

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: P269495

Luminaire Tested: **GLEON-AF-07-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269495  
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-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA 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: 25972 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 295  
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

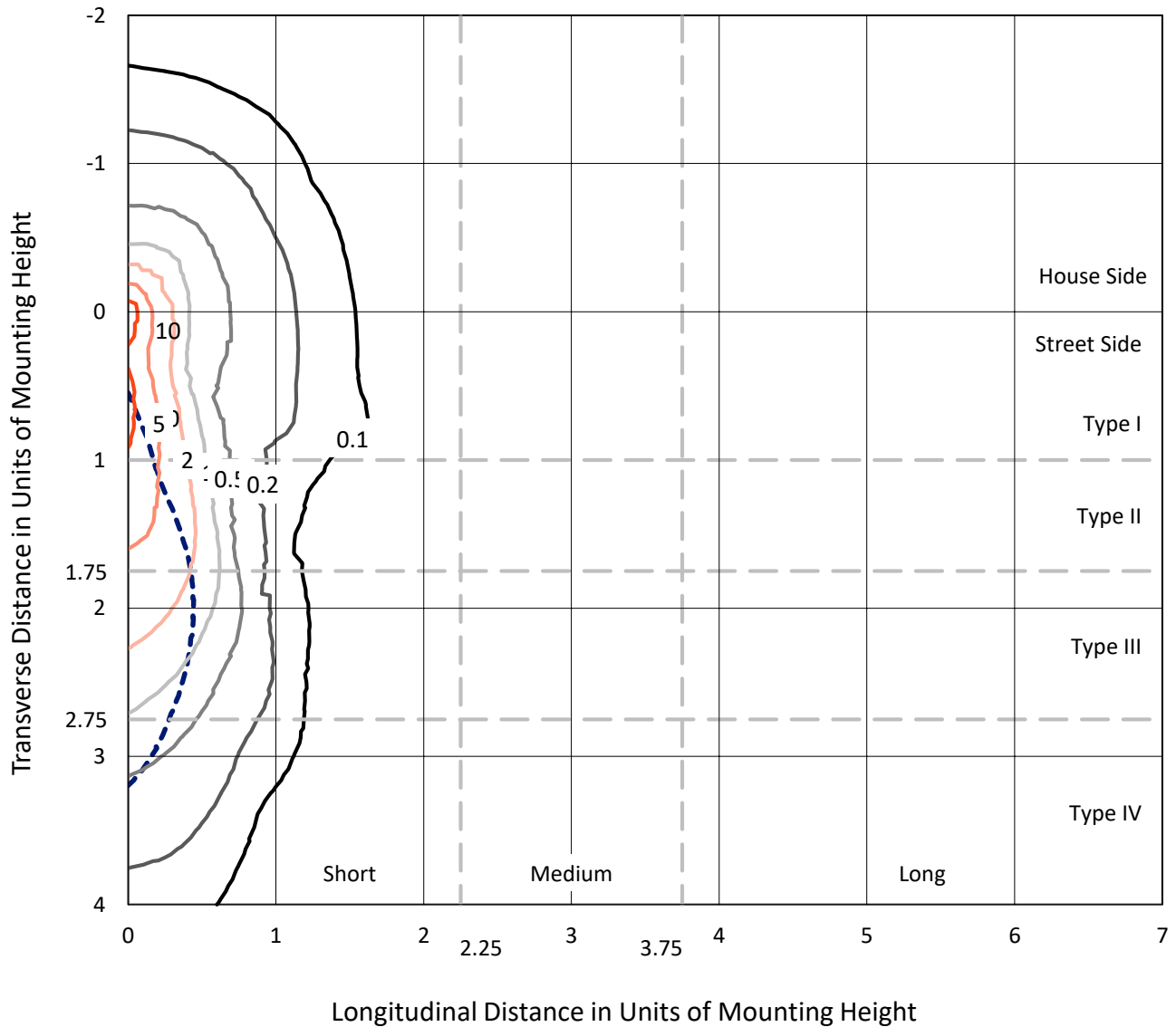


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### Iso-Footcandle Lines of Horizontal Illumination

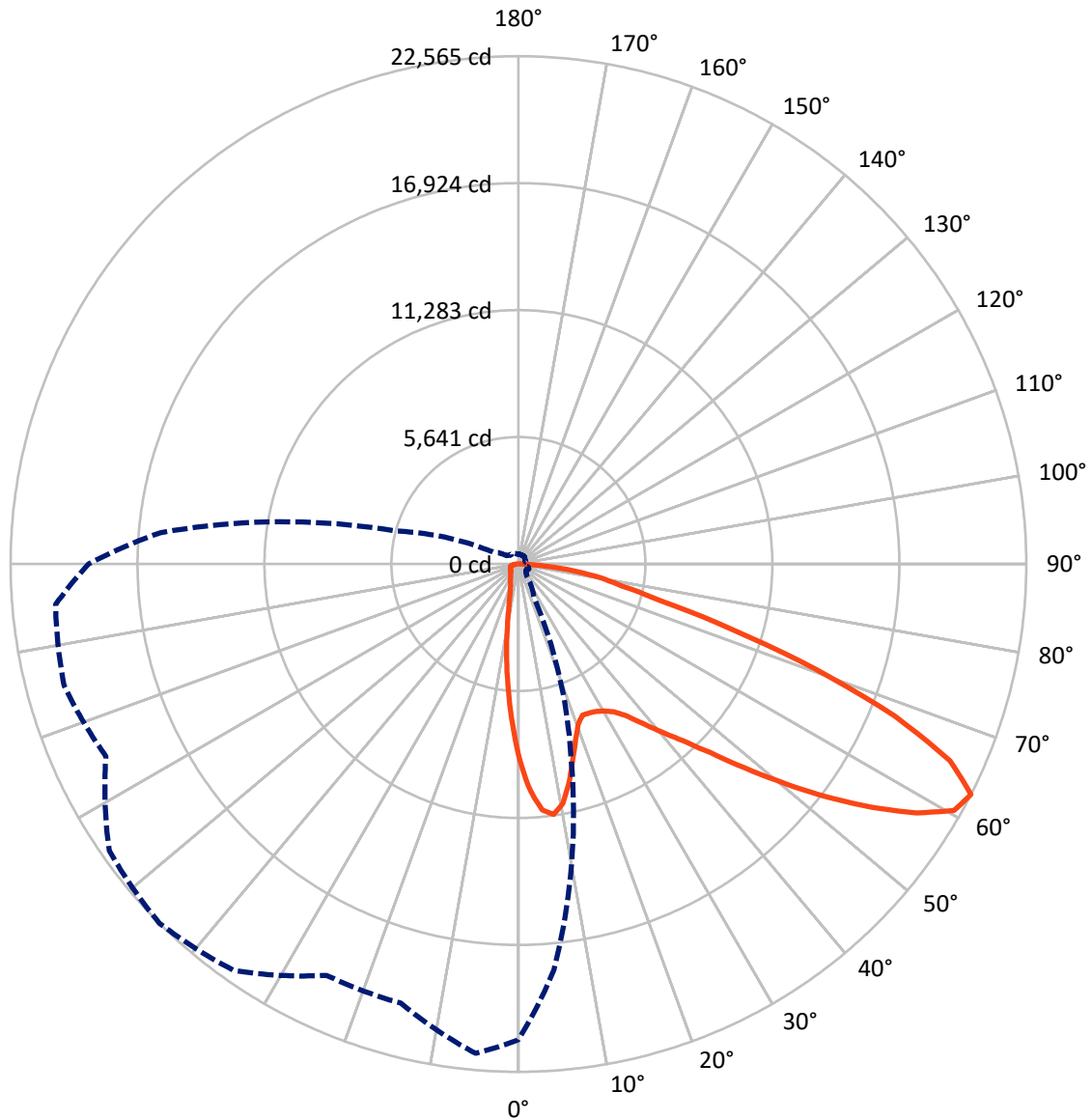
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4298.0	0.0	4298.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	21674.0	0.0	21674.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	25972.0	0.0	25972.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	638.8	2.5
10°-20°	1171.3	4.5
20°-30°	1707.8	6.6
30°-40°	2630.2	10.1
40°-50°	3871.0	14.9
50°-60°	5677.9	21.9
60°-70°	6347.1	24.4
70°-80°	3107.5	12.0
80°-90°	820.5	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°	25972.0	100.0
0°-180°	25972.0	100.0



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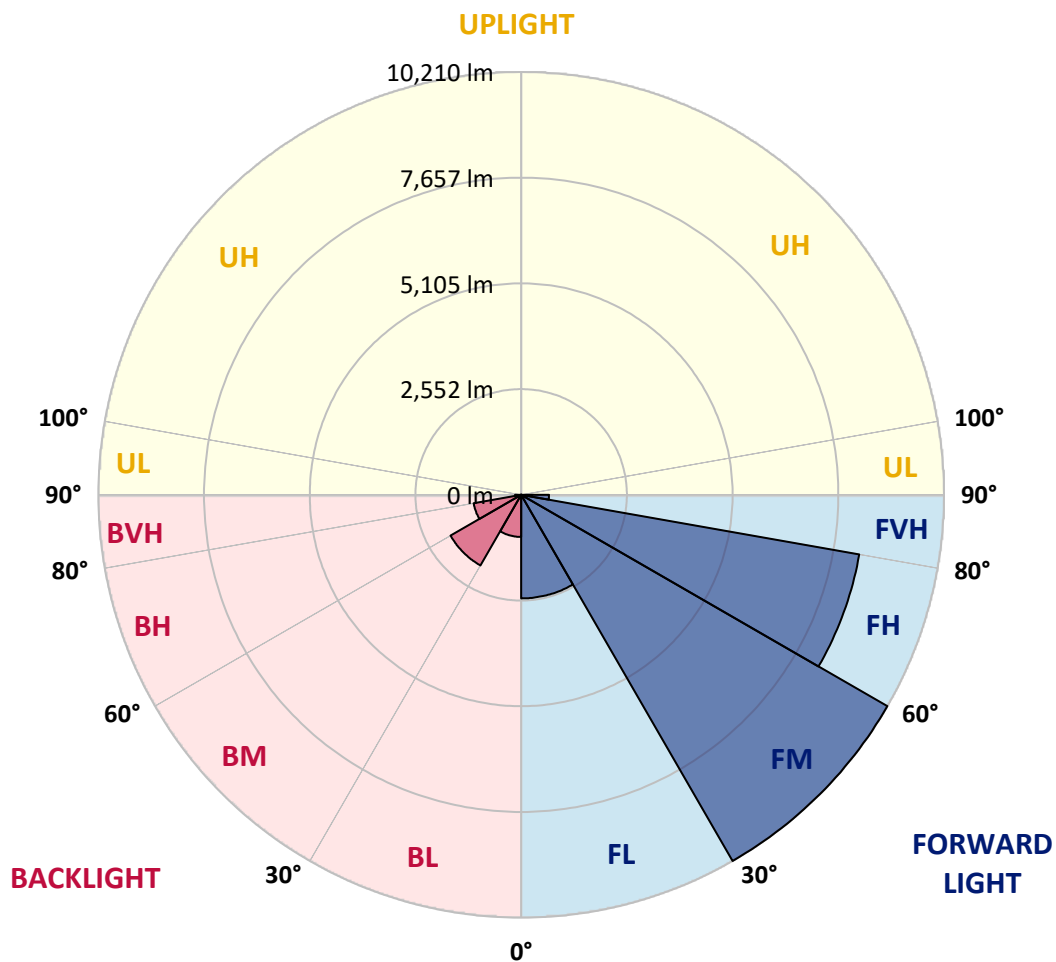
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2501.0	9.6			
FM (30°-60°)	10209.8	39.3			
FH (60°-80°)	8289.4	31.9			G4/12000
FVH (80°-90°)	673.8	2.6			G4/750
BL (0°-30°)	1016.8	3.9	B3/2500		
BM (30°-60°)	1969.3	7.6	B2/2500		
BH (60°-80°)	1165.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	146.7	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7
2.5°	9117.3	8931.8	8623.4	8302.1	8106.6	7878.1	7699.6	7542.6	7228.5	7167.1	7222.8
5°	8573.5	8200.7	7619.8	7034.4	6644.6	6226.2	5900.7	5639.5	5241.2	5171.2	5255.4
