

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: P194674

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194674
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-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 31286 lumens
Efficiency: N/A
Efficacy: 94.0 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 - G5

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



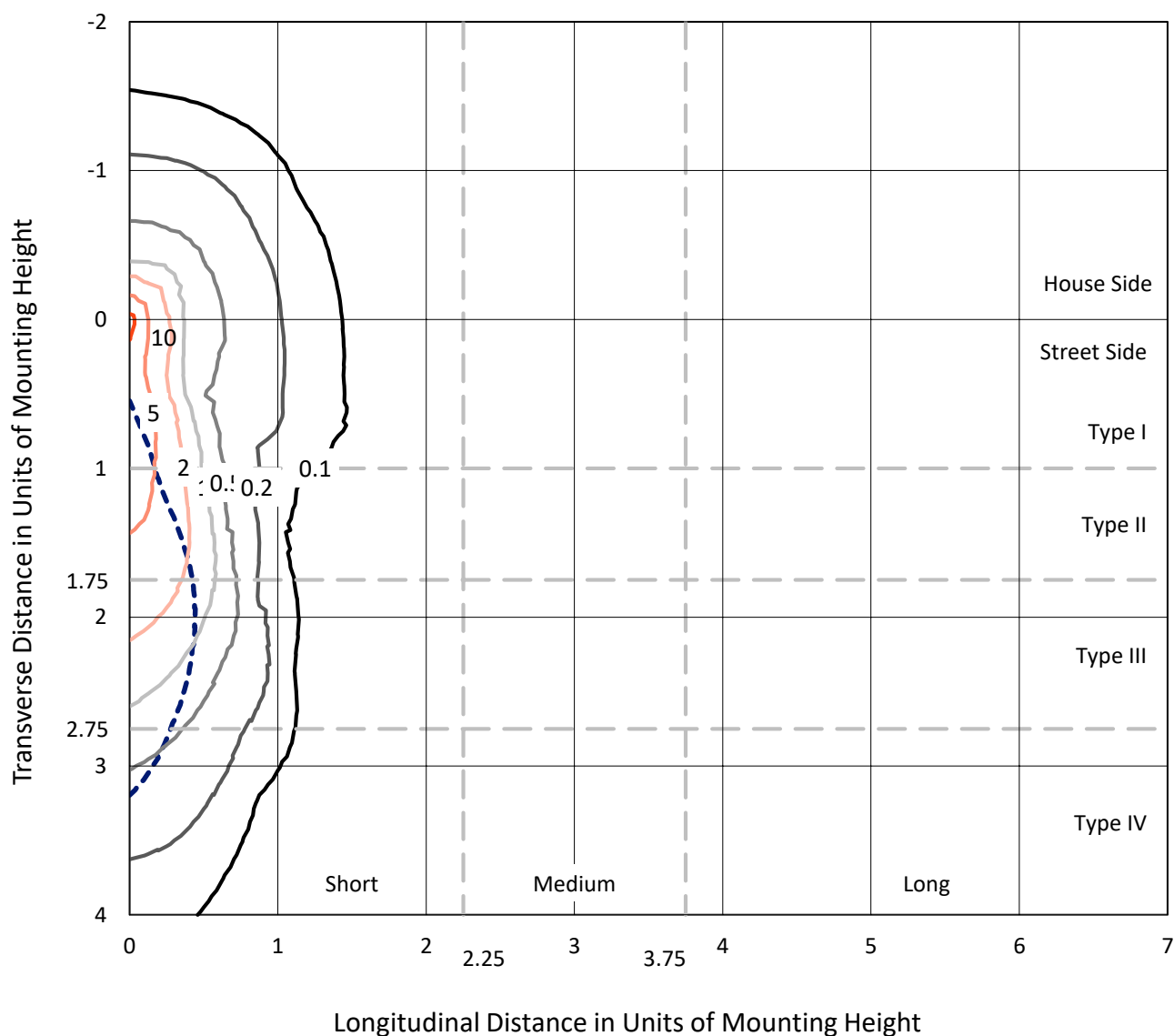
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

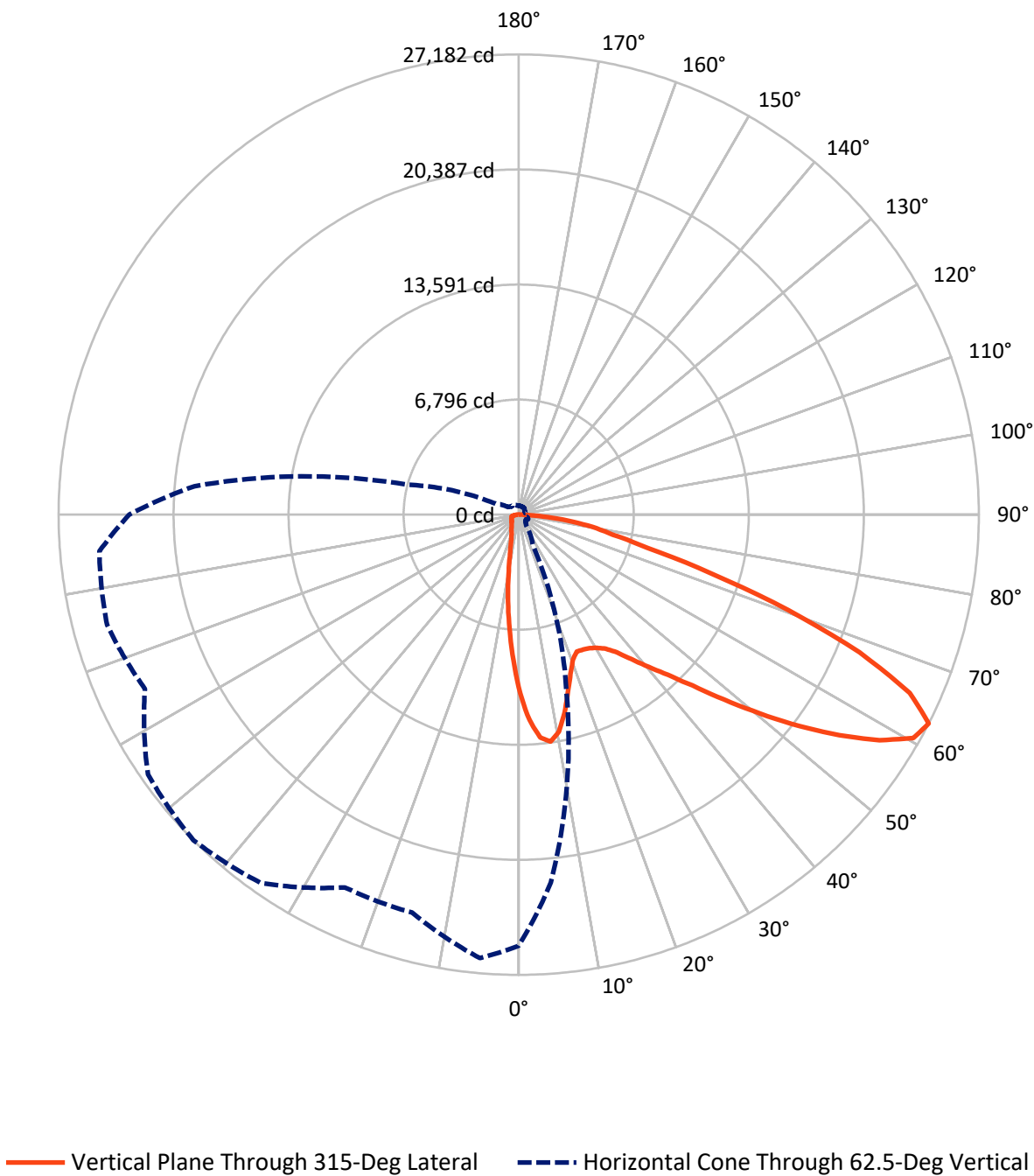


Based on 30 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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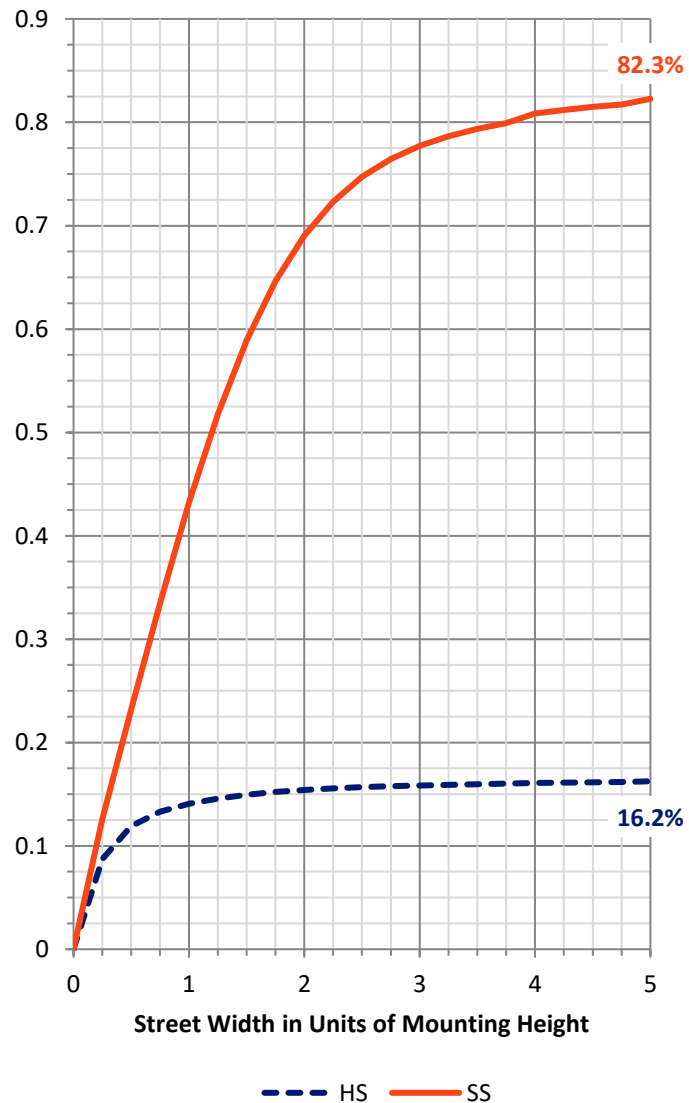
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5177.4	0.0	5177.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	26108.6	0.0	26108.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	31286.0	0.0	31286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.5	2.5
10°-20°	1411.0	4.5
20°-30°	2057.2	6.6
30°-40°	3168.4	10.1
40°-50°	4663.0	14.9
50°-60°	6839.7	21.9
60°-70°	7645.8	24.4
70°-80°	3743.3	12.0
80°-90°	988.3	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°	31286.0	100.0
0°-180°	31286.0	100.0

Coefficient of Utilization



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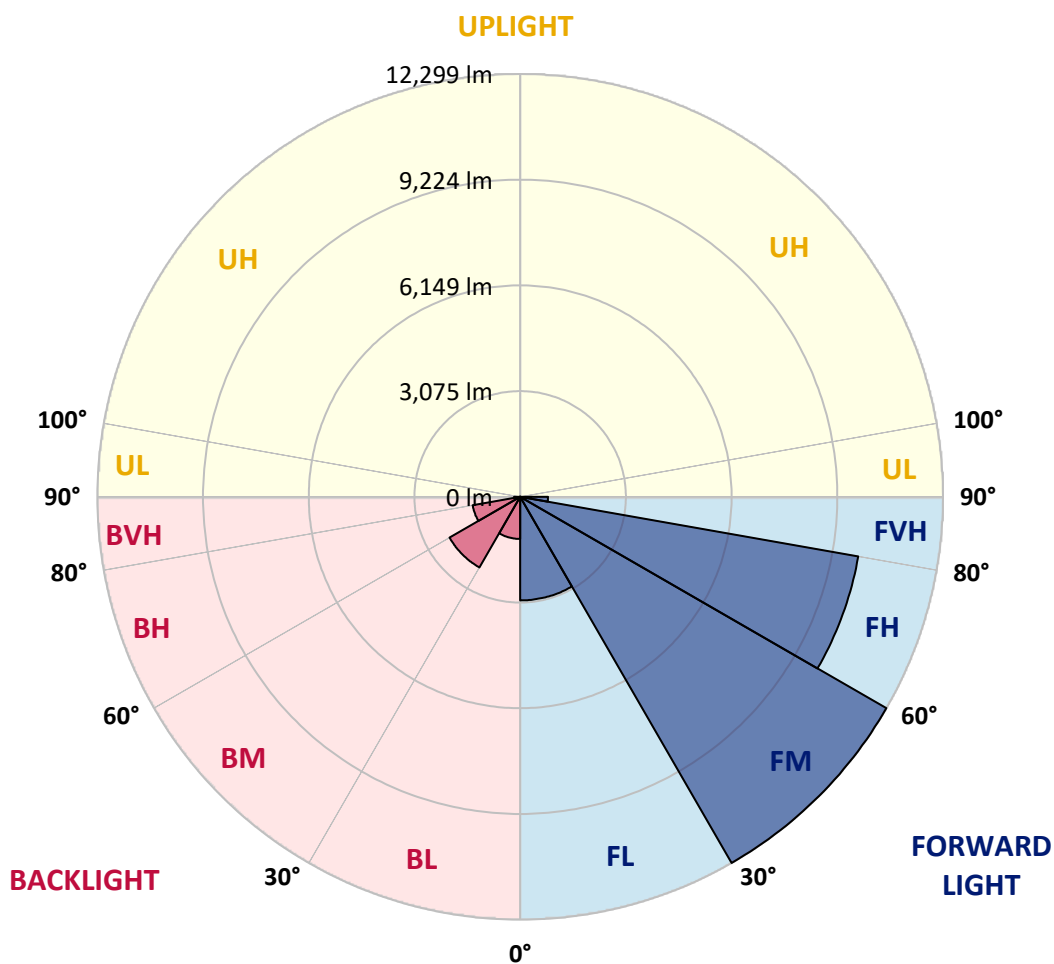
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3012.7	9.6			
FM	(30°-60°)	12298.8	39.3			
FH	(60°-80°)	9985.4	31.9			G4/12000
FVH	(80°-90°)	811.6	2.6			G5
BL	(0°-30°)	1224.9	3.9	B3/2500		
BM	(30°-60°)	2372.3	7.6	B2/2500		
