

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: P193844

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193844
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-06-LED-E1-SLL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 28006 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 382
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

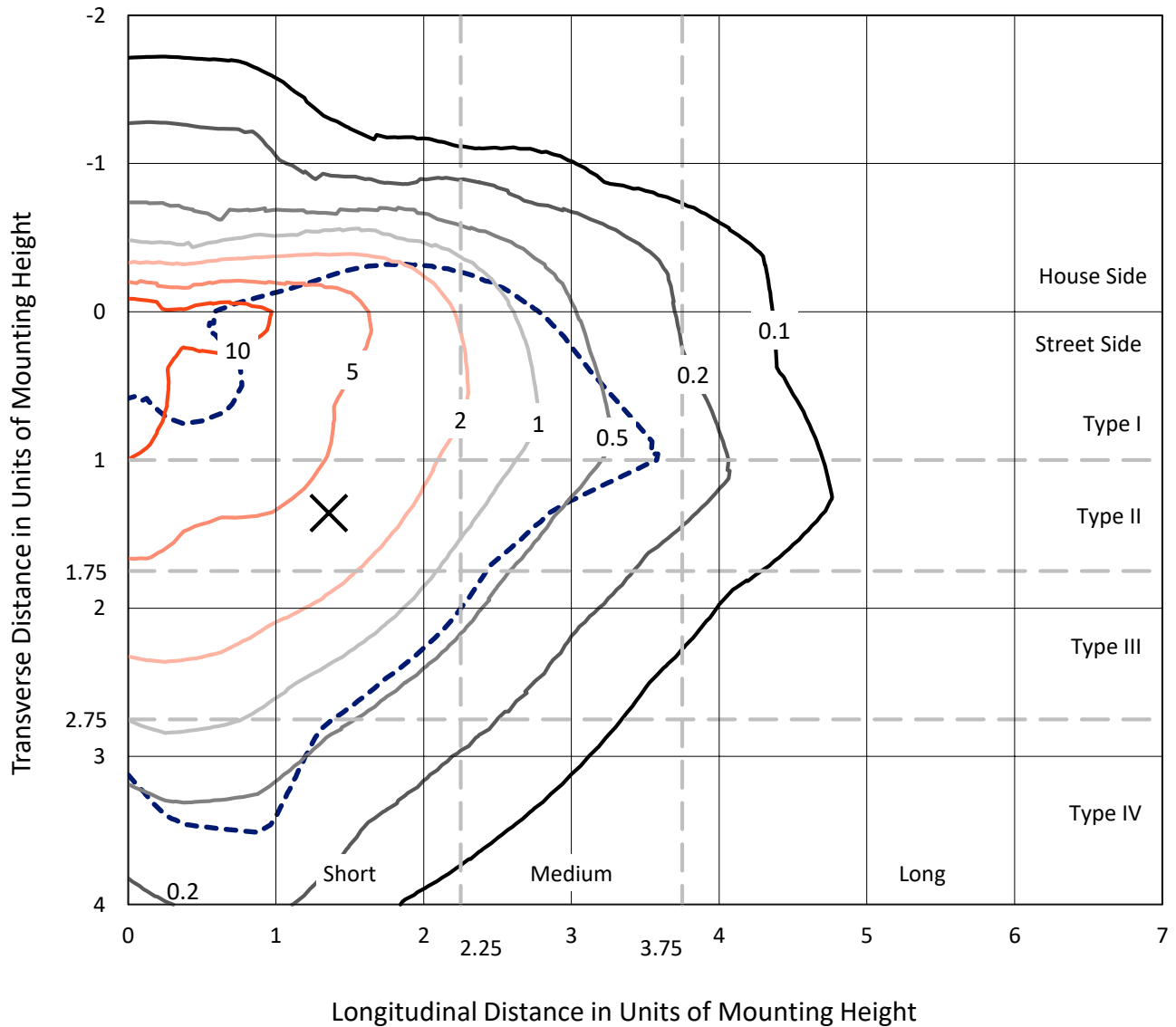


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

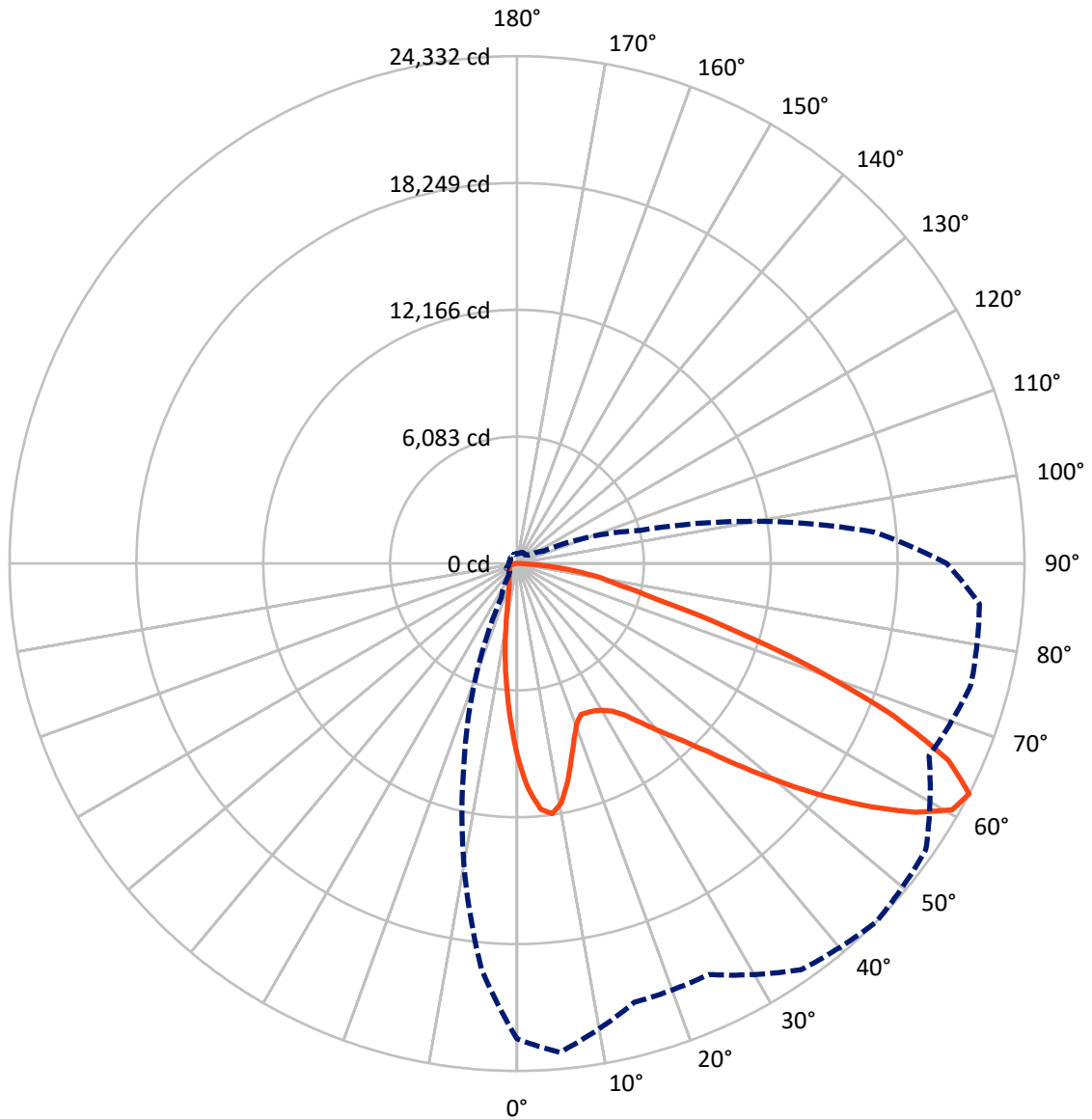


Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type IV - Short - Non-Cutoff

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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	4634.6	0.0	4634.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23371.4	0.0	23371.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	28006.0	0.0	28006.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.8	2.5
10°-20°	1263.0	4.5
20°-30°	1841.5	6.6
30°-40°	2836.2	10.1
40°-50°	4174.2	14.9
50°-60°	6122.6	21.9
60°-70°	6844.2	24.4
70°-80°	3350.8	12.0
80°-90°	884.7	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°	28006.0	100.0
0°-180°	28006.0	100.0



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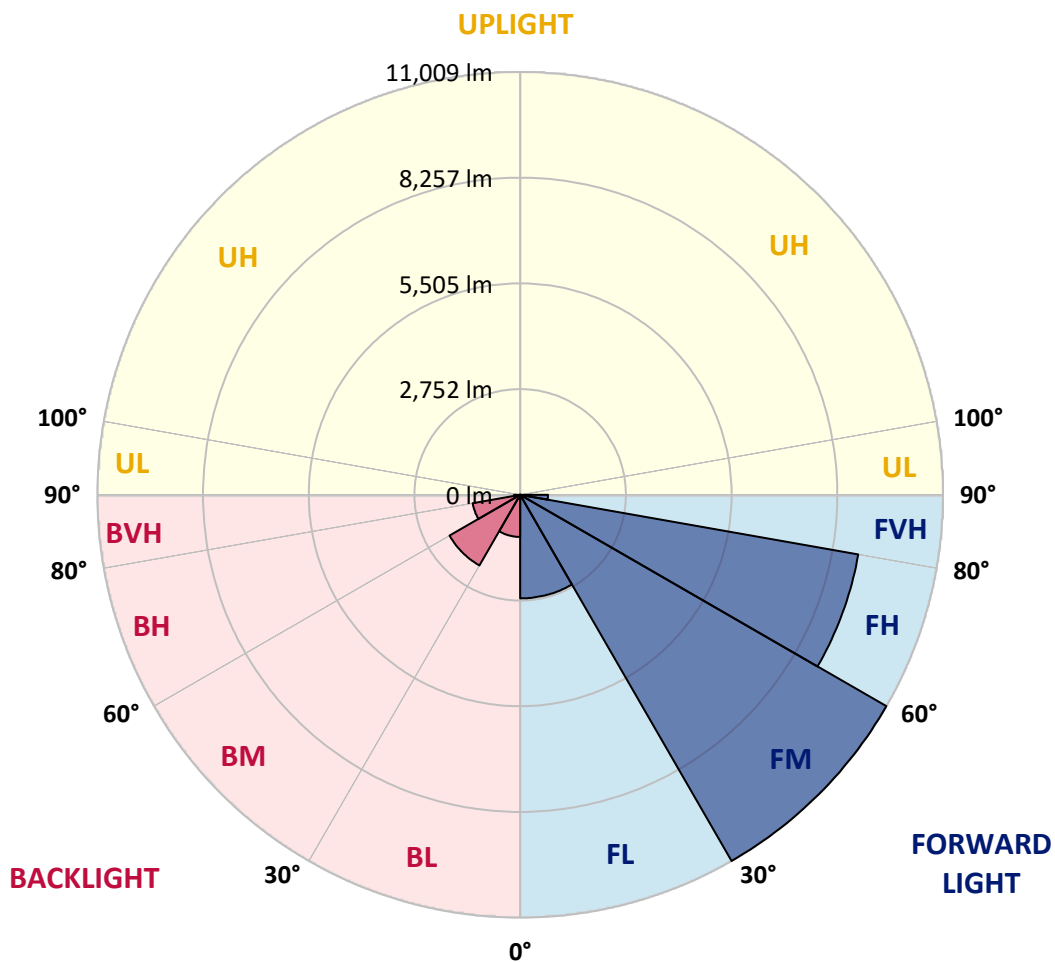
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2696.9	9.6			
FM	(30°-60°)	11009.4	39.3			
FH	(60°-80°)	8938.5	31.9			G4/12000
FVH	(80°-90°)	726.6	2.6			G4/750
BL	(0°-30°)	1096.5	3.9	B3/2500		
BM	(30°-60°)	2123.6	7.6	B2/2500		
BH	(60°-80°)	1256.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	158.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9
2.5°	9831.4	9988.5	10294.8	10524.2	10802.9	10867.5	10956.8	10869.1	10713.6	10507.3	10439.5
5°	9244.9	9580.5	10324.1	10978.4	11560.3	11831.3	11906.7	11683.5	11232.4	10639.7	10277.9
