

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: P193836

Luminaire Tested: **GLEON-AF-08-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193836
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-08-LED-E1-SLL-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 34210 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

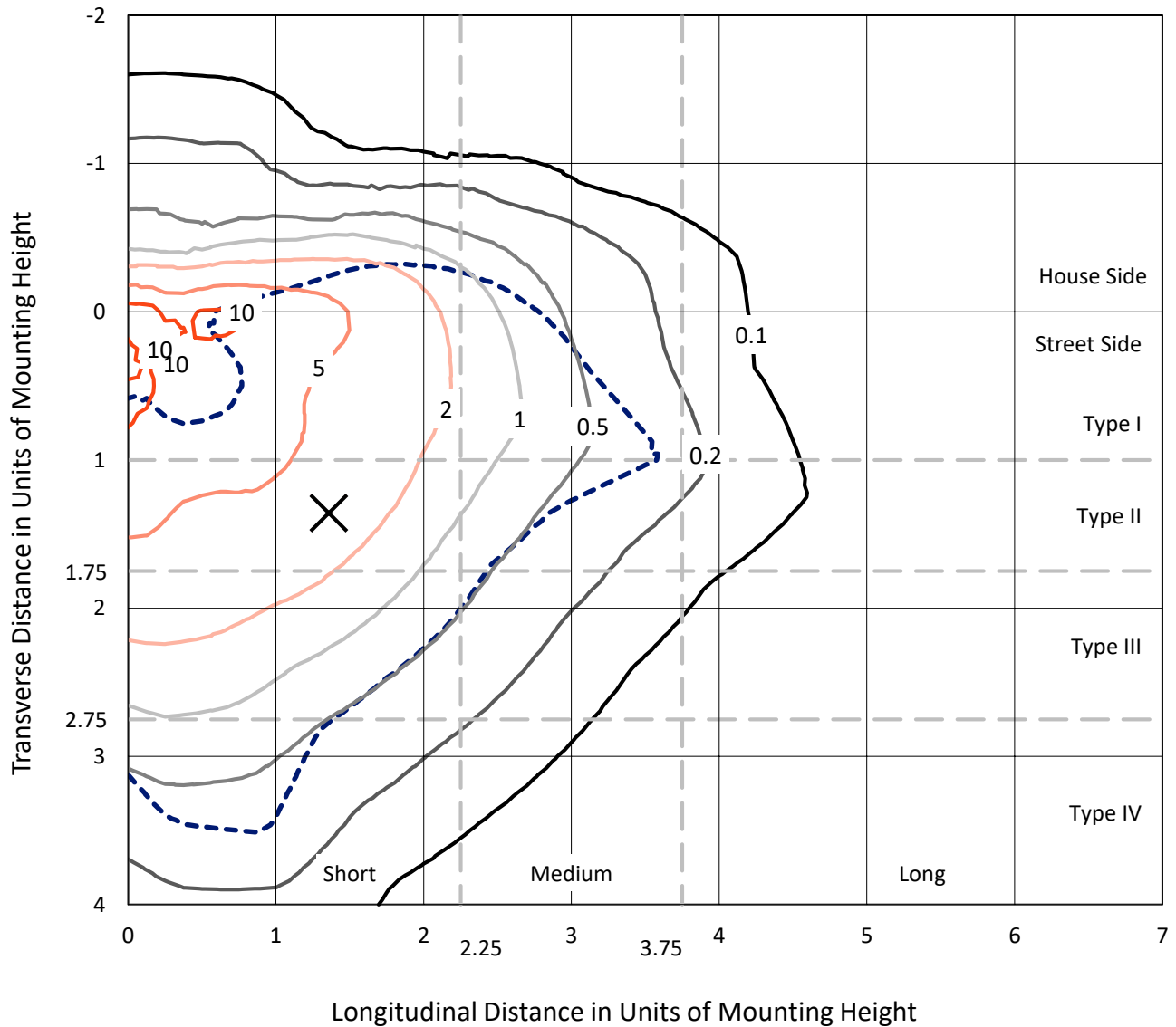
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

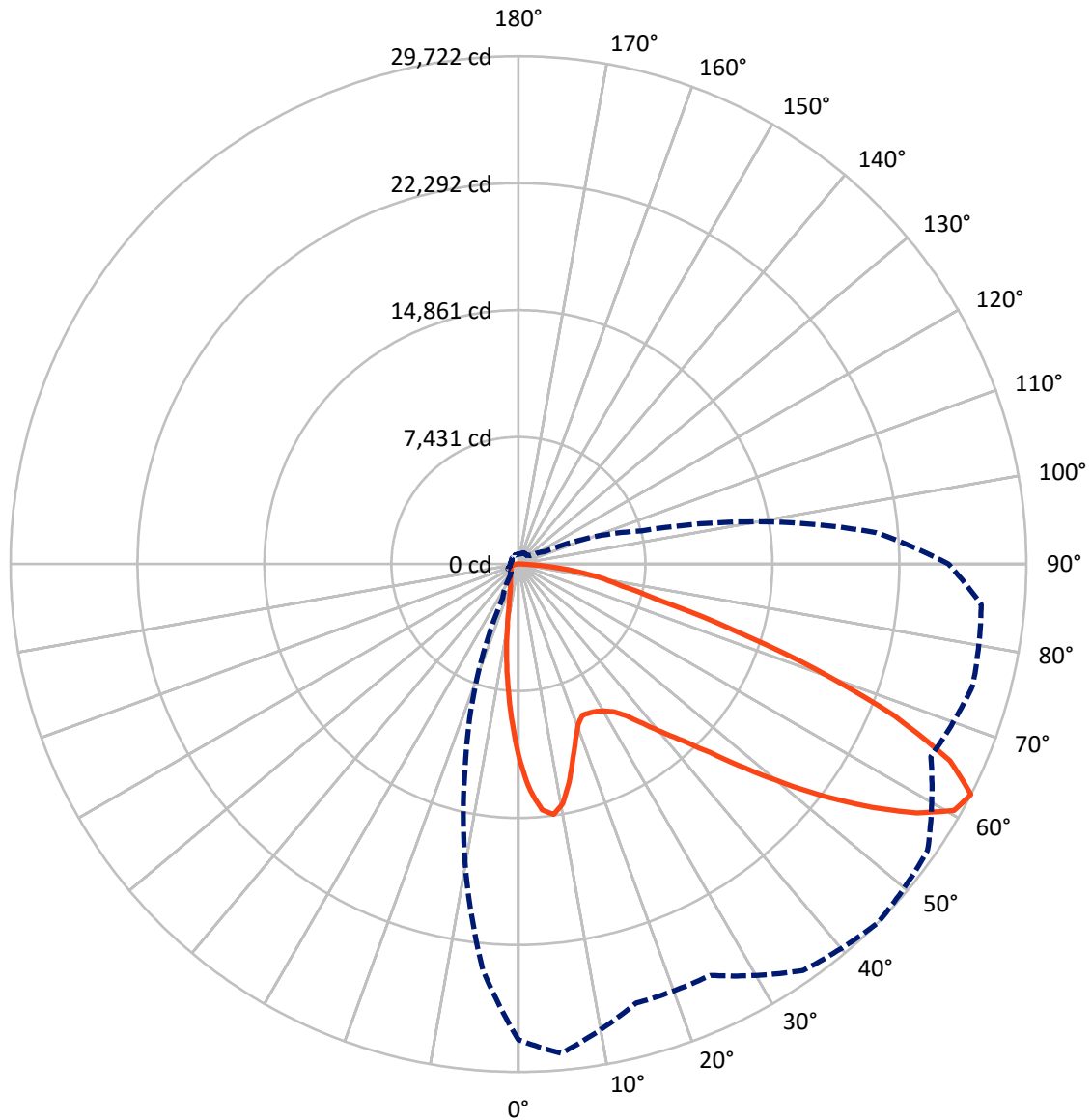
✕ Max cd
 - - - 1/2 Max cd



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	5661.3	0.0	5661.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	28548.7	0.0	28548.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	34210.0	0.0	34210.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.4	2.5
10°-20°	1542.8	4.5
20°-30°	2249.5	6.6
30°-40°	3464.5	10.1
40°-50°	5098.8	14.9
50°-60°	7478.9	21.9
60°-70°	8360.3	24.4
70°-80°	4093.1	12.0
80°-90°	1080.7	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°	34210.0	100.0
0°-180°	34210.0	100.0



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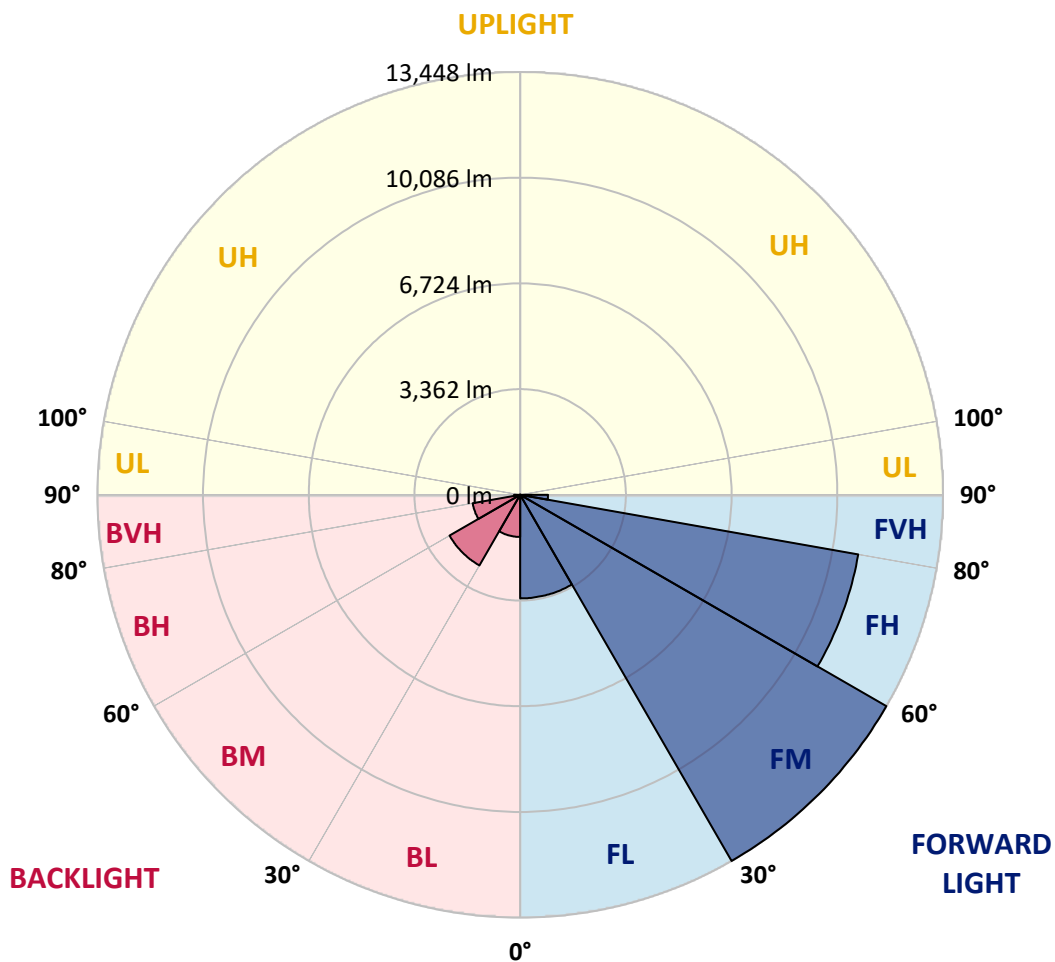
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3294.3	9.6			
FM	(30°-60°)	13448.3	39.3			
FH	(60°-80°)	10918.7	31.9			G4/12000
FVH	(80°-90°)	887.5	2.6			G5
BL	(0°-30°)	1339.4	3.9	B3/2500		
BM	(30°-60°)	2594.0	7.6	B3/5000		
BH	(60°-80°)	1534.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	193.2	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°	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0
2.5°	12009.3	12201.1	12575.4	12855.6	13196.0	13274.9	13384.0	13276.8	13086.9	12834.9	12752.1
5°	11292.8	11702.8	12611.1	13410.3	14121.2	14452.2	14544.3	14271.6	13720.6	12996.6	12554.7
7.5°	10143.8	10726.8	11956.7	13133.9	14181.4	14800.1	14785.0	14151.3	13137.7	11958.5	11249.6