BH	(60°-80°)	1403.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	176.7	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1
2.5°	10982.9	10759.3	10387.8	10000.8	9765.2	9490.0	9275.1	9085.9	8707.5	8633.6	8700.6
5°	10327.6	9878.7	9178.8	8473.6	8004.1	7500.2	7108.1	6793.3	6313.5	6229.2	6330.7
7.5°	9276.8	8740.2	7814.9	6915.5	6251.6	5622.1	5199.1	4862.0	4487.0	4325.4	4335.7
10°	8370.4	7765.0	6671.2	5692.6	5149.2	4724.4	4368.4	4022.7	3642.6	3393.2	3324.4
12.5°	7863.1	7166.5	5905.9	5032.2	4528.3	4081.2	3697.6	3327.9	2922.0	2667.5	2595.2
15°	7775.4	7018.6	5618.7	4609.2	3978.0	3412.1	2959.8	2547.1	2129.2	1922.8	1879.8
17.5°	8155.4	7283.5	5525.8	4232.5	3460.3	2762.1	2206.5	1745.6	1405.1	1301.9	1293.3
20°	8884.7	7792.6	5513.8	3878.2	2949.5	2130.9	1537.5	1202.2	1052.5	1023.3	1025.0
22.5°	9908.0	8582.0	5661.7	3611.7	2480.0	1589.1	1155.7	1006.1	947.6	920.1	920.1
25°	11232.2	9668.9	6002.2	3417.3	2072.4	1269.2	1019.9	930.4	875.4	856.5	859.9
27.5°	12515.2	10726.6	6397.8	3264.2	1805.8	1152.3	966.5	885.7	837.6	818.6	827.2
30°	13516.2	11665.6	6728.0	3056.1	1670.0	1119.6	985.5	902.9	834.1	804.9	806.6
32.5°	14345.1	12487.7	7004.9	2906.5	1549.6	959.7	849.6	813.5	804.9	770.5	753.3
35°	15404.5	13383.7	7190.6	2910.0	1492.8	856.5	756.7	693.1	646.7	607.1	607.1
37.5°	16646.3	14412.2	7388.4	2949.5	1472.2	796.3	724.0	660.4	617.4	579.6	572.7
40°	17874.2	15420.0	7569.0	2987.4	1460.1	760.2	698.3	639.8	600.2	562.4	552.1
42.5°	18918.2	16249.0	7730.7	3006.3	1418.9	756.7	679.3	626.0	588.2	546.9	536.6
45°	19690.4	16943.8	7904.4	3035.5	1377.6	770.5	679.3	624.3	577.9	538.3	528.0
