

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: P193848

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193848  
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-10-LED-E1-SLL-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 46347 lumens  
Efficiency: N/A  
Efficacy: 72.4 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): 640  
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

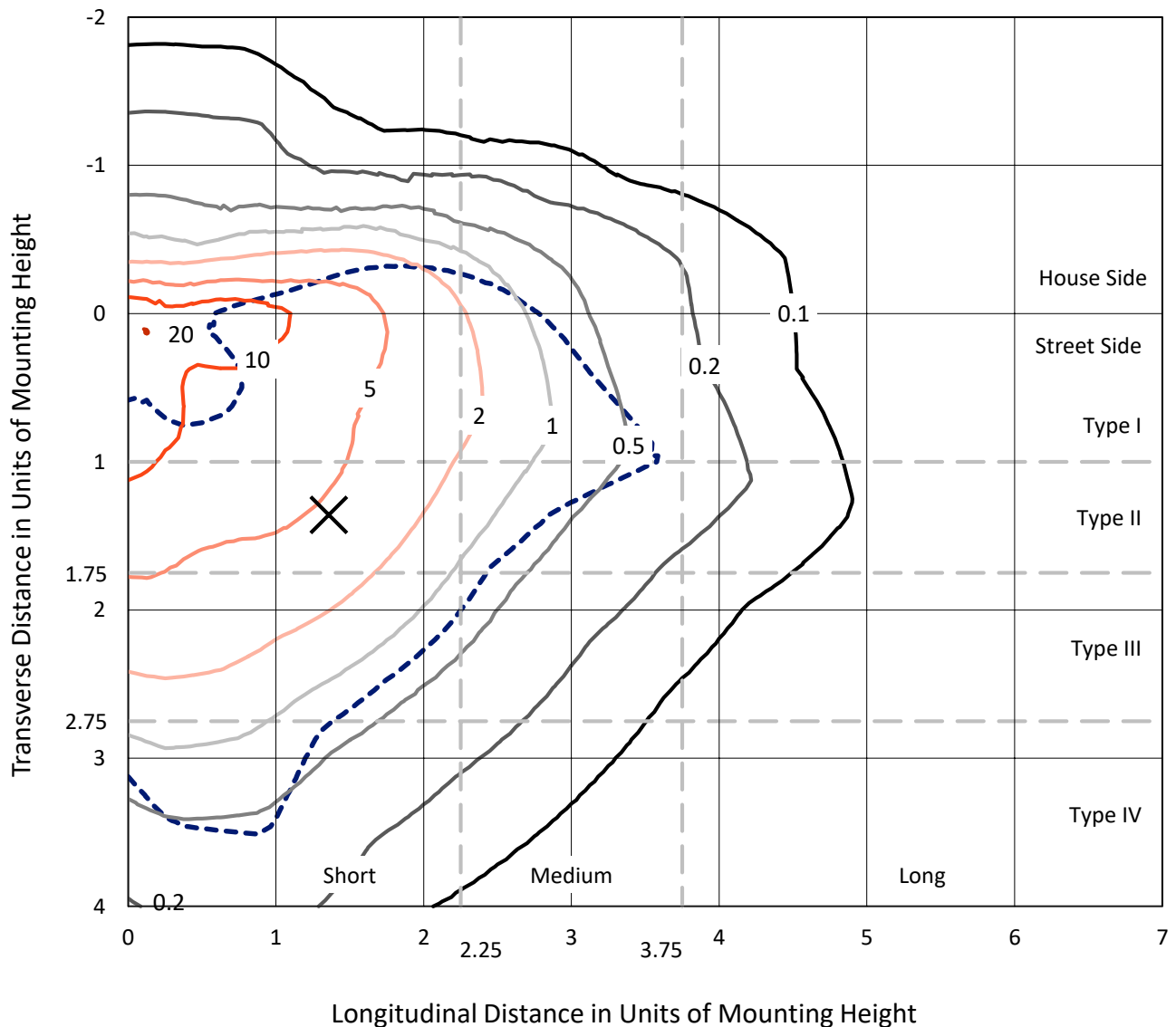


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

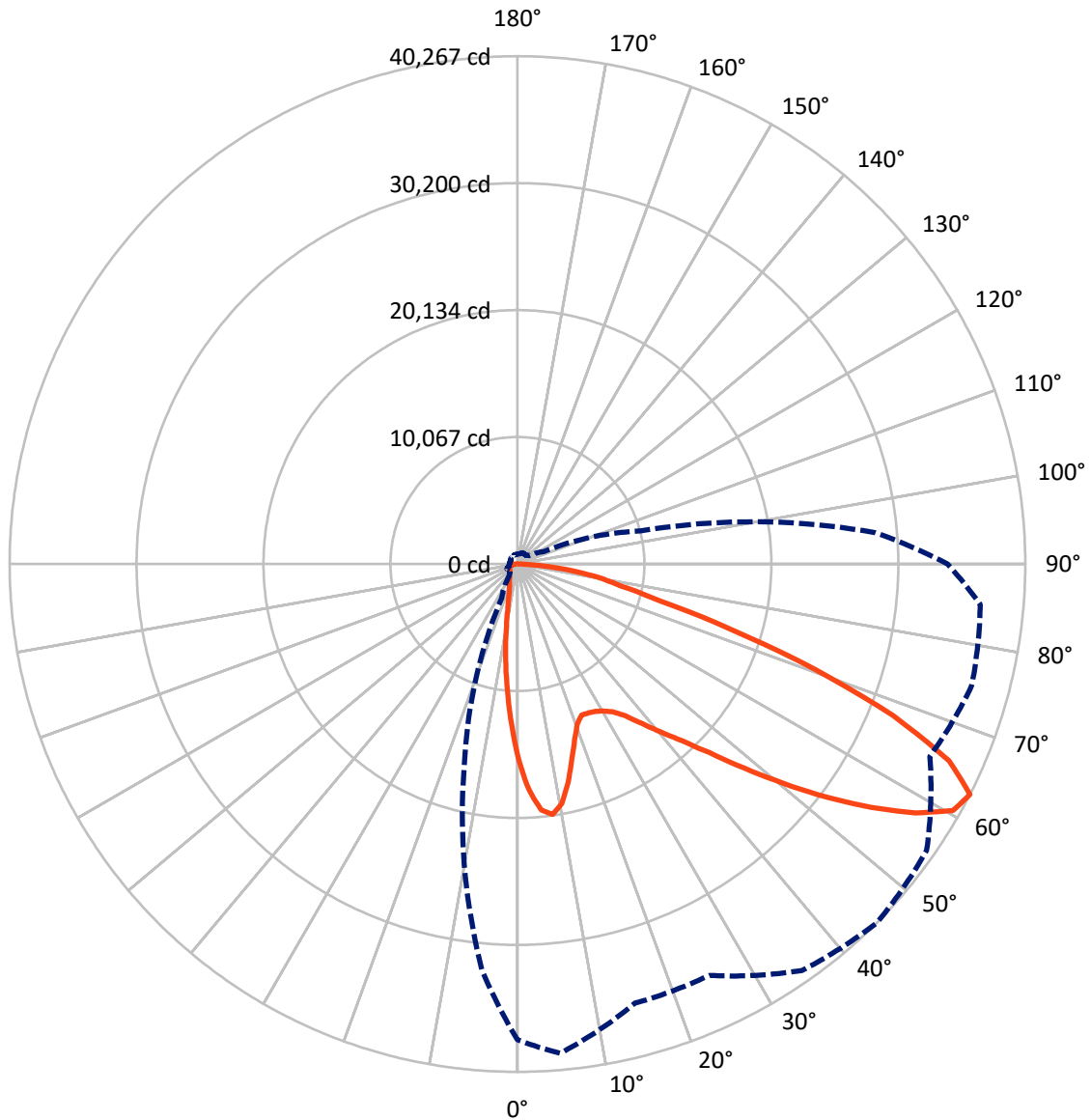


Based on 30 foot mounting height. Maximum calculated value = 20.5 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	7669.8	0.0	7669.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	38677.2	0.0	38677.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	46347.0	0.0	46347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1139.9	2.5
10°-20°	2090.2	4.5
20°-30°	3047.5	6.6
30°-40°	4693.6	10.1
40°-50°	6907.8	14.9
50°-60°	10132.3	21.9
60°-70°	11326.4	24.4
70°-80°	5545.3	12.0
80°-90°	1464.1	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°	46347.0	100.0
0°-180°	46347.0	100.0

**Coefficient of Utilization**



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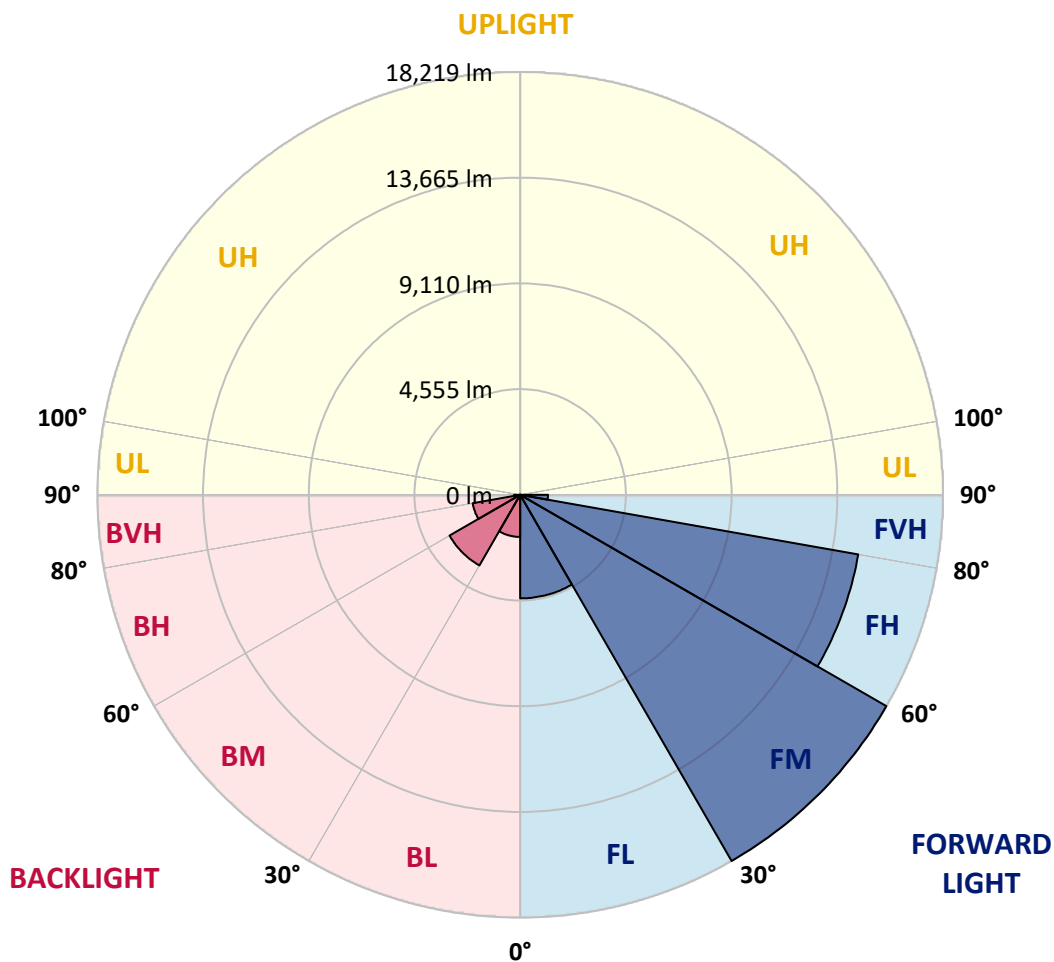
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4463.1	9.6			
FM	(30°-60°)	18219.4	39.3			
FH	(60°-80°)	14792.4	31.9			G5
FVH	(80°-90°)	1202.4	2.6			G5
BL	(0°-30°)	1814.5	3.9	B3/2500		
BM	(30°-60°)	3514.2	7.6	B3/5000		
BH	(60°-80°)	2079.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	261.7	0.6			G3/500
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°	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5
2.5°	16270.0	16529.8	17036.8	17416.5	17877.6	17984.6	18132.4	17987.2	17729.8	17388.4	17276.3
5°	15299.3	15854.7	17085.3	18168.1	19131.1	19579.5	19704.4	19334.9	18588.4	17607.5	17008.8
