

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: P193876

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193876
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-SLR-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 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

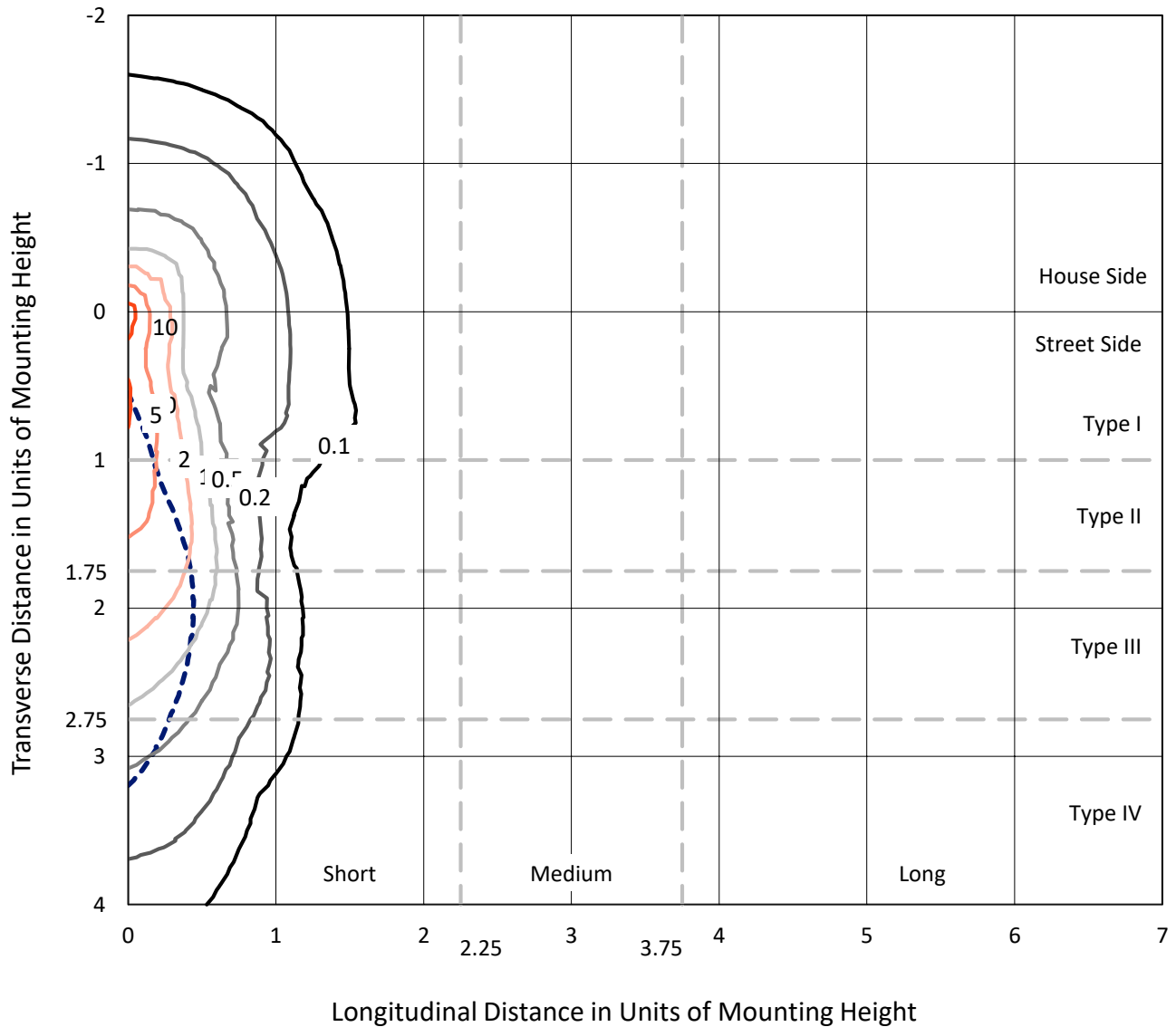
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

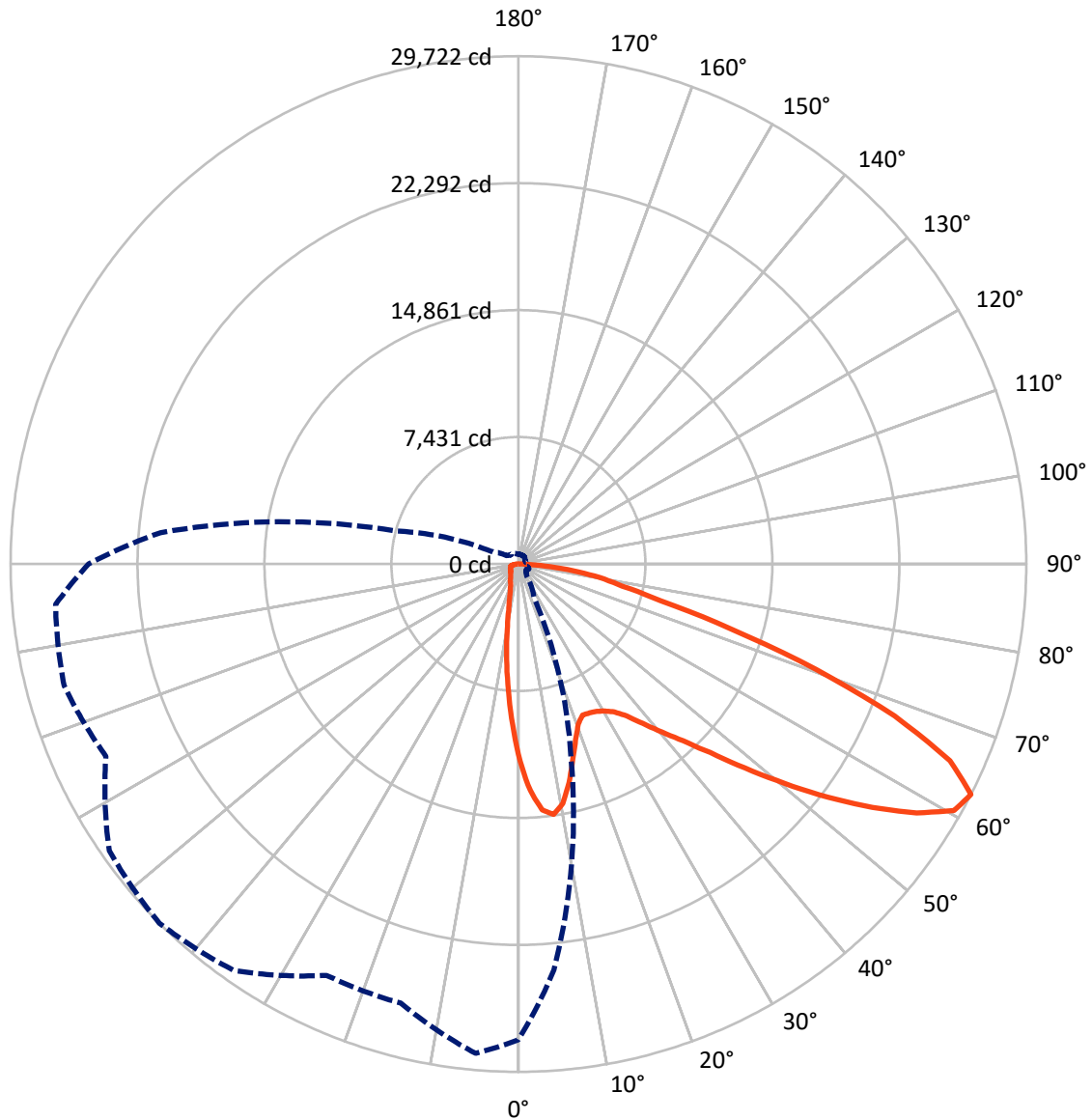
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-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

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

Coefficient of Utilization



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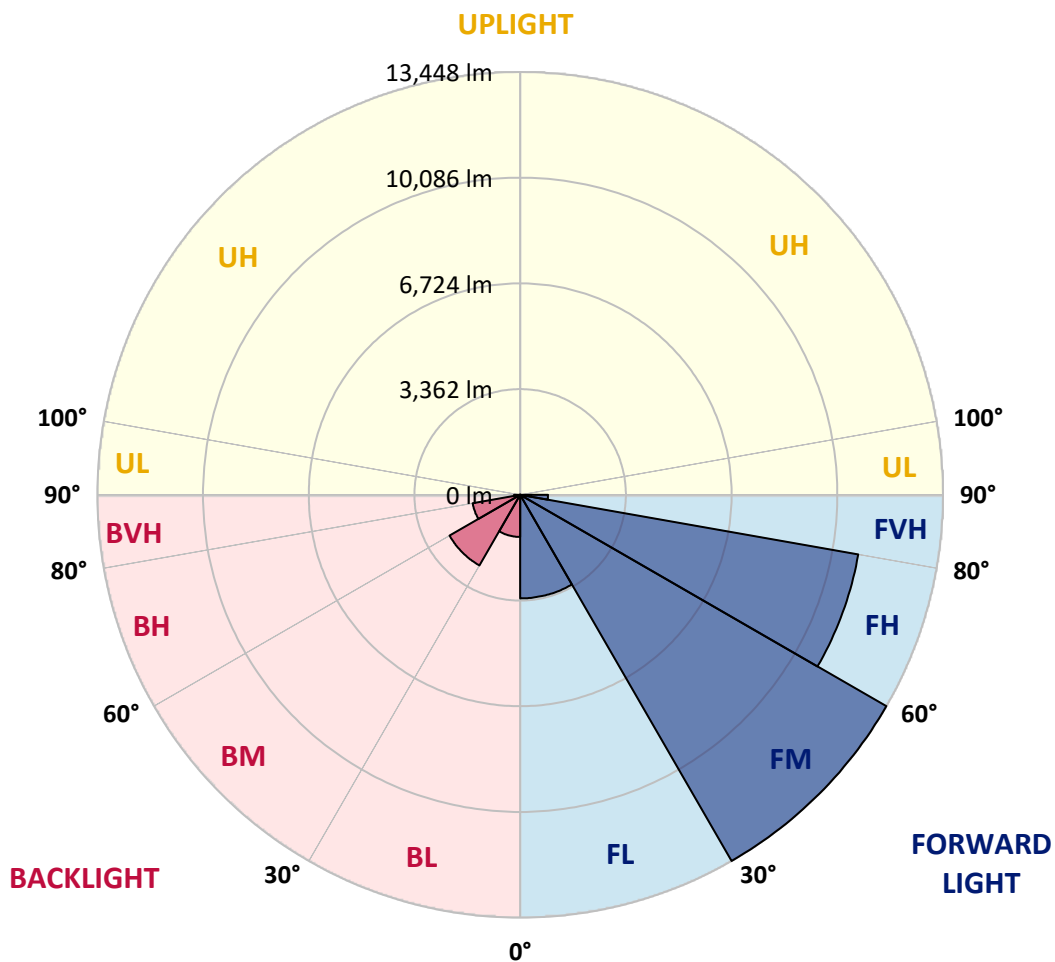
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	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	11764.8	11358.6	10935.5	10677.9	10377.0	10141.9	9935.0	9521.3	9440.5	9513.8
5°	11292.8	10802.0	10036.6	9265.6	8752.2	8201.2	7772.4	7428.2	6903.6	6811.4	6922.4
7.5°	10143.8	9557.1	8545.3	7561.8	6835.9	6147.6	5685.0	5316.4	4906.4	4729.6	4740.9
10°	9152.7	8490.8	7294.7	6224.7	5630.4	5165.9	4776.6	4398.7	3983.0	3710.4	3635.1
12.5°	8598.0	7836.3	6457.9	5502.5	4951.5	4462.6	4043.2	3638.9	3195.1	2916.8	2837.8
15°	8502.1	7674.6	6143.8	5039.9	4349.8	3731.1	3236.5	2785.1	2328.1	2102.5	2055.5
17.5°	8917.7	7964.2	6042.3	4628.1	3783.7	3020.2	2412.8	1908.8	1536.4	1423.6	1414.2
20°	9715.0	8520.9	6029.1	4240.7	3225.2	2330.0	1681.2	1314.5	1150.9	1118.9	1120.8
22.5°	10834.0	9384.0	6190.8	3949.2	2711.8	1737.6	1263.7	1100.1	1036.2	1006.1	1006.1
25°	12282.0	10572.6	6563.2	3736.7	2266.1	1387.9	1115.2	1017.4	957.2	936.5	940.3
27.5°	13684.9	11729.1	6995.7	3569.3	1974.6	1260.0	1056.9	968.5	915.8	895.2	904.6
