

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: P193825

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193825  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 800mA 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: 24394 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

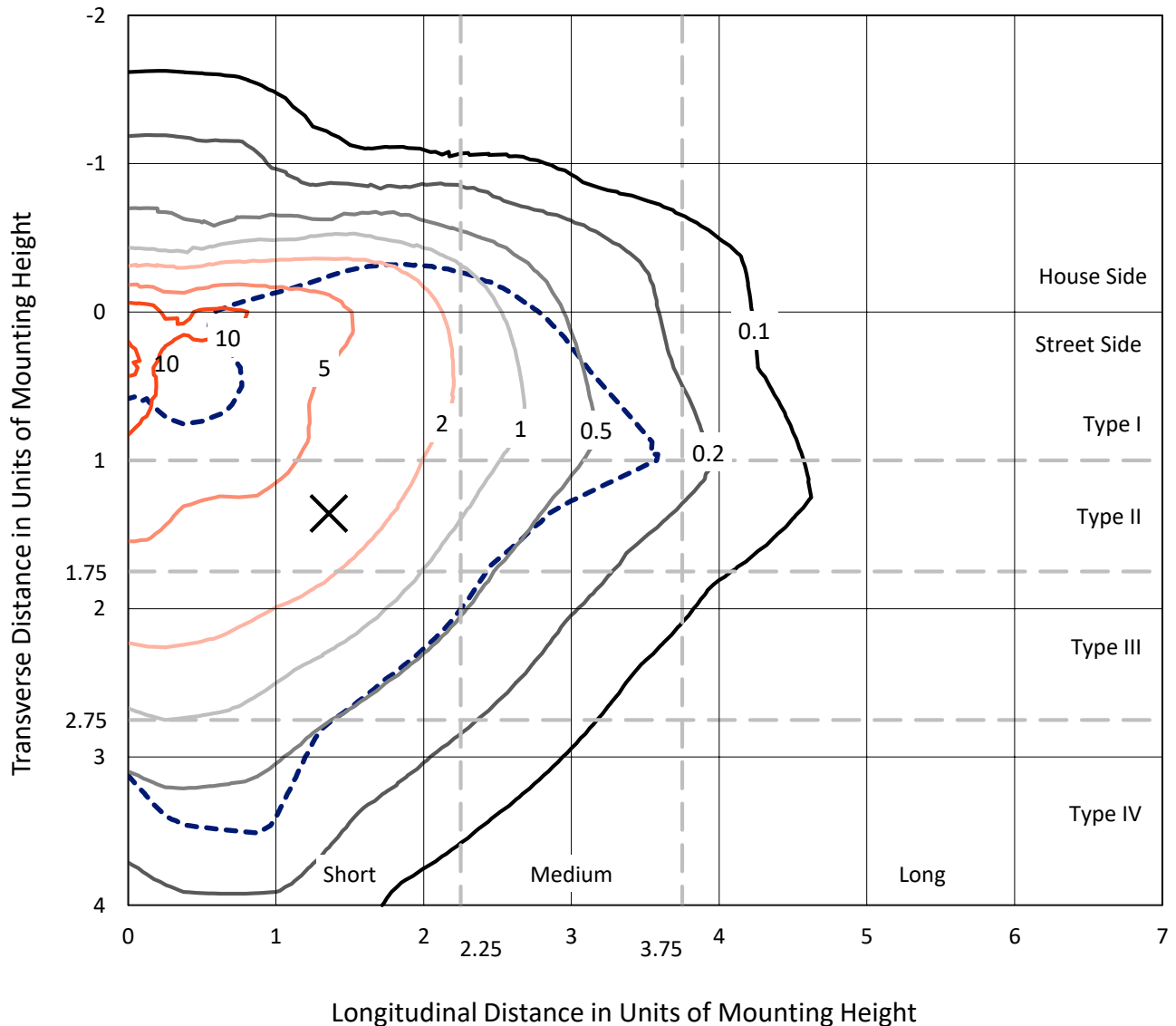
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

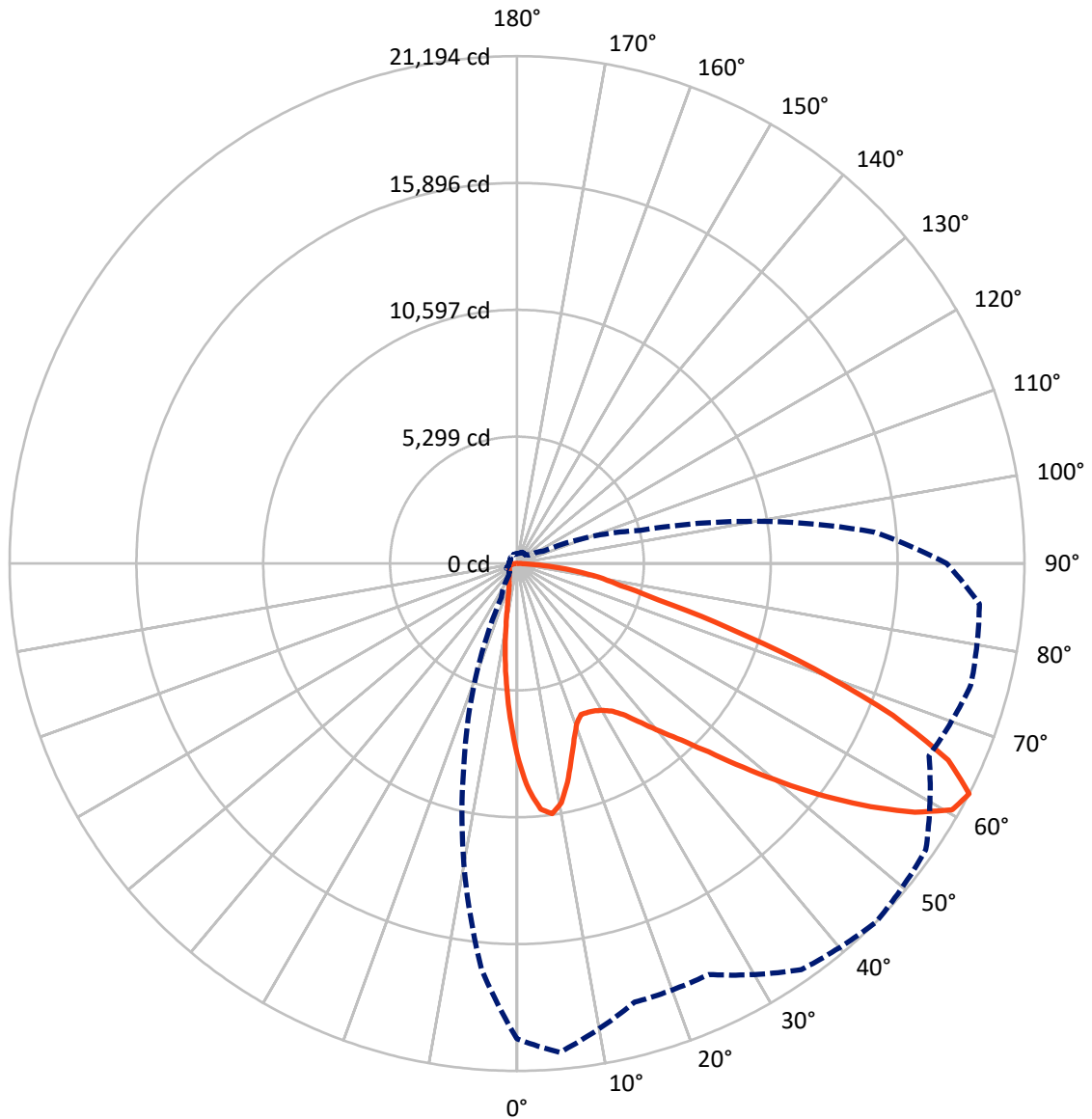
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	4036.9	0.0	4036.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20357.1	0.0	20357.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	24394.0	0.0	24394.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.0	2.5
10°-20°	1100.2	4.5
20°-30°	1604.0	6.6
30°-40°	2470.4	10.1
40°-50°	3635.8	14.9
50°-60°	5333.0	21.9
60°-70°	5961.5	24.4
70°-80°	2918.7	12.0
80°-90°	770.6	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°	24394.0	100.0
0°-180°	24394.0	100.0



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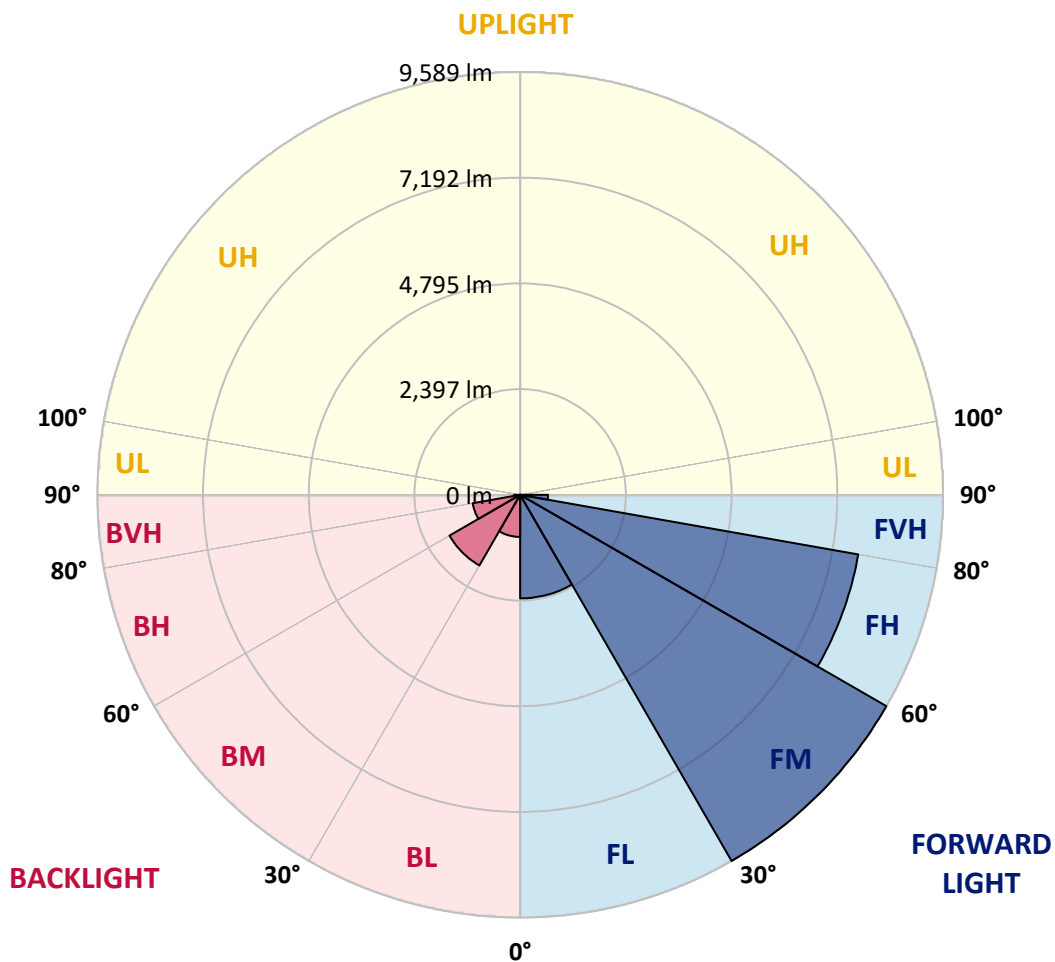
CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-8030-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2349.1	9.6			
FM	(30°-60°)	9589.5	39.3			
FH	(60°-80°)	7785.7	31.9			G4/12000
FVH	(80°-90°)	632.8	2.6			G4/750
BL	(0°-30°)	955.1	3.9	B2/1000		
BM	(30°-60°)	1849.7	7.6	B2/2500		
BH	(60°-80°)	1094.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	137.7	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°	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6
2.5°	8563.4	8700.2	8967.1	9166.9	9409.6	9465.9	9543.7	9467.3	9331.8	9152.1	9093.1
5°	8052.5	8344.9	8992.6	9562.5	10069.4	10305.4	10371.1	10176.6	9783.7	9267.4	8952.3
7.5°	7233.2	7648.9	8525.9	9365.3	10112.3	10553.4	10542.7	10090.8	9368.0	8527.2	8021.7
