

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: P269733

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269733
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-SLR-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 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

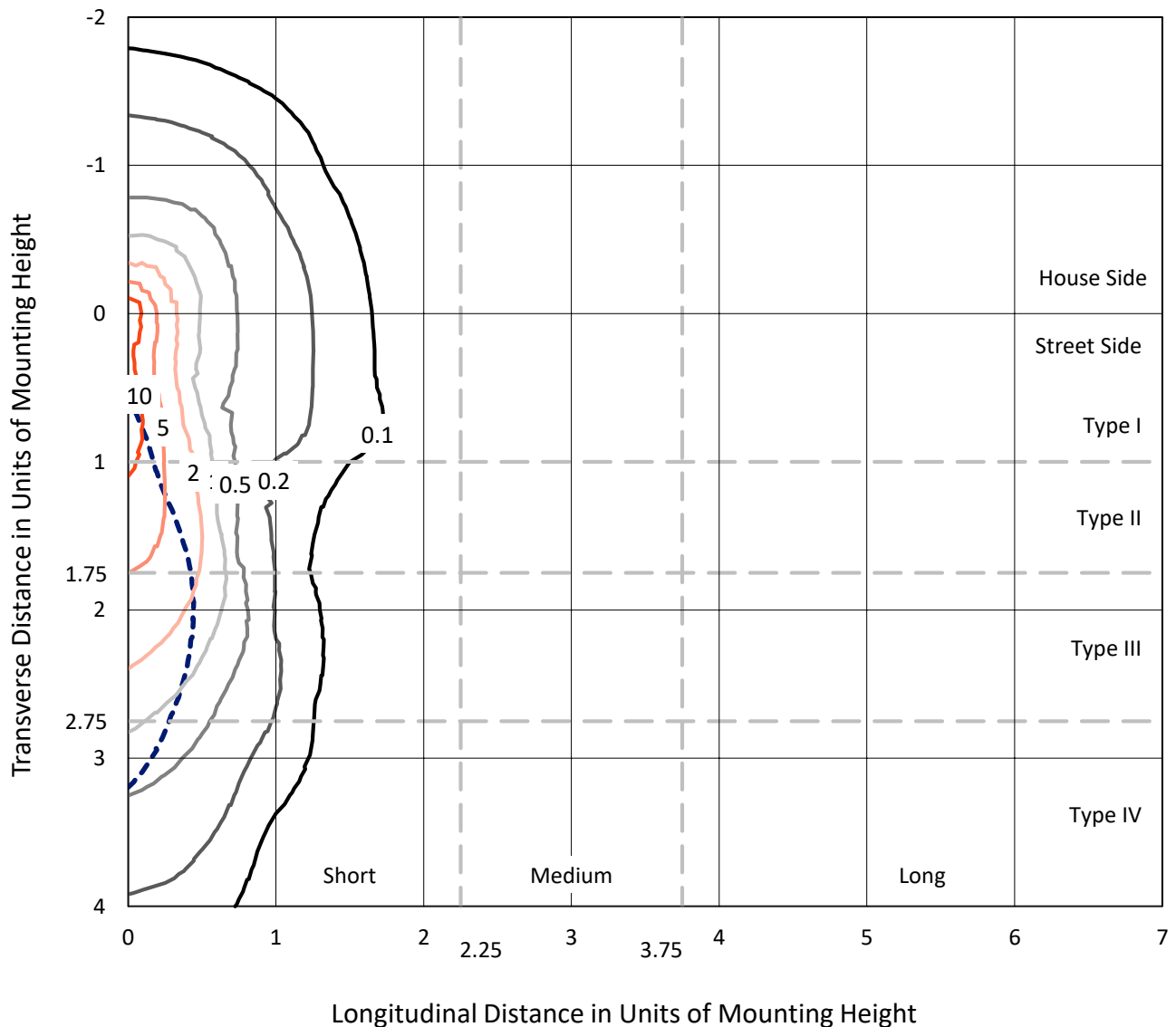


REPORT NUMBER: P269733

