

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: P269493

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269493  
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-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 32146.5 lumens  
Efficiency: N/A  
Efficacy: 82.2 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

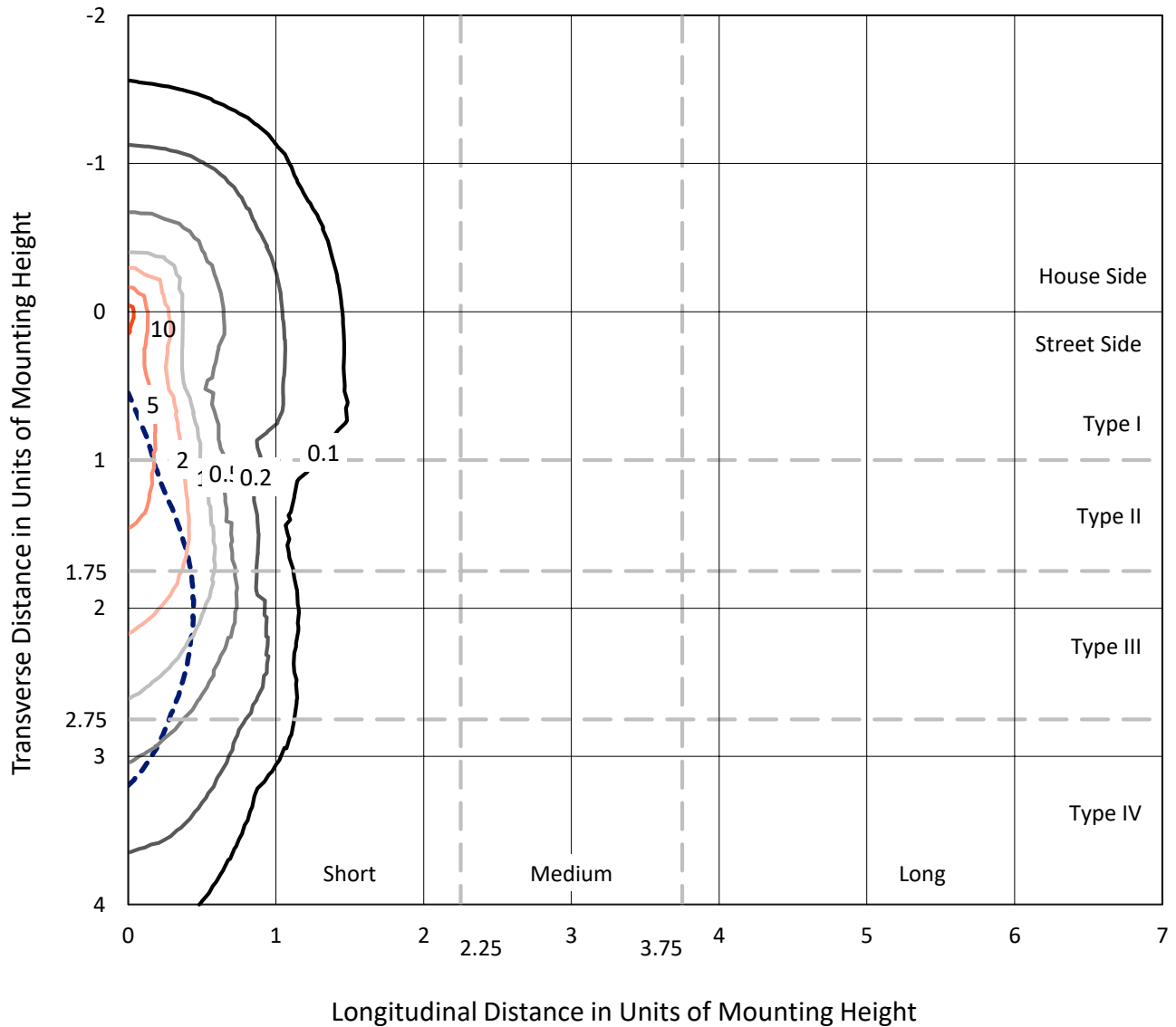


REPORT NUMBER: P269493

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027

### Iso-Footcandle Lines of Horizontal Illumination

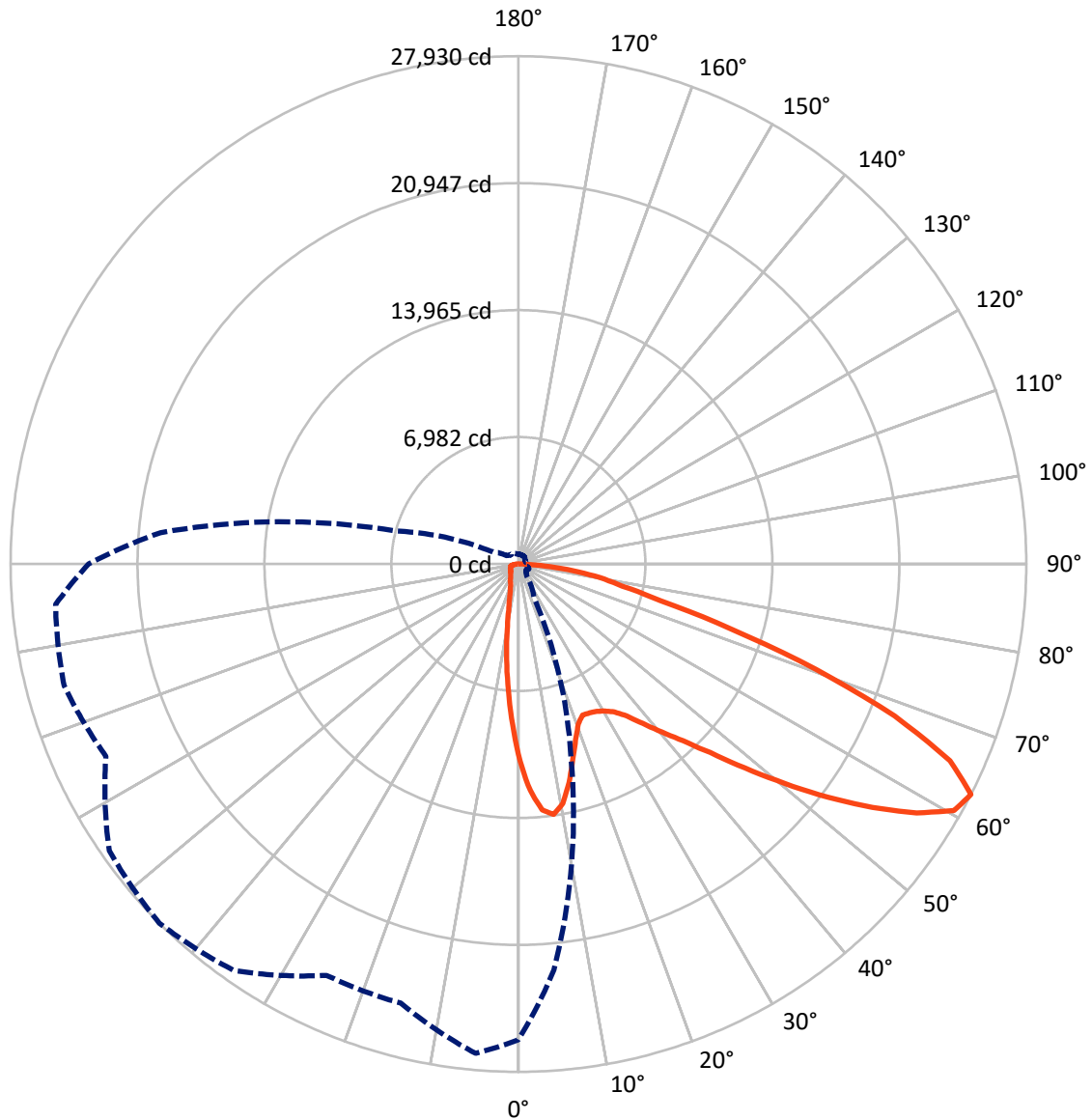
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269493  
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269493

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5319.8	0.0	5319.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	26826.7	0.0	26826.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	32146.5	0.0	32146.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	790.6	2.5
10°-20°	1449.8	4.5
20°-30°	2113.8	6.6
30°-40°	3255.5	10.1
40°-50°	4791.3	14.9
50°-60°	7027.8	21.9
60°-70°	7856.0	24.4
70°-80°	3846.2	12.0
80°-90°	1015.5	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°	32146.5	100.0
0°-180°	32146.5	100.0



