

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: P193837

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193837
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-09-LED-E1-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 38160 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

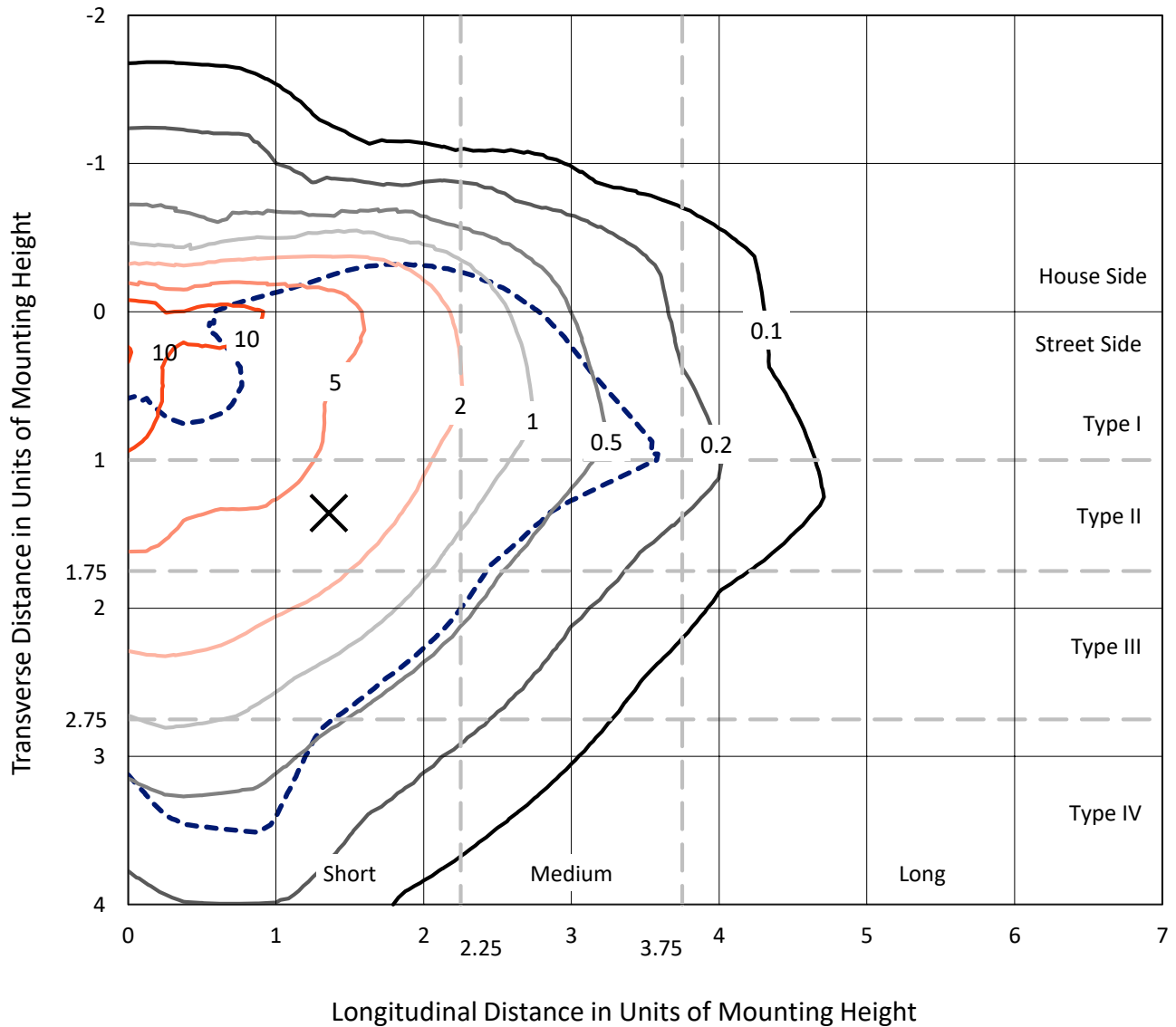
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

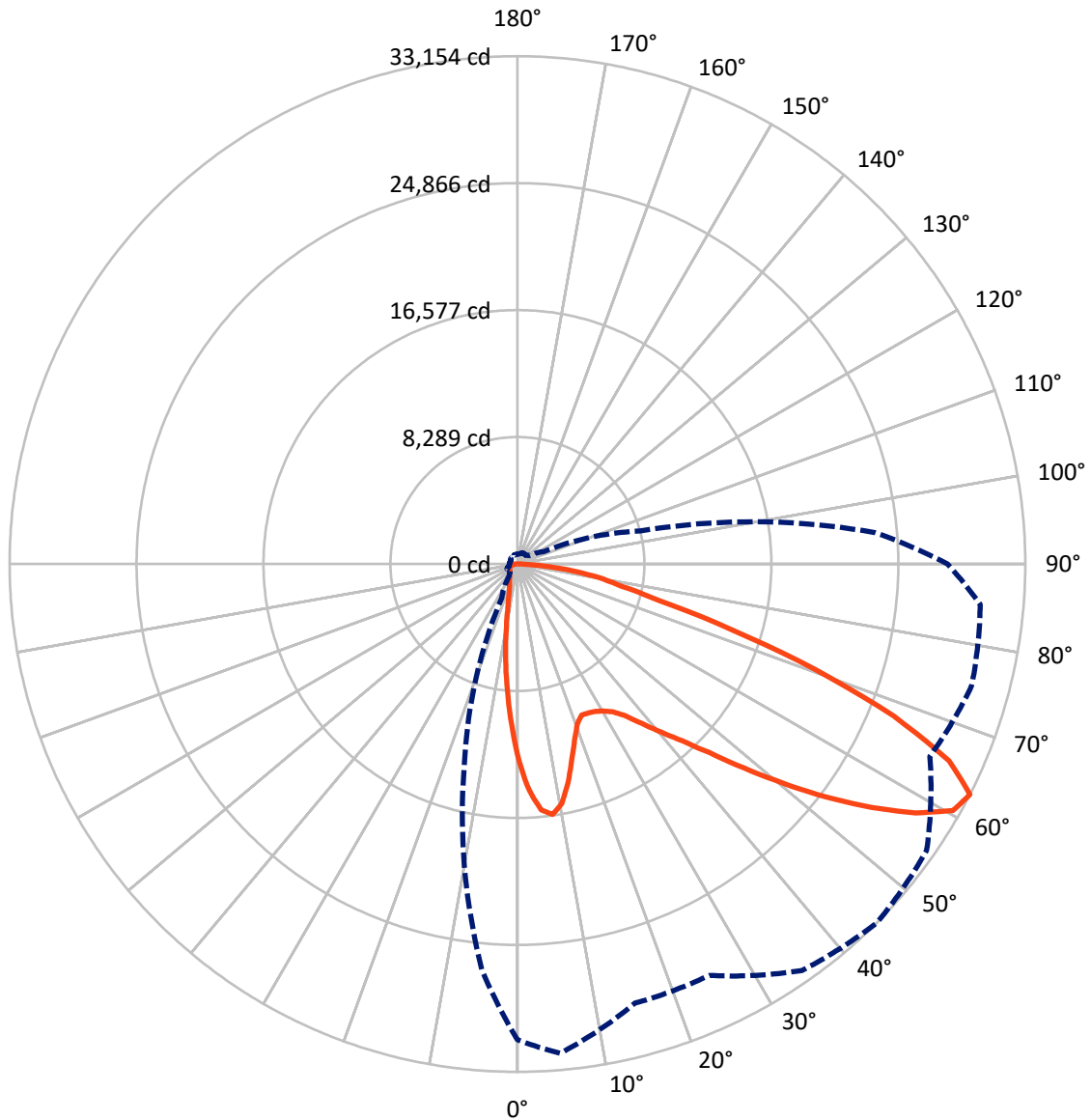
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.9 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	6315.0	0.0	6315.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	31845.0	0.0	31845.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	38160.0	0.0	38160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.5	2.5
10°-20°	1721.0	4.5
20°-30°	2509.2	6.6
30°-40°	3864.5	10.1
40°-50°	5687.6	14.9
50°-60°	8342.4	21.9
60°-70°	9325.6	24.4
70°-80°	4565.7	12.0
80°-90°	1205.5	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°	38160.0	100.0
0°-180°	38160.0	100.0



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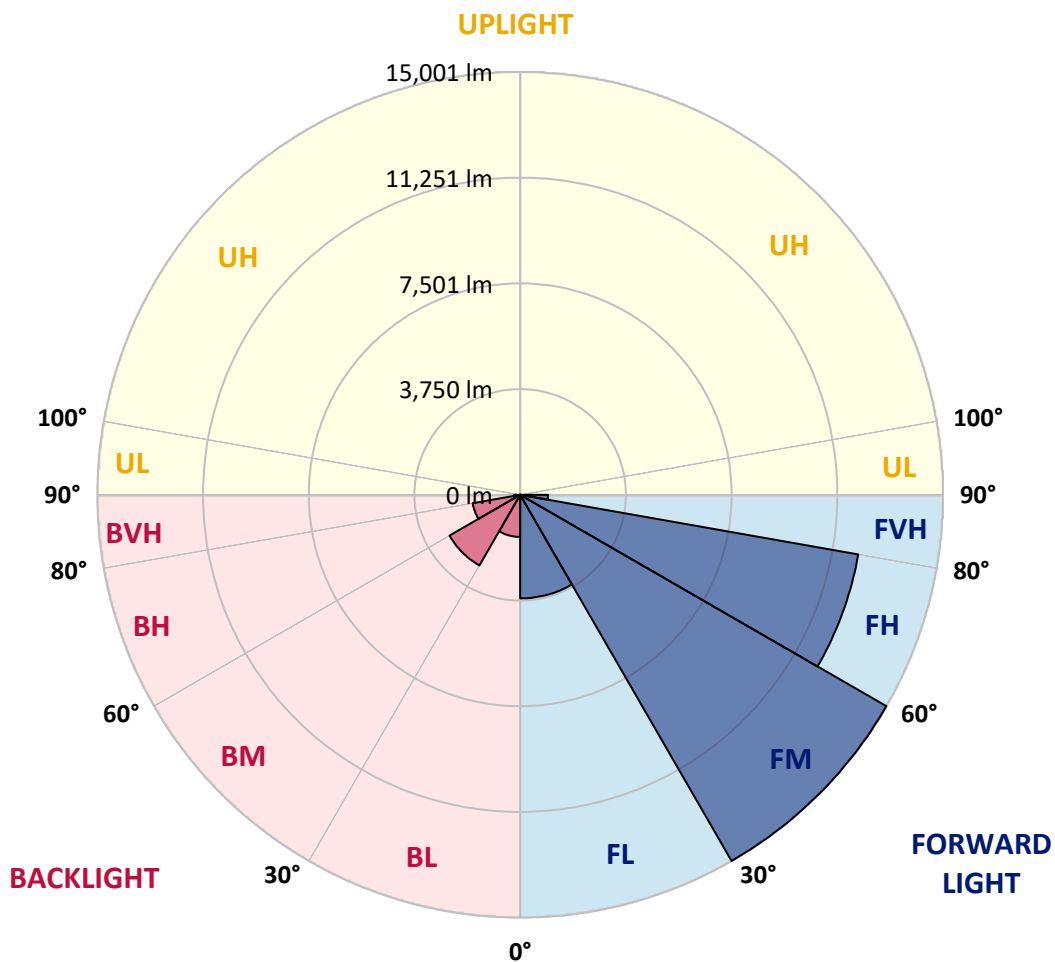
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3674.7	9.6			
FM	(30°-60°)	15001.0	39.3			
FH	(60°-80°)	12179.4	31.9			G5
FVH	(80°-90°)	990.0	2.6			G5
BL	(0°-30°)	1494.0	3.9	B3/2500		
BM	(30°-60°)	2893.5	7.6	B3/5000		
BH	(60°-80°)	1712.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	215.5	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°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	13396.0	13609.9	14027.4	14339.9	14719.6	14807.7	14929.4	14809.8	14597.9	14316.8	14224.5
5°	12596.7	13054.0	14067.2	14958.7	15751.7	16120.9	16223.7	15919.5	15304.9	14497.2	14004.3
7.5°	11315.0	11965.3	13337.2	14650.4	15818.8	16508.9	16492.2	15785.2	14654.6	13339.3	12548.5