7.5°	13742.6	14532.4	16198.6	17793.5	19212.6	20050.8	20030.5	19171.9	17798.6	16201.2	15240.7
10°	12399.9	13301.8	15212.7	16996.1	18501.8	19314.5	19001.2	17903.1	16264.9	14425.4	13383.4
12.5°	11648.3	12532.4	14471.3	16262.3	17520.9	17801.2	17561.7	16486.5	14942.6	13082.7	12170.6
15°	11518.4	12489.1	14175.7	15633.0	16338.8	16094.2	15808.8	15327.3	14236.9	12649.6	11699.3
17.5°	12081.5	13151.5	14514.6	15194.8	15075.1	14649.6	14568.1	14621.6	14359.2	13131.1	12035.6
20°	13161.7	14445.8	15322.2	14988.5	14114.6	13528.6	13549.0	14366.8	15143.9	14351.5	13100.6
22.5°	14677.6	16142.6	16486.5	15098.0	13709.5	13013.9	13182.1	14506.9	16394.8	16134.9	14537.5
25°	16639.4	17974.4	17727.3	15495.5	13750.2	13077.6	13212.7	14991.0	17872.5	17918.4	16315.8
27.5°	18540.0	19778.2	18769.3	16022.8	13918.4	13228.0	13406.3	15752.8	19284.0	19854.7	18348.9
30°	20022.8	20884.0	19182.1	16504.4	14249.6	13520.9	13742.6	16476.3	19926.0	21161.7	19913.3
32.5°	21250.8	21869.9	19839.4	17100.5	14858.5	13982.1	14371.9	17355.3	20850.8	22405.0	21444.5
35°	22820.3	22996.1	20657.2	17765.5	15798.6	14784.6	15268.7	18216.5	21732.4	23661.0	22952.7
37.5°	24659.7	24433.0	21429.2	18675.1	17013.9	16040.7	16440.7	19161.7	22458.5	25085.2	24494.1
40°	26478.8	25933.6	22397.3	20086.5	18787.2	17520.9	17994.8	20170.6	23136.2	26512.0	25999.9
42.5°	28025.3	27217.7	23352.7	21638.1	20438.1	19154.0	19719.6	21187.1	23783.3	27729.8	27306.9
45°	29169.3	28165.5	24262.3	23128.5	22713.3	21324.7	21592.2	22351.5	24483.9	28746.3	28382.0
47.5°	30190.9	29118.3	25291.6	24631.7	24703.0	24147.6	23717.1	23706.9	25309.4	29576.9	29398.6
50°	31559.1	30440.6	26397.3	26180.7	27689.0	27319.6	26369.3	25289.0	26354.0	30519.6	30499.2
52.5°	33444.4	32534.9	27747.6	27849.5	30476.3	30718.3	29541.2	27189.7	27989.7	32249.5	32127.2
55°	35673.7	35143.8	29587.1	29768.0	33895.4	34068.6	32899.2	29566.7	30394.7	34754.0	34415.1