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

Iso-Footcandle Lines of Horizontal Illumination

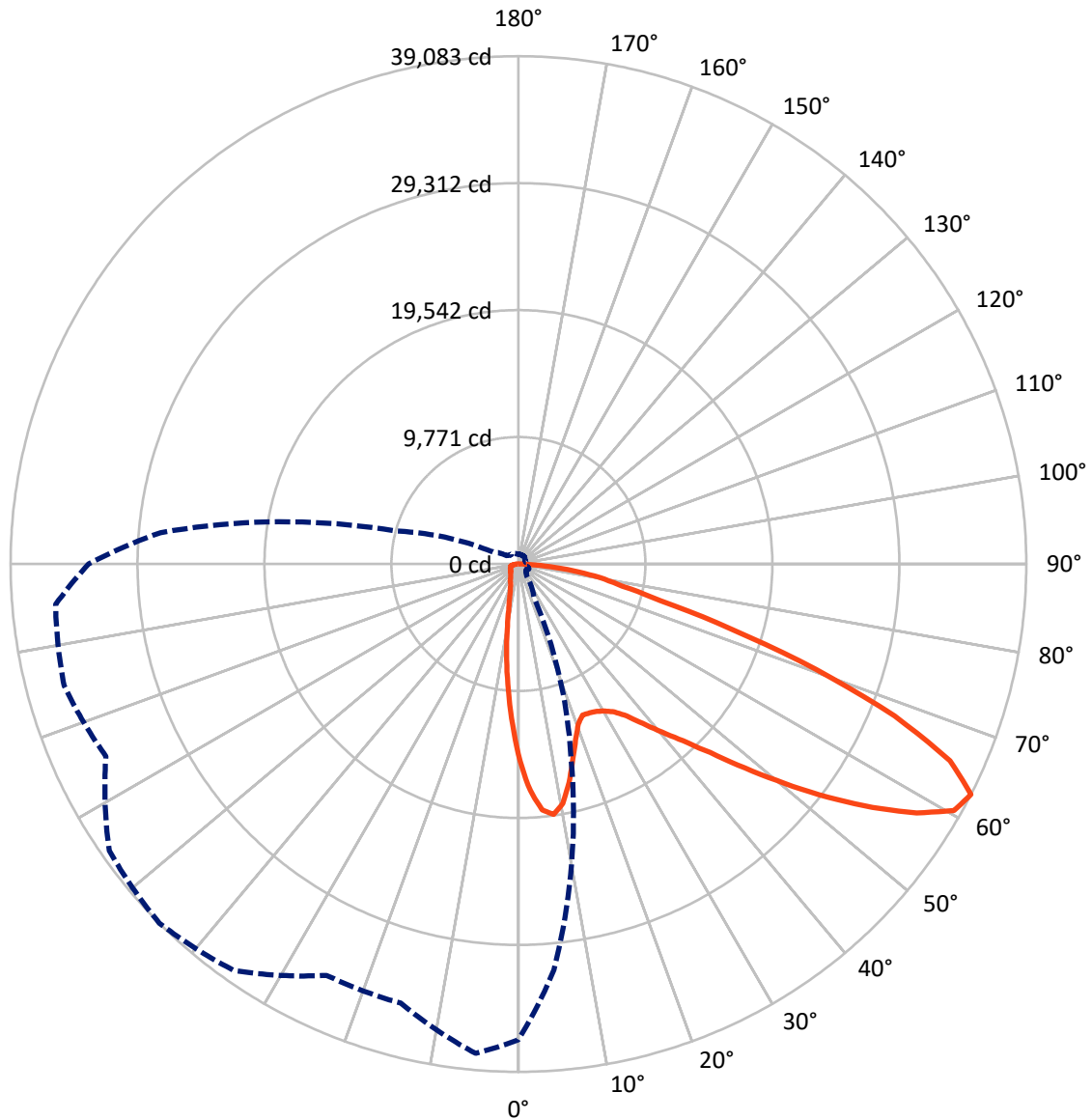
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269733
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P269733

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

FLUX DISTRIBUTION:

