

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: P269729

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269729  
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-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 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: 44984.2 lumens  
Efficiency: N/A  
Efficacy: 80.6 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): 558  
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

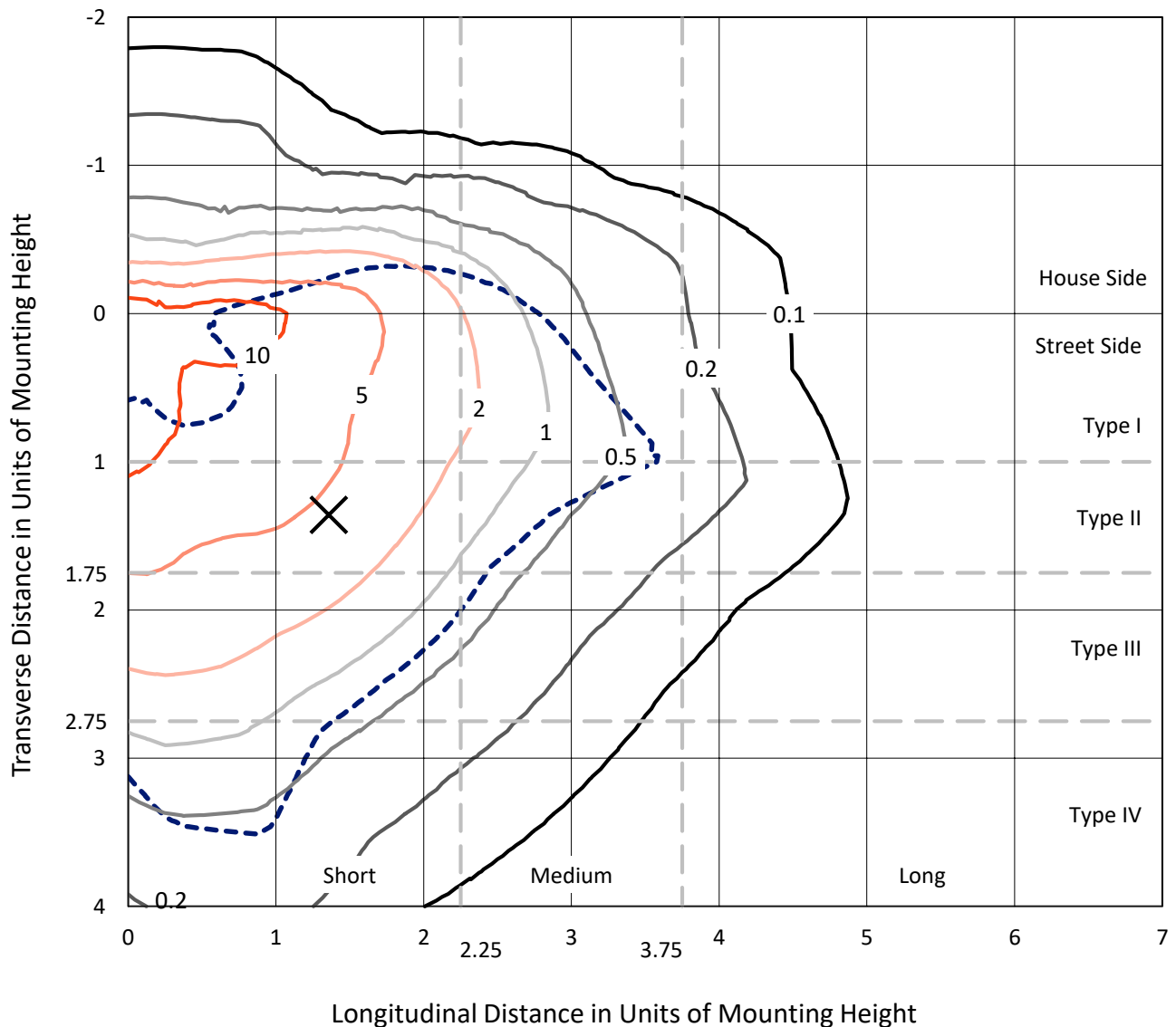


REPORT NUMBER: P269729

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027

### Iso-Footcandle Lines of Horizontal Illumination

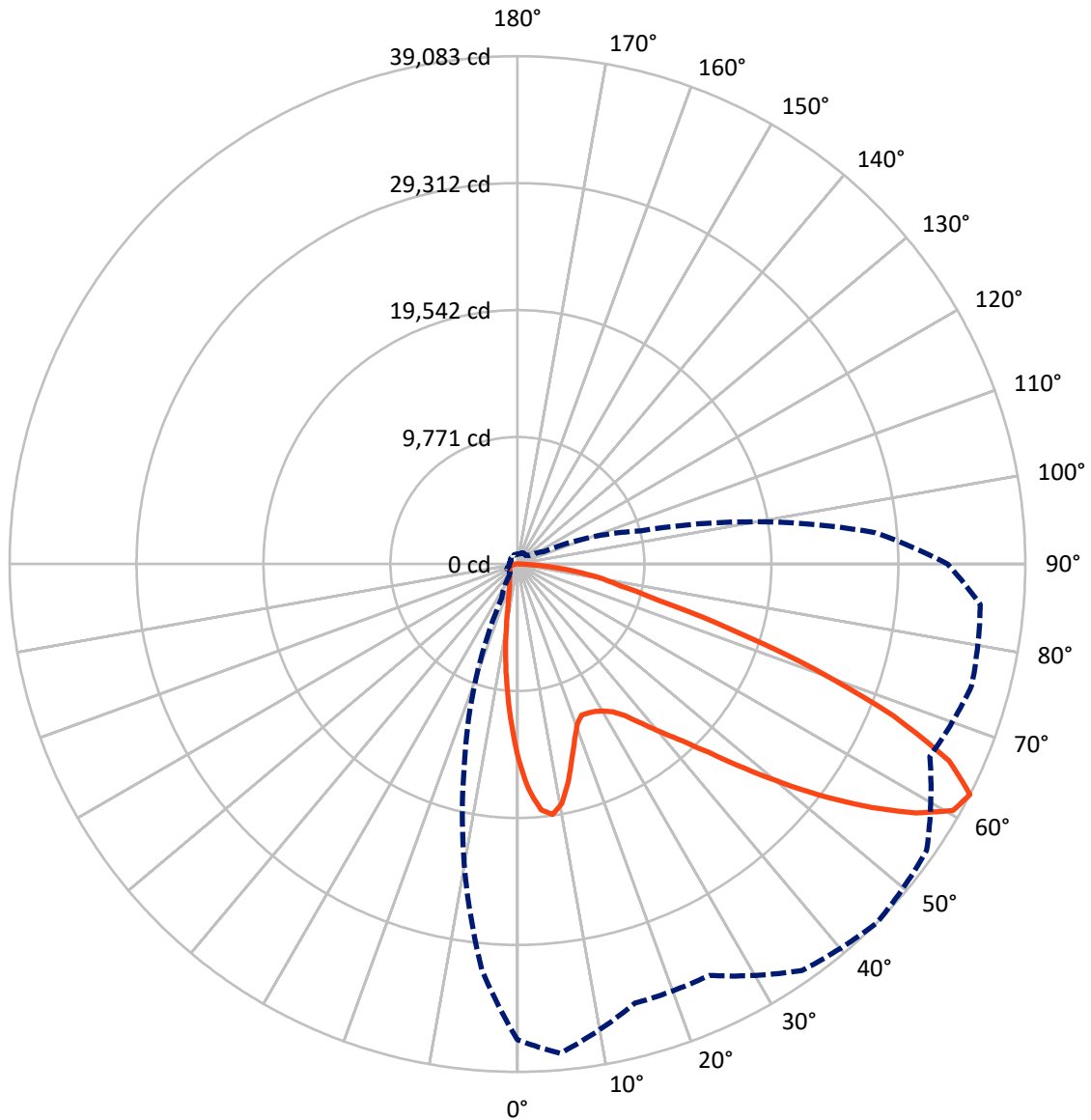
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269729  
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P269729

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7444.3	0.0	7444.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	37540.0	0.0	37540.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	44984.2	0.0	44984.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1106.4	2.5
10°-20°	2028.8	4.5
20°-30°	2957.9	6.6
30°-40°	4555.6	10.1
40°-50°	6704.7	14.9
50°-60°	9834.3	21.9
60°-70°	10993.4	24.4
70°-80°	5382.2	12.0
80°-90°	1421.0	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°	44984.2	100.0
0°-180°	44984.2	100.0



