

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: P269489

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269489  
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-SLL-7027  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 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

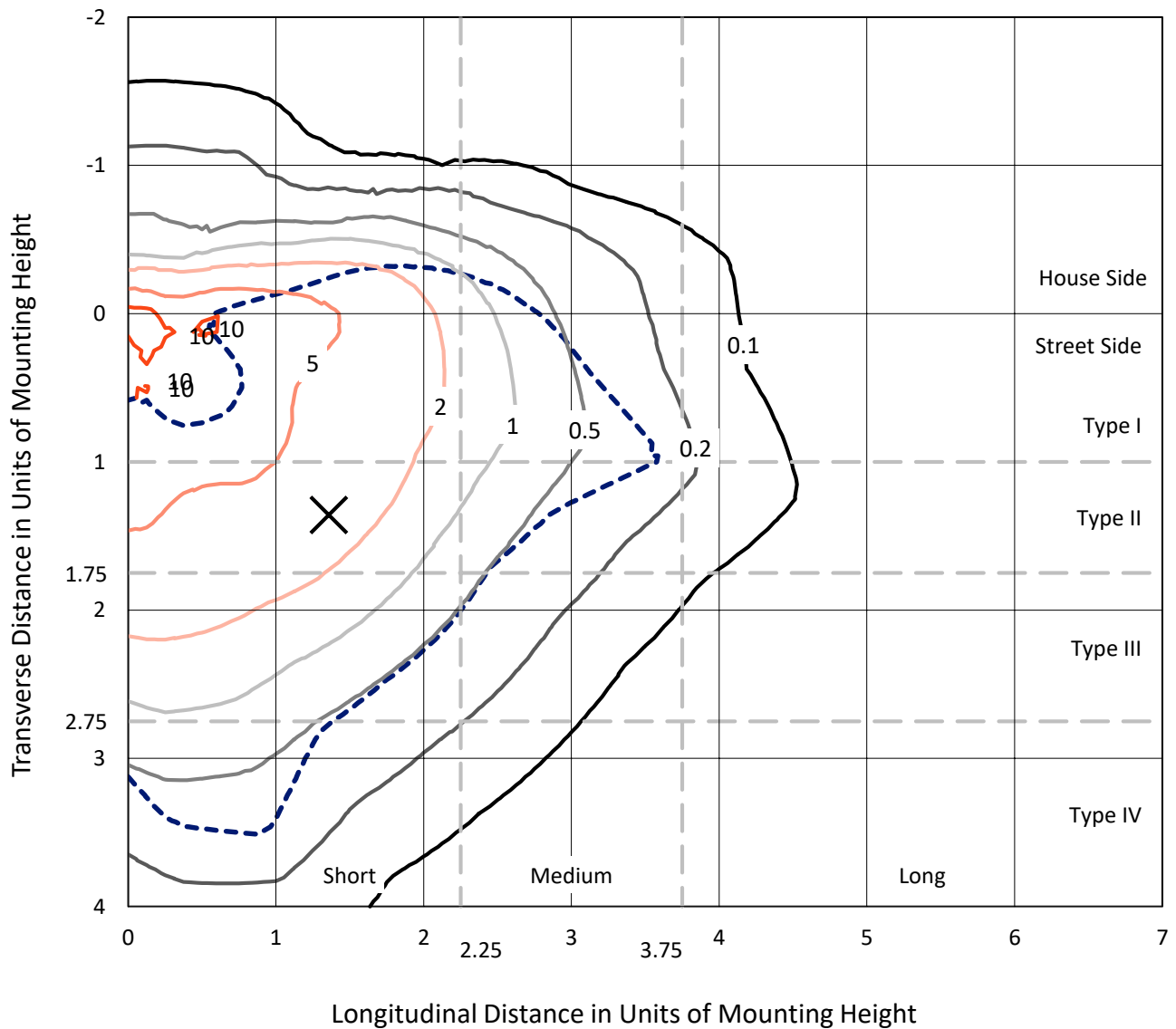


REPORT NUMBER: P269489

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

