

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: P193886

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193886
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-08-LED-E1-SLR-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37528 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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

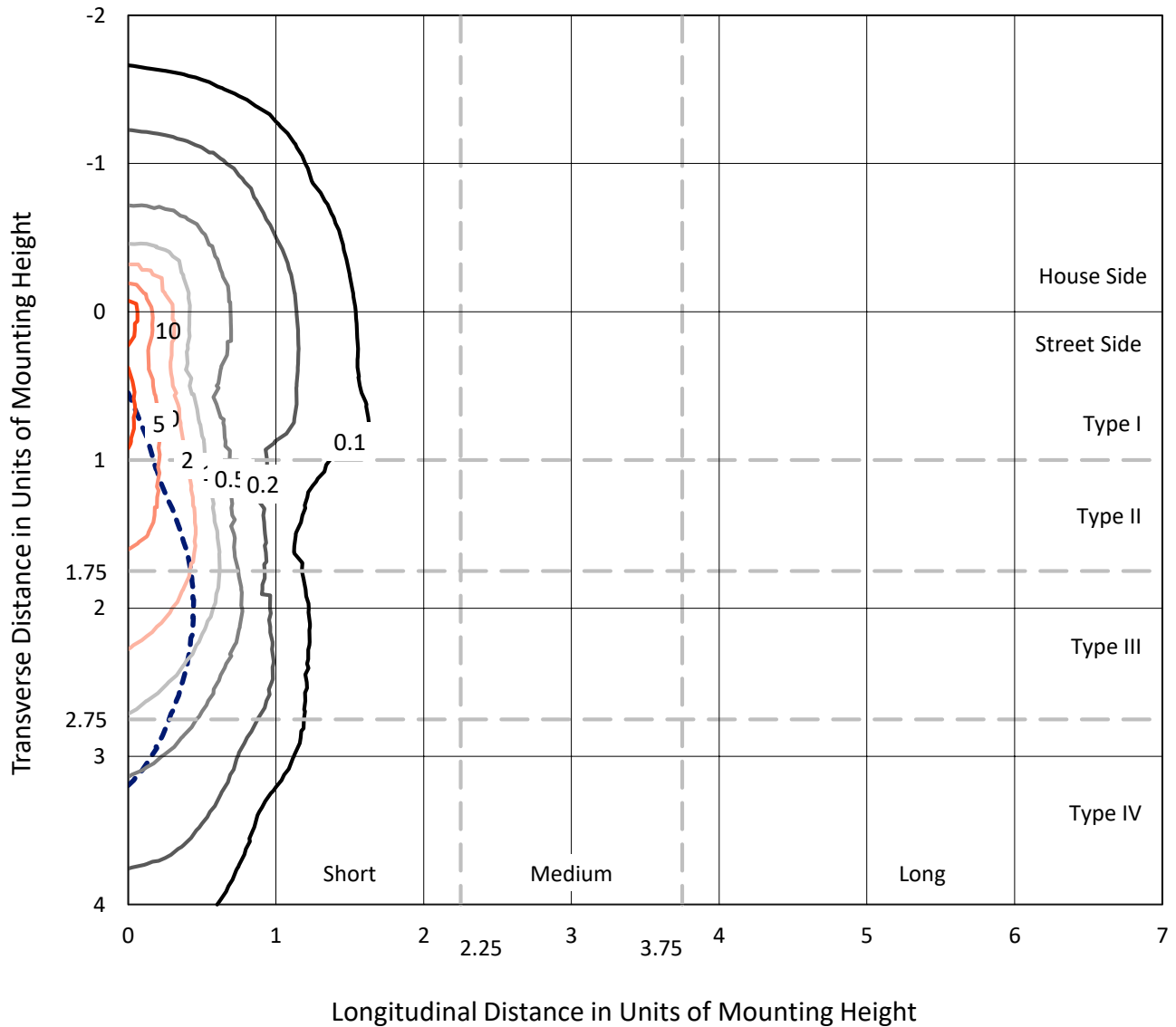


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

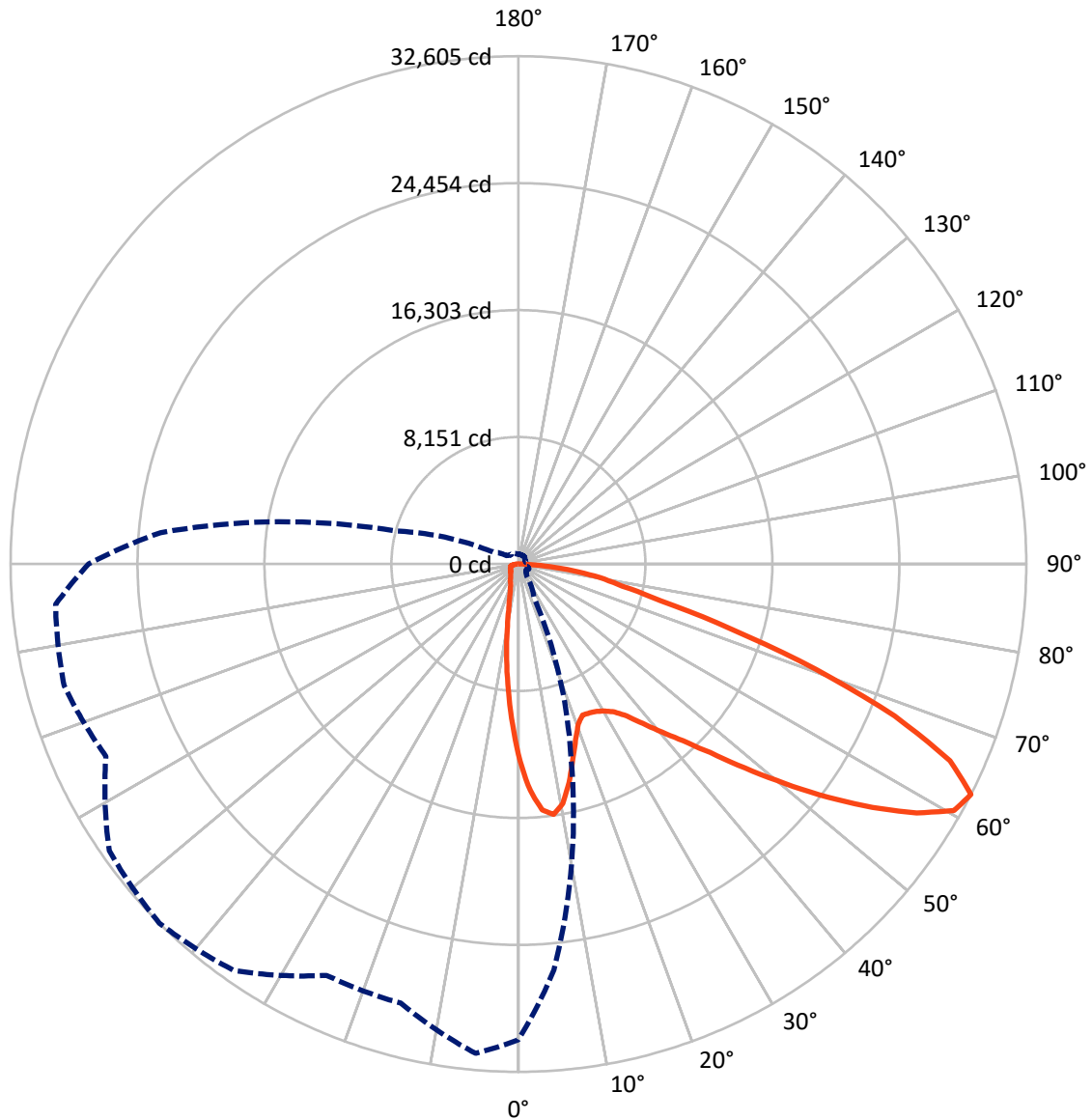


Based on 30 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6210.4	0.0	6210.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	31317.6	0.0	31317.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	37528.0	0.0	37528.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.0	2.5
10°-20°	1692.5	4.5
20°-30°	2467.6	6.6
30°-40°	3800.5	10.1
40°-50°	5593.4	14.9
50°-60°	8204.3	21.9
60°-70°	9171.2	24.4
70°-80°	4490.1	12.0
80°-90°	1185.5	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°	37528.0	100.0
0°-180°	37528.0	100.0



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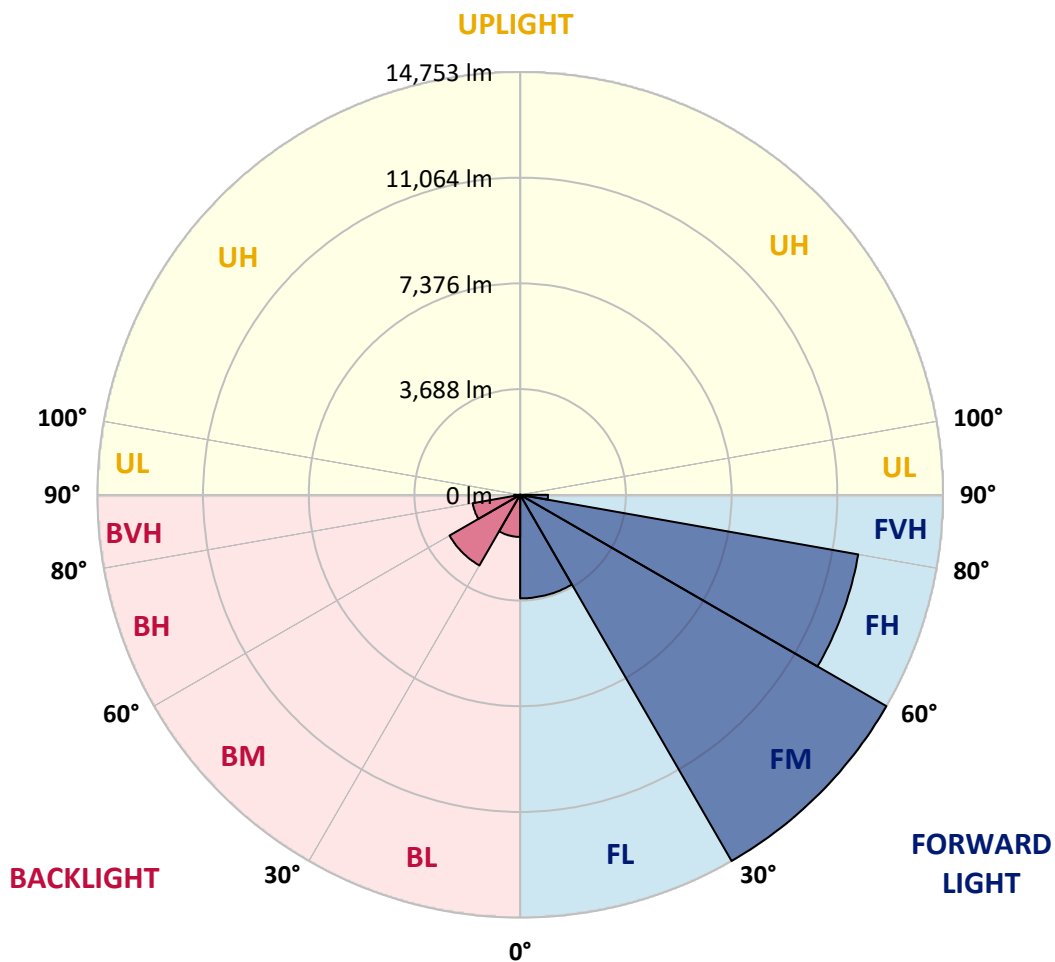
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3613.8	9.6			
FM (30°-60°)	14752.6	39.3			
FH (60°-80°)	11977.6	31.9			G4/12000
FVH (80°-90°)	973.6	2.6			G5
BL (0°-30°)	1469.3	3.9	B3/2500		
BM (30°-60°)	2845.5	7.6	B3/5000		
BH (60°-80°)	1683.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	211.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0
2.5°	13174.1	12905.9	12460.3	11996.1	11713.5	11383.4	11125.6	10898.6	10444.8	10356.1	10436.5
5°	12388.1	11849.7	11010.0	10164.2	9601.0	8996.6	8526.2	8148.7	7573.1	7472.1	7593.8
7.5°	11127.6	10484.0	9374.1	8295.2	7498.9	6743.8	6236.3	5832.0	5382.3	5188.4	5200.7