7.5°	8304.2	8781.5	9788.3	10752.1	11609.6	12116.1	12103.8	11584.9	10755.1	9789.9	9209.5
10°	7492.9	8037.9	9192.5	10270.2	11180.0	11671.2	11481.8	10818.3	9828.3	8716.8	8087.1
12.5°	7038.7	7572.9	8744.5	9826.8	10587.3	10756.7	10612.0	9962.3	9029.3	7905.5	7354.3
15°	6960.2	7546.8	8565.9	9446.5	9873.0	9725.2	9552.8	9261.8	8602.9	7643.8	7069.5
17.5°	7300.4	7947.0	8770.7	9181.7	9109.4	8852.3	8803.0	8835.3	8676.8	7934.7	7272.7
20°	7953.2	8729.1	9258.7	9057.0	8529.0	8174.9	8187.2	8681.4	9151.0	8672.2	7916.2
22.5°	8869.2	9754.4	9962.3	9123.2	8284.2	7863.9	7965.5	8766.1	9906.9	9749.8	8784.5
25°	10054.7	10861.4	10712.0	9363.4	8308.8	7902.4	7984.0	9058.6	10799.8	10827.5	9859.1
27.5°	11203.1	11951.4	11341.7	9682.1	8410.4	7993.2	8101.0	9518.9	11652.7	11997.5	11087.7
30°	12099.1	12619.5	11591.1	9973.1	8610.6	8170.3	8304.2	9956.1	12040.6	12787.3	12032.9
32.5°	12841.2	13215.3	11988.3	10333.3	8978.5	8448.9	8684.5	10487.3	12599.5	13538.6	12958.2
35°	13789.5	13895.8	12482.5	10735.1	9546.6	8933.9	9226.4	11007.6	13132.2	14297.6	13869.6
37.5°	14901.1	14764.1	12949.0	11284.7	10281.0	9692.9	9934.6	11578.8	13570.9	15158.2	14801.0
40°	16000.3	15670.8	13534.0	12137.6	11352.5	10587.3	10873.7	12188.4	13980.4	16020.3	15710.9
42.5°	16934.8	16446.8	14111.3	13075.2	12350.1	11574.2	11915.9	12802.7	14371.5	16756.2	16500.7
45°	17626.0	17019.5	14660.9	13975.8	13724.9	12885.8	13047.5	13506.3	14794.9	17370.5	17150.3
47.5°	18243.4	17595.3	15282.9	14884.2	14927.3	14591.6	14331.5	14325.3	15293.7	17872.4	17764.6
50°	19070.1	18394.3	15951.0	15820.2	16731.6	16508.4	15934.1	15281.3	15924.9	18442.0	18429.7
52.5°	20209.4	19659.8	16767.0	16828.6	18415.8	18562.1	17850.8	16429.8	16913.2	19487.3	19413.4
55°	21556.5	21236.2	17878.5	17987.8	20481.9	20586.6	19879.9	17866.2	18366.6	21000.7	20795.9