REPORT NUMBER: P269729

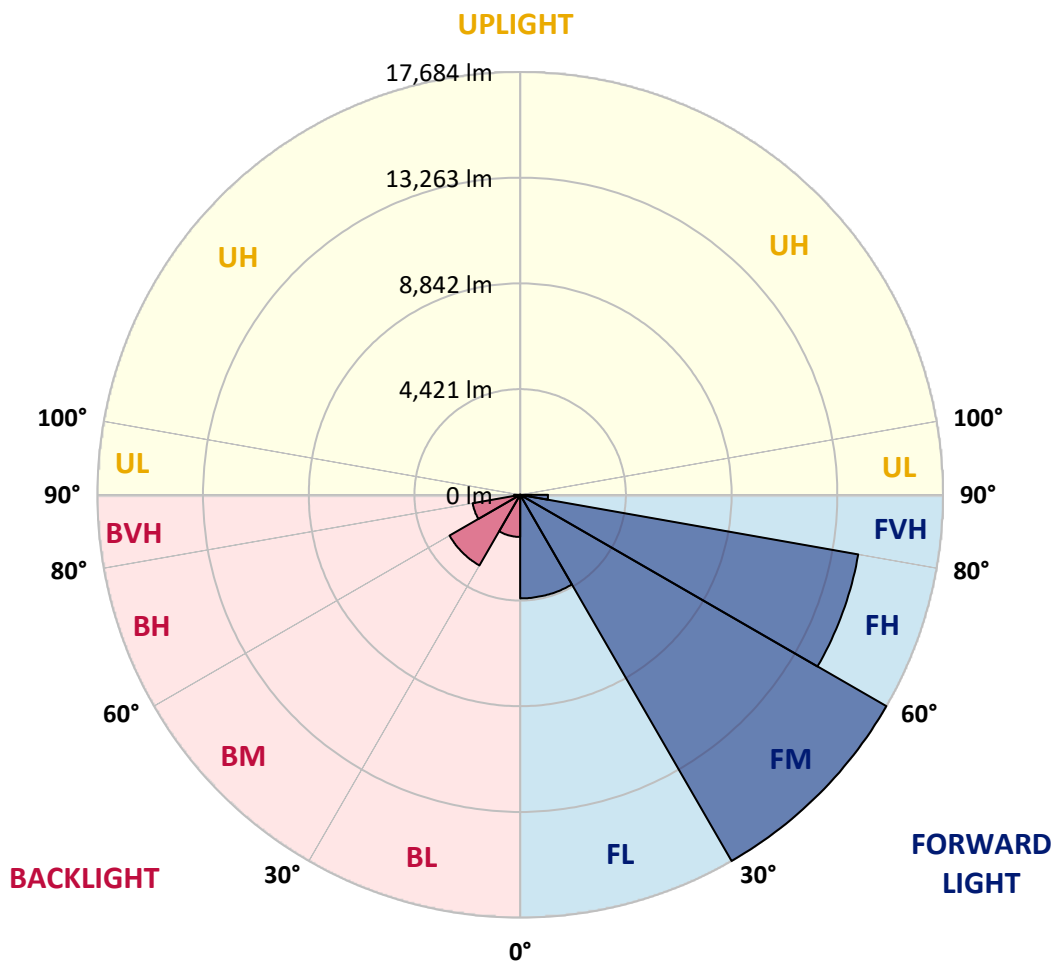
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4331.8	9.6			
FM	(30°-60°)	17683.7	39.3			
FH	(60°-80°)	14357.4	31.9			G5
FVH	(80°-90°)	1167.0	2.6			G5
BL	(0°-30°)	1761.2	3.9	B3/2500		
BM	(30°-60°)	3410.9	7.6	B3/5000		
BH	(60°-80°)	2018.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	254.0	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