10°	9152.7	9818.5	11228.9	12545.3	13656.7	14256.6	14025.3	13214.8	12005.6	10647.8	9878.6
12.5°	8598.0	9250.5	10681.6	12003.7	12932.7	13139.5	12962.8	12169.2	11029.5	9656.7	8983.5
15°	8502.1	9218.6	10463.5	11539.2	12060.1	11879.6	11668.9	11313.5	10508.6	9337.0	8635.6
17.5°	8917.7	9707.5	10713.6	11215.7	11127.3	10813.3	10753.1	10792.6	10598.9	9692.5	8883.8
20°	9715.0	10662.8	11309.7	11063.4	10418.4	9985.8	10000.9	10604.5	11178.1	10593.2	9669.9
22.5°	10834.0	11915.3	12169.2	11144.3	10119.3	9605.9	9730.1	10708.0	12101.5	11909.6	10730.5
25°	12282.0	13267.4	13085.0	11437.6	10149.4	9653.0	9752.6	11065.3	13192.2	13226.0	12043.2
27.5°	13684.9	14598.9	13854.2	11826.9	10273.6	9763.9	9895.6	11627.6	14234.0	14655.3	13543.9
30°	14779.4	15415.0	14158.8	12182.3	10518.0	9980.2	10143.8	12161.6	14707.9	15620.0	14698.5
32.5°	15685.8	16142.8	14644.0	12622.4	10967.5	10320.6	10608.3	12810.4	15390.6	16537.7	15828.8
35°	16844.3	16974.0	15247.7	13113.2	11661.4	10912.9	11270.3	13446.1	16041.3	17464.8	16942.1
37.5°	18202.0	18034.7	15817.5	13784.6	12558.4	11840.1	12135.3	14143.8	16577.2	18516.1	18079.8
40°	19544.8	19142.3	16532.1	14826.4	13867.3	12932.7	13282.5	14888.5	17077.5	19569.2	19191.2
42.5°	20686.3	20090.1	17237.3	15971.7	15085.9	14138.1	14555.6	15638.8	17555.1	20468.1	20155.9
45°	21530.6	20789.7	17908.7	17071.8	16765.3	15740.4	15937.8	16498.2	18072.3	21218.5	20949.5
47.5°	22284.7	21493.0	18668.4	18181.3	18234.0	17824.0	17506.2	17498.7	18681.6	21831.5	21699.9
50°	23294.6	22469.0	19484.6	19324.7	20438.0	20165.3	19463.9	18666.5	19452.6	22527.3	22512.3
52.5°	24686.2	24014.9	20481.3	20556.5	22495.4	22674.0	21805.2	20069.4	20659.9	23804.3	23714.0
55°	26331.7	25940.6	21839.1	21972.6	25019.1	25147.0	24283.8	21824.0	22435.2	25652.8	25402.7