30°	14779.4	12755.9	7356.8	3341.8	1826.0	1224.3	1077.6	987.3	912.1	880.1	882.0
32.5°	15685.8	13654.8	7659.6	3178.2	1694.4	1049.4	929.0	889.5	880.1	842.5	823.7
35°	16844.3	14634.6	7862.7	3181.9	1632.3	936.5	827.5	757.9	707.1	663.8	663.8
37.5°	18202.0	15759.2	8078.9	3225.2	1609.8	870.7	791.7	722.1	675.1	633.8	626.2
40°	19544.8	16861.2	8276.4	3266.5	1596.6	831.2	763.5	699.6	656.3	614.9	603.7
42.5°	20686.3	17767.6	8453.2	3287.2	1551.5	827.5	742.8	684.5	643.2	598.0	586.7
45°	21530.6	18527.4	8643.1	3319.2	1506.3	842.5	742.8	682.6	631.9	588.6	577.3
47.5°	22284.7	19418.8	8960.9	3319.2	1451.8	814.3	767.3	684.5	630.0	584.9	575.5
50°	23294.6	20641.1	9562.7	3242.1	1374.7	784.2	808.6	677.0	613.1	577.3	566.1
52.5°	24686.2	22207.6	10518.0	3108.6	1256.2	725.9	803.0	673.2	596.1	558.5	545.4
55°	26331.7	23885.1	11559.9	2952.5	1079.4	684.5	774.8	663.8	577.3	536.0	522.8
57.5°	27616.2	25039.8	12293.3	2711.8	925.2	662.0	686.4	654.4	554.8	511.5	500.2
60°	28127.7	24994.7	12494.5	2390.2	850.0	643.2	599.9	733.4	536.0	492.7	479.5
62.5°	27851.2	23840.0	11930.3	2164.5	833.1	618.7	562.3	678.9	520.9	479.5	460.7
65°	26574.3	21793.9	10435.3	2104.4	882.0	594.3	537.8	532.2	500.2	460.7	441.9
67.5°	23793.0	18736.1	8355.4	2110.0	944.0	569.8	513.4	487.1	472.0	440.1	423.1
70°	19379.3	14813.2	6228.4	2125.0	976.0	541.6	487.1	458.9	441.9	410.0	398.7
72.5°	14249.1	11416.9	4524.7	2027.3	981.7	509.6	451.3	426.9	410.0	376.1	366.7
75°	9748.9	8733.4	3138.7	1679.3	855.7	464.5	411.8	389.3	378.0	336.6	331.0
77.5°	7121.7	6555.7	2008.4	1246.8	660.1	408.1	362.9	346.0	338.5	293.4	285.8
80°	5715.1	5186.6	1256.2	853.8	483.3	342.3	304.7	295.2	287.7	242.6	237.0
