

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: P192104

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192104
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-SLL-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA 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: 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

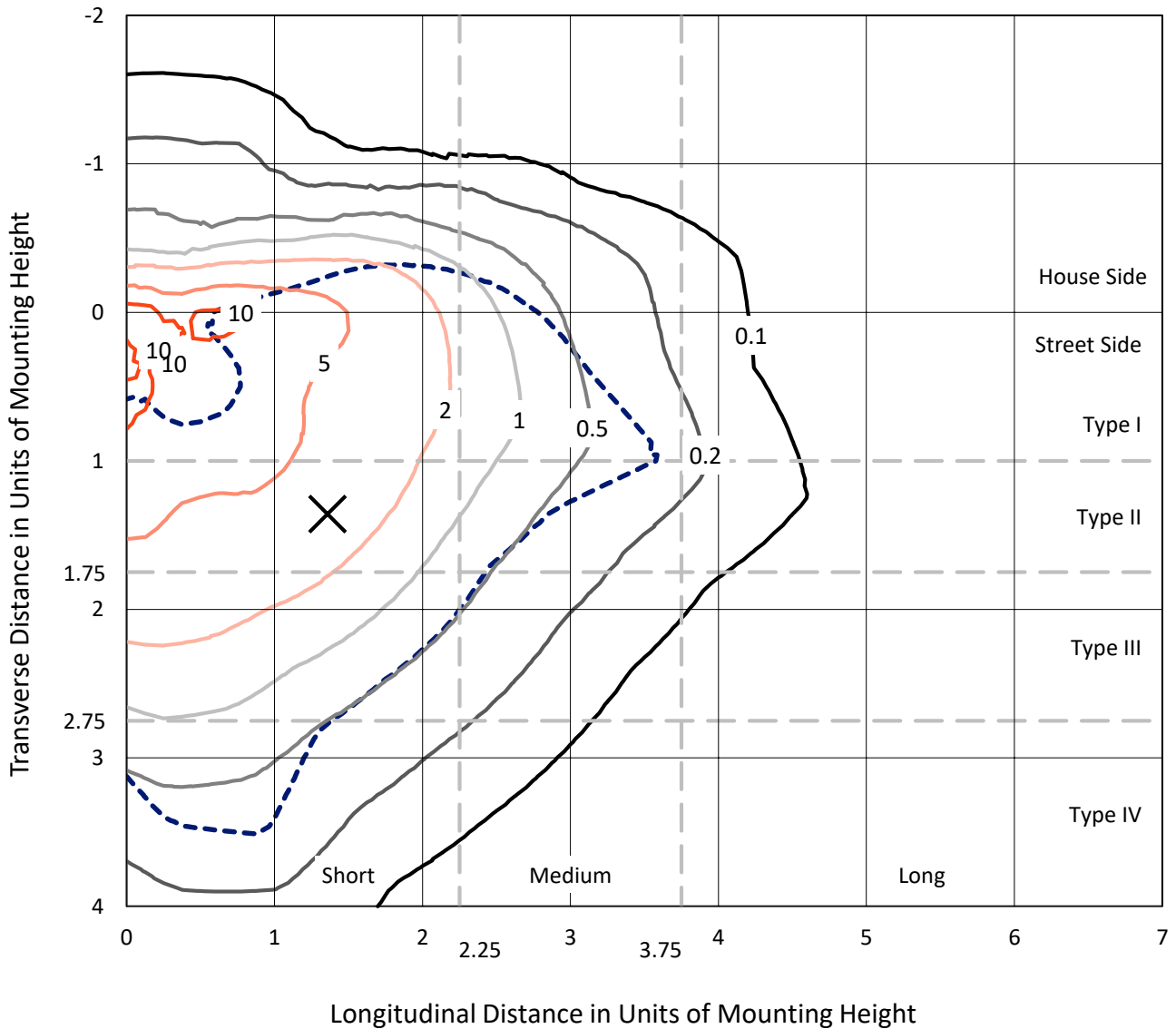


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

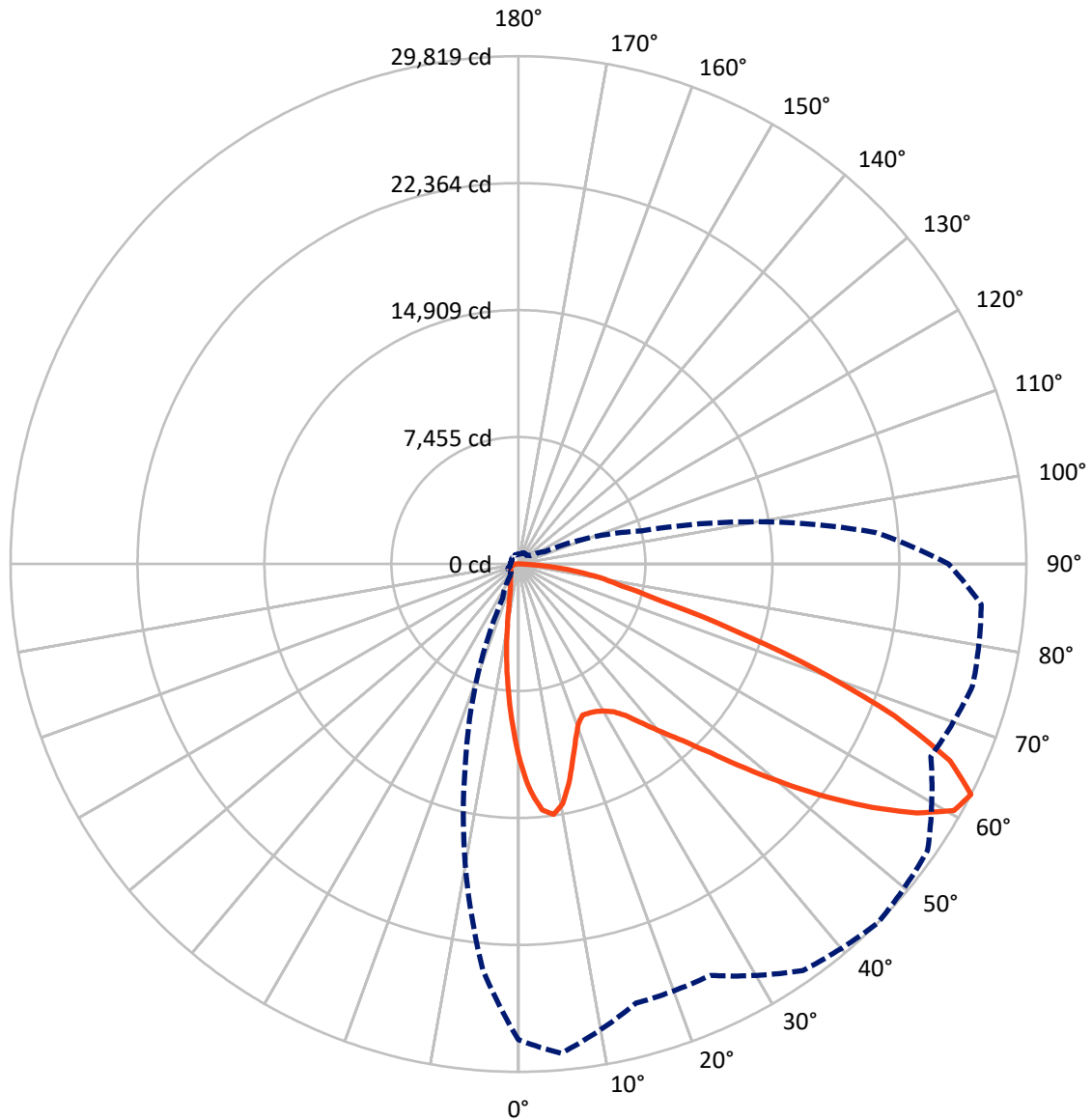


Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type IV - Short - Non-Cutoff

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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	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

Coefficient of Utilization

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



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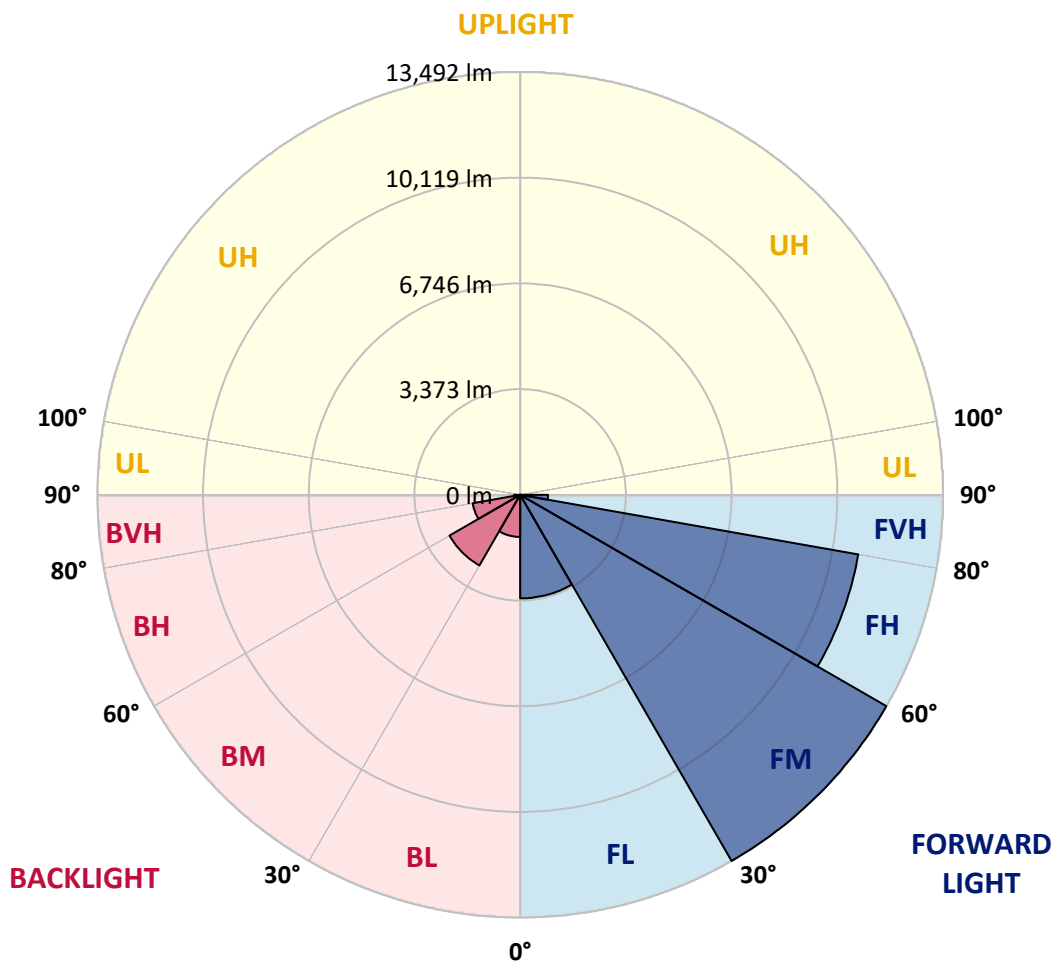
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	12240.7	12616.2	12897.3	13238.8	13318.0	13427.4	13319.9	13129.3	12876.5	12793.5
5°	11329.5	11740.8	12652.0	13453.9	14167.0	14499.1	14591.5	14317.9	13765.2	13038.8	12595.4
7.5°	10176.7	10761.6	11995.5	13176.5	14227.4	14848.1	14833.0	14197.2	13180.3	11997.3	11286.1
10°	9182.4	9850.3	11265.3	12586.0	13701.0	14302.9	14070.8	13257.6	12044.5	10682.3	9910.7
12.5°	8625.9	9280.5	10716.3	12042.6	12974.6	13182.2	13004.8	12208.7	11065.3	9688.1	9012.6
15°	8529.6	9248.5	10497.4	11576.6	12099.2	11918.1	11706.8	11350.2	10542.7	9367.3	8663.6
17.5°	8946.6	9739.0	10748.4	11252.1	11163.4	10848.4	10788.0	10827.6	10633.3	9723.9	8912.6
20°	9746.5	10697.4	11346.4	11099.3	10452.2	10018.2	10033.3	10638.9	11214.4	10627.6	9701.3