57.5°	27616.2	27533.4	23328.5	23672.6	26903.4	27478.9	26685.3	23855.0	24436.1	27210.0	26581.9
60°	28127.7	28528.2	24913.8	25387.7	28646.7	29284.2	28588.4	25639.7	26209.5	27855.0	26501.0
62.5°	27851.2	28746.4	26602.5	26563.0	29036.0	29722.4	29233.5	26632.6	27524.0	27189.3	25160.1
65°	26574.3	27962.2	27582.3	26260.3	27704.6	27761.0	27603.0	26188.8	27834.3	25084.9	22568.7
67.5°	23793.0	25790.1	26292.2	23665.1	24112.7	23746.0	23480.8	23759.1	26217.0	21931.2	18967.4
70°	19379.3	22384.4	22625.1	18927.9	18724.8	18478.5	17950.0	19478.9	23025.7	17974.5	15050.2
72.5°	14249.1	17408.4	18147.5	13882.4	12942.1	12992.9	12575.4	14679.7	18721.1	13352.0	11236.4
75°	9748.9	12605.5	14198.3	9686.8	8558.5	8579.2	8526.5	10401.4	14911.0	9288.1	8408.0
77.5°	7121.7	9006.0	10708.0	6512.4	6322.5	6205.9	6177.7	7277.8	11432.0	6743.7	6529.3
80°	5715.1	6653.5	7193.2	4513.4	4853.8	4844.3	4688.3	5004.2	7465.9	4932.7	4883.8
82.5°	3964.2	5113.3	5827.9	3537.4	3276.0	3221.4	3259.0	3727.3	5276.9	3371.9	3206.4
85°	2091.2	3396.3	5771.5	3134.9	1944.5	1551.5	1929.5	3052.2	4571.7	1786.5	1564.6
87.5°	267.0	981.7	3821.3	1250.6	767.3	413.7	915.8	1718.8	2935.6	364.8	317.8
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°	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0
2.5°	12539.6	12289.5	11962.3	11659.5	11345.5	11033.3	10625.2	10369.5	10192.7	10158.8	10083.6
5°	12235.0	11403.8	10775.7	10232.2	9739.5	9043.7	8658.1	8338.4	8167.3	8150.4	8109.0
7.5°	10830.2	9683.1	8834.9	8065.8	7368.1	6805.8	6185.2	5895.6	5777.1	5805.3	5833.5
10°	9369.0	8086.4	7112.3	6326.2	5711.3	5237.4	4739.0	4402.4	4169.2	4122.2	4112.8
12.5°	8300.8	6894.2	5948.2	5393.5	4917.7	4472.0	3943.6	3546.8	3244.0	3140.6	3071.0
15°	7849.5	6311.2	5320.1	4722.1	4197.4	3631.4	3140.6	2724.9	2446.6	2356.4	2305.6