7.5°	7701.1	7255.6	6487.5	5740.9	5189.8	4667.2	4315.9	4036.2	3724.9	3590.6	3599.2
10°	6948.7	6446.1	5538.1	4725.8	4274.6	3921.9	3626.4	3339.4	3024.0	2816.8	2759.8
12.5°	6527.5	5949.2	4902.8	4177.5	3759.1	3388.0	3069.6	2762.6	2425.8	2214.4	2154.4
15°	6454.7	5826.4	4664.3	3826.3	3302.3	2832.5	2457.1	2114.4	1767.5	1596.2	1560.4
17.5°	6770.3	6046.3	4587.3	3513.6	2872.6	2293.0	1831.7	1449.1	1166.4	1080.8	1073.7
20°	7375.5	6469.0	4577.3	3219.4	2448.5	1768.9	1276.4	997.9	873.7	849.4	851.0
22.5°	8225.1	7124.3	4700.0	2998.3	2058.7	1319.3	959.4	835.2	786.6	763.7	763.7
25°	9324.3	8026.6	4982.7	2836.8	1720.4	1053.6	846.7	772.5	726.6	711.0	713.9
27.5°	10389.4	8904.7	5311.0	2709.7	1499.1	956.5	802.4	735.3	695.3	679.6	686.8
30°	11220.4	9684.2	5585.2	2537.1	1386.4	929.4	818.0	749.5	692.5	668.2	669.5
32.5°	11908.6	10366.6	5815.1	2412.8	1286.4	796.6	705.3	675.3	668.2	639.7	625.3
35°	12788.0	11110.4	5969.2	2415.7	1239.2	711.0	628.2	575.4	536.7	503.9	503.9
37.5°	13818.8	11964.3	6133.4	2448.5	1222.1	661.1	601.1	548.2	512.6	481.1	475.5
40°	14838.3	12800.8	6283.4	2480.0	1212.2	631.1	579.6	531.1	498.3	466.8	458.2
42.5°	15704.9	13488.9	6417.6	2495.6	1177.9	628.2	564.0	519.7	488.3	454.1	445.5
45°	16345.9	14065.8	6561.8	2519.9	1143.6	639.7	564.0	518.2	479.8	446.8	438.4
47.5°	16918.4	14742.5	6803.0	2519.9	1102.2	618.3	582.6	519.7	478.3	444.0	436.8
50°	17685.1	15670.7	7259.9	2461.4	1043.7	595.3	613.9	514.0	465.4	438.4	429.7
52.5°	18741.6	16859.8	7985.3	2359.9	953.7	551.1	609.6	511.1	452.6	424.0	413.9
55°	19990.8	18133.4	8776.1	2241.5	819.6	519.7	588.2	503.9	438.4	406.9	397.0
57.5°	20966.0	19010.0	9333.0	2058.7	702.5	502.5	521.0	496.9	421.1	388.3	379.8
60°	21354.2	18975.7	9485.7	1814.7	645.3	488.3	455.4	556.8	406.9	374.1	364.1