10°	10040.4	9314.3	8002.2	6828.4	6176.5	5667.0	5239.9	4825.3	4369.4	4070.2	3987.7
12.5°	9431.9	8596.4	7084.2	6036.2	5431.8	4895.4	4435.4	3991.8	3505.0	3199.7	3113.0
15°	9326.7	8419.0	6739.7	5528.7	4771.6	4092.9	3550.4	3055.3	2554.0	2306.4	2254.8
17.5°	9782.6	8736.7	6628.3	5077.0	4150.7	3313.1	2646.8	2093.9	1685.4	1561.7	1551.3
20°	10657.3	9347.3	6613.9	4652.0	3538.0	2556.0	1844.3	1442.0	1262.5	1227.5	1229.5
22.5°	11884.7	10294.2	6791.3	4332.2	2974.8	1906.2	1386.3	1206.8	1136.7	1103.7	1103.7
25°	13473.2	11598.0	7199.7	4099.1	2485.9	1522.5	1223.3	1116.1	1050.0	1027.4	1031.5
27.5°	15012.2	12866.7	7674.2	3915.5	2166.1	1382.2	1159.4	1062.4	1004.7	982.0	992.3
30°	16212.8	13993.1	8070.3	3665.9	2003.1	1343.0	1182.1	1083.1	1000.5	965.5	967.5
32.5°	17207.2	14979.2	8402.5	3486.4	1858.7	1151.1	1019.1	975.8	965.5	924.2	903.6
35°	18478.0	16054.0	8625.3	3490.5	1790.7	1027.4	907.7	831.4	775.7	728.2	728.2
37.5°	19967.4	17287.6	8862.5	3538.0	1765.9	955.2	868.5	792.2	740.6	695.2	687.0
40°	21440.4	18496.5	9079.1	3583.4	1751.5	911.8	837.6	767.4	720.0	674.6	662.2
42.5°	22692.6	19490.9	9273.0	3606.1	1701.9	907.7	814.9	750.9	705.5	656.0	643.6
45°	23618.9	20324.3	9481.4	3641.1	1652.4	924.2	814.9	748.9	693.2	645.7	633.3
47.5°	24446.1	21302.2	9830.0	3641.1	1592.6	893.3	841.7	750.9	691.1	641.6	631.3
50°	25553.9	22643.1	10490.2	3556.6	1508.0	860.3	887.1	742.7	672.5	633.3	621.0
52.5°	27080.5	24361.5	11538.2	3410.1	1378.1	796.3	880.9	738.5	654.0	612.7	598.3
55°	28885.6	26201.7	12681.0	3238.9	1184.1	750.9	849.9	728.2	633.3	587.9	573.5
57.5°	30294.6	27468.4	13485.6	2974.8	1015.0	726.2	753.0	717.9	608.6	561.1	548.7
60°	30855.8	27418.9	13706.3	2622.0	932.5	705.5	658.1	604.6	587.9	540.5	526.1
62.5°	30552.5	26152.2	13087.4	2374.5	913.9	678.7	616.8	744.7	571.4	526.1	505.4