22.5°	10869.1	11954.0	12208.7	11180.4	10152.2	9637.1	9761.6	10742.7	12140.7	11948.3	10765.3
25°	12321.9	13310.5	13127.5	11474.7	10182.4	9684.3	9784.3	11101.2	13235.0	13269.0	12082.2
27.5°	13729.3	14646.2	13899.1	11865.3	10306.9	9795.6	9927.7	11665.3	14280.2	14702.8	13587.8
30°	14827.4	15465.0	14204.7	12221.9	10552.2	10012.6	10176.7	12201.1	14755.7	15670.7	14746.2
32.5°	15736.7	16195.2	14691.5	12663.3	11003.1	10354.1	10642.7	12852.0	15440.5	16591.4	15880.1
35°	16898.9	17029.1	15297.1	13155.8	11699.2	10948.4	11306.8	13489.7	16093.3	17521.5	16997.0
37.5°	18261.1	18093.2	15868.8	13829.3	12599.2	11878.5	12174.7	14189.7	16631.0	18576.2	18138.5
40°	19608.2	19204.4	16585.7	14874.5	13912.3	12974.6	13325.6	14936.8	17132.9	19632.7	19253.5
42.5°	20753.4	20155.3	17293.2	16023.5	15134.9	14184.0	14602.8	15689.6	17612.1	20534.5	20221.3
45°	21600.5	20857.2	17966.8	17127.2	16819.7	15791.4	15989.5	16551.8	18130.9	21287.3	21017.5
47.5°	22357.1	21562.8	18729.0	18240.3	18293.2	17881.9	17563.0	17555.5	18742.2	21902.4	21770.3
50°	23370.2	22542.0	19547.8	19387.4	20504.3	20230.8	19527.0	18727.1	19515.7	22600.4	22585.3
52.5°	24766.3	24092.8	20547.7	20623.2	22568.4	22747.6	21876.0	20134.6	20727.0	23881.5	23790.9
55°	26417.2	26024.7	21909.9	22043.9	25100.3	25228.6	24362.6	21894.8	22508.0	25736.1	25485.2
57.5°	27705.8	27622.8	23404.2	23749.4	26990.7	27568.0	26771.9	23932.4	24515.4	27298.2	26668.1
60°	28218.9	28620.8	24994.6	25470.1	28739.7	29379.2	28681.2	25722.9	26294.5	27945.4	26587.0
62.5°	27941.6	28839.7	26688.9	26649.2	29130.2	29818.8	29328.3	26719.0	27613.3	27277.5	25241.8
65°	26660.6	28052.9	27671.8	26345.5	27794.4	27851.0	27692.6	26273.8	27924.6	25166.3	22641.9
67.5°	23870.2	25873.8	26377.6	23741.9	24190.9	23823.0	23557.0	23836.2	26302.1	22002.4	19029.0
