

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: P193828

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193828
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-SLL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 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

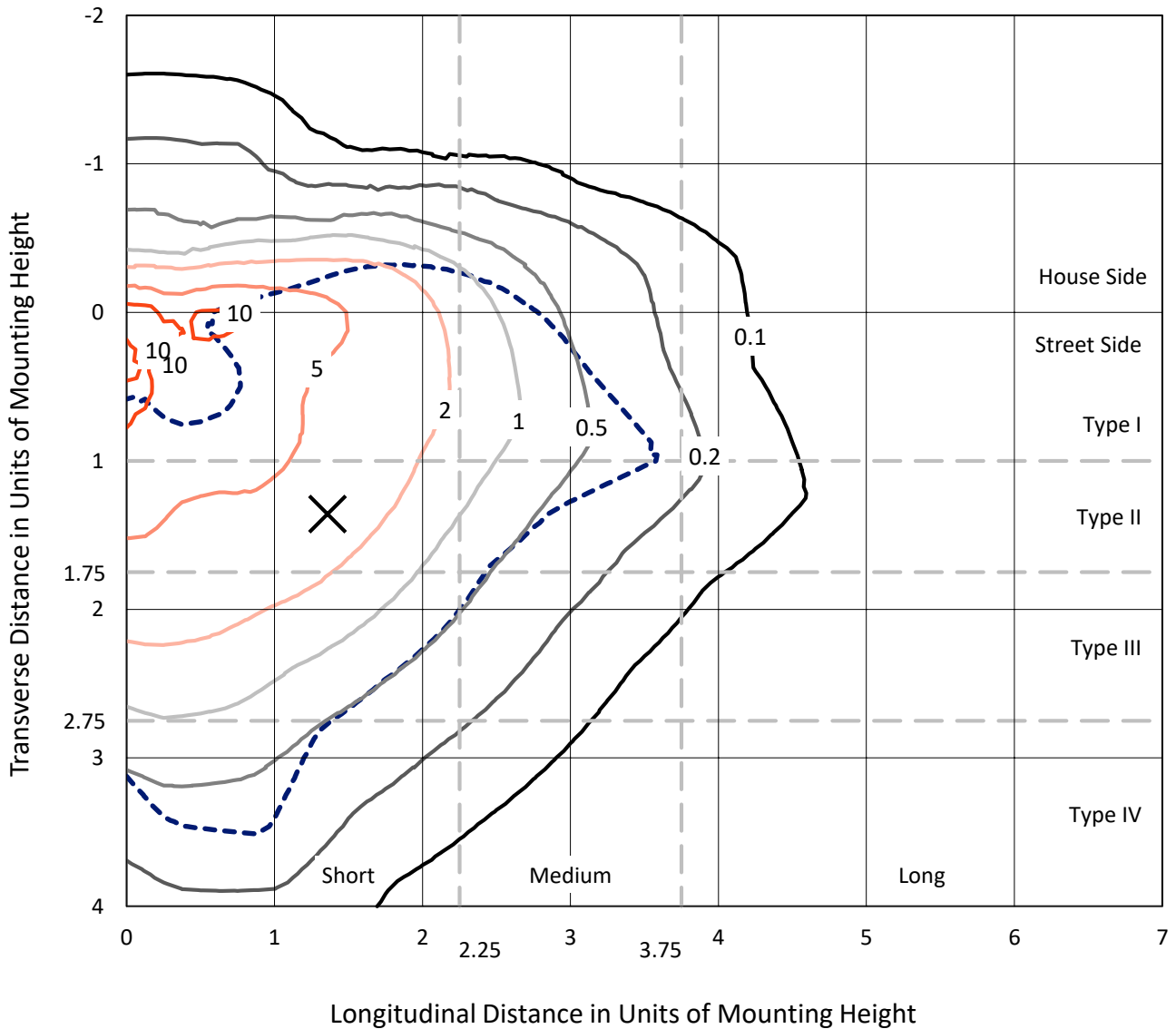
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

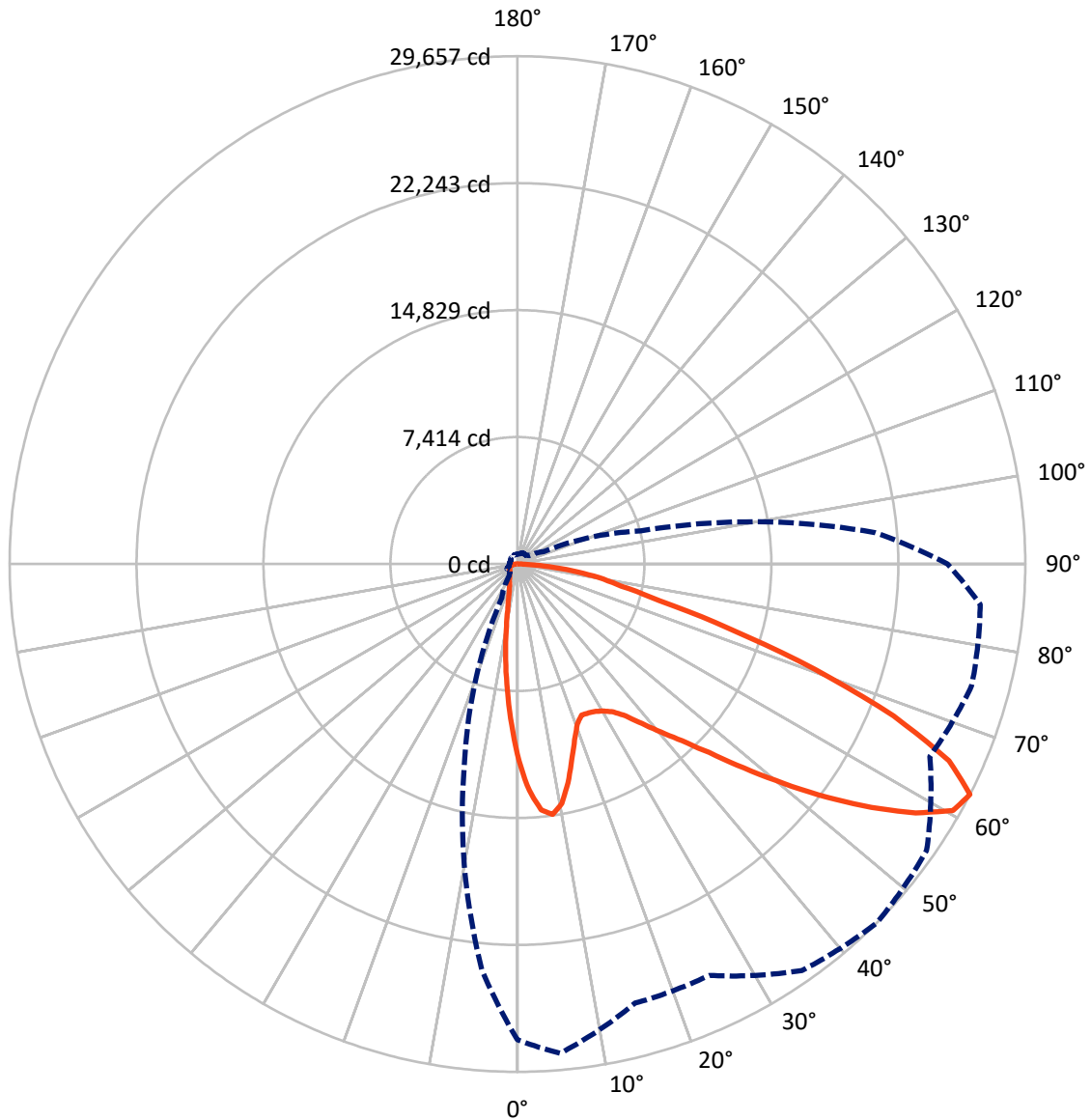


Based on 30 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	5648.9	0.0	5648.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	28486.1	0.0	28486.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	34135.0	0.0	34135.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

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



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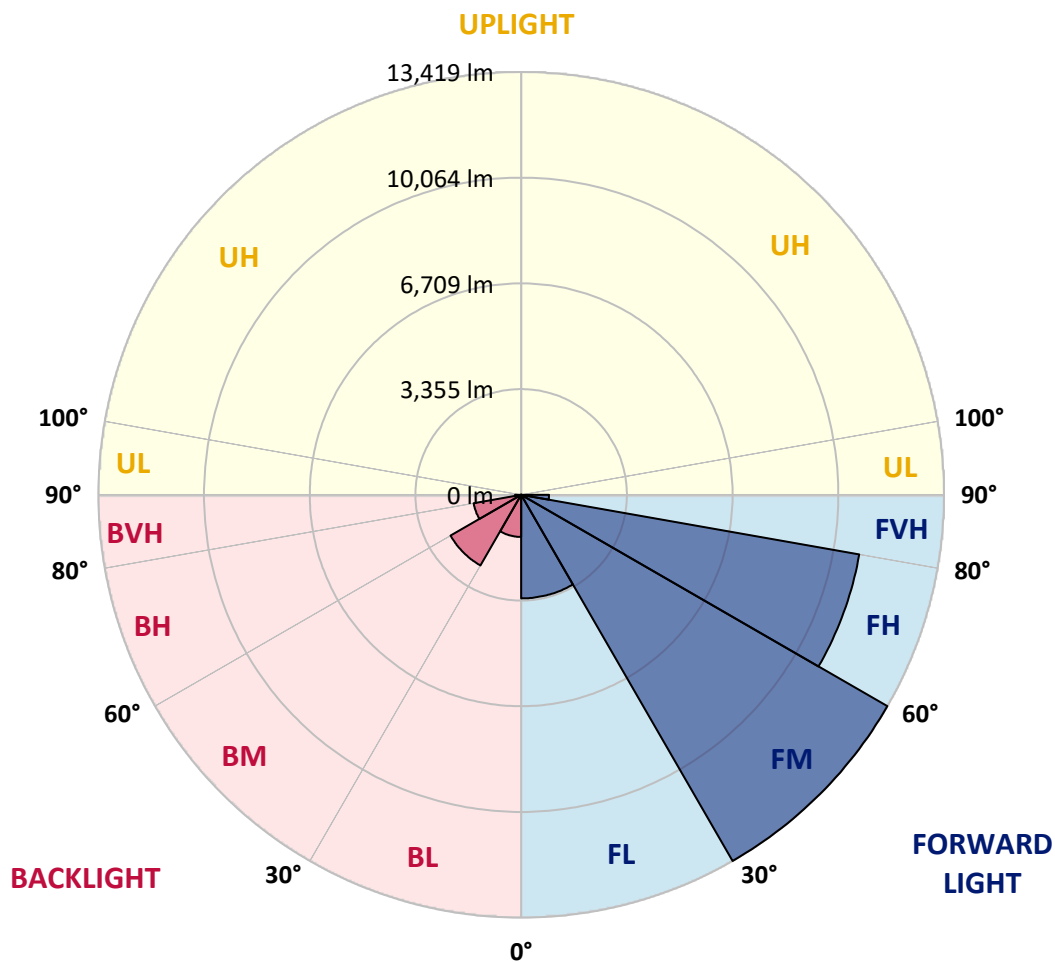
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	12174.4	12547.8	12827.4	13167.0	13245.8	13354.7	13247.7	13058.2	12806.7	12724.2
5°	11268.1	11677.1	12583.5	13380.9	14090.2	14420.5	14512.4	14240.4	13690.6	12968.1	12527.2
7.5°	10121.6	10703.3	11930.4	13105.1	14150.3	14767.6	14752.6	14120.3	13108.9	11932.3	11224.9
10°	9132.7	9796.9	11204.3	12517.8	13626.8	14225.3	13994.5	13185.8	11979.2	10624.4	9857.0
12.5°	8579.1	9230.2	10658.2	11977.4	12904.3	13110.7	12934.3	12142.5	11005.4	9635.6	8963.8
15°	8483.4	9198.3	10440.5	11513.9	12033.7	11853.5	11643.4	11288.7	10485.6	9316.6	8616.6
17.5°	8898.1	9686.2	10690.1	11191.1	11102.9	10789.6	10729.5	10768.9	10575.7	9671.2	8864.3
20°	9693.7	10639.5	11285.0	11039.1	10395.5	9963.9	9978.9	10581.3	11153.6	10570.0	9648.7
22.5°	10810.2	11889.2	12142.5	11119.8	10097.2	9584.9	9708.7	10684.5	12074.9	11883.5	10707.0