10°	10209.5	10952.1	12525.4	13993.8	15233.5	15902.7	15644.7	14740.6	13391.8	11877.2	11019.3
12.5°	9590.7	10318.6	11915.0	13389.7	14425.9	14656.7	14459.5	13574.3	12303.0	10771.7	10020.7
15°	9483.7	10283.0	11671.6	12871.5	13452.6	13251.2	13016.3	12619.8	11722.0	10415.1	9632.7
17.5°	9947.3	10828.4	11950.6	12510.7	12412.1	12061.8	11994.7	12038.7	11822.7	10811.6	9909.6
20°	10836.8	11894.0	12615.6	12340.8	11621.3	11138.8	11155.6	11829.0	12468.8	11816.4	10786.4
22.5°	12084.9	13291.1	13574.3	12431.0	11287.8	10715.1	10853.5	11944.3	13498.7	13284.8	11969.5
25°	13700.1	14799.3	14595.8	12758.3	11321.3	10767.5	10878.7	12342.9	14715.4	14753.2	13433.7
27.5°	15265.0	16284.5	15453.8	13192.5	11459.8	10891.3	11038.1	12970.1	15877.5	16347.4	15107.7
30°	16485.9	17194.9	15793.6	13588.9	11732.5	11132.5	11315.0	13565.9	16406.2	17423.5	16395.7
32.5°	17497.0	18006.7	16334.8	14079.8	12233.8	11512.2	11833.2	14289.6	17167.6	18447.2	17656.4
35°	18789.2	18933.9	17008.2	14627.3	13007.9	12173.0	12571.6	14998.6	17893.4	19481.4	18898.2
37.5°	20303.7	20117.0	17643.8	15376.2	14008.5	13207.2	13536.5	15776.8	18491.3	20654.0	20167.3
40°	21801.5	21352.6	18440.9	16538.3	15468.5	14425.9	14816.1	16607.5	19049.3	21828.7	21407.1
42.5°	23074.8	22409.8	19227.6	17815.8	16827.8	15770.6	16236.2	17444.5	19582.1	22831.4	22483.2
45°	24016.6	23190.1	19976.5	19043.0	18701.1	17557.8	17778.1	18403.2	20159.0	23668.4	23368.4
47.5°	24857.8	23974.7	20823.9	20280.6	20339.4	19882.1	19527.5	19519.2	20838.6	24352.3	24205.4
50°	25984.3	25063.4	21734.3	21556.0	22797.9	22493.7	21711.3	20821.8	21698.7	25128.4	25111.6
52.5°	27536.6	26787.7	22846.1	22930.0	25092.8	25292.0	24322.9	22386.7	23045.4	26552.8	26452.1
55°	29372.1	28935.8	24360.7	24509.6	27907.9	28050.5	27087.7	24343.9	25025.6	28614.8	28335.8