47.5°	20380.0	17759.0	8195.0	3035.5	1327.7	744.7	701.7	626.0	576.1	534.9	526.3
50°	21303.6	18876.9	8745.4	2965.0	1257.2	717.2	739.5	619.1	560.7	528.0	517.7
52.5°	22576.3	20309.5	9619.0	2842.9	1148.8	663.9	734.4	615.7	545.2	510.8	498.8
55°	24081.1	21843.6	10571.8	2700.1	987.2	626.0	708.6	607.1	528.0	490.2	478.1
57.5°	25255.8	22899.6	11242.6	2480.0	846.2	605.4	627.7	598.5	507.4	467.8	457.5
60°	25723.5	22858.3	11426.6	2185.9	777.4	588.2	548.6	670.7	490.2	450.6	438.6
62.5°	25470.7	21802.3	10910.6	1979.5	761.9	565.8	514.2	620.9	476.4	438.6	421.4
65°	24303.0	19931.1	9543.4	1924.5	806.6	543.5	491.9	486.7	457.5	421.4	404.2
67.5°	21759.3	17134.7	7641.2	1929.7	863.4	521.1	469.5	445.4	431.7	402.4	387.0
70°	17722.9	13547.1	5696.1	1943.4	892.6	495.3	445.4	419.6	404.2	374.9	364.6
72.5°	13031.2	10441.1	4137.9	1854.0	897.8	466.1	412.8	390.4	374.9	344.0	335.4
75°	8915.6	7986.9	2870.4	1535.8	782.5	424.8	376.6	356.0	345.7	307.9	302.7
77.5°	6513.0	5995.3	1836.8	1140.2	603.7	373.2	331.9	316.4	309.6	268.3	261.4
80°	5226.6	4743.3	1148.8	780.8	442.0	313.0	278.6	270.0	263.1	221.9	216.7
82.5°	3625.4	3176.5	737.8	507.4	331.9	242.5	220.1	216.7	206.4	168.5	163.4
85°	1912.5	1725.0	467.8	345.7	240.8	166.8	153.1	153.1	147.9	111.8	108.3
87.5°	244.2	397.3	237.3	180.6	132.4	74.0	74.0	72.2	77.4	63.6	55.0
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°	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1
2.5°	8542.4	8625.0	8545.9	8551.0	8638.7	8900.1	9018.8	9116.8	9221.7	9290.5	9321.5
5°	6191.4	6384.0	6449.4	6587.0	6789.9	7123.5	7256.0	7352.3	7415.9	7453.8	7469.2
