

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: P193874

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193874  
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-06-LED-E1-SLR-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 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: 25529 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

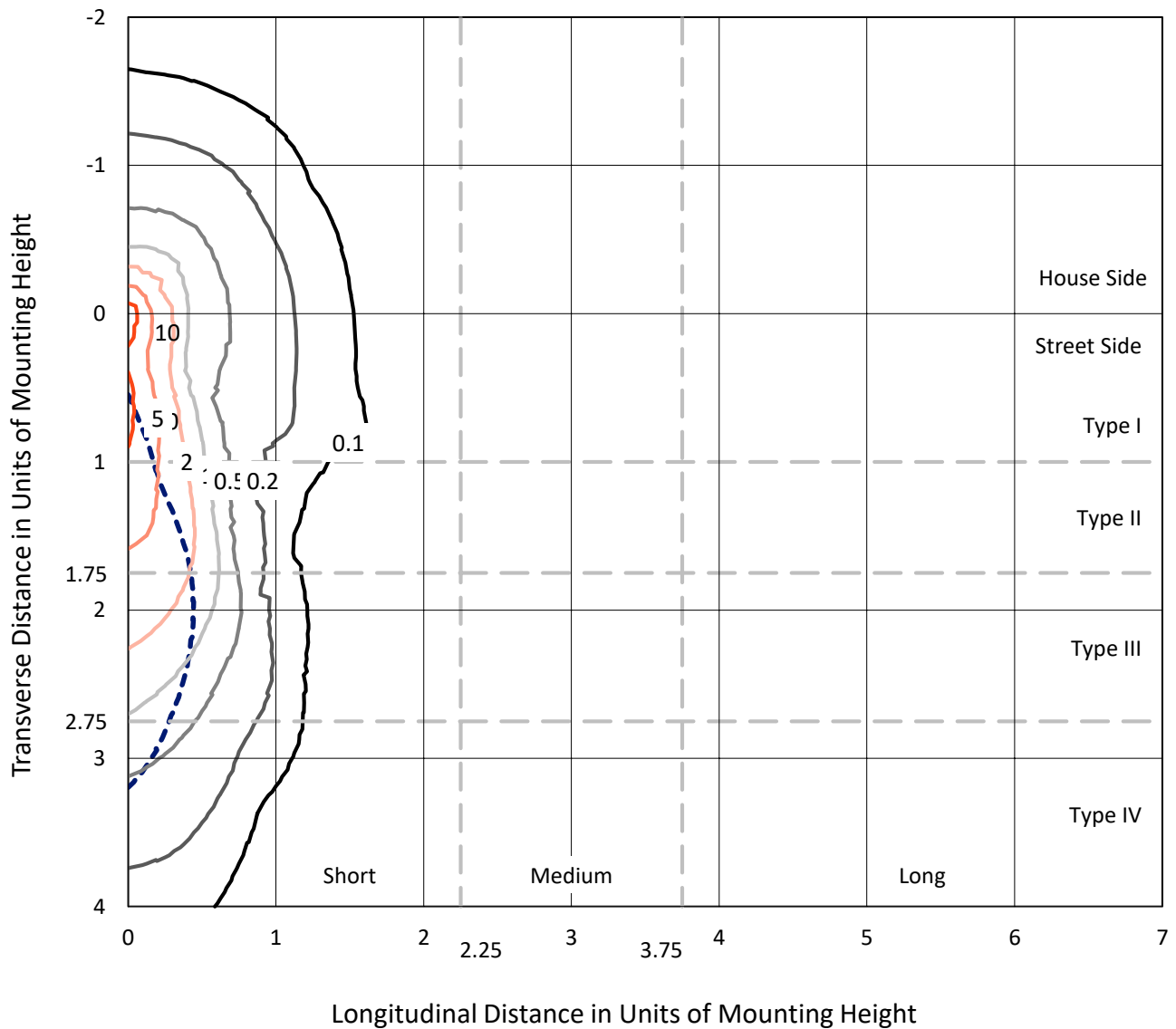
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

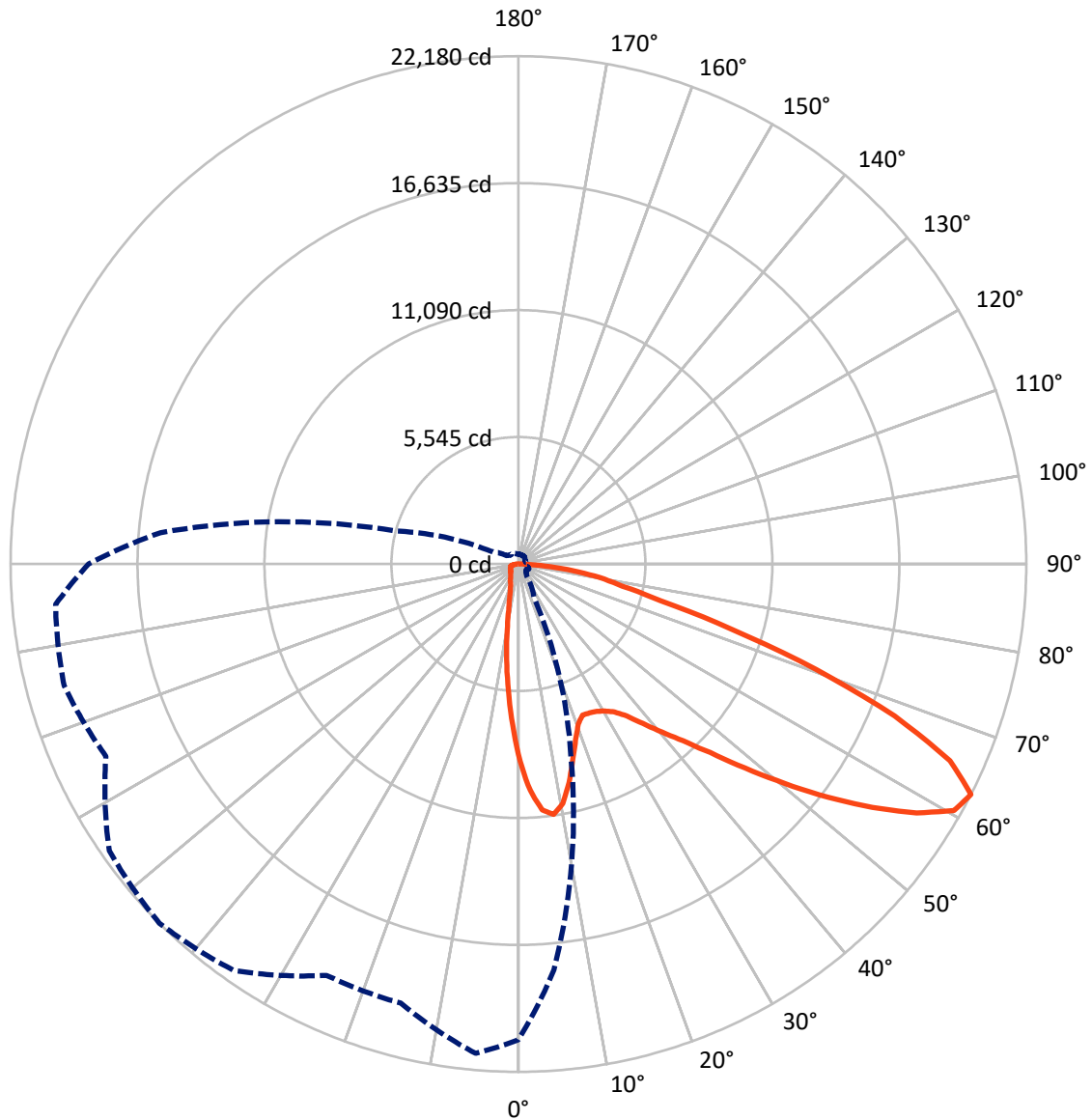
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	4224.7	0.0	4224.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	21304.3	0.0	21304.3
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	25529.0	0.0	25529.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.9	2.5
10°-20°	1151.3	4.5
20°-30°	1678.6	6.6
30°-40°	2585.4	10.1
40°-50°	3805.0	14.9
50°-60°	5581.1	21.9
60°-70°	6238.8	24.4
70°-80°	3054.4	12.0
80°-90°	806.4	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°	25529.0	100.0
0°-180°	25529.0	100.0



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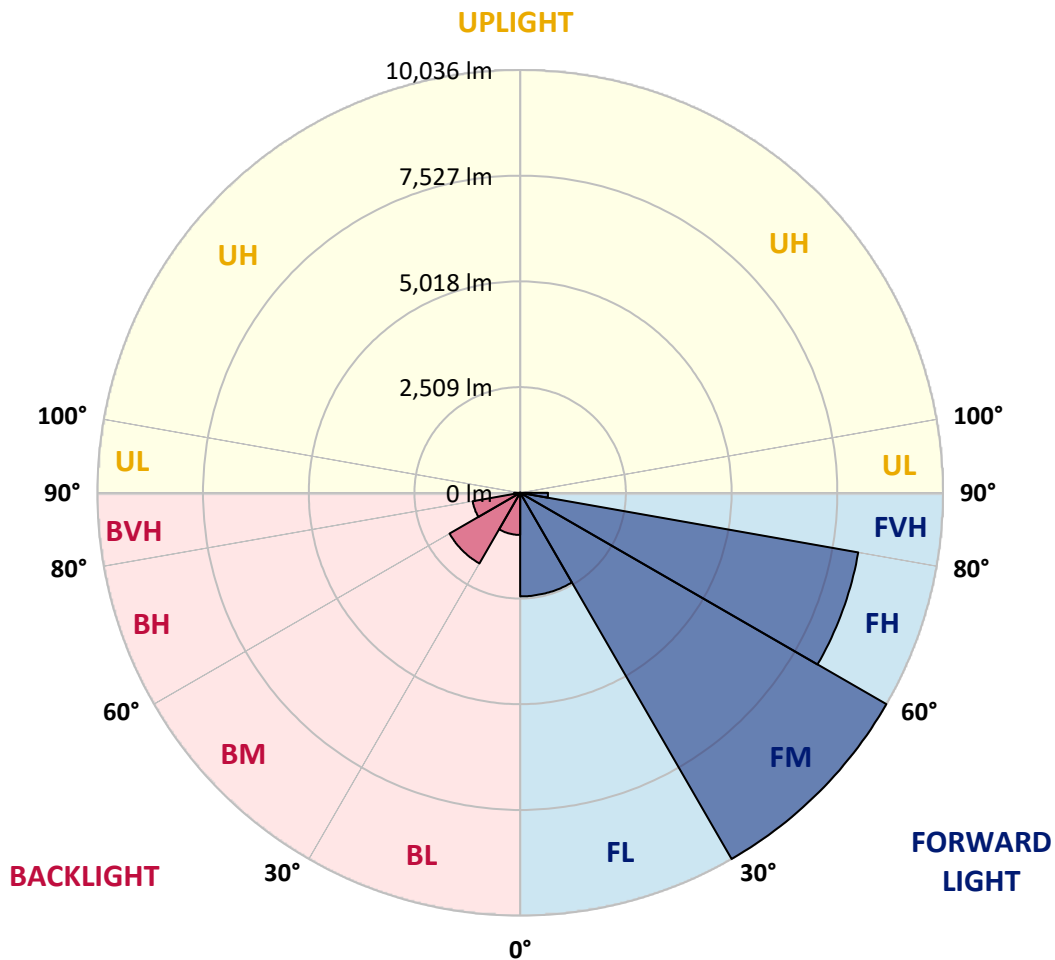
CATALOG NUMBER: GLEON-AF-06-LED-E1-SLR-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2458.4	9.6			
FM	(30°-60°)	10035.7	39.3			
FH	(60°-80°)	8148.0	31.9			G4/12000
FVH	(80°-90°)	662.3	2.6			G4/750
BL	(0°-30°)	999.5	3.9	B2/1000		
BM	(30°-60°)	1935.7	7.6	B2/2500		
BH	(60°-80°)	1145.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	144.2	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°	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1
2.5°	8961.9	8779.4	8476.3	8160.6	7968.3	7743.8	7568.3	7414.0	7105.2	7044.9	7099.6
5°	8427.2	8060.9	7489.8	6914.4	6531.3	6120.1	5800.1	5543.3	5151.7	5083.0	5165.8