10°	6526.5	7001.2	8006.9	8945.6	9738.1	10165.9	10001.0	9423.0	8560.8	7592.6	7044.1
12.5°	6130.9	6596.2	7616.7	8559.4	9221.9	9369.4	9243.3	8677.4	7864.8	6885.9	6405.8
15°	6062.5	6573.4	7461.2	8228.2	8599.6	8470.9	8320.7	8067.3	7493.3	6657.9	6157.7
17.5°	6358.9	6922.1	7639.5	7997.6	7934.5	7710.6	7667.7	7695.8	7557.7	6911.4	6334.7
20°	6927.5	7603.3	8064.6	7888.9	7429.0	7120.6	7131.3	7561.7	7970.7	7553.7	6895.3
22.5°	7725.3	8496.4	8677.4	7946.6	7215.8	6849.7	6938.2	7635.5	8629.1	8492.4	7651.6
25°	8757.9	9460.5	9330.5	8155.8	7237.2	6883.2	6954.3	7890.3	9406.9	9431.0	8587.6
27.5°	9758.2	10410.0	9878.9	8433.4	7325.7	6962.3	7056.2	8291.2	10149.8	10450.2	9657.7
30°	10538.7	10991.9	10096.2	8686.8	7500.1	7116.5	7233.2	8672.1	10487.7	11138.1	10481.0
32.5°	11185.0	11510.9	10442.1	9000.6	7820.5	7359.2	7564.4	9134.7	10974.5	11792.5	11287.0
35°	12011.1	12103.6	10872.6	9350.6	8315.4	7781.7	8036.4	9587.9	11438.5	12453.6	12080.8
37.5°	12979.3	12859.9	11278.9	9829.3	8955.0	8442.8	8653.3	10085.4	11820.7	13203.2	12892.1
40°	13936.7	13649.7	11788.5	10572.2	9888.3	9221.9	9471.3	10616.5	12177.4	13954.1	13684.6
42.5°	14750.7	14325.6	12291.3	11388.9	10757.3	10081.4	10379.1	11151.5	12518.0	14595.1	14372.5
45°	15352.8	14824.4	12770.1	12173.3	11954.8	11223.9	11364.7	11764.3	12886.7	15130.2	14938.4
47.5°	15890.5	15326.0	13311.8	12964.5	13002.1	12709.7	12483.1	12477.7	13321.2	15567.3	15473.5
50°	16610.6	16021.9	13893.8	13779.8	14573.7	14379.2	13879.0	13310.5	13871.0	16063.5	16052.8
52.5°	17602.9	17124.2	14604.5	14658.2	16040.7	16168.1	15548.6	14310.8	14731.9	16974.0	16909.6
55°	18776.3	18497.4	15572.7	15667.9	17840.3	17931.5	17316.0	15562.0	15997.8	18292.2	18113.8
57.5°	19692.2	19633.2	16634.7	16880.1	19183.9	19594.3	19028.4	17010.2	17424.6	19402.5	18954.6
