

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: P269502

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
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-T2R-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25108.2 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 226  
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

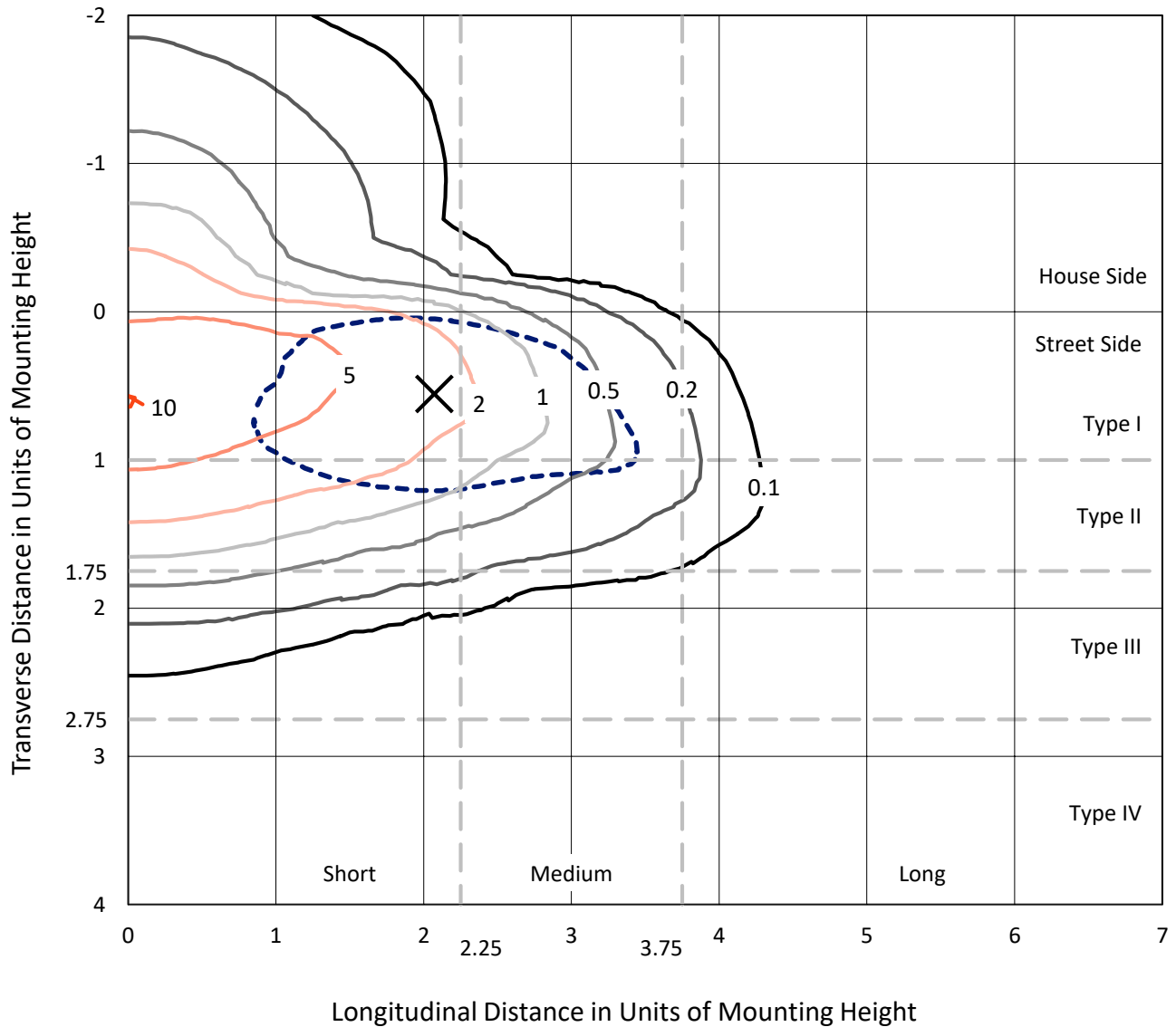


REPORT NUMBER: P269502

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7027-600

### Iso-Footcandle Lines of Horizontal Illumination

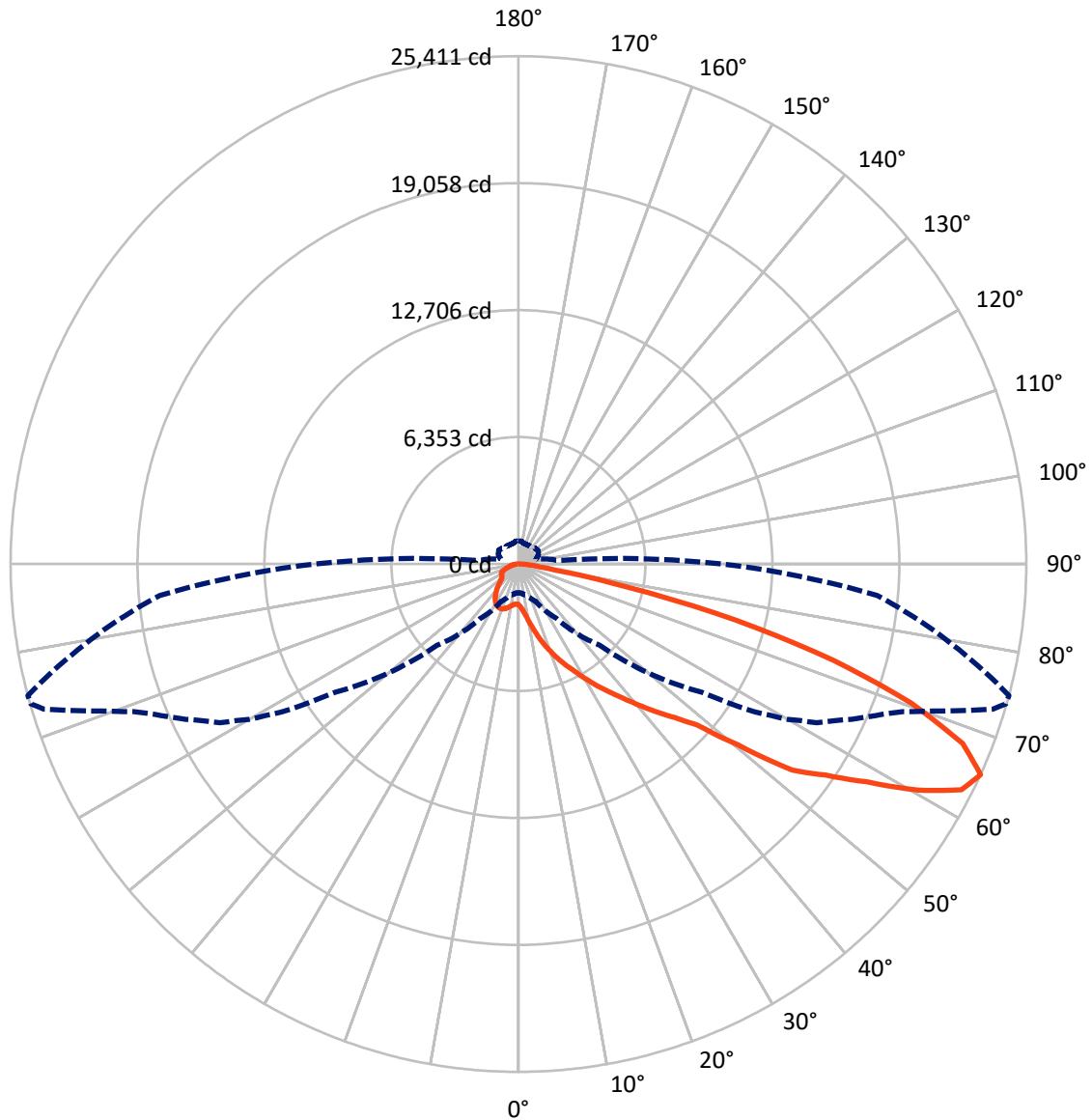
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P269502  
CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7027-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P269502

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7027-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3871.1	0.0	3871.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	21237.1	0.0	21237.1
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	25108.2	0.0	25108.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.2	1.0
10°-20°	985.5	3.9
20°-30°	2021.9	8.1
30°-40°	3401.7	13.5
40°-50°	4700.1	18.7
50°-60°	5867.2	23.4
60°-70°	5279.8	21.0
70°-80°	2213.2	8.8
80°-90°	386.7	1.5
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°	25108.2	100.0
0°-180°	25108.2	100.0