17.5°	7945.4	6149.5	4887.6	4122.2	3450.8	2860.3	2241.6	1886.2	1718.8	1675.6	1675.6
20°	8449.4	6119.4	4530.3	3569.3	2732.5	2047.9	1540.2	1337.1	1282.5	1276.9	1292.0
22.5°	9156.5	6224.7	4263.3	3089.8	2123.2	1495.1	1199.8	1124.6	1100.1	1105.8	1122.7
25°	10209.6	6580.1	4069.6	2662.9	1666.2	1224.3	1070.0	1024.9	1013.6	1028.7	1049.4
27.5°	11458.3	6935.5	3949.2	2341.3	1406.7	1118.9	1017.4	970.4	977.9	996.7	1015.5
30°	12554.7	7227.0	3759.3	2111.9	1325.8	1124.6	1017.4	953.4	945.9	949.7	955.3
32.5°	13538.2	7424.5	3537.4	1893.7	1143.4	998.6	949.7	940.3	898.9	883.9	885.7
35°	14386.4	7424.5	3403.8	1765.9	1024.9	885.7	806.8	759.8	739.1	740.9	761.6
37.5°	15204.4	7275.9	3338.0	1694.4	961.0	842.5	772.9	731.5	703.3	697.7	701.5
40°	15926.5	7059.7	3262.8	1664.3	912.1	816.2	750.3	716.5	686.4	677.0	678.9
42.5°	16505.8	6884.8	3180.0	1624.8	882.0	797.4	735.3	705.2	671.4	662.0	660.1
45°	17132.0	6826.5	3071.0	1545.8	897.0	799.2	731.5	699.6	665.7	654.4	650.7
47.5°	17957.6	7008.9	2958.1	1451.8	929.0	808.6	737.2	699.6	663.8	654.4	650.7
50°	18997.5	7437.7	2815.2	1314.5	897.0	835.0	735.3	693.9	663.8	654.4	646.9
52.5°	20332.7	8016.9	2627.2	1156.6	878.2	898.9	731.5	682.6	654.4	641.3	628.1
55°	21955.7	8490.8	2403.4	1026.8	835.0	882.0	725.9	669.5	639.4	620.6	609.3
57.5°	23144.2	8661.9	2115.6	942.2	774.8	853.8	718.4	652.6	620.6	605.5	590.5
60°	22909.1	8330.9	1873.0	889.5	739.1	771.0	712.7	637.5	603.7	592.4	579.2
62.5°	21026.6	7465.9	1717.0	865.1	716.5	703.3	718.4	622.5	588.6	577.3	573.6
65°	18203.9	6189.0	1654.9	859.4	697.7	663.8	667.6	605.5	571.7	562.3	558.5
67.5°	15016.3	4994.8	1600.4	878.2	673.2	635.6	616.8	583.0	554.8	545.4	537.8
70°	11841.9	4154.2	1575.9	866.9	643.2	607.4	586.7	558.5	534.1	524.7	519.0
72.5°	9536.4	3509.1	1562.8	855.7	603.7	569.8	551.0	526.6	500.2	496.5	490.8
75°	8069.5	2758.8	1431.1	819.9	558.5	524.7	511.5	488.9	462.6	462.6	458.9