### Iso-Footcandle Lines of Horizontal Illumination

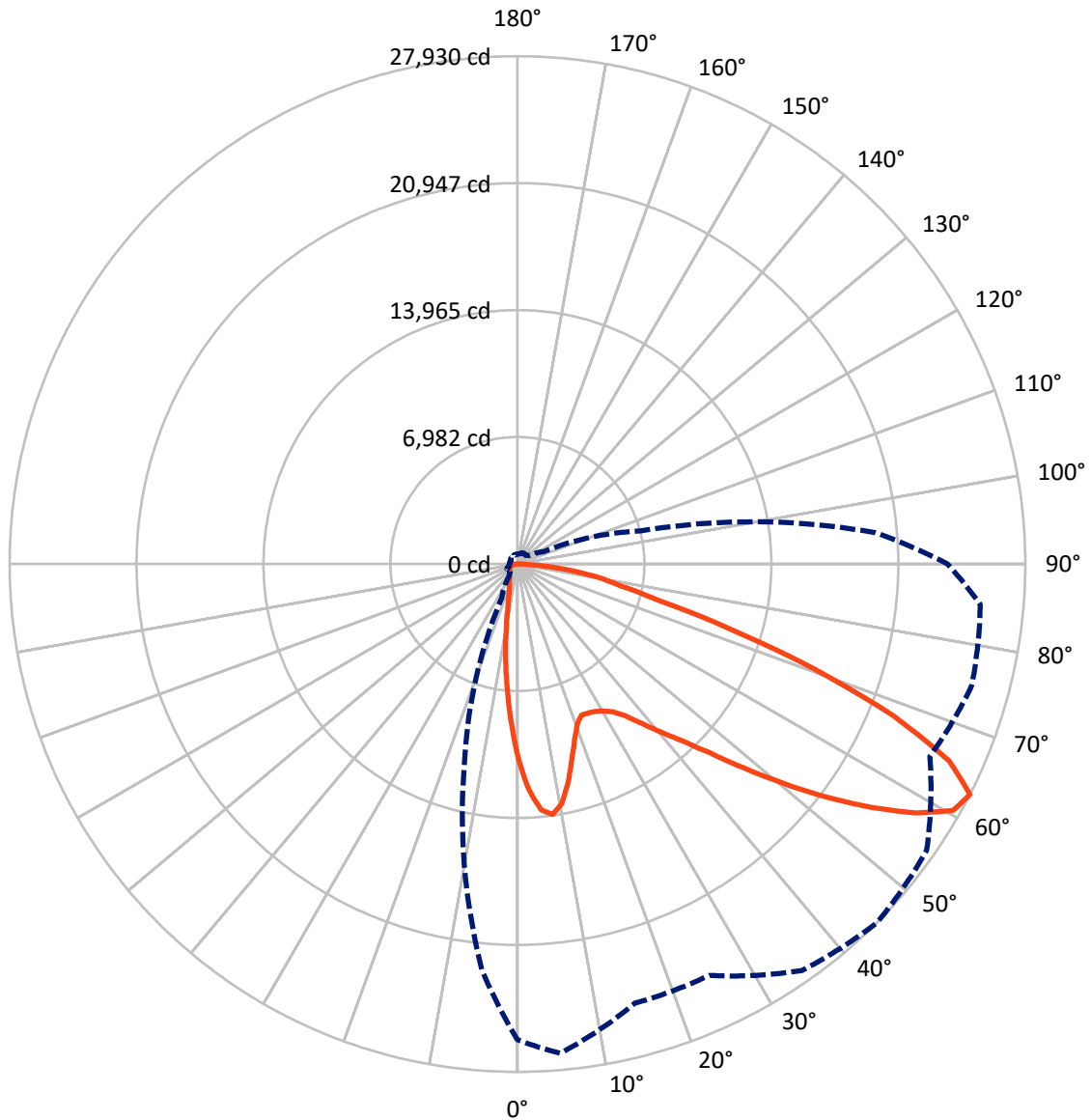
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P269489  
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7027

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269489

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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: P269489

