

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: P194684

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194684
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-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA 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: 34321 lumens
Efficiency: N/A
Efficacy: 89.8 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): 382
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

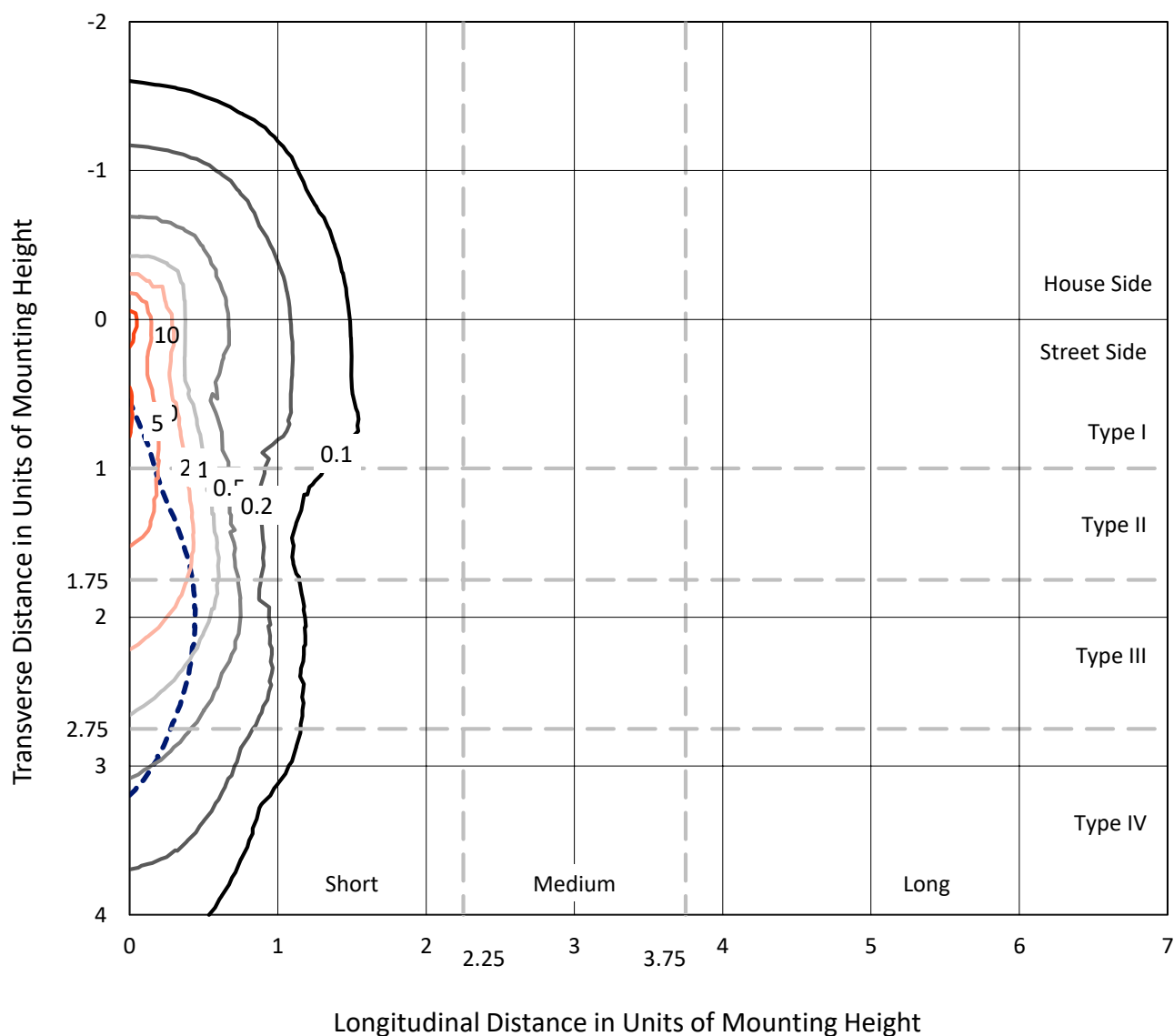


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

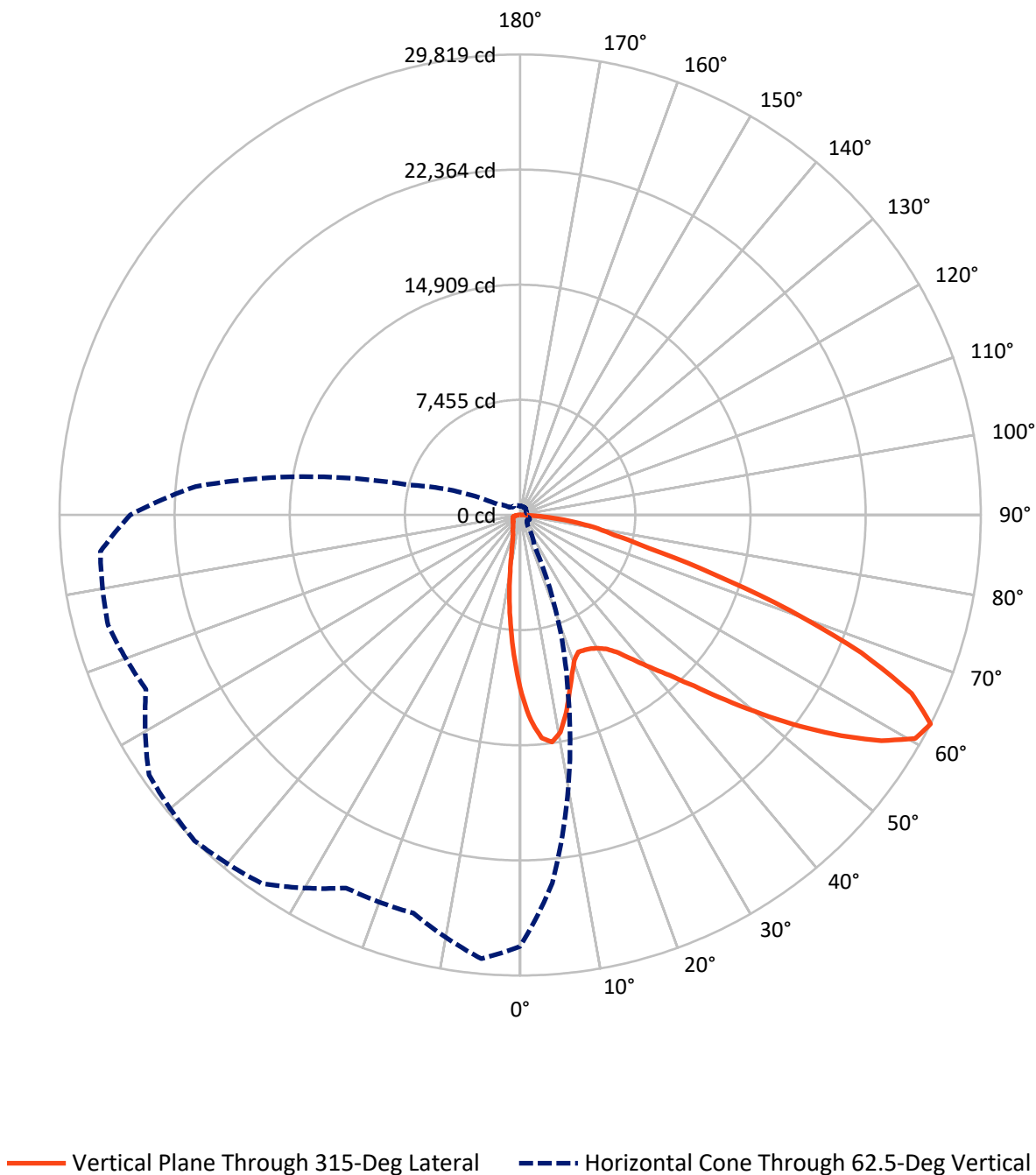


Based on 30 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5679.6	0.0	5679.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	28641.3	0.0	28641.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	34321.0	0.0	34321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	844.1	2.5
10°-20°	1547.9	4.5
20°-30°	2256.8	6.6
30°-40°	3475.7	10.1
40°-50°	5115.4	14.9
50°-60°	7503.2	21.9
60°-70°	8387.4	24.4
70°-80°	4106.4	12.0
80°-90°	1084.2	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°	34321.0	100.0
0°-180°	34321.0	100.0

Coefficient of Utilization



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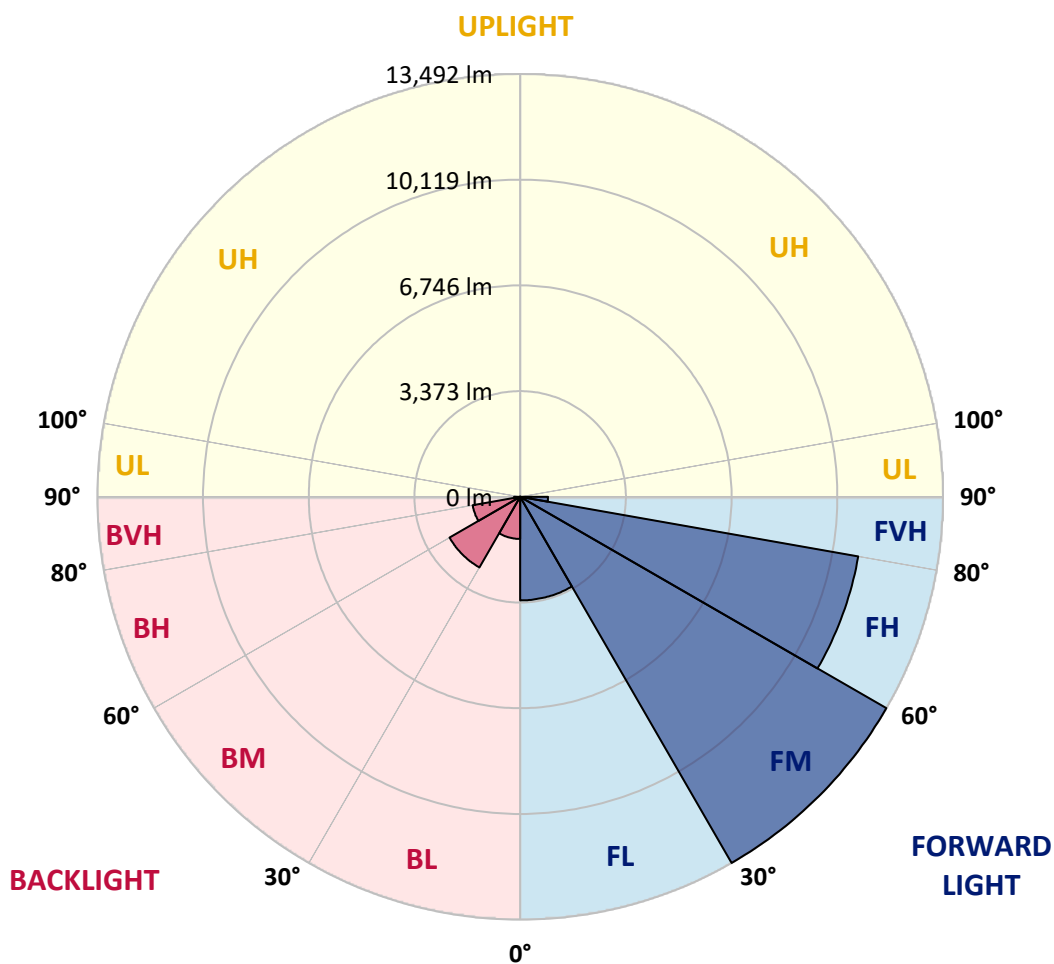
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3305.0	9.6			
FM	(30°-60°)	13491.9	39.3			
FH	(60°-80°)	10954.1	31.9			G4/12000
FVH	(80°-90°)	890.4	2.6			G5
BL	(0°-30°)	1343.7	3.9	B3/2500		
BM	(30°-60°)	2602.4	7.6	B3/5000		
BH	(60°-80°)	1539.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	193.8	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°	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5
2.5°	12048.3	11803.0	11395.5	10971.0	10712.5	10410.7	10174.8	9967.3	9552.2	9471.1	9544.7
5°	11329.5	10837.0	10069.2	9295.6	8780.6	8227.8	7797.6	7452.4	6926.0	6833.5	6944.8