77.5°	6224.7	1995.3	1190.4	725.9	511.5	473.9	462.6	445.7	415.6	421.2	419.4
80°	4598.0	1301.4	930.9	601.8	453.2	417.5	411.8	394.9	362.9	370.5	370.5
82.5°	3150.0	853.8	669.5	492.7	387.4	353.5	353.5	336.6	300.9	304.7	315.9
85°	1581.6	586.7	500.2	381.8	300.9	284.0	284.0	270.8	235.1	237.0	252.0
87.5°	481.4	353.5	331.0	272.7	216.3	212.5	203.1	193.7	171.1	169.3	178.7
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°	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0
2.5°	9968.9	9861.7	9731.9	9446.1	9350.2	9344.6	9431.1	9340.8	9513.8	9440.5	9521.3
5°	8039.4	7934.1	7789.3	7424.5	7202.6	7052.1	6980.7	6770.1	6922.4	6811.4	6903.6
7.5°	5912.5	5937.0	5841.0	5626.7	5143.4	4900.8	4757.8	4630.0	4740.9	4729.6	4906.4
10°	4156.1	4221.9	4154.2	3937.9	3546.8	3413.2	3439.6	3490.3	3635.1	3710.4	3983.0
12.5°	2992.0	2988.2	2945.0	2751.3	2493.6	2508.7	2615.9	2704.3	2837.8	2916.8	3195.1
15°	2234.1	2200.3	2181.5	2023.5	1876.8	1908.8	1961.4	1970.8	2055.5	2102.5	2328.1
17.5°	1688.8	1705.7	1726.4	1613.5	1502.6	1481.9	1440.5	1389.7	1414.2	1423.6	1536.4
20°	1340.8	1408.5	1459.3	1380.3	1267.5	1207.3	1154.7	1120.8	1120.8	1118.9	1150.9
22.5°	1171.6	1220.5	1275.0	1220.5	1118.9	1066.3	1036.2	1009.9	1006.1	1006.1	1036.2
25°	1079.4	1115.2	1167.8	1130.2	1055.0	1015.5	987.3	953.4	940.3	936.5	957.2
27.5°	1034.3	1049.4	1075.7	1041.8	977.9	959.1	951.6	921.5	904.6	895.2	915.8
30°	957.2	953.4	955.3	921.5	870.7	868.8	882.0	887.6	882.0	880.1	912.1
32.5°	885.7	878.2	876.3	846.3	799.2	788.0	799.2	810.5	823.7	842.5	880.1
35°	795.5	814.3	825.6	799.2	742.8	709.0	695.8	675.1	663.8	663.8	707.1
37.5°	724.0	767.3	784.2	759.8	697.7	650.7	628.1	624.3	626.2	633.8	675.1
40°	699.6	731.5	746.6	722.1	660.1	616.8	603.7	599.9	603.7	614.9	656.3
42.5°	684.5	707.1	705.2	675.1	624.3	594.3	586.7	583.0	586.7	598.0	643.2