57.5°	37413.8	37301.7	31604.9	32071.2	36448.2	37227.8	36152.7	32318.3	33105.6	36863.5	36012.5
60°	38106.8	38649.5	33752.7	34394.7	38810.0	39673.7	38731.0	34736.1	35508.1	37737.4	35903.0
62.5°	37732.3	38945.0	36040.6	35987.1	39337.4	40267.3	39604.9	36081.3	37289.0	36835.5	34086.4
65°	36002.4	37882.6	37367.9	35576.9	37533.6	37610.0	37396.0	35480.1	37709.3	33984.5	30575.6
67.5°	32234.2	34939.9	35620.2	32061.0	32667.3	32170.5	31811.3	32188.4	35518.3	29711.9	25696.7
70°	26254.6	30325.9	30652.1	25643.2	25368.0	25034.3	24318.3	26389.7	31194.7	24351.5	20389.7
72.5°	19304.4	23584.6	24585.9	18807.5	17533.7	17602.5	17036.8	19887.8	25362.9	18089.1	15222.8
75°	13207.6	17077.6	19235.6	13123.5	11594.8	11622.9	11551.5	14091.6	20201.2	12583.4	11391.0
77.5°	9648.4	12201.2	14506.9	8822.9	8565.6	8407.6	8369.4	9859.8	15487.8	9136.3	8845.8
80°	7742.6	9014.0	9745.2	6114.6	6575.8	6563.0	6351.6	6779.6	10114.6	6682.8	6616.5
82.5°	5370.7	6927.4	7895.5	4792.3	4438.2	4364.3	4415.3	5049.7	7149.0	4568.1	4343.9
85°	2833.1	4601.2	7819.1	4247.1	2634.4	2101.9	2614.0	4135.0	6193.6	2420.4	2119.7
87.5°	361.8	1329.9	5177.0	1694.3	1039.5	560.5	1240.8	2328.6	3977.0	494.3	430.6
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°	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5
2.5°	16988.4	16649.6	16206.3	15796.1	15370.6	14947.7	14394.8	14048.3	13808.8	13763.0	13661.1
5°	16575.7	15449.6	14598.6	13862.3	13194.8	12252.2	11729.9	11296.8	11064.9	11042.0	10985.9
7.5°	14672.5	13118.4	11969.4	10927.3	9982.1	9220.3	8379.6	7987.2	7826.7	7864.9	7903.1
10°	12692.9	10955.4	9635.6	8570.7	7737.5	7095.5	6420.3	5964.3	5648.4	5584.7	5571.9
12.5°	11245.8	9340.1	8058.6	7307.0	6662.4	6058.6	5342.6	4805.1	4394.9	4254.8	4160.5
15°	10634.3	8550.3	7207.6	6397.4	5686.6	4919.7	4254.8	3691.7	3314.6	3192.3	3123.5