7.5°	10176.7	9588.1	8573.0	7586.3	6858.1	6167.5	5703.4	5333.6	4922.3	4745.0	4756.3
10°	9182.4	8518.3	7318.4	6244.9	5648.7	5182.7	4792.1	4412.9	3996.0	3722.4	3646.9
12.5°	8625.9	7861.8	6478.8	5520.4	4967.6	4477.1	4056.3	3650.7	3205.5	2926.2	2847.0
15°	8529.6	7699.5	6163.8	5056.3	4363.9	3743.2	3247.0	2794.2	2335.7	2109.3	2062.1
17.5°	8946.6	7990.1	6061.9	4643.1	3796.0	3030.0	2420.6	1915.0	1541.4	1428.2	1418.8
20°	9746.5	8548.5	6048.7	4254.4	3235.6	2337.6	1686.7	1318.8	1154.6	1122.6	1124.5
22.5°	10869.1	9414.5	6210.9	3962.0	2720.6	1743.3	1267.8	1103.7	1039.6	1009.4	1009.4
25°	12321.9	10606.9	6584.5	3748.8	2273.4	1392.4	1118.8	1020.7	960.3	939.6	943.3
27.5°	13729.3	11767.2	7018.4	3580.9	1981.0	1264.1	1060.3	971.6	918.8	898.1	907.5
30°	14827.4	12797.3	7380.7	3352.6	1832.0	1228.2	1081.1	990.5	915.0	883.0	884.8
32.5°	15736.7	13699.1	7684.4	3188.5	1699.9	1052.8	932.0	892.4	883.0	845.2	826.4
35°	16898.9	14682.1	7888.2	3192.2	1637.6	939.6	830.1	760.3	709.4	666.0	666.0
37.5°	18261.1	15810.3	8105.1	3235.6	1615.0	873.5	794.3	724.5	677.3	635.8	628.3
40°	19608.2	16915.9	8303.2	3277.1	1601.8	833.9	766.0	701.8	658.4	616.9	605.6
42.5°	20753.4	17825.3	8480.6	3297.9	1556.5	830.1	745.2	686.7	645.2	600.0	588.6
45°	21600.5	18587.5	8671.1	3330.0	1511.2	845.2	745.2	684.9	633.9	590.5	579.2
47.5°	22357.1	19481.8	8990.0	3330.0	1456.5	816.9	769.8	686.7	632.0	586.8	577.3
50°	23370.2	20708.1	9593.7	3252.6	1379.2	786.7	811.3	679.2	615.1	579.2	567.9
52.5°	24766.3	22279.7	10552.2	3118.7	1260.3	728.3	805.6	675.4	598.1	560.3	547.1
55°	26417.2	23962.6	11597.4	2962.1	1082.9	686.7	777.3	666.0	579.2	537.7	524.5
57.5°	27705.8	25121.0	12333.2	2720.6	928.2	664.1	688.6	656.6	556.6	513.2	501.9
60°	28218.9	25075.7	12535.0	2398.0	852.8	645.2	601.8	735.8	537.7	494.3	481.1
