

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: P193865

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193865
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 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

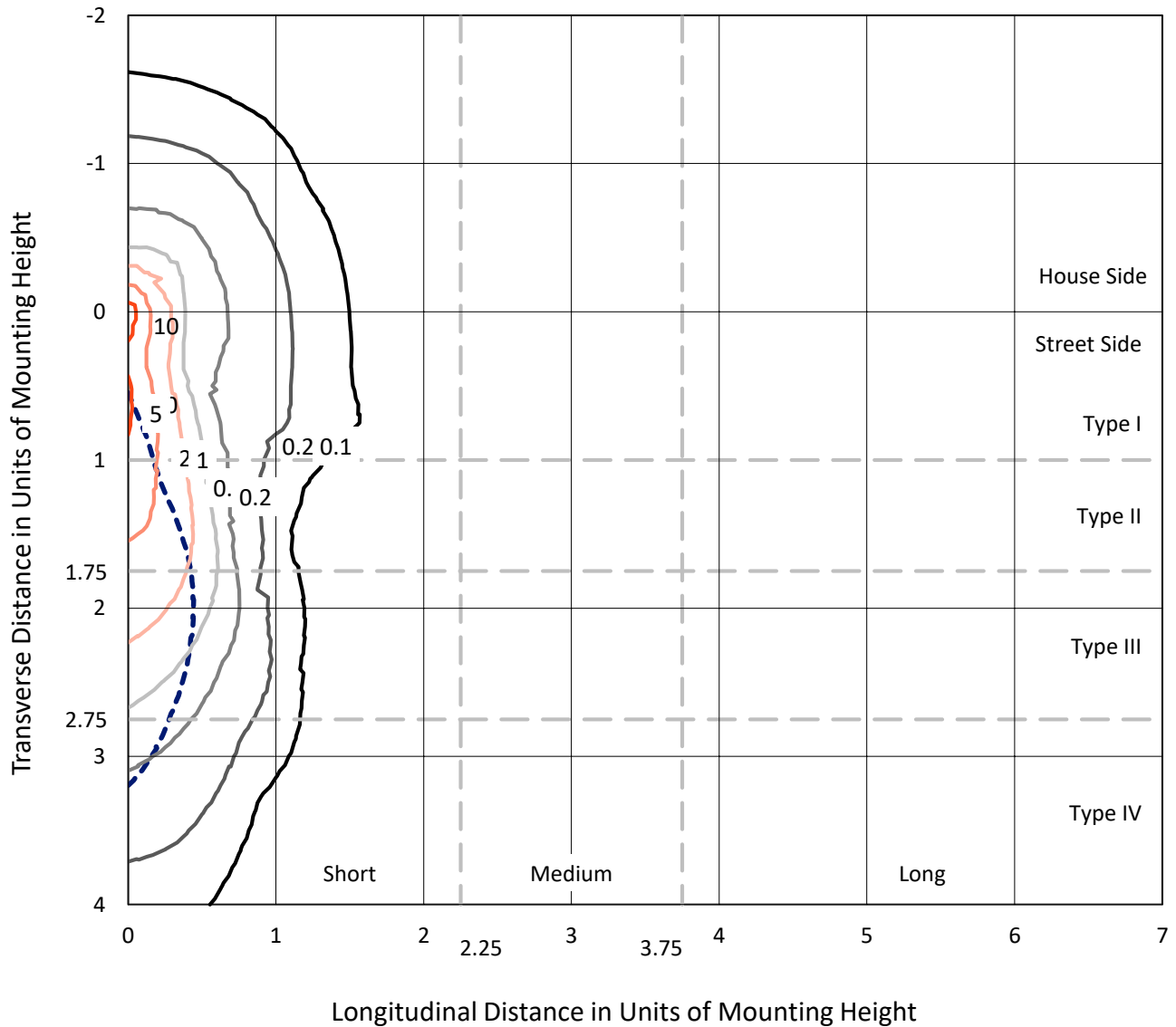


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

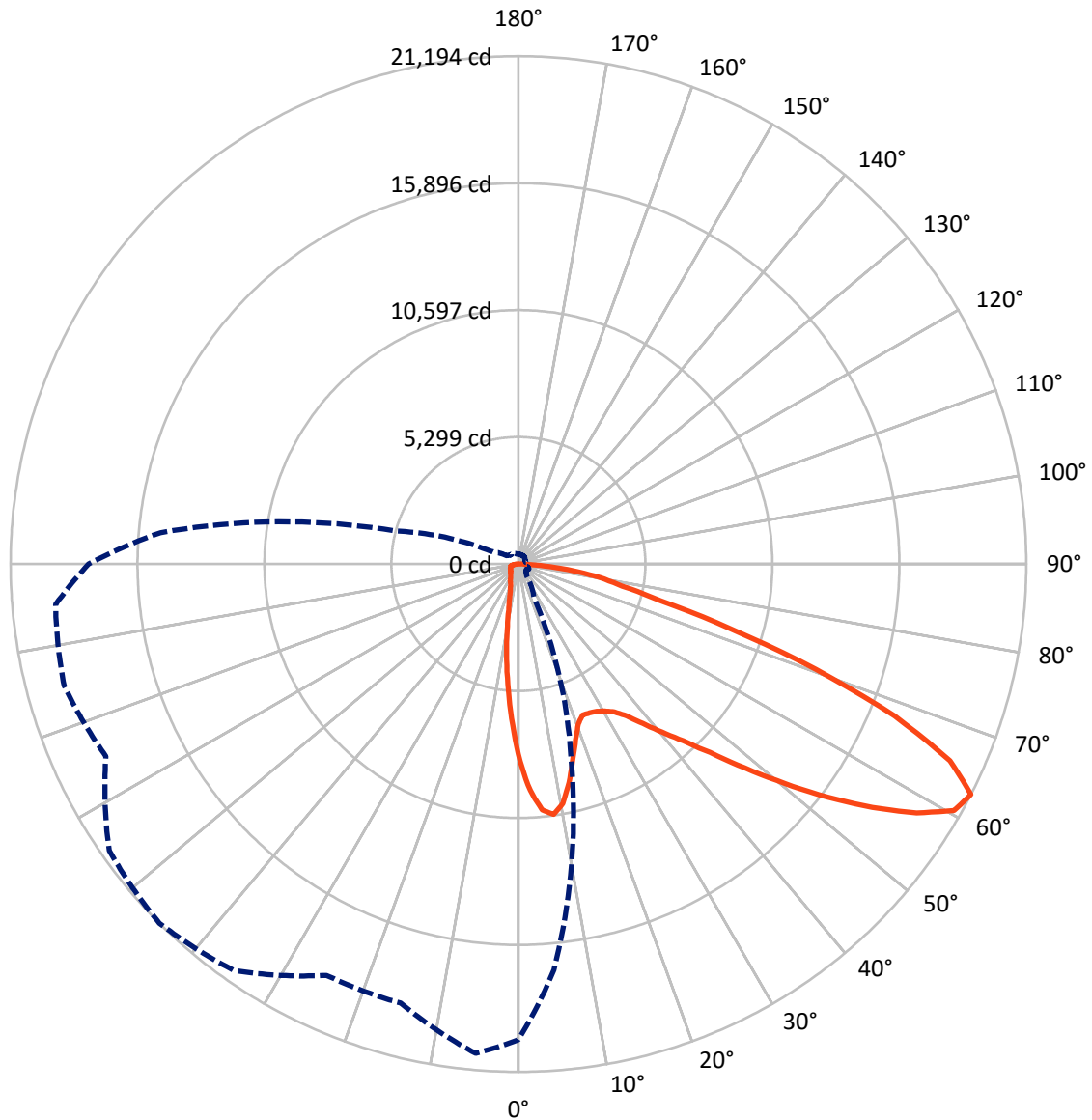


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	4036.9	0.0	4036.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20357.1	0.0	20357.1
	% Fixture	83.5	0.0	83.5
Total	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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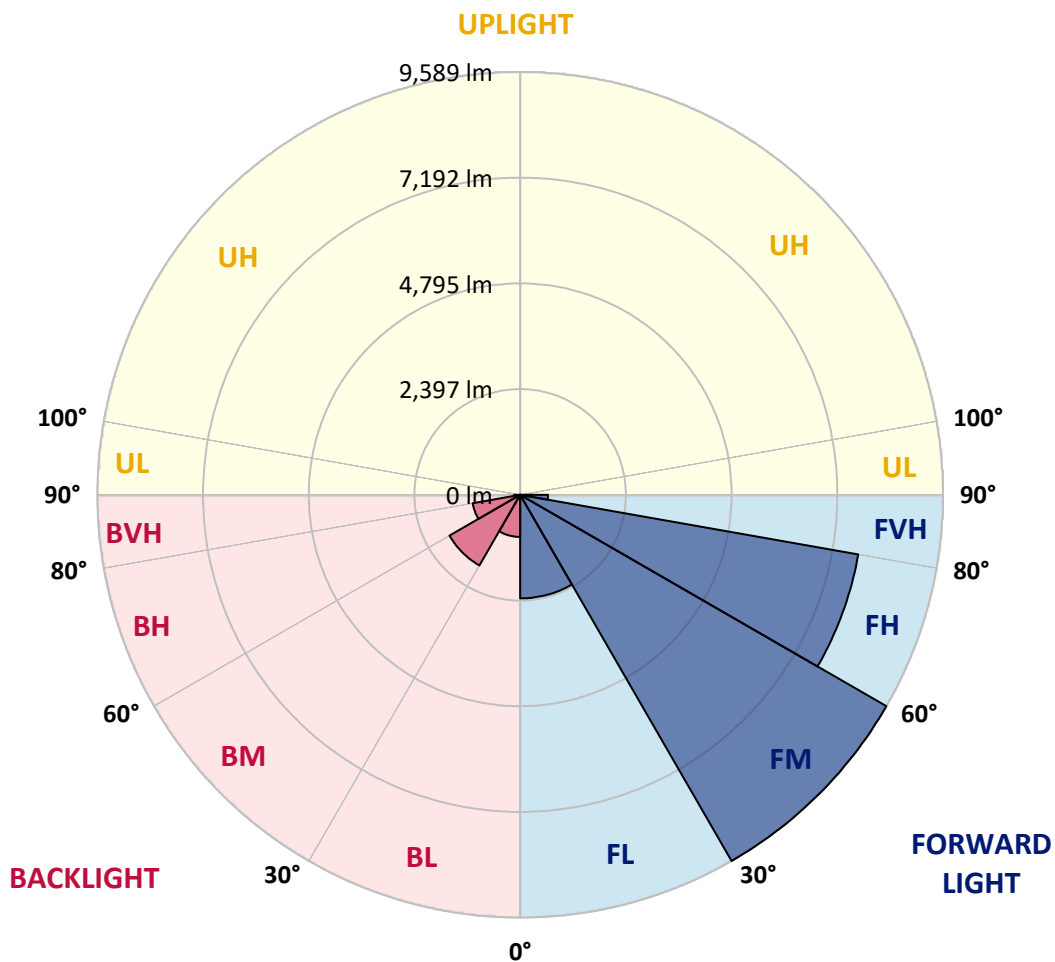
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	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	8389.1	8099.5	7797.7	7614.0	7399.5	7231.9	7084.3	6789.3	6731.7	6784.0
5°	8052.5	7702.5	7156.8	6607.0	6240.9	5848.0	5542.2	5296.8	4922.7	4857.0	4936.1
7.5°	7233.2	6814.8	6093.4	5392.0	4874.4	4383.6	4053.8	3790.9	3498.6	3372.5	3380.6
10°	6526.5	6054.5	5201.6	4438.6	4014.9	3683.6	3406.1	3136.5	2840.2	2645.7	2592.1
12.5°	6130.9	5587.8	4604.9	3923.7	3530.8	3182.1	2883.1	2594.8	2278.3	2079.8	2023.5
15°	6062.5	5472.5	4381.0	3593.8	3101.7	2660.5	2307.8	1986.0	1660.1	1499.2	1465.7
17.5°	6358.9	5679.0	4308.5	3300.1	2698.0	2153.6	1720.5	1361.1	1095.6	1015.1	1008.4
20°	6927.5	6075.9	4299.2	3023.9	2299.8	1661.5	1198.8	937.3	820.7	797.9	799.2
22.5°	7725.3	6691.4	4414.5	2816.0	1933.7	1239.1	901.1	784.5	738.9	717.4	717.4
25°	8757.9	7538.9	4680.0	2664.5	1615.9	989.6	795.2	725.5	682.6	667.8	670.5
27.5°	9758.2	8363.6	4988.4	2545.2	1408.0	898.5	753.6	690.6	653.1	638.3	645.0