17.5°	10764.3	8331.2	6621.6	5584.7	4675.1	3875.1	3036.9	2555.4	2328.6	2270.1	2270.1
20°	11447.1	8290.4	6137.5	4835.6	3701.9	2774.5	2086.6	1811.5	1737.6	1729.9	1750.3
22.5°	12405.0	8433.1	5775.8	4186.0	2876.4	2025.5	1625.5	1523.6	1490.4	1498.1	1521.0
25°	13831.8	8914.6	5513.3	3607.6	2257.3	1658.6	1449.7	1388.5	1373.2	1393.6	1421.6
27.5°	15523.5	9396.1	5350.3	3172.0	1905.7	1515.9	1378.3	1314.6	1324.8	1350.3	1375.8
30°	17008.8	9791.0	5093.0	2861.1	1796.2	1523.6	1378.3	1291.7	1281.5	1286.6	1294.3
32.5°	18341.3	10058.5	4792.3	2565.6	1549.0	1352.9	1286.6	1273.9	1217.8	1197.4	1200.0
35°	19490.3	10058.5	4611.4	2392.3	1388.5	1200.0	1093.0	1029.3	1001.3	1003.8	1031.8
37.5°	20598.6	9857.3	4522.3	2295.5	1301.9	1141.4	1047.1	991.1	952.9	945.2	950.3
40°	21577.0	9564.3	4420.4	2254.8	1235.7	1105.7	1016.6	970.7	929.9	917.2	919.7
42.5°	22361.7	9327.3	4308.3	2201.3	1194.9	1080.2	996.2	955.4	909.5	896.8	894.3
45°	23210.1	9248.4	4160.5	2094.3	1215.3	1082.8	991.1	947.8	901.9	886.6	881.5
47.5°	24328.5	9495.5	4007.6	1966.9	1258.6	1095.5	998.7	947.8	899.4	886.6	881.5
50°	25737.4	10076.4	3814.0	1780.9	1215.3	1131.2	996.2	940.1	899.4	886.6	876.4
52.5°	27546.3	10861.1	3559.2	1566.9	1189.8	1217.8	991.1	924.8	886.6	868.8	851.0
55°	29745.1	11503.1	3256.0	1391.1	1131.2	1194.9	983.4	907.0	866.2	840.8	825.5
57.5°	31355.2	11735.0	2866.2	1276.4	1049.7	1156.7	973.2	884.1	840.8	820.4	800.0
60°	31036.8	11286.6	2537.6	1205.1	1001.3	1044.6	965.6	863.7	817.8	802.5	784.7
62.5°	28486.5	10114.6	2326.1	1172.0	970.7	952.9	973.2	843.3	797.4	782.2	777.1
65°	24662.3	8384.7	2242.0	1164.3	945.2	899.4	904.5	820.4	774.5	761.8	756.7
67.5°	20343.8	6766.8	2168.1	1189.8	912.1	861.1	835.7	789.8	751.6	738.8	728.7
70°	16043.2	5628.0	2135.0	1174.5	871.3	822.9	794.9	756.7	723.6	710.8	703.2
72.5°	12919.7	4754.1	2117.2	1159.2	817.8	772.0	746.5	713.4	677.7	672.6	665.0
75°	10932.4	3737.6	1938.8	1110.8	756.7	710.8	693.0	662.4	626.7	626.7	621.7