25°	12255.1	13238.3	13056.3	11412.5	10127.2	9631.8	9731.3	11041.0	13163.3	13197.1	12016.8
27.5°	13654.9	14566.9	13823.8	11801.0	10251.0	9742.5	9873.9	11602.1	14202.8	14623.1	13514.2
30°	14747.0	15381.2	14127.8	12155.6	10495.0	9958.3	10121.6	12135.0	14675.7	15585.8	14666.3
32.5°	15651.4	16107.4	14611.9	12594.7	10943.4	10297.9	10585.0	12782.4	15356.8	16501.5	15794.1
35°	16807.3	16936.8	15214.2	13084.5	11635.8	10889.0	11245.5	13416.6	16006.1	17426.6	16904.9
37.5°	18162.1	17995.1	15782.8	13754.4	12530.9	11814.1	12108.7	14112.8	16540.9	18475.5	18040.2
40°	19501.9	19100.4	16495.8	14793.9	13836.9	12904.3	13253.3	14855.8	17040.0	19526.3	19149.1
42.5°	20640.9	20046.1	17199.5	15936.7	15052.9	14107.1	14523.7	15604.5	17516.6	20423.2	20111.8
45°	21483.4	20744.1	17869.4	17034.4	16728.5	15705.9	15902.9	16462.1	18032.7	21171.9	20903.6
47.5°	22235.9	21445.9	18627.5	18141.5	18194.0	17785.0	17467.8	17460.3	18640.6	21783.7	21652.3
50°	23243.5	22419.8	19441.9	19282.4	20393.2	20121.1	19421.2	18625.6	19410.0	22478.0	22462.9
52.5°	24632.1	23962.2	20436.4	20511.4	22446.1	22624.3	21757.4	20025.4	20614.6	23752.1	23662.0
55°	26274.0	25883.7	21791.2	21924.4	24964.2	25091.8	24230.6	21776.2	22386.0	25596.6	25347.0
57.5°	27555.6	27473.1	23277.3	23620.7	26844.4	27418.6	26626.8	23802.7	24382.5	27150.3	26523.6
60°	28066.0	28465.7	24859.2	25332.0	28583.9	29220.0	28525.7	25583.5	26152.0	27793.9	26442.9
62.5°	27790.2	28683.4	26544.2	26504.8	28972.3	29657.2	29169.4	26574.2	27463.7	27129.7	25105.0
65°	26516.1	27900.9	27521.8	26202.7	27643.8	27700.1	27542.5	26131.4	27773.3	25029.9	22519.2
67.5°	23740.8	25733.6	26234.6	23613.2	24059.8	23693.9	23429.3	23707.0	26159.5	21883.1	18925.8
70°	19336.8	22335.3	22575.5	18886.4	18683.8	18438.0	17910.7	19436.2	22975.2	17935.1	15017.2