65°	29151.8	23907.7	11447.4	2308.5	967.5	651.9	590.0	583.8	548.7	505.4	484.8
67.5°	26100.6	20553.3	9165.8	2314.6	1035.6	625.1	563.2	534.3	517.8	482.7	464.2
70°	21258.8	16250.0	6832.5	2331.1	1070.7	594.1	534.3	503.4	484.8	449.7	437.3
72.5°	15631.1	12524.3	4963.5	2223.9	1076.9	559.1	495.1	468.3	449.7	412.6	402.3
75°	10694.4	9580.4	3443.1	1842.2	938.6	509.6	451.8	427.0	414.7	369.3	363.1
77.5°	7812.4	7191.5	2203.2	1367.7	724.1	447.7	398.2	379.6	371.3	321.8	313.6
80°	6269.3	5689.7	1378.1	936.6	530.2	375.5	334.2	323.9	315.6	266.1	259.9
82.5°	4348.7	3810.3	885.0	608.6	398.2	290.9	264.1	259.9	247.6	202.2	196.0
85°	2294.0	2069.2	561.1	414.7	288.8	200.1	183.6	183.6	177.4	134.1	130.0
87.5°	292.9	476.5	284.7	216.6	158.8	88.7	88.7	86.6	92.8	76.3	66.0
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0
2.5°	10246.7	10345.8	10250.9	10257.1	10362.3	10675.8	10818.2	10935.8	11061.6	11144.1	11181.3
5°	7426.7	7657.7	7736.1	7901.2	8144.6	8544.8	8703.6	8819.2	8895.5	8940.9	8959.5
7.5°	5079.0	5219.3	5376.1	5642.2	6172.4	6407.6	6512.8	6486.0	6399.3	6368.4	6337.4
10°	3828.9	3773.2	3744.3	3890.8	4319.8	4557.1	4631.4	4559.2	4511.7	4522.0	4573.6
12.5°	2966.5	2869.6	2752.0	2735.5	3018.1	3230.6	3278.1	3282.2	3368.8	3445.2	3558.6
15°	2162.0	2151.7	2093.9	2058.8	2219.7	2393.0	2413.7	2450.8	2529.2	2584.9	2683.9
17.5°	1524.5	1580.2	1625.6	1648.3	1770.0	1893.8	1871.1	1852.5	1838.1	1838.1	1885.5
20°	1229.5	1266.7	1324.4	1390.4	1514.2	1600.9	1545.2	1470.9	1417.3	1400.8	1406.9
22.5°	1107.8	1136.7	1169.7	1227.5	1338.9	1398.7	1338.9	1285.2	1231.6	1213.0	1206.8
25°	1045.9	1083.1	1114.0	1157.3	1239.8	1281.1	1223.3	1184.1	1151.1	1128.4	1111.9
27.5°	1010.9	1043.9	1052.1	1072.7	1142.9	1180.0	1151.1	1134.6	1114.0	1093.4	1072.7
30°	973.7	967.5	953.1	955.2	1010.9	1048.0	1045.9	1050.0	1048.0	1041.8	1037.7