77.5°	8433.1	2703.2	1612.7	983.4	693.0	642.0	626.7	603.8	563.1	570.7	568.1
80°	6229.3	1763.0	1261.1	815.3	614.0	565.6	558.0	535.0	491.7	501.9	501.9
82.5°	4267.5	1156.7	907.0	667.5	524.8	479.0	479.0	456.0	407.6	412.7	428.0
85°	2142.7	794.9	677.7	517.2	407.6	384.7	384.7	366.9	318.5	321.0	341.4
87.5°	652.2	479.0	448.4	369.4	293.0	287.9	275.2	262.4	231.8	229.3	242.0
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°	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5
2.5°	13505.7	13360.4	13184.6	12797.4	12667.4	12659.8	12777.0	12654.7	12889.1	12789.7	12899.3
5°	10891.7	10749.0	10552.8	10058.5	9757.9	9554.1	9457.3	9171.9	9378.3	9228.0	9352.8
7.5°	8010.1	8043.3	7913.3	7622.9	6968.1	6639.5	6445.8	6272.6	6422.9	6407.6	6647.1
10°	5630.5	5719.7	5628.0	5335.0	4805.1	4624.2	4659.8	4728.6	4924.8	5026.7	5396.1
12.5°	4053.5	4048.4	3989.8	3727.4	3378.3	3398.7	3543.9	3663.7	3844.6	3951.6	4328.6
15°	3026.7	2980.9	2955.4	2741.4	2542.7	2586.0	2657.3	2670.0	2784.7	2848.4	3154.1
17.5°	2287.9	2310.8	2338.8	2186.0	2035.7	2007.6	1951.6	1882.8	1915.9	1928.7	2081.5
20°	1816.6	1908.3	1977.1	1870.1	1717.2	1635.7	1564.3	1518.5	1518.5	1515.9	1559.2
22.5°	1587.3	1653.5	1727.4	1653.5	1515.9	1444.6	1403.8	1368.1	1363.0	1363.0	1403.8
25°	1462.4	1510.8	1582.2	1531.2	1429.3	1375.8	1337.6	1291.7	1273.9	1268.8	1296.8
27.5°	1401.3	1421.6	1457.3	1411.5	1324.8	1299.4	1289.2	1248.4	1225.5	1212.7	1240.8
30°	1296.8	1291.7	1294.3	1248.4	1179.6	1177.1	1194.9	1202.5	1194.9	1192.4	1235.7
32.5°	1200.0	1189.8	1187.3	1146.5	1082.8	1067.5	1082.8	1098.1	1115.9	1141.4	1192.4
35°	1077.7	1103.2	1118.5	1082.8	1006.4	960.5	942.7	914.6	899.4	899.4	958.0
37.5°	980.9	1039.5	1062.4	1029.3	945.2	881.5	851.0	845.9	848.4	858.6	914.6
40°	947.8	991.1	1011.5	978.3	894.3	835.7	817.8	812.7	817.8	833.1	889.2
42.5°	927.4	958.0	955.4	914.6	845.9	805.1	794.9	789.8	794.9	810.2	871.3