REPORT NUMBER: P269502

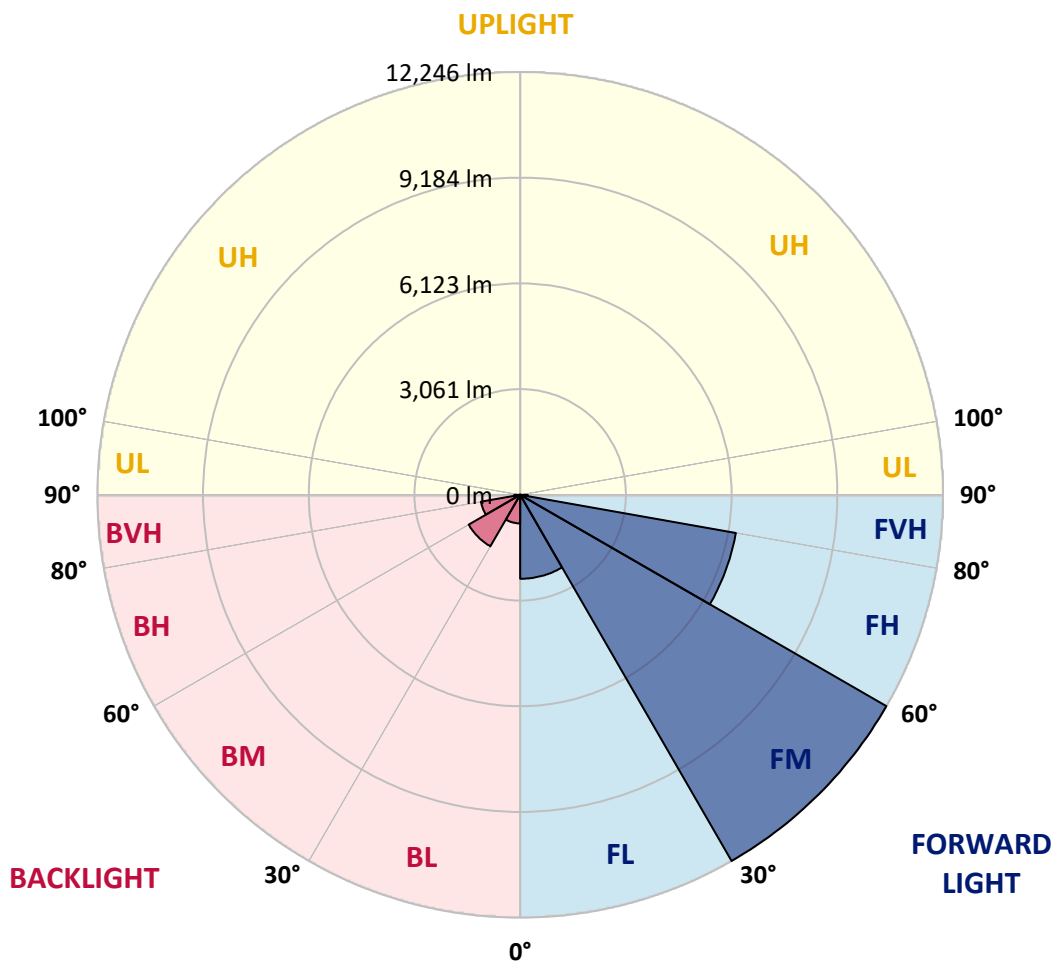
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.7	9.7			
FM (30°-60°)	12245.9	48.8			
FH (60°-80°)	6342.3	25.3			G3/7500
FVH (80°-90°)	217.3	0.9			G2/225
BL (0°-30°)	827.9	3.3	B2/1000		
BM (30°-60°)	1723.1	6.9	B2/2500		
BH (60°-80°)	1150.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	169.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P269502

