

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: P269490

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269490  
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-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA 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: 21179.4 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

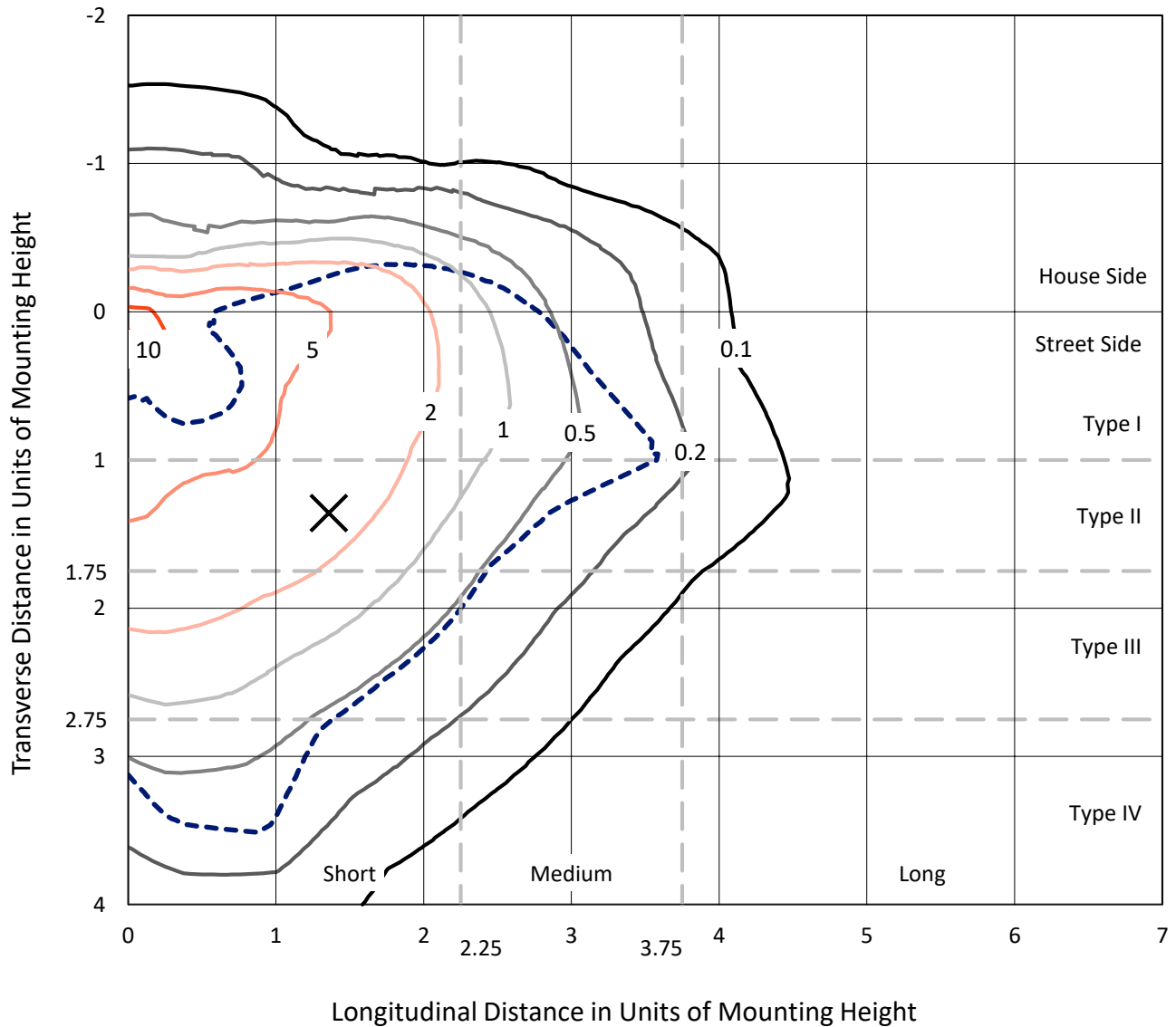
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

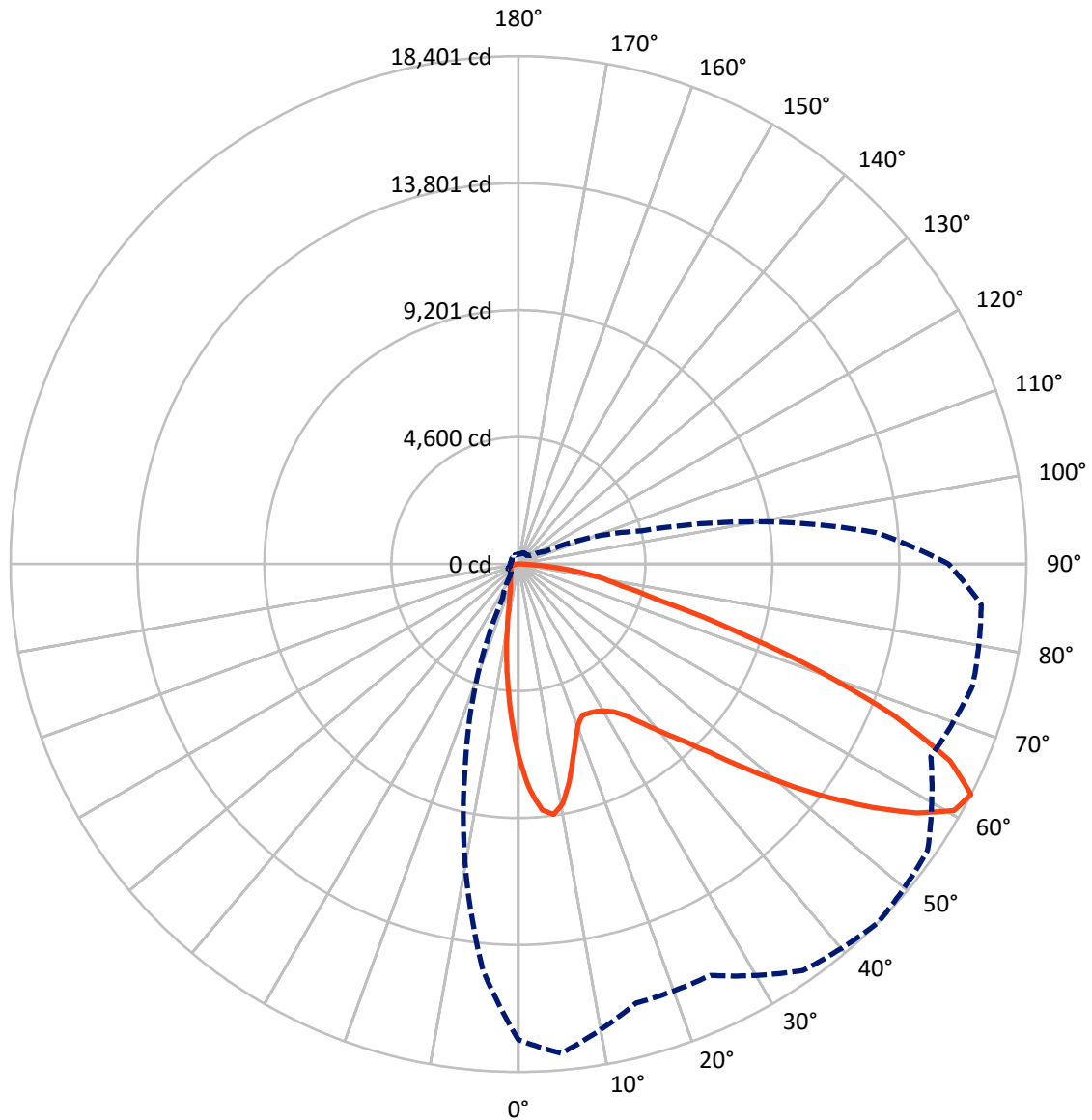
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	3504.9	0.0	3504.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	17674.5	0.0	17674.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	21179.4	0.0	21179.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.9	2.5
10°-20°	955.2	4.5
20°-30°	1392.6	6.6
30°-40°	2144.9	10.1
40°-50°	3156.7	14.9
50°-60°	4630.2	21.9
60°-70°	5175.9	24.4
70°-80°	2534.0	12.0
80°-90°	669.0	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°	21179.4	100.0
0°-180°	21179.4	100.0



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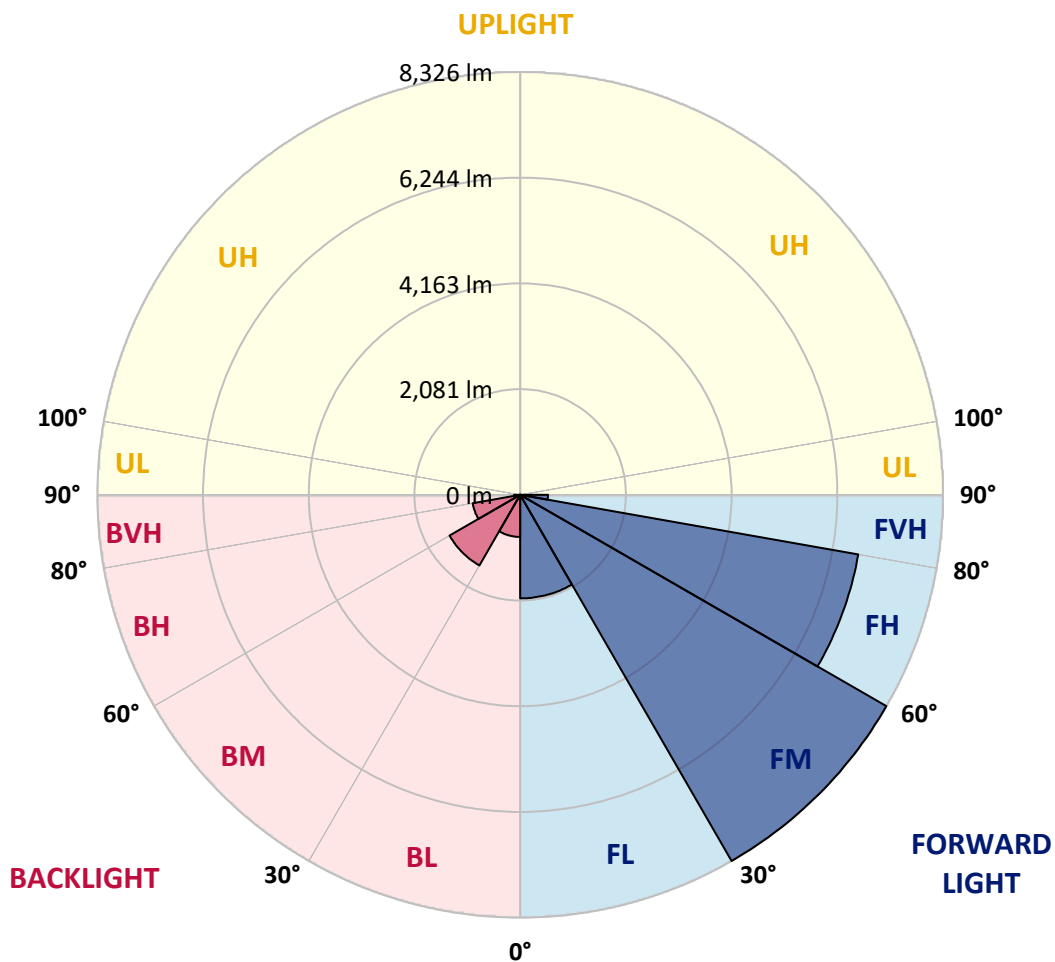
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2039.5	9.6			
FM (30°-60°)	8325.8	39.3			
FH (60°-80°)	6759.7	31.9			G3/7500
FVH (80°-90°)	549.5	2.6			G4/750
BL (0°-30°)	829.2	3.9	B2/1000		
BM (30°-60°)	1605.9	7.6	B2/2500		
BH (60°-80°)	950.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	119.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	7434.9	7553.7	7785.4	7958.9	8169.6	8218.6	8286.1	8219.8	8102.2	7946.0	7894.8
5°	6991.4	7245.2	7807.4	8302.3	8742.5	8947.4	9004.4	8835.5	8494.5	8046.2	7772.6
7.5°	6280.1	6640.9	7402.4	8131.2	8779.7	9162.7	9153.4	8761.1	8133.6	7403.6	6964.6
