

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: P191295

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191295
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 37850.2 lumens
Efficiency: N/A
Efficacy: 96.8 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

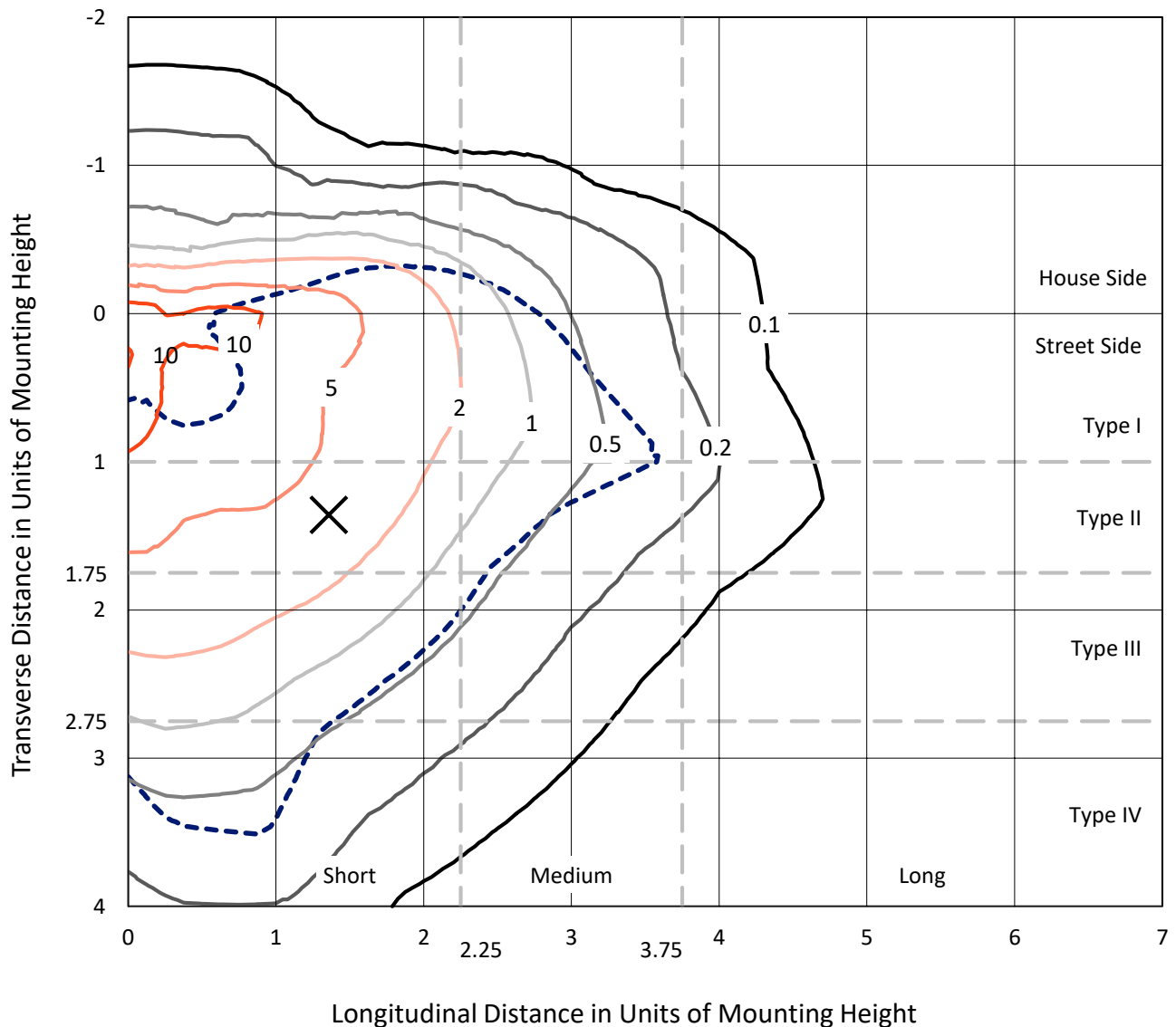
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

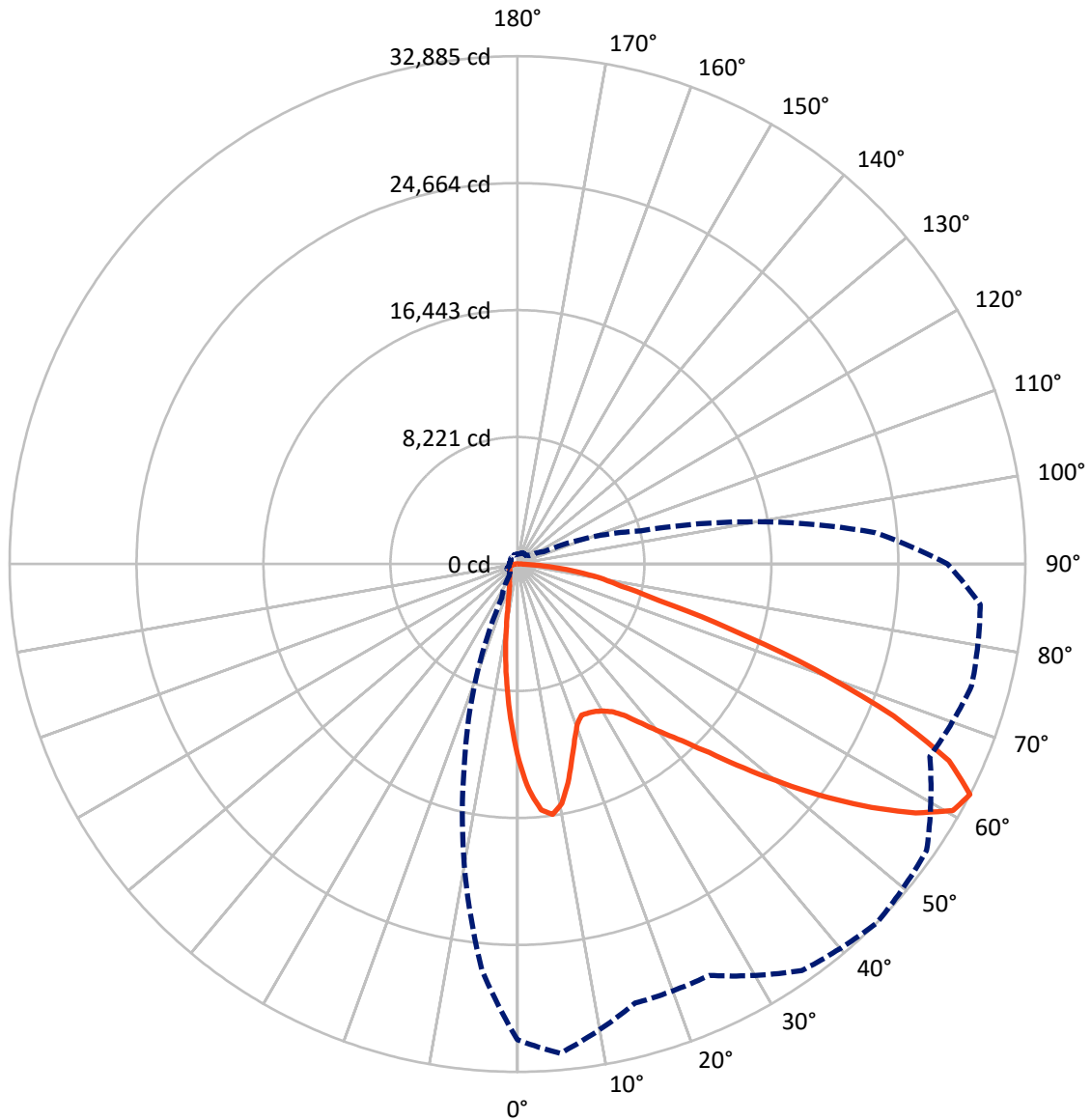
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.7 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	6263.7	0.0	6263.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	31586.5	0.0	31586.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	37850.2	0.0	37850.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.9	2.5
10°-20°	1707.0	4.5
20°-30°	2488.8	6.6
30°-40°	3833.1	10.1
40°-50°	5641.4	14.9
50°-60°	8274.7	21.9
60°-70°	9249.9	24.4
70°-80°	4528.6	12.0
80°-90°	1195.7	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°	37850.2	100.0
0°-180°	37850.2	100.0



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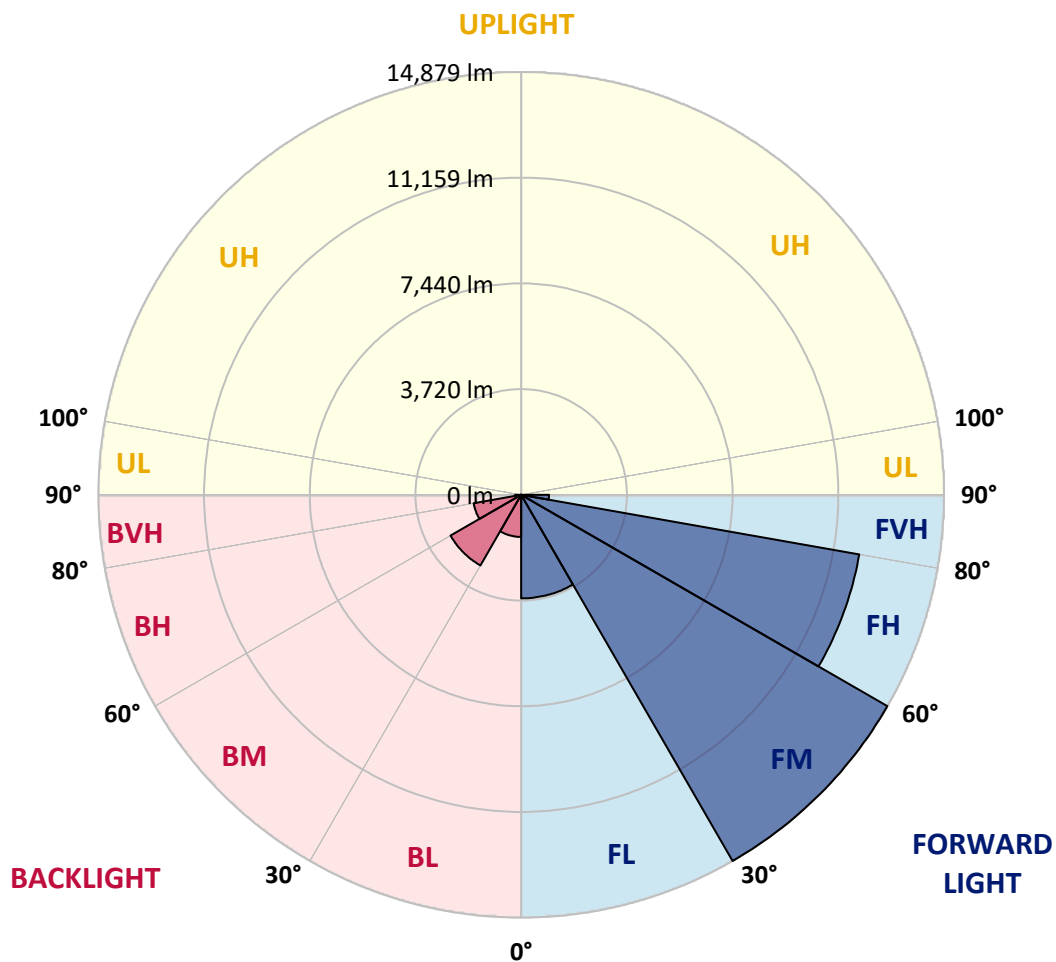
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3644.8	9.6			
FM (30°-60°)	14879.2	39.3			
FH (60°-80°)	12080.5	31.9			G5
FVH (80°-90°)	981.9	2.6			G5
BL (0°-30°)	1481.9	3.9	B3/2500		
BM (30°-60°)	2870.0	7.6	B3/5000		
BH (60°-80°)	1698.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	213.7	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°	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8
2.5°	13287.2	13499.5	13913.5	14223.5	14600.1	14687.5	14808.1	14689.6	14479.5	14200.6	14109.0
5°	12494.4	12948.0	13953.0	14837.3	15623.8	15989.9	16091.9	15790.3	15180.6	14379.5	13890.5
7.5°	11223.2	11868.2	13228.9	14531.4	15690.4	16374.9	16358.3	15657.1	14535.6	13231.1	12446.7