82.5°	3964.2	3473.4	806.8	554.8	362.9	265.2	240.7	237.0	225.7	184.3	178.7
85°	2091.2	1886.2	511.5	378.0	263.3	182.4	167.4	167.4	161.7	122.2	118.5
87.5°	267.0	434.4	259.5	197.5	144.8	80.9	80.9	79.0	84.6	69.6	60.2
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):

	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°	9340.8	9431.1	9344.6	9350.2	9446.1	9731.9	9861.7	9968.9	10083.6	10158.8	10192.7
5°	6770.1	6980.7	7052.1	7202.6	7424.5	7789.3	7934.1	8039.4	8109.0	8150.4	8167.3
7.5°	4630.0	4757.8	4900.8	5143.4	5626.7	5841.0	5937.0	5912.5	5833.5	5805.3	5777.1
10°	3490.3	3439.6	3413.2	3546.8	3937.9	4154.2	4221.9	4156.1	4112.8	4122.2	4169.2
12.5°	2704.3	2615.9	2508.7	2493.6	2751.3	2945.0	2988.2	2992.0	3071.0	3140.6	3244.0
15°	1970.8	1961.4	1908.8	1876.8	2023.5	2181.5	2200.3	2234.1	2305.6	2356.4	2446.6
17.5°	1389.7	1440.5	1481.9	1502.6	1613.5	1726.4	1705.7	1688.8	1675.6	1675.6	1718.8
20°	1120.8	1154.7	1207.3	1267.5	1380.3	1459.3	1408.5	1340.8	1292.0	1276.9	1282.5
22.5°	1009.9	1036.2	1066.3	1118.9	1220.5	1275.0	1220.5	1171.6	1122.7	1105.8	1100.1
25°	953.4	987.3	1015.5	1055.0	1130.2	1167.8	1115.2	1079.4	1049.4	1028.7	1013.6
27.5°	921.5	951.6	959.1	977.9	1041.8	1075.7	1049.4	1034.3	1015.5	996.7	977.9
30°	887.6	882.0	868.8	870.7	921.5	955.3	953.4	957.2	955.3	949.7	945.9
32.5°	810.5	799.2	788.0	799.2	846.3	876.3	878.2	885.7	885.7	883.9	898.9
35°	675.1	695.8	709.0	742.8	799.2	825.6	814.3	795.5	761.6	740.9	739.1
37.5°	624.3	628.1	650.7	697.7	759.8	784.2	767.3	724.0	701.5	697.7	703.3
40°	599.9	603.7	616.8	660.1	722.1	746.6	731.5	699.6	678.9	677.0	686.4
42.5°	583.0	586.7	594.3	624.3	675.1	705.2	707.1	684.5	660.1	662.0	671.4
45°	573.6	575.5	573.6	588.6	635.6	671.4	686.4	671.4	650.7	654.4	665.7
