

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: P193845

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193845
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-07-LED-E1-SLL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33121 lumens
Efficiency: N/A
Efficacy: 73.9 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): 448
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

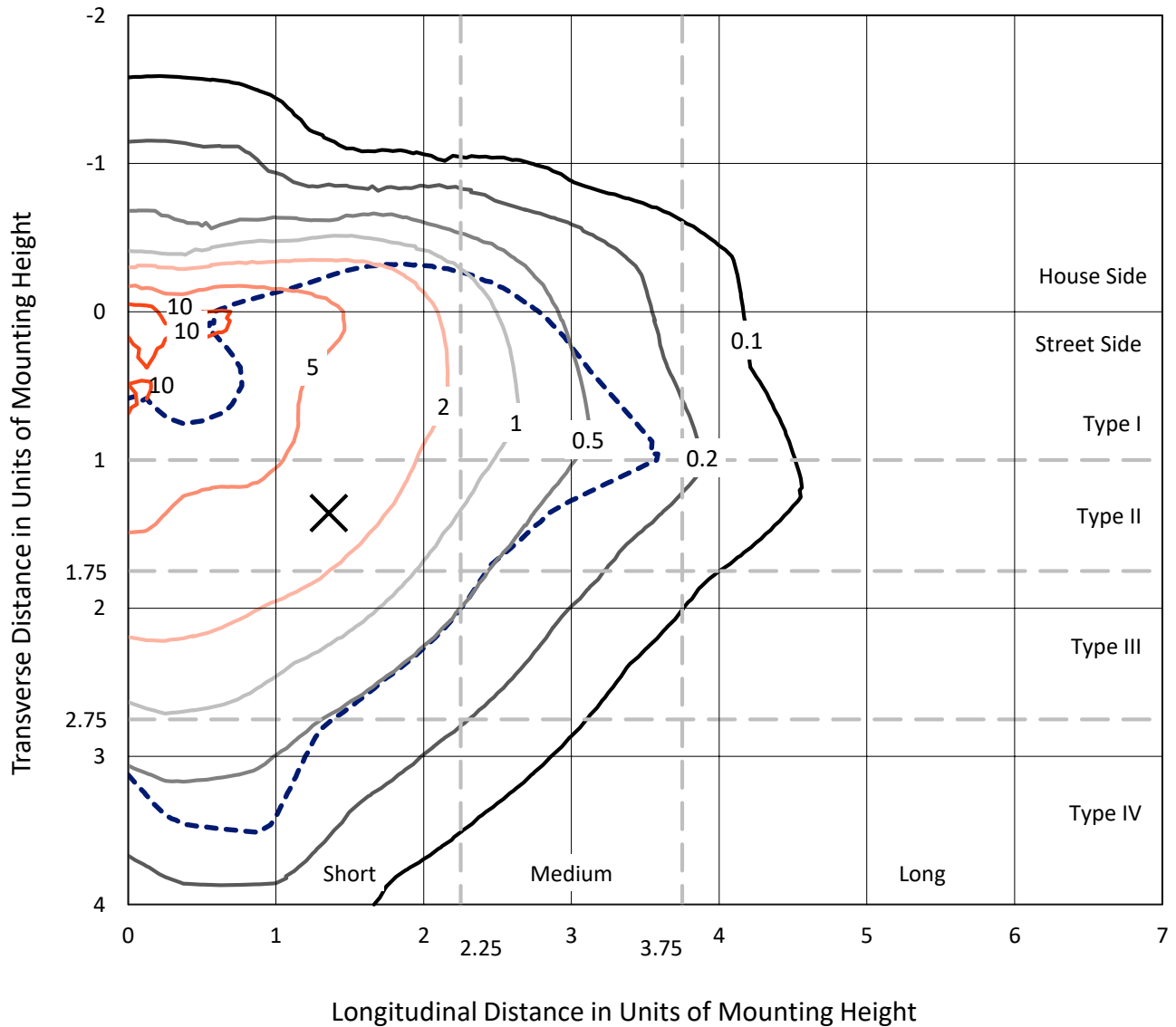


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

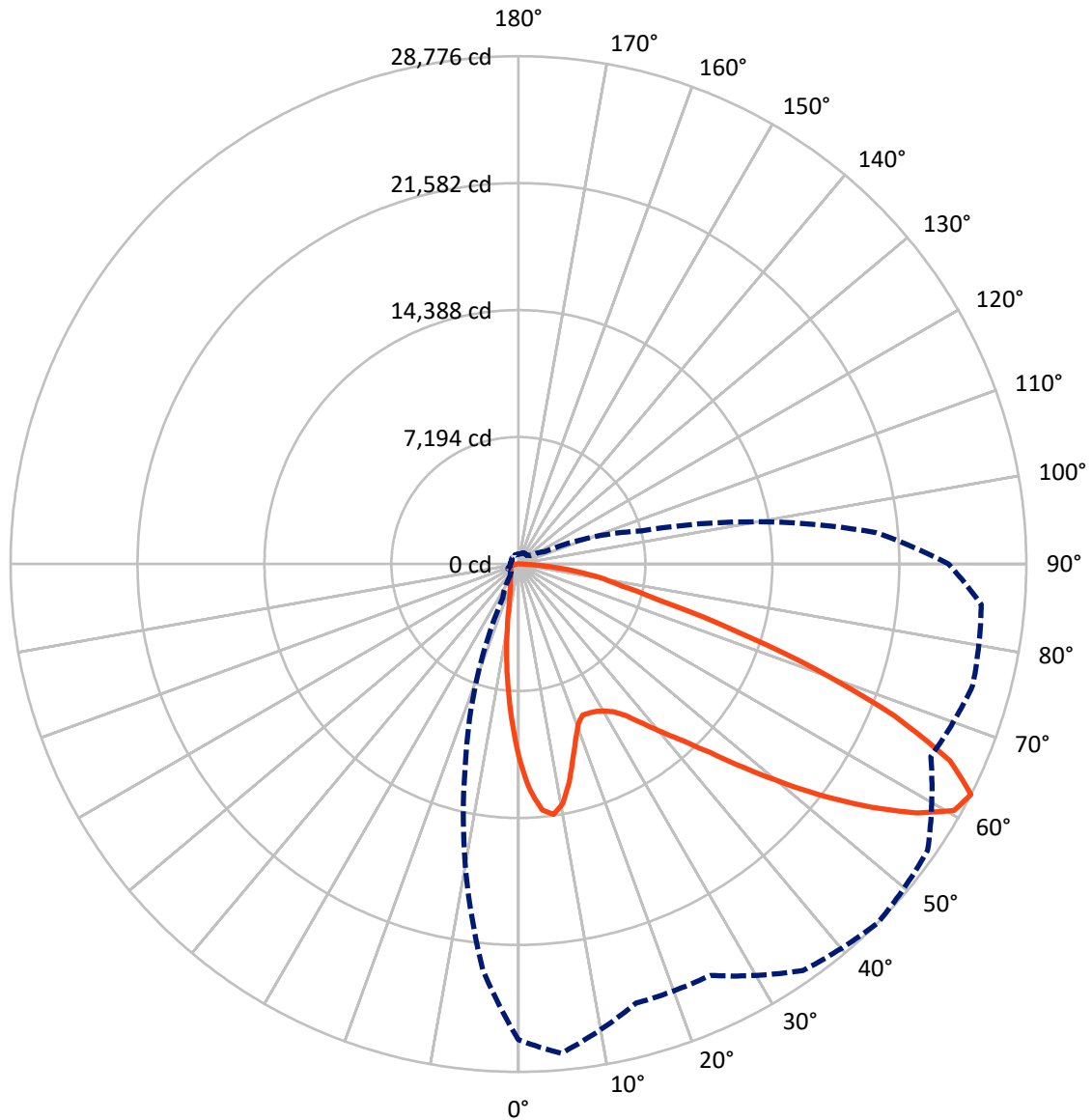


Based on 30 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - Non-Cutoff

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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	5481.1	0.0	5481.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27639.9	0.0	27639.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	33121.0	0.0	33121.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	814.6	2.5
10°-20°	1493.7	4.5
20°-30°	2177.9	6.6
30°-40°	3354.2	10.1
40°-50°	4936.5	14.9
50°-60°	7240.8	21.9
60°-70°	8094.2	24.4
70°-80°	3962.8	12.0
80°-90°	1046.3	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°	33121.0	100.0
0°-180°	33121.0	100.0



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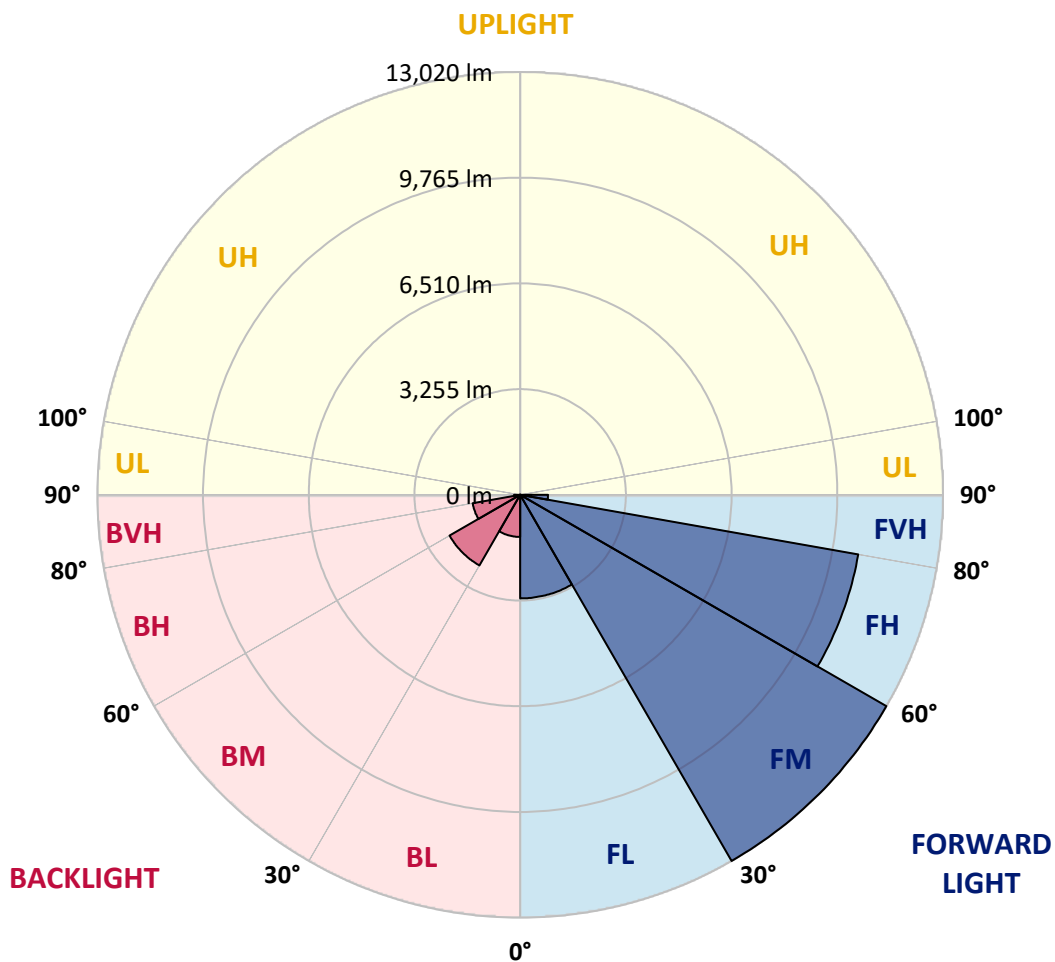
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3189.4	9.6			
FM	(30°-60°)	13020.2	39.3			
FH	(60°-80°)	10571.1	31.9			G4/12000
FVH	(80°-90°)	859.2	2.6			G5
BL	(0°-30°)	1296.7	3.9	B3/2500		
BM	(30°-60°)	2511.4	7.6	B3/5000		
BH	(60°-80°)	1485.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	187.0	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°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	11627.0	11812.7	12175.1	12446.3	12775.9	12852.4	12958.0	12854.2	12670.3	12426.3	12346.2