30°	10538.7	9095.8	5245.9	2382.9	1302.1	873.0	768.4	704.0	650.4	627.6	628.9
32.5°	11185.0	9736.8	5461.8	2266.2	1208.2	748.3	662.4	634.3	627.6	600.8	587.3
35°	12011.1	10435.4	5606.6	2268.9	1164.0	667.8	590.0	540.4	504.2	473.4	473.4
37.5°	12979.3	11237.3	5760.8	2299.8	1147.9	620.9	564.5	514.9	481.4	451.9	446.5
40°	13936.7	12023.1	5901.6	2329.3	1138.5	592.7	544.4	498.8	468.0	438.5	430.5
42.5°	14750.7	12669.5	6027.7	2344.0	1106.3	590.0	529.7	488.1	458.6	426.4	418.4
45°	15352.8	13211.2	6163.1	2366.8	1074.1	600.8	529.7	486.8	450.6	419.7	411.7
47.5°	15890.5	13846.9	6389.7	2366.8	1035.2	580.6	547.1	488.1	449.2	417.0	410.3
50°	16610.6	14718.5	6818.8	2311.8	980.2	559.2	576.6	482.7	437.2	411.7	403.6
52.5°	17602.9	15835.5	7500.1	2216.6	895.8	517.6	572.6	480.1	425.1	398.3	388.9
55°	18776.3	17031.7	8242.9	2105.3	769.7	488.1	552.5	473.4	411.7	382.2	372.8
57.5°	19692.2	17855.0	8765.9	1933.7	659.8	472.0	489.5	466.7	395.6	364.7	356.7
60°	20056.9	17822.8	8909.4	1704.4	606.1	458.6	427.8	523.0	382.2	351.3	341.9
62.5°	19859.8	16999.5	8507.1	1543.5	594.1	441.2	401.0	484.1	371.4	341.9	328.5
65°	18949.3	15540.5	7441.0	1500.5	628.9	423.7	383.5	379.5	356.7	328.5	315.1
67.5°	16966.0	13360.1	5957.9	1504.6	673.2	406.3	366.1	347.3	336.6	313.8	301.7
70°	13818.7	10562.8	4441.3	1515.3	696.0	386.2	347.3	327.2	315.1	292.3	284.3
72.5°	10160.5	8141.0	3226.4	1445.6	700.0	363.4	321.8	304.4	292.3	268.2	261.5
75°	6951.6	6227.5	2238.1	1197.5	610.1	331.2	293.7	277.6	269.5	240.0	236.0
77.5°	5078.3	4674.6	1432.2	889.1	470.7	291.0	258.8	246.7	241.4	209.2	203.8
80°	4075.2	3698.4	895.8	608.8	344.6	244.1	217.2	210.5	205.2	173.0	169.0