57.5°	30804.8	30712.5	26022.0	26405.9	30009.8	30651.7	29766.5	26609.4	27257.6	30351.7	29651.1
60°	31375.4	31822.2	27790.4	28319.0	31954.4	32665.5	31889.3	28600.1	29235.7	31071.2	29560.9
62.5°	31067.0	32065.5	29674.2	29630.1	32388.6	33154.2	32608.8	29707.7	30702.0	30328.6	28065.2
65°	29642.7	31190.8	30767.1	29292.4	30903.4	30966.3	30790.1	29212.7	31048.2	27981.3	25174.6
67.5°	26540.2	28767.9	29328.0	26397.5	26896.8	26487.7	26192.0	26502.4	29244.1	24463.5	21157.5
70°	21616.9	24969.0	25237.5	21113.4	20886.9	20612.1	20022.6	21728.0	25684.3	20049.9	16787.9
72.5°	15894.3	19418.5	20242.9	15485.3	14436.4	14493.1	14027.4	16374.7	20882.7	14893.7	12533.8
75°	10874.5	14060.9	15837.7	10805.3	9546.7	9569.7	9511.0	11602.4	16632.7	10360.6	9378.8
77.5°	7944.0	10045.9	11944.3	7264.4	7052.5	6922.4	6891.0	8118.1	12752.0	7522.4	7283.2
80°	6374.9	7421.7	8023.7	5034.5	5414.2	5403.7	5229.6	5582.0	8327.9	5502.3	5447.7
82.5°	4422.0	5703.7	6500.8	3945.8	3654.2	3593.4	3635.3	4157.7	5886.2	3761.2	3576.6
85°	2332.6	3788.5	6437.9	3496.9	2169.0	1730.6	2152.2	3404.6	5099.5	1992.8	1745.3
87.5°	297.9	1095.0	4262.5	1395.0	855.9	461.5	1021.6	1917.3	3274.5	407.0	354.5
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°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	13987.5	13708.5	13343.5	13005.8	12655.5	12307.2	11852.0	11566.8	11369.6	11331.8	11247.9
5°	13647.7	12720.5	12019.9	11413.6	10864.0	10087.9	9657.8	9301.2	9110.3	9091.5	9045.3
7.5°	12080.7	10801.1	9855.0	8997.1	8218.8	7591.6	6899.4	6576.3	6444.2	6475.6	6507.1
10°	10450.8	9020.1	7933.5	7056.7	6370.7	5842.1	5286.2	4910.7	4650.6	4598.2	4587.7
12.5°	9259.3	7690.2	6635.0	6016.2	5485.5	4988.3	4398.9	3956.3	3618.5	3503.2	3425.6
15°	8755.8	7039.9	5934.4	5267.3	4682.1	4050.7	3503.2	3039.6	2729.1	2628.4	2571.8
17.5°	8862.8	6859.5	5451.9	4598.2	3849.3	3190.6	2500.5	2104.0	1917.3	1869.1	1869.1