62.5°	21144.5	18099.1	9057.4	1643.3	632.4	469.8	426.9	515.4	395.4	364.1	349.8
65°	20175.0	16545.8	7922.4	1597.6	669.5	451.2	408.3	404.1	379.8	349.8	335.4
67.5°	18063.5	14224.3	6343.3	1601.9	716.7	432.7	389.8	369.8	358.3	334.1	321.2
70°	14712.6	11246.2	4728.6	1613.4	741.0	411.2	369.8	348.4	335.4	311.3	302.6
72.5°	10817.7	8667.7	3435.1	1539.1	745.2	386.9	342.7	324.1	311.3	285.5	278.5
75°	7401.2	6630.3	2382.8	1275.0	649.7	352.7	312.7	295.5	287.0	255.6	251.3
77.5°	5406.8	4977.0	1524.9	946.5	501.2	309.8	275.5	262.8	256.9	222.7	217.0
80°	4338.9	3937.6	953.7	648.1	366.9	259.8	231.4	224.1	218.5	184.2	179.9
82.5°	3009.6	2637.0	612.5	421.1	275.5	201.3	182.7	179.9	171.3	140.0	135.6
85°	1587.7	1432.0	388.3	287.0	200.0	138.5	127.1	127.1	122.8	92.9	89.9
87.5°	202.7	329.8	197.0	149.8	110.0	61.4	61.4	59.9	64.3	52.8	45.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7
2.5°	7091.5	7160.0	7094.4	7098.5	7171.3	7388.4	7487.0	7568.3	7655.4	7712.5	7738.2
5°	5139.7	5299.7	5353.9	5468.2	5636.7	5913.6	6023.6	6103.4	6156.4	6187.7	6200.6
7.5°	3515.1	3612.2	3720.6	3904.8	4271.7	4434.5	4507.2	4488.7	4428.7	4407.4	4386.0
10°	2649.8	2611.4	2591.3	2692.7	2989.6	3153.8	3205.2	3155.2	3122.4	3129.5	3165.3
12.5°	2053.0	1986.0	1904.5	1893.2	2088.7	2235.8	2268.6	2271.5	2331.5	2384.3	2462.9
15°	1496.2	1489.1	1449.1	1424.8	1536.2	1656.1	1670.4	1696.1	1750.3	1789.0	1857.4
17.5°	1055.1	1093.6	1125.0	1140.8	1225.0	1310.6	1294.9	1282.2	1272.1	1272.1	1305.0
20°	851.0	876.7	916.6	962.3	1048.0	1107.9	1069.3	1018.0	980.8	969.5	973.8
22.5°	766.7	786.6	809.6	849.4	926.6	968.1	926.6	889.4	852.3	839.5	835.2
25°	723.9	749.5	770.9	801.0	858.1	886.5	846.7	819.6	796.6	780.9	769.6
27.5°	699.6	722.4	728.2	742.4	791.0	816.6	796.6	785.3	770.9	756.7	742.4
30°	673.9	669.5	659.5	661.1	699.6	725.3	723.9	726.6	725.3	721.0	718.1