82.5°	2826.8	2476.8	575.3	395.6	258.8	189.1	171.6	169.0	160.9	131.4	127.4
85°	1491.2	1345.0	364.7	269.5	187.7	130.1	119.3	119.3	115.3	87.2	84.5
87.5°	190.4	309.8	185.1	140.8	103.3	57.7	57.7	56.3	60.3	49.6	42.9
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°	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6
2.5°	6660.6	6725.0	6663.3	6667.3	6735.7	6939.5	7032.1	7108.5	7190.3	7243.9	7268.1
5°	4827.5	4977.7	5028.6	5135.9	5294.2	5554.3	5657.6	5732.7	5782.3	5811.8	5823.8
7.5°	3301.5	3392.7	3494.6	3667.6	4012.2	4165.1	4233.4	4216.0	4159.7	4139.6	4119.5
10°	2488.8	2452.6	2433.9	2529.1	2808.0	2962.2	3010.5	2963.5	2932.7	2939.4	2972.9
12.5°	1928.3	1865.3	1788.9	1778.1	1961.8	2100.0	2130.8	2133.5	2189.8	2239.4	2313.2
15°	1405.3	1398.6	1361.1	1338.3	1442.9	1555.5	1568.9	1593.1	1644.0	1680.2	1744.6
17.5°	991.0	1027.2	1056.7	1071.4	1150.6	1231.0	1216.3	1204.2	1194.8	1194.8	1225.6
20°	799.2	823.4	860.9	903.8	984.3	1040.6	1004.4	956.1	921.2	910.5	914.5
22.5°	720.1	738.9	760.3	797.9	870.3	909.2	870.3	835.4	800.6	788.5	784.5
25°	679.9	704.0	724.1	752.3	805.9	832.7	795.2	769.7	748.3	733.5	722.8
27.5°	657.1	678.5	683.9	697.3	742.9	767.0	748.3	737.5	724.1	710.7	697.3
30°	632.9	628.9	619.5	620.9	657.1	681.2	679.9	682.6	681.2	677.2	674.5
32.5°	578.0	569.9	561.9	569.9	603.4	624.9	626.2	631.6	631.6	630.3	641.0
35°	481.4	496.2	505.5	529.7	569.9	588.7	580.6	567.2	543.1	528.3	527.0
37.5°	445.2	447.9	464.0	497.5	541.8	559.2	547.1	516.3	500.2	497.5	501.5
40°	427.8	430.5	439.8	470.7	514.9	532.4	521.6	498.8	484.1	482.7	489.5
42.5°	415.7	418.4	423.7	445.2	481.4	502.9	504.2	488.1	470.7	472.0	478.7
45°	409.0	410.3	409.0	419.7	453.2	478.7	489.5	478.7	464.0	466.7	474.7