72.5°	14217.8	17370.3	18107.7	13851.9	12913.7	12964.4	12547.8	14647.5	18680.0	13322.8	11211.8
75°	9727.5	12577.8	14167.2	9665.6	8539.7	8560.4	8507.8	10378.6	14878.3	9267.8	8389.6
77.5°	7106.1	8986.3	10684.5	6498.1	6308.6	6192.3	6164.1	7261.8	11406.9	6728.9	6515.0
80°	5702.5	6638.9	7177.4	4503.5	4843.1	4833.7	4678.0	4993.2	7449.5	4921.9	4873.1
82.5°	3955.5	5102.1	5815.1	3529.6	3268.8	3214.4	3251.9	3719.1	5265.3	3364.5	3199.3
85°	2086.6	3388.9	5758.8	3128.0	1940.2	1548.1	1925.2	3045.5	4561.6	1782.6	1561.2
87.5°	266.5	979.5	3812.9	1247.8	765.6	412.8	913.8	1715.1	2929.1	364.0	317.1
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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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°	12512.1	12262.6	11936.1	11634.0	11320.6	11009.1	10601.9	10346.7	10170.3	10136.6	10061.5
5°	12208.2	11378.8	10752.0	10209.7	9718.1	9023.8	8639.2	8320.2	8149.4	8132.5	8091.2
7.5°	10806.5	9661.8	8815.5	8048.1	7351.9	6790.9	6171.6	5882.7	5764.4	5792.6	5820.7
10°	9348.5	8068.7	7096.7	6312.4	5698.8	5225.9	4728.6	4392.8	4160.1	4113.2	4103.8
12.5°	8282.6	6879.1	5935.2	5381.6	4906.9	4462.2	3934.9	3539.0	3236.9	3133.7	3064.2
15°	7832.3	6297.4	5308.5	4711.8	4188.2	3623.4	3133.7	2719.0	2441.3	2351.2	2300.5
17.5°	7928.0	6136.0	4876.9	4113.2	3443.3	2854.1	2236.7	1882.1	1715.1	1671.9	1671.9
20°	8430.9	6106.0	4520.4	3561.5	2726.5	2043.5	1536.8	1334.2	1279.7	1274.1	1289.1
22.5°	9136.4	6211.0	4253.9	3083.0	2118.5	1491.8	1197.2	1122.1	1097.7	1103.4	1120.2
25°	10187.2	6565.7	4060.6	2657.0	1662.5	1221.6	1067.7	1022.7	1011.4	1026.4	1047.1
27.5°	11433.2	6920.3	3940.5	2336.2	1403.6	1116.5	1015.2	968.2	975.8	994.5	1013.3