60°	20056.9	20342.5	17765.2	18103.1	20427.0	20881.6	20385.4	18282.8	18689.1	19862.5	18897.0
62.5°	19859.8	20498.1	18969.4	18941.2	20704.6	21194.0	20845.4	18990.8	19626.5	19387.8	17940.8
65°	18949.3	19938.9	19668.0	18725.3	19755.2	19795.4	19682.8	18674.4	19847.7	17887.2	16093.0
67.5°	16966.0	18390.1	18748.1	16874.8	17193.9	16932.4	16743.4	16941.8	18694.5	15638.4	13525.0
70°	13818.7	15961.6	16133.2	13496.9	13352.0	13176.4	12799.6	13889.8	16418.8	12817.0	10731.8
72.5°	10160.5	12413.4	12940.4	9899.0	9228.6	9264.8	8967.1	10467.6	13349.4	9520.9	8012.3
75°	6951.6	8988.5	10124.3	6907.3	6102.8	6117.5	6080.0	7416.9	10632.6	6623.1	5995.5
77.5°	5078.3	6421.9	7635.5	4643.8	4508.3	4425.2	4405.1	5189.6	8151.8	4808.7	4655.9
80°	4075.2	4744.4	5129.2	3218.3	3461.0	3454.3	3343.0	3568.3	5323.7	3517.4	3482.5
82.5°	2826.8	3646.1	4155.7	2522.4	2336.0	2297.1	2323.9	2657.8	3762.8	2404.4	2286.4
85°	1491.2	2421.8	4115.4	2235.4	1386.6	1106.3	1375.8	2176.4	3259.9	1273.9	1115.7
87.5°	190.4	700.0	2724.9	891.7	547.1	295.0	653.1	1225.6	2093.3	260.1	226.6
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°	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6
2.5°	8941.6	8763.2	8529.9	8314.0	8090.1	7867.5	7576.5	7394.1	7268.1	7243.9	7190.3
5°	8724.4	8131.6	7683.8	7296.2	6944.9	6448.7	6173.8	5945.9	5823.8	5811.8	5782.3
7.5°	7722.7	6904.7	6299.9	5751.4	5253.9	4853.0	4410.5	4203.9	4119.5	4139.6	4159.7
10°	6680.7	5766.2	5071.6	4511.0	4072.5	3734.6	3379.2	3139.2	2972.9	2939.4	2932.7
12.5°	5919.0	4916.0	4241.5	3845.9	3506.6	3188.8	2812.0	2529.1	2313.2	2239.4	2189.8
15°	5597.2	4500.3	3793.6	3367.2	2993.0	2589.4	2239.4	1943.1	1744.6	1680.2	1644.0
17.5°	5665.6	4385.0	3485.2	2939.4	2460.7	2039.6	1598.4	1345.0	1225.6	1194.8	1194.8