32.5°	615.3	606.7	598.2	606.7	642.5	665.4	666.7	672.4	672.4	671.0	682.4
35°	512.6	528.3	538.3	564.0	606.7	626.7	618.3	603.9	578.1	562.5	561.1
37.5°	473.9	476.9	494.0	529.7	576.8	595.3	582.6	549.7	532.5	529.7	534.0
40°	455.4	458.2	468.2	501.2	548.2	566.8	555.4	531.1	515.4	514.0	521.0
42.5°	442.5	445.5	451.2	473.9	512.6	535.4	536.7	519.7	501.2	502.5	509.7
45°	435.5	436.8	435.5	446.8	482.6	509.7	521.0	509.7	494.0	496.9	505.3
47.5°	434.1	429.7	424.0	426.9	464.1	491.2	505.3	501.2	494.0	496.9	503.9
50°	428.3	418.3	411.2	409.7	446.8	475.5	488.3	488.3	491.2	496.9	503.9
52.5°	411.2	399.7	399.7	395.4	435.5	462.5	471.2	472.6	476.9	486.8	496.9
55°	389.8	385.6	389.8	382.6	426.9	452.6	456.9	459.8	462.5	471.2	485.4
57.5°	371.2	365.5	375.5	372.6	419.8	442.5	442.5	448.3	448.3	459.8	471.2
60°	361.2	349.8	354.1	356.9	409.7	434.1	431.1	436.8	439.7	449.7	458.2
62.5°	348.4	338.4	338.4	345.5	398.3	421.1	419.8	424.0	435.5	438.4	446.8
65°	332.6	328.4	324.1	332.6	386.9	406.9	408.3	413.9	424.0	426.9	434.1
67.5°	316.9	318.4	309.8	318.4	376.8	392.6	392.6	404.1	408.3	413.9	421.1
70°	299.9	301.2	294.1	304.0	369.8	376.8	375.5	391.2	394.0	398.3	405.5
72.5°	278.5	278.5	275.5	289.9	358.3	361.2	358.3	371.2	372.6	376.8	379.8
75°	255.6	255.6	252.8	272.6	351.1	344.1	335.4	345.5	348.4	351.1	351.1
77.5°	225.6	228.3	228.3	252.8	327.0	337.0	308.4	314.0	318.4	319.7	315.6
80°	188.5	195.7	198.4	229.8	274.2	311.3	275.5	279.8	281.3	281.3	275.5
82.5°	144.2	157.1	164.2	198.4	209.8	261.2	239.8	244.1	239.8	231.4	228.3
85°	99.9	117.0	125.7	151.4	158.6	201.3	200.0	200.0	191.2	179.9	178.5
87.5°	54.3	64.3	70.0	89.9	108.5	135.6	147.1	142.8	135.6	128.5	130.0
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°	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7
