

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: P193868

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193868  
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-10-LED-E1-SLR-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 34135 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 419  
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

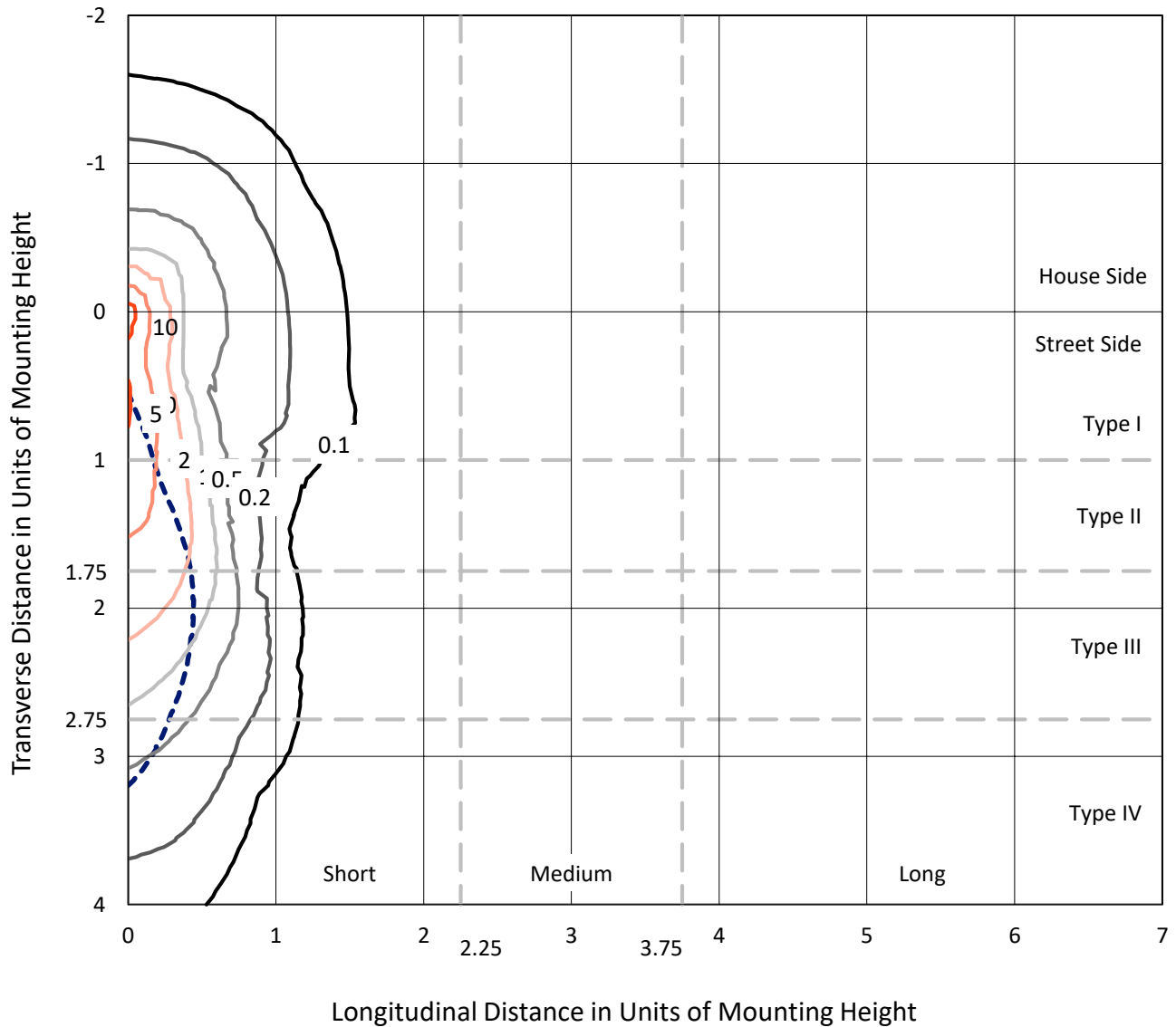


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

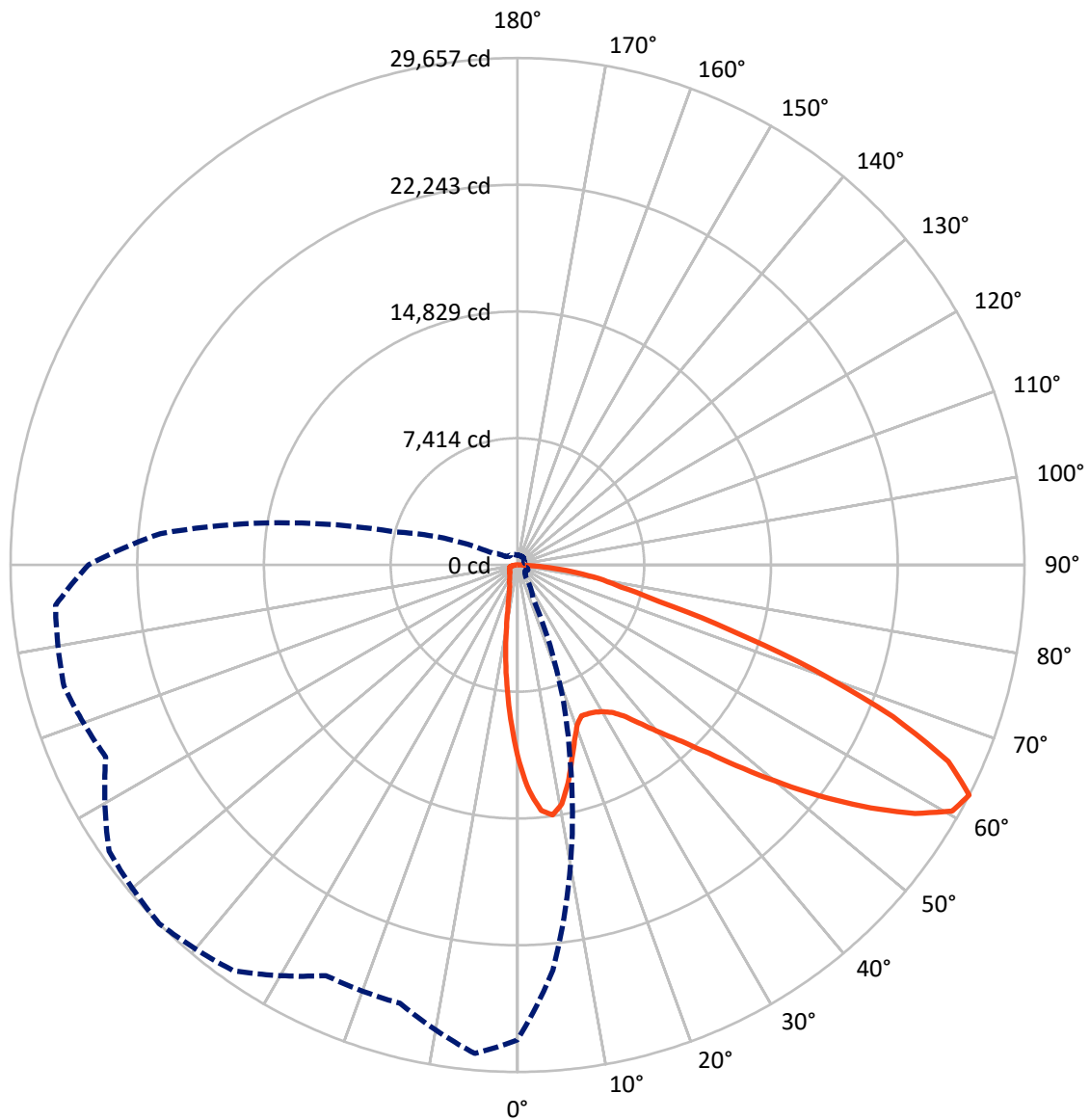


Based on 30 foot mounting height. Maximum calculated value = 12.8 fc  
 Type IV - Short - Non-Cutoff

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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	5648.9	0.0	5648.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	28486.1	0.0	28486.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	34135.0	0.0	34135.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.5	2.5
10°-20°	1539.5	4.5
20°-30°	2244.5	6.6
30°-40°	3456.9	10.1
40°-50°	5087.6	14.9
50°-60°	7462.5	21.9
60°-70°	8342.0	24.4
70°-80°	4084.1	12.0
80°-90°	1078.3	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°	34135.0	100.0
0°-180°	34135.0	100.0

**Coefficient of Utilization**



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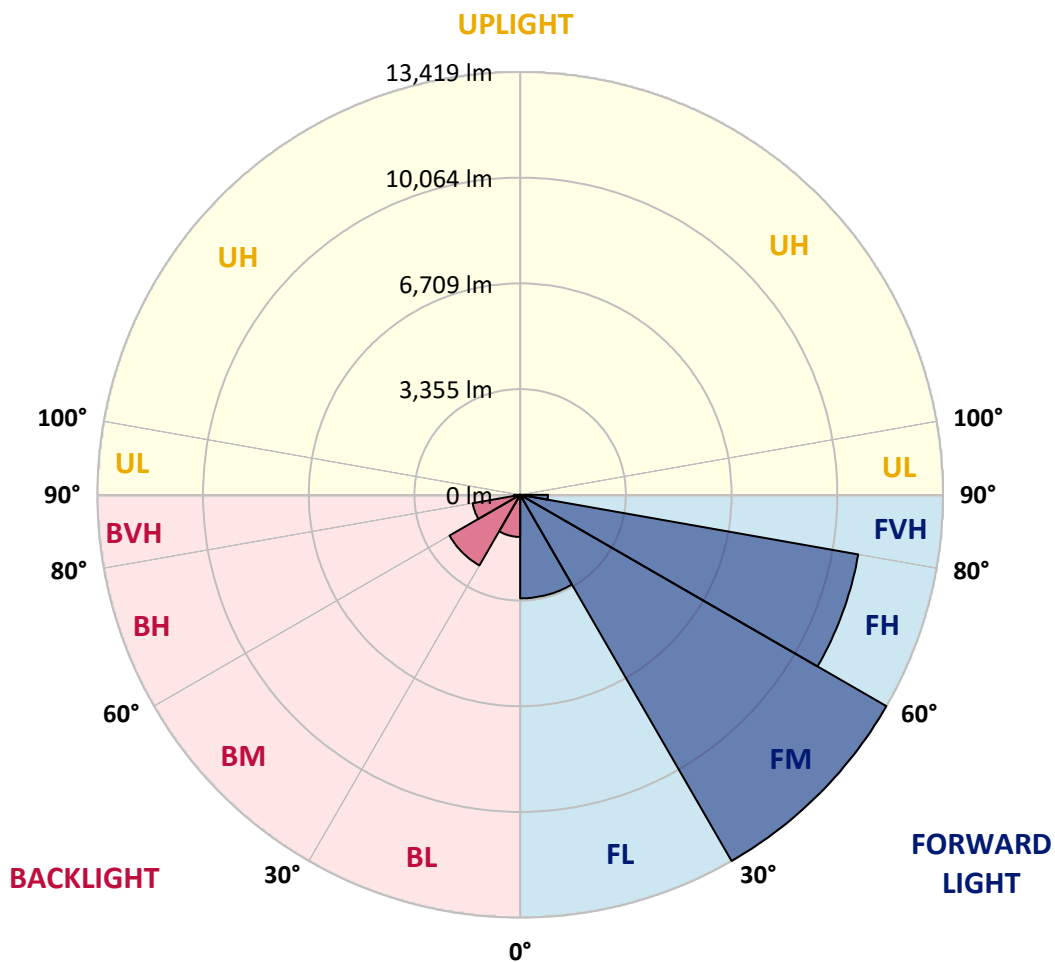
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3287.1	9.6			
FM	(30°-60°)	13418.8	39.3			
FH	(60°-80°)	10894.7	31.9			G4/12000
FVH	(80°-90°)	885.6	2.6			G5
BL	(0°-30°)	1336.4	3.9	B3/2500		
BM	(30°-60°)	2588.3	7.6	B3/5000		
BH	(60°-80°)	1531.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	192.8	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6
2.5°	11983.0	11739.1	11333.7	10911.5	10654.5	10354.2	10119.7	9913.3	9500.4	9419.8	9492.9