20°	6025.0	4363.5	3230.4	2545.2	1948.4	1460.3	1098.3	953.4	914.5	910.5	921.2
22.5°	6529.2	4438.6	3040.0	2203.2	1514.0	1066.1	855.5	801.9	784.5	788.5	800.6
25°	7280.1	4692.1	2901.9	1898.8	1188.1	873.0	763.0	730.8	722.8	733.5	748.3
27.5°	8170.5	4945.5	2816.0	1669.5	1003.0	797.9	725.5	691.9	697.3	710.7	724.1
30°	8952.3	5153.4	2680.6	1505.9	945.4	801.9	725.5	679.9	674.5	677.2	681.2
32.5°	9653.6	5294.2	2522.4	1350.4	815.3	712.1	677.2	670.5	641.0	630.3	631.6
35°	10258.4	5294.2	2427.2	1259.2	730.8	631.6	575.3	541.8	527.0	528.3	543.1
37.5°	10841.7	5188.2	2380.2	1208.2	685.2	600.8	551.1	521.6	501.5	497.5	500.2
40°	11356.7	5034.0	2326.6	1186.8	650.4	582.0	535.0	510.9	489.5	482.7	484.1
42.5°	11769.7	4909.3	2267.6	1158.6	628.9	568.6	524.3	502.9	478.7	472.0	470.7
45°	12216.2	4867.7	2189.8	1102.3	639.6	569.9	521.6	498.8	474.7	466.7	464.0
47.5°	12804.9	4997.8	2109.3	1035.2	662.4	576.6	525.7	498.8	473.4	466.7	464.0
50°	13546.5	5303.5	2007.4	937.3	639.6	595.4	524.3	494.8	473.4	466.7	461.3
52.5°	14498.6	5716.6	1873.3	824.7	626.2	641.0	521.6	486.8	466.7	457.3	447.9
55°	15655.8	6054.5	1713.8	732.2	595.4	628.9	517.6	477.4	455.9	442.5	434.5
57.5°	16503.3	6176.5	1508.6	671.8	552.5	608.8	512.3	465.3	442.5	431.8	421.1
60°	16335.7	5940.5	1335.6	634.3	527.0	549.8	508.2	454.6	430.5	422.4	413.0
62.5°	14993.4	5323.7	1224.3	616.8	510.9	501.5	512.3	443.9	419.7	411.7	409.0
65°	12980.6	4413.1	1180.1	612.8	497.5	473.4	476.0	431.8	407.7	401.0	398.3
67.5°	10707.7	3561.6	1141.2	626.2	480.1	453.2	439.8	415.7	395.6	388.9	383.5
70°	8444.1	2962.2	1123.7	618.2	458.6	433.1	418.4	398.3	380.8	374.1	370.1
72.5°	6800.1	2502.3	1114.3	610.1	430.5	406.3	392.9	375.5	356.7	354.0	350.0
75°	5754.1	1967.2	1020.5	584.7	398.3	374.1	364.7	348.7	329.9	329.9	327.2