7.5°	4234.2	4351.2	4481.9	4703.7	5145.7	5341.8	5429.5	5407.2	5334.9	5309.1	5283.3
10°	3192.0	3145.6	3121.5	3243.6	3601.3	3799.1	3861.0	3800.8	3761.3	3769.9	3812.9
12.5°	2473.1	2392.3	2294.3	2280.5	2516.1	2693.3	2732.8	2736.3	2808.5	2872.1	2966.7
15°	1802.4	1793.8	1745.6	1716.4	1850.5	1995.0	2012.2	2043.2	2108.5	2155.0	2237.5
17.5°	1271.0	1317.4	1355.2	1374.1	1475.6	1578.8	1559.9	1544.4	1532.4	1532.4	1571.9
20°	1025.0	1056.0	1104.1	1159.2	1262.4	1334.6	1288.2	1226.2	1181.5	1167.8	1172.9
22.5°	923.6	947.6	975.1	1023.3	1116.2	1166.0	1116.2	1071.5	1026.7	1011.3	1006.1
25°	872.0	902.9	928.7	964.8	1033.6	1068.0	1019.9	987.2	959.7	940.7	927.0
27.5°	842.7	870.2	877.1	894.3	952.8	983.7	959.7	945.9	928.7	911.5	894.3
30°	811.8	806.6	794.6	796.3	842.7	873.7	872.0	875.4	873.7	868.5	865.1
32.5°	741.2	730.9	720.6	730.9	773.9	801.4	803.2	810.0	810.0	808.3	822.1
35°	617.4	636.3	648.4	679.3	730.9	755.0	744.7	727.5	696.5	677.6	675.9
37.5°	571.0	574.4	595.1	638.1	694.8	717.2	701.7	662.1	641.5	638.1	643.2
40°	548.6	552.1	564.1	603.7	660.4	682.8	669.0	639.8	620.9	619.1	627.7
42.5°	533.1	536.6	543.5	571.0	617.4	644.9	646.7	626.0	603.7	605.4	614.0
45°	524.5	526.3	524.5	538.3	581.3	614.0	627.7	614.0	595.1	598.5	608.8
47.5°	522.8	517.7	510.8	514.2	558.9	591.6	608.8	603.7	595.1	598.5	607.1
50°	516.0	503.9	495.3	493.6	538.3	572.7	588.2	588.2	591.6	598.5	607.1
52.5°	495.3	481.6	481.6	476.4	524.5	557.2	567.5	569.3	574.4	586.5	598.5
55°	469.5	464.4	469.5	460.9	514.2	545.2	550.3	553.8	557.2	567.5	584.7
57.5°	447.2	440.3	452.3	448.9	505.6	533.1	533.1	540.0	540.0	553.8	567.5