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

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

Coefficient of Utilization



REPORT NUMBER: P269733

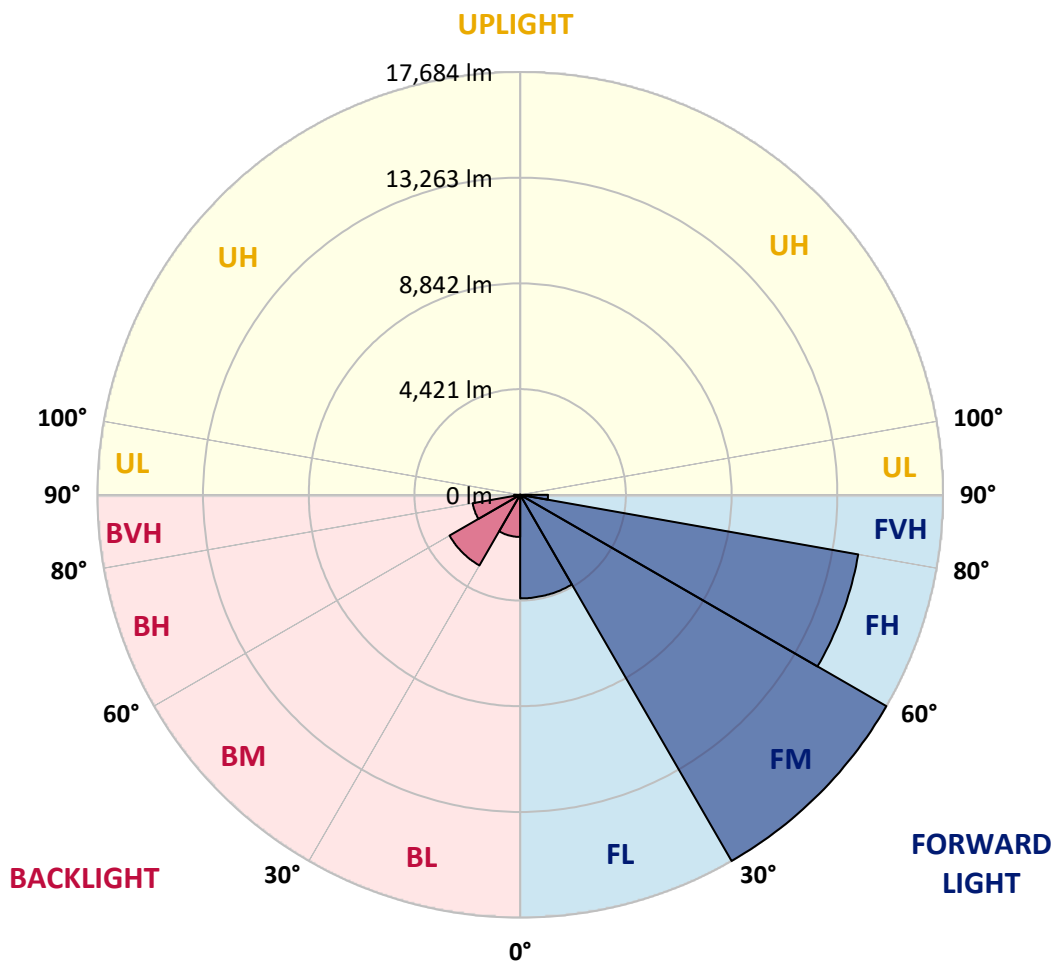
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7027