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7027-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2590.7	2562.2	2569.4	2521.8	2463.6	2387.5	2303.2	2301.9	2303.2	2294.8	2264.0
5°	3592.6	3558.1	3545.2	3438.2	3281.2	3057.8	2815.4	2789.2	2778.5	2751.1	2688.2
7.5°	4323.5	4304.5	4284.2	4203.4	4060.9	3811.2	3485.7	3429.8	3376.3	3363.3	3292.0
10°	4795.3	4790.5	4747.7	4726.3	4637.2	4421.0	4103.6	4050.2	3991.9	3971.8	3896.8
12.5°	5168.5	5167.3	5147.1	5152.9	5075.8	4918.8	4645.6	4596.8	4554.0	4492.2	4438.7
15°	5426.3	5427.5	5457.3	5490.5	5478.7	5372.9	5116.1	5094.7	5057.9	5015.1	4952.1
17.5°	5637.9	5643.8	5674.8	5735.4	5800.7	5792.5	5589.2	5571.4	5539.3	5481.0	5447.7
20°	6115.7	6138.2	6078.8	6078.8	6085.9	6117.9	6020.6	6006.2	5961.2	5930.3	5904.1
22.5°	6922.6	6948.7	6814.5	6677.8	6543.4	6446.0	6348.6	6366.4	6335.4	6314.0	6298.6
25°	7970.8	7991.0	7773.6	7543.0	7269.7	6913.0	6671.8	6661.1	6644.6	6631.4	6624.3
27.5°	8957.2	8965.4	8759.9	8422.4	8105.0	7592.8	6999.9	6986.7	6966.5	6941.7	6920.3
30°	9801.0	9798.5	9587.0	9264.9	8925.1	8358.2	7497.8	7457.4	7397.9	7330.2	7277.9
32.5°	10531.8	10528.2	10296.6	9962.6	9606.0	9116.4	8180.0	8096.8	8004.1	7872.1	7792.4
35°	11107.1	11104.7	10886.0	10537.7	10129.0	9830.6	8961.9	8859.8	8742.0	8565.0	8442.6
37.5°	11324.6	11324.6	11202.1	10964.4	10603.1	10398.7	9830.6	9707.1	9581.1	9380.2	9242.4
40°	11197.4	11199.7	11225.8	11181.9	11006.0	10849.1	10641.1	10567.5	10459.3	10278.6	10134.9
42.5°	10770.7	10783.8	10957.3	11170.1	11258.0	11232.9	11360.1	11326.9	11250.8	11111.8	10997.7
45°	10230.0	10270.4	10460.6	10862.2	11328.0	11564.6	11962.6	11966.2	11951.9	11877.1	11789.1
47.5°	9487.2	9544.2	9794.9	10338.1	11164.0	11886.6	12574.7	12606.9	12636.5	12587.8	12547.3
50°	8500.8	8568.6	8944.1	9664.2	10830.1	12220.6	13731.0	13876.1	14011.6	13995.0	14022.3
52.5°	7444.3	7523.9	7983.9	8786.1	10256.0	12297.8	14470.3	14706.7	14943.2	15137.0	15342.6
55°	6491.2	6448.5	6908.3	7753.4	9312.5	11949.7	15134.6	15419.9	15683.7	15921.3	16166.2
57.5°	5199.4	5269.5	5730.6	6566.0	8063.5	10966.8	15592.2	16009.2	16388.4	16781.7	17128.8
60°	3800.5	3870.6	4371.1	5219.5	6707.5	9476.5	15242.7	15874.9	16482.3	17084.9	17555.4
62.5°	2294.8	2347.1	2788.1	3596.2	5172.0	7709.3	13685.9	14515.4	15409.2	16129.2	16850.6
65°	1428.5	1458.2	1621.0	2065.6	3321.7	5755.5	11181.9	12086.2	13048.9	13962.9	14712.7
67.5°	1169.5	1180.2	1209.7	1304.9	1824.3	3753.1	8322.5	9123.5	9992.2	10876.5	11710.8
70°	1051.7	1044.5	1044.5	1050.6	1169.5	2018.0	5448.8	5970.7	6694.3	7463.3	8226.3
72.5°	949.6	942.4	929.3	911.5	954.3	1231.1	2816.5	3210.0	3731.6	4415.0	5145.9
75°	853.3	843.8	828.3	805.8	835.5	929.3	1352.4	1517.6	1771.9	2135.6	2543.2
77.5°	753.5	741.6	727.3	710.6	748.6	722.5	792.7	852.1	949.6	1066.0	1219.3
80°	640.5	629.8	625.1	616.7	662.0	550.2	559.7	596.6	653.6	716.6	788.0
82.5°	501.6	501.6	520.6	524.2	573.9	395.8	418.3	450.4	480.1	513.4	546.7
85°	330.3	332.7	397.0	421.9	452.7	266.2	313.8	324.5	348.3	367.2	381.5
87.5°	103.3	111.7	242.5	268.7	260.2	150.9	192.5	197.3	213.9	227.0	238.9
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: P269502