2.5°	7872.3	8066.6	8376.3	8613.4	8851.8	9081.7	9330.1	9520.0	9681.4	9744.2	9935.4
5°	6330.4	6573.2	6865.8	7394.0	7768.3	8180.9	8657.7	9288.7	9531.5	9867.0	10416.6
7.5°	4475.9	4695.7	5167.0	5593.7	6123.4	6707.5	7351.3	8222.1	8540.5	9078.8	9974.1
10°	3342.2	3597.8	3976.2	4335.9	4802.8	5399.6	6139.1	7112.9	7499.8	8083.7	9114.6
12.5°	2692.7	2994.0	3395.1	3733.4	4094.7	4515.9	5234.1	6301.9	6820.2	7331.2	8373.6
15°	2068.7	2384.3	2756.9	3186.6	3585.0	4039.0	4791.4	5959.3	6556.1	7088.5	7978.0
17.5°	1432.0	1701.7	2171.6	2619.8	3129.5	3710.5	4668.6	6032.1	6744.6	7358.5	8046.6
20°	1015.2	1169.4	1554.7	2074.5	2709.7	3439.4	4645.8	6414.6	7341.3	8042.3	8486.3
22.5°	853.7	910.9	1135.0	1611.9	2345.7	3236.7	4725.8	6951.5	8146.5	9041.7	9187.3
25°	778.1	812.3	929.4	1265.0	2021.6	3089.6	4995.6	7751.0	9143.0	10041.2	10015.5
27.5°	736.7	772.5	849.4	1067.9	1777.4	2998.3	5265.4	8699.0	10282.4	11126.1	10806.4
30°	723.9	772.5	853.7	1006.6	1603.4	2853.9	5486.7	9531.5	11159.0	11858.5	11166.1
32.5°	713.9	721.0	758.1	868.0	1437.6	2685.6	5636.7	10278.0	12017.0	12555.3	11684.4
35°	576.8	612.5	672.4	778.1	1340.6	2584.2	5636.7	10922.0	12862.3	13259.2	12178.4
37.5°	555.4	586.9	639.7	729.6	1286.4	2534.2	5523.8	11543.1	13726.0	14057.2	12585.3
40°	544.0	569.6	619.7	692.5	1263.6	2477.0	5359.6	12091.2	14569.8	14856.8	12965.1
42.5°	535.4	558.2	605.4	669.5	1233.6	2414.3	5226.9	12531.0	15302.3	15539.2	13327.8
45°	531.1	555.4	606.7	681.0	1173.5	2331.5	5182.6	13006.5	15904.8	16108.9	13720.4
47.5°	531.1	559.6	613.9	705.3	1102.2	2245.9	5321.1	13633.2	16474.3	16574.4	14182.9
50°	526.9	558.2	633.9	681.0	997.9	2137.2	5646.6	14422.7	17091.2	17102.7	14768.2
52.5°	518.2	555.4	682.4	666.7	878.1	1994.4	6086.3	15436.5	18003.6	18072.0	15684.9
55°	508.4	551.1	669.5	633.9	779.5	1824.5	6446.1	16668.6	19285.5	19475.4	17032.7