62.5°	27941.6	23917.3	11969.0	2171.6	835.8	620.7	564.1	681.1	522.6	481.1	462.2
65°	26660.6	21864.6	10469.1	2111.2	884.8	596.2	539.6	533.9	501.9	462.2	443.4
67.5°	23870.2	18796.9	8382.5	2116.8	947.1	571.7	515.1	488.6	473.6	441.5	424.5
70°	19442.1	14861.3	6248.7	2131.9	979.2	543.4	488.6	460.3	443.4	411.3	400.0
72.5°	14295.3	11454.0	4539.3	2033.8	984.8	511.3	452.8	428.3	411.3	377.3	367.9
75°	9780.5	8761.7	3148.9	1684.8	858.4	466.0	413.2	390.5	379.2	337.7	332.1
77.5°	7144.8	6576.9	2015.0	1250.9	662.2	409.4	364.1	347.1	339.6	294.3	286.8
80°	5733.6	5203.4	1260.3	856.5	484.9	343.4	305.6	296.2	288.7	243.4	237.7
82.5°	3977.1	3484.7	809.4	556.6	364.1	266.0	241.5	237.7	226.4	184.9	179.2
85°	2098.0	1892.3	513.2	379.2	264.1	183.0	167.9	167.9	162.3	122.6	118.9
87.5°	267.9	435.8	260.4	198.1	145.3	81.1	81.1	79.2	84.9	69.8	60.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5
2.5°	9371.1	9461.7	9374.9	9380.5	9476.8	9763.5	9893.7	10001.2	10116.3	10191.8	10225.8
5°	6792.0	7003.3	7075.0	7226.0	7448.6	7814.6	7959.9	8065.5	8135.3	8176.8	8193.8
7.5°	4645.0	4773.3	4916.7	5160.0	5644.9	5860.0	5956.2	5931.7	5852.5	5824.2	5795.9
10°	3501.7	3450.7	3424.3	3558.3	3950.7	4167.7	4235.6	4169.5	4126.2	4135.6	4182.8
12.5°	2713.0	2624.4	2516.8	2501.7	2760.2	2954.5	2997.9	3001.7	3080.9	3150.7	3254.5
15°	1977.2	1967.8	1915.0	1882.9	2030.1	2188.5	2207.4	2241.4	2313.1	2364.0	2454.6
17.5°	1394.3	1445.2	1486.7	1507.5	1618.8	1732.0	1711.2	1694.2	1681.0	1681.0	1724.4
20°	1124.5	1158.4	1211.2	1271.6	1384.8	1464.1	1413.1	1345.2	1296.1	1281.0	1286.7
22.5°	1013.1	1039.6	1069.7	1122.6	1224.4	1279.2	1224.4	1175.4	1126.3	1109.4	1103.7
25°	956.5	990.5	1018.8	1058.4	1133.9	1171.6	1118.8	1082.9	1052.8	1032.0	1016.9
27.5°	924.5	954.7	962.2	981.1	1045.2	1079.2	1052.8	1037.7	1018.8	999.9	981.1
30°	890.5	884.8	871.6	873.5	924.5	958.4	956.5	960.3	958.4	952.8	949.0