7.5°	7569.7	7131.9	6376.9	5642.9	5101.2	4587.6	4242.4	3967.3	3661.4	3529.5	3537.9
10°	6830.2	6336.2	5443.6	4645.1	4201.7	3855.0	3564.5	3282.5	2972.3	2768.8	2712.7
12.5°	6416.2	5847.8	4819.1	4106.2	3695.1	3330.2	3017.2	2715.5	2384.3	2176.6	2117.7
15°	6344.6	5727.1	4584.8	3761.0	3246.0	2784.3	2415.2	2078.4	1737.4	1569.0	1533.9
17.5°	6654.7	5943.2	4509.0	3453.7	2823.6	2253.8	1800.5	1424.4	1146.5	1062.3	1055.3
20°	7249.8	6358.6	4499.2	3164.6	2406.8	1738.8	1254.6	981.0	858.9	835.0	836.4
22.5°	8084.8	7002.8	4619.9	2947.1	2023.7	1296.7	943.1	821.0	773.3	750.8	750.8
25°	9165.4	7889.7	4897.7	2788.5	1691.1	1035.7	832.2	759.2	714.3	698.9	701.7
27.5°	10212.3	8752.8	5220.5	2663.6	1473.5	940.3	788.7	722.7	683.4	668.0	675.0
30°	11029.0	9519.0	5490.0	2493.8	1362.7	913.6	804.1	736.8	680.6	656.8	658.2
32.5°	11705.5	10189.8	5715.9	2371.7	1264.4	783.1	693.3	663.8	656.8	628.7	614.7
35°	12569.9	10921.0	5867.5	2374.5	1218.1	698.9	617.5	565.6	527.7	495.4	495.4
37.5°	13583.2	11760.2	6028.8	2406.8	1201.3	649.8	590.8	538.9	503.8	472.9	467.3
40°	14585.2	12582.6	6176.2	2437.6	1191.5	620.3	569.8	522.1	489.8	458.9	450.5
42.5°	15437.0	13259.0	6308.1	2453.1	1157.8	617.5	554.3	510.8	480.0	446.3	437.8
45°	16067.1	13825.9	6449.9	2476.9	1124.1	628.7	554.3	509.4	471.5	439.3	430.8
47.5°	16629.9	14491.1	6687.0	2476.9	1083.4	607.7	572.6	510.8	470.1	436.4	429.4
50°	17383.5	15403.3	7136.1	2419.4	1025.9	585.2	603.4	505.2	457.5	430.8	422.4
52.5°	18422.0	16572.3	7849.0	2319.8	937.4	541.7	599.2	502.4	444.9	416.8	407.0
55°	19649.9	17824.1	8626.5	2203.3	805.5	510.8	578.2	495.4	430.8	400.0	390.1
57.5°	20608.4	18685.8	9173.8	2023.7	690.5	494.0	512.2	488.4	414.0	381.7	373.3
60°	20990.1	18652.1	9323.9	1783.7	634.3	480.0	447.7	547.3	400.0	367.7	357.9
62.5°	20783.8	17790.4	8902.9	1615.3	621.7	461.7	419.6	506.6	388.7	357.9	343.8
