

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: P191335

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191335
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-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA 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: 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

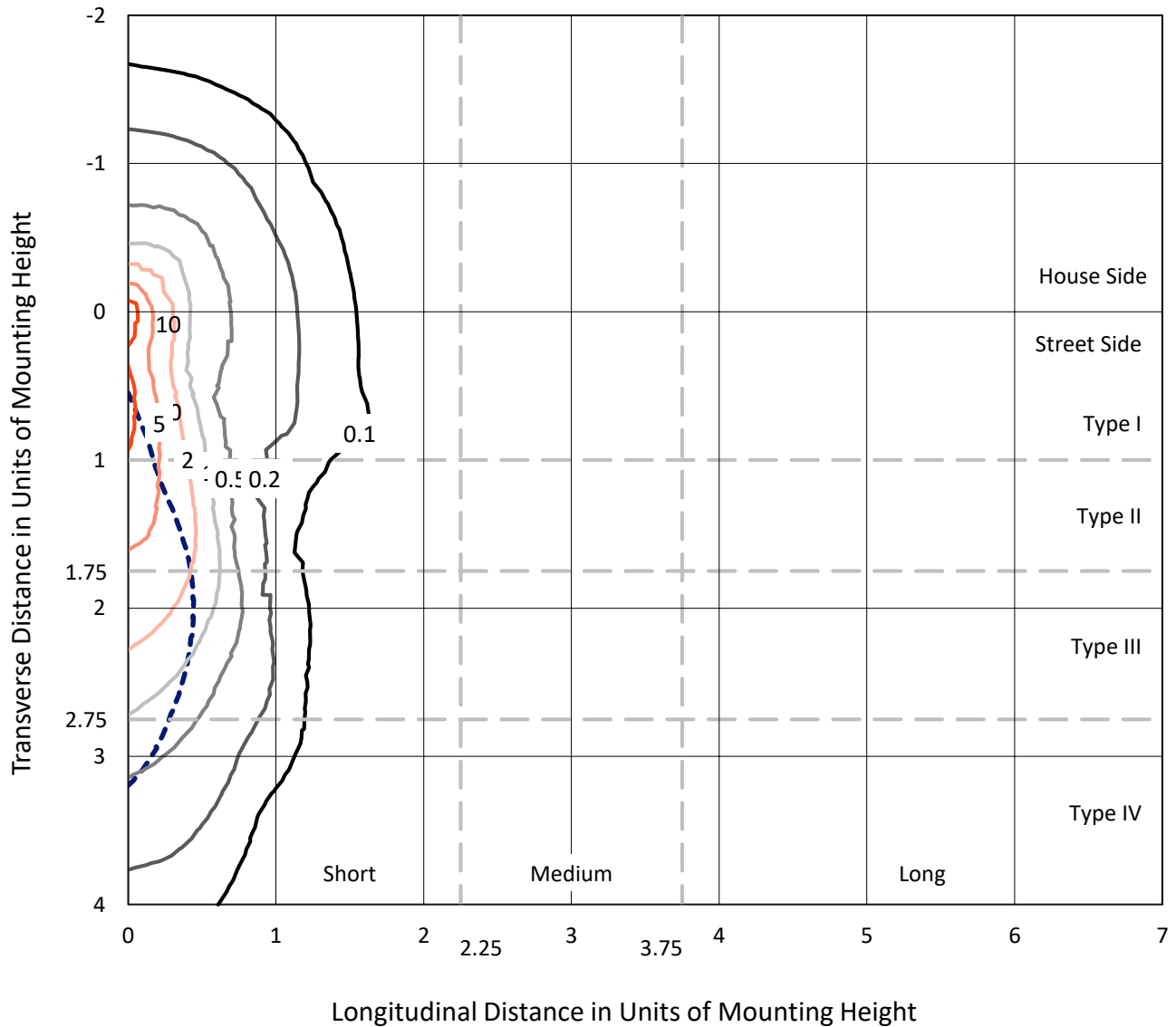


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

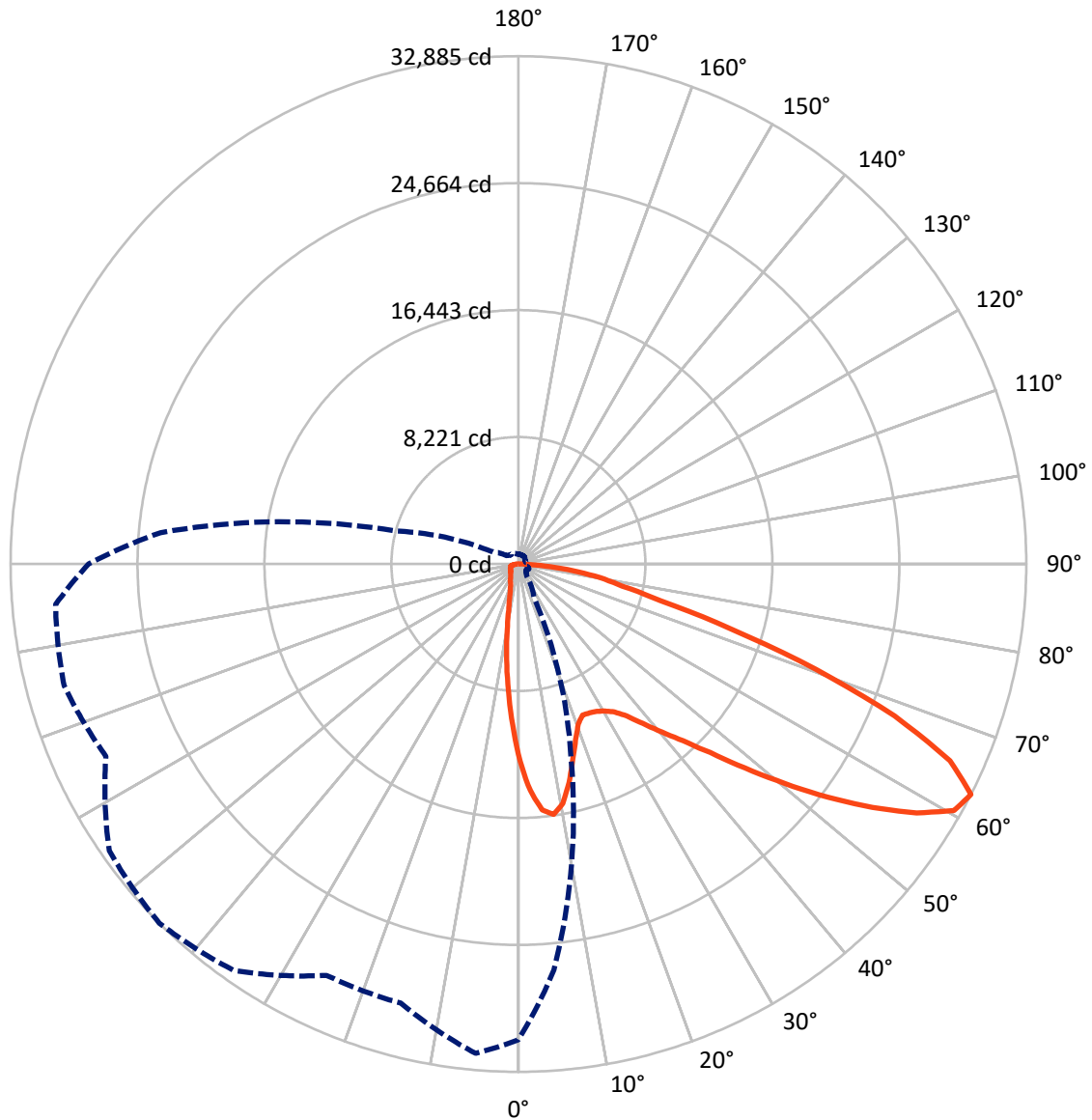


Based on 30 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Short - Non-Cutoff

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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	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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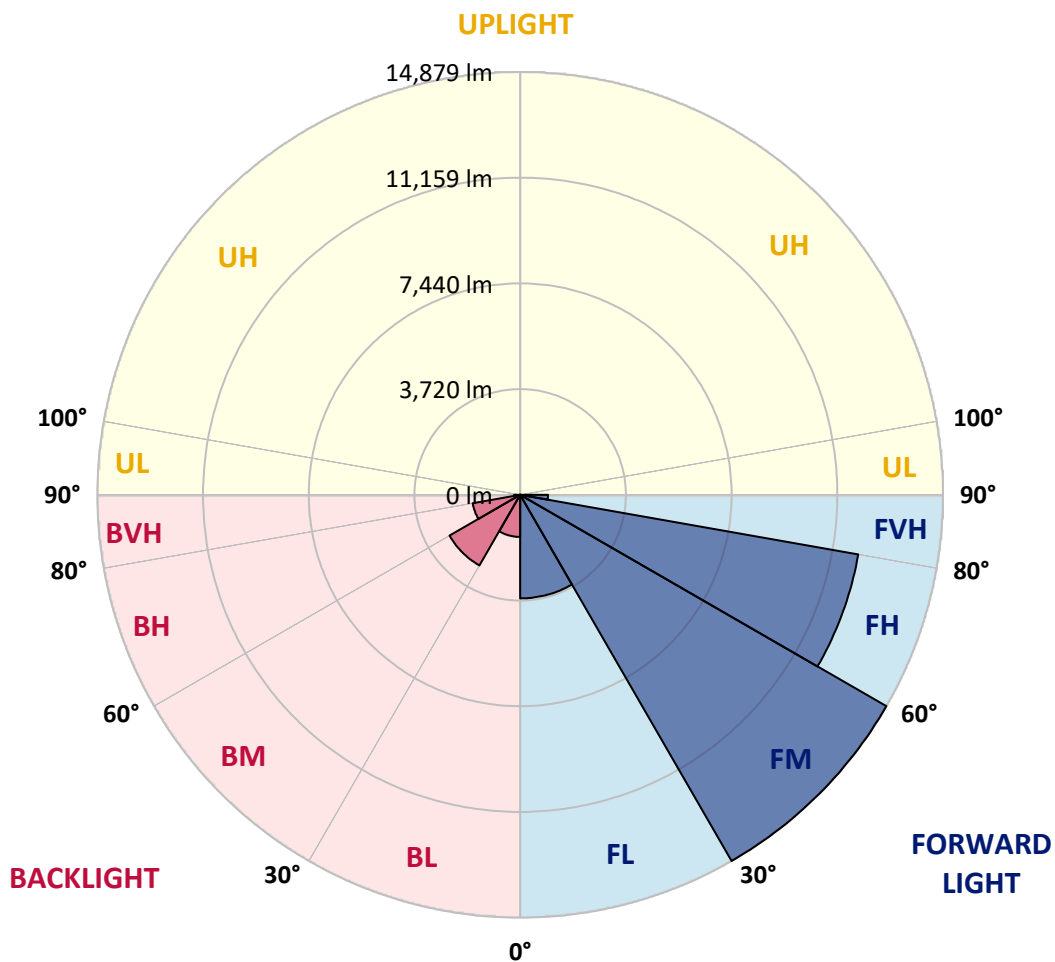
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	13016.7	12567.3	12099.2	11814.1	11481.2	11221.1	10992.2	10534.4	10445.0	10526.2
5°	12494.4	11951.4	11104.5	10251.5	9683.5	9073.9	8599.4	8218.7	7638.2	7536.2	7658.9
7.5°	11223.2	10574.0	9454.6	8366.4	7563.3	6801.7	6289.9	5882.1	5428.5	5232.9	5245.4
10°	10126.7	9394.3	8071.0	6887.0	6229.6	5715.6	5284.9	4866.7	4406.9	4105.2	4021.9
12.5°	9512.8	8670.2	7145.0	6088.1	5478.4	4937.5	4473.5	4026.1	3535.1	3227.1	3139.7
15°	9406.7	8491.2	6797.6	5576.2	4812.6	4128.0	3580.8	3081.4	2575.9	2326.2	2274.2
17.5°	9866.6	8811.7	6685.2	5120.6	4186.3	3341.6	2669.5	2111.9	1699.9	1575.0	1564.7
20°	10748.8	9427.5	6670.7	4692.0	3568.4	2577.9	1860.1	1454.4	1273.4	1238.0	1240.1
22.5°	11986.7	10382.5	6849.6	4369.4	3000.3	1922.5	1398.2	1217.2	1146.4	1113.2	1113.2
25°	13588.9	11697.5	7261.5	4134.3	2507.3	1535.6	1233.9	1125.7	1059.1	1036.1	1040.3