5°	10933.3	11330.3	12209.7	12983.5	13671.7	13992.1	14081.3	13817.3	13283.9	12582.9	12155.0
7.5°	9820.9	10385.3	11576.0	12715.8	13729.9	14329.0	14314.4	13700.8	12719.5	11577.9	10891.5
10°	8861.4	9505.9	10871.4	12145.9	13222.0	13802.8	13578.8	12794.1	11623.4	10308.8	9564.2
12.5°	8324.3	8956.1	10341.6	11621.6	12521.0	12721.3	12550.1	11781.8	10678.4	9349.3	8697.5
15°	8231.4	8925.1	10130.4	11171.9	11676.2	11501.4	11297.5	10953.4	10174.1	9039.8	8360.7
17.5°	8633.8	9398.5	10372.6	10858.7	10773.1	10469.1	10410.8	10449.0	10261.5	9383.9	8601.0
20°	9405.8	10323.4	10949.7	10711.2	10086.7	9667.9	9682.5	10267.0	10822.3	10256.0	9362.1
22.5°	10489.1	11536.0	11781.8	10789.5	9797.2	9300.2	9420.3	10367.1	11716.2	11530.5	10388.9
25°	11891.0	12845.1	12668.5	11073.5	9826.3	9345.7	9442.2	10713.0	12772.3	12805.0	11659.8
27.5°	13249.3	14134.1	13413.1	11450.4	9946.5	9453.1	9580.6	11257.4	13780.9	14188.8	13112.7
30°	14308.9	14924.3	13708.1	11794.5	10183.2	9662.5	9820.9	11774.5	14239.7	15122.8	14230.6
32.5°	15186.5	15628.9	14177.8	12220.6	10618.4	9992.0	10270.6	12402.6	14900.7	16011.3	15324.9
35°	16308.1	16433.7	14762.3	12695.8	11290.2	10565.6	10911.5	13018.0	15530.6	16908.9	16402.7
37.5°	17622.6	17460.6	15314.0	13345.8	12158.7	11463.2	11749.0	13693.5	16049.5	17926.7	17504.3
40°	18922.6	18533.0	16005.8	14354.4	13425.9	12521.0	12859.6	14414.5	16533.8	18946.3	18580.3
42.5°	20027.8	19450.6	16688.6	15463.3	14605.7	13688.1	14092.3	15141.0	16996.3	19816.6	19514.3
45°	20845.3	20127.9	17338.6	16528.4	16231.6	15239.3	15430.5	15973.1	17497.0	20543.0	20282.7
47.5°	21575.4	20808.8	18074.1	17602.6	17653.6	17256.6	16949.0	16941.7	18086.9	21136.6	21009.1
50°	22553.1	21753.8	18864.3	18709.6	19787.4	19523.4	18844.3	18072.3	18833.4	21810.2	21795.7
52.5°	23900.4	23250.4	19829.3	19902.1	21779.3	21952.3	21111.1	19430.6	20002.3	23046.5	22959.1