45°	909.5	929.9	909.5	861.1	797.4	777.1	779.6	777.1	782.2	797.4	856.0
47.5°	894.3	901.9	876.4	828.0	761.8	756.7	766.9	774.5	779.6	792.4	853.5
50°	871.3	871.3	848.4	797.4	731.2	733.8	746.5	764.3	766.9	782.2	830.6
52.5°	843.3	840.8	825.5	777.1	705.7	713.4	713.4	733.8	738.8	756.7	807.6
55°	820.4	815.3	807.6	761.8	682.8	695.5	687.9	695.5	708.3	726.1	782.2
57.5°	800.0	789.8	789.8	749.0	665.0	670.1	652.2	662.4	677.7	693.0	751.6
60°	779.6	769.4	774.5	731.2	636.9	631.8	624.2	644.6	649.7	667.5	726.1
62.5°	756.7	749.0	751.6	710.8	616.6	603.8	603.8	621.7	624.2	649.7	705.7
65°	738.8	728.7	726.1	690.4	593.6	578.3	586.0	593.6	598.7	624.2	677.7
67.5°	721.0	700.6	700.6	672.6	568.1	552.9	568.1	565.6	573.2	596.2	639.5
70°	698.1	670.1	672.6	659.9	542.7	524.8	537.6	535.0	540.1	555.4	598.7
72.5°	662.4	639.5	644.6	639.5	517.2	491.7	496.8	496.8	496.8	509.6	555.4
75°	616.6	598.7	614.0	626.7	486.6	451.0	456.0	456.0	448.4	456.0	512.1
77.5°	560.5	550.3	601.3	583.4	451.0	407.6	407.6	402.5	387.3	397.5	458.6
80°	499.4	491.7	555.4	489.2	410.2	354.1	349.0	336.3	321.0	328.7	389.8
82.5°	435.7	428.0	466.2	374.5	354.1	293.0	280.3	257.3	242.0	249.7	305.7
85°	356.7	356.7	359.2	282.8	270.1	224.2	208.9	178.3	160.5	165.6	219.1
87.5°	254.8	262.4	242.0	193.6	160.5	124.8	114.6	96.8	81.5	94.3	114.6
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: P193848

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-8030-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5	15658.5
2.5°	13459.8	13740.1	14058.5	14466.2	14815.2	15388.5	15938.8	16270.0
5°	10063.6	10529.9	11110.8	11857.3	12552.8	13597.4	14634.3	15299.3
7.5°	7202.5	7701.9	8328.6	9261.1	10244.5	11577.0	12947.7	13742.6
10°	5959.2	6471.3	6998.7	7628.0	8433.1	9882.7	11503.1	12399.9
12.5°	4929.9	5477.7	6045.8	6708.2	7454.7	8749.0	10616.5	11648.3
15°	3773.2	4384.7	5054.7	5893.0	6828.0	8323.5	10397.4	11518.4