57.5°	22608.0	22540.2	19097.8	19379.6	22024.5	22495.6	21845.9	19528.9	20004.6	22275.4	21761.2
60°	23026.7	23354.6	20395.7	20783.6	23451.6	23973.5	23403.9	20989.9	21456.4	22803.5	21695.0
62.5°	22800.4	23533.2	21778.2	21745.8	23770.3	24332.2	23932.0	21802.8	22532.5	22258.5	20597.3
65°	21755.1	22891.2	22580.2	21498.0	22680.3	22726.5	22597.2	21439.5	22786.5	20535.8	18475.9
67.5°	19478.1	21113.1	21524.1	19373.4	19739.8	19439.6	19222.5	19450.4	21462.6	17954.0	15527.7
70°	15864.8	18325.0	18522.1	15495.3	15329.1	15127.4	14694.8	15946.4	18850.0	14714.8	12320.8
72.5°	11665.0	14251.4	14856.4	11364.8	10595.0	10636.6	10294.8	12017.6	15326.0	10930.6	9198.7
75°	7980.9	10319.5	11623.4	7930.1	7006.4	7023.3	6980.2	8515.1	12206.9	7603.7	6883.2
77.5°	5830.2	7372.8	8766.1	5331.4	5175.9	5080.4	5057.3	5958.0	9358.8	5520.7	5345.2
80°	4678.6	5446.8	5888.7	3694.9	3973.5	3965.8	3838.0	4096.7	6111.9	4038.2	3998.2
82.5°	3245.3	4186.0	4771.0	2895.9	2681.9	2637.2	2668.0	3051.3	4319.9	2760.4	2624.9
85°	1712.0	2780.4	4724.8	2566.4	1591.9	1270.1	1579.6	2498.7	3742.6	1462.6	1280.9
87.5°	218.6	803.6	3128.3	1023.8	628.1	338.7	749.7	1407.1	2403.2	298.7	260.2
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°	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9
2.5°	10265.6	10060.8	9792.9	9545.1	9288.0	9032.4	8698.3	8489.0	8344.2	8316.5	8254.9
5°	10016.2	9335.7	8821.5	8376.6	7973.2	7403.6	7088.0	6826.3	6686.2	6672.3	6638.4
7.5°	8866.1	7927.0	7232.7	6603.0	6031.9	5571.5	5063.5	4826.4	4729.4	4752.5	4775.6
10°	7669.9	6620.0	5822.5	5179.0	4675.5	4287.6	3879.6	3604.0	3413.1	3374.6	3366.9
12.5°	6795.5	5643.9	4869.5	4415.4	4025.9	3661.0	3228.4	2903.5	2655.7	2571.0	2514.0
15°	6426.0	5166.7	4355.3	3865.8	3436.2	2972.8	2571.0	2230.8	2002.9	1929.0	1887.5