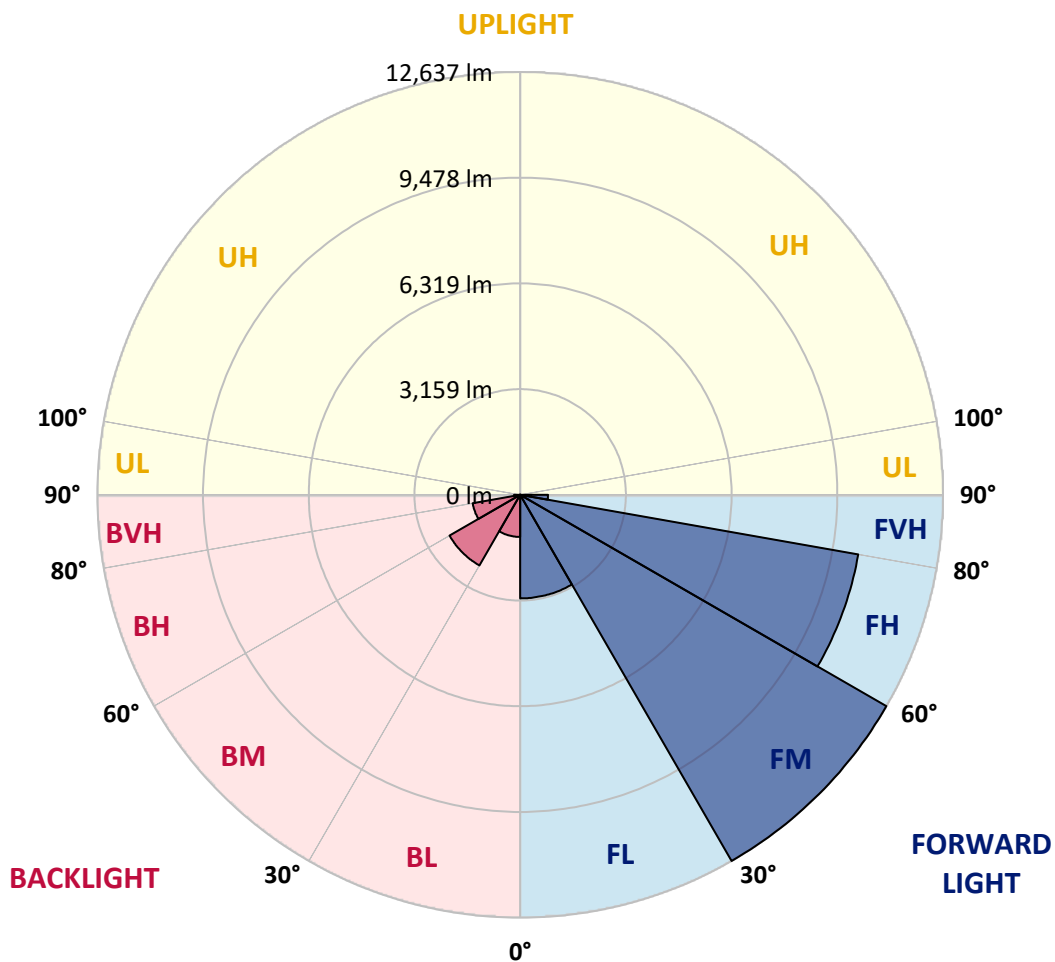
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7027

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	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: P269489