10°	5666.5	6078.7	6951.9	7766.7	8454.8	8826.2	8683.0	8181.3	7432.7	6592.0	6115.8
12.5°	5322.9	5727.0	6613.1	7431.5	8006.7	8134.7	8025.3	7533.9	6828.3	5978.5	5561.6
15°	5263.6	5707.2	6477.9	7144.0	7466.4	7354.7	7224.2	7004.2	6505.9	5780.6	5346.4
17.5°	5521.0	6009.9	6632.7	6943.7	6888.9	6694.4	6657.2	6681.8	6561.8	6000.6	5500.0
20°	6014.5	6601.4	7001.8	6849.3	6450.0	6182.2	6191.6	6565.3	6920.4	6558.3	5986.7
22.5°	6707.4	7376.7	7533.9	6899.4	6264.9	5947.0	6023.9	6629.3	7492.0	7373.3	6643.2
25°	7603.8	8213.8	8100.9	7081.0	6283.6	5976.2	6037.9	6850.6	8167.3	8188.2	7455.9
27.5°	8472.4	9038.1	8577.0	7322.1	6360.4	6044.9	6126.4	7198.6	8812.3	9073.2	8385.0
30°	9150.0	9543.5	8765.8	7542.1	6511.8	6178.7	6280.1	7529.2	9105.7	9670.3	9099.8
32.5°	9711.0	9994.1	9066.1	7814.5	6790.0	6389.5	6567.6	7931.0	9528.3	10238.5	9799.6
35°	10428.2	10508.6	9439.7	8118.4	7219.6	6756.2	6977.5	8324.5	9931.1	10812.4	10488.8
37.5°	11268.9	11165.3	9792.7	8534.0	7774.9	7330.2	7513.0	8756.4	10263.0	11463.4	11193.2
40°	12100.2	11851.0	10235.0	9179.1	8585.2	8006.7	8223.2	9217.5	10572.6	12115.4	11881.3
42.5°	12806.9	12437.8	10671.7	9888.1	9339.7	8752.9	9011.3	9682.0	10868.4	12671.9	12478.5
45°	13329.6	12870.8	11087.2	10569.2	10379.3	9744.9	9867.2	10214.1	11188.5	13136.4	12969.9
47.5°	13796.4	13306.4	11557.7	11256.0	11288.7	11034.9	10838.1	10833.4	11565.8	13515.9	13434.4
50°	14421.7	13910.6	12062.9	11963.9	12653.2	12484.4	12050.0	11556.4	12043.0	13946.6	13937.4
52.5°	15283.3	14867.6	12679.9	12726.5	13926.9	14037.5	13499.5	12424.9	12790.5	14737.2	14681.3
55°	16301.9	16059.8	13520.5	13603.3	15489.4	15568.4	15034.0	13511.2	13889.7	15881.7	15726.7
57.5°	17097.1	17045.9	14442.6	14655.7	16656.0	17012.1	16520.9	14768.7	15128.4	16845.6	16456.8