17.5°	6504.5	5034.3	4001.2	3374.6	2825.0	2341.6	1835.1	1544.1	1407.1	1371.7	1371.7
20°	6917.1	5009.6	3708.7	2922.0	2236.9	1676.5	1260.9	1094.6	1050.0	1045.3	1057.7
22.5°	7496.0	5095.8	3490.1	2529.4	1738.1	1223.9	982.2	920.6	900.6	905.2	919.1
25°	8358.1	5386.8	3331.5	2180.0	1364.0	1002.2	876.0	839.0	829.8	842.1	859.1
27.5°	9380.3	5677.8	3233.0	1916.7	1151.6	916.0	832.9	794.4	800.6	815.9	831.3
30°	10277.9	5916.4	3077.5	1728.9	1085.4	920.6	832.9	780.5	774.4	777.5	782.1
32.5°	11083.1	6078.1	2895.9	1550.3	936.0	817.5	777.5	769.8	735.9	723.6	725.1
35°	11777.4	6078.1	2786.5	1445.6	839.0	725.1	660.5	622.0	605.0	606.6	623.5
37.5°	12447.1	5956.4	2732.7	1387.1	786.7	689.7	632.7	598.9	575.8	571.2	574.2
40°	13038.3	5779.4	2671.1	1362.5	746.7	668.2	614.3	586.6	561.9	554.2	555.8
42.5°	13512.4	5636.2	2603.3	1330.2	722.0	652.8	602.0	577.3	549.6	541.9	540.4
45°	14025.1	5588.5	2514.0	1265.5	734.4	654.3	598.9	572.7	545.0	535.8	532.7
47.5°	14700.9	5737.8	2421.7	1188.5	760.5	662.0	603.5	572.7	543.5	535.8	532.7
50°	15552.3	6088.8	2304.7	1076.1	734.4	683.6	602.0	568.1	543.5	535.8	529.6
52.5°	16645.4	6563.0	2150.7	946.8	719.0	735.9	598.9	558.8	535.8	525.0	514.2
55°	17974.0	6951.0	1967.5	840.6	683.6	722.0	594.3	548.1	523.4	508.0	498.8
57.5°	18947.0	7091.1	1732.0	771.3	634.3	698.9	588.1	534.2	508.0	495.7	483.4
60°	18754.5	6820.1	1533.4	728.2	605.0	631.2	583.5	521.9	494.2	485.0	474.2
62.5°	17213.5	6111.9	1405.6	708.2	586.6	575.8	588.1	509.6	481.9	472.6	469.6
65°	14902.6	5066.6	1354.8	703.6	571.2	543.5	546.5	495.7	468.0	460.3	457.2
67.5°	12293.1	4089.0	1310.1	719.0	551.2	520.4	505.0	477.3	454.2	446.5	440.3
70°	9694.4	3400.8	1290.1	709.7	526.5	497.3	480.3	457.2	437.2	429.5	424.9
72.5°	7806.9	2872.8	1279.3	700.5	494.2	466.5	451.1	431.1	409.5	406.4	401.8
75°	6606.1	2258.5	1171.6	671.2	457.2	429.5	418.8	400.3	378.7	378.7	375.6