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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	11465.2	11816.8	12080.1	12399.9	12474.3	12576.7	12476.0	12297.4	12060.7	11982.9
5°	10611.7	10997.0	11850.4	12601.5	13269.5	13580.4	13667.1	13410.7	12893.1	12212.6	11797.4
7.5°	9531.9	10079.7	11235.5	12341.6	13325.9	13907.3	13893.1	13297.7	12345.1	11237.2	10571.0
10°	8600.6	9226.2	10551.5	11788.5	12832.9	13396.7	13179.4	12417.6	11281.4	10005.5	9282.7
12.5°	8079.4	8692.4	10037.3	11279.6	12152.6	12346.9	12180.8	11435.2	10364.3	9074.1	8441.6
15°	7989.3	8662.4	9832.4	10843.1	11332.7	11163.0	10965.2	10631.1	9874.8	8773.8	8114.7
17.5°	8379.7	9122.0	10067.3	10539.2	10456.1	10161.0	10104.5	10141.5	9959.6	9107.8	8347.9
20°	9129.0	10019.6	10627.6	10396.1	9789.9	9383.4	9397.6	9964.9	10503.8	9954.3	9086.5
22.5°	10180.4	11196.6	11435.2	10472.0	9509.0	9026.4	9143.2	10062.0	11371.6	11191.3	10083.3
25°	11541.2	12467.1	12295.7	10747.7	9537.2	9070.6	9164.4	10397.8	12396.4	12428.3	11316.8
27.5°	12859.4	13718.2	13018.4	11113.6	9653.8	9175.0	9298.6	10926.2	13375.5	13771.2	12726.8
30°	13887.8	14485.2	13304.7	11447.6	9883.6	9378.1	9531.9	11428.1	13820.8	14677.9	13811.9
32.5°	14739.7	15169.0	13760.6	11861.0	10306.0	9698.0	9968.4	12037.6	14462.3	15540.1	14874.0
35°	15828.2	15950.1	14328.0	12322.2	10958.1	10254.7	10590.5	12635.0	15073.6	16411.3	15920.1
37.5°	17104.1	16946.9	14863.4	12953.1	11800.9	11125.9	11403.4	13290.7	15577.2	17399.2	16989.3
40°	18365.8	17987.7	15534.8	13932.2	13030.9	12152.6	12481.3	13990.5	16047.3	18388.8	18033.7
42.5°	19438.5	18878.3	16197.6	15008.3	14176.0	13285.4	13677.7	14695.6	16496.1	19233.5	18940.1
45°	20231.9	19535.7	16828.4	16042.0	15753.9	14791.0	14976.5	15503.0	16982.2	19938.6	19685.8
47.5°	20940.5	20196.6	17542.3	17084.7	17134.1	16748.9	16450.2	16443.1	17554.7	20514.7	20390.9
50°	21889.4	21113.8	18309.3	18159.1	19205.3	18948.9	18289.9	17540.6	18279.3	21168.5	21154.4
52.5°	23197.2	22566.3	19245.8	19316.6	21138.5	21306.3	20489.9	18858.8	19413.7	22368.3	22283.5
55°	24743.5	24375.9	20521.7	20647.3	23509.9	23630.2	22819.0	20507.5	21082.0	24105.5	23870.4
57.5°	25950.3	25872.7	21921.2	22244.6	25280.6	25821.4	25075.6	22416.0	22962.1	25568.6	24978.5
60°	26431.0	26807.4	23411.0	23856.3	26918.8	27517.8	26864.0	24093.1	24628.6	26174.9	24902.5
62.5°	26171.3	27012.5	24997.9	24960.8	27284.6	27929.6	27470.1	25026.2	25863.8	25549.2	23642.5
65°	24971.4	26275.6	25918.5	24676.4	26033.4	26086.4	25938.0	24609.1	26155.4	23571.9	21207.4
67.5°	22357.7	24234.5	24706.4	22237.6	22658.2	22313.5	22064.3	22325.9	24635.6	20608.3	17823.4
70°	18210.4	21034.3	21260.4	17786.3	17595.3	17363.9	16867.3	18304.0	21636.8	16890.3	14142.3
72.5°	13389.5	16358.3	17052.9	13044.9	12161.4	12209.1	11816.8	13794.3	17591.8	12546.6	10558.6
75°	9160.8	11845.1	13341.8	9102.5	8042.3	8061.7	8012.3	9774.0	14011.7	8727.9	7900.9
77.5°	6692.2	8462.8	10062.0	6119.6	5941.1	5831.5	5805.0	6838.7	10742.4	6337.0	6135.6
80°	5370.2	6252.2	6759.2	4241.1	4561.0	4552.2	4405.5	4702.4	7015.6	4635.2	4589.3
82.5°	3725.1	4804.9	5476.3	3324.0	3078.3	3027.1	3062.4	3502.4	4958.6	3168.5	3012.9
85°	1965.0	3191.5	5423.3	2945.8	1827.2	1457.9	1813.0	2868.1	4296.0	1678.8	1470.3
87.5°	250.9	922.4	3590.9	1175.2	721.0	388.7	860.5	1615.2	2758.4	342.9	298.6
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: P269489