32.5°	889.1	876.8	864.4	876.8	928.3	961.3	963.4	971.7	971.7	969.6	986.1
35°	740.6	763.3	777.7	814.9	876.8	905.6	893.3	872.6	835.5	812.8	810.7
37.5°	684.9	689.0	713.8	765.4	833.4	860.3	841.7	794.2	769.5	765.4	771.5
40°	658.1	662.2	676.7	724.1	792.2	819.0	802.5	767.4	744.7	742.7	753.0
42.5°	639.5	643.6	651.9	684.9	740.6	773.6	775.7	750.9	724.1	726.2	736.5
45°	629.2	631.3	629.2	645.7	697.3	736.5	753.0	736.5	713.8	717.9	730.3
47.5°	627.1	621.0	612.7	616.8	670.5	709.7	730.3	724.1	713.8	717.9	728.2
50°	618.9	604.4	594.1	592.1	645.7	687.0	705.5	705.5	709.7	717.9	728.2
52.5°	594.1	577.6	577.6	571.4	629.2	668.4	680.8	682.8	689.0	703.5	717.9
55°	563.2	557.0	563.2	552.9	616.8	654.0	660.1	664.3	668.4	680.8	701.4
57.5°	536.4	528.1	542.6	538.4	606.5	639.5	639.5	647.8	647.8	664.3	680.8
60°	521.9	505.4	511.6	515.7	592.1	627.1	623.0	631.3	635.4	649.8	662.2
62.5°	503.4	488.9	488.9	499.2	575.6	608.6	606.5	612.7	629.2	633.3	645.7
65°	480.7	474.5	468.3	480.7	559.1	587.9	590.0	598.3	612.7	616.8	627.1
67.5°	458.0	460.0	447.7	460.0	544.6	567.3	567.3	583.8	590.0	598.3	608.6
70°	433.2	435.3	425.0	439.4	534.3	544.6	542.6	565.3	569.4	575.6	585.9
72.5°	402.3	402.3	398.2	418.8	517.8	521.9	517.8	536.4	538.4	544.6	548.7
75°	369.3	369.3	365.1	394.0	507.5	497.2	484.8	499.2	503.4	507.5	507.5
77.5°	325.9	330.1	330.1	365.1	472.4	486.9	445.6	453.9	460.0	462.1	455.9
80°	272.3	282.6	286.8	332.1	396.1	449.7	398.2	404.3	406.4	406.4	398.2
82.5°	208.4	226.9	237.2	286.8	303.3	377.5	346.6	352.8	346.6	334.2	330.1
85°	144.4	169.2	181.5	218.7	229.0	290.9	288.8	288.8	276.4	259.9	257.9
87.5°	78.4	92.8	101.1	130.0	156.8	196.0	212.5	206.3	196.0	185.7	187.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0
2.5°	11375.2	11655.7	12103.4	12445.9	12790.4	13122.5	13481.5	13755.8	13989.0	14079.7	14356.2