27.5°	15141.1	12977.2	7740.2	3949.1	2184.7	1394.1	1169.3	1071.5	1013.3	990.4	1000.9
30°	16352.1	14113.2	8139.6	3697.4	2020.3	1354.5	1192.2	1092.3	1009.1	973.7	975.8
32.5°	17354.9	15107.8	8474.6	3516.4	1874.7	1161.0	1027.9	984.2	973.7	932.1	911.3
35°	18636.6	16191.8	8699.3	3520.5	1806.0	1036.1	915.5	838.5	782.4	734.5	734.5
37.5°	20138.8	17436.1	8938.5	3568.4	1781.1	963.3	876.0	799.0	747.0	701.2	692.8
40°	21624.5	18655.3	9157.0	3614.1	1766.5	919.6	844.8	774.0	726.2	680.4	667.9
42.5°	22887.4	19658.3	9352.6	3637.0	1716.5	915.5	821.8	757.4	711.6	661.6	649.2
45°	23821.7	20498.8	9562.7	3672.4	1666.6	932.1	821.8	755.2	699.1	651.2	638.7
47.5°	24656.0	21485.0	9914.4	3672.4	1606.2	900.9	848.9	757.4	697.0	647.1	636.7
50°	25773.3	22837.5	10580.3	3587.1	1521.0	867.7	894.7	749.0	678.3	638.7	626.3
52.5°	27313.0	24570.7	11637.2	3439.4	1389.9	803.1	888.4	744.9	659.6	618.0	603.4
55°	29133.6	26426.7	12790.0	3266.7	1194.3	757.4	857.2	734.5	638.7	593.0	578.5
57.5°	30554.7	27704.2	13601.4	3000.3	1023.7	732.4	759.4	724.0	613.8	565.9	553.4
60°	31120.7	27654.2	13824.1	2644.5	940.5	711.6	663.7	811.5	593.0	545.1	530.6
62.5°	30814.9	26376.7	13199.9	2394.8	921.8	684.6	622.2	751.2	576.3	530.6	509.7
65°	29402.1	24113.0	11545.6	2328.2	975.8	657.5	595.1	588.8	553.4	509.7	489.0
67.5°	26324.7	20729.8	9244.4	2334.5	1044.5	630.4	568.0	538.9	522.2	486.9	468.1
70°	21441.4	16389.5	6891.2	2351.2	1079.8	599.2	538.9	507.7	489.0	453.6	441.1
72.5°	15765.3	12631.8	5006.1	2242.9	1086.1	563.9	499.4	472.3	453.6	416.1	405.7
75°	10786.2	9662.7	3472.6	1858.1	946.7	513.9	455.6	430.7	418.2	372.5	366.2
77.5°	7879.5	7253.2	2222.2	1379.4	730.3	451.5	401.6	382.9	374.5	324.6	316.3
80°	6323.2	5738.5	1389.9	944.6	534.7	378.7	337.1	326.6	318.3	268.4	262.2