47.5°	407.7	403.6	398.3	401.0	435.8	461.3	474.7	470.7	464.0	466.7	473.4
50°	402.3	392.9	386.2	384.9	419.7	446.5	458.6	458.6	461.3	466.7	473.4
52.5°	386.2	375.5	375.5	371.4	409.0	434.5	442.5	443.9	447.9	457.3	466.7
55°	366.1	362.1	366.1	359.4	401.0	425.1	429.1	431.8	434.5	442.5	455.9
57.5°	348.7	343.3	352.7	350.0	394.2	415.7	415.7	421.1	421.1	431.8	442.5
60°	339.3	328.5	332.6	335.2	384.9	407.7	405.0	410.3	413.0	422.4	430.5
62.5°	327.2	317.8	317.8	324.5	374.1	395.6	394.2	398.3	409.0	411.7	419.7
65°	312.4	308.4	304.4	312.4	363.4	382.2	383.5	388.9	398.3	401.0	407.7
67.5°	297.7	299.0	291.0	299.0	354.0	368.8	368.8	379.5	383.5	388.9	395.6
70°	281.6	282.9	276.2	285.6	347.3	354.0	352.7	367.4	370.1	374.1	380.8
72.5°	261.5	261.5	258.8	272.2	336.6	339.3	336.6	348.7	350.0	354.0	356.7
75°	240.0	240.0	237.4	256.1	329.9	323.2	315.1	324.5	327.2	329.9	329.9
77.5°	211.9	214.6	214.6	237.4	307.1	316.5	289.6	295.0	299.0	300.4	296.4
80°	177.0	183.7	186.4	215.9	257.5	292.3	258.8	262.8	264.2	264.2	258.8
82.5°	135.4	147.5	154.2	186.4	197.1	245.4	225.3	229.3	225.3	217.2	214.6
85°	93.9	110.0	118.0	142.1	148.8	189.1	187.7	187.7	179.7	169.0	167.6
87.5°	51.0	60.3	65.7	84.5	101.9	127.4	138.1	134.1	127.4	120.7	122.0
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°	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6	8241.6
2.5°	7394.1	7576.5	7867.5	8090.1	8314.0	8529.9	8763.2	8941.6	9093.1	9152.1	9331.8
5°	5945.9	6173.8	6448.7	6944.9	7296.2	7683.8	8131.6	8724.4	8952.3	9267.4	9783.7
7.5°	4203.9	4410.5	4853.0	5253.9	5751.4	6299.9	6904.7	7722.7	8021.7	8527.2	9368.0
10°	3139.2	3379.2	3734.6	4072.5	4511.0	5071.6	5766.2	6680.7	7044.1	7592.6	8560.8