65°	19830.9	16263.6	7787.3	1570.4	658.2	443.5	401.4	397.2	373.3	343.8	329.8
67.5°	17755.4	13981.7	6235.1	1574.6	704.5	425.2	383.1	363.5	352.2	328.4	315.8
70°	14461.7	11054.3	4647.9	1585.8	728.3	404.2	363.5	342.4	329.8	305.9	297.5
72.5°	10633.3	8519.8	3376.5	1512.8	732.6	380.3	336.8	318.6	305.9	280.7	273.7
75°	7275.0	6517.2	2342.2	1253.2	638.5	346.6	307.3	290.5	282.1	251.2	247.0
77.5°	5314.5	4892.1	1498.8	930.4	492.6	304.5	270.8	258.2	252.6	218.9	213.3
80°	4264.8	3870.5	937.4	637.1	360.7	255.4	227.3	220.3	214.7	181.0	176.8
82.5°	2958.3	2592.0	602.0	414.0	270.8	197.9	179.6	176.8	168.4	137.5	133.3
85°	1560.5	1407.6	381.7	282.1	196.5	136.1	124.9	124.9	120.7	91.2	88.4
87.5°	199.3	324.2	193.7	147.4	108.1	60.3	60.3	58.9	63.2	51.9	44.9
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°	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1
2.5°	6970.5	7037.9	6973.3	6977.5	7049.1	7262.4	7359.2	7439.2	7524.8	7581.0	7606.2
5°	5052.1	5209.3	5262.6	5374.9	5540.5	5812.7	5920.8	5999.4	6051.3	6082.2	6094.8
7.5°	3455.1	3550.5	3657.2	3838.2	4198.9	4358.8	4430.4	4412.2	4353.2	4332.2	4311.1
10°	2604.6	2566.8	2547.1	2646.7	2938.6	3100.0	3150.6	3101.4	3069.2	3076.2	3111.3
12.5°	2018.0	1952.1	1872.1	1860.9	2053.1	2197.7	2229.9	2232.8	2291.7	2343.6	2420.8
15°	1470.7	1463.7	1424.4	1400.6	1510.0	1627.9	1641.9	1667.2	1720.5	1758.4	1825.8
17.5°	1037.1	1075.0	1105.9	1121.3	1204.1	1288.3	1272.9	1260.2	1250.4	1250.4	1282.7
20°	836.4	861.7	901.0	945.9	1030.1	1089.0	1051.1	1000.6	964.1	952.9	957.1
22.5°	753.6	773.3	795.7	835.0	910.8	951.5	910.8	874.3	837.8	825.2	821.0
25°	711.5	736.8	757.8	787.3	843.4	871.5	832.2	805.5	783.1	767.6	756.4
27.5°	687.6	710.1	715.7	729.7	777.5	802.7	783.1	771.8	757.8	743.8	729.7
30°	662.4	658.2	648.4	649.8	687.6	712.9	711.5	714.3	712.9	708.7	705.9