82.5°	4386.1	3843.0	892.6	613.8	401.6	293.4	266.4	262.2	249.7	203.9	197.6
85°	2313.7	2086.9	565.9	418.2	291.3	201.8	185.2	185.2	178.9	135.2	131.0
87.5°	295.4	480.7	287.1	218.5	160.2	89.5	89.5	87.4	93.6	77.0	66.6
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°	10334.8	10434.6	10338.9	10345.1	10451.3	10767.5	10911.1	11029.7	11156.6	11239.8	11277.3
5°	7490.5	7723.5	7802.6	7969.0	8214.5	8618.2	8778.4	8894.9	8971.9	9017.6	9036.3
7.5°	5122.6	5264.1	5422.3	5690.7	6225.4	6462.6	6568.7	6541.7	6454.3	6423.0	6391.8
10°	3861.7	3805.6	3776.4	3924.1	4357.0	4596.2	4671.1	4598.3	4550.4	4560.8	4612.9
12.5°	2992.0	2894.2	2775.6	2759.0	3044.0	3258.3	3306.2	3310.4	3397.7	3474.8	3589.1
15°	2180.5	2170.2	2111.9	2076.5	2238.8	2413.6	2434.4	2471.9	2550.9	2607.1	2706.9
17.5°	1537.6	1593.8	1639.6	1662.5	1785.3	1910.1	1887.1	1868.4	1853.9	1853.9	1901.8
20°	1240.1	1277.6	1335.8	1402.4	1527.3	1614.6	1558.5	1483.5	1429.5	1412.8	1419.0
22.5°	1117.4	1146.4	1179.8	1238.0	1350.4	1410.6	1350.4	1296.3	1242.2	1223.4	1217.2
25°	1054.9	1092.3	1123.6	1167.3	1250.5	1292.1	1233.9	1194.3	1161.0	1138.1	1121.5
27.5°	1019.6	1052.8	1061.1	1082.0	1152.7	1190.1	1161.0	1144.4	1123.6	1102.7	1082.0
30°	982.0	975.8	961.3	963.3	1019.6	1057.0	1054.9	1059.1	1057.0	1050.8	1046.6
32.5°	896.8	884.2	871.8	884.2	936.3	969.6	971.7	980.0	980.0	977.9	994.5
35°	747.0	769.9	784.4	821.8	884.2	913.4	900.9	880.1	842.7	819.8	817.7
37.5°	690.8	695.0	720.0	771.9	840.6	867.7	848.9	801.1	776.1	771.9	778.2
40°	663.7	667.9	682.5	730.3	799.0	826.0	809.4	774.0	751.2	749.0	759.4
42.5°	645.0	649.2	657.5	690.8	747.0	780.2	782.4	757.4	730.3	732.4	742.8
45°	634.6	636.7	634.6	651.2	703.3	742.8	759.4	742.8	720.0	724.0	736.5