32.5°	813.2	801.8	790.5	801.8	849.0	879.2	881.1	888.6	888.6	886.7	901.8
35°	677.3	698.1	711.3	745.2	801.8	828.2	816.9	798.1	764.1	743.3	741.5
37.5°	626.4	630.1	652.8	700.0	762.2	786.7	769.8	726.4	703.7	700.0	705.6
40°	601.8	605.6	618.8	662.2	724.5	749.0	733.9	701.8	681.1	679.2	688.6
42.5°	584.9	588.6	596.2	626.4	677.3	707.5	709.4	686.7	662.2	664.1	673.5
45°	575.4	577.3	575.4	590.5	637.7	673.5	688.6	673.5	652.8	656.6	667.9
47.5°	573.5	567.9	560.3	564.1	613.2	649.0	667.9	662.2	652.8	656.6	666.0
50°	566.0	552.8	543.4	541.5	590.5	628.3	645.2	645.2	649.0	656.6	666.0
52.5°	543.4	528.3	528.3	522.6	575.4	611.3	622.6	624.5	630.1	643.4	656.6
55°	515.1	509.4	515.1	505.6	564.1	598.1	603.7	607.5	611.3	622.6	641.5
57.5°	490.5	483.0	496.2	492.4	554.7	584.9	584.9	592.4	592.4	607.5	622.6
60°	477.3	462.2	467.9	471.7	541.5	573.5	569.8	577.3	581.1	594.3	605.6
62.5°	460.3	447.1	447.1	456.6	526.4	556.6	554.7	560.3	575.4	579.2	590.5
65°	439.6	433.9	428.3	439.6	511.3	537.7	539.6	547.1	560.3	564.1	573.5
67.5°	418.8	420.7	409.4	420.7	498.1	518.8	518.8	533.9	539.6	547.1	556.6
70°	396.2	398.1	388.7	401.9	488.6	498.1	496.2	516.9	520.7	526.4	535.8
72.5°	367.9	367.9	364.1	383.0	473.6	477.3	473.6	490.5	492.4	498.1	501.9
75°	337.7	337.7	333.9	360.4	464.1	454.7	443.4	456.6	460.3	464.1	464.1
77.5°	298.1	301.9	301.9	333.9	432.0	445.3	407.5	415.1	420.7	422.6	417.0
80°	249.0	258.5	262.2	303.8	362.2	411.3	364.1	369.8	371.7	371.7	364.1
82.5°	190.6	207.5	217.0	262.2	277.3	345.3	317.0	322.6	317.0	305.6	301.9
85°	132.1	154.7	166.0	200.0	209.4	266.0	264.1	264.1	252.8	237.7	235.8
87.5°	71.7	84.9	92.4	118.9	143.4	179.2	194.3	188.7	179.2	169.8	171.7
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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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5