77.5°	4438.6	1422.8	848.8	517.6	364.7	337.9	329.9	317.8	296.4	300.4	299.0
80°	3278.7	928.0	663.8	429.1	323.2	297.7	293.7	281.6	258.8	264.2	264.2
82.5°	2246.1	608.8	477.4	351.3	276.2	252.1	252.1	240.0	214.6	217.2	225.3
85°	1127.8	418.4	356.7	272.2	214.6	202.5	202.5	193.1	167.6	169.0	179.7
87.5°	343.3	252.1	236.0	194.4	154.2	151.5	144.8	138.1	122.0	120.7	127.4
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°	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6
2.5°	7108.5	7032.1	6939.5	6735.7	6667.3	6663.3	6725.0	6660.6	6784.0	6731.7	6789.3
5°	5732.7	5657.6	5554.3	5294.2	5135.9	5028.6	4977.7	4827.5	4936.1	4857.0	4922.7
7.5°	4216.0	4233.4	4165.1	4012.2	3667.6	3494.6	3392.7	3301.5	3380.6	3372.5	3498.6
10°	2963.5	3010.5	2962.2	2808.0	2529.1	2433.9	2452.6	2488.8	2592.1	2645.7	2840.2
12.5°	2133.5	2130.8	2100.0	1961.8	1778.1	1788.9	1865.3	1928.3	2023.5	2079.8	2278.3
15°	1593.1	1568.9	1555.5	1442.9	1338.3	1361.1	1398.6	1405.3	1465.7	1499.2	1660.1
17.5°	1204.2	1216.3	1231.0	1150.6	1071.4	1056.7	1027.2	991.0	1008.4	1015.1	1095.6
20°	956.1	1004.4	1040.6	984.3	903.8	860.9	823.4	799.2	799.2	797.9	820.7
22.5°	835.4	870.3	909.2	870.3	797.9	760.3	738.9	720.1	717.4	717.4	738.9
25°	769.7	795.2	832.7	805.9	752.3	724.1	704.0	679.9	670.5	667.8	682.6
27.5°	737.5	748.3	767.0	742.9	697.3	683.9	678.5	657.1	645.0	638.3	653.1
30°	682.6	679.9	681.2	657.1	620.9	619.5	628.9	632.9	628.9	627.6	650.4
32.5°	631.6	626.2	624.9	603.4	569.9	561.9	569.9	578.0	587.3	600.8	627.6
35°	567.2	580.6	588.7	569.9	529.7	505.5	496.2	481.4	473.4	473.4	504.2
37.5°	516.3	547.1	559.2	541.8	497.5	464.0	447.9	445.2	446.5	451.9	481.4
40°	498.8	521.6	532.4	514.9	470.7	439.8	430.5	427.8	430.5	438.5	468.0
42.5°	488.1	504.2	502.9	481.4	445.2	423.7	418.4	415.7	418.4	426.4	458.6