47.5°	632.5	626.3	618.0	622.2	676.2	715.8	736.5	730.3	720.0	724.0	734.5
50°	624.2	609.7	599.2	597.2	651.2	692.8	711.6	711.6	715.8	724.0	734.5
52.5°	599.2	582.6	582.6	576.3	634.6	674.1	686.6	688.8	695.0	709.5	724.0
55°	568.0	561.8	568.0	557.6	622.2	659.6	665.8	669.9	674.1	686.6	707.5
57.5°	540.9	532.7	547.2	543.1	611.7	645.0	645.0	653.4	653.4	669.9	686.6
60°	526.4	509.7	516.0	520.2	597.2	632.5	628.4	636.7	640.9	655.4	667.9
62.5°	507.7	493.2	493.2	503.5	580.5	613.8	611.7	618.0	634.6	638.7	651.2
65°	484.8	478.5	472.3	484.8	563.9	593.0	595.1	603.4	618.0	622.2	632.5
67.5°	461.9	464.0	451.5	464.0	549.3	572.1	572.1	588.8	595.1	603.4	613.8
70°	436.9	439.1	428.6	443.1	538.9	549.3	547.2	570.1	574.3	580.5	591.0
72.5°	405.7	405.7	401.6	422.4	522.2	526.4	522.2	540.9	543.1	549.3	553.4
75°	372.5	372.5	368.3	397.4	511.9	501.5	489.0	503.5	507.7	511.9	511.9
77.5°	328.8	332.9	332.9	368.3	476.5	491.0	449.4	457.8	464.0	466.1	459.8
80°	274.7	285.1	289.2	335.0	399.5	453.6	401.6	407.9	409.9	409.9	401.6
82.5°	210.1	228.8	239.3	289.2	305.9	380.7	349.5	355.8	349.5	337.1	332.9
85°	145.7	170.6	183.1	220.5	231.0	293.4	291.3	291.3	278.9	262.2	260.0
87.5°	79.1	93.6	102.0	131.0	158.1	197.6	214.3	208.1	197.6	187.3	189.3
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°	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8	12787.8
2.5°	11472.8	11755.9	12207.3	12552.7	12900.2	13235.1	13597.3	13874.0	14109.0	14200.6	14479.5
5°	9225.7	9579.4	10006.0	10775.9	11321.0	11922.3	12617.2	13536.9	13890.5	14379.5	15180.6
7.5°	6522.9	6843.3	7529.9	8152.1	8924.0	9775.0	10713.4	11982.6	12446.7	13231.1	14535.6
10°	4870.9	5243.3	5794.7	6319.0	6999.4	7869.2	8946.9	10366.0	10929.8	11780.8	13283.0