47.5°	571.7	566.1	558.5	562.3	611.2	646.9	665.7	660.1	650.7	654.4	663.8
50°	564.2	551.0	541.6	539.7	588.6	626.2	643.2	643.2	646.9	654.4	663.8
52.5°	541.6	526.6	526.6	520.9	573.6	609.3	620.6	622.5	628.1	641.3	654.4
55°	513.4	507.8	513.4	504.0	562.3	596.1	601.8	605.5	609.3	620.6	639.4
57.5°	488.9	481.4	494.6	490.8	552.9	583.0	583.0	590.5	590.5	605.5	620.6
60°	475.8	460.7	466.4	470.1	539.7	571.7	567.9	575.5	579.2	592.4	603.7
62.5°	458.9	445.7	445.7	455.1	524.7	554.8	552.9	558.5	573.6	577.3	588.6
65°	438.2	432.5	426.9	438.2	509.6	536.0	537.8	545.4	558.5	562.3	571.7
67.5°	417.5	419.4	408.1	419.4	496.5	517.2	517.2	532.2	537.8	545.4	554.8
70°	394.9	396.8	387.4	400.6	487.1	496.5	494.6	515.3	519.0	524.7	534.1
72.5°	366.7	366.7	362.9	381.8	472.0	475.8	472.0	488.9	490.8	496.5	500.2
75°	336.6	336.6	332.9	359.2	462.6	453.2	441.9	455.1	458.9	462.6	462.6
77.5°	297.1	300.9	300.9	332.9	430.7	443.8	406.2	413.7	419.4	421.2	415.6
80°	248.2	257.6	261.4	302.8	361.1	410.0	362.9	368.6	370.5	370.5	362.9
82.5°	189.9	206.9	216.3	261.4	276.4	344.1	315.9	321.6	315.9	304.7	300.9
85°	131.6	154.2	165.5	199.3	208.7	265.2	263.3	263.3	252.0	237.0	235.1
87.5°	71.5	84.6	92.1	118.5	142.9	178.7	193.7	188.1	178.7	169.3	171.1
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):

	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°	10369.5	10625.2	11033.3	11345.5	11659.5	11962.3	12289.5	12539.6	12752.1	12834.9	13086.9
5°	8338.4	8658.1	9043.7	9739.5	10232.2	10775.7	11403.8	12235.0	12554.7	12996.6	13720.6
7.5°	5895.6	6185.2	6805.8	7368.1	8065.8	8834.9	9683.1	10830.2	11249.6	11958.5	13137.7
10°	4402.4	4739.0	5237.4	5711.3	6326.2	7112.3	8086.4	9369.0	9878.6	10647.8	12005.6