REPORT NUMBER: P269493

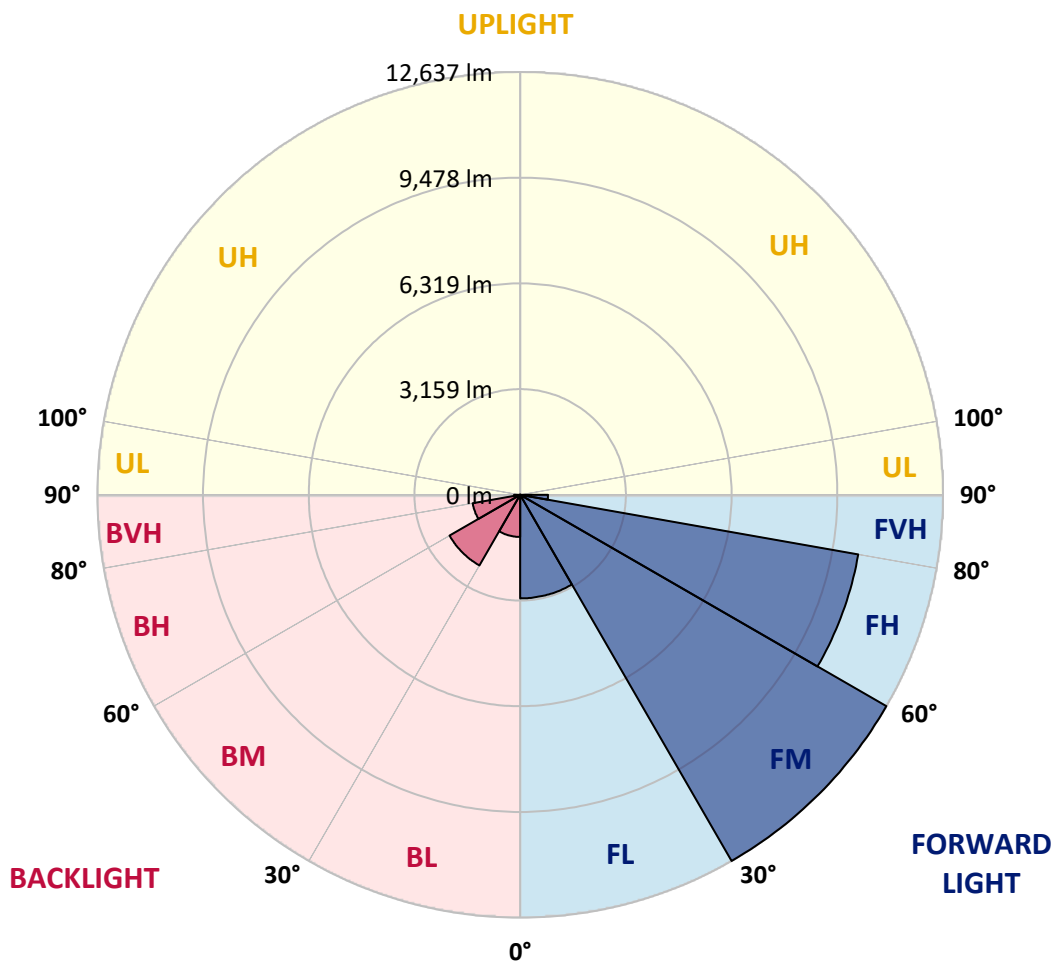
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3095.6	9.6			
FM	(30°-60°)	12637.1	39.3			
FH	(60°-80°)	10260.0	31.9			G4/12000
FVH	(80°-90°)	834.0	2.6			G5
BL	(0°-30°)	1258.6	3.9	B3/2500		
BM	(30°-60°)	2437.5	7.6	B2/2500		
BH	(60°-80°)	1442.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	181.5	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