60°	435.1	421.4	426.5	430.0	493.6	522.8	519.4	526.3	529.7	541.7	552.1
62.5°	419.6	407.6	407.6	416.2	479.8	507.4	505.6	510.8	524.5	528.0	538.3
65°	400.7	395.6	390.4	400.7	466.1	490.2	491.9	498.8	510.8	514.2	522.8
67.5°	381.8	383.5	373.2	383.5	454.0	473.0	473.0	486.7	491.9	498.8	507.4
70°	361.2	362.9	354.3	366.3	445.4	454.0	452.3	471.2	474.7	479.8	488.4
72.5°	335.4	335.4	331.9	349.1	431.7	435.1	431.7	447.2	448.9	454.0	457.5
75°	307.9	307.9	304.4	328.5	423.1	414.5	404.2	416.2	419.6	423.1	423.1
77.5°	271.7	275.2	275.2	304.4	393.8	405.9	371.5	378.4	383.5	385.2	380.1
80°	227.0	235.6	239.1	276.9	330.2	374.9	331.9	337.1	338.8	338.8	331.9
82.5°	173.7	189.2	197.8	239.1	252.8	314.7	288.9	294.1	288.9	278.6	275.2
85°	120.4	141.0	151.3	182.3	190.9	242.5	240.8	240.8	230.5	216.7	215.0
87.5°	65.4	77.4	84.3	108.3	130.7	163.4	177.1	172.0	163.4	154.8	156.5
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°	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1
2.5°	9483.2	9717.1	10090.3	10375.8	10663.0	10939.9	11239.1	11467.8	11662.2	11737.9	11968.3
5°	7625.7	7918.1	8270.7	8907.0	9357.6	9854.6	10429.1	11189.2	11481.6	11885.8	12547.9
7.5°	5391.7	5656.5	6224.1	6738.3	7376.4	8079.8	8855.4	9904.5	10288.0	10936.4	12014.8
10°	4026.1	4334.0	4789.7	5223.1	5785.5	6504.4	7395.3	8568.2	9034.3	9737.7	10979.4
12.5°	3243.6	3606.5	4089.8	4497.4	4932.5	5439.8	6304.9	7591.3	8215.6	8831.3	10086.8
15°	2492.0	2872.1	3321.0	3838.7	4318.5	4865.4	5771.8	7178.6	7897.5	8539.0	9610.4
17.5°	1725.0	2050.0	2615.9	3155.9	3769.9	4469.8	5623.9	7266.3	8124.5	8864.0	9693.0
20°	1222.8	1408.5	1872.9	2498.9	3264.2	4143.1	5596.3	7727.2	8843.4	9687.8	10222.7