12.5°	3924.1	4363.2	4947.8	5441.0	5967.4	6581.2	7627.7	9184.2	9939.4	10684.3	12203.2
15°	3014.9	3474.8	4017.7	4644.1	5224.6	5886.3	6982.8	8684.8	9554.5	10330.6	11626.9
17.5°	2086.9	2480.1	3164.7	3818.1	4560.8	5407.7	6803.9	8790.8	9829.1	10723.8	11726.7
20°	1479.4	1704.0	2265.8	3023.2	3949.1	5012.4	6770.5	9348.4	10698.8	11720.5	12367.6
22.5°	1244.2	1327.5	1654.1	2349.1	3418.6	4716.9	6887.0	10130.8	11872.4	13176.9	13389.2
25°	1133.9	1183.9	1354.5	1843.5	2946.2	4502.6	7280.2	11296.0	13324.7	14633.4	14596.0
27.5°	1073.6	1125.7	1238.0	1556.3	2590.4	4369.4	7673.6	12677.5	14985.0	16214.7	15748.6
30°	1054.9	1125.7	1244.2	1466.9	2336.6	4159.3	7996.0	13890.5	16262.6	17282.1	16273.0
32.5°	1040.3	1050.8	1104.9	1265.1	2095.2	3913.7	8214.5	14978.8	17513.0	18297.4	17028.2
35°	840.6	892.6	980.0	1133.9	1953.7	3766.0	8214.5	15917.2	18744.9	19323.2	17748.2
37.5°	809.4	855.2	932.1	1063.3	1874.7	3693.2	8050.1	16822.2	20003.6	20486.3	18341.2
40°	792.8	830.2	903.1	1009.1	1841.4	3610.0	7810.8	17621.2	21233.3	21651.5	18894.6
42.5°	780.2	813.6	882.2	975.8	1797.7	3518.4	7617.4	18262.1	22300.7	22646.1	19423.1
45°	774.0	809.4	884.2	992.5	1710.3	3397.7	7552.9	18955.0	23178.7	23476.3	19995.3
47.5°	774.0	815.6	894.7	1027.9	1606.2	3272.9	7754.7	19868.4	24009.0	24154.5	20669.4
50°	767.7	813.6	923.8	992.5	1454.4	3114.8	8229.0	21019.0	24907.7	24924.4	21522.5
52.5°	755.2	809.4	994.5	971.7	1279.6	2906.7	8869.9	22496.2	26237.4	26337.2	22858.3
55°	740.7	803.1	975.8	923.8	1136.1	2659.1	9394.3	24291.9	28105.8	28382.5	24822.5
57.5°	722.0	794.8	944.6	857.2	1042.4	2340.7	9583.6	25606.9	29410.3	30105.3	27036.3
60°	705.3	788.6	853.0	817.7	984.2	2072.4	9217.4	25346.8	29320.9	30819.0	28998.4
62.5°	688.8	794.8	778.2	792.8	957.1	1899.6	8260.3	23264.0	27837.4	30082.4	30452.7