12.5°	3546.8	3943.6	4472.0	4917.7	5393.5	5948.2	6894.2	8300.8	8983.5	9656.7	11029.5
15°	2724.9	3140.6	3631.4	4197.4	4722.1	5320.1	6311.2	7849.5	8635.6	9337.0	10508.6
17.5°	1886.2	2241.6	2860.3	3450.8	4122.2	4887.6	6149.5	7945.4	8883.8	9692.5	10598.9
20°	1337.1	1540.2	2047.9	2732.5	3569.3	4530.3	6119.4	8449.4	9669.9	10593.2	11178.1
22.5°	1124.6	1199.8	1495.1	2123.2	3089.8	4263.3	6224.7	9156.5	10730.5	11909.6	12101.5
25°	1024.9	1070.0	1224.3	1666.2	2662.9	4069.6	6580.1	10209.6	12043.2	13226.0	13192.2
27.5°	970.4	1017.4	1118.9	1406.7	2341.3	3949.2	6935.5	11458.3	13543.9	14655.3	14234.0
30°	953.4	1017.4	1124.6	1325.8	2111.9	3759.3	7227.0	12554.7	14698.5	15620.0	14707.9
32.5°	940.3	949.7	998.6	1143.4	1893.7	3537.4	7424.5	13538.2	15828.8	16537.7	15390.6
35°	759.8	806.8	885.7	1024.9	1765.9	3403.8	7424.5	14386.4	16942.1	17464.8	16041.3
37.5°	731.5	772.9	842.5	961.0	1694.4	3338.0	7275.9	15204.4	18079.8	18516.1	16577.2
40°	716.5	750.3	816.2	912.1	1664.3	3262.8	7059.7	15926.5	19191.2	19569.2	17077.5
42.5°	705.2	735.3	797.4	882.0	1624.8	3180.0	6884.8	16505.8	20155.9	20468.1	17555.1
45°	699.6	731.5	799.2	897.0	1545.8	3071.0	6826.5	17132.0	20949.5	21218.5	18072.3
47.5°	699.6	737.2	808.6	929.0	1451.8	2958.1	7008.9	17957.6	21699.9	21831.5	18681.6
50°	693.9	735.3	835.0	897.0	1314.5	2815.2	7437.7	18997.5	22512.3	22527.3	19452.6
52.5°	682.6	731.5	898.9	878.2	1156.6	2627.2	8016.9	20332.7	23714.0	23804.3	20659.9
55°	669.5	725.9	882.0	835.0	1026.8	2403.4	8490.8	21955.7	25402.7	25652.8	22435.2
57.5°	652.6	718.4	853.8	774.8	942.2	2115.6	8661.9	23144.2	26581.9	27210.0	24436.1
60°	637.5	712.7	771.0	739.1	889.5	1873.0	8330.9	22909.1	26501.0	27855.0	26209.5
62.5°	622.5	718.4	703.3	716.5	865.1	1717.0	7465.9	21026.6	25160.1	27189.3	27524.0