22.5°	1028.5	1097.3	1367.3	1941.7	2825.7	3898.9	5692.6	8373.9	9813.4	10891.7	11067.1
25°	937.3	978.6	1119.6	1523.8	2435.3	3721.7	6017.7	9337.0	11013.8	12095.6	12064.6
27.5°	887.4	930.4	1023.3	1286.4	2141.2	3611.7	6342.7	10478.9	12386.2	13402.7	13017.4
30°	872.0	930.4	1028.5	1212.5	1931.4	3437.9	6609.3	11481.6	13442.2	14284.9	13450.8
32.5°	859.9	868.5	913.2	1045.7	1731.9	3235.0	6789.9	12381.1	14475.8	15124.2	14075.1
35°	694.8	737.8	810.0	937.3	1614.9	3112.9	6789.9	13156.7	15494.0	15972.1	14670.2
37.5°	669.0	706.9	770.5	878.8	1549.6	3052.7	6654.0	13904.9	16534.5	16933.5	15160.3
40°	655.3	686.2	746.4	834.1	1522.1	2983.9	6456.3	14565.3	17550.9	17896.6	15617.8
42.5°	644.9	672.5	729.2	806.6	1485.9	2908.2	6296.3	15095.0	18433.2	18718.7	16054.6
45°	639.8	669.0	730.9	820.4	1413.7	2808.5	6243.0	15667.7	19158.9	19404.9	16527.6
47.5°	639.8	674.2	739.5	849.6	1327.7	2705.3	6409.8	16422.7	19845.2	19965.5	17084.8
50°	634.6	672.5	763.6	820.4	1202.2	2574.6	6801.9	17373.8	20588.1	20601.9	17790.0
52.5°	624.3	669.0	822.1	803.2	1057.7	2402.6	7331.6	18594.8	21687.1	21769.7	18894.1
55°	612.3	663.9	806.6	763.6	939.0	2197.9	7765.0	20079.1	23231.5	23460.2	20517.6
57.5°	596.8	657.0	780.8	708.6	861.6	1934.8	7921.6	21166.0	24309.8	24884.3	22347.5
60°	583.0	651.8	705.1	675.9	813.5	1713.0	7618.9	20951.0	24235.9	25474.2	23969.3
62.5°	569.3	657.0	643.2	655.3	791.1	1570.2	6827.7	19229.5	23009.7	24865.4	25171.5
65°	553.8	610.5	607.1	638.1	786.0	1513.5	5660.0	16648.0	20639.7	22940.9	25455.3
67.5°	533.1	564.1	581.3	615.7	803.2	1463.6	4567.9	13732.9	17346.2	20056.7	23976.2