10°	10126.7	10863.2	12423.7	13880.2	15109.9	15773.6	15517.7	14620.9	13283.0	11780.8	10929.8
12.5°	9512.8	10234.8	11818.3	13281.0	14308.8	14537.7	14342.1	13464.1	12203.2	10684.3	9939.4
15°	9406.7	10199.4	11576.8	12767.0	13343.4	13143.6	12910.6	12517.3	11626.9	10330.6	9554.5
17.5°	9866.6	10740.5	11853.6	12409.1	12311.3	11963.9	11897.3	11941.0	11726.7	10723.8	9829.1
20°	10748.8	11797.4	12513.1	12240.6	11526.9	11048.4	11065.1	11732.9	12367.6	11720.5	10698.8
22.5°	11986.7	13183.2	13464.1	12330.1	11196.1	10628.0	10765.4	11847.4	13389.2	13176.9	11872.4
25°	13588.9	14679.1	14477.3	12654.7	11229.4	10680.1	10790.4	12242.7	14596.0	14633.4	13324.7
27.5°	15141.1	16152.3	15328.3	13085.4	11366.7	10802.9	10948.5	12864.8	15748.6	16214.7	14985.0
30°	16352.1	17055.4	15665.4	13478.6	11637.2	11042.1	11223.2	13455.7	16273.0	17282.1	16262.6
32.5°	17354.9	17860.5	16202.2	13965.5	12134.5	11418.8	11737.1	14173.6	17028.2	18297.4	17513.0
35°	18636.6	18780.1	16870.1	14508.5	12902.3	12074.2	12469.5	14876.9	17748.2	19323.2	18744.9
37.5°	20138.8	19953.7	17500.5	15251.4	13894.7	13099.9	13426.6	15648.8	18341.2	20486.3	20003.6
40°	21624.5	21179.2	18291.2	16404.0	15342.9	14308.8	14695.8	16472.7	18894.6	21651.5	21233.3
42.5°	22887.4	22227.9	19071.5	17671.2	16691.2	15642.6	16104.4	17302.9	19423.1	22646.1	22300.7
45°	23821.7	23001.9	19814.3	18888.4	18549.3	17415.2	17633.7	18253.7	19995.3	23476.3	23178.7
47.5°	24656.0	23780.0	20654.9	20116.0	20174.2	19720.7	19369.1	19360.7	20669.4	24154.5	24009.0
50°	25773.3	24860.0	21557.9	21381.0	22612.8	22311.1	21535.0	20652.8	21522.5	24924.4	24907.7
52.5°	27313.0	26570.2	22660.6	22743.9	24889.0	25086.7	24125.5	22205.0	22858.3	26337.2	26237.4
55°	29133.6	28700.8	24162.9	24310.6	27681.4	27822.8	26867.8	24146.2	24822.5	28382.5	28105.8