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: P269733

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-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	15470.2	14935.9	14379.6	14040.8	13645.2	13336.1	13064.1	12519.9	12413.7	12510.2
5°	14849.4	14204.0	13197.5	12183.7	11508.6	10784.1	10220.2	9767.7	9077.8	8956.6	9102.5
7.5°	13338.6	12567.0	11236.5	9943.2	8988.8	8083.8	7475.4	6990.7	6451.6	6219.1	6234.1
10°	12035.3	11164.9	9592.1	8185.1	7403.7	6793.0	6280.9	5783.9	5237.5	4879.0	4780.1
12.5°	11305.9	10304.4	8491.8	7235.6	6510.9	5868.1	5316.6	4784.9	4201.4	3835.4	3731.5
15°	11179.8	10091.6	8078.7	6627.2	5719.7	4906.2	4255.8	3662.3	3061.3	2764.7	2702.8
17.5°	11726.2	10472.5	7945.2	6085.7	4975.4	3971.3	3172.6	2510.0	2020.3	1872.0	1859.6
20°	12774.6	11204.5	7927.9	5576.3	4240.9	3063.8	2210.6	1728.5	1513.4	1471.3	1473.8
22.5°	14246.0	12339.5	8140.6	5193.0	3565.8	2284.8	1661.8	1446.6	1362.5	1322.9	1322.9
25°	16150.2	13902.3	8630.2	4913.5	2979.8	1824.9	1466.5	1337.8	1258.6	1231.4	1236.4
27.5°	17994.8	15423.1	9199.0	4693.5	2596.6	1656.8	1389.8	1273.4	1204.3	1177.0	1189.4
30°	19434.1	16773.3	9673.8	4394.2	2401.1	1609.9	1416.9	1298.2	1199.3	1157.2	1159.7
32.5°	20626.1	17955.3	10071.8	4179.2	2228.1	1379.8	1221.5	1169.7	1157.2	1107.8	1083.0
35°	22149.2	19243.8	10339.0	4184.0	2146.4	1231.4	1088.0	996.6	929.7	873.0	873.0
37.5°	23934.7	20722.5	10623.4	4240.9	2116.8	1144.9	1041.0	949.6	887.7	833.4	823.4
40°	25700.2	22171.5	10883.0	4295.3	2099.5	1093.0	1003.9	920.0	863.0	808.7	793.8
42.5°	27201.2	23363.5	11115.4	4322.6	2040.1	1088.0	976.7	900.1	845.8	786.3	771.6
45°	28311.6	24362.5	11365.1	4364.5	1980.8	1107.8	976.7	897.6	830.9	774.0	759.2
47.5°	29303.3	25534.6	11783.1	4364.5	1909.1	1070.7	1008.9	900.1	828.3	769.0	756.7
50°	30631.1	27141.8	12574.5	4263.1	1807.7	1031.2	1063.4	890.2	806.1	759.2	744.3
52.5°	32461.1	29201.8	13830.7	4087.6	1651.9	954.4	1055.9	885.3	784.0	734.5	717.1
55°	34624.8	31407.6	15200.6	3882.4	1419.4	900.1	1018.8	873.0	759.2	704.8	687.5
57.5°	36313.8	32925.9	16165.0	3565.8	1216.7	870.5	902.5	860.5	729.6	672.7	657.7
60°	36986.4	32866.6	16429.6	3143.0	1117.8	845.8	788.8	964.4	704.8	647.9	630.6
62.5°	36622.8	31348.2	15687.7	2846.2	1095.5	813.5	739.3	892.6	685.0	630.6	605.8
65°	34943.8	28657.8	13721.8	2767.0	1159.7	781.4	707.2	699.8	657.7	605.8	581.2
67.5°	31286.3	24636.9	10986.8	2774.5	1241.4	749.2	675.0	640.5	620.6	578.7	556.4
70°	25482.7	19478.6	8190.0	2794.3	1283.4	712.1	640.5	603.4	581.2	539.2	524.3
72.5°	18736.8	15012.7	5949.7	2665.7	1290.9	670.1	593.5	561.4	539.2	494.5	482.2
75°	12819.3	11483.9	4127.2	2208.3	1125.1	610.8	541.6	511.9	497.0	442.7	435.1
77.5°	9364.7	8620.3	2640.9	1639.4	867.9	536.6	477.3	455.0	445.1	385.7	375.9
80°	7515.0	6820.1	1651.9	1122.7	635.6	450.1	400.6	388.2	378.4	319.0	311.6
82.5°	5212.8	4567.3	1060.9	729.6	477.3	348.6	316.6	311.6	296.7	242.4	234.9
85°	2749.8	2480.3	672.7	497.0	346.1	239.8	220.1	220.1	212.7	160.7	155.8
87.5°	351.1	571.2	341.3	259.6	190.4	106.3	106.3	103.8	111.3	91.4	79.1
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: P269733