20°	9425.0	6825.9	5053.4	3981.4	3048.0	2284.4	1718.0	1491.5	1430.6	1424.3	1441.1
22.5°	10213.7	6943.4	4755.5	3446.5	2368.3	1667.7	1338.3	1254.4	1227.2	1233.5	1252.3
25°	11388.4	7339.9	4539.4	2970.4	1858.6	1365.6	1193.6	1143.2	1130.7	1147.4	1170.5
27.5°	12781.3	7736.3	4405.2	2611.6	1569.1	1248.1	1134.9	1082.4	1090.8	1111.8	1132.8
30°	14004.3	8061.5	4193.3	2355.7	1478.9	1254.4	1134.9	1063.5	1055.1	1059.3	1065.6
32.5°	15101.4	8281.7	3945.8	2112.4	1275.4	1113.9	1059.3	1048.9	1002.7	985.9	988.0
35°	16047.5	8281.7	3796.8	1969.7	1143.2	988.0	899.9	847.5	824.4	826.5	849.6
37.5°	16960.0	8116.0	3723.4	1890.0	1071.9	939.8	862.2	816.0	784.5	778.2	782.4
40°	17765.5	7874.8	3639.5	1856.5	1017.4	910.4	837.0	799.2	765.7	755.2	757.3
42.5°	18411.6	7679.7	3547.2	1812.4	983.8	889.4	820.2	786.6	748.9	738.4	736.3
45°	19110.1	7614.7	3425.6	1724.3	1000.6	891.5	816.0	780.3	742.6	730.0	725.8
47.5°	20031.0	7818.2	3299.7	1619.4	1036.3	902.0	822.3	780.3	740.5	730.0	725.8
50°	21191.0	8296.4	3140.3	1466.3	1000.6	931.4	820.2	774.1	740.5	730.0	721.6
52.5°	22680.4	8942.5	2930.5	1290.1	979.6	1002.7	816.0	761.5	730.0	715.3	700.6
55°	24490.7	9471.1	2680.9	1145.3	931.4	983.8	809.7	746.8	713.2	692.2	679.7
57.5°	25816.5	9662.0	2359.9	1051.0	864.3	952.4	801.3	727.9	692.2	675.5	658.7
60°	25554.3	9292.8	2089.3	992.2	824.4	860.1	795.0	711.1	673.4	660.8	646.1
62.5°	23454.5	8327.9	1915.2	964.9	799.2	784.5	801.3	694.3	656.6	644.0	639.8
65°	20305.8	6903.6	1846.0	958.7	778.2	740.5	744.7	675.5	637.7	627.2	623.0
67.5°	16750.2	5571.5	1785.1	979.6	751.0	709.0	688.0	650.3	618.8	608.3	599.9
70°	13209.3	4633.8	1757.9	967.0	717.4	677.6	654.5	623.0	595.7	585.3	579.0
72.5°	10637.5	3914.3	1743.2	954.5	673.4	635.6	614.6	587.4	558.0	553.8	547.5
75°	9001.3	3077.3	1596.4	914.6	623.0	585.3	570.6	545.4	516.0	516.0	511.8