65°	669.9	738.7	734.5	771.9	950.8	1831.0	6847.5	20141.0	24970.2	27754.2	30796.1
67.5°	645.0	682.5	703.3	744.9	971.7	1770.6	5526.3	16614.2	20985.7	24264.8	29006.7
70°	618.0	649.2	672.1	711.6	959.2	1743.6	4596.2	13102.1	16651.7	19887.1	25475.8
72.5°	582.6	609.7	630.4	667.9	946.7	1729.0	3882.5	10551.1	12432.0	14772.8	20713.1
75°	540.9	565.9	580.5	618.0	907.2	1583.4	3052.4	8928.2	9302.7	10276.5	16497.6
77.5°	493.2	511.9	524.4	565.9	803.1	1317.0	2207.6	6887.0	7224.1	7461.3	12648.5
80°	436.9	455.6	461.9	501.5	665.8	1029.9	1439.8	5087.2	5403.5	5457.6	8260.3
82.5°	372.5	391.2	391.2	428.6	545.1	740.7	944.6	3485.1	3547.6	3730.7	5838.4
85°	299.6	314.1	314.1	332.9	422.4	553.4	649.2	1749.9	1731.1	1976.6	5058.1
87.5°	214.3	224.7	235.1	239.3	301.7	366.2	391.2	532.7	351.6	403.7	3248.0
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: P191335

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

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°	14689.6	14808.1	14687.5	14600.1	14223.5	13913.5	13499.5	13287.2
5°	15790.3	16091.9	15989.9	15623.8	14837.3	13953.0	12948.0	12494.4
7.5°	15657.1	16358.3	16374.9	15690.4	14531.4	13228.9	11868.2	11223.2
10°	14620.9	15517.7	15773.6	15109.9	13880.2	12423.7	10863.2	10126.7
12.5°	13464.1	14342.1	14537.7	14308.8	13281.0	11818.3	10234.8	9512.8
15°	12517.3	12910.6	13143.6	13343.4	12767.0	11576.8	10199.4	9406.7
17.5°	11941.0	11897.3	11963.9	12311.3	12409.1	11853.6	10740.5	9866.6
20°	11732.9	11065.1	11048.4	11526.9	12240.6	12513.1	11797.4	10748.8
22.5°	11847.4	10765.4	10628.0	11196.1	12330.1	13464.1	13183.2	11986.7
25°	12242.7	10790.4	10680.1	11229.4	12654.7	14477.3	14679.1	13588.9