12.5°	2529.1	2812.0	3188.8	3506.6	3845.9	4241.5	4916.0	5919.0	6405.8	6885.9	7864.8
15°	1943.1	2239.4	2589.4	2993.0	3367.2	3793.6	4500.3	5597.2	6157.7	6657.9	7493.3
17.5°	1345.0	1598.4	2039.6	2460.7	2939.4	3485.2	4385.0	5665.6	6334.7	6911.4	7557.7
20°	953.4	1098.3	1460.3	1948.4	2545.2	3230.4	4363.5	6025.0	6895.3	7553.7	7970.7
22.5°	801.9	855.5	1066.1	1514.0	2203.2	3040.0	4438.6	6529.2	7651.6	8492.4	8629.1
25°	730.8	763.0	873.0	1188.1	1898.8	2901.9	4692.1	7280.1	8587.6	9431.0	9406.9
27.5°	691.9	725.5	797.9	1003.0	1669.5	2816.0	4945.5	8170.5	9657.7	10450.2	10149.8
30°	679.9	725.5	801.9	945.4	1505.9	2680.6	5153.4	8952.3	10481.0	11138.1	10487.7
32.5°	670.5	677.2	712.1	815.3	1350.4	2522.4	5294.2	9653.6	11287.0	11792.5	10974.5
35°	541.8	575.3	631.6	730.8	1259.2	2427.2	5294.2	10258.4	12080.8	12453.6	11438.5
37.5°	521.6	551.1	600.8	685.2	1208.2	2380.2	5188.2	10841.7	12892.1	13203.2	11820.7
40°	510.9	535.0	582.0	650.4	1186.8	2326.6	5034.0	11356.7	13684.6	13954.1	12177.4
42.5°	502.9	524.3	568.6	628.9	1158.6	2267.6	4909.3	11769.7	14372.5	14595.1	12518.0
45°	498.8	521.6	569.9	639.6	1102.3	2189.8	4867.7	12216.2	14938.4	15130.2	12886.7
47.5°	498.8	525.7	576.6	662.4	1035.2	2109.3	4997.8	12804.9	15473.5	15567.3	13321.2
50°	494.8	524.3	595.4	639.6	937.3	2007.4	5303.5	13546.5	16052.8	16063.5	13871.0
52.5°	486.8	521.6	641.0	626.2	824.7	1873.3	5716.6	14498.6	16909.6	16974.0	14731.9
55°	477.4	517.6	628.9	595.4	732.2	1713.8	6054.5	15655.8	18113.8	18292.2	15997.8
57.5°	465.3	512.3	608.8	552.5	671.8	1508.6	6176.5	16503.3	18954.6	19402.5	17424.6
60°	454.6	508.2	549.8	527.0	634.3	1335.6	5940.5	16335.7	18897.0	19862.5	18689.1