5°	11268.1	10778.3	10014.6	9245.3	8733.0	8183.2	7755.4	7412.0	6888.4	6796.5	6907.2
7.5°	10121.6	9536.1	8526.6	7545.2	6820.9	6134.1	5672.5	5304.7	4895.6	4719.3	4730.5
10°	9132.7	8472.2	7278.7	6211.0	5618.1	5154.6	4766.2	4389.0	3974.3	3702.2	3627.2
12.5°	8579.1	7819.2	6443.7	5490.5	4940.7	4452.8	4034.4	3630.9	3188.1	2910.4	2831.6
15°	8483.4	7657.8	6130.4	5028.9	4340.2	3722.9	3229.4	2779.0	2323.0	2097.9	2051.0
17.5°	8898.1	7946.8	6029.0	4617.9	3775.4	3013.6	2407.5	1904.6	1533.1	1420.5	1411.1
20°	9693.7	8502.2	6015.9	4231.4	3218.1	2324.9	1677.5	1311.6	1148.4	1116.5	1118.4
22.5°	10810.2	9363.5	6177.3	3940.5	2705.8	1733.8	1261.0	1097.7	1033.9	1003.9	1003.9
25°	12255.1	10549.4	6548.8	3728.5	2261.1	1384.8	1112.7	1015.2	955.1	934.5	938.2
27.5°	13654.9	11703.4	6980.4	3561.5	1970.3	1257.2	1054.6	966.4	913.8	893.2	902.6
30°	14747.0	12727.9	7340.7	3334.4	1822.0	1221.6	1075.2	985.1	910.1	878.2	880.1
32.5°	15651.4	13624.9	7642.8	3171.2	1690.7	1047.1	927.0	887.6	878.2	840.6	821.9
35°	16807.3	14602.5	7845.4	3174.9	1628.8	934.5	825.6	756.2	705.5	662.4	662.4
37.5°	18162.1	15724.6	8061.2	3218.1	1606.2	868.8	790.0	720.6	673.6	632.4	624.9
40°	19501.9	16824.2	8258.2	3259.4	1593.1	829.4	761.8	698.0	654.9	613.6	602.3
42.5°	20640.9	17728.7	8434.6	3280.0	1548.1	825.6	741.2	683.0	641.7	596.7	585.5
45°	21483.4	18486.8	8624.1	3311.9	1503.0	840.6	741.2	681.2	630.5	587.3	576.1
47.5°	22235.9	19376.2	8941.3	3311.9	1448.6	812.5	765.6	683.0	628.6	583.6	574.2
50°	23243.5	20595.9	9541.7	3235.0	1371.7	782.5	806.9	675.5	611.7	576.1	564.8
52.5°	24632.1	22159.0	10495.0	3101.8	1253.5	724.3	801.2	671.8	594.8	557.3	544.2
55°	26274.0	23832.8	11534.5	2946.0	1077.1	683.0	773.1	662.4	576.1	534.8	521.7
57.5°	27555.6	24984.9	12266.3	2705.8	923.2	660.5	684.9	653.0	553.6	510.4	499.1
60°	28066.0	24939.9	12467.1	2385.0	848.2	641.7	598.6	731.8	534.8	491.6	478.5