55°	25493.5	25114.8	21143.9	21273.1	24222.7	24346.5	23510.8	21129.3	21721.0	24836.2	24594.1
57.5°	26737.1	26657.0	22585.9	22919.0	26047.0	26604.2	25835.8	23095.7	23658.3	26343.8	25735.7
60°	27232.3	27620.1	24120.7	24579.5	27734.8	28352.0	27678.4	24823.5	25375.2	26968.3	25657.4
62.5°	26964.7	27831.3	25755.7	25717.5	28111.7	28776.3	28302.9	25784.8	26647.9	26323.8	24359.2
65°	25728.4	27072.1	26704.3	25424.3	26822.6	26877.3	26724.3	25355.1	26948.3	24286.4	21850.3
67.5°	23035.6	24969.2	25455.3	22911.8	23345.1	22990.1	22733.3	23002.8	25382.5	21233.1	18363.6
70°	18762.4	21671.9	21904.9	18325.4	18128.8	17890.3	17378.6	18858.9	22292.7	17402.3	14571.1
72.5°	13795.5	16854.3	17569.8	13440.5	12530.1	12579.3	12175.1	14212.4	18125.1	12927.0	10878.7
75°	9438.5	12204.2	13746.3	9378.5	8286.0	8306.1	8255.1	10070.3	14436.4	8992.5	8140.4
77.5°	6895.0	8719.4	10367.1	6305.1	6121.2	6008.3	5981.0	7046.1	11068.1	6529.1	6321.5
80°	5533.1	6441.7	6964.2	4369.7	4699.2	4690.1	4539.0	4844.9	7228.2	4775.7	4728.4
82.5°	3838.0	4950.5	5642.4	3424.7	3171.7	3118.9	3155.3	3608.6	5108.9	3264.5	3104.3
85°	2024.6	3288.2	5587.7	3035.1	1882.6	1502.1	1868.0	2955.0	4426.1	1729.7	1514.8
87.5°	258.5	950.4	3699.7	1210.8	742.8	400.6	886.7	1664.1	2842.1	353.2	307.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	12140.5	11898.3	11581.5	11288.4	10984.3	10682.1	10287.0	10039.4	9868.2	9835.5	9762.6
5°	11845.5	11040.8	10432.6	9906.5	9429.4	8755.8	8382.5	8073.0	7907.3	7890.9	7850.9
7.5°	10485.4	9374.8	8553.7	7809.0	7133.5	6589.1	5988.3	5707.9	5593.2	5620.5	5647.8
10°	9070.8	7829.0	6885.9	6124.9	5529.5	5070.7	4588.2	4262.3	4036.5	3991.0	3981.9
12.5°	8036.6	6674.7	5758.9	5221.8	4761.1	4329.6	3818.0	3433.9	3140.7	3040.6	2973.2
15°	7599.6	6110.3	5150.8	4571.8	4063.8	3515.8	3040.6	2638.2	2368.7	2281.3	2232.2
