

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: P191305

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191305
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-07-LED-E1-SLL-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 41520.5 lumens
Efficiency: N/A
Efficacy: 92.7 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

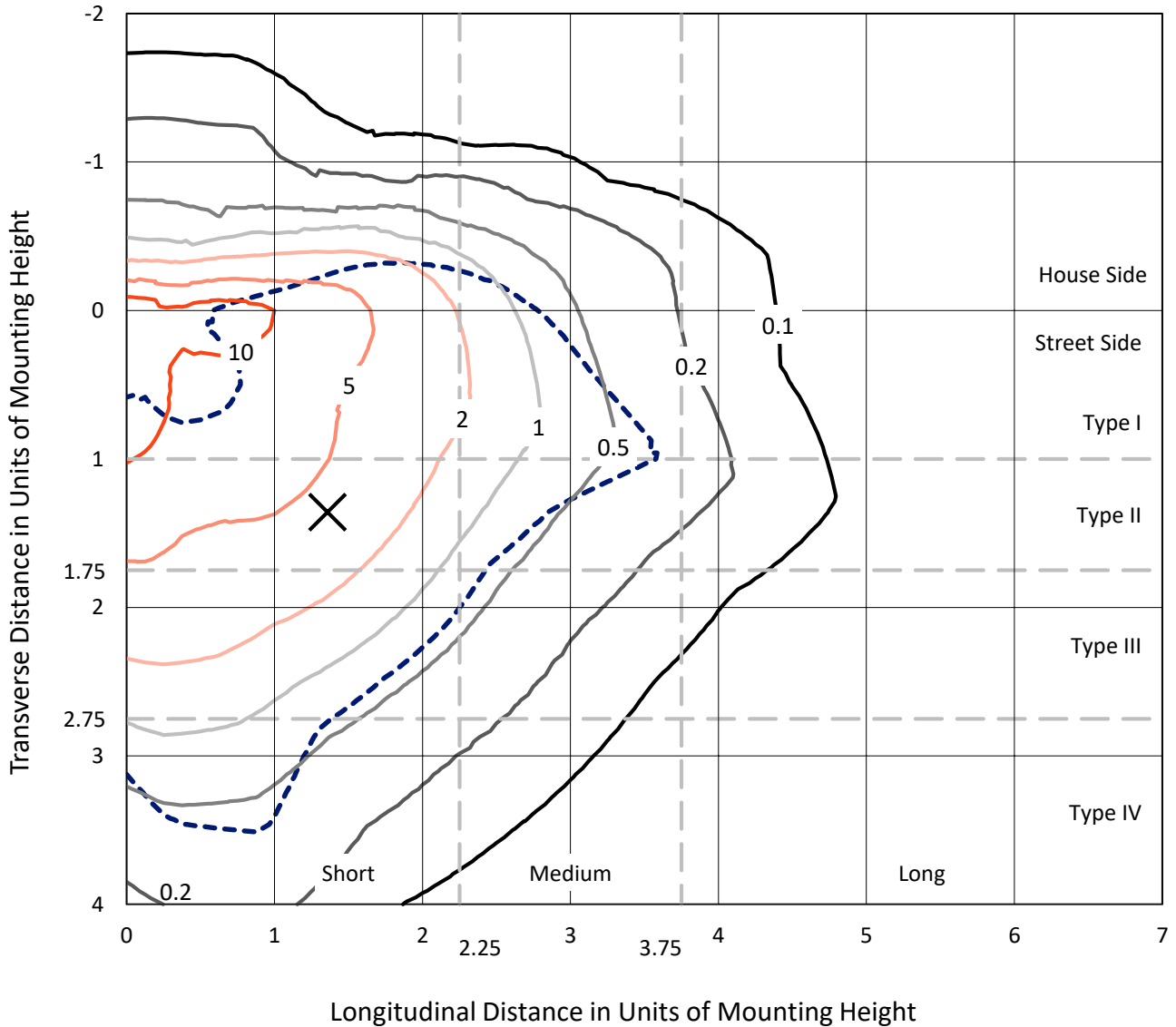
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