70°	19442.1	22457.0	22698.5	18989.3	18785.6	18538.4	18008.3	19542.1	23100.4	18032.8	15099.0
72.5°	14295.3	17464.9	18206.4	13927.4	12984.1	13035.0	12616.2	14727.4	18781.8	13395.4	11272.9
75°	9780.5	12646.4	14244.4	9718.2	8586.2	8607.0	8554.2	10435.2	14959.4	9318.3	8435.3
77.5°	7144.8	9035.3	10742.7	6533.5	6343.0	6226.0	6197.7	7301.4	11469.1	6765.6	6550.5
80°	5733.6	6675.0	7216.5	4528.0	4869.5	4860.1	4703.5	5020.4	7490.1	4948.7	4899.7
82.5°	3977.1	5129.9	5846.8	3548.8	3286.6	3231.9	3269.6	3739.4	5294.0	3382.8	3216.8
85°	2098.0	3407.3	5790.2	3145.1	1950.8	1556.5	1935.7	3062.1	4586.5	1792.3	1569.7
87.5°	267.9	984.8	3833.7	1254.6	769.8	415.1	918.8	1724.4	2945.1	366.0	318.8
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):

	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°	12580.3	12329.4	12001.1	11697.4	11382.3	11069.1	10659.7	10403.1	10225.8	10191.8	10116.3
5°	12274.7	11440.8	10810.6	10265.4	9771.1	9073.0	8686.2	8365.5	8193.8	8176.8	8135.3
7.5°	10865.3	9714.5	8863.6	8091.9	7392.0	6827.9	6205.3	5914.7	5795.9	5824.2	5852.5
10°	9399.4	8112.7	7135.4	6346.8	5729.8	5254.4	4754.4	4416.7	4182.8	4135.6	4126.2
12.5°	8327.8	6916.5	5967.5	5411.0	4933.6	4486.5	3956.3	3558.3	3254.5	3150.7	3080.9
15°	7875.0	6331.7	5337.4	4737.4	4211.1	3643.2	3150.7	2733.8	2454.6	2364.0	2313.1
17.5°	7971.2	6169.4	4903.5	4135.6	3462.0	2869.6	2248.9	1892.3	1724.4	1681.0	1681.0
20°	8476.8	6139.2	4545.0	3580.9	2741.3	2054.6	1545.2	1341.4	1286.7	1281.0	1296.1
22.5°	9186.2	6244.9	4277.1	3099.8	2130.1	1499.9	1203.7	1128.2	1103.7	1109.4	1126.3
25°	10242.7	6601.5	4082.8	2671.5	1671.6	1228.2	1073.5	1028.2	1016.9	1032.0	1052.8
27.5°	11495.5	6958.0	3962.0	2348.9	1411.2	1122.6	1020.7	973.5	981.1	999.9	1018.8