45°	478.7	489.5	478.7	453.2	419.7	409.0	410.3	409.0	411.7	419.7	450.6
47.5°	470.7	474.7	461.3	435.8	401.0	398.3	403.6	407.7	410.3	417.0	449.2
50°	458.6	458.6	446.5	419.7	384.9	386.2	392.9	402.3	403.6	411.7	437.2
52.5°	443.9	442.5	434.5	409.0	371.4	375.5	375.5	386.2	388.9	398.3	425.1
55°	431.8	429.1	425.1	401.0	359.4	366.1	362.1	366.1	372.8	382.2	411.7
57.5°	421.1	415.7	415.7	394.2	350.0	352.7	343.3	348.7	356.7	364.7	395.6
60°	410.3	405.0	407.7	384.9	335.2	332.6	328.5	339.3	341.9	351.3	382.2
62.5°	398.3	394.2	395.6	374.1	324.5	317.8	317.8	327.2	328.5	341.9	371.4
65°	388.9	383.5	382.2	363.4	312.4	304.4	308.4	312.4	315.1	328.5	356.7
67.5°	379.5	368.8	368.8	354.0	299.0	291.0	299.0	297.7	301.7	313.8	336.6
70°	367.4	352.7	354.0	347.3	285.6	276.2	282.9	281.6	284.3	292.3	315.1
72.5°	348.7	336.6	339.3	336.6	272.2	258.8	261.5	261.5	261.5	268.2	292.3
75°	324.5	315.1	323.2	329.9	256.1	237.4	240.0	240.0	236.0	240.0	269.5
77.5°	295.0	289.6	316.5	307.1	237.4	214.6	214.6	211.9	203.8	209.2	241.4
80°	262.8	258.8	292.3	257.5	215.9	186.4	183.7	177.0	169.0	173.0	205.2
82.5°	229.3	225.3	245.4	197.1	186.4	154.2	147.5	135.4	127.4	131.4	160.9
85°	187.7	187.7	189.1	148.8	142.1	118.0	110.0	93.9	84.5	87.2	115.3
87.5°	134.1	138.1	127.4	101.9	84.5	65.7	60.3	51.0	42.9	49.6	60.3
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-SLL-8030-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6
2.5°	7084.3	7231.9	7399.5	7614.0	7797.7	8099.5	8389.1	8563.4
5°	5296.8	5542.2	5848.0	6240.9	6607.0	7156.8	7702.5	8052.5
7.5°	3790.9	4053.8	4383.6	4874.4	5392.0	6093.4	6814.8	7233.2
10°	3136.5	3406.1	3683.6	4014.9	4438.6	5201.6	6054.5	6526.5
12.5°	2594.8	2883.1	3182.1	3530.8	3923.7	4604.9	5587.8	6130.9
15°	1986.0	2307.8	2660.5	3101.7	3593.8	4381.0	5472.5	6062.5