62.5°	27790.2	23787.7	11904.2	2159.8	831.3	617.4	561.1	677.4	519.8	478.5	459.7
65°	26516.1	21746.1	10412.4	2099.7	880.1	593.0	536.7	531.0	499.1	459.7	441.0
67.5°	23740.8	18695.0	8337.1	2105.4	942.0	568.6	512.3	486.0	471.0	439.1	422.2
70°	19336.8	14780.8	6214.8	2120.4	973.9	540.4	486.0	457.9	441.0	409.1	397.8
72.5°	14217.8	11391.9	4514.7	2022.8	979.5	508.5	450.3	426.0	409.1	375.3	365.9
75°	9727.5	8714.2	3131.8	1675.7	853.8	463.5	410.9	388.4	377.2	335.9	330.3
77.5°	7106.1	6541.3	2004.0	1244.1	658.6	407.2	362.2	345.3	337.8	292.7	285.2
80°	5702.5	5175.2	1253.5	851.9	482.2	341.5	304.0	294.6	287.1	242.1	236.4
82.5°	3955.5	3465.8	805.0	553.6	362.2	264.6	240.2	236.4	225.2	183.9	178.3
85°	2086.6	1882.1	510.4	377.2	262.7	182.0	167.0	167.0	161.4	122.0	118.2
87.5°	266.5	433.5	258.9	197.0	144.5	80.7	80.7	78.8	84.4	69.4	60.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6
2.5°	9320.3	9410.4	9324.1	9329.7	9425.4	9710.6	9840.1	9947.0	10061.5	10136.6	10170.3
5°	6755.2	6965.4	7036.7	7186.8	7408.2	7772.2	7916.7	8021.8	8091.2	8132.5	8149.4
7.5°	4619.8	4747.4	4890.0	5132.1	5614.3	5828.2	5923.9	5899.5	5820.7	5792.6	5764.4
10°	3482.7	3432.0	3405.8	3539.0	3929.3	4145.1	4212.6	4146.9	4103.8	4113.2	4160.1
12.5°	2698.3	2610.1	2503.2	2488.2	2745.2	2938.5	2981.7	2985.4	3064.2	3133.7	3236.9
15°	1966.5	1957.1	1904.6	1872.7	2019.1	2176.7	2195.4	2229.2	2300.5	2351.2	2441.3
17.5°	1386.7	1437.4	1478.6	1499.3	1610.0	1722.6	1701.9	1685.0	1671.9	1671.9	1715.1
20°	1118.4	1152.1	1204.7	1264.7	1377.3	1456.1	1405.5	1337.9	1289.1	1274.1	1279.7
22.5°	1007.7	1033.9	1063.9	1116.5	1217.8	1272.2	1217.8	1169.0	1120.2	1103.4	1097.7
25°	951.4	985.1	1013.3	1052.7	1127.7	1165.3	1112.7	1077.1	1047.1	1026.4	1011.4
27.5°	919.5	949.5	957.0	975.8	1039.6	1073.3	1047.1	1032.0	1013.3	994.5	975.8