REPORT NUMBER: P269729

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2
2.5°	15791.6	16043.8	16535.9	16904.3	17351.9	17455.9	17599.2	17458.3	17208.6	16877.1	16768.3
5°	14849.4	15388.5	16582.9	17633.9	18568.5	19003.9	19124.9	18766.4	18041.9	17089.8	16508.7
7.5°	13338.6	14105.0	15722.3	17270.4	18647.7	19461.3	19441.5	18608.1	17275.2	15724.8	14792.6
10°	12035.3	12910.7	14765.4	16496.4	17957.7	18746.5	18442.5	17376.6	15786.6	14001.3	12989.9
12.5°	11305.9	12163.9	14045.8	15784.2	17005.8	17277.8	17045.2	16001.8	14503.2	12698.0	11812.8
15°	11179.8	12121.9	13758.9	15173.5	15858.4	15620.9	15343.9	14876.7	13818.3	12277.7	11355.4
17.5°	11726.2	12764.8	14087.8	14748.1	14631.9	14218.8	14139.7	14191.7	13936.9	12745.1	11681.6
20°	12774.6	14021.0	14871.7	14547.7	13699.5	13130.9	13150.6	13944.4	14698.5	13929.6	12715.4
22.5°	14246.0	15668.0	16001.8	14654.1	13306.4	12631.2	12794.5	14080.4	15912.8	15660.5	14110.0
25°	16150.2	17446.0	17206.0	15039.9	13345.8	12693.1	12824.2	14550.1	17347.0	17391.5	15836.1
27.5°	17994.8	19196.7	18217.4	15551.6	13509.2	12839.0	13012.0	15289.6	18716.9	19270.9	17809.3
30°	19434.1	20270.0	18618.0	16019.0	13830.7	13123.3	13338.6	15991.8	19340.1	20539.4	19327.8
32.5°	20626.1	21226.9	19256.1	16597.8	14421.6	13571.0	13949.3	16844.9	20237.7	21746.2	20813.9
35°	22149.2	22319.8	20049.8	17243.1	15334.1	14350.0	14819.8	17680.8	21093.3	22965.3	22277.8
37.5°	23934.7	23714.5	20799.0	18125.9	16513.6	15569.1	15957.2	18598.2	21798.1	24347.7	23774.0
40°	25700.2	25171.0	21738.8	19495.8	18234.8	17005.8	17465.7	19577.5	22455.9	25732.4	25235.4
42.5°	27201.2	26417.4	22666.2	21001.8	19837.1	18590.9	19139.7	20564.2	23083.9	26914.5	26504.0
45°	28311.6	27337.3	23548.9	22448.5	22045.5	20697.7	20957.4	21694.2	23764.0	27901.0	27547.5
47.5°	29303.3	28262.1	24548.0	23907.4	23976.8	23437.6	23019.6	23009.8	24565.2	28707.2	28534.1
50°	30631.1	29545.6	25621.2	25411.0	26874.9	26516.3	25593.9	24545.5	25579.1	29622.1	29602.4
52.5°	32461.1	31578.2	26931.7	27030.7	29580.2	29815.0	28672.6	26390.1	27166.6	31301.4	31182.5
55°	34624.8	34110.4	28717.1	28892.7	32898.6	33066.9	31931.8	28697.3	29501.1	33732.1	33403.1
57.5°	36313.8	36204.8	30675.6	31128.2	35376.5	36133.2	35089.7	31368.1	32132.2	35779.6	34953.7
60°	36986.4	37513.0	32760.3	33383.4	37668.8	38507.1	37592.2	33714.7	34464.1	36627.9	34847.3
62.5°	36622.8	37799.9	34980.9	34928.9	38180.8	39083.3	38440.5	35020.5	36192.5	35752.5	33084.1
65°	34943.8	36768.7	36269.2	34530.8	36430.0	36504.2	36296.3	34436.9	36600.5	32985.3	29676.5
67.5°	31286.3	33912.5	34572.9	31118.2	31706.8	31224.5	30876.0	31242.0	34474.0	28838.3	24941.1
70°	25482.7	29434.3	29750.7	24889.2	24622.2	24298.2	23603.2	25613.7	30277.6	23635.5	19790.2
72.5°	18736.8	22891.1	23862.9	18254.5	17018.1	17084.9	16535.9	19303.0	24617.2	17557.3	14775.2
75°	12819.3	16575.4	18670.0	12737.6	11254.0	11281.2	11211.8	13677.4	19607.1	12213.4	11056.1
77.5°	9364.7	11842.4	14080.4	8563.5	8313.8	8160.5	8123.4	9570.0	15032.3	8867.6	8585.7
80°	7515.0	8749.0	9458.7	5934.8	6382.4	6370.1	6164.8	6580.3	9817.1	6486.3	6422.0
82.5°	5212.8	6723.6	7663.4	4651.5	4307.7	4236.0	4285.5	4901.2	6938.8	4433.9	4216.3
85°	2749.8	4466.0	7589.2	4122.2	2556.9	2040.1	2537.2	4013.4	6011.5	2349.2	2057.4
87.5°	351.1	1290.9	5024.8	1644.4	1008.9	544.1	1204.3	2260.1	3860.0	479.8	417.9
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: P269729