77.5°	5095.8	1633.4	974.5	594.3	418.8	388.0	378.7	364.9	340.2	344.9	343.3
80°	3764.1	1065.4	762.1	492.6	371.0	341.8	337.2	323.3	297.1	303.3	303.3
82.5°	2578.7	698.9	548.1	403.4	317.1	289.4	289.4	275.6	246.3	249.4	258.6
85°	1294.7	480.3	409.5	312.5	246.3	232.5	232.5	221.7	192.4	194.0	206.3
87.5°	394.1	289.4	271.0	223.2	177.0	174.0	166.3	158.6	140.1	138.6	146.3
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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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9
2.5°	8161.0	8073.3	7967.1	7733.0	7654.5	7649.9	7720.7	7646.8	7788.5	7728.4	7794.6
5°	6581.5	6495.3	6376.7	6078.1	5896.4	5773.2	5714.7	5542.3	5667.0	5576.2	5651.6
7.5°	4840.3	4860.3	4781.8	4606.3	4210.6	4012.0	3895.0	3790.3	3881.1	3871.9	4016.6
10°	3402.4	3456.2	3400.8	3223.8	2903.5	2794.2	2815.8	2857.4	2975.9	3037.5	3260.7
12.5°	2449.4	2446.3	2410.9	2252.3	2041.4	2053.7	2141.5	2213.8	2323.1	2387.8	2615.7
15°	1829.0	1801.2	1785.9	1656.5	1536.4	1562.6	1605.7	1613.4	1682.7	1721.2	1905.9
17.5°	1382.5	1396.4	1413.3	1320.9	1230.1	1213.1	1179.3	1137.7	1157.7	1165.4	1257.8
20°	1097.7	1153.1	1194.7	1130.0	1037.6	988.4	945.3	917.6	917.6	916.0	942.2
22.5°	959.1	999.2	1043.8	999.2	916.0	872.9	848.3	826.7	823.6	823.6	848.3
25°	883.7	912.9	956.0	925.3	863.7	831.3	808.3	780.5	769.8	766.7	783.6
27.5°	846.7	859.1	880.6	852.9	800.6	785.2	779.0	754.4	740.5	732.8	749.7
30°	783.6	780.5	782.1	754.4	712.8	711.3	722.0	726.7	722.0	720.5	746.7
32.5°	725.1	719.0	717.4	692.8	654.3	645.1	654.3	663.5	674.3	689.7	720.5
35°	651.2	666.6	675.9	654.3	608.1	580.4	569.6	552.7	543.5	543.5	578.9
37.5°	592.7	628.1	642.0	622.0	571.2	532.7	514.2	511.1	512.7	518.8	552.7
40°	572.7	598.9	611.2	591.2	540.4	505.0	494.2	491.1	494.2	503.4	537.3