30°	12595.4	7250.5	3771.5	2118.7	1330.1	1128.2	1020.7	956.5	949.0	952.8	958.4
32.5°	13582.1	7448.6	3548.8	1899.9	1147.1	1001.8	952.8	943.3	901.8	886.7	888.6
35°	14433.0	7448.6	3414.9	1771.6	1028.2	888.6	809.4	762.2	741.5	743.3	764.1
37.5°	15253.7	7299.5	3348.8	1699.9	964.1	845.2	775.4	733.9	705.6	700.0	703.7
40°	15978.2	7082.6	3273.4	1669.7	915.0	818.8	752.8	718.8	688.6	679.2	681.1
42.5°	16559.3	6907.1	3190.4	1630.1	884.8	799.9	737.7	707.5	673.5	664.1	662.2
45°	17187.6	6848.6	3080.9	1550.8	899.9	801.8	733.9	701.8	667.9	656.6	652.8
47.5°	18015.8	7031.6	2967.7	1456.5	932.0	811.3	739.6	701.8	666.0	656.6	652.8
50°	19059.2	7461.8	2824.3	1318.8	899.9	837.7	737.7	696.2	666.0	656.6	649.0
52.5°	20398.7	8042.9	2635.7	1160.3	881.1	901.8	733.9	684.9	656.6	643.4	630.1
55°	22026.9	8518.3	2411.2	1030.1	837.7	884.8	728.3	671.7	641.5	622.6	611.3
57.5°	23219.3	8690.0	2122.5	945.2	777.3	856.5	720.7	654.7	622.6	607.5	592.4
60°	22983.4	8358.0	1879.1	892.4	741.5	773.5	715.0	639.6	605.6	594.3	581.1
62.5°	21094.9	7490.1	1722.5	867.9	718.8	705.6	720.7	624.5	590.5	579.2	575.4
65°	18263.0	6209.0	1660.3	862.2	700.0	666.0	669.8	607.5	573.5	564.1	560.3
67.5°	15065.1	5011.0	1605.6	881.1	675.4	637.7	618.8	584.9	556.6	547.1	539.6
70°	11880.4	4167.7	1581.0	869.8	645.2	609.4	588.6	560.3	535.8	526.4	520.7
72.5°	9567.3	3520.5	1567.8	858.4	605.6	571.7	552.8	528.3	501.9	498.1	492.4
75°	8095.7	2767.7	1435.8	822.6	560.3	526.4	513.2	490.5	464.1	464.1	460.3
77.5°	6244.9	2001.8	1194.3	728.3	513.2	475.4	464.1	447.1	417.0	422.6	420.7
80°	4612.9	1305.6	933.9	603.7	454.7	418.8	413.2	396.2	364.1	371.7	371.7
82.5°	3160.2	856.5	671.7	494.3	388.7	354.7	354.7	337.7	301.9	305.6	317.0