57.5°	30554.7	30463.2	25810.8	26191.5	29766.1	30402.8	29524.8	26393.4	27036.3	30105.3	29410.3
60°	31120.7	31563.9	27564.8	28089.1	31694.9	32400.3	31630.5	28368.0	28998.4	30819.0	29320.9
62.5°	30814.9	31805.2	29433.3	29389.6	32125.7	32885.1	32344.1	29466.5	30452.7	30082.4	27837.4
65°	29402.1	30937.6	30517.3	29054.6	30652.5	30714.9	30540.2	28975.5	30796.1	27754.2	24970.2
67.5°	26324.7	28534.4	29090.0	26183.2	26678.5	26272.8	25979.4	26287.3	29006.7	24264.8	20985.7
70°	21441.4	24766.3	25032.6	20942.1	20717.3	20444.7	19860.1	21551.6	25475.8	19887.1	16651.7
72.5°	15765.3	19260.8	20078.5	15359.5	14319.3	14375.4	13913.5	16241.8	20713.1	14772.8	12432.0
75°	10786.2	13946.8	15709.1	10717.6	9469.1	9492.1	9433.8	11508.2	16497.6	10276.5	9302.7
77.5°	7879.5	9964.4	11847.4	7205.4	6995.2	6866.3	6835.1	8052.3	12648.5	7461.3	7224.1
80°	6323.2	7361.5	7958.6	4993.6	5370.2	5359.9	5187.1	5536.7	8260.3	5457.6	5403.5
82.5°	4386.1	5657.3	6448.0	3913.7	3624.5	3564.2	3605.8	4123.9	5838.4	3730.7	3547.6
85°	2313.7	3757.7	6385.6	3468.5	2151.5	1716.5	2134.8	3377.0	5058.1	1976.6	1731.1
87.5°	295.4	1086.1	4228.0	1383.6	848.9	457.8	1013.3	1901.8	3248.0	403.7	351.6
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°	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8
2.5°	13874.0	13597.3	13235.1	12900.2	12552.7	12207.3	11755.9	11472.8	11277.3	11239.8	11156.6
5°	13536.9	12617.2	11922.3	11321.0	10775.9	10006.0	9579.4	9225.7	9036.3	9017.6	8971.9
7.5°	11982.6	10713.4	9775.0	8924.0	8152.1	7529.9	6843.3	6522.9	6391.8	6423.0	6454.3
10°	10366.0	8946.9	7869.2	6999.4	6319.0	5794.7	5243.3	4870.9	4612.9	4560.8	4550.4
12.5°	9184.2	7627.7	6581.2	5967.4	5441.0	4947.8	4363.2	3924.1	3589.1	3474.8	3397.7
15°	8684.8	6982.8	5886.3	5224.6	4644.1	4017.7	3474.8	3014.9	2706.9	2607.1	2550.9
17.5°	8790.8	6803.9	5407.7	4560.8	3818.1	3164.7	2480.1	2086.9	1901.8	1853.9	1853.9