17.5°	1361.1	1720.5	2153.6	2698.0	3300.1	4308.5	5679.0	6358.9
20°	937.3	1198.8	1661.5	2299.8	3023.9	4299.2	6075.9	6927.5
22.5°	784.5	901.1	1239.1	1933.7	2816.0	4414.5	6691.4	7725.3
25°	725.5	795.2	989.6	1615.9	2664.5	4680.0	7538.9	8757.9
27.5°	690.6	753.6	898.5	1408.0	2545.2	4988.4	8363.6	9758.2
30°	704.0	768.4	873.0	1302.1	2382.9	5245.9	9095.8	10538.7
32.5°	634.3	662.4	748.3	1208.2	2266.2	5461.8	9736.8	11185.0
35°	540.4	590.0	667.8	1164.0	2268.9	5606.6	10435.4	12011.1
37.5°	514.9	564.5	620.9	1147.9	2299.8	5760.8	11237.3	12979.3
40°	498.8	544.4	592.7	1138.5	2329.3	5901.6	12023.1	13936.7
42.5°	488.1	529.7	590.0	1106.3	2344.0	6027.7	12669.5	14750.7
45°	486.8	529.7	600.8	1074.1	2366.8	6163.1	13211.2	15352.8
47.5°	488.1	547.1	580.6	1035.2	2366.8	6389.7	13846.9	15890.5
50°	482.7	576.6	559.2	980.2	2311.8	6818.8	14718.5	16610.6
52.5°	480.1	572.6	517.6	895.8	2216.6	7500.1	15835.5	17602.9
55°	473.4	552.5	488.1	769.7	2105.3	8242.9	17031.7	18776.3
57.5°	466.7	489.5	472.0	659.8	1933.7	8765.9	17855.0	19692.2
60°	523.0	427.8	458.6	606.1	1704.4	8909.4	17822.8	20056.9
62.5°	484.1	401.0	441.2	594.1	1543.5	8507.1	16999.5	19859.8
65°	379.5	383.5	423.7	628.9	1500.5	7441.0	15540.5	18949.3
67.5°	347.3	366.1	406.3	673.2	1504.6	5957.9	13360.1	16966.0
70°	327.2	347.3	386.2	696.0	1515.3	4441.3	10562.8	13818.7
72.5°	304.4	321.8	363.4	700.0	1445.6	3226.4	8141.0	10160.5
75°	277.6	293.7	331.2	610.1	1197.5	2238.1	6227.5	6951.6
77.5°	246.7	258.8	291.0	470.7	889.1	1432.2	4674.6	5078.3
80°	210.5	217.2	244.1	344.6	608.8	895.8	3698.4	4075.2
82.5°	169.0	171.6	189.1	258.8	395.6	575.3	2476.8	2826.8
85°	119.3	119.3	130.1	187.7	269.5	364.7	1345.0	1491.2
87.5°	56.3	57.7	57.7	103.3	140.8	185.1	309.8	190.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)