57.5°	495.4	545.5	648.1	588.2	715.3	1606.2	6576.0	17570.8	20180.8	20657.7	18551.6
60°	483.9	541.0	585.3	561.1	675.3	1421.9	6324.7	17392.4	20119.3	21147.3	19898.0
62.5°	472.6	545.5	534.0	544.0	656.8	1303.5	5668.0	15963.3	19101.4	20642.0	20896.1
65°	459.8	506.9	503.9	529.7	652.4	1256.4	4698.7	13820.2	17134.0	19044.2	21131.5
67.5°	442.5	468.2	482.6	511.1	666.7	1215.0	3792.0	11400.3	14399.9	16649.9	19903.7
70°	424.0	445.5	461.2	488.3	658.2	1196.5	3153.8	8990.2	11426.0	13646.2	17480.9
72.5°	399.7	418.3	432.7	458.2	649.7	1186.4	2664.2	7239.9	8530.6	10136.7	14213.0
75°	371.2	388.3	398.3	424.0	622.4	1086.5	2094.5	6126.4	6383.3	7051.4	11320.4
77.5°	338.4	351.1	359.9	388.3	551.1	903.8	1514.8	4725.8	4957.0	5119.8	8679.1
80°	299.9	312.7	316.9	344.1	456.9	706.7	988.0	3490.8	3707.8	3744.9	5668.0
82.5°	255.6	268.5	268.5	294.1	374.1	508.4	648.1	2391.4	2434.2	2559.9	4006.3
85°	205.6	215.7	215.7	228.3	289.9	379.8	445.5	1200.8	1187.9	1356.4	3470.8
87.5°	147.1	154.1	161.3	164.2	207.0	251.3	268.5	365.5	241.3	276.9	2228.7
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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CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7	8774.7
2.5°	10079.6	10161.1	10078.3	10018.3	9759.8	9547.1	9263.1	9117.3
5°	10834.9	11042.0	10972.0	10720.7	10181.0	9574.2	8884.6	8573.5
7.5°	10743.5	11224.7	11236.1	10766.4	9971.1	9077.5	8143.7	7701.1
10°	10032.5	10647.9	10823.5	10368.1	9524.3	8524.8	7454.0	6948.7
12.5°	9238.8	9841.2	9975.5	9818.4	9113.0	8109.4	7022.9	6527.5
15°	8589.1	8858.9	9018.9	9156.0	8760.5	7943.8	6998.6	6454.7
17.5°	8193.6	8163.6	8209.3	8447.8	8514.9	8133.8	7369.9	6770.3
20°	8050.9	7592.6	7581.2	7909.5	8399.2	8586.3	8095.2	7375.5
22.5°	8129.4	7387.0	7292.8	7682.6	8460.6	9238.8	9046.0	8225.1