30°	12527.2	7211.2	3751.0	2107.2	1322.9	1122.1	1015.2	951.4	943.9	947.6	953.2
32.5°	13508.5	7408.2	3529.6	1889.6	1140.9	996.4	947.6	938.2	896.9	881.9	883.8
35°	14354.8	7408.2	3396.4	1762.0	1022.7	883.8	805.0	758.1	737.4	739.3	760.0
37.5°	15171.1	7260.0	3330.7	1690.7	958.9	840.6	771.2	729.9	701.8	696.2	699.9
40°	15891.6	7044.2	3255.6	1660.7	910.1	814.4	748.7	714.9	684.9	675.5	677.4
42.5°	16469.6	6869.7	3173.1	1621.2	880.1	795.6	733.7	703.7	669.9	660.5	658.6
45°	17094.4	6811.5	3064.2	1542.4	895.1	797.5	729.9	698.0	664.3	653.0	649.3
47.5°	17918.2	6993.5	2951.7	1448.6	927.0	806.9	735.6	698.0	662.4	653.0	649.3
50°	18955.9	7421.3	2809.0	1311.6	895.1	833.1	733.7	692.4	662.4	653.0	645.5
52.5°	20288.1	7999.3	2621.4	1154.0	876.3	896.9	729.9	681.2	653.0	639.9	626.7
55°	21907.5	8472.2	2398.1	1024.5	833.1	880.1	724.3	668.0	638.0	619.2	608.0
57.5°	23093.4	8642.9	2111.0	940.1	773.1	851.9	716.8	651.1	619.2	604.2	589.2
60°	22858.9	8312.7	1868.9	887.6	737.4	769.3	711.2	636.1	602.3	591.1	577.9
62.5°	20980.6	7449.5	1713.2	863.2	714.9	701.8	716.8	621.1	587.3	576.1	572.3
65°	18164.0	6175.4	1651.3	857.5	696.2	662.4	666.1	604.2	570.4	561.1	557.3
67.5°	14983.4	4983.8	1596.9	876.3	671.8	634.2	615.5	581.7	553.6	544.2	536.7
70°	11816.0	4145.1	1572.5	865.0	641.7	606.1	585.5	557.3	532.9	523.5	517.9
72.5°	9515.5	3501.4	1559.3	853.8	602.3	568.6	549.8	525.4	499.1	495.4	489.8
75°	8051.8	2752.7	1428.0	818.1	557.3	523.5	510.4	487.9	461.6	461.6	457.9
77.5°	6211.0	1990.9	1187.8	724.3	510.4	472.9	461.6	444.7	414.7	420.3	418.4
80°	4587.9	1298.5	928.8	600.5	452.2	416.6	410.9	394.1	362.2	369.7	369.7
82.5°	3143.0	851.9	668.0	491.6	386.5	352.8	352.8	335.9	300.2	304.0	315.2
85°	1578.1	585.5	499.1	380.9	300.2	283.3	283.3	270.2	234.6	236.4	251.4