32.5°	604.8	596.4	588.0	596.4	631.5	654.0	655.4	661.0	661.0	659.6	670.8
35°	503.8	519.2	529.1	554.3	596.4	616.1	607.7	593.6	568.4	552.9	551.5
37.5°	465.9	468.7	485.6	520.6	567.0	585.2	572.6	540.3	523.5	520.6	524.9
40°	447.7	450.5	460.3	492.6	538.9	557.1	545.9	522.1	506.6	505.2	512.2
42.5°	435.0	437.8	443.5	465.9	503.8	526.3	527.7	510.8	492.6	494.0	501.0
45°	428.0	429.4	428.0	439.3	474.3	501.0	512.2	501.0	485.6	488.4	496.8
47.5°	426.6	422.4	416.8	419.6	456.1	482.8	496.8	492.6	485.6	488.4	495.4
50°	421.0	411.2	404.2	402.8	439.3	467.3	480.0	480.0	482.8	488.4	495.4
52.5°	404.2	392.9	392.9	388.7	428.0	454.7	463.1	464.5	468.7	478.5	488.4
55°	383.1	378.9	383.1	376.1	419.6	444.9	449.1	451.9	454.7	463.1	477.1
57.5°	364.9	359.3	369.1	366.3	412.6	435.0	435.0	440.7	440.7	451.9	463.1
60°	355.1	343.8	348.0	350.8	402.8	426.6	423.8	429.4	432.2	442.1	450.5
62.5°	342.4	332.6	332.6	339.6	391.5	414.0	412.6	416.8	428.0	430.8	439.3
65°	327.0	322.8	318.6	327.0	380.3	400.0	401.4	407.0	416.8	419.6	426.6
67.5°	311.5	313.0	304.5	313.0	370.5	385.9	385.9	397.2	401.4	407.0	414.0
70°	294.7	296.1	289.1	298.9	363.5	370.5	369.1	384.5	387.3	391.5	398.6
72.5°	273.7	273.7	270.8	284.9	352.2	355.1	352.2	364.9	366.3	370.5	373.3
75°	251.2	251.2	248.4	268.0	345.2	338.2	329.8	339.6	342.4	345.2	345.2
77.5°	221.7	224.5	224.5	248.4	321.4	331.2	303.1	308.7	313.0	314.4	310.1
80°	185.2	192.3	195.1	225.9	269.4	305.9	270.8	275.1	276.5	276.5	270.8
82.5°	141.7	154.4	161.4	195.1	206.3	256.8	235.8	240.0	235.8	227.3	224.5
85°	98.2	115.1	123.5	148.8	155.8	197.9	196.5	196.5	188.1	176.8	175.4
87.5°	53.3	63.2	68.8	88.4	106.7	133.3	144.5	140.3	133.3	126.3	127.7
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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**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1