60°	17413.9	17661.8	15424.1	15717.6	17735.1	18129.9	17699.0	15873.5	16226.3	17245.0	16406.7
62.5°	17242.6	17797.0	16469.6	16445.2	17976.2	18401.2	18098.4	16488.2	17040.0	16832.9	15576.6
65°	16452.2	17311.3	17076.2	16257.7	17151.9	17186.8	17088.9	16213.5	17232.1	15530.1	13972.2
67.5°	14730.1	15966.7	16277.5	14651.0	14928.2	14701.1	14536.9	14709.2	16230.9	13577.6	11742.7
70°	11997.8	13858.2	14007.2	11718.3	11592.5	11440.0	11112.8	12059.3	14255.3	11128.1	9317.6
72.5°	8821.5	10777.5	11235.1	8594.5	8012.4	8043.9	7785.4	9088.2	11590.2	8266.3	6956.5
75°	6035.5	7804.0	8790.2	5997.2	5298.6	5311.4	5278.8	6439.5	9231.4	5750.3	5205.4
77.5°	4409.1	5575.6	6629.3	4031.9	3914.3	3842.1	3824.7	4505.7	7077.6	4175.1	4042.4
80°	3538.2	4119.2	4453.3	2794.2	3005.0	2999.1	2902.6	3098.1	4622.0	3053.9	3023.5
82.5°	2454.3	3165.6	3608.0	2190.0	2028.2	1994.3	2017.7	2307.6	3267.0	2087.5	1985.1
85°	1294.6	2102.7	3573.1	1940.8	1203.9	960.5	1194.6	1889.6	2830.3	1106.1	968.6
87.5°	165.3	607.8	2365.7	774.2	475.1	256.1	567.0	1064.1	1817.5	225.8	196.8
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°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	7763.3	7608.5	7405.8	7218.4	7023.9	6830.7	6578.1	6419.7	6310.2	6289.4	6242.7
5°	7574.7	7060.0	6671.3	6334.8	6029.8	5599.0	5360.2	5162.3	5056.4	5045.9	5020.3
7.5°	6704.9	5994.7	5469.7	4993.5	4561.6	4213.5	3829.3	3650.0	3576.6	3594.1	3611.5
10°	5800.4	5006.3	4403.2	3916.6	3535.9	3242.4	2934.0	2725.5	2581.2	2552.1	2546.2
12.5°	5139.1	4268.1	3682.5	3339.1	3044.5	2768.5	2441.5	2195.7	2008.3	1944.3	1901.3
15°	4859.7	3907.3	3293.6	2923.4	2598.6	2248.2	1944.3	1686.9	1514.7	1458.8	1427.3
17.5°	4918.9	3807.1	3025.9	2552.1	2136.3	1770.9	1387.8	1167.7	1064.1	1037.4	1037.4
20°	5231.0	3788.5	2804.7	2209.8	1691.7	1267.9	953.6	827.8	794.0	790.5	799.9