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-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°	12282.6	12401.3	12287.6	12295.0	12421.1	12797.0	12967.7	13108.5	13259.4	13358.2	13402.8
5°	8902.3	9179.2	9273.2	9471.0	9762.8	10242.6	10432.9	10571.4	10662.9	10717.3	10739.5
7.5°	6088.2	6256.2	6444.3	6763.2	7398.7	7680.7	7806.8	7774.7	7670.7	7633.6	7596.5
10°	4589.6	4522.8	4488.2	4663.8	5178.1	5462.6	5551.5	5465.0	5408.1	5420.5	5482.3
12.5°	3555.9	3439.7	3298.8	3279.1	3617.7	3872.5	3929.4	3934.2	4038.2	4129.7	4265.6
15°	2591.5	2579.2	2510.0	2468.0	2660.8	2868.5	2893.3	2937.7	3031.7	3098.4	3217.2
17.5°	1827.4	1894.2	1948.7	1975.8	2121.6	2270.0	2242.9	2220.6	2203.4	2203.4	2260.1
20°	1473.8	1518.3	1587.6	1666.6	1815.0	1918.9	1852.1	1763.2	1698.9	1679.0	1686.5
22.5°	1328.0	1362.5	1402.2	1471.3	1604.9	1676.5	1604.9	1540.6	1476.3	1454.0	1446.6
25°	1253.8	1298.2	1335.3	1387.3	1486.2	1535.7	1466.5	1419.4	1379.8	1352.7	1332.8
27.5°	1211.8	1251.2	1261.1	1285.8	1369.9	1414.6	1379.8	1360.0	1335.3	1310.5	1285.8
30°	1167.2	1159.7	1142.5	1144.9	1211.8	1256.2	1253.8	1258.6	1256.2	1248.7	1243.9
32.5°	1065.7	1050.9	1036.1	1050.9	1112.8	1152.3	1154.9	1164.7	1164.7	1162.2	1182.0
35°	887.7	915.0	932.4	976.7	1050.9	1085.6	1070.7	1045.9	1001.5	974.3	971.8
37.5°	821.1	825.9	855.5	917.3	999.0	1031.2	1008.9	952.1	922.4	917.3	924.9
40°	788.8	793.8	811.1	867.9	949.6	981.7	961.9	920.0	892.6	890.2	902.5
42.5°	766.6	771.6	781.4	821.1	887.7	927.3	929.7	900.1	867.9	870.5	882.9
45°	754.1	756.7	754.1	774.0	835.9	882.9	902.5	882.9	855.5	860.5	875.4
47.5°	751.7	744.3	734.5	739.3	803.7	850.7	875.4	867.9	855.5	860.5	873.0
50°	741.9	724.6	712.1	709.8	774.0	823.4	845.8	845.8	850.7	860.5	873.0
52.5°	712.1	692.5	692.5	685.0	754.1	801.2	816.0	818.5	825.9	843.2	860.5
55°	675.0	667.7	675.0	662.7	739.3	784.0	791.2	796.3	801.2	816.0	840.8
57.5°	642.9	633.0	650.4	645.4	727.0	766.6	766.6	776.5	776.5	796.3	816.0
60°	625.6	605.8	613.3	618.3	709.8	751.7	746.9	756.7	761.7	778.9	793.8
62.5°	603.4	586.1	586.1	598.5	689.9	729.6	727.0	734.5	754.1	759.2	774.0
65°	576.2	568.7	561.4	576.2	670.1	704.8	707.2	717.1	734.5	739.3	751.7
67.5°	549.0	551.4	536.6	551.4	652.8	680.0	680.0	699.8	707.2	717.1	729.6
70°	519.3	521.7	509.3	526.8	640.5	652.8	650.4	677.5	682.5	689.9	702.2
72.5°	482.2	482.2	477.3	502.1	620.6	625.6	620.6	642.9	645.4	652.8	657.7
75°	442.7	442.7	437.7	472.2	608.3	595.9	581.2	598.5	603.4	608.3	608.3
77.5°	390.8	395.7	395.7	437.7	566.3	583.5	534.1	544.1	551.4	554.0	546.4
80°	326.4	338.8	343.7	398.0	474.8	539.2	477.3	484.6	487.2	487.2	477.3
82.5°	249.8	271.9	284.4	343.7	363.5	452.6	415.5	422.8	415.5	400.6	395.7
85°	173.2	202.7	217.6	262.1	274.5	348.6	346.1	346.1	331.4	311.6	309.0
87.5°	94.0	111.3	121.2	155.8	187.9	234.9	254.7	247.4	234.9	222.6	225.0
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: P269733
 CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-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°	13635.3	13971.6	14508.2	14918.7	15331.6	15729.7	16160.0	16488.8	16768.3	16877.1	17208.6