5°	9147.2	9497.9	9920.8	10684.1	11224.6	11820.8	12509.8	13421.6	13772.4	14257.1	15051.4
7.5°	6467.4	6785.1	7465.9	8082.7	8848.1	9691.8	10622.2	11880.6	12340.7	13118.4	14411.9
10°	4829.4	5198.7	5745.4	6265.2	6939.8	7802.1	8870.7	10277.7	10836.8	11680.5	13170.0
12.5°	3890.8	4326.0	4905.7	5394.7	5916.6	6525.2	7562.8	9105.9	9854.8	10593.3	12099.3
15°	2989.2	3445.2	3983.6	4604.5	5180.1	5836.1	6923.3	8610.8	9473.1	10242.6	11527.8
17.5°	2069.2	2459.1	3137.8	3785.5	4522.0	5361.6	6745.9	8716.0	9745.4	10632.5	11626.9
20°	1466.8	1689.6	2246.6	2997.5	3915.5	4969.7	6712.9	9268.9	10607.8	11620.7	12262.3
22.5°	1233.7	1316.2	1640.1	2329.1	3389.5	4676.7	6828.4	10044.6	11771.3	13064.8	13275.2
25°	1124.3	1173.8	1343.0	1827.8	2921.2	4464.3	7218.3	11199.8	13211.2	14508.8	14471.7
27.5°	1064.5	1116.1	1227.5	1543.1	2568.4	4332.2	7608.2	12569.6	14857.5	16076.7	15614.6
30°	1045.9	1116.1	1233.7	1454.4	2316.7	4123.9	7928.0	13772.4	16124.1	17135.0	16134.4
32.5°	1031.5	1041.8	1095.4	1254.3	2077.4	3880.4	8144.6	14851.3	17364.0	18141.7	16883.3
35°	833.4	885.0	971.7	1124.3	1937.1	3734.0	8144.6	15781.7	18585.2	19158.8	17597.1
37.5°	802.5	847.9	924.2	1054.2	1858.7	3661.8	7981.6	16679.1	19833.3	20311.9	18185.0
40°	786.0	823.1	895.3	1000.5	1825.7	3579.2	7744.4	17471.2	21052.6	21467.2	18733.8
42.5°	773.6	806.6	874.7	967.5	1782.4	3488.5	7552.5	18106.6	22110.9	22453.3	19257.8
45°	767.4	802.5	876.8	984.0	1695.8	3368.8	7488.6	18793.6	22981.4	23276.4	19825.1
47.5°	767.4	808.7	887.1	1019.1	1592.6	3245.0	7688.7	19699.2	23804.5	23949.0	20493.5
50°	761.2	806.6	916.0	984.0	1442.0	3088.3	8159.0	20840.1	24695.7	24712.3	21339.3
52.5°	748.9	802.5	986.1	963.4	1268.7	2882.0	8794.4	22304.8	26014.0	26113.0	22663.7
55°	734.4	796.3	967.5	916.0	1126.4	2636.5	9314.3	24085.1	27866.5	28140.9	24611.2