22.5°	5668.8	3853.6	2639.4	1912.9	1314.4	925.7	742.8	696.2	681.0	684.6	695.1
25°	6320.7	4073.8	2519.4	1648.6	1031.6	757.9	662.5	634.6	627.6	636.9	649.7
27.5°	7093.8	4293.8	2444.9	1449.5	870.8	692.8	629.8	600.7	605.4	617.0	628.8
30°	7772.6	4474.3	2327.4	1307.5	820.8	696.2	629.8	590.2	585.6	587.9	591.4
32.5°	8381.5	4596.4	2190.0	1172.4	707.9	618.3	587.9	582.1	556.5	547.2	548.3
35°	8906.5	4596.4	2107.3	1093.2	634.6	548.3	499.5	470.4	457.5	458.8	471.5
37.5°	9413.0	4504.6	2066.6	1049.0	594.9	521.6	478.4	452.8	435.4	431.9	434.3
40°	9860.2	4370.7	2020.0	1030.4	564.7	505.2	464.6	443.7	425.0	419.1	420.2
42.5°	10218.7	4262.4	1968.7	1005.9	546.0	493.7	455.3	436.5	415.6	409.8	408.6
45°	10606.4	4226.3	1901.3	957.1	555.3	494.7	452.8	433.2	412.1	405.1	402.8
47.5°	11117.6	4339.3	1831.4	898.8	575.2	500.6	456.3	433.2	411.0	405.1	402.8
50°	11761.4	4604.6	1742.9	813.9	555.3	517.0	455.3	429.6	411.0	405.1	400.6
52.5°	12587.9	4963.2	1626.6	715.9	543.7	556.5	452.8	422.7	405.1	397.1	388.8
55°	13592.8	5256.6	1488.0	635.7	517.0	546.0	449.4	414.5	395.9	384.2	377.2
57.5°	14328.5	5362.6	1309.8	583.3	479.6	528.6	444.8	404.0	384.2	375.0	365.6
60°	14183.0	5157.7	1159.6	550.8	457.5	477.4	441.2	394.6	373.8	366.8	358.7
62.5°	13017.6	4622.0	1063.0	535.6	443.7	435.4	444.8	385.4	364.4	357.4	355.1
65°	11270.0	3831.6	1024.5	532.1	431.9	411.0	413.3	375.0	353.9	348.2	345.8
67.5°	9296.6	3092.2	990.8	543.7	416.9	393.5	381.9	360.8	343.4	337.7	333.0
70°	7331.3	2571.8	975.6	536.7	398.2	376.1	363.3	345.8	330.7	324.8	321.4
72.5°	5904.0	2172.6	967.6	529.7	373.8	352.8	341.1	325.9	309.6	307.4	303.8
75°	4995.8	1707.9	886.0	507.6	345.8	324.8	316.7	302.6	286.4	286.4	284.0
77.5°	3853.6	1235.3	737.0	449.4	316.7	293.3	286.4	275.9	257.4	260.8	259.6