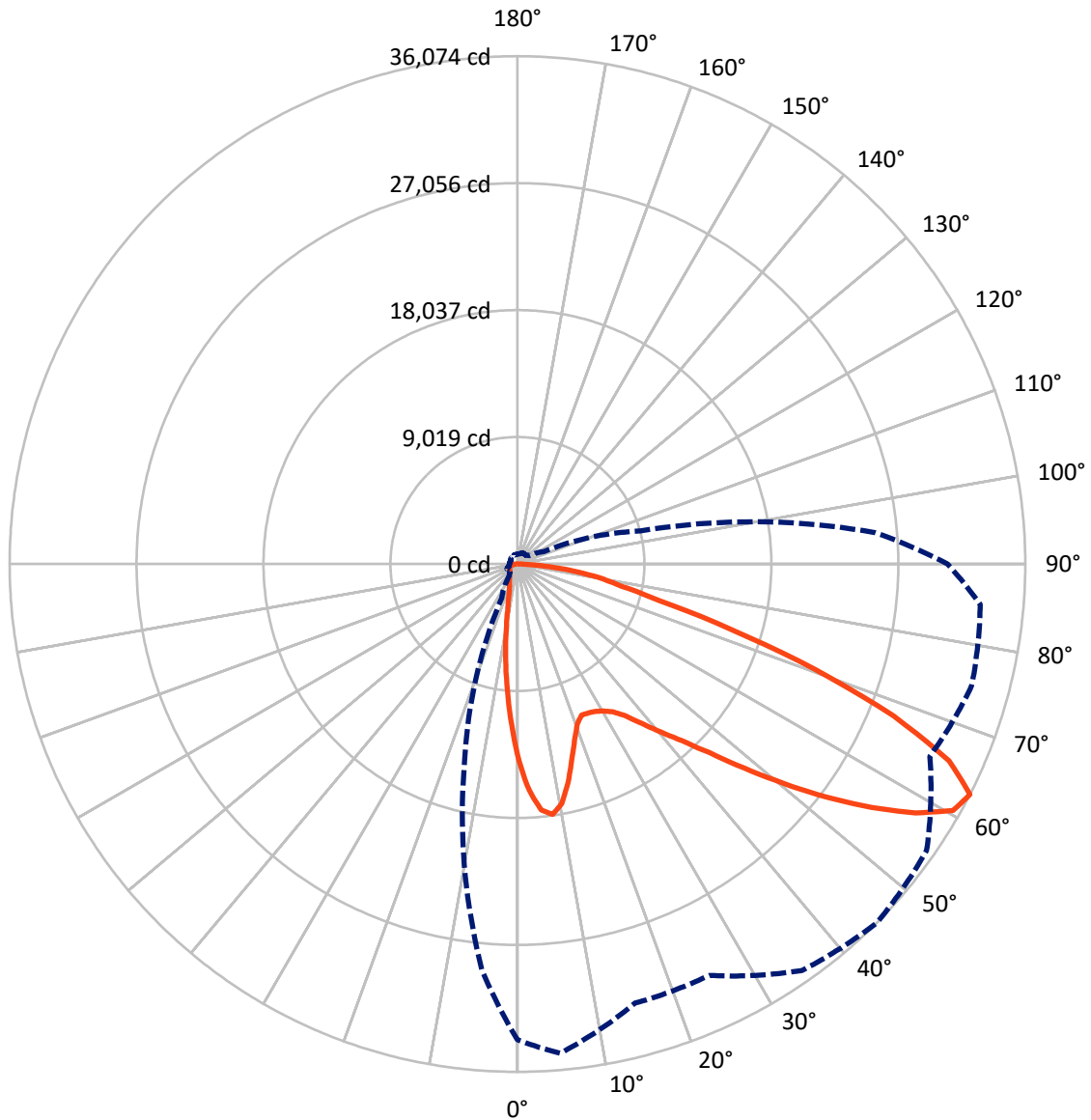
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.3 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	6871.1	0.0	6871.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	34649.5	0.0	34649.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	41520.5	0.0	41520.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1021.2	2.5
10°-20°	1872.5	4.5
20°-30°	2730.2	6.6
30°-40°	4204.8	10.1
40°-50°	6188.4	14.9
50°-60°	9077.1	21.9
60°-70°	10146.9	24.4
70°-80°	4967.8	12.0
80°-90°	1311.6	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°	41520.5	100.0
0°-180°	41520.5	100.0