2.5°	7738.1	7929.0	8233.5	8466.5	8700.9	8926.8	9171.0	9357.6	9516.2	9578.0	9766.0
5°	6222.5	6461.1	6748.8	7268.0	7635.7	8041.3	8510.0	9130.3	9368.9	9698.6	10238.9
7.5°	4399.5	4615.7	5078.8	5498.4	6019.0	6593.0	7225.9	8082.0	8394.9	8924.0	9803.9
10°	3285.3	3536.5	3908.4	4262.0	4720.9	5307.5	6034.5	6991.6	7371.9	7945.8	8959.1
12.5°	2646.7	2942.9	3337.2	3669.8	4024.8	4438.8	5144.7	6194.4	6703.9	7206.3	8230.7
15°	2033.5	2343.6	2709.9	3132.3	3523.8	3970.1	4709.7	5857.6	6444.2	6967.7	7842.0
17.5°	1407.6	1672.8	2134.5	2575.2	3076.2	3647.3	4589.0	5929.2	6629.5	7232.9	7909.4
20°	997.8	1149.4	1528.3	2039.1	2663.6	3380.7	4566.5	6305.3	7216.1	7905.1	8341.6
22.5°	839.2	895.3	1115.7	1584.4	2305.7	3181.4	4645.1	6833.0	8007.6	8887.5	9030.6
25°	764.8	798.5	913.6	1243.4	1987.2	3036.9	4910.4	7618.9	8987.1	9869.9	9844.6
27.5°	724.1	759.2	835.0	1049.7	1747.2	2947.1	5175.6	8550.7	10107.0	10936.4	10622.1
30°	711.5	759.2	839.2	989.4	1576.0	2805.3	5393.1	9368.9	10968.7	11656.3	10975.7
32.5°	701.7	708.7	745.2	853.2	1413.2	2639.7	5540.5	10102.8	11812.1	12341.2	11485.1
35°	567.0	602.0	661.0	764.8	1317.8	2540.1	5540.5	10735.7	12642.9	13033.0	11970.7
37.5°	545.9	576.8	628.7	717.1	1264.4	2491.0	5429.6	11346.2	13491.9	13817.5	12370.6
40°	534.7	559.9	609.1	680.6	1242.0	2434.8	5268.2	11885.1	14321.3	14603.4	12743.9
42.5°	526.3	548.7	595.0	658.2	1212.5	2373.1	5137.7	12317.3	15041.2	15274.2	13100.4
45°	522.1	545.9	596.4	669.4	1153.6	2291.7	5094.2	12784.6	15633.5	15834.1	13486.3
47.5°	522.1	550.1	603.4	693.3	1083.4	2207.5	5230.3	13400.7	16193.4	16291.6	13941.0
50°	517.8	548.7	623.1	669.4	981.0	2100.8	5550.3	14176.8	16799.7	16810.9	14516.4
52.5°	509.4	545.9	670.8	655.4	863.1	1960.5	5982.5	15173.2	17696.4	17763.8	15417.4