30°	885.7	880.1	866.9	868.8	919.5	953.2	951.4	955.1	953.2	947.6	943.9
32.5°	808.7	797.5	786.2	797.5	844.4	874.4	876.3	883.8	883.8	881.9	896.9
35°	673.6	694.3	707.4	741.2	797.5	823.8	812.5	793.7	760.0	739.3	737.4
37.5°	623.0	626.7	649.3	696.2	758.1	782.5	765.6	722.4	699.9	696.2	701.8
40°	598.6	602.3	615.5	658.6	720.6	744.9	729.9	698.0	677.4	675.5	684.9
42.5°	581.7	585.5	593.0	623.0	673.6	703.7	705.5	683.0	658.6	660.5	669.9
45°	572.3	574.2	572.3	587.3	634.2	669.9	684.9	669.9	649.3	653.0	664.3
47.5°	570.4	564.8	557.3	561.1	609.8	645.5	664.3	658.6	649.3	653.0	662.4
50°	562.9	549.8	540.4	538.5	587.3	624.9	641.7	641.7	645.5	653.0	662.4
52.5°	540.4	525.4	525.4	519.8	572.3	608.0	619.2	621.1	626.7	639.9	653.0
55°	512.3	506.6	512.3	502.9	561.1	594.8	600.5	604.2	608.0	619.2	638.0
57.5°	487.9	480.4	493.5	489.8	551.7	581.7	581.7	589.2	589.2	604.2	619.2
60°	474.7	459.7	465.4	469.1	538.5	570.4	566.7	574.2	577.9	591.1	602.3
62.5°	457.9	444.7	444.7	454.1	523.5	553.6	551.7	557.3	572.3	576.1	587.3
65°	437.2	431.6	426.0	437.2	508.5	534.8	536.7	544.2	557.3	561.1	570.4
67.5°	416.6	418.4	407.2	418.4	495.4	516.0	516.0	531.0	536.7	544.2	553.6
70°	394.1	395.9	386.5	399.7	486.0	495.4	493.5	514.1	517.9	523.5	532.9
72.5°	365.9	365.9	362.2	380.9	471.0	474.7	471.0	487.9	489.8	495.4	499.1
75°	335.9	335.9	332.1	358.4	461.6	452.2	441.0	454.1	457.9	461.6	461.6
77.5°	296.5	300.2	300.2	332.1	429.7	442.8	405.3	412.8	418.4	420.3	414.7
80°	247.7	257.1	260.8	302.1	360.3	409.1	362.2	367.8	369.7	369.7	362.2
82.5°	189.5	206.4	215.8	260.8	275.8	343.4	315.2	320.9	315.2	304.0	300.2
85°	131.4	153.9	165.1	198.9	208.3	264.6	262.7	262.7	251.4	236.4	234.6
87.5°	71.3	84.4	91.9	118.2	142.6	178.3	193.3	187.6	178.3	168.9	170.8
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°	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6