77.5°	6943.4	2225.7	1327.8	809.7	570.6	528.6	516.0	497.2	463.6	469.9	467.8
80°	5128.9	1451.6	1038.4	671.3	505.5	465.7	459.4	440.5	404.9	413.2	413.2
82.5°	3513.7	952.4	746.8	549.6	432.1	394.4	394.4	375.5	335.6	339.8	352.4
85°	1764.2	654.5	558.0	425.8	335.6	316.8	316.8	302.1	262.2	264.3	281.1
87.5°	537.0	394.4	369.2	304.2	241.2	237.0	226.6	216.1	190.9	188.8	199.3
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°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	11119.9	11000.4	10855.6	10536.8	10429.8	10423.5	10520.0	10419.3	10612.3	10530.5	10620.7
5°	8967.7	8850.2	8688.7	8281.7	8034.2	7866.4	7786.7	7551.7	7721.7	7597.9	7700.7
7.5°	6595.2	6622.5	6515.5	6276.3	5737.2	5466.6	5307.2	5164.6	5288.3	5275.7	5472.9
10°	4635.9	4709.4	4633.8	4392.6	3956.3	3807.3	3836.7	3893.3	4054.9	4138.8	4442.9
12.5°	3337.5	3333.3	3285.0	3068.9	2781.6	2798.3	2917.9	3016.5	3165.4	3253.5	3564.0
15°	2492.1	2454.3	2433.3	2257.1	2093.5	2129.2	2187.9	2198.4	2292.8	2345.2	2597.0
17.5°	1883.7	1902.6	1925.7	1799.8	1676.1	1653.0	1606.8	1550.2	1577.5	1588.0	1713.8
20°	1495.7	1571.2	1627.8	1539.7	1413.9	1346.7	1288.0	1250.2	1250.2	1248.1	1283.8
22.5°	1306.9	1361.4	1422.2	1361.4	1248.1	1189.4	1155.8	1126.5	1122.3	1122.3	1155.8
25°	1204.1	1243.9	1302.7	1260.7	1176.8	1132.8	1101.3	1063.5	1048.9	1044.7	1067.7
27.5°	1153.7	1170.5	1199.9	1162.1	1090.8	1069.8	1061.4	1027.9	1009.0	998.5	1021.6
30°	1067.7	1063.5	1065.6	1027.9	971.2	969.1	983.8	990.1	983.8	981.7	1017.4
32.5°	988.0	979.6	977.5	944.0	891.5	878.9	891.5	904.1	918.8	939.8	981.7
35°	887.3	908.3	920.9	891.5	828.6	790.8	776.2	753.1	740.5	740.5	788.7
37.5°	807.6	855.9	874.7	847.5	778.2	725.8	700.6	696.4	698.5	706.9	753.1
40°	780.3	816.0	832.8	805.5	736.3	688.0	673.4	669.2	673.4	685.9	732.1
42.5°	763.6	788.7	786.6	753.1	696.4	662.9	654.5	650.3	654.5	667.1	717.4