17.5°	2586.0	3268.8	4091.7	5126.1	6270.0	8185.9	10789.7	12081.5
20°	1780.9	2277.7	3156.7	4369.4	5745.2	8168.1	11543.9	13161.7
22.5°	1490.4	1712.1	2354.1	3673.9	5350.3	8387.2	12713.3	14677.6
25°	1378.3	1510.8	1880.2	3070.0	5062.4	8891.7	14323.5	16639.4
27.5°	1312.1	1431.8	1707.0	2675.1	4835.6	9477.7	15890.4	18540.0
30°	1337.6	1459.9	1658.6	2473.9	4527.4	9966.8	17281.4	20022.8
32.5°	1205.1	1258.6	1421.6	2295.5	4305.7	10377.0	18499.3	21250.8
35°	1026.7	1121.0	1268.8	2211.5	4310.8	10652.2	19826.6	22820.3
37.5°	978.3	1072.6	1179.6	2180.9	4369.4	10945.2	21350.2	24659.7
40°	947.8	1034.4	1126.1	2163.0	4425.5	11212.7	22843.2	26478.8
42.5°	927.4	1006.4	1121.0	2101.9	4453.5	11452.2	24071.2	28025.3
45°	924.8	1006.4	1141.4	2040.8	4496.8	11709.5	25100.5	29169.3
47.5°	927.4	1039.5	1103.2	1966.9	4496.8	12140.1	26308.1	30190.9
50°	917.2	1095.5	1062.4	1862.4	4392.3	12955.3	27964.2	31559.1
52.5°	912.1	1087.9	983.4	1701.9	4211.4	14249.6	30086.5	33444.4
55°	899.4	1049.7	927.4	1462.4	4000.0	15661.1	32359.1	35673.7
57.5°	886.6	929.9	896.8	1253.5	3673.9	16654.7	33923.4	37413.8
60°	993.6	812.7	871.3	1151.6	3238.2	16927.3	33862.2	38106.8
62.5°	919.7	761.8	838.2	1128.7	2932.5	16163.0	32297.9	37732.3
65°	721.0	728.7	805.1	1194.9	2850.9	14137.5	29526.0	36002.4
67.5°	659.9	695.5	772.0	1279.0	2858.6	11319.7	25383.3	32234.2
70°	621.7	659.9	733.8	1322.3	2879.0	8438.2	20068.7	26254.6
72.5°	578.3	611.5	690.4	1329.9	2746.5	6129.9	15467.4	19304.4
75°	527.4	558.0	629.3	1159.2	2275.1	4252.2	11831.8	13207.6
77.5°	468.8	491.7	552.9	894.3	1689.2	2721.0	8881.5	9648.4
80°	400.0	412.7	463.7	654.8	1156.7	1701.9	7026.7	7742.6
82.5°	321.0	326.1	359.2	491.7	751.6	1093.0	4705.7	5370.7
85°	226.8	226.8	247.1	356.7	512.1	693.0	2555.4	2833.1
87.5°	107.0	109.6	109.6	196.2	267.5	351.6	588.5	361.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)