17.5°	7692.5	5953.7	4732.0	3991.0	3341.0	2769.3	2170.3	1826.2	1664.1	1622.2	1622.2
20°	8180.4	5924.6	4386.1	3455.7	2645.5	1982.7	1491.2	1294.5	1241.7	1236.3	1250.8
22.5°	8865.0	6026.5	4127.5	2991.4	2055.6	1447.5	1161.6	1088.8	1065.1	1070.6	1087.0
25°	9884.6	6370.6	3940.0	2578.1	1613.1	1185.3	1036.0	992.3	981.4	995.9	1016.0
27.5°	11093.6	6714.8	3823.5	2266.8	1361.9	1083.3	985.0	939.5	946.8	965.0	983.2
30°	12155.0	6997.0	3639.6	2044.7	1283.6	1088.8	985.0	923.1	915.8	919.5	924.9
32.5°	13107.3	7188.1	3424.7	1833.5	1107.0	966.8	919.5	910.4	870.3	855.7	857.6
35°	13928.4	7188.1	3295.5	1709.6	992.3	857.6	781.1	735.6	715.5	717.4	737.4
37.5°	14720.4	7044.3	3231.8	1640.5	930.4	815.7	748.3	708.3	680.9	675.5	679.1
40°	15419.6	6834.9	3158.9	1611.3	883.0	790.2	726.5	693.7	664.6	655.5	657.3
42.5°	15980.3	6665.6	3078.8	1573.1	853.9	772.0	711.9	682.8	650.0	640.9	639.1
45°	16586.6	6609.2	2973.2	1496.6	868.5	773.8	708.3	677.3	644.5	633.6	630.0
47.5°	17385.9	6785.8	2864.0	1405.6	899.4	782.9	713.7	677.3	642.7	633.6	630.0
50°	18392.8	7200.9	2725.6	1272.7	868.5	808.4	711.9	671.8	642.7	633.6	626.3
52.5°	19685.5	7761.7	2543.5	1119.7	850.3	870.3	708.3	660.9	633.6	620.9	608.1
55°	21256.7	8220.5	2326.9	994.1	808.4	853.9	702.8	648.2	619.0	600.8	589.9
57.5°	22407.4	8386.2	2048.3	912.2	750.1	826.6	695.5	631.8	600.8	586.3	571.7
60°	22179.8	8065.7	1813.4	861.2	715.5	746.5	690.0	617.2	584.4	573.5	560.8
62.5°	20357.3	7228.2	1662.3	837.5	693.7	680.9	695.5	602.7	569.9	559.0	555.3
65°	17624.4	5991.9	1602.2	832.1	675.5	642.7	646.4	586.3	553.5	544.4	540.7
67.5°	14538.3	4835.8	1549.4	850.3	651.8	615.4	597.2	564.4	537.1	528.0	520.7
70°	11465.0	4021.9	1525.8	839.3	622.7	588.1	568.1	540.7	517.1	508.0	502.5
72.5°	9232.8	3397.4	1513.0	828.4	584.4	551.7	533.5	509.8	484.3	480.7	475.2