80°	2846.5	805.7	576.4	372.5	280.6	258.4	254.9	244.5	224.7	229.3	229.3
82.5°	1950.1	528.6	414.5	305.1	239.8	218.8	218.8	208.3	186.3	188.6	195.7
85°	979.2	363.3	309.6	236.3	186.3	175.8	175.8	167.7	145.5	146.8	156.0
87.5°	298.1	218.8	205.0	168.8	133.8	131.5	125.8	120.0	105.9	104.8	110.6
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	6171.7	6105.4	6025.0	5848.1	5788.7	5785.3	5838.8	5782.8	5889.9	5844.6	5894.7
5°	4977.1	4912.0	4822.5	4596.4	4459.0	4365.9	4321.7	4191.3	4285.6	4217.0	4274.0
7.5°	3660.5	3675.5	3616.1	3483.4	3184.2	3034.0	2945.6	2866.4	2935.1	2928.1	3037.6
10°	2573.0	2613.8	2571.8	2438.0	2195.7	2113.2	2129.4	2160.9	2250.6	2297.1	2465.8
12.5°	1852.3	1850.0	1823.2	1703.2	1543.7	1553.1	1619.5	1674.3	1756.8	1805.8	1978.1
15°	1383.1	1362.2	1350.5	1252.7	1162.0	1181.7	1214.2	1220.2	1272.4	1301.6	1441.3
17.5°	1045.4	1056.0	1068.9	998.9	930.3	917.3	891.7	860.3	875.5	881.3	951.1
20°	830.2	872.1	903.4	854.6	784.7	747.5	714.8	693.9	693.9	692.8	712.5
22.5°	725.3	755.7	789.4	755.7	692.8	660.2	641.5	625.2	622.9	622.9	641.5
25°	668.2	690.3	723.0	699.7	653.2	628.8	611.2	590.2	582.1	579.8	592.6
27.5°	640.3	649.7	666.0	645.1	605.4	593.8	589.1	570.6	560.1	554.2	567.0
30°	592.6	590.2	591.4	570.6	539.1	537.8	546.0	549.6	546.0	544.9	564.7
32.5°	548.3	543.7	542.5	523.9	494.7	487.8	494.7	501.9	510.0	521.6	544.9
35°	492.5	504.0	511.1	494.7	459.9	438.9	430.7	418.0	411.0	411.0	437.7
37.5°	448.3	475.1	485.5	470.4	431.9	402.8	388.8	386.5	387.7	392.4	418.0
40°	433.2	452.8	462.2	447.0	408.6	381.9	373.8	371.4	373.8	380.7	406.4
42.5°	423.8	437.7	436.5	418.0	386.5	367.9	363.3	360.8	363.3	370.2	398.2
45°	415.6	425.0	415.6	393.5	364.4	355.1	356.3	355.1	357.4	364.4	391.2