57.5°	715.8	788.1	936.6	849.9	1033.5	2320.8	9502.0	25388.9	29160.0	29849.0	26806.2
60°	699.3	781.9	845.8	810.7	975.8	2054.7	9138.9	25131.0	29071.3	30556.6	28751.5
62.5°	682.8	788.1	771.5	786.0	949.0	1883.5	8190.0	23066.0	27600.4	29826.3	30193.5
65°	664.3	732.4	728.2	765.4	942.8	1815.4	6789.2	19969.5	24757.6	27517.9	30533.9
67.5°	639.5	676.7	697.3	738.5	963.4	1755.6	5479.2	16472.8	20807.1	24058.3	28759.8
70°	612.7	643.6	666.3	705.5	951.0	1728.8	4557.1	12990.5	16509.9	19717.8	25258.9
72.5°	577.6	604.4	625.1	662.2	938.6	1714.3	3849.5	10461.3	12326.2	14647.0	20536.8
75°	536.4	561.1	575.6	612.7	899.5	1569.9	3026.4	8852.2	9223.5	10189.0	16357.2
77.5°	488.9	507.5	519.9	561.1	796.3	1305.9	2188.8	6828.4	7162.6	7397.8	12540.8
80°	433.2	451.8	458.0	497.2	660.1	1021.2	1427.6	5043.9	5357.5	5411.2	8190.0
82.5°	369.3	387.8	387.8	425.0	540.5	734.4	936.6	3455.5	3517.4	3698.9	5788.7
85°	297.1	311.5	311.5	330.1	418.8	548.7	643.6	1735.0	1716.4	1959.8	5015.1
87.5°	212.5	222.8	233.1	237.2	299.1	363.1	387.8	528.1	348.6	400.2	3220.3
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-08-LED-E1-SLR-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0	12679.0
2.5°	14564.5	14682.1	14562.5	14475.8	14102.4	13795.0	13384.5	13174.1
5°	15655.8	15955.0	15853.9	15490.8	14711.0	13834.2	12837.8	12388.1
7.5°	15523.8	16219.0	16235.5	15556.8	14407.7	13116.3	11767.1	11127.6
10°	14496.5	15385.6	15639.3	14981.2	13762.0	12318.0	10770.7	10040.4
12.5°	13349.4	14220.0	14413.9	14187.0	13167.9	11717.6	10147.7	9431.9
15°	12410.8	12800.7	13031.7	13229.8	12658.4	11478.3	10112.7	9326.7
17.5°	11839.4	11796.0	11862.0	12206.6	12303.5	11752.7	10649.0	9782.6
20°	11633.1	10970.8	10954.3	11428.8	12136.4	12406.7	11697.0	10657.3
22.5°	11746.5	10673.8	10537.6	11100.8	12225.1	13349.4	13070.9	11884.7