5°	10964.6	11384.9	11891.9	12806.9	13454.8	14169.3	14995.3	16088.4	16508.7	17089.8	18041.9
7.5°	7752.4	8133.2	8949.3	9688.6	10606.0	11617.4	12732.7	14241.1	14792.6	15724.8	17275.2
10°	5788.9	6231.5	6886.9	7510.0	8318.7	9352.3	10633.2	12319.7	12989.9	14001.3	15786.6
12.5°	4663.8	5185.6	5880.5	6466.4	7092.1	7821.6	9065.4	10915.1	11812.8	12698.0	14503.2
15°	3583.2	4129.7	4775.1	5519.4	6209.4	6995.7	8298.8	10321.6	11355.4	12277.7	13818.3
17.5°	2480.3	2947.6	3761.3	4537.7	5420.5	6427.0	8086.3	10447.7	11681.6	12745.1	13936.9
20°	1758.3	2025.3	2692.8	3593.0	4693.5	5957.1	8046.7	11110.4	12715.4	13929.6	14698.5
22.5°	1478.8	1577.7	1965.9	2791.8	4062.9	5606.0	8185.1	12040.3	14110.0	15660.5	15912.8
25°	1347.6	1407.0	1609.9	2191.0	3501.6	5351.3	8652.5	13425.1	15836.1	17391.5	17347.0
27.5°	1276.0	1337.8	1471.3	1849.7	3078.8	5193.0	9119.9	15067.0	17809.3	19270.9	18716.9
30°	1253.8	1337.8	1478.8	1743.3	2777.0	4943.3	9503.1	16508.7	19327.8	20539.4	19340.1
32.5°	1236.4	1248.7	1313.1	1503.6	2490.1	4651.5	9762.8	17802.0	20813.9	21746.2	20237.7
35°	999.0	1060.9	1164.7	1347.6	2321.9	4475.9	9762.8	18917.2	22277.8	22965.3	21093.3
37.5°	961.9	1016.3	1107.8	1263.6	2228.1	4389.3	9567.5	19992.9	23774.0	24347.7	21798.1
40°	942.1	986.7	1073.3	1199.3	2188.5	4290.3	9283.1	20942.5	25235.4	25732.4	22455.9
42.5°	927.3	966.8	1048.5	1159.7	2136.4	4181.6	9053.1	21704.2	26504.0	26914.5	23083.9
45°	920.0	961.9	1050.9	1179.6	2032.7	4038.2	8976.5	22527.7	27547.5	27901.0	23764.0
47.5°	920.0	969.4	1063.4	1221.5	1909.1	3889.8	9216.3	23613.1	28534.1	28707.2	24565.2
50°	912.5	966.8	1098.0	1179.6	1728.5	3701.8	9780.0	24980.6	29602.4	29622.1	25579.1
52.5°	897.6	961.9	1182.0	1154.9	1520.8	3454.5	10541.7	26736.4	31182.5	31301.4	27166.6
55°	880.2	954.4	1159.7	1098.0	1350.2	3160.2	11164.9	28870.4	33403.1	33732.1	29501.1
57.5°	858.2	944.6	1122.7	1018.8	1238.9	2782.0	11389.9	30433.3	34953.7	35779.6	32132.2
60°	838.3	937.2	1013.8	971.8	1169.7	2463.0	10954.7	30124.2	34847.3	36627.9	34464.1
62.5°	818.5	944.6	924.9	942.1	1137.6	2257.7	9817.1	27648.8	33084.1	35752.5	36192.5
65°	796.3	877.9	873.0	917.3	1130.1	2176.1	8138.1	23937.1	29676.5	32985.3	36600.5
67.5°	766.6	811.1	835.9	885.3	1154.9	2104.4	6567.9	19745.6	24941.1	28838.3	34474.0
70°	734.5	771.6	798.8	845.8	1139.9	2072.2	5462.6	15571.5	19790.2	23635.5	30277.6
72.5°	692.5	724.6	749.2	793.8	1125.1	2055.0	4614.4	12539.8	14775.2	17557.3	24617.2
75°	642.9	672.7	689.9	734.5	1078.1	1881.8	3627.6	10611.0	11056.1	12213.4	19607.1
77.5°	586.1	608.3	623.2	672.7	954.4	1565.2	2623.7	8185.1	8585.7	8867.6	15032.3
80°	519.3	541.6	549.0	595.9	791.2	1224.1	1711.2	6046.1	6422.0	6486.3	9817.1
82.5°	442.7	465.0	465.0	509.3	647.9	880.2	1122.7	4142.1	4216.3	4433.9	6938.8
85°	356.1	373.3	373.3	395.7	502.1	657.7	771.6	2079.7	2057.4	2349.2	6011.5
87.5°	254.7	267.1	279.5	284.4	358.6	435.1	465.0	633.0	417.9	479.8	3860.0
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: P269733