55°	499.6	541.7	658.2	623.1	766.2	1793.5	6336.2	16384.3	18956.6	19143.3	16742.1
57.5°	487.0	536.1	637.1	578.2	703.1	1578.8	6463.9	17271.2	19836.5	20305.3	18235.3
60°	475.7	531.9	575.4	551.5	663.8	1397.7	6216.9	17095.8	19776.2	20786.6	19558.7
62.5°	464.5	536.1	524.9	534.7	645.5	1281.3	5571.4	15691.0	18775.6	20289.8	20539.6
65°	451.9	498.2	495.4	520.6	641.3	1235.0	4618.5	13584.6	16841.8	18719.5	20771.2
67.5°	435.0	460.3	474.3	502.4	655.4	1194.3	3727.3	11205.9	14154.3	16366.0	19564.3
70°	416.8	437.8	453.3	480.0	647.0	1176.0	3100.0	8837.0	11231.1	13413.3	17182.8
72.5°	392.9	411.2	425.2	450.5	638.5	1166.2	2618.7	7116.5	8385.1	9963.9	13970.5
75°	364.9	381.7	391.5	416.8	611.9	1068.0	2058.7	6021.8	6274.4	6931.2	11127.3
77.5°	332.6	345.2	353.6	381.7	541.7	888.3	1489.0	4645.1	4872.5	5032.5	8531.0
80°	294.7	307.3	311.5	338.2	449.1	694.7	971.1	3431.2	3644.5	3681.0	5571.4
82.5°	251.2	263.8	263.8	289.1	367.7	499.6	637.1	2350.6	2392.7	2516.2	3937.8
85°	202.1	211.9	211.9	224.5	284.9	373.3	437.8	1180.2	1167.6	1333.2	3411.6
87.5°	144.5	151.6	158.6	161.4	203.5	247.0	263.8	359.3	237.2	272.3	2190.7
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-06-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1	8625.1
2.5°	9907.7	9987.7	9906.3	9847.4	9593.4	9384.3	9105.0	8961.9
5°	10650.1	10853.6	10784.8	10537.9	10007.4	9411.0	8733.1	8427.2
7.5°	10560.3	11033.2	11044.5	10582.8	9801.1	8922.6	8004.8	7569.7
10°	9861.4	10466.3	10638.9	10191.2	9361.8	8379.5	7327.0	6830.2
12.5°	9081.2	9673.4	9805.3	9650.9	8957.7	7971.1	6903.1	6416.2
15°	8442.6	8707.9	8865.0	8999.8	8611.0	7808.3	6879.3	6344.6
17.5°	8053.9	8024.4	8069.3	8303.7	8369.7	7995.0	7244.2	6654.7
20°	7913.6	7463.1	7451.9	7774.6	8256.0	8439.8	7957.1	7249.8
22.5°	7990.8	7261.0	7168.4	7551.5	8316.3	9081.2	8891.7	8084.8