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7027-600

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2264.0	2249.6	2236.6	2235.4	2225.9	2212.9	2217.6	2197.4	2198.6	2187.9	2176.1
5°	2662.0	2652.5	2605.1	2592.0	2556.2	2533.7	2530.2	2482.6	2476.6	2449.4	2419.7
7.5°	3234.8	3204.0	3137.4	3105.4	3044.7	2999.6	2978.2	2915.2	2884.3	2813.0	2781.0
10°	3835.0	3795.9	3713.9	3668.7	3610.5	3538.0	3498.7	3407.2	3371.6	3306.2	3227.8
12.5°	4391.3	4352.0	4267.7	4233.2	4155.9	4078.7	4035.8	3932.5	3886.2	3781.5	3719.8
15°	4905.9	4866.6	4792.9	4757.2	4680.0	4617.0	4559.9	4457.7	4403.1	4305.7	4224.9
17.5°	5404.9	5363.4	5299.2	5267.1	5192.3	5128.1	5066.3	4970.1	4914.2	4816.7	4744.2
20°	5868.4	5837.5	5791.3	5748.4	5673.5	5615.3	5541.6	5458.5	5377.7	5306.3	5237.4
22.5°	6272.5	6260.6	6210.7	6191.7	6127.5	6077.7	6013.4	5931.4	5873.2	5782.8	5718.7
25°	6620.7	6617.2	6593.4	6587.5	6542.3	6494.7	6480.6	6412.7	6359.3	6279.6	6213.0
27.5°	6920.3	6923.7	6917.8	6934.5	6922.6	6901.1	6902.3	6879.8	6848.9	6782.4	6724.2
30°	7252.9	7234.0	7244.7	7268.4	7275.6	7277.9	7317.1	7330.2	7327.8	7283.8	7255.3
32.5°	7723.5	7678.4	7636.9	7633.3	7657.1	7666.6	7733.1	7767.6	7797.3	7808.0	7812.6
35°	8323.8	8233.4	8146.6	8100.2	8060.0	8070.6	8118.2	8173.9	8239.3	8284.4	8338.0
37.5°	9079.6	8969.0	8815.7	8706.5	8679.1	8619.6	8650.6	8694.5	8758.7	8828.8	8921.4
40°	9995.8	9828.3	9655.9	9511.0	9432.6	9323.1	9322.0	9313.6	9353.0	9418.3	9549.1
42.5°	10877.7	10729.0	10546.1	10394.0	10291.7	10145.5	10115.9	10038.6	10056.4	10113.5	10240.7
45°	11703.6	11581.2	11469.5	11293.6	11206.9	11048.9	10998.8	10907.4	10856.2	10882.3	11009.5
47.5°	12503.4	12424.9	12308.5	12194.4	12127.8	11986.4	11922.2	11856.9	11791.5	11789.1	11922.2
50°	14062.6	14021.0	13883.1	13764.3	13796.3	13622.9	13633.7	13457.7	13537.4	13546.9	13826.2
52.5°	15527.9	15673.0	15775.1	15899.9	15980.8	15996.2	16049.7	16129.2	16225.5	16415.7	16674.8
55°	16366.9	16548.8	16654.5	16749.6	16906.6	16939.8	17028.9	17134.7	17219.2	17433.0	17652.9
57.5°	17364.1	17701.6	17865.6	18016.5	18228.0	18308.8	18457.5	18572.6	18682.1	18935.2	19201.5
60°	17978.5	18389.7	18723.6	18962.5	19227.5	19417.8	19642.2	19823.0	20079.6	20382.7	20779.7
62.5°	17490.1	18093.8	18537.1	18947.1	19307.1	19670.8	19992.9	20330.4	20720.1	21178.9	21794.6
65°	15544.6	16159.0	16918.4	17343.8	17820.4	18381.4	18871.1	19417.8	19948.9	20616.8	21527.2
67.5°	12514.1	13228.4	14081.7	14510.7	15058.6	15684.9	16233.9	16901.8	17522.2	18331.4	19456.8
70°	9020.2	9943.6	10661.4	11109.3	11748.8	12394.0	12924.2	13701.4	14214.8	15044.3	16207.8
72.5°	5711.6	6440.0	7319.5	7884.1	8452.2	9105.7	9647.6	10317.9	10796.9	11552.7	12606.9
75°	3070.9	3608.0	4380.6	4916.6	5524.9	6083.5	6718.2	7167.3	7521.6	8119.3	8975.0
77.5°	1439.2	1766.0	2157.0	2569.4	2981.7	3411.9	3830.4	4193.9	4346.1	4688.3	5193.5
80°	873.5	979.2	1093.3	1220.4	1392.8	1531.9	1716.1	1849.3	1858.8	1966.8	2121.3
82.5°	583.4	622.7	657.2	689.3	733.2	767.7	806.9	853.3	872.3	897.2	947.2
85°	398.0	417.2	424.3	444.5	439.7	451.6	467.1	482.5	490.8	489.7	512.3
87.5°	244.8	254.3	259.2	263.8	260.2	255.5	262.7	271.0	273.4	266.2	268.7
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: P269502