85°	1586.7	588.6	501.9	383.0	301.9	284.9	284.9	271.7	235.8	237.7	252.8
87.5°	483.0	354.7	332.1	273.6	217.0	213.2	203.8	194.3	171.7	169.8	179.2
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°	10001.2	9893.7	9763.5	9476.8	9380.5	9374.9	9461.7	9371.1	9544.7	9471.1	9552.2
5°	8065.5	7959.9	7814.6	7448.6	7226.0	7075.0	7003.3	6792.0	6944.8	6833.5	6926.0
7.5°	5931.7	5956.2	5860.0	5644.9	5160.0	4916.7	4773.3	4645.0	4756.3	4745.0	4922.3
10°	4169.5	4235.6	4167.7	3950.7	3558.3	3424.3	3450.7	3501.7	3646.9	3722.4	3996.0
12.5°	3001.7	2997.9	2954.5	2760.2	2501.7	2516.8	2624.4	2713.0	2847.0	2926.2	3205.5
15°	2241.4	2207.4	2188.5	2030.1	1882.9	1915.0	1967.8	1977.2	2062.1	2109.3	2335.7
17.5°	1694.2	1711.2	1732.0	1618.8	1507.5	1486.7	1445.2	1394.3	1418.8	1428.2	1541.4
20°	1345.2	1413.1	1464.1	1384.8	1271.6	1211.2	1158.4	1124.5	1124.5	1122.6	1154.6
22.5°	1175.4	1224.4	1279.2	1224.4	1122.6	1069.7	1039.6	1013.1	1009.4	1009.4	1039.6
25°	1082.9	1118.8	1171.6	1133.9	1058.4	1018.8	990.5	956.5	943.3	939.6	960.3
27.5°	1037.7	1052.8	1079.2	1045.2	981.1	962.2	954.7	924.5	907.5	898.1	918.8
30°	960.3	956.5	958.4	924.5	873.5	871.6	884.8	890.5	884.8	883.0	915.0
32.5°	888.6	881.1	879.2	849.0	801.8	790.5	801.8	813.2	826.4	845.2	883.0
35°	798.1	816.9	828.2	801.8	745.2	711.3	698.1	677.3	666.0	666.0	709.4
37.5°	726.4	769.8	786.7	762.2	700.0	652.8	630.1	626.4	628.3	635.8	677.3
40°	701.8	733.9	749.0	724.5	662.2	618.8	605.6	601.8	605.6	616.9	658.4
42.5°	686.7	709.4	707.5	677.3	626.4	596.2	588.6	584.9	588.6	600.0	645.2
45°	673.5	688.6	673.5	637.7	590.5	575.4	577.3	575.4	579.2	590.5	633.9
47.5°	662.2	667.9	649.0	613.2	564.1	560.3	567.9	573.5	577.3	586.8	632.0
50°	645.2	645.2	628.3	590.5	541.5	543.4	552.8	566.0	567.9	579.2	615.1