2.5°	10346.7	10601.9	11009.1	11320.6	11634.0	11936.1	12262.6	12512.1	12724.2	12806.7	13058.2
5°	8320.2	8639.2	9023.8	9718.1	10209.7	10752.0	11378.8	12208.2	12527.2	12968.1	13690.6
7.5°	5882.7	6171.6	6790.9	7351.9	8048.1	8815.5	9661.8	10806.5	11224.9	11932.3	13108.9
10°	4392.8	4728.6	5225.9	5698.8	6312.4	7096.7	8068.7	9348.5	9857.0	10624.4	11979.2
12.5°	3539.0	3934.9	4462.2	4906.9	5381.6	5935.2	6879.1	8282.6	8963.8	9635.6	11005.4
15°	2719.0	3133.7	3623.4	4188.2	4711.8	5308.5	6297.4	7832.3	8616.6	9316.6	10485.6
17.5°	1882.1	2236.7	2854.1	3443.3	4113.2	4876.9	6136.0	7928.0	8864.3	9671.2	10575.7
20°	1334.2	1536.8	2043.5	2726.5	3561.5	4520.4	6106.0	8430.9	9648.7	10570.0	11153.6
22.5°	1122.1	1197.2	1491.8	2118.5	3083.0	4253.9	6211.0	9136.4	10707.0	11883.5	12074.9
25°	1022.7	1067.7	1221.6	1662.5	2657.0	4060.6	6565.7	10187.2	12016.8	13197.1	13163.3
27.5°	968.2	1015.2	1116.5	1403.6	2336.2	3940.5	6920.3	11433.2	13514.2	14623.1	14202.8
30°	951.4	1015.2	1122.1	1322.9	2107.2	3751.0	7211.2	12527.2	14666.3	15585.8	14675.7
32.5°	938.2	947.6	996.4	1140.9	1889.6	3529.6	7408.2	13508.5	15794.1	16501.5	15356.8
35°	758.1	805.0	883.8	1022.7	1762.0	3396.4	7408.2	14354.8	16904.9	17426.6	16006.1
37.5°	729.9	771.2	840.6	958.9	1690.7	3330.7	7260.0	15171.1	18040.2	18475.5	16540.9
40°	714.9	748.7	814.4	910.1	1660.7	3255.6	7044.2	15891.6	19149.1	19526.3	17040.0
42.5°	703.7	733.7	795.6	880.1	1621.2	3173.1	6869.7	16469.6	20111.8	20423.2	17516.6
45°	698.0	729.9	797.5	895.1	1542.4	3064.2	6811.5	17094.4	20903.6	21171.9	18032.7
47.5°	698.0	735.6	806.9	927.0	1448.6	2951.7	6993.5	17918.2	21652.3	21783.7	18640.6
50°	692.4	733.7	833.1	895.1	1311.6	2809.0	7421.3	18955.9	22462.9	22478.0	19410.0
52.5°	681.2	729.9	896.9	876.3	1154.0	2621.4	7999.3	20288.1	23662.0	23752.1	20614.6