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7027-600

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2178.4	2167.7	2157.0	2149.9	2147.5	2084.4	2057.2	2039.3	2001.3	1970.4	1945.5
5°	2403.0	2380.4	2362.6	2341.3	2329.3	2170.0	2111.8	2071.4	2004.8	1965.6	1930.0
7.5°	2764.3	2701.4	2664.5	2622.8	2587.2	2299.7	2203.4	2140.3	2047.6	1995.3	1954.9
10°	3174.3	3108.9	3050.6	2986.5	2930.7	2472.0	2331.7	2234.3	2111.8	2044.2	1990.6
12.5°	3631.8	3567.7	3494.0	3411.9	3340.6	2690.7	2495.8	2356.7	2189.1	2098.8	2023.9
15°	4172.5	4059.7	3970.5	3875.5	3792.3	2952.0	2687.0	2494.6	2271.1	2148.7	2048.9
17.5°	4675.3	4556.5	4435.2	4352.0	4255.7	3245.5	2879.5	2634.8	2338.7	2180.7	2053.5
20°	5166.2	5036.5	4932.0	4820.2	4719.2	3549.8	3085.1	2758.3	2382.8	2182.0	2023.9
22.5°	5598.6	5517.8	5401.4	5280.1	5178.0	3854.1	3277.6	2862.9	2399.5	2154.7	1971.6
25°	6090.7	6005.1	5862.5	5760.3	5646.1	4164.3	3466.6	2943.7	2389.9	2103.6	1890.8
27.5°	6615.9	6520.8	6374.7	6267.7	6129.9	4486.3	3640.1	3002.0	2354.3	2020.3	1782.6
30°	7163.9	7077.0	6933.3	6825.1	6686.1	4827.4	3833.8	3041.2	2283.0	1905.0	1656.7
32.5°	7752.2	7679.6	7537.0	7424.1	7275.6	5197.0	4014.4	3053.1	2174.8	1768.4	1523.5
35°	8310.7	8260.8	8140.7	8034.9	7880.4	5546.3	4205.9	3047.1	2046.5	1618.7	1402.3
37.5°	8939.4	8909.6	8850.2	8716.0	8526.9	6020.6	4435.2	3022.2	1889.6	1470.0	1309.6
40°	9609.6	9612.0	9547.8	9456.3	9280.4	6595.7	4708.6	2973.4	1718.5	1339.4	1225.3
42.5°	10319.1	10355.9	10325.1	10259.7	10090.9	7175.8	5035.4	2914.0	1552.1	1212.3	1142.0
45°	11131.9	11177.2	11224.7	11128.5	10964.4	7941.0	5465.6	2836.8	1372.6	1106.4	1085.1
47.5°	12069.6	12141.0	12183.7	12184.9	12020.8	8889.4	6164.3	2790.4	1213.4	1035.0	1057.8
50°	14048.4	14071.0	14172.0	14347.9	14221.8	11084.5	7384.8	2761.8	1105.3	991.1	1037.5
52.5°	16899.5	17147.7	17322.5	17310.6	17139.5	12478.4	8057.5	2614.5	1041.0	974.5	1028.0
55°	18060.6	18370.7	18693.9	18779.4	18646.4	13668.2	8693.3	2467.1	1010.1	986.3	1031.6
57.5°	19607.8	20130.7	20574.1	20760.5	20568.1	15190.5	9529.9	2389.9	1000.6	1018.5	1054.2
60°	21415.5	22062.0	22644.2	22979.5	22979.5	16939.8	10397.5	2357.8	987.5	1066.0	1092.2
62.5°	22576.6	23526.2	24405.5	24896.3	24882.1	18158.0	10782.5	2248.5	957.9	1099.3	1144.4
65°	22581.2	23710.3	24830.9	25382.4	25411.0	18008.2	10146.7	1985.9	903.2	1104.0	1196.7
67.5°	20698.7	21902.7	23208.8	23825.6	23968.1	16577.3	8783.6	1632.8	814.0	1056.4	1215.8
70°	17481.7	18657.1	19990.5	20596.6	20849.8	14131.5	7074.7	1258.5	700.0	951.9	1176.5
72.5°	13772.6	14925.3	15853.6	16297.0	16494.1	10801.6	5151.8	950.8	573.9	802.1	1070.8
75°	9751.0	10616.2	11109.3	11208.1	11239.0	6511.4	3130.4	707.1	473.0	624.0	904.5
77.5°	5503.6	5874.3	5834.0	5878.0	5511.9	2513.5	1363.1	506.3	389.9	474.1	701.1
80°	2148.7	2215.2	2081.0	2039.3	1870.6	935.2	601.3	352.9	311.4	359.0	490.8
82.5°	947.2	978.1	949.6	956.7	915.2	482.5	360.1	255.5	237.7	262.7	325.6
85°	521.7	531.2	528.8	544.4	521.7	192.5	171.1	156.8	166.4	178.3	209.1
87.5°	254.3	256.6	248.4	261.4	253.1	97.5	84.4	89.1	97.5	99.8	99.8
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: P269502