REPORT NUMBER: P269493

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8
2.5°	11284.9	11055.3	10673.5	10275.9	10033.8	9751.0	9530.2	9335.7	8946.9	8871.0	8939.9
5°	10611.7	10150.4	9431.1	8706.6	8224.3	7706.5	7303.6	6980.2	6487.1	6400.6	6504.8
7.5°	9531.9	8980.5	8029.9	7105.7	6423.5	5776.8	5342.0	4995.7	4610.5	4444.4	4455.0
10°	8600.6	7978.7	6854.6	5849.3	5290.7	4854.4	4488.6	4133.3	3742.8	3486.5	3415.9
12.5°	8079.4	7363.6	6068.3	5170.6	4653.0	4193.4	3799.3	3419.4	3002.3	2740.8	2666.6
15°	7989.3	7211.7	5773.2	4736.0	4087.4	3505.9	3041.2	2617.1	2187.7	1975.6	1931.4
17.5°	8379.7	7483.8	5677.7	4349.0	3555.5	2838.0	2267.2	1793.6	1443.8	1337.8	1329.0
20°	9129.0	8007.0	5665.4	3984.9	3030.6	2189.4	1579.8	1235.2	1081.5	1051.5	1053.3
22.5°	10180.4	8818.0	5817.5	3711.0	2548.2	1632.8	1187.5	1033.8	973.8	945.5	945.5
25°	11541.2	9934.9	6167.4	3511.2	2129.4	1304.2	1048.0	956.1	899.5	880.0	883.6
27.5°	12859.4	11021.7	6573.7	3354.0	1855.4	1184.0	993.2	910.1	860.5	841.2	849.9
30°	13887.8	11986.4	6913.0	3140.1	1715.9	1150.4	1012.6	927.8	857.1	827.0	828.7
32.5°	14739.7	12831.2	7197.5	2986.4	1592.2	986.1	873.0	835.9	827.0	791.6	774.0
35°	15828.2	13751.9	7388.4	2990.0	1533.9	880.0	777.6	712.1	664.4	623.9	623.9
37.5°	17104.1	14808.6	7591.5	3030.6	1512.7	818.1	743.9	678.6	634.5	595.5	588.5
40°	18365.8	15844.1	7777.2	3069.5	1500.3	781.0	717.4	657.4	616.7	577.9	567.3
42.5°	19438.5	16695.9	7943.3	3088.9	1457.9	777.6	698.1	643.2	604.4	562.0	551.3
45°	20231.9	17409.8	8121.8	3118.9	1415.5	791.6	698.1	641.5	593.8	553.0	542.4
47.5°	20940.5	18247.5	8420.4	3118.9	1364.3	765.1	721.0	643.2	592.1	549.6	540.7
50°	21889.4	19396.1	8985.8	3046.5	1291.8	736.9	759.8	636.2	576.2	542.4	531.8
52.5°	23197.2	20868.0	9883.6	2921.1	1180.5	682.2	754.5	632.6	560.3	524.8	512.5
55°	24743.5	22444.4	10862.6	2774.3	1014.4	643.2	728.0	623.9	542.4	503.6	491.3
57.5°	25950.3	23529.3	11551.8	2548.2	869.4	622.0	645.1	615.0	521.2	480.7	470.1
60°	26431.0	23486.9	11740.8	2246.0	798.8	604.4	563.7	689.2	503.6	462.9	450.6
62.5°	26171.3	22401.9	11210.7	2033.9	782.9	581.5	528.4	637.9	489.4	450.6	433.0
65°	24971.4	20479.3	9805.8	1977.3	828.7	558.4	505.3	500.0	470.1	433.0	415.2
67.5°	22357.7	17605.9	7851.4	1982.6	887.0	535.4	482.4	457.6	443.6	413.5	397.6
70°	18210.4	13919.7	5852.7	1996.8	917.1	508.9	457.6	431.1	415.2	385.3	374.7
72.5°	13389.5	10728.3	4251.7	1904.9	922.4	478.8	424.1	401.2	385.3	353.5	344.6
75°	9160.8	8206.6	2949.3	1578.1	804.1	436.4	387.0	365.8	355.2	316.4	311.1
77.5°	6692.2	6160.2	1887.2	1171.6	620.3	383.4	341.0	325.1	318.1	275.7	268.7
80°	5370.2	4873.8	1180.5	802.2	454.2	321.7	286.3	277.4	270.4	228.0	222.7
82.5°	3725.1	3263.9	758.1	521.2	341.0	249.2	226.3	222.7	212.1	173.2	167.9
85°	1965.0	1772.4	480.7	355.2	247.5	171.3	157.3	157.3	152.0	114.9	111.3
87.5°	250.9	408.2	243.9	185.6	136.1	75.9	75.9	74.2	79.5	65.3	56.6
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: P269493