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2
2.5°	16488.8	16160.0	15729.7	15331.6	14918.7	14508.2	13971.6	13635.3	13402.8	13358.2	13259.4
5°	16088.4	14995.3	14169.3	13454.8	12806.9	11891.9	11384.9	10964.6	10739.5	10717.3	10662.9
7.5°	14241.1	12732.7	11617.4	10606.0	9688.6	8949.3	8133.2	7752.4	7596.5	7633.6	7670.7
10°	12319.7	10633.2	9352.3	8318.7	7510.0	6886.9	6231.5	5788.9	5482.3	5420.5	5408.1
12.5°	10915.1	9065.4	7821.6	7092.1	6466.4	5880.5	5185.6	4663.8	4265.6	4129.7	4038.2
15°	10321.6	8298.8	6995.7	6209.4	5519.4	4775.1	4129.7	3583.2	3217.2	3098.4	3031.7
17.5°	10447.7	8086.3	6427.0	5420.5	4537.7	3761.3	2947.6	2480.3	2260.1	2203.4	2203.4
20°	11110.4	8046.7	5957.1	4693.5	3593.0	2692.8	2025.3	1758.3	1686.5	1679.0	1698.9
22.5°	12040.3	8185.1	5606.0	4062.9	2791.8	1965.9	1577.7	1478.8	1446.6	1454.0	1476.3
25°	13425.1	8652.5	5351.3	3501.6	2191.0	1609.9	1407.0	1347.6	1332.8	1352.7	1379.8
27.5°	15067.0	9119.9	5193.0	3078.8	1849.7	1471.3	1337.8	1276.0	1285.8	1310.5	1335.3
30°	16508.7	9503.1	4943.3	2777.0	1743.3	1478.8	1337.8	1253.8	1243.9	1248.7	1256.2
32.5°	17802.0	9762.8	4651.5	2490.1	1503.6	1313.1	1248.7	1236.4	1182.0	1162.2	1164.7
35°	18917.2	9762.8	4475.9	2321.9	1347.6	1164.7	1060.9	999.0	971.8	974.3	1001.5
37.5°	19992.9	9567.5	4389.3	2228.1	1263.6	1107.8	1016.3	961.9	924.9	917.3	922.4
40°	20942.5	9283.1	4290.3	2188.5	1199.3	1073.3	986.7	942.1	902.5	890.2	892.6
42.5°	21704.2	9053.1	4181.6	2136.4	1159.7	1048.5	966.8	927.3	882.9	870.5	867.9
45°	22527.7	8976.5	4038.2	2032.7	1179.6	1050.9	961.9	920.0	875.4	860.5	855.5
47.5°	23613.1	9216.3	3889.8	1909.1	1221.5	1063.4	969.4	920.0	873.0	860.5	855.5
50°	24980.6	9780.0	3701.8	1728.5	1179.6	1098.0	966.8	912.5	873.0	860.5	850.7
52.5°	26736.4	10541.7	3454.5	1520.8	1154.9	1182.0	961.9	897.6	860.5	843.2	825.9
55°	28870.4	11164.9	3160.2	1350.2	1098.0	1159.7	954.4	880.2	840.8	816.0	801.2
57.5°	30433.3	11389.9	2782.0	1238.9	1018.8	1122.7	944.6	858.2	816.0	796.3	776.5
60°	30124.2	10954.7	2463.0	1169.7	971.8	1013.8	937.2	838.3	793.8	778.9	761.7
62.5°	27648.8	9817.1	2257.7	1137.6	942.1	924.9	944.6	818.5	774.0	759.2	754.1
65°	23937.1	8138.1	2176.1	1130.1	917.3	873.0	877.9	796.3	751.7	739.3	734.5
67.5°	19745.6	6567.9	2104.4	1154.9	885.3	835.9	811.1	766.6	729.6	717.1	707.2
70°	15571.5	5462.6	2072.2	1139.9	845.8	798.8	771.6	734.5	702.2	689.9	682.5
72.5°	12539.8	4614.4	2055.0	1125.1	793.8	749.2	724.6	692.5	657.7	652.8	645.4
75°	10611.0	3627.6	1881.8	1078.1	734.5	689.9	672.7	642.9	608.3	608.3	603.4
77.5°	8185.1	2623.7	1565.2	954.4	672.7	623.2	608.3	586.1	546.4	554.0	551.4
80°	6046.1	1711.2	1224.1	791.2	595.9	549.0	541.6	519.3	477.3	487.2	487.2
82.5°	4142.1	1122.7	880.2	647.9	509.3	465.0	465.0	442.7	395.7	400.6	415.5
85°	2079.7	771.6	657.7	502.1	395.7	373.3	373.3	356.1	309.0	311.6	331.4
87.5°	633.0	465.0	435.1	358.6	284.4	279.5	267.1	254.7	225.0	222.6	234.9
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: P269729