45°	671.4	686.4	671.4	635.6	588.6	573.6	575.5	573.6	577.3	588.6	631.9
47.5°	660.1	665.7	646.9	611.2	562.3	558.5	566.1	571.7	575.5	584.9	630.0
50°	643.2	643.2	626.2	588.6	539.7	541.6	551.0	564.2	566.1	577.3	613.1
52.5°	622.5	620.6	609.3	573.6	520.9	526.6	526.6	541.6	545.4	558.5	596.1
55°	605.5	601.8	596.1	562.3	504.0	513.4	507.8	513.4	522.8	536.0	577.3
57.5°	590.5	583.0	583.0	552.9	490.8	494.6	481.4	488.9	500.2	511.5	554.8
60°	575.5	567.9	571.7	539.7	470.1	466.4	460.7	475.8	479.5	492.7	536.0
62.5°	558.5	552.9	554.8	524.7	455.1	445.7	445.7	458.9	460.7	479.5	520.9
65°	545.4	537.8	536.0	509.6	438.2	426.9	432.5	438.2	441.9	460.7	500.2
67.5°	532.2	517.2	517.2	496.5	419.4	408.1	419.4	417.5	423.1	440.1	472.0
70°	515.3	494.6	496.5	487.1	400.6	387.4	396.8	394.9	398.7	410.0	441.9
72.5°	488.9	472.0	475.8	472.0	381.8	362.9	366.7	366.7	366.7	376.1	410.0
75°	455.1	441.9	453.2	462.6	359.2	332.9	336.6	336.6	331.0	336.6	378.0
77.5°	413.7	406.2	443.8	430.7	332.9	300.9	300.9	297.1	285.8	293.4	338.5
80°	368.6	362.9	410.0	361.1	302.8	261.4	257.6	248.2	237.0	242.6	287.7
82.5°	321.6	315.9	344.1	276.4	261.4	216.3	206.9	189.9	178.7	184.3	225.7
85°	263.3	263.3	265.2	208.7	199.3	165.5	154.2	131.6	118.5	122.2	161.7
87.5°	188.1	193.7	178.7	142.9	118.5	92.1	84.6	71.5	60.2	69.6	84.6
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-08-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0	11558.0
2.5°	9935.0	10141.9	10377.0	10677.9	10935.5	11358.6	11764.8	12009.3
5°	7428.2	7772.4	8201.2	8752.2	9265.6	10036.6	10802.0	11292.8
7.5°	5316.4	5685.0	6147.6	6835.9	7561.8	8545.3	9557.1	10143.8
10°	4398.7	4776.6	5165.9	5630.4	6224.7	7294.7	8490.8	9152.7
12.5°	3638.9	4043.2	4462.6	4951.5	5502.5	6457.9	7836.3	8598.0
15°	2785.1	3236.5	3731.1	4349.8	5039.9	6143.8	7674.6	8502.1