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8
2.5°	8777.3	8862.1	8780.9	8786.2	8876.3	9144.9	9266.8	9367.5	9475.4	9546.1	9577.9
5°	6361.6	6559.7	6626.7	6768.1	6976.6	7319.5	7455.6	7554.4	7620.0	7658.8	7674.7
7.5°	4350.8	4470.9	4605.2	4833.2	5287.2	5488.7	5578.8	5555.8	5481.6	5455.1	5428.6
10°	3279.8	3232.1	3207.4	3332.8	3700.4	3903.7	3967.3	3905.4	3864.7	3873.5	3917.8
12.5°	2541.1	2458.1	2357.3	2343.1	2585.3	2767.3	2808.0	2811.5	2885.7	2951.1	3048.3
15°	1851.9	1843.1	1793.6	1763.6	1901.4	2049.9	2067.5	2099.3	2166.5	2214.2	2299.0
17.5°	1306.0	1353.7	1392.6	1412.0	1516.2	1622.2	1602.8	1586.9	1574.5	1574.5	1615.2
20°	1053.3	1085.1	1134.5	1191.1	1297.1	1371.4	1323.7	1260.0	1214.0	1199.9	1205.2
22.5°	949.0	973.8	1002.0	1051.5	1146.9	1198.1	1146.9	1101.0	1055.0	1039.1	1033.8
25°	895.9	927.8	954.3	991.4	1062.1	1097.4	1048.0	1014.4	986.1	966.7	952.6
27.5°	865.8	894.2	901.2	918.8	979.1	1010.9	986.1	972.0	954.3	936.7	918.8
30°	834.0	828.7	816.4	818.1	865.8	897.6	895.9	899.5	897.6	892.3	888.9
32.5°	761.7	751.1	740.5	751.1	795.2	823.4	825.3	832.3	832.3	830.6	844.6
35°	634.5	653.8	666.3	698.1	751.1	775.7	765.1	747.5	715.7	696.2	694.5
37.5°	586.8	590.2	611.4	655.7	714.0	736.9	721.0	680.3	659.1	655.7	661.0
40°	563.7	567.3	579.6	620.3	678.6	701.5	687.5	657.4	637.9	636.2	645.1
42.5°	547.7	551.3	558.4	586.8	634.5	662.7	664.4	643.2	620.3	622.0	630.9
45°	539.0	540.7	539.0	553.0	597.4	630.9	645.1	630.9	611.4	615.0	625.6
47.5°	537.1	531.8	524.8	528.4	574.3	608.0	625.6	620.3	611.4	615.0	623.9
50°	530.1	517.8	508.9	507.2	553.0	588.5	604.4	604.4	608.0	615.0	623.9
52.5°	508.9	494.7	494.7	489.4	539.0	572.6	583.2	584.9	590.2	602.7	615.0
55°	482.4	477.1	482.4	473.5	528.4	560.3	565.6	569.0	572.6	583.2	600.8
57.5°	459.5	452.3	464.8	461.2	519.5	547.7	547.7	554.9	554.9	569.0	583.2
60°	447.0	433.0	438.3	441.7	507.2	537.1	533.7	540.7	544.3	556.7	567.3
62.5°	431.1	418.8	418.8	427.7	493.0	521.2	519.5	524.8	539.0	542.4	553.0
65°	411.8	406.5	401.2	411.8	478.8	503.6	505.3	512.5	524.8	528.4	537.1
67.5°	392.3	394.0	383.4	394.0	466.5	486.0	486.0	500.0	505.3	512.5	521.2
70°	371.1	372.8	364.1	376.4	457.6	466.5	464.8	484.1	487.7	493.0	501.9
72.5°	344.6	344.6	341.0	358.8	443.6	447.0	443.6	459.5	461.2	466.5	470.1
75°	316.4	316.4	312.8	337.6	434.7	425.8	415.2	427.7	431.1	434.7	434.7
77.5°	279.3	282.7	282.7	312.8	404.6	417.1	381.7	388.7	394.0	395.9	390.6
80°	233.3	242.2	245.6	284.6	339.3	385.3	341.0	346.3	348.2	348.2	341.0
82.5°	178.5	194.5	203.2	245.6	259.8	323.4	296.9	302.2	296.9	286.3	282.7
85°	123.6	144.8	155.4	187.3	196.2	249.2	247.5	247.5	236.9	222.7	221.0
87.5°	67.2	79.5	86.5	111.3	134.2	167.9	181.9	176.6	167.9	159.0	160.7
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: P269493