52.5°	624.5	622.6	611.3	575.4	522.6	528.3	528.3	543.4	547.1	560.3	598.1
55°	607.5	603.7	598.1	564.1	505.6	515.1	509.4	515.1	524.5	537.7	579.2
57.5°	592.4	584.9	584.9	554.7	492.4	496.2	483.0	490.5	501.9	513.2	556.6
60°	577.3	569.8	573.5	541.5	471.7	467.9	462.2	477.3	481.1	494.3	537.7
62.5°	560.3	554.7	556.6	526.4	456.6	447.1	447.1	460.3	462.2	481.1	522.6
65°	547.1	539.6	537.7	511.3	439.6	428.3	433.9	439.6	443.4	462.2	501.9
67.5°	533.9	518.8	518.8	498.1	420.7	409.4	420.7	418.8	424.5	441.5	473.6
70°	516.9	496.2	498.1	488.6	401.9	388.7	398.1	396.2	400.0	411.3	443.4
72.5°	490.5	473.6	477.3	473.6	383.0	364.1	367.9	367.9	367.9	377.3	411.3
75°	456.6	443.4	454.7	464.1	360.4	333.9	337.7	337.7	332.1	337.7	379.2
77.5°	415.1	407.5	445.3	432.0	333.9	301.9	301.9	298.1	286.8	294.3	339.6
80°	369.8	364.1	411.3	362.2	303.8	262.2	258.5	249.0	237.7	243.4	288.7
82.5°	322.6	317.0	345.3	277.3	262.2	217.0	207.5	190.6	179.2	184.9	226.4
85°	264.1	264.1	266.0	209.4	200.0	166.0	154.7	132.1	118.9	122.6	162.3
87.5°	188.7	194.3	179.2	143.4	118.9	92.4	84.9	71.7	60.4	69.8	84.9
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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CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7050-1200

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°	9967.3	10174.8	10410.7	10712.5	10971.0	11395.5	11803.0	12048.3
5°	7452.4	7797.6	8227.8	8780.6	9295.6	10069.2	10837.0	11329.5
7.5°	5333.6	5703.4	6167.5	6858.1	7586.3	8573.0	9588.1	10176.7
10°	4412.9	4792.1	5182.7	5648.7	6244.9	7318.4	8518.3	9182.4
12.5°	3650.7	4056.3	4477.1	4967.6	5520.4	6478.8	7861.8	8625.9
15°	2794.2	3247.0	3743.2	4363.9	5056.3	6163.8	7699.5	8529.6
17.5°	1915.0	2420.6	3030.0	3796.0	4643.1	6061.9	7990.1	8946.6