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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°	11783.2	11548.3	11240.8	10956.3	10661.2	10367.8	9984.3	9743.9	9577.9	9546.1	9475.4
5°	11497.0	10715.9	10125.6	9615.0	9152.0	8498.1	8135.9	7835.5	7674.7	7658.8	7620.0
7.5°	10176.9	9099.0	8302.0	7579.2	6923.6	6395.3	5812.2	5539.9	5428.6	5455.1	5481.6
10°	8803.8	7598.7	6683.3	5944.7	5366.7	4921.5	4453.2	4136.9	3917.8	3873.5	3864.7
12.5°	7800.2	6478.2	5589.4	5068.1	4621.1	4202.2	3705.7	3332.8	3048.3	2951.1	2885.7
15°	7376.1	5930.5	4999.2	4437.3	3944.3	3412.3	2951.1	2560.6	2299.0	2214.2	2166.5
17.5°	7466.2	5778.5	4592.8	3873.5	3242.7	2687.8	2106.4	1772.4	1615.2	1574.5	1574.5
20°	7939.7	5750.3	4257.0	3354.0	2567.6	1924.3	1447.3	1256.4	1205.2	1199.9	1214.0
22.5°	8604.1	5849.3	4006.1	2903.4	1995.0	1404.9	1127.5	1056.8	1033.8	1039.1	1055.0
25°	9593.8	6183.3	3824.1	2502.3	1565.7	1150.4	1005.6	963.2	952.6	966.7	986.1
27.5°	10767.2	6517.3	3711.0	2200.0	1321.9	1051.5	956.1	911.8	918.8	936.7	954.3
30°	11797.4	6791.0	3532.6	1984.4	1245.8	1056.8	956.1	895.9	888.9	892.3	897.6
32.5°	12721.5	6976.6	3324.0	1779.5	1074.5	938.4	892.3	883.6	844.6	830.6	832.3
35°	13518.6	6976.6	3198.5	1659.3	963.2	832.3	758.1	714.0	694.5	696.2	715.7
37.5°	14287.4	6837.0	3136.6	1592.2	902.9	791.6	726.3	687.5	661.0	655.7	659.1
40°	14965.9	6633.9	3065.9	1563.9	857.1	767.0	705.1	673.3	645.1	636.2	637.9
42.5°	15510.1	6469.5	2988.2	1526.8	828.7	749.2	690.9	662.7	630.9	622.0	620.3
45°	16098.5	6414.6	2885.7	1452.6	842.9	751.1	687.5	657.4	625.6	615.0	611.4
47.5°	16874.3	6586.2	2779.6	1364.3	873.0	759.8	692.8	657.4	623.9	615.0	611.4
50°	17851.6	6989.1	2645.4	1235.2	842.9	784.6	690.9	652.1	623.9	615.0	608.0
52.5°	19106.3	7533.2	2468.7	1086.8	825.3	844.6	687.5	641.5	615.0	602.7	590.2
55°	20631.4	7978.7	2258.3	964.9	784.6	828.7	682.2	629.2	600.8	583.2	572.6
57.5°	21748.1	8139.5	1987.9	885.3	728.0	802.2	675.0	613.3	583.2	569.0	554.9
60°	21527.3	7828.4	1760.0	835.9	694.5	724.6	669.7	599.1	567.3	556.7	544.3
62.5°	19758.3	7015.6	1613.4	812.8	673.3	661.0	675.0	584.9	553.0	542.4	539.0
65°	17105.9	5815.6	1555.1	807.5	655.7	623.9	627.3	569.0	537.1	528.4	524.8
67.5°	14110.5	4693.6	1503.9	825.3	632.6	597.4	579.6	547.7	521.2	512.5	505.3
70°	11127.7	3903.7	1480.9	814.7	604.4	570.9	551.3	524.8	501.9	493.0	487.7
72.5°	8961.1	3297.5	1468.5	804.1	567.3	535.4	517.8	494.7	470.1	466.5	461.2
75°	7582.8	2592.4	1344.9	770.4	524.8	493.0	480.7	459.5	434.7	434.7	431.1
77.5°	5849.3	1874.9	1118.6	682.2	480.7	445.3	434.7	418.8	390.6	395.9	394.0
80°	4320.7	1222.9	874.7	565.6	425.8	392.3	387.0	371.1	341.0	348.2	348.2
82.5°	2959.9	802.2	629.2	462.9	364.1	332.3	332.3	316.4	282.7	286.3	296.9
85°	1486.2	551.3	470.1	358.8	282.7	266.8	266.8	254.5	221.0	222.7	236.9
87.5°	452.3	332.3	311.1	256.2	203.2	199.8	190.9	181.9	160.7	159.0	167.9
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: P269489