87.5°	480.4	352.8	330.3	272.1	215.8	212.0	202.7	193.3	170.8	168.9	178.3
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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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°	9947.0	9840.1	9710.6	9425.4	9329.7	9324.1	9410.4	9320.3	9492.9	9419.8	9500.4
5°	8021.8	7916.7	7772.2	7408.2	7186.8	7036.7	6965.4	6755.2	6907.2	6796.5	6888.4
7.5°	5899.5	5923.9	5828.2	5614.3	5132.1	4890.0	4747.4	4619.8	4730.5	4719.3	4895.6
10°	4146.9	4212.6	4145.1	3929.3	3539.0	3405.8	3432.0	3482.7	3627.2	3702.2	3974.3
12.5°	2985.4	2981.7	2938.5	2745.2	2488.2	2503.2	2610.1	2698.3	2831.6	2910.4	3188.1
15°	2229.2	2195.4	2176.7	2019.1	1872.7	1904.6	1957.1	1966.5	2051.0	2097.9	2323.0
17.5°	1685.0	1701.9	1722.6	1610.0	1499.3	1478.6	1437.4	1386.7	1411.1	1420.5	1533.1
20°	1337.9	1405.5	1456.1	1377.3	1264.7	1204.7	1152.1	1118.4	1118.4	1116.5	1148.4
22.5°	1169.0	1217.8	1272.2	1217.8	1116.5	1063.9	1033.9	1007.7	1003.9	1003.9	1033.9
25°	1077.1	1112.7	1165.3	1127.7	1052.7	1013.3	985.1	951.4	938.2	934.5	955.1
27.5°	1032.0	1047.1	1073.3	1039.6	975.8	957.0	949.5	919.5	902.6	893.2	913.8
30°	955.1	951.4	953.2	919.5	868.8	866.9	880.1	885.7	880.1	878.2	910.1
32.5°	883.8	876.3	874.4	844.4	797.5	786.2	797.5	808.7	821.9	840.6	878.2
35°	793.7	812.5	823.8	797.5	741.2	707.4	694.3	673.6	662.4	662.4	705.5
37.5°	722.4	765.6	782.5	758.1	696.2	649.3	626.7	623.0	624.9	632.4	673.6
40°	698.0	729.9	744.9	720.6	658.6	615.5	602.3	598.6	602.3	613.6	654.9
42.5°	683.0	705.5	703.7	673.6	623.0	593.0	585.5	581.7	585.5	596.7	641.7
45°	669.9	684.9	669.9	634.2	587.3	572.3	574.2	572.3	576.1	587.3	630.5
47.5°	658.6	664.3	645.5	609.8	561.1	557.3	564.8	570.4	574.2	583.6	628.6
50°	641.7	641.7	624.9	587.3	538.5	540.4	549.8	562.9	564.8	576.1	611.7