47.5°	408.6	412.1	400.6	378.4	348.2	345.8	350.5	353.9	356.3	362.0	390.0
50°	398.2	398.2	387.7	364.4	334.1	335.2	341.1	349.4	350.5	357.4	379.5
52.5°	385.4	384.2	377.2	355.1	322.5	325.9	325.9	335.2	337.7	345.8	369.1
55°	375.0	372.5	369.1	348.2	312.0	317.8	314.3	317.8	323.7	331.8	357.4
57.5°	365.6	360.8	360.8	342.3	303.8	306.2	298.1	302.6	309.6	316.7	343.4
60°	356.3	351.5	353.9	334.1	291.1	288.7	285.2	294.6	296.9	305.1	331.8
62.5°	345.8	342.3	343.4	324.8	281.8	275.9	275.9	284.0	285.2	296.9	322.5
65°	337.7	333.0	331.8	315.6	271.3	264.3	267.8	271.3	273.7	285.2	309.6
67.5°	329.5	320.2	320.2	307.4	259.6	252.7	259.6	258.4	261.9	272.5	292.2
70°	319.0	306.2	307.4	301.6	248.0	239.8	245.6	244.5	246.9	253.9	273.7
72.5°	302.6	292.2	294.6	292.2	236.3	224.7	227.0	227.0	227.0	232.8	253.9
75°	281.8	273.7	280.6	286.4	222.4	206.2	208.3	208.3	205.0	208.3	234.0
77.5°	256.1	251.4	274.7	266.5	206.2	186.3	186.3	184.0	177.0	181.6	209.6
80°	228.2	224.7	253.9	223.6	187.4	161.9	159.4	153.7	146.8	150.1	178.1
82.5°	199.1	195.7	213.1	171.1	161.9	133.8	128.1	117.6	110.6	114.2	139.6
85°	163.0	163.0	164.2	129.3	123.3	102.4	95.5	81.4	73.3	75.6	100.2
87.5°	116.4	120.0	110.6	88.6	73.3	57.0	52.5	44.2	37.3	43.1	52.5
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: P269490

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7027-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4	7155.4
2.5°	6150.8	6278.9	6424.4	6610.6	6770.2	7032.1	7283.5	7434.9
5°	4598.9	4812.0	5077.3	5418.4	5736.2	6213.7	6687.5	6991.4
7.5°	3291.4	3519.6	3805.9	4232.1	4681.4	5290.4	5916.7	6280.1
10°	2723.2	2957.2	3198.2	3485.9	3853.6	4516.1	5256.6	5666.5
12.5°	2252.8	2503.1	2762.7	3065.5	3406.6	3998.0	4851.4	5322.9
15°	1724.2	2003.7	2309.9	2692.8	3120.3	3803.7	4751.3	5263.6