45°	748.9	765.7	748.9	709.0	656.6	639.8	641.9	639.8	644.0	656.6	704.8
47.5°	736.3	742.6	721.6	681.8	627.2	623.0	631.4	637.7	641.9	652.4	702.7
50°	717.4	717.4	698.5	656.6	602.0	604.1	614.6	629.3	631.4	644.0	683.9
52.5°	694.3	692.2	679.7	639.8	581.1	587.4	587.4	604.1	608.3	623.0	665.0
55°	675.5	671.3	665.0	627.2	562.2	572.7	566.4	572.7	583.2	597.8	644.0
57.5°	658.7	650.3	650.3	616.7	547.5	551.7	537.0	545.4	558.0	570.6	618.8
60°	641.9	633.5	637.7	602.0	524.4	520.2	513.9	530.7	534.9	549.6	597.8
62.5°	623.0	616.7	618.8	585.3	507.6	497.2	497.2	511.8	513.9	534.9	581.1
65°	608.3	599.9	597.8	568.5	488.8	476.2	482.5	488.8	493.0	513.9	558.0
67.5°	593.7	576.9	576.9	553.8	467.8	455.2	467.8	465.7	472.0	490.9	526.5
70°	574.8	551.7	553.8	543.3	446.8	432.1	442.6	440.5	444.7	457.3	493.0
72.5°	545.4	526.5	530.7	526.5	425.8	404.9	409.1	409.1	409.1	419.5	457.3
75°	507.6	493.0	505.5	516.0	400.7	371.3	375.5	375.5	369.2	375.5	421.6
77.5°	461.5	453.1	495.1	480.4	371.3	335.6	335.6	331.4	318.9	327.2	377.6
80°	411.2	404.9	457.3	402.8	337.7	291.6	287.4	276.9	264.3	270.6	320.9
82.5°	358.7	352.4	383.9	308.4	291.6	241.2	230.7	211.9	199.3	205.6	251.7
85°	293.7	293.7	295.8	232.8	222.4	184.6	172.0	146.8	132.2	136.4	180.4
87.5°	209.8	216.1	199.3	159.4	132.2	102.8	94.4	79.7	67.1	77.6	94.4
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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CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5	12892.5
2.5°	11082.2	11312.9	11575.1	11910.8	12198.2	12670.1	13123.3	13396.0
5°	8285.9	8669.8	9148.1	9762.7	10335.4	11195.5	12049.2	12596.7
7.5°	5930.2	6341.4	6857.4	7625.2	8434.9	9532.0	10660.5	11315.0
10°	4906.5	5328.2	5762.4	6280.5	6943.4	8137.0	9471.1	10209.5
12.5°	4059.1	4510.1	4977.9	5523.3	6137.9	7203.5	8741.1	9590.7
15°	3106.7	3610.2	4161.8	4852.0	5621.9	6853.2	8560.7	9483.7