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8
2.5°	9743.9	9984.3	10367.8	10661.2	10956.3	11240.8	11548.3	11783.2	11982.9	12060.7	12297.4
5°	7835.5	8135.9	8498.1	9152.0	9615.0	10125.6	10715.9	11497.0	11797.4	12212.6	12893.1
7.5°	5539.9	5812.2	6395.3	6923.6	7579.2	8302.0	9099.0	10176.9	10571.0	11237.2	12345.1
10°	4136.9	4453.2	4921.5	5366.7	5944.7	6683.3	7598.7	8803.8	9282.7	10005.5	11281.4
12.5°	3332.8	3705.7	4202.2	4621.1	5068.1	5589.4	6478.2	7800.2	8441.6	9074.1	10364.3
15°	2560.6	2951.1	3412.3	3944.3	4437.3	4999.2	5930.5	7376.1	8114.7	8773.8	9874.8
17.5°	1772.4	2106.4	2687.8	3242.7	3873.5	4592.8	5778.5	7466.2	8347.9	9107.8	9959.6
20°	1256.4	1447.3	1924.3	2567.6	3354.0	4257.0	5750.3	7939.7	9086.5	9954.3	10503.8
22.5°	1056.8	1127.5	1404.9	1995.0	2903.4	4006.1	5849.3	8604.1	10083.3	11191.3	11371.6
25°	963.2	1005.6	1150.4	1565.7	2502.3	3824.1	6183.3	9593.8	11316.8	12428.3	12396.4
27.5°	911.8	956.1	1051.5	1321.9	2200.0	3711.0	6517.3	10767.2	12726.8	13771.2	13375.5
30°	895.9	956.1	1056.8	1245.8	1984.4	3532.6	6791.0	11797.4	13811.9	14677.9	13820.8
32.5°	883.6	892.3	938.4	1074.5	1779.5	3324.0	6976.6	12721.5	14874.0	15540.1	14462.3
35°	714.0	758.1	832.3	963.2	1659.3	3198.5	6976.6	13518.6	15920.1	16411.3	15073.6
37.5°	687.5	726.3	791.6	902.9	1592.2	3136.6	6837.0	14287.4	16989.3	17399.2	15577.2
40°	673.3	705.1	767.0	857.1	1563.9	3065.9	6633.9	14965.9	18033.7	18388.8	16047.3
42.5°	662.7	690.9	749.2	828.7	1526.8	2988.2	6469.5	15510.1	18940.1	19233.5	16496.1
45°	657.4	687.5	751.1	842.9	1452.6	2885.7	6414.6	16098.5	19685.8	19938.6	16982.2
47.5°	657.4	692.8	759.8	873.0	1364.3	2779.6	6586.2	16874.3	20390.9	20514.7	17554.7
50°	652.1	690.9	784.6	842.9	1235.2	2645.4	6989.1	17851.6	21154.4	21168.5	18279.3
52.5°	641.5	687.5	844.6	825.3	1086.8	2468.7	7533.2	19106.3	22283.5	22368.3	19413.7
55°	629.2	682.2	828.7	784.6	964.9	2258.3	7978.7	20631.4	23870.4	24105.5	21082.0
57.5°	613.3	675.0	802.2	728.0	885.3	1987.9	8139.5	21748.1	24978.5	25568.6	22962.1
60°	599.1	669.7	724.6	694.5	835.9	1760.0	7828.4	21527.3	24902.5	26174.9	24628.6
62.5°	584.9	675.0	661.0	673.3	812.8	1613.4	7015.6	19758.3	23642.5	25549.2	25863.8
65°	569.0	627.3	623.9	655.7	807.5	1555.1	5815.6	17105.9	21207.4	23571.9	26155.4
67.5°	547.7	579.6	597.4	632.6	825.3	1503.9	4693.6	14110.5	17823.4	20608.3	24635.6
70°	524.8	551.3	570.9	604.4	814.7	1480.9	3903.7	11127.7	14142.3	16890.3	21636.8
72.5°	494.7	517.8	535.4	567.3	804.1	1468.5	3297.5	8961.1	10558.6	12546.6	17591.8
75°	459.5	480.7	493.0	524.8	770.4	1344.9	2592.4	7582.8	7900.9	8727.9	14011.7
77.5°	418.8	434.7	445.3	480.7	682.2	1118.6	1874.9	5849.3	6135.6	6337.0	10742.4
80°	371.1	387.0	392.3	425.8	565.6	874.7	1222.9	4320.7	4589.3	4635.2	7015.6
82.5°	316.4	332.3	332.3	364.1	462.9	629.2	802.2	2959.9	3012.9	3168.5	4958.6
85°	254.5	266.8	266.8	282.7	358.8	470.1	551.3	1486.2	1470.3	1678.8	4296.0
87.5°	181.9	190.9	199.8	203.2	256.2	311.1	332.3	452.3	298.6	342.9	2758.4
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: P269493