20°	9348.4	6770.5	5012.4	3949.1	3023.2	2265.8	1704.0	1479.4	1419.0	1412.8	1429.5
22.5°	10130.8	6887.0	4716.9	3418.6	2349.1	1654.1	1327.5	1244.2	1217.2	1223.4	1242.2
25°	11296.0	7280.2	4502.6	2946.2	1843.5	1354.5	1183.9	1133.9	1121.5	1138.1	1161.0
27.5°	12677.5	7673.6	4369.4	2590.4	1556.3	1238.0	1125.7	1073.6	1082.0	1102.7	1123.6
30°	13890.5	7996.0	4159.3	2336.6	1466.9	1244.2	1125.7	1054.9	1046.6	1050.8	1057.0
32.5°	14978.8	8214.5	3913.7	2095.2	1265.1	1104.9	1050.8	1040.3	994.5	977.9	980.0
35°	15917.2	8214.5	3766.0	1953.7	1133.9	980.0	892.6	840.6	817.7	819.8	842.7
37.5°	16822.2	8050.1	3693.2	1874.7	1063.3	932.1	855.2	809.4	778.2	771.9	776.1
40°	17621.2	7810.8	3610.0	1841.4	1009.1	903.1	830.2	792.8	759.4	749.0	751.2
42.5°	18262.1	7617.4	3518.4	1797.7	975.8	882.2	813.6	780.2	742.8	732.4	730.3
45°	18955.0	7552.9	3397.7	1710.3	992.5	884.2	809.4	774.0	736.5	724.0	720.0
47.5°	19868.4	7754.7	3272.9	1606.2	1027.9	894.7	815.6	774.0	734.5	724.0	720.0
50°	21019.0	8229.0	3114.8	1454.4	992.5	923.8	813.6	767.7	734.5	724.0	715.8
52.5°	22496.2	8869.9	2906.7	1279.6	971.7	994.5	809.4	755.2	724.0	709.5	695.0
55°	24291.9	9394.3	2659.1	1136.1	923.8	975.8	803.1	740.7	707.5	686.6	674.1
57.5°	25606.9	9583.6	2340.7	1042.4	857.2	944.6	794.8	722.0	686.6	669.9	653.4
60°	25346.8	9217.4	2072.4	984.2	817.7	853.0	788.6	705.3	667.9	655.4	640.9
62.5°	23264.0	8260.3	1899.6	957.1	792.8	778.2	794.8	688.8	651.2	638.7	634.6
65°	20141.0	6847.5	1831.0	950.8	771.9	734.5	738.7	669.9	632.5	622.2	618.0
67.5°	16614.2	5526.3	1770.6	971.7	744.9	703.3	682.5	645.0	613.8	603.4	595.1
70°	13102.1	4596.2	1743.6	959.2	711.6	672.1	649.2	618.0	591.0	580.5	574.3
72.5°	10551.1	3882.5	1729.0	946.7	667.9	630.4	609.7	582.6	553.4	549.3	543.1
75°	8928.2	3052.4	1583.4	907.2	618.0	580.5	565.9	540.9	511.9	511.9	507.7