52.5°	621.1	619.2	608.0	572.3	519.8	525.4	525.4	540.4	544.2	557.3	594.8
55°	604.2	600.5	594.8	561.1	502.9	512.3	506.6	512.3	521.7	534.8	576.1
57.5°	589.2	581.7	581.7	551.7	489.8	493.5	480.4	487.9	499.1	510.4	553.6
60°	574.2	566.7	570.4	538.5	469.1	465.4	459.7	474.7	478.5	491.6	534.8
62.5°	557.3	551.7	553.6	523.5	454.1	444.7	444.7	457.9	459.7	478.5	519.8
65°	544.2	536.7	534.8	508.5	437.2	426.0	431.6	437.2	441.0	459.7	499.1
67.5°	531.0	516.0	516.0	495.4	418.4	407.2	418.4	416.6	422.2	439.1	471.0
70°	514.1	493.5	495.4	486.0	399.7	386.5	395.9	394.1	397.8	409.1	441.0
72.5°	487.9	471.0	474.7	471.0	380.9	362.2	365.9	365.9	365.9	375.3	409.1
75°	454.1	441.0	452.2	461.6	358.4	332.1	335.9	335.9	330.3	335.9	377.2
77.5°	412.8	405.3	442.8	429.7	332.1	300.2	300.2	296.5	285.2	292.7	337.8
80°	367.8	362.2	409.1	360.3	302.1	260.8	257.1	247.7	236.4	242.1	287.1
82.5°	320.9	315.2	343.4	275.8	260.8	215.8	206.4	189.5	178.3	183.9	225.2
85°	262.7	262.7	264.6	208.3	198.9	165.1	153.9	131.4	118.2	122.0	161.4
87.5°	187.6	193.3	178.3	142.6	118.2	91.9	84.4	71.3	60.0	69.4	84.4
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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CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-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°	9913.3	10119.7	10354.2	10654.5	10911.5	11333.7	11739.1	11983.0
5°	7412.0	7755.4	8183.2	8733.0	9245.3	10014.6	10778.3	11268.1
7.5°	5304.7	5672.5	6134.1	6820.9	7545.2	8526.6	9536.1	10121.6
10°	4389.0	4766.2	5154.6	5618.1	6211.0	7278.7	8472.2	9132.7
12.5°	3630.9	4034.4	4452.8	4940.7	5490.5	6443.7	7819.2	8579.1
15°	2779.0	3229.4	3722.9	4340.2	5028.9	6130.4	7657.8	8483.4
17.5°	1904.6	2407.5	3013.6	3775.4	4617.9	6029.0	7946.8	8898.1