55°	668.0	724.3	880.1	833.1	1024.5	2398.1	8472.2	21907.5	25347.0	25596.6	22386.0
57.5°	651.1	716.8	851.9	773.1	940.1	2111.0	8642.9	23093.4	26523.6	27150.3	24382.5
60°	636.1	711.2	769.3	737.4	887.6	1868.9	8312.7	22858.9	26442.9	27793.9	26152.0
62.5°	621.1	716.8	701.8	714.9	863.2	1713.2	7449.5	20980.6	25105.0	27129.7	27463.7
65°	604.2	666.1	662.4	696.2	857.5	1651.3	6175.4	18164.0	22519.2	25029.9	27773.3
67.5°	581.7	615.5	634.2	671.8	876.3	1596.9	4983.8	14983.4	18925.8	21883.1	26159.5
70°	557.3	585.5	606.1	641.7	865.0	1572.5	4145.1	11816.0	15017.2	17935.1	22975.2
72.5°	525.4	549.8	568.6	602.3	853.8	1559.3	3501.4	9515.5	11211.8	13322.8	18680.0
75°	487.9	510.4	523.5	557.3	818.1	1428.0	2752.7	8051.8	8389.6	9267.8	14878.3
77.5°	444.7	461.6	472.9	510.4	724.3	1187.8	1990.9	6211.0	6515.0	6728.9	11406.9
80°	394.1	410.9	416.6	452.2	600.5	928.8	1298.5	4587.9	4873.1	4921.9	7449.5
82.5°	335.9	352.8	352.8	386.5	491.6	668.0	851.9	3143.0	3199.3	3364.5	5265.3
85°	270.2	283.3	283.3	300.2	380.9	499.1	585.5	1578.1	1561.2	1782.6	4561.6
87.5°	193.3	202.7	212.0	215.8	272.1	330.3	352.8	480.4	317.1	364.0	2929.1
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-10-LED-E1-SLR-8030-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6	11532.6
2.5°	13247.7	13354.7	13245.8	13167.0	12827.4	12547.8	12174.4	11983.0
5°	14240.4	14512.4	14420.5	14090.2	13380.9	12583.5	11677.1	11268.1
7.5°	14120.3	14752.6	14767.6	14150.3	13105.1	11930.4	10703.3	10121.6
10°	13185.8	13994.5	14225.3	13626.8	12517.8	11204.3	9796.9	9132.7
12.5°	12142.5	12934.3	13110.7	12904.3	11977.4	10658.2	9230.2	8579.1
15°	11288.7	11643.4	11853.5	12033.7	11513.9	10440.5	9198.3	8483.4
17.5°	10768.9	10729.5	10789.6	11102.9	11191.1	10690.1	9686.2	8898.1
20°	10581.3	9978.9	9963.9	10395.5	11039.1	11285.0	10639.5	9693.7
22.5°	10684.5	9708.7	9584.9	10097.2	11119.8	12142.5	11889.2	10810.2