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2
2.5°	13108.5	12967.7	12797.0	12421.1	12295.0	12287.6	12401.3	12282.6	12510.2	12413.7	12519.9
5°	10571.4	10432.9	10242.6	9762.8	9471.0	9273.2	9179.2	8902.3	9102.5	8956.6	9077.8
7.5°	7774.7	7806.8	7680.7	7398.7	6763.2	6444.3	6256.2	6088.2	6234.1	6219.1	6451.6
10°	5465.0	5551.5	5462.6	5178.1	4663.8	4488.2	4522.8	4589.6	4780.1	4879.0	5237.5
12.5°	3934.2	3929.4	3872.5	3617.7	3279.1	3298.8	3439.7	3555.9	3731.5	3835.4	4201.4
15°	2937.7	2893.3	2868.5	2660.8	2468.0	2510.0	2579.2	2591.5	2702.8	2764.7	3061.3
17.5°	2220.6	2242.9	2270.0	2121.6	1975.8	1948.7	1894.2	1827.4	1859.6	1872.0	2020.3
20°	1763.2	1852.1	1918.9	1815.0	1666.6	1587.6	1518.3	1473.8	1473.8	1471.3	1513.4
22.5°	1540.6	1604.9	1676.5	1604.9	1471.3	1402.2	1362.5	1328.0	1322.9	1322.9	1362.5
25°	1419.4	1466.5	1535.7	1486.2	1387.3	1335.3	1298.2	1253.8	1236.4	1231.4	1258.6
27.5°	1360.0	1379.8	1414.6	1369.9	1285.8	1261.1	1251.2	1211.8	1189.4	1177.0	1204.3
30°	1258.6	1253.8	1256.2	1211.8	1144.9	1142.5	1159.7	1167.2	1159.7	1157.2	1199.3
32.5°	1164.7	1154.9	1152.3	1112.8	1050.9	1036.1	1050.9	1065.7	1083.0	1107.8	1157.2
35°	1045.9	1070.7	1085.6	1050.9	976.7	932.4	915.0	887.7	873.0	873.0	929.7
37.5°	952.1	1008.9	1031.2	999.0	917.3	855.5	825.9	821.1	823.4	833.4	887.7
40°	920.0	961.9	981.7	949.6	867.9	811.1	793.8	788.8	793.8	808.7	863.0
42.5°	900.1	929.7	927.3	887.7	821.1	781.4	771.6	766.6	771.6	786.3	845.8
45°	882.9	902.5	882.9	835.9	774.0	754.1	756.7	754.1	759.2	774.0	830.9
47.5°	867.9	875.4	850.7	803.7	739.3	734.5	744.3	751.7	756.7	769.0	828.3
50°	845.8	845.8	823.4	774.0	709.8	712.1	724.6	741.9	744.3	759.2	806.1
52.5°	818.5	816.0	801.2	754.1	685.0	692.5	692.5	712.1	717.1	734.5	784.0
55°	796.3	791.2	784.0	739.3	662.7	675.0	667.7	675.0	687.5	704.8	759.2
57.5°	776.5	766.6	766.6	727.0	645.4	650.4	633.0	642.9	657.7	672.7	729.6
60°	756.7	746.9	751.7	709.8	618.3	613.3	605.8	625.6	630.6	647.9	704.8
62.5°	734.5	727.0	729.6	689.9	598.5	586.1	586.1	603.4	605.8	630.6	685.0
65°	717.1	707.2	704.8	670.1	576.2	561.4	568.7	576.2	581.2	605.8	657.7
67.5°	699.8	680.0	680.0	652.8	551.4	536.6	551.4	549.0	556.4	578.7	620.6
70°	677.5	650.4	652.8	640.5	526.8	509.3	521.7	519.3	524.3	539.2	581.2
72.5°	642.9	620.6	625.6	620.6	502.1	477.3	482.2	482.2	482.2	494.5	539.2
75°	598.5	581.2	595.9	608.3	472.2	437.7	442.7	442.7	435.1	442.7	497.0
77.5°	544.1	534.1	583.5	566.3	437.7	395.7	395.7	390.8	375.9	385.7	445.1
80°	484.6	477.3	539.2	474.8	398.0	343.7	338.8	326.4	311.6	319.0	378.4
82.5°	422.8	415.5	452.6	363.5	343.7	284.4	271.9	249.8	234.9	242.4	296.7
85°	346.1	346.1	348.6	274.5	262.1	217.6	202.7	173.2	155.8	160.7	212.7
87.5°	247.4	254.7	234.9	187.9	155.8	121.2	111.3	94.0	79.1	91.4	111.3
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: P269729