17.5°	1908.8	2412.8	3020.2	3783.7	4628.1	6042.3	7964.2	8917.7
20°	1314.5	1681.2	2330.0	3225.2	4240.7	6029.1	8520.9	9715.0
22.5°	1100.1	1263.7	1737.6	2711.8	3949.2	6190.8	9384.0	10834.0
25°	1017.4	1115.2	1387.9	2266.1	3736.7	6563.2	10572.6	12282.0
27.5°	968.5	1056.9	1260.0	1974.6	3569.3	6995.7	11729.1	13684.9
30°	987.3	1077.6	1224.3	1826.0	3341.8	7356.8	12755.9	14779.4
32.5°	889.5	929.0	1049.4	1694.4	3178.2	7659.6	13654.8	15685.8
35°	757.9	827.5	936.5	1632.3	3181.9	7862.7	14634.6	16844.3
37.5°	722.1	791.7	870.7	1609.8	3225.2	8078.9	15759.2	18202.0
40°	699.6	763.5	831.2	1596.6	3266.5	8276.4	16861.2	19544.8
42.5°	684.5	742.8	827.5	1551.5	3287.2	8453.2	17767.6	20686.3
45°	682.6	742.8	842.5	1506.3	3319.2	8643.1	18527.4	21530.6
47.5°	684.5	767.3	814.3	1451.8	3319.2	8960.9	19418.8	22284.7
50°	677.0	808.6	784.2	1374.7	3242.1	9562.7	20641.1	23294.6
52.5°	673.2	803.0	725.9	1256.2	3108.6	10518.0	22207.6	24686.2
55°	663.8	774.8	684.5	1079.4	2952.5	11559.9	23885.1	26331.7
57.5°	654.4	686.4	662.0	925.2	2711.8	12293.3	25039.8	27616.2
60°	733.4	599.9	643.2	850.0	2390.2	12494.5	24994.7	28127.7
62.5°	678.9	562.3	618.7	833.1	2164.5	11930.3	23840.0	27851.2
65°	532.2	537.8	594.3	882.0	2104.4	10435.3	21793.9	26574.3
67.5°	487.1	513.4	569.8	944.0	2110.0	8355.4	18736.1	23793.0
70°	458.9	487.1	541.6	976.0	2125.0	6228.4	14813.2	19379.3
72.5°	426.9	451.3	509.6	981.7	2027.3	4524.7	11416.9	14249.1
75°	389.3	411.8	464.5	855.7	1679.3	3138.7	8733.4	9748.9
77.5°	346.0	362.9	408.1	660.1	1246.8	2008.4	6555.7	7121.7
80°	295.2	304.7	342.3	483.3	853.8	1256.2	5186.6	5715.1
82.5°	237.0	240.7	265.2	362.9	554.8	806.8	3473.4	3964.2
85°	167.4	167.4	182.4	263.3	378.0	511.5	1886.2	2091.2
87.5°	79.0	80.9	80.9	144.8	197.5	259.5	434.4	267.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)