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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°	9367.5	9266.8	9144.9	8876.3	8786.2	8780.9	8862.1	8777.3	8939.9	8871.0	8946.9
5°	7554.4	7455.6	7319.5	6976.6	6768.1	6626.7	6559.7	6361.6	6504.8	6400.6	6487.1
7.5°	5555.8	5578.8	5488.7	5287.2	4833.2	4605.2	4470.9	4350.8	4455.0	4444.4	4610.5
10°	3905.4	3967.3	3903.7	3700.4	3332.8	3207.4	3232.1	3279.8	3415.9	3486.5	3742.8
12.5°	2811.5	2808.0	2767.3	2585.3	2343.1	2357.3	2458.1	2541.1	2666.6	2740.8	3002.3
15°	2099.3	2067.5	2049.9	1901.4	1763.6	1793.6	1843.1	1851.9	1931.4	1975.6	2187.7
17.5°	1586.9	1602.8	1622.2	1516.2	1412.0	1392.6	1353.7	1306.0	1329.0	1337.8	1443.8
20°	1260.0	1323.7	1371.4	1297.1	1191.1	1134.5	1085.1	1053.3	1053.3	1051.5	1081.5
22.5°	1101.0	1146.9	1198.1	1146.9	1051.5	1002.0	973.8	949.0	945.5	945.5	973.8
25°	1014.4	1048.0	1097.4	1062.1	991.4	954.3	927.8	895.9	883.6	880.0	899.5
27.5°	972.0	986.1	1010.9	979.1	918.8	901.2	894.2	865.8	849.9	841.2	860.5
30°	899.5	895.9	897.6	865.8	818.1	816.4	828.7	834.0	828.7	827.0	857.1
32.5°	832.3	825.3	823.4	795.2	751.1	740.5	751.1	761.7	774.0	791.6	827.0
35°	747.5	765.1	775.7	751.1	698.1	666.3	653.8	634.5	623.9	623.9	664.4
37.5°	680.3	721.0	736.9	714.0	655.7	611.4	590.2	586.8	588.5	595.5	634.5
40°	657.4	687.5	701.5	678.6	620.3	579.6	567.3	563.7	567.3	577.9	616.7
42.5°	643.2	664.4	662.7	634.5	586.8	558.4	551.3	547.7	551.3	562.0	604.4
45°	630.9	645.1	630.9	597.4	553.0	539.0	540.7	539.0	542.4	553.0	593.8
47.5°	620.3	625.6	608.0	574.3	528.4	524.8	531.8	537.1	540.7	549.6	592.1
50°	604.4	604.4	588.5	553.0	507.2	508.9	517.8	530.1	531.8	542.4	576.2
52.5°	584.9	583.2	572.6	539.0	489.4	494.7	494.7	508.9	512.5	524.8	560.3
55°	569.0	565.6	560.3	528.4	473.5	482.4	477.1	482.4	491.3	503.6	542.4
57.5°	554.9	547.7	547.7	519.5	461.2	464.8	452.3	459.5	470.1	480.7	521.2
60°	540.7	533.7	537.1	507.2	441.7	438.3	433.0	447.0	450.6	462.9	503.6
62.5°	524.8	519.5	521.2	493.0	427.7	418.8	418.8	431.1	433.0	450.6	489.4
65°	512.5	505.3	503.6	478.8	411.8	401.2	406.5	411.8	415.2	433.0	470.1
67.5°	500.0	486.0	486.0	466.5	394.0	383.4	394.0	392.3	397.6	413.5	443.6
70°	484.1	464.8	466.5	457.6	376.4	364.1	372.8	371.1	374.7	385.3	415.2
72.5°	459.5	443.6	447.0	443.6	358.8	341.0	344.6	344.6	344.6	353.5	385.3
75°	427.7	415.2	425.8	434.7	337.6	312.8	316.4	316.4	311.1	316.4	355.2
77.5°	388.7	381.7	417.1	404.6	312.8	282.7	282.7	279.3	268.7	275.7	318.1
80°	346.3	341.0	385.3	339.3	284.6	245.6	242.2	233.3	222.7	228.0	270.4
82.5°	302.2	296.9	323.4	259.8	245.6	203.2	194.5	178.5	167.9	173.2	212.1
85°	247.5	247.5	249.2	196.2	187.3	155.4	144.8	123.6	111.3	114.9	152.0
87.5°	176.6	181.9	167.9	134.2	111.3	86.5	79.5	67.2	56.6	65.3	79.5
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: P269489