65°	605.5	667.6	663.8	697.7	859.4	1654.9	6189.0	18203.9	22568.7	25084.9	27834.3
67.5°	583.0	616.8	635.6	673.2	878.2	1600.4	4994.8	15016.3	18967.4	21931.2	26217.0
70°	558.5	586.7	607.4	643.2	866.9	1575.9	4154.2	11841.9	15050.2	17974.5	23025.7
72.5°	526.6	551.0	569.8	603.7	855.7	1562.8	3509.1	9536.4	11236.4	13352.0	18721.1
75°	488.9	511.5	524.7	558.5	819.9	1431.1	2758.8	8069.5	8408.0	9288.1	14911.0
77.5°	445.7	462.6	473.9	511.5	725.9	1190.4	1995.3	6224.7	6529.3	6743.7	11432.0
80°	394.9	411.8	417.5	453.2	601.8	930.9	1301.4	4598.0	4883.8	4932.7	7465.9
82.5°	336.6	353.5	353.5	387.4	492.7	669.5	853.8	3150.0	3206.4	3371.9	5276.9
85°	270.8	284.0	284.0	300.9	381.8	500.2	586.7	1581.6	1564.6	1786.5	4571.7
87.5°	193.7	203.1	212.5	216.3	272.7	331.0	353.5	481.4	317.8	364.8	2935.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193876
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SLR-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°	13276.8	13384.0	13274.9	13196.0	12855.6	12575.4	12201.1	12009.3
5°	14271.6	14544.3	14452.2	14121.2	13410.3	12611.1	11702.8	11292.8
7.5°	14151.3	14785.0	14800.1	14181.4	13133.9	11956.7	10726.8	10143.8
10°	13214.8	14025.3	14256.6	13656.7	12545.3	11228.9	9818.5	9152.7
12.5°	12169.2	12962.8	13139.5	12932.7	12003.7	10681.6	9250.5	8598.0
15°	11313.5	11668.9	11879.6	12060.1	11539.2	10463.5	9218.6	8502.1
17.5°	10792.6	10753.1	10813.3	11127.3	11215.7	10713.6	9707.5	8917.7
20°	10604.5	10000.9	9985.8	10418.4	11063.4	11309.7	10662.8	9715.0
22.5°	10708.0	9730.1	9605.9	10119.3	11144.3	12169.2	11915.3	10834.0
25°	11065.3	9752.6	9653.0	10149.4	11437.6	13085.0	13267.4	12282.0
27.5°	11627.6	9895.6	9763.9	10273.6	11826.9	13854.2	14598.9	13684.9