42.5°	560.4	578.9	577.3	552.7	511.1	486.5	480.3	477.3	480.3	489.6	526.5
45°	549.6	561.9	549.6	520.4	481.9	469.6	471.1	469.6	472.6	481.9	517.3
47.5°	540.4	545.0	529.6	500.3	460.3	457.2	463.4	468.0	471.1	478.8	515.7
50°	526.5	526.5	512.7	481.9	441.8	443.4	451.1	461.9	463.4	472.6	501.9
52.5°	509.6	508.0	498.8	469.6	426.4	431.1	431.1	443.4	446.5	457.2	488.0
55°	495.7	492.6	488.0	460.3	412.6	420.3	415.7	420.3	428.0	438.8	472.6
57.5°	483.4	477.3	477.3	452.6	401.8	404.9	394.1	400.3	409.5	418.8	454.2
60°	471.1	464.9	468.0	441.8	384.9	381.8	377.2	389.5	392.6	403.4	438.8
62.5°	457.2	452.6	454.2	429.5	372.6	364.9	364.9	375.6	377.2	392.6	426.4
65°	446.5	440.3	438.8	417.2	358.7	349.5	354.1	358.7	361.8	377.2	409.5
67.5°	435.7	423.4	423.4	406.4	343.3	334.1	343.3	341.8	346.4	360.2	386.4
70°	421.8	404.9	406.4	398.7	327.9	317.1	324.8	323.3	326.4	335.6	361.8
72.5°	400.3	386.4	389.5	386.4	312.5	297.1	300.2	300.2	300.2	307.9	335.6
75°	372.6	361.8	371.0	378.7	294.0	272.5	275.6	275.6	271.0	275.6	309.4
77.5°	338.7	332.5	363.3	352.6	272.5	246.3	246.3	243.2	234.0	240.2	277.1
80°	301.7	297.1	335.6	295.6	247.9	214.0	210.9	203.2	194.0	198.6	235.5
82.5°	263.3	258.6	281.7	226.3	214.0	177.0	169.3	155.5	146.3	150.9	184.7
85°	215.5	215.5	217.1	170.9	163.2	135.5	126.2	107.8	97.0	100.1	132.4
87.5°	154.0	158.6	146.3	117.0	97.0	75.4	69.3	58.5	49.3	57.0	69.3
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-06-LED-E1-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9	9461.9
2.5°	8133.3	8302.7	8495.1	8741.4	8952.4	9298.7	9631.3	9831.4
5°	6081.1	6362.9	6713.9	7165.0	7585.3	8216.5	8843.0	9244.9
7.5°	4352.2	4654.0	5032.7	5596.2	6190.4	6995.6	7823.9	8304.2
10°	3601.0	3910.4	4229.1	4609.3	5095.8	5971.8	6951.0	7492.9
12.5°	2979.0	3310.0	3653.3	4053.6	4504.7	5286.7	6415.2	7038.7
15°	2280.0	2649.5	3054.4	3560.9	4125.9	5029.6	6282.8	6960.2