75°	7812.6	2671.0	1385.6	793.8	540.7	508.0	495.2	473.4	447.9	447.9	444.3
77.5°	6026.5	1931.8	1152.5	702.8	495.2	458.8	447.9	431.5	402.4	407.8	406.0
80°	4451.6	1259.9	901.2	582.6	438.8	404.2	398.7	382.3	351.4	358.7	358.7
82.5°	3049.7	826.6	648.2	477.0	375.1	342.3	342.3	325.9	291.3	295.0	305.9
85°	1531.2	568.1	484.3	369.6	291.3	274.9	274.9	262.2	227.6	229.4	244.0
87.5°	466.1	342.3	320.4	264.0	209.4	205.7	196.6	187.5	165.7	163.9	173.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	9651.6	9547.8	9422.2	9145.4	9052.5	9047.1	9130.8	9043.4	9211.0	9139.9	9218.2
5°	7783.5	7681.6	7541.4	7188.1	6973.3	6827.6	6758.5	6554.5	6702.0	6594.6	6683.8
7.5°	5724.3	5748.0	5655.1	5447.6	4979.6	4744.8	4606.4	4482.6	4590.0	4579.1	4750.2
10°	4023.8	4087.5	4021.9	3812.6	3433.9	3304.6	3330.1	3379.2	3519.4	3592.3	3856.3
12.5°	2896.7	2893.1	2851.2	2663.7	2414.3	2428.8	2532.6	2618.2	2747.4	2823.9	3093.4
15°	2163.0	2130.2	2112.0	1959.1	1817.1	1848.0	1899.0	1908.1	1990.0	2035.5	2254.0
17.5°	1635.0	1651.4	1671.4	1562.2	1454.7	1434.7	1394.7	1345.5	1369.2	1378.3	1487.5
20°	1298.2	1363.7	1412.9	1336.4	1227.2	1168.9	1117.9	1085.1	1085.1	1083.3	1114.3
22.5°	1134.3	1181.6	1234.4	1181.6	1083.3	1032.3	1003.2	977.7	974.1	974.1	1003.2
25°	1045.1	1079.7	1130.7	1094.2	1021.4	983.2	955.9	923.1	910.4	906.7	926.7
27.5°	1001.4	1016.0	1041.4	1008.7	946.8	928.6	921.3	892.1	875.8	866.7	886.7
30°	926.7	923.1	924.9	892.1	843.0	841.2	853.9	859.4	853.9	852.1	883.0
32.5°	857.6	850.3	848.4	819.3	773.8	762.9	773.8	784.7	797.5	815.7	852.1
35°	770.2	788.4	799.3	773.8	719.2	686.4	673.7	653.6	642.7	642.7	684.6
37.5°	701.0	742.8	759.2	735.6	675.5	630.0	608.1	604.5	606.3	613.6	653.6
40°	677.3	708.3	722.8	699.2	639.1	597.2	584.4	580.8	584.4	595.4	635.4
42.5°	662.7	684.6	682.8	653.6	604.5	575.3	568.1	564.4	568.1	579.0	622.7