62.5°	443.9	512.3	501.5	510.9	616.8	1224.3	5323.7	14993.4	17940.8	19387.8	19626.5
65°	431.8	476.0	473.4	497.5	612.8	1180.1	4413.1	12980.6	16093.0	17887.2	19847.7
67.5°	415.7	439.8	453.2	480.1	626.2	1141.2	3561.6	10707.7	13525.0	15638.4	18694.5
70°	398.3	418.4	433.1	458.6	618.2	1123.7	2962.2	8444.1	10731.8	12817.0	16418.8
72.5°	375.5	392.9	406.3	430.5	610.1	1114.3	2502.3	6800.1	8012.3	9520.9	13349.4
75°	348.7	364.7	374.1	398.3	584.7	1020.5	1967.2	5754.1	5995.5	6623.1	10632.6
77.5°	317.8	329.9	337.9	364.7	517.6	848.8	1422.8	4438.6	4655.9	4808.7	8151.8
80°	281.6	293.7	297.7	323.2	429.1	663.8	928.0	3278.7	3482.5	3517.4	5323.7
82.5°	240.0	252.1	252.1	276.2	351.3	477.4	608.8	2246.1	2286.4	2404.4	3762.8
85°	193.1	202.5	202.5	214.6	272.2	356.7	418.4	1127.8	1115.7	1273.9	3259.9
87.5°	138.1	144.8	151.5	154.2	194.4	236.0	252.1	343.3	226.6	260.1	2093.3
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-SLR-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°	9467.3	9543.7	9465.9	9409.6	9166.9	8967.1	8700.2	8563.4
5°	10176.6	10371.1	10305.4	10069.4	9562.5	8992.6	8344.9	8052.5
7.5°	10090.8	10542.7	10553.4	10112.3	9365.3	8525.9	7648.9	7233.2
10°	9423.0	10001.0	10165.9	9738.1	8945.6	8006.9	7001.2	6526.5
12.5°	8677.4	9243.3	9369.4	9221.9	8559.4	7616.7	6596.2	6130.9
15°	8067.3	8320.7	8470.9	8599.6	8228.2	7461.2	6573.4	6062.5
17.5°	7695.8	7667.7	7710.6	7934.5	7997.6	7639.5	6922.1	6358.9
20°	7561.7	7131.3	7120.6	7429.0	7888.9	8064.6	7603.3	6927.5
22.5°	7635.5	6938.2	6849.7	7215.8	7946.6	8677.4	8496.4	7725.3
25°	7890.3	6954.3	6883.2	7237.2	8155.8	9330.5	9460.5	8757.9
27.5°	8291.2	7056.2	6962.3	7325.7	8433.4	9878.9	10410.0	9758.2