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-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°	9335.7	9530.2	9751.0	10033.8	10275.9	10673.5	11055.3	11284.9
5°	6980.2	7303.6	7706.5	8224.3	8706.6	9431.1	10150.4	10611.7
7.5°	4995.7	5342.0	5776.8	6423.5	7105.7	8029.9	8980.5	9531.9
10°	4133.3	4488.6	4854.4	5290.7	5849.3	6854.6	7978.7	8600.6
12.5°	3419.4	3799.3	4193.4	4653.0	5170.6	6068.3	7363.6	8079.4
15°	2617.1	3041.2	3505.9	4087.4	4736.0	5773.2	7211.7	7989.3
17.5°	1793.6	2267.2	2838.0	3555.5	4349.0	5677.7	7483.8	8379.7
20°	1235.2	1579.8	2189.4	3030.6	3984.9	5665.4	8007.0	9129.0
22.5°	1033.8	1187.5	1632.8	2548.2	3711.0	5817.5	8818.0	10180.4
25°	956.1	1048.0	1304.2	2129.4	3511.2	6167.4	9934.9	11541.2
27.5°	910.1	993.2	1184.0	1855.4	3354.0	6573.7	11021.7	12859.4
30°	927.8	1012.6	1150.4	1715.9	3140.1	6913.0	11986.4	13887.8
32.5°	835.9	873.0	986.1	1592.2	2986.4	7197.5	12831.2	14739.7
35°	712.1	777.6	880.0	1533.9	2990.0	7388.4	13751.9	15828.2
37.5°	678.6	743.9	818.1	1512.7	3030.6	7591.5	14808.6	17104.1
40°	657.4	717.4	781.0	1500.3	3069.5	7777.2	15844.1	18365.8
42.5°	643.2	698.1	777.6	1457.9	3088.9	7943.3	16695.9	19438.5
45°	641.5	698.1	791.6	1415.5	3118.9	8121.8	17409.8	20231.9
47.5°	643.2	721.0	765.1	1364.3	3118.9	8420.4	18247.5	20940.5
50°	636.2	759.8	736.9	1291.8	3046.5	8985.8	19396.1	21889.4
52.5°	632.6	754.5	682.2	1180.5	2921.1	9883.6	20868.0	23197.2
55°	623.9	728.0	643.2	1014.4	2774.3	10862.6	22444.4	24743.5
57.5°	615.0	645.1	622.0	869.4	2548.2	11551.8	23529.3	25950.3
60°	689.2	563.7	604.4	798.8	2246.0	11740.8	23486.9	26431.0
62.5°	637.9	528.4	581.5	782.9	2033.9	11210.7	22401.9	26171.3
65°	500.0	505.3	558.4	828.7	1977.3	9805.8	20479.3	24971.4
67.5°	457.6	482.4	535.4	887.0	1982.6	7851.4	17605.9	22357.7
70°	431.1	457.6	508.9	917.1	1996.8	5852.7	13919.7	18210.4
72.5°	401.2	424.1	478.8	922.4	1904.9	4251.7	10728.3	13389.5
75°	365.8	387.0	436.4	804.1	1578.1	2949.3	8206.6	9160.8
77.5°	325.1	341.0	383.4	620.3	1171.6	1887.2	6160.2	6692.2
80°	277.4	286.3	321.7	454.2	802.2	1180.5	4873.8	5370.2
82.5°	222.7	226.3	249.2	341.0	521.2	758.1	3263.9	3725.1
85°	157.3	157.3	171.3	247.5	355.2	480.7	1772.4	1965.0
87.5°	74.2	75.9	75.9	136.1	185.6	243.9	408.2	250.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)