2325.9	2335.3	2345.2	2325.1	2290.9	1659.2	1141.9	592.7	286.8	231.2	226.7
47.5°	2521.8	2536.7	2545.6	2545.9	2511.6	1857.3	1288.0	583.0	253.5	216.3	221.0
50°	2935.2	2939.9	2961.0	2997.8	2971.5	2315.9	1543.0	577.1	230.9	207.1	216.8
52.5°	3530.9	3582.8	3619.3	3616.8	3581.0	2607.2	1683.5	546.3	217.5	203.6	214.8
55°	3773.5	3838.3	3905.8	3923.7	3895.9	2855.7	1816.3	515.5	211.1	206.1	215.5
57.5°	4096.8	4206.0	4298.6	4337.6	4297.4	3173.8	1991.1	499.3	209.1	212.8	220.2
60°	4474.4	4609.5	4731.2	4801.2	4801.2	3539.3	2172.4	492.6	206.3	222.7	228.2
62.5°	4717.0	4915.4	5099.2	5201.7	5198.7	3793.8	2252.9	469.8	200.1	229.7	239.1
65°	4718.0	4953.9	5188.1	5303.3	5309.2	3762.5	2120.0	414.9	188.7	230.7	250.0
67.5°	4324.7	4576.2	4849.1	4978.0	5007.8	3463.6	1835.2	341.2	170.1	220.7	254.0
70°	3652.6	3898.1	4176.7	4303.4	4356.2	2952.6	1478.2	263.0	146.3	198.9	245.8
72.5°	2877.6	3118.4	3312.4	3405.0	3446.2	2256.8	1076.4	198.6	119.9	167.6	223.7
75°	2037.3	2218.1	2321.1	2341.8	2348.2	1360.5	654.0	147.7	98.8	130.4	189.0
77.5°	1149.9	1227.4	1218.9	1228.1	1151.6	525.2	284.8	105.8	81.4	99.1	146.5
80°	448.9	462.8	434.8	426.1	390.8	195.4	125.6	73.7	65.1	75.0	102.5
82.5°	197.9	204.4	198.4	199.9	191.2	100.8	75.2	53.4	49.7	54.9	68.0
85°	109.0	111.0	110.5	113.7	109.0	40.2	35.8	32.8	34.8	37.2	43.7
87.5°	53.1	53.6	51.9	54.6	52.9	20.4	17.6	18.6	20.4	20.9	20.9
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: P192199

CATALOG NUMBER: GLEON-AF-01-LED-E1-T2R-7050-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	426.3	426.3	426.3	426.3	426.3	426.3
2.5°	402.7	400.8	401.0	400.5	399.5	399.5
5°	399.3	397.3	397.3	396.8	395.5	395.8
7.5°	402.7	399.5	398.3	396.5	394.8	394.8
10°	406.7	401.0	397.5	394.6	392.3	392.3
12.5°	409.7	400.8	395.1	391.1	388.8	388.8
15°	410.7	399.0	391.1	386.4	384.4	384.1
17.5°	407.5	392.3	382.6	377.2	374.7	373.9
20°	397.5	380.2	368.5	362.3	358.8	357.6
22.5°	382.6	362.8	349.1	342.7	338.2	337.4
25°	361.8	340.4	327.0	320.8	318.3	317.6
27.5°	337.4	317.6	306.2	302.2	300.0	299.7
30°	314.4	297.5	289.0	286.0	283.3	282.8
32.5°	292.8	282.1	278.8	274.6	268.2	267.4
35°	277.4	276.4	274.1	264.7	256.7	254.5
37.5°	267.9	277.1	265.7	247.1	241.4	240.9
40°	262.5	269.4	249.8	243.3	243.8	243.3
42.5°	250.0	257.2	250.3	247.3	249.3	249.8
45°	237.6	245.6	254.0	252.0	256.7	256.7
47.5°	230.7	242.6	253.8	253.8	260.7	263.2
50°	222.7	240.1	249.8	253.3	258.7	256.7
52.5°	222.2	235.9	244.1	250.3	252.8	250.5
55°	223.0	232.4	238.4	245.3	248.3	248.6
57.5°	224.0	230.4	234.4	237.6	246.6	246.6
60°	226.5	228.7	230.9	232.7	244.3	244.6
62.5°	230.4	226.9	226.5	228.2	243.1	242.1
65°	236.6	224.5	220.7	222.5	241.8	238.9
67.5°	245.1	220.7	213.5	214.8	240.9	234.4
70°	252.8	214.8	204.6	203.4	231.4	220.0
72.5°	253.5	207.8	192.2	188.5	201.1	190.2
75°	241.1	203.1	178.5	167.6	166.1	164.6
77.5°	217.3	200.4	162.6	145.5	142.5	143.5
80°	181.8	190.2	143.5	123.2	139.3	137.6
82.5°	135.8	167.9	121.9	109.0	108.8	96.1
85°	75.5	130.9	99.3	81.7	56.9	55.1
87.5°	21.1	72.8	69.5	46.2	31.5	32.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)