70°	510.8	536.6	555.5	588.2	792.8	1441.2	3799.1	10829.8	13763.8	16438.2	21057.6
72.5°	481.6	503.9	521.1	552.1	782.5	1429.2	3209.2	8721.3	10276.0	12210.8	17120.9
75°	447.2	467.8	479.8	510.8	749.8	1308.8	2523.0	7379.8	7689.4	8494.3	13636.6
77.5°	407.6	423.1	433.4	467.8	663.9	1088.7	1824.7	5692.6	5971.3	6167.3	10454.9
80°	361.2	376.6	381.8	414.5	550.3	851.3	1190.1	4205.0	4466.4	4511.1	6827.7
82.5°	307.9	323.3	323.3	354.3	450.6	612.3	780.8	2880.7	2932.3	3083.7	4825.9
85°	247.7	259.7	259.7	275.2	349.1	457.5	536.6	1446.4	1430.9	1633.8	4180.9
87.5°	177.1	185.7	194.3	197.8	249.4	302.7	323.3	440.3	290.7	333.6	2684.7
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-7060

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1	10570.1
2.5°	12142.0	12240.1	12140.3	12068.1	11756.8	11500.5	11158.3	10982.9
5°	13051.8	13301.2	13216.9	12914.2	12264.1	11533.2	10702.5	10327.6
7.5°	12941.7	13521.3	13535.1	12969.3	12011.3	10934.7	9809.9	9276.8
10°	12085.3	12826.5	13038.1	12489.4	11473.0	10269.1	8979.3	8370.4
12.5°	11129.0	11854.8	12016.5	11827.3	10977.7	9768.7	8459.9	7863.1
15°	10346.5	10671.6	10864.2	11029.3	10552.9	9569.2	8430.6	7775.4
17.5°	9870.1	9834.0	9889.0	10176.3	10257.1	9797.9	8877.8	8155.4
20°	9698.1	9146.1	9132.3	9527.9	10117.8	10343.1	9751.5	8884.7
22.5°	9792.7	8898.4	8784.9	9254.4	10191.7	11129.0	10896.9	9908.0
25°	10119.5	8919.1	8827.9	9281.9	10460.0	11966.6	12133.4	11232.2
27.5°	10633.7	9049.8	8929.4	9395.4	10816.0	12670.0	13351.1	12515.2
30°	11122.2	9276.8	9127.2	9619.0	11141.1	12948.6	14097.5	13516.2