2.5°	10403.1	10659.7	11069.1	11382.3	11697.4	12001.1	12329.4	12580.3	12793.5	12876.5	13129.3
5°	8365.5	8686.2	9073.0	9771.1	10265.4	10810.6	11440.8	12274.7	12595.4	13038.8	13765.2
7.5°	5914.7	6205.3	6827.9	7392.0	8091.9	8863.6	9714.5	10865.3	11286.1	11997.3	13180.3
10°	4416.7	4754.4	5254.4	5729.8	6346.8	7135.4	8112.7	9399.4	9910.7	10682.3	12044.5
12.5°	3558.3	3956.3	4486.5	4933.6	5411.0	5967.5	6916.5	8327.8	9012.6	9688.1	11065.3
15°	2733.8	3150.7	3643.2	4211.1	4737.4	5337.4	6331.7	7875.0	8663.6	9367.3	10542.7
17.5°	1892.3	2248.9	2869.6	3462.0	4135.6	4903.5	6169.4	7971.2	8912.6	9723.9	10633.3
20°	1341.4	1545.2	2054.6	2741.3	3580.9	4545.0	6139.2	8476.8	9701.3	10627.6	11214.4
22.5°	1128.2	1203.7	1499.9	2130.1	3099.8	4277.1	6244.9	9186.2	10765.3	11948.3	12140.7
25°	1028.2	1073.5	1228.2	1671.6	2671.5	4082.8	6601.5	10242.7	12082.2	13269.0	13235.0
27.5°	973.5	1020.7	1122.6	1411.2	2348.9	3962.0	6958.0	11495.5	13587.8	14702.8	14280.2
30°	956.5	1020.7	1128.2	1330.1	2118.7	3771.5	7250.5	12595.4	14746.2	15670.7	14755.7
32.5°	943.3	952.8	1001.8	1147.1	1899.9	3548.8	7448.6	13582.1	15880.1	16591.4	15440.5
35°	762.2	809.4	888.6	1028.2	1771.6	3414.9	7448.6	14433.0	16997.0	17521.5	16093.3
37.5°	733.9	775.4	845.2	964.1	1699.9	3348.8	7299.5	15253.7	18138.5	18576.2	16631.0
40°	718.8	752.8	818.8	915.0	1669.7	3273.4	7082.6	15978.2	19253.5	19632.7	17132.9
42.5°	707.5	737.7	799.9	884.8	1630.1	3190.4	6907.1	16559.3	20221.3	20534.5	17612.1
45°	701.8	733.9	801.8	899.9	1550.8	3080.9	6848.6	17187.6	21017.5	21287.3	18130.9
47.5°	701.8	739.6	811.3	932.0	1456.5	2967.7	7031.6	18015.8	21770.3	21902.4	18742.2
50°	696.2	737.7	837.7	899.9	1318.8	2824.3	7461.8	19059.2	22585.3	22600.4	19515.7
52.5°	684.9	733.9	901.8	881.1	1160.3	2635.7	8042.9	20398.7	23790.9	23881.5	20727.0