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-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°	17458.3	17599.2	17455.9	17351.9	16904.3	16535.9	16043.8	15791.6
5°	18766.4	19124.9	19003.9	18568.5	17633.9	16582.9	15388.5	14849.4
7.5°	18608.1	19441.5	19461.3	18647.7	17270.4	15722.3	14105.0	13338.6
10°	17376.6	18442.5	18746.5	17957.7	16496.4	14765.4	12910.7	12035.3
12.5°	16001.8	17045.2	17277.8	17005.8	15784.2	14045.8	12163.9	11305.9
15°	14876.7	15343.9	15620.9	15858.4	15173.5	13758.9	12121.9	11179.8
17.5°	14191.7	14139.7	14218.8	14631.9	14748.1	14087.8	12764.8	11726.2
20°	13944.4	13150.6	13130.9	13699.5	14547.7	14871.7	14021.0	12774.6
22.5°	14080.4	12794.5	12631.2	13306.4	14654.1	16001.8	15668.0	14246.0
25°	14550.1	12824.2	12693.1	13345.8	15039.9	17206.0	17446.0	16150.2
27.5°	15289.6	13012.0	12839.0	13509.2	15551.6	18217.4	19196.7	17994.8
30°	15991.8	13338.6	13123.3	13830.7	16019.0	18618.0	20270.0	19434.1
32.5°	16844.9	13949.3	13571.0	14421.6	16597.8	19256.1	21226.9	20626.1
35°	17680.8	14819.8	14350.0	15334.1	17243.1	20049.8	22319.8	22149.2
37.5°	18598.2	15957.2	15569.1	16513.6	18125.9	20799.0	23714.5	23934.7
40°	19577.5	17465.7	17005.8	18234.8	19495.8	21738.8	25171.0	25700.2
42.5°	20564.2	19139.7	18590.9	19837.1	21001.8	22666.2	26417.4	27201.2
45°	21694.2	20957.4	20697.7	22045.5	22448.5	23548.9	27337.3	28311.6
47.5°	23009.8	23019.6	23437.6	23976.8	23907.4	24548.0	28262.1	29303.3
50°	24545.5	25593.9	26516.3	26874.9	25411.0	25621.2	29545.6	30631.1
52.5°	26390.1	28672.6	29815.0	29580.2	27030.7	26931.7	31578.2	32461.1
55°	28697.3	31931.8	33066.9	32898.6	28892.7	28717.1	34110.4	34624.8
57.5°	31368.1	35089.7	36133.2	35376.5	31128.2	30675.6	36204.8	36313.8
60°	33714.7	37592.2	38507.1	37668.8	33383.4	32760.3	37513.0	36986.4
62.5°	35020.5	38440.5	39083.3	38180.8	34928.9	34980.9	37799.9	36622.8
65°	34436.9	36296.3	36504.2	36430.0	34530.8	36269.2	36768.7	34943.8
67.5°	31242.0	30876.0	31224.5	31706.8	31118.2	34572.9	33912.5	31286.3
70°	25613.7	23603.2	24298.2	24622.2	24889.2	29750.7	29434.3	25482.7
72.5°	19303.0	16535.9	17084.9	17018.1	18254.5	23862.9	22891.1	18736.8
75°	13677.4	11211.8	11281.2	11254.0	12737.6	18670.0	16575.4	12819.3
77.5°	9570.0	8123.4	8160.5	8313.8	8563.5	14080.4	11842.4	9364.7
80°	6580.3	6164.8	6370.1	6382.4	5934.8	9458.7	8749.0	7515.0
82.5°	4901.2	4285.5	4236.0	4307.7	4651.5	7663.4	6723.6	5212.8
85°	4013.4	2537.2	2040.1	2556.9	4122.2	7589.2	4466.0	2749.8
87.5°	2260.1	1204.3	544.1	1008.9	1644.4	5024.8	1290.9	351.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)