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-7027-600

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	1927.7	1918.2	1919.3	1917.0	1912.2	1912.2
5°	1911.0	1901.5	1901.5	1899.0	1893.2	1894.3
7.5°	1927.7	1912.2	1906.3	1897.8	1889.6	1889.6
10°	1946.6	1919.3	1902.7	1888.3	1877.6	1877.6
12.5°	1960.9	1918.2	1890.8	1871.8	1861.1	1861.1
15°	1965.6	1909.7	1871.8	1849.3	1839.6	1838.6
17.5°	1950.2	1877.6	1831.4	1805.2	1793.3	1789.8
20°	1902.7	1819.4	1763.6	1733.9	1717.3	1711.4
22.5°	1831.4	1736.2	1670.9	1640.0	1618.7	1615.1
25°	1731.6	1629.3	1565.1	1535.5	1523.5	1520.0
27.5°	1615.1	1520.0	1465.3	1446.4	1435.6	1434.5
30°	1504.5	1423.8	1383.3	1369.0	1356.0	1353.7
32.5°	1401.1	1350.1	1334.6	1314.4	1283.5	1279.9
35°	1327.4	1322.8	1312.1	1266.9	1228.8	1218.1
37.5°	1282.3	1326.3	1271.6	1182.4	1155.1	1152.7
40°	1256.2	1289.4	1195.6	1164.7	1167.1	1164.7
42.5°	1196.7	1231.1	1197.9	1183.6	1193.2	1195.6
45°	1137.3	1175.3	1215.8	1206.2	1228.8	1228.8
47.5°	1104.0	1161.1	1214.6	1214.6	1247.8	1259.8
50°	1066.0	1149.2	1195.6	1212.3	1238.4	1228.8
52.5°	1063.7	1129.0	1168.2	1197.9	1209.7	1199.1
55°	1067.1	1112.5	1140.8	1174.2	1188.4	1189.6
57.5°	1071.9	1102.8	1121.9	1137.3	1180.2	1180.2
60°	1083.8	1094.6	1105.3	1113.5	1169.5	1170.6
62.5°	1102.8	1086.2	1083.8	1092.2	1163.5	1158.8
65°	1132.6	1074.4	1056.4	1064.9	1157.6	1143.3
67.5°	1172.9	1056.4	1022.0	1028.0	1152.7	1121.9
70°	1209.7	1028.0	979.2	973.4	1107.6	1053.0
72.5°	1213.4	994.8	919.9	902.0	962.7	910.3
75°	1154.0	972.1	854.5	802.1	795.1	788.0
77.5°	1039.9	959.1	778.4	696.5	682.2	686.9
80°	869.9	910.3	686.9	589.5	666.7	658.4
82.5°	650.1	803.4	583.4	521.7	520.6	459.9
85°	361.3	626.3	475.4	391.0	272.1	263.8
87.5°	101.0	348.3	332.7	221.1	150.9	156.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)