30°	12161.6	10143.8	9980.2	10518.0	12182.3	14158.8	15415.0	14779.4
32.5°	12810.4	10608.3	10320.6	10967.5	12622.4	14644.0	16142.8	15685.8
35°	13446.1	11270.3	10912.9	11661.4	13113.2	15247.7	16974.0	16844.3
37.5°	14143.8	12135.3	11840.1	12558.4	13784.6	15817.5	18034.7	18202.0
40°	14888.5	13282.5	12932.7	13867.3	14826.4	16532.1	19142.3	19544.8
42.5°	15638.8	14555.6	14138.1	15085.9	15971.7	17237.3	20090.1	20686.3
45°	16498.2	15937.8	15740.4	16765.3	17071.8	17908.7	20789.7	21530.6
47.5°	17498.7	17506.2	17824.0	18234.0	18181.3	18668.4	21493.0	22284.7
50°	18666.5	19463.9	20165.3	20438.0	19324.7	19484.6	22469.0	23294.6
52.5°	20069.4	21805.2	22674.0	22495.4	20556.5	20481.3	24014.9	24686.2
55°	21824.0	24283.8	25147.0	25019.1	21972.6	21839.1	25940.6	26331.7
57.5°	23855.0	26685.3	27478.9	26903.4	23672.6	23328.5	27533.4	27616.2
60°	25639.7	28588.4	29284.2	28646.7	25387.7	24913.8	28528.2	28127.7
62.5°	26632.6	29233.5	29722.4	29036.0	26563.0	26602.5	28746.4	27851.2
65°	26188.8	27603.0	27761.0	27704.6	26260.3	27582.3	27962.2	26574.3
67.5°	23759.1	23480.8	23746.0	24112.7	23665.1	26292.2	25790.1	23793.0
70°	19478.9	17950.0	18478.5	18724.8	18927.9	22625.1	22384.4	19379.3
72.5°	14679.7	12575.4	12992.9	12942.1	13882.4	18147.5	17408.4	14249.1
75°	10401.4	8526.5	8579.2	8558.5	9686.8	14198.3	12605.5	9748.9
77.5°	7277.8	6177.7	6205.9	6322.5	6512.4	10708.0	9006.0	7121.7
80°	5004.2	4688.3	4844.3	4853.8	4513.4	7193.2	6653.5	5715.1
82.5°	3727.3	3259.0	3221.4	3276.0	3537.4	5827.9	5113.3	3964.2
85°	3052.2	1929.5	1551.5	1944.5	3134.9	5771.5	3396.3	2091.2
87.5°	1718.8	915.8	413.7	767.3	1250.6	3821.3	981.7	267.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)