20°	1318.8	1686.7	2337.6	3235.6	4254.4	6048.7	8548.5	9746.5
22.5°	1103.7	1267.8	1743.3	2720.6	3962.0	6210.9	9414.5	10869.1
25°	1020.7	1118.8	1392.4	2273.4	3748.8	6584.5	10606.9	12321.9
27.5°	971.6	1060.3	1264.1	1981.0	3580.9	7018.4	11767.2	13729.3
30°	990.5	1081.1	1228.2	1832.0	3352.6	7380.7	12797.3	14827.4
32.5°	892.4	932.0	1052.8	1699.9	3188.5	7684.4	13699.1	15736.7
35°	760.3	830.1	939.6	1637.6	3192.2	7888.2	14682.1	16898.9
37.5°	724.5	794.3	873.5	1615.0	3235.6	8105.1	15810.3	18261.1
40°	701.8	766.0	833.9	1601.8	3277.1	8303.2	16915.9	19608.2
42.5°	686.7	745.2	830.1	1556.5	3297.9	8480.6	17825.3	20753.4
45°	684.9	745.2	845.2	1511.2	3330.0	8671.1	18587.5	21600.5
47.5°	686.7	769.8	816.9	1456.5	3330.0	8990.0	19481.8	22357.1
50°	679.2	811.3	786.7	1379.2	3252.6	9593.7	20708.1	23370.2
52.5°	675.4	805.6	728.3	1260.3	3118.7	10552.2	22279.7	24766.3
55°	666.0	777.3	686.7	1082.9	2962.1	11597.4	23962.6	26417.2
57.5°	656.6	688.6	664.1	928.2	2720.6	12333.2	25121.0	27705.8
60°	735.8	601.8	645.2	852.8	2398.0	12535.0	25075.7	28218.9
62.5°	681.1	564.1	620.7	835.8	2171.6	11969.0	23917.3	27941.6
65°	533.9	539.6	596.2	884.8	2111.2	10469.1	21864.6	26660.6
67.5°	488.6	515.1	571.7	947.1	2116.8	8382.5	18796.9	23870.2
70°	460.3	488.6	543.4	979.2	2131.9	6248.7	14861.3	19442.1
72.5°	428.3	452.8	511.3	984.8	2033.8	4539.3	11454.0	14295.3
75°	390.5	413.2	466.0	858.4	1684.8	3148.9	8761.7	9780.5
77.5°	347.1	364.1	409.4	662.2	1250.9	2015.0	6576.9	7144.8
80°	296.2	305.6	343.4	484.9	856.5	1260.3	5203.4	5733.6
82.5°	237.7	241.5	266.0	364.1	556.6	809.4	3484.7	3977.1
85°	167.9	167.9	183.0	264.1	379.2	513.2	1892.3	2098.0
87.5°	79.2	81.1	81.1	145.3	198.1	260.4	435.8	267.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)