77.5°	6887.0	2207.6	1317.0	803.1	565.9	524.4	511.9	493.2	459.8	466.1	464.0
80°	5087.2	1439.8	1029.9	665.8	501.5	461.9	455.6	436.9	401.6	409.9	409.9
82.5°	3485.1	944.6	740.7	545.1	428.6	391.2	391.2	372.5	332.9	337.1	349.5
85°	1749.9	649.2	553.4	422.4	332.9	314.1	314.1	299.6	260.0	262.2	278.9
87.5°	532.7	391.2	366.2	301.7	239.3	235.1	224.7	214.3	189.3	187.3	197.6
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°	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8
2.5°	11029.7	10911.1	10767.5	10451.3	10345.1	10338.9	10434.6	10334.8	10526.2	10445.0	10534.4
5°	8894.9	8778.4	8618.2	8214.5	7969.0	7802.6	7723.5	7490.5	7658.9	7536.2	7638.2
7.5°	6541.7	6568.7	6462.6	6225.4	5690.7	5422.3	5264.1	5122.6	5245.4	5232.9	5428.5
10°	4598.3	4671.1	4596.2	4357.0	3924.1	3776.4	3805.6	3861.7	4021.9	4105.2	4406.9
12.5°	3310.4	3306.2	3258.3	3044.0	2759.0	2775.6	2894.2	2992.0	3139.7	3227.1	3535.1
15°	2471.9	2434.4	2413.6	2238.8	2076.5	2111.9	2170.2	2180.5	2274.2	2326.2	2575.9
17.5°	1868.4	1887.1	1910.1	1785.3	1662.5	1639.6	1593.8	1537.6	1564.7	1575.0	1699.9
20°	1483.5	1558.5	1614.6	1527.3	1402.4	1335.8	1277.6	1240.1	1240.1	1238.0	1273.4
22.5°	1296.3	1350.4	1410.6	1350.4	1238.0	1179.8	1146.4	1117.4	1113.2	1113.2	1146.4
25°	1194.3	1233.9	1292.1	1250.5	1167.3	1123.6	1092.3	1054.9	1040.3	1036.1	1059.1
27.5°	1144.4	1161.0	1190.1	1152.7	1082.0	1061.1	1052.8	1019.6	1000.9	990.4	1013.3
30°	1059.1	1054.9	1057.0	1019.6	963.3	961.3	975.8	982.0	975.8	973.7	1009.1
32.5°	980.0	971.7	969.6	936.3	884.2	871.8	884.2	896.8	911.3	932.1	973.7
35°	880.1	900.9	913.4	884.2	821.8	784.4	769.9	747.0	734.5	734.5	782.4
37.5°	801.1	848.9	867.7	840.6	771.9	720.0	695.0	690.8	692.8	701.2	747.0
40°	774.0	809.4	826.0	799.0	730.3	682.5	667.9	663.7	667.9	680.4	726.2
42.5°	757.4	782.4	780.2	747.0	690.8	657.5	649.2	645.0	649.2	661.6	711.6