25°	8257.4	7277.8	7203.5	7574.0	8535.3	9764.6	9900.7	9165.4
27.5°	8677.0	7384.5	7286.3	7666.6	8825.8	10338.6	10894.3	10212.3
30°	9075.6	7569.7	7447.6	7849.0	9091.0	10565.9	11503.4	11029.0
32.5°	9559.7	7916.4	7701.7	8184.4	9419.4	10928.0	12046.5	11705.5
35°	10034.0	8410.4	8143.7	8702.3	9785.7	11378.5	12666.8	12569.9
37.5°	10554.7	9055.9	8835.6	9371.7	10286.7	11803.7	13458.3	13583.2
40°	11110.4	9912.0	9650.9	10348.4	11064.1	12337.0	14284.8	14585.2
42.5°	11670.4	10862.0	10550.5	11257.8	11918.8	12863.2	14992.1	15437.0
45°	12311.7	11893.5	11746.2	12511.0	12739.7	13364.2	15514.2	16067.1
47.5°	13058.3	13063.9	13301.1	13607.0	13567.7	13931.2	16039.0	16629.9
50°	13929.8	14524.8	15048.3	15251.8	14421.0	14540.2	16767.4	17383.5
52.5°	14976.7	16272.0	16920.4	16787.0	15340.2	15284.0	17921.0	18422.0
55°	16286.0	18121.6	18765.8	18670.3	16396.9	16297.3	19358.0	19649.9
57.5°	17801.7	19913.7	20505.9	20076.5	17665.5	17408.7	20546.6	20608.4
60°	19133.5	21333.9	21853.2	21377.4	18945.4	18591.8	21289.0	20990.1
62.5°	19874.4	21815.3	22180.2	21667.9	19822.5	19852.0	21451.8	20783.8
65°	19543.2	20598.6	20716.5	20674.3	19596.6	20583.1	20866.6	19830.9
67.5°	17730.1	17522.4	17720.3	17993.9	17659.9	19620.4	19245.7	17755.4
70°	14536.0	13395.1	13789.4	13973.3	14124.9	16883.9	16704.2	14461.7
72.5°	10954.7	9384.3	9695.8	9657.9	10359.6	13542.5	12990.9	10633.3
75°	7762.0	6362.8	6402.1	6386.7	7228.7	10595.4	9406.7	7275.0
77.5°	5431.0	4610.0	4631.1	4718.1	4859.8	7990.8	6720.7	5314.5
80°	3734.3	3498.6	3615.1	3622.1	3368.1	5367.9	4965.1	4264.8
82.5°	2781.5	2432.0	2404.0	2444.7	2639.7	4349.0	3815.7	2958.3
85°	2277.7	1439.9	1157.8	1451.1	2339.4	4306.9	2534.5	1560.5
87.5°	1282.7	683.4	308.7	572.6	933.2	2851.6	732.6	199.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)