32.5°	11715.5	9701.6	9438.4	10030.1	11543.5	13392.3	14763.0	14345.1
35°	12296.8	10307.0	9980.2	10664.7	11992.4	13944.4	15523.2	15404.5
37.5°	12934.9	11098.1	10828.1	11485.0	12606.4	14465.5	16493.2	16646.3
40°	13615.9	12147.2	11827.3	12682.1	13559.2	15119.1	17506.2	17874.2
42.5°	14302.1	13311.5	12929.7	13796.5	14606.5	15764.0	18373.0	18918.2
45°	15088.1	14575.6	14395.0	15332.3	15612.6	16378.0	19012.8	19690.4
47.5°	16003.0	16009.9	16300.6	16675.5	16627.3	17072.8	19656.0	20380.0
50°	17071.1	17800.3	18441.8	18691.1	17673.0	17819.2	20548.6	21303.6
52.5°	18354.1	19941.5	20736.0	20572.6	18799.5	18730.7	21962.3	22576.3
55°	19958.7	22208.2	22997.6	22880.7	20094.5	19972.4	23723.4	24081.1
57.5°	21816.1	24404.4	25130.2	24603.9	21649.3	21334.5	25180.1	25255.8
60°	23448.2	26144.9	26781.2	26198.2	23217.8	22784.4	26089.9	25723.5
62.5°	24356.3	26734.8	27182.0	26554.2	24292.6	24328.8	26289.4	25470.7
65°	23950.4	25243.7	25388.2	25336.6	24015.8	25224.8	25572.2	24303.0
67.5°	21728.4	21473.8	21716.3	22051.7	21642.4	24045.0	23585.8	21759.3
70°	17814.0	16415.8	16899.1	17124.4	17310.1	20691.3	20471.2	17722.9
72.5°	13425.0	11500.5	11882.3	11835.9	12695.8	16596.4	15920.5	13031.2
75°	9512.4	7797.7	7845.9	7827.0	8858.9	12984.7	11528.0	8915.6
77.5°	6655.8	5649.7	5675.5	5782.1	5955.8	9792.7	8236.3	6513.0
80°	4576.5	4287.5	4430.3	4438.9	4127.6	6578.4	6084.8	5226.6
82.5°	3408.7	2980.5	2946.1	2995.9	3235.0	5329.8	4676.2	3625.4
85°	2791.3	1764.5	1418.9	1778.3	2867.0	5278.2	3106.0	1912.5
87.5°	1571.9	837.6	378.4	701.7	1143.7	3494.7	897.8	244.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)