30°	8672.1	7233.2	7116.5	7500.1	8686.8	10096.2	10991.9	10538.7
32.5°	9134.7	7564.4	7359.2	7820.5	9000.6	10442.1	11510.9	11185.0
35°	9587.9	8036.4	7781.7	8315.4	9350.6	10872.6	12103.6	12011.1
37.5°	10085.4	8653.3	8442.8	8955.0	9829.3	11278.9	12859.9	12979.3
40°	10616.5	9471.3	9221.9	9888.3	10572.2	11788.5	13649.7	13936.7
42.5°	11151.5	10379.1	10081.4	10757.3	11388.9	12291.3	14325.6	14750.7
45°	11764.3	11364.7	11223.9	11954.8	12173.3	12770.1	14824.4	15352.8
47.5°	12477.7	12483.1	12709.7	13002.1	12964.5	13311.8	15326.0	15890.5
50°	13310.5	13879.0	14379.2	14573.7	13779.8	13893.8	16021.9	16610.6
52.5°	14310.8	15548.6	16168.1	16040.7	14658.2	14604.5	17124.2	17602.9
55°	15562.0	17316.0	17931.5	17840.3	15667.9	15572.7	18497.4	18776.3
57.5°	17010.2	19028.4	19594.3	19183.9	16880.1	16634.7	19633.2	19692.2
60°	18282.8	20385.4	20881.6	20427.0	18103.1	17765.2	20342.5	20056.9
62.5°	18990.8	20845.4	21194.0	20704.6	18941.2	18969.4	20498.1	19859.8
65°	18674.4	19682.8	19795.4	19755.2	18725.3	19668.0	19938.9	18949.3
67.5°	16941.8	16743.4	16932.4	17193.9	16874.8	18748.1	18390.1	16966.0
70°	13889.8	12799.6	13176.4	13352.0	13496.9	16133.2	15961.6	13818.7
72.5°	10467.6	8967.1	9264.8	9228.6	9899.0	12940.4	12413.4	10160.5
75°	7416.9	6080.0	6117.5	6102.8	6907.3	10124.3	8988.5	6951.6
77.5°	5189.6	4405.1	4425.2	4508.3	4643.8	7635.5	6421.9	5078.3
80°	3568.3	3343.0	3454.3	3461.0	3218.3	5129.2	4744.4	4075.2
82.5°	2657.8	2323.9	2297.1	2336.0	2522.4	4155.7	3646.1	2826.8
85°	2176.4	1375.8	1106.3	1386.6	2235.4	4115.4	2421.8	1491.2
87.5°	1225.6	653.1	295.0	547.1	891.7	2724.9	700.0	190.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)