25°	12138.5	10698.5	10589.2	11133.8	12547.0	14354.1	14554.2	13473.2
27.5°	12755.3	10855.3	10710.9	11270.0	12974.0	15197.9	16014.8	15012.2
30°	13341.2	11127.6	10948.2	11538.2	13363.9	15532.1	16910.1	16212.8
32.5°	14052.9	11637.2	11321.5	12031.2	13846.6	16064.3	17708.5	17207.2
35°	14750.2	12363.3	11971.4	12792.4	14385.1	16726.5	18620.3	18478.0
37.5°	15515.6	13312.3	12988.4	13776.5	15121.5	17351.6	19783.8	19967.4
40°	16332.5	14570.7	14187.0	15212.3	16264.4	18135.5	20998.9	21440.4
42.5°	17155.6	15967.3	15509.4	16549.1	17520.8	18909.1	22038.6	22692.6
45°	18098.4	17483.6	17267.0	18391.3	18727.6	19645.6	22806.1	23618.9
47.5°	19195.9	19204.1	19552.8	20002.5	19944.7	20479.0	23577.6	24446.1
50°	20477.0	21351.7	22121.2	22420.3	21199.0	21374.4	24648.3	25553.9
52.5°	22016.0	23920.1	24873.2	24677.2	22550.3	22467.7	26344.1	27080.5
55°	23940.7	26639.1	27586.0	27445.7	24103.7	23957.2	28456.5	28885.6
57.5°	26168.7	29273.5	30144.0	29512.8	25968.6	25591.1	30203.9	30294.6
60°	28126.5	31361.2	32124.5	31425.1	27850.0	27330.2	31295.2	30855.8
62.5°	29215.7	32068.8	32605.2	31852.2	29139.4	29182.7	31534.5	30552.5
65°	28728.8	30280.2	30453.5	30391.6	28807.2	30257.5	30674.2	29151.8
67.5°	26063.5	25758.2	26049.1	26451.3	25960.3	28842.3	28291.5	26100.6
70°	21368.2	19691.0	20270.7	20540.9	20763.7	24819.5	24555.5	21258.8
72.5°	16103.5	13795.0	14253.0	14197.3	15228.8	19907.6	19096.9	15631.1
75°	11410.3	9353.5	9411.2	9388.6	10626.3	15575.4	13828.1	10694.4
77.5°	7983.7	6776.8	6807.8	6935.7	7144.0	11746.5	9879.5	7812.4
80°	5489.5	5143.0	5314.2	5324.5	4951.1	7890.8	7298.8	6269.3
82.5°	4088.8	3575.1	3533.9	3593.7	3880.4	6393.1	5609.2	4348.7
85°	3348.2	2116.6	1701.9	2133.1	3439.0	6331.2	3725.7	2294.0
87.5°	1885.5	1004.7	453.9	841.7	1371.9	4191.9	1076.9	292.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)