55°	671.7	728.3	884.8	837.7	1030.1	2411.2	8518.3	22026.9	25485.2	25736.1	22508.0
57.5°	654.7	720.7	856.5	777.3	945.2	2122.5	8690.0	23219.3	26668.1	27298.2	24515.4
60°	639.6	715.0	773.5	741.5	892.4	1879.1	8358.0	22983.4	26587.0	27945.4	26294.5
62.5°	624.5	720.7	705.6	718.8	867.9	1722.5	7490.1	21094.9	25241.8	27277.5	27613.3
65°	607.5	669.8	666.0	700.0	862.2	1660.3	6209.0	18263.0	22641.9	25166.3	27924.6
67.5°	584.9	618.8	637.7	675.4	881.1	1605.6	5011.0	15065.1	19029.0	22002.4	26302.1
70°	560.3	588.6	609.4	645.2	869.8	1581.0	4167.7	11880.4	15099.0	18032.8	23100.4
72.5°	528.3	552.8	571.7	605.6	858.4	1567.8	3520.5	9567.3	11272.9	13395.4	18781.8
75°	490.5	513.2	526.4	560.3	822.6	1435.8	2767.7	8095.7	8435.3	9318.3	14959.4
77.5°	447.1	464.1	475.4	513.2	728.3	1194.3	2001.8	6244.9	6550.5	6765.6	11469.1
80°	396.2	413.2	418.8	454.7	603.7	933.9	1305.6	4612.9	4899.7	4948.7	7490.1
82.5°	337.7	354.7	354.7	388.7	494.3	671.7	856.5	3160.2	3216.8	3382.8	5294.0
85°	271.7	284.9	284.9	301.9	383.0	501.9	588.6	1586.7	1569.7	1792.3	4586.5
87.5°	194.3	203.8	213.2	217.0	273.6	332.1	354.7	483.0	318.8	366.0	2945.1
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-06-LED-E1-SLR-7060-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5	11595.5
2.5°	13319.9	13427.4	13318.0	13238.8	12897.3	12616.2	12240.7	12048.3
5°	14317.9	14591.5	14499.1	14167.0	13453.9	12652.0	11740.8	11329.5
7.5°	14197.2	14833.0	14848.1	14227.4	13176.5	11995.5	10761.6	10176.7
10°	13257.6	14070.8	14302.9	13701.0	12586.0	11265.3	9850.3	9182.4
12.5°	12208.7	13004.8	13182.2	12974.6	12042.6	10716.3	9280.5	8625.9
15°	11350.2	11706.8	11918.1	12099.2	11576.6	10497.4	9248.5	8529.6
17.5°	10827.6	10788.0	10848.4	11163.4	11252.1	10748.4	9739.0	8946.6
20°	10638.9	10033.3	10018.2	10452.2	11099.3	11346.4	10697.4	9746.5
22.5°	10742.7	9761.6	9637.1	10152.2	11180.4	12208.7	11954.0	10869.1