17.5°	1562.6	1975.2	2472.5	3097.5	3788.8	4946.5	6519.9	7300.4
20°	1076.1	1376.3	1907.5	2640.3	3471.6	4935.7	6975.6	7953.2
22.5°	900.6	1034.6	1422.5	2220.0	3233.0	5068.1	7682.2	8869.2
25°	832.9	912.9	1136.2	1855.1	3059.0	5373.0	8655.2	10054.7
27.5°	792.9	865.2	1031.5	1616.5	2922.0	5727.0	9602.0	11203.1
30°	808.3	882.1	1002.2	1494.9	2735.7	6022.6	10442.6	12099.1
32.5°	728.2	760.5	859.1	1387.1	2601.8	6270.5	11178.5	12841.2
35°	620.4	677.4	766.7	1336.3	2604.9	6436.8	11980.6	13789.5
37.5°	591.2	648.1	712.8	1317.8	2640.3	6613.8	12901.2	14901.1
40°	572.7	625.0	680.5	1307.1	2674.2	6775.5	13803.4	16000.3
42.5°	560.4	608.1	677.4	1270.1	2691.1	6920.2	14545.5	16934.8
45°	558.8	608.1	689.7	1233.2	2717.3	7075.7	15167.4	17626.0
47.5°	560.4	628.1	666.6	1188.5	2717.3	7335.8	15897.2	18243.4
50°	554.2	662.0	642.0	1125.4	2654.1	7828.5	16897.9	19070.1
52.5°	551.2	657.4	594.3	1028.4	2544.8	8610.6	18180.3	20209.4
55°	543.5	634.3	560.4	883.7	2417.1	9463.5	19553.5	21556.5
57.5°	535.8	561.9	541.9	757.4	2220.0	10063.9	20498.8	22608.0
60°	600.4	491.1	526.5	695.9	1956.7	10228.6	20461.9	23026.7
62.5°	555.8	460.3	506.5	682.0	1772.0	9766.8	19516.6	22800.4
65°	435.7	440.3	486.5	722.0	1722.7	8542.8	17841.6	21755.1
67.5°	398.7	420.3	466.5	772.8	1727.3	6840.1	15338.3	19478.1
70°	375.6	398.7	443.4	799.0	1739.7	5098.9	12126.9	15864.8
72.5°	349.5	369.5	417.2	803.6	1659.6	3704.1	9346.5	11665.0
75°	318.7	337.2	380.3	700.5	1374.8	2569.5	7149.6	7980.9
77.5°	283.3	297.1	334.1	540.4	1020.7	1644.2	5366.8	5830.2
80°	241.7	249.4	280.2	395.7	698.9	1028.4	4246.0	4678.6
82.5°	194.0	197.1	217.1	297.1	454.2	660.5	2843.5	3245.3
85°	137.0	137.0	149.3	215.5	309.4	418.8	1544.1	1712.0
87.5°	64.7	66.2	66.2	118.5	161.7	212.5	355.6	218.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)