45°	742.8	759.4	742.8	703.3	651.2	634.6	636.7	634.6	638.7	651.2	699.1
47.5°	730.3	736.5	715.8	676.2	622.2	618.0	626.3	632.5	636.7	647.1	697.0
50°	711.6	711.6	692.8	651.2	597.2	599.2	609.7	624.2	626.3	638.7	678.3
52.5°	688.8	686.6	674.1	634.6	576.3	582.6	582.6	599.2	603.4	618.0	659.6
55°	669.9	665.8	659.6	622.2	557.6	568.0	561.8	568.0	578.5	593.0	638.7
57.5°	653.4	645.0	645.0	611.7	543.1	547.2	532.7	540.9	553.4	565.9	613.8
60°	636.7	628.4	632.5	597.2	520.2	516.0	509.7	526.4	530.6	545.1	593.0
62.5°	618.0	611.7	613.8	580.5	503.5	493.2	493.2	507.7	509.7	530.6	576.3
65°	603.4	595.1	593.0	563.9	484.8	472.3	478.5	484.8	489.0	509.7	553.4
67.5°	588.8	572.1	572.1	549.3	464.0	451.5	464.0	461.9	468.1	486.9	522.2
70°	570.1	547.2	549.3	538.9	443.1	428.6	439.1	436.9	441.1	453.6	489.0
72.5°	540.9	522.2	526.4	522.2	422.4	401.6	405.7	405.7	405.7	416.1	453.6
75°	503.5	489.0	501.5	511.9	397.4	368.3	372.5	372.5	366.2	372.5	418.2
77.5°	457.8	449.4	491.0	476.5	368.3	332.9	332.9	328.8	316.3	324.6	374.5
80°	407.9	401.6	453.6	399.5	335.0	289.2	285.1	274.7	262.2	268.4	318.3
82.5°	355.8	349.5	380.7	305.9	289.2	239.3	228.8	210.1	197.6	203.9	249.7
85°	291.3	291.3	293.4	231.0	220.5	183.1	170.6	145.7	131.0	135.2	178.9
87.5°	208.1	214.3	197.6	158.1	131.0	102.0	93.6	79.1	66.6	77.0	93.6
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: P191295

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8
2.5°	10992.2	11221.1	11481.2	11814.1	12099.2	12567.3	13016.7	13287.2
5°	8218.7	8599.4	9073.9	9683.5	10251.5	11104.5	11951.4	12494.4
7.5°	5882.1	6289.9	6801.7	7563.3	8366.4	9454.6	10574.0	11223.2
10°	4866.7	5284.9	5715.6	6229.6	6887.0	8071.0	9394.3	10126.7
12.5°	4026.1	4473.5	4937.5	5478.4	6088.1	7145.0	8670.2	9512.8
15°	3081.4	3580.8	4128.0	4812.6	5576.2	6797.6	8491.2	9406.7