25°	11101.2	9784.3	9684.3	10182.4	11474.7	13127.5	13310.5	12321.9
27.5°	11665.3	9927.7	9795.6	10306.9	11865.3	13899.1	14646.2	13729.3
30°	12201.1	10176.7	10012.6	10552.2	12221.9	14204.7	15465.0	14827.4
32.5°	12852.0	10642.7	10354.1	11003.1	12663.3	14691.5	16195.2	15736.7
35°	13489.7	11306.8	10948.4	11699.2	13155.8	15297.1	17029.1	16898.9
37.5°	14189.7	12174.7	11878.5	12599.2	13829.3	15868.8	18093.2	18261.1
40°	14936.8	13325.6	12974.6	13912.3	14874.5	16585.7	19204.4	19608.2
42.5°	15689.6	14602.8	14184.0	15134.9	16023.5	17293.2	20155.3	20753.4
45°	16551.8	15989.5	15791.4	16819.7	17127.2	17966.8	20857.2	21600.5
47.5°	17555.5	17563.0	17881.9	18293.2	18240.3	18729.0	21562.8	22357.1
50°	18727.1	19527.0	20230.8	20504.3	19387.4	19547.8	22542.0	23370.2
52.5°	20134.6	21876.0	22747.6	22568.4	20623.2	20547.7	24092.8	24766.3
55°	21894.8	24362.6	25228.6	25100.3	22043.9	21909.9	26024.7	26417.2
57.5°	23932.4	26771.9	27568.0	26990.7	23749.4	23404.2	27622.8	27705.8
60°	25722.9	28681.2	29379.2	28739.7	25470.1	24994.6	28620.8	28218.9
62.5°	26719.0	29328.3	29818.8	29130.2	26649.2	26688.9	28839.7	27941.6
65°	26273.8	27692.6	27851.0	27794.4	26345.5	27671.8	28052.9	26660.6
67.5°	23836.2	23557.0	23823.0	24190.9	23741.9	26377.6	25873.8	23870.2
70°	19542.1	18008.3	18538.4	18785.6	18989.3	22698.5	22457.0	19442.1
72.5°	14727.4	12616.2	13035.0	12984.1	13927.4	18206.4	17464.9	14295.3
75°	10435.2	8554.2	8607.0	8586.2	9718.2	14244.4	12646.4	9780.5
77.5°	7301.4	6197.7	6226.0	6343.0	6533.5	10742.7	9035.3	7144.8
80°	5020.4	4703.5	4860.1	4869.5	4528.0	7216.5	6675.0	5733.6
82.5°	3739.4	3269.6	3231.9	3286.6	3548.8	5846.8	5129.9	3977.1
85°	3062.1	1935.7	1556.5	1950.8	3145.1	5790.2	3407.3	2098.0
87.5°	1724.4	918.8	415.1	769.8	1254.6	3833.7	984.8	267.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)