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2	15198.2
2.5°	13064.1	13336.1	13645.2	14040.8	14379.6	14935.9	15470.2	15791.6
5°	9767.7	10220.2	10784.1	11508.6	12183.7	13197.5	14204.0	14849.4
7.5°	6990.7	7475.4	8083.8	8988.8	9943.2	11236.5	12567.0	13338.6
10°	5783.9	6280.9	6793.0	7403.7	8185.1	9592.1	11164.9	12035.3
12.5°	4784.9	5316.6	5868.1	6510.9	7235.6	8491.8	10304.4	11305.9
15°	3662.3	4255.8	4906.2	5719.7	6627.2	8078.7	10091.6	11179.8
17.5°	2510.0	3172.6	3971.3	4975.4	6085.7	7945.2	10472.5	11726.2
20°	1728.5	2210.6	3063.8	4240.9	5576.3	7927.9	11204.5	12774.6
22.5°	1446.6	1661.8	2284.8	3565.8	5193.0	8140.6	12339.5	14246.0
25°	1337.8	1466.5	1824.9	2979.8	4913.5	8630.2	13902.3	16150.2
27.5°	1273.4	1389.8	1656.8	2596.6	4693.5	9199.0	15423.1	17994.8
30°	1298.2	1416.9	1609.9	2401.1	4394.2	9673.8	16773.3	19434.1
32.5°	1169.7	1221.5	1379.8	2228.1	4179.2	10071.8	17955.3	20626.1
35°	996.6	1088.0	1231.4	2146.4	4184.0	10339.0	19243.8	22149.2
37.5°	949.6	1041.0	1144.9	2116.8	4240.9	10623.4	20722.5	23934.7
40°	920.0	1003.9	1093.0	2099.5	4295.3	10883.0	22171.5	25700.2
42.5°	900.1	976.7	1088.0	2040.1	4322.6	11115.4	23363.5	27201.2
45°	897.6	976.7	1107.8	1980.8	4364.5	11365.1	24362.5	28311.6
47.5°	900.1	1008.9	1070.7	1909.1	4364.5	11783.1	25534.6	29303.3
50°	890.2	1063.4	1031.2	1807.7	4263.1	12574.5	27141.8	30631.1
52.5°	885.3	1055.9	954.4	1651.9	4087.6	13830.7	29201.8	32461.1
55°	873.0	1018.8	900.1	1419.4	3882.4	15200.6	31407.6	34624.8
57.5°	860.5	902.5	870.5	1216.7	3565.8	16165.0	32925.9	36313.8
60°	964.4	788.8	845.8	1117.8	3143.0	16429.6	32866.6	36986.4
62.5°	892.6	739.3	813.5	1095.5	2846.2	15687.7	31348.2	36622.8
65°	699.8	707.2	781.4	1159.7	2767.0	13721.8	28657.8	34943.8
67.5°	640.5	675.0	749.2	1241.4	2774.5	10986.8	24636.9	31286.3
70°	603.4	640.5	712.1	1283.4	2794.3	8190.0	19478.6	25482.7
72.5°	561.4	593.5	670.1	1290.9	2665.7	5949.7	15012.7	18736.8
75°	511.9	541.6	610.8	1125.1	2208.3	4127.2	11483.9	12819.3
77.5°	455.0	477.3	536.6	867.9	1639.4	2640.9	8620.3	9364.7
80°	388.2	400.6	450.1	635.6	1122.7	1651.9	6820.1	7515.0
82.5°	311.6	316.6	348.6	477.3	729.6	1060.9	4567.3	5212.8
85°	220.1	220.1	239.8	346.1	497.0	672.7	2480.3	2749.8
87.5°	103.8	106.3	106.3	190.4	259.6	341.3	571.2	351.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)