45°	650.0	664.6	650.0	615.4	569.9	555.3	557.1	555.3	559.0	569.9	611.8
47.5°	639.1	644.5	626.3	591.7	544.4	540.7	548.0	553.5	557.1	566.2	609.9
50°	622.7	622.7	606.3	569.9	522.5	524.4	533.5	546.2	548.0	559.0	593.6
52.5°	602.7	600.8	589.9	555.3	504.3	509.8	509.8	524.4	528.0	540.7	577.2
55°	586.3	582.6	577.2	544.4	487.9	497.1	491.6	497.1	506.2	518.9	559.0
57.5°	571.7	564.4	564.4	535.3	475.2	478.8	466.1	473.4	484.3	495.2	537.1
60°	557.1	549.9	553.5	522.5	455.2	451.5	446.1	460.6	464.3	477.0	518.9
62.5°	540.7	535.3	537.1	508.0	440.6	431.5	431.5	444.3	446.1	464.3	504.3
65°	528.0	520.7	518.9	493.4	424.2	413.3	418.8	424.2	427.9	446.1	484.3
67.5°	515.3	500.7	500.7	480.7	406.0	395.1	406.0	404.2	409.7	426.0	457.0
70°	498.9	478.8	480.7	471.6	387.8	375.1	384.2	382.3	386.0	396.9	427.9
72.5°	473.4	457.0	460.6	457.0	369.6	351.4	355.0	355.0	355.0	364.1	396.9
75°	440.6	427.9	438.8	447.9	347.8	322.3	325.9	325.9	320.4	325.9	366.0
77.5°	400.6	393.3	429.7	416.9	322.3	291.3	291.3	287.7	276.7	284.0	327.7
80°	356.9	351.4	396.9	349.6	293.1	253.1	249.4	240.3	229.4	234.9	278.6
82.5°	311.3	305.9	333.2	267.6	253.1	209.4	200.3	183.9	173.0	178.4	218.5
85°	254.9	254.9	256.7	202.1	193.0	160.2	149.3	127.4	114.7	118.3	156.6
87.5°	182.1	187.5	173.0	138.4	114.7	89.2	81.9	69.2	58.3	67.4	81.9
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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CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1	11190.1
2.5°	9618.8	9819.1	10046.7	10338.0	10587.4	10997.1	11390.3	11627.0
5°	7191.8	7525.0	7940.1	8473.6	8970.6	9717.1	10458.1	10933.3
7.5°	5147.1	5504.0	5951.9	6618.3	7321.1	8273.3	9252.8	9820.9
10°	4258.6	4624.6	5001.5	5451.2	6026.5	7062.5	8220.5	8861.4
12.5°	3523.1	3914.5	4320.5	4793.9	5327.4	6252.3	7586.9	8324.3
15°	2696.5	3133.4	3612.3	4211.3	4879.5	5948.2	7430.3	8231.4