25°	8400.7	7404.1	7328.5	7705.4	8683.3	9934.0	10072.5	9324.3
27.5°	8827.6	7512.6	7412.8	7799.7	8978.9	10518.0	11083.4	10389.4
30°	9233.0	7701.1	7576.8	7985.3	9248.7	10749.3	11702.9	11220.4
32.5°	9725.6	8053.8	7835.2	8326.4	9582.8	11117.7	12255.4	11908.6
35°	10208.2	8556.3	8285.0	8853.2	9955.5	11575.9	12886.5	12788.0
37.5°	10737.8	9213.0	8988.9	9534.3	10465.2	12008.5	13691.7	13818.8
40°	11303.3	10084.0	9818.4	10528.0	11256.1	12550.9	14532.7	14838.3
42.5°	11872.9	11050.5	10733.6	11453.1	12125.6	13086.4	15252.2	15704.9
45°	12525.3	12099.9	11950.0	12728.1	12960.7	13596.0	15783.4	16345.9
47.5°	13284.9	13290.7	13531.9	13843.2	13803.1	14172.9	16317.4	16918.4
50°	14171.5	14776.8	15309.4	15516.5	14671.2	14792.5	17058.4	17685.1
52.5°	15236.5	16554.3	17214.0	17078.2	15606.3	15549.2	18231.9	18741.6
55°	16568.6	18436.0	19091.4	18994.3	16681.3	16580.0	19693.9	19990.8
57.5°	18110.5	20259.3	20861.8	20424.9	17972.1	17710.9	20903.2	20966.0
60°	19465.5	21704.0	22232.3	21748.3	19274.2	18914.4	21658.5	21354.2
62.5°	20219.3	22193.9	22565.1	22043.9	20166.5	20196.5	21824.1	21144.5
65°	19882.4	20956.0	21075.9	21033.0	19936.7	20940.3	21228.7	20175.0
67.5°	18037.7	17826.4	18027.7	18306.1	17966.3	19960.9	19579.6	18063.5
70°	14788.3	13627.5	14028.7	14215.8	14369.9	17176.9	16994.0	14712.6
72.5°	11144.7	9547.1	9864.1	9825.5	10539.4	13777.5	13216.4	10817.7
75°	7896.7	6473.2	6513.3	6497.5	7354.2	10779.2	9570.0	7401.2
77.5°	5525.2	4690.1	4711.5	4800.0	4944.2	8129.4	6837.3	5406.8
80°	3799.1	3559.3	3677.8	3684.9	3426.6	5460.9	5051.3	4338.9
82.5°	2829.8	2474.2	2445.6	2487.0	2685.6	4424.5	3881.9	3009.6
85°	2317.2	1464.9	1177.9	1476.3	2380.0	4381.7	2578.4	1587.7
87.5°	1305.0	695.3	314.0	582.6	949.4	2901.2	745.2	202.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)