20°	1311.6	1677.5	2324.9	3218.1	4231.4	6015.9	8502.2	9693.7
22.5°	1097.7	1261.0	1733.8	2705.8	3940.5	6177.3	9363.5	10810.2
25°	1015.2	1112.7	1384.8	2261.1	3728.5	6548.8	10549.4	12255.1
27.5°	966.4	1054.6	1257.2	1970.3	3561.5	6980.4	11703.4	13654.9
30°	985.1	1075.2	1221.6	1822.0	3334.4	7340.7	12727.9	14747.0
32.5°	887.6	927.0	1047.1	1690.7	3171.2	7642.8	13624.9	15651.4
35°	756.2	825.6	934.5	1628.8	3174.9	7845.4	14602.5	16807.3
37.5°	720.6	790.0	868.8	1606.2	3218.1	8061.2	15724.6	18162.1
40°	698.0	761.8	829.4	1593.1	3259.4	8258.2	16824.2	19501.9
42.5°	683.0	741.2	825.6	1548.1	3280.0	8434.6	17728.7	20640.9
45°	681.2	741.2	840.6	1503.0	3311.9	8624.1	18486.8	21483.4
47.5°	683.0	765.6	812.5	1448.6	3311.9	8941.3	19376.2	22235.9
50°	675.5	806.9	782.5	1371.7	3235.0	9541.7	20595.9	23243.5
52.5°	671.8	801.2	724.3	1253.5	3101.8	10495.0	22159.0	24632.1
55°	662.4	773.1	683.0	1077.1	2946.0	11534.5	23832.8	26274.0
57.5°	653.0	684.9	660.5	923.2	2705.8	12266.3	24984.9	27555.6
60°	731.8	598.6	641.7	848.2	2385.0	12467.1	24939.9	28066.0
62.5°	677.4	561.1	617.4	831.3	2159.8	11904.2	23787.7	27790.2
65°	531.0	536.7	593.0	880.1	2099.7	10412.4	21746.1	26516.1
67.5°	486.0	512.3	568.6	942.0	2105.4	8337.1	18695.0	23740.8
70°	457.9	486.0	540.4	973.9	2120.4	6214.8	14780.8	19336.8
72.5°	426.0	450.3	508.5	979.5	2022.8	4514.7	11391.9	14217.8
75°	388.4	410.9	463.5	853.8	1675.7	3131.8	8714.2	9727.5
77.5°	345.3	362.2	407.2	658.6	1244.1	2004.0	6541.3	7106.1
80°	294.6	304.0	341.5	482.2	851.9	1253.5	5175.2	5702.5
82.5°	236.4	240.2	264.6	362.2	553.6	805.0	3465.8	3955.5
85°	167.0	167.0	182.0	262.7	377.2	510.4	1882.1	2086.6
87.5°	78.8	80.7	80.7	144.5	197.0	258.9	433.5	266.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)