17.5°	1181.7	1493.7	1869.8	2342.5	2865.2	3740.7	4930.6	5521.0
20°	813.9	1040.9	1442.5	1996.8	2625.3	3732.5	5275.2	6014.5
22.5°	681.0	782.3	1075.8	1678.8	2444.9	3832.8	5809.7	6707.4
25°	629.8	690.3	859.1	1403.0	2313.3	4063.3	6545.5	7603.8
27.5°	599.6	654.3	780.1	1222.5	2209.8	4331.1	7261.4	8472.4
30°	611.2	667.1	757.9	1130.4	2068.8	4554.5	7897.2	9150.0
32.5°	550.8	575.2	649.7	1049.0	1967.6	4742.1	8453.7	9711.0
35°	469.2	512.3	579.8	1010.6	1970.0	4867.7	9060.2	10428.2
37.5°	447.0	490.1	539.1	996.6	1996.8	5001.7	9756.5	11268.9
40°	433.2	472.7	514.5	988.5	2022.4	5123.9	10438.8	12100.2
42.5°	423.8	459.9	512.3	960.5	2035.1	5233.3	10999.9	12806.9
45°	422.7	459.9	521.6	932.6	2055.0	5350.9	11470.3	13329.6
47.5°	423.8	475.1	504.0	898.8	2055.0	5547.8	12022.1	13796.4
50°	419.1	500.6	485.5	851.1	2007.3	5920.3	12778.8	14421.7
52.5°	416.9	497.1	449.4	777.8	1924.4	6511.8	13748.6	15283.3
55°	411.0	479.6	423.8	668.2	1828.0	7156.6	14787.3	16301.9
57.5°	405.1	425.0	409.8	572.8	1678.8	7610.8	15502.1	17097.1
60°	454.1	371.4	398.2	526.2	1479.8	7735.3	15474.2	17413.9
62.5°	420.2	348.2	383.0	515.7	1340.0	7386.0	14759.3	17242.6
65°	329.5	333.0	367.9	546.0	1302.8	6460.5	13492.6	16452.2
67.5°	301.6	317.8	352.8	584.4	1306.2	5172.8	11599.5	14730.1
70°	284.0	301.6	335.2	604.3	1315.6	3856.1	9170.8	11997.8
72.5°	264.3	279.5	315.6	607.8	1255.1	2801.3	7068.3	8821.5
75°	240.9	254.9	287.5	529.7	1039.7	1943.2	5406.8	6035.5
77.5°	214.2	224.7	252.7	408.6	772.0	1243.4	4058.6	4409.1
80°	182.7	188.6	211.9	299.2	528.6	777.8	3211.0	3538.2
82.5°	146.8	148.9	164.2	224.7	343.4	499.5	2150.5	2454.3
85°	103.7	103.7	112.9	163.0	234.0	316.7	1167.7	1294.6
87.5°	48.9	50.0	50.0	89.7	122.3	160.6	269.0	165.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)