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8	10860.8
2.5°	12476.0	12576.7	12474.3	12399.9	12080.1	11816.8	11465.2	11284.9
5°	13410.7	13667.1	13580.4	13269.5	12601.5	11850.4	10997.0	10611.7
7.5°	13297.7	13893.1	13907.3	13325.9	12341.6	11235.5	10079.7	9531.9
10°	12417.6	13179.4	13396.7	12832.9	11788.5	10551.5	9226.2	8600.6
12.5°	11435.2	12180.8	12346.9	12152.6	11279.6	10037.3	8692.4	8079.4
15°	10631.1	10965.2	11163.0	11332.7	10843.1	9832.4	8662.4	7989.3
17.5°	10141.5	10104.5	10161.0	10456.1	10539.2	10067.3	9122.0	8379.7
20°	9964.9	9397.6	9383.4	9789.9	10396.1	10627.6	10019.6	9129.0
22.5°	10062.0	9143.2	9026.4	9509.0	10472.0	11435.2	11196.6	10180.4
25°	10397.8	9164.4	9070.6	9537.2	10747.7	12295.7	12467.1	11541.2
27.5°	10926.2	9298.6	9175.0	9653.8	11113.6	13018.4	13718.2	12859.4
30°	11428.1	9531.9	9378.1	9883.6	11447.6	13304.7	14485.2	13887.8
32.5°	12037.6	9968.4	9698.0	10306.0	11861.0	13760.6	15169.0	14739.7
35°	12635.0	10590.5	10254.7	10958.1	12322.2	14328.0	15950.1	15828.2
37.5°	13290.7	11403.4	11125.9	11800.9	12953.1	14863.4	16946.9	17104.1
40°	13990.5	12481.3	12152.6	13030.9	13932.2	15534.8	17987.7	18365.8
42.5°	14695.6	13677.7	13285.4	14176.0	15008.3	16197.6	18878.3	19438.5
45°	15503.0	14976.5	14791.0	15753.9	16042.0	16828.4	19535.7	20231.9
47.5°	16443.1	16450.2	16748.9	17134.1	17084.7	17542.3	20196.6	20940.5
50°	17540.6	18289.9	18948.9	19205.3	18159.1	18309.3	21113.8	21889.4
52.5°	18858.8	20489.9	21306.3	21138.5	19316.6	19245.8	22566.3	23197.2
55°	20507.5	22819.0	23630.2	23509.9	20647.3	20521.7	24375.9	24743.5
57.5°	22416.0	25075.6	25821.4	25280.6	22244.6	21921.2	25872.7	25950.3
60°	24093.1	26864.0	27517.8	26918.8	23856.3	23411.0	26807.4	26431.0
62.5°	25026.2	27470.1	27929.6	27284.6	24960.8	24997.9	27012.5	26171.3
65°	24609.1	25938.0	26086.4	26033.4	24676.4	25918.5	26275.6	24971.4
67.5°	22325.9	22064.3	22313.5	22658.2	22237.6	24706.4	24234.5	22357.7
70°	18304.0	16867.3	17363.9	17595.3	17786.3	21260.4	21034.3	18210.4
72.5°	13794.3	11816.8	12209.1	12161.4	13044.9	17052.9	16358.3	13389.5
75°	9774.0	8012.3	8061.7	8042.3	9102.5	13341.8	11845.1	9160.8
77.5°	6838.7	5805.0	5831.5	5941.1	6119.6	10062.0	8462.8	6692.2
80°	4702.4	4405.5	4552.2	4561.0	4241.1	6759.2	6252.2	5370.2
82.5°	3502.4	3062.4	3027.1	3078.3	3324.0	5476.3	4804.9	3725.1
85°	2868.1	1813.0	1457.9	1827.2	2945.8	5423.3	3191.5	1965.0
87.5°	1615.2	860.5	388.7	721.0	1175.2	3590.9	922.4	250.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)