25°	11041.0	9731.3	9631.8	10127.2	11412.5	13056.3	13238.3	12255.1
27.5°	11602.1	9873.9	9742.5	10251.0	11801.0	13823.8	14566.9	13654.9
30°	12135.0	10121.6	9958.3	10495.0	12155.6	14127.8	15381.2	14747.0
32.5°	12782.4	10585.0	10297.9	10943.4	12594.7	14611.9	16107.4	15651.4
35°	13416.6	11245.5	10889.0	11635.8	13084.5	15214.2	16936.8	16807.3
37.5°	14112.8	12108.7	11814.1	12530.9	13754.4	15782.8	17995.1	18162.1
40°	14855.8	13253.3	12904.3	13836.9	14793.9	16495.8	19100.4	19501.9
42.5°	15604.5	14523.7	14107.1	15052.9	15936.7	17199.5	20046.1	20640.9
45°	16462.1	15902.9	15705.9	16728.5	17034.4	17869.4	20744.1	21483.4
47.5°	17460.3	17467.8	17785.0	18194.0	18141.5	18627.5	21445.9	22235.9
50°	18625.6	19421.2	20121.1	20393.2	19282.4	19441.9	22419.8	23243.5
52.5°	20025.4	21757.4	22624.3	22446.1	20511.4	20436.4	23962.2	24632.1
55°	21776.2	24230.6	25091.8	24964.2	21924.4	21791.2	25883.7	26274.0
57.5°	23802.7	26626.8	27418.6	26844.4	23620.7	23277.3	27473.1	27555.6
60°	25583.5	28525.7	29220.0	28583.9	25332.0	24859.2	28465.7	28066.0
62.5°	26574.2	29169.4	29657.2	28972.3	26504.8	26544.2	28683.4	27790.2
65°	26131.4	27542.5	27700.1	27643.8	26202.7	27521.8	27900.9	26516.1
67.5°	23707.0	23429.3	23693.9	24059.8	23613.2	26234.6	25733.6	23740.8
70°	19436.2	17910.7	18438.0	18683.8	18886.4	22575.5	22335.3	19336.8
72.5°	14647.5	12547.8	12964.4	12913.7	13851.9	18107.7	17370.3	14217.8
75°	10378.6	8507.8	8560.4	8539.7	9665.6	14167.2	12577.8	9727.5
77.5°	7261.8	6164.1	6192.3	6308.6	6498.1	10684.5	8986.3	7106.1
80°	4993.2	4678.0	4833.7	4843.1	4503.5	7177.4	6638.9	5702.5
82.5°	3719.1	3251.9	3214.4	3268.8	3529.6	5815.1	5102.1	3955.5
85°	3045.5	1925.2	1548.1	1940.2	3128.0	5758.8	3388.9	2086.6
87.5°	1715.1	913.8	412.8	765.6	1247.8	3812.9	979.5	266.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)