17.5°	2129.2	2691.4	3368.9	4220.6	5162.5	6739.9	8883.8	9947.3
20°	1466.3	1875.3	2599.1	3597.6	4730.3	6725.2	9504.7	10836.8
22.5°	1227.2	1409.7	1938.3	3024.9	4405.2	6905.6	10467.6	12084.9
25°	1134.9	1243.9	1548.1	2527.7	4168.1	7321.0	11793.3	13700.1
27.5°	1080.3	1178.9	1405.5	2202.6	3981.4	7803.5	13083.4	15265.0
30°	1101.3	1202.0	1365.6	2036.9	3727.6	8206.2	14228.7	16485.9
32.5°	992.2	1036.3	1170.5	1890.0	3545.1	8544.0	15231.4	17497.0
35°	845.4	923.0	1044.7	1820.8	3549.3	8770.5	16324.4	18789.2
37.5°	805.5	883.1	971.2	1795.6	3597.6	9011.7	17578.8	20303.7
40°	780.3	851.7	927.2	1781.0	3643.7	9232.0	18808.0	21801.5
42.5°	763.6	828.6	923.0	1730.6	3666.8	9429.2	19819.1	23074.8
45°	761.5	828.6	939.8	1680.3	3702.5	9641.1	20666.6	24016.6
47.5°	763.6	855.9	908.3	1619.4	3702.5	9995.6	21660.9	24857.8
50°	755.2	902.0	874.7	1533.4	3616.4	10666.8	23024.4	25984.3
52.5°	751.0	895.7	809.7	1401.3	3467.5	11732.5	24771.8	27536.6
55°	740.5	864.3	763.6	1204.1	3293.4	12894.6	26643.0	29372.1
57.5°	730.0	765.7	738.4	1032.1	3024.9	13712.7	27931.0	30804.8
60°	818.1	669.2	717.4	948.2	2666.2	13937.2	27880.6	31375.4
62.5°	757.3	627.2	690.1	929.3	2414.5	13307.8	26592.6	31067.0
65°	593.7	599.9	662.9	983.8	2347.3	11640.2	24310.3	29642.7
67.5°	543.3	572.7	635.6	1053.0	2353.6	9320.1	20899.4	26540.2
70°	511.8	543.3	604.1	1088.7	2370.4	6947.6	16523.6	21616.9
72.5°	476.2	503.4	568.5	1095.0	2261.3	5047.1	12735.2	15894.3
75°	434.2	459.4	518.1	954.5	1873.3	3501.1	9741.7	10874.5
77.5°	386.0	404.9	455.2	736.3	1390.8	2240.4	7312.6	7944.0
80°	329.3	339.8	381.8	539.1	952.4	1401.3	5785.5	6374.9
82.5°	264.3	268.5	295.8	404.9	618.8	899.9	3874.5	4422.0
85°	186.7	186.7	203.5	293.7	421.6	570.6	2104.0	2332.6
87.5°	88.1	90.2	90.2	161.5	220.3	289.5	484.6	297.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)