27.5°	12864.8	10948.5	10802.9	11366.7	13085.4	15328.3	16152.3	15141.1
30°	13455.7	11223.2	11042.1	11637.2	13478.6	15665.4	17055.4	16352.1
32.5°	14173.6	11737.1	11418.8	12134.5	13965.5	16202.2	17860.5	17354.9
35°	14876.9	12469.5	12074.2	12902.3	14508.5	16870.1	18780.1	18636.6
37.5°	15648.8	13426.6	13099.9	13894.7	15251.4	17500.5	19953.7	20138.8
40°	16472.7	14695.8	14308.8	15342.9	16404.0	18291.2	21179.2	21624.5
42.5°	17302.9	16104.4	15642.6	16691.2	17671.2	19071.5	22227.9	22887.4
45°	18253.7	17633.7	17415.2	18549.3	18888.4	19814.3	23001.9	23821.7
47.5°	19360.7	19369.1	19720.7	20174.2	20116.0	20654.9	23780.0	24656.0
50°	20652.8	21535.0	22311.1	22612.8	21381.0	21557.9	24860.0	25773.3
52.5°	22205.0	24125.5	25086.7	24889.0	22743.9	22660.6	26570.2	27313.0
55°	24146.2	26867.8	27822.8	27681.4	24310.6	24162.9	28700.8	29133.6
57.5°	26393.4	29524.8	30402.8	29766.1	26191.5	25810.8	30463.2	30554.7
60°	28368.0	31630.5	32400.3	31694.9	28089.1	27564.8	31563.9	31120.7
62.5°	29466.5	32344.1	32885.1	32125.7	29389.6	29433.3	31805.2	30814.9
65°	28975.5	30540.2	30714.9	30652.5	29054.6	30517.3	30937.6	29402.1
67.5°	26287.3	25979.4	26272.8	26678.5	26183.2	29090.0	28534.4	26324.7
70°	21551.6	19860.1	20444.7	20717.3	20942.1	25032.6	24766.3	21441.4
72.5°	16241.8	13913.5	14375.4	14319.3	15359.5	20078.5	19260.8	15765.3
75°	11508.2	9433.8	9492.1	9469.1	10717.6	15709.1	13946.8	10786.2
77.5°	8052.3	6835.1	6866.3	6995.2	7205.4	11847.4	9964.4	7879.5
80°	5536.7	5187.1	5359.9	5370.2	4993.6	7958.6	7361.5	6323.2
82.5°	4123.9	3605.8	3564.2	3624.5	3913.7	6448.0	5657.3	4386.1
85°	3377.0	2134.8	1716.5	2151.5	3468.5	6385.6	3757.7	2313.7
87.5°	1901.8	1013.3	457.8	848.9	1383.6	4228.0	1086.1	295.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)