17.5°	2111.9	2669.5	3341.6	4186.3	5120.6	6685.2	8811.7	9866.6
20°	1454.4	1860.1	2577.9	3568.4	4692.0	6670.7	9427.5	10748.8
22.5°	1217.2	1398.2	1922.5	3000.3	4369.4	6849.6	10382.5	11986.7
25°	1125.7	1233.9	1535.6	2507.3	4134.3	7261.5	11697.5	13588.9
27.5°	1071.5	1169.3	1394.1	2184.7	3949.1	7740.2	12977.2	15141.1
30°	1092.3	1192.2	1354.5	2020.3	3697.4	8139.6	14113.2	16352.1
32.5°	984.2	1027.9	1161.0	1874.7	3516.4	8474.6	15107.8	17354.9
35°	838.5	915.5	1036.1	1806.0	3520.5	8699.3	16191.8	18636.6
37.5°	799.0	876.0	963.3	1781.1	3568.4	8938.5	17436.1	20138.8
40°	774.0	844.8	919.6	1766.5	3614.1	9157.0	18655.3	21624.5
42.5°	757.4	821.8	915.5	1716.5	3637.0	9352.6	19658.3	22887.4
45°	755.2	821.8	932.1	1666.6	3672.4	9562.7	20498.8	23821.7
47.5°	757.4	848.9	900.9	1606.2	3672.4	9914.4	21485.0	24656.0
50°	749.0	894.7	867.7	1521.0	3587.1	10580.3	22837.5	25773.3
52.5°	744.9	888.4	803.1	1389.9	3439.4	11637.2	24570.7	27313.0
55°	734.5	857.2	757.4	1194.3	3266.7	12790.0	26426.7	29133.6
57.5°	724.0	759.4	732.4	1023.7	3000.3	13601.4	27704.2	30554.7
60°	811.5	663.7	711.6	940.5	2644.5	13824.1	27654.2	31120.7
62.5°	751.2	622.2	684.6	921.8	2394.8	13199.9	26376.7	30814.9
65°	588.8	595.1	657.5	975.8	2328.2	11545.6	24113.0	29402.1
67.5°	538.9	568.0	630.4	1044.5	2334.5	9244.4	20729.8	26324.7
70°	507.7	538.9	599.2	1079.8	2351.2	6891.2	16389.5	21441.4
72.5°	472.3	499.4	563.9	1086.1	2242.9	5006.1	12631.8	15765.3
75°	430.7	455.6	513.9	946.7	1858.1	3472.6	9662.7	10786.2
77.5°	382.9	401.6	451.5	730.3	1379.4	2222.2	7253.2	7879.5
80°	326.6	337.1	378.7	534.7	944.6	1389.9	5738.5	6323.2
82.5°	262.2	266.4	293.4	401.6	613.8	892.6	3843.0	4386.1
85°	185.2	185.2	201.8	291.3	418.2	565.9	2086.9	2313.7
87.5°	87.4	89.5	89.5	160.2	218.5	287.1	480.7	295.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)