17.5°	1848.0	2336.0	2924.1	3663.3	4480.8	5849.9	7710.7	8633.8
20°	1272.7	1627.7	2255.9	3122.5	4105.7	5837.2	8249.6	9405.8
22.5°	1065.1	1223.5	1682.3	2625.5	3823.5	5993.8	9085.3	10489.1
25°	985.0	1079.7	1343.7	2194.0	3617.7	6354.3	10236.0	11891.0
27.5°	937.7	1023.2	1219.9	1911.7	3455.7	6773.0	11355.7	13249.3
30°	955.9	1043.3	1185.3	1767.9	3235.4	7122.6	12349.8	14308.9
32.5°	861.2	899.4	1016.0	1640.5	3077.0	7415.7	13220.1	15186.5
35°	733.7	801.1	906.7	1580.4	3080.6	7612.4	14168.7	16308.1
37.5°	699.2	766.5	843.0	1558.5	3122.5	7821.8	15257.5	17622.6
40°	677.3	739.2	804.8	1545.8	3162.6	8012.9	16324.4	18922.6
42.5°	662.7	719.2	801.1	1502.1	3182.6	8184.1	17202.0	20027.8
45°	660.9	719.2	815.7	1458.4	3213.5	8368.0	17937.6	20845.3
47.5°	662.7	742.8	788.4	1405.6	3213.5	8675.7	18800.6	21575.4
50°	655.5	782.9	759.2	1330.9	3138.9	9258.3	19984.1	22553.1
52.5°	651.8	777.4	702.8	1216.2	3009.6	10183.2	21500.7	23900.4
55°	642.7	750.1	662.7	1045.1	2858.5	11191.9	23124.8	25493.5
57.5°	633.6	664.6	640.9	895.8	2625.5	11902.0	24242.7	26737.1
60°	710.1	580.8	622.7	823.0	2314.1	12096.8	24199.0	27232.3
62.5°	657.3	544.4	599.0	806.6	2095.6	11550.6	23081.1	26964.7
65°	515.3	520.7	575.3	853.9	2037.4	10103.1	21100.2	25728.4
67.5°	471.6	497.1	551.7	914.0	2042.8	8089.4	18139.7	23035.6
70°	444.3	471.6	524.4	944.9	2057.4	6030.2	14341.7	18762.4
72.5°	413.3	437.0	493.4	950.4	1962.7	4380.6	11053.5	13795.5
75°	376.9	398.7	449.7	828.4	1625.9	3038.8	8455.4	9438.5
77.5°	335.0	351.4	395.1	639.1	1207.1	1944.5	6347.0	6895.0
80°	285.9	295.0	331.4	467.9	826.6	1216.2	5021.5	5533.1
82.5°	229.4	233.1	256.7	351.4	537.1	781.1	3362.8	3838.0
85°	162.0	162.0	176.6	254.9	366.0	495.2	1826.2	2024.6
87.5°	76.5	78.3	78.3	140.2	191.2	251.3	420.6	258.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)