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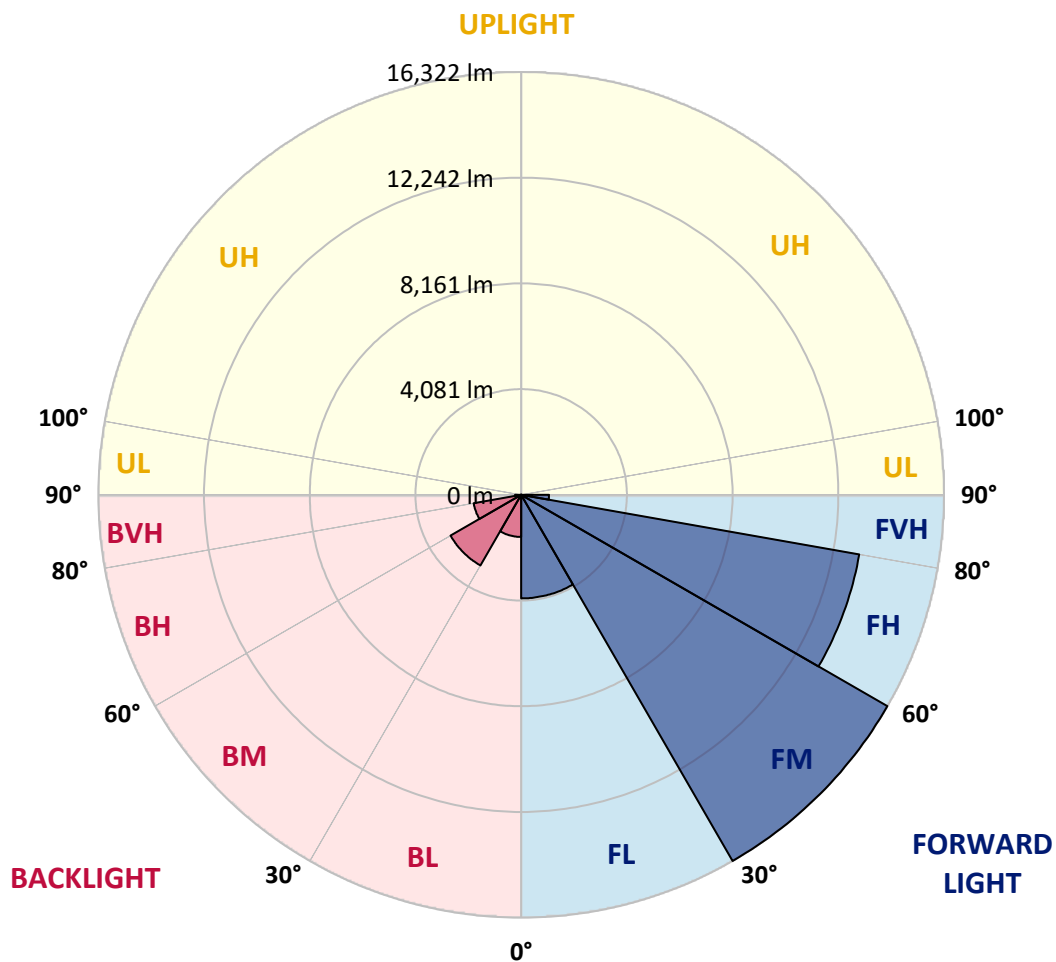
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3998.3	9.6			
FM	(30°-60°)	16322.1	39.3			
FH	(60°-80°)	13251.9	31.9			G5
FVH	(80°-90°)	1077.2	2.6			G5
BL	(0°-30°)	1625.6	3.9	B3/2500		
BM	(30°-60°)	3148.3	7.6	B3/5000		
BH	(60°-80°)	1862.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	234.5	0.6			G3/500
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°	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9
2.5°	14575.6	14808.4	15262.6	15602.8	16015.9	16111.8	16244.2	16114.0	15883.5	15577.7	15477.2
5°	13706.0	14203.7	15306.0	16276.1	17138.8	17540.5	17652.3	17321.4	16652.7	15773.9	15237.6
7.5°	12311.5	13019.0	14511.8	15940.5	17211.9	17962.8	17944.5	17175.3	15945.1	14514.0	13653.5
10°	11108.6	11916.7	13628.5	15226.1	16575.1	17303.2	17022.4	16038.7	14571.1	12923.1	11989.7
12.5°	10435.3	11227.3	12964.3	14568.9	15696.4	15947.4	15732.9	14769.7	13386.5	11720.4	10903.2
15°	10318.9	11188.5	12699.5	14005.0	14637.3	14418.2	14162.5	13731.2	12754.3	11332.4	10480.9
17.5°	10823.3	11781.9	13003.0	13612.5	13505.2	13124.0	13051.0	13098.9	12863.8	11763.7	10782.2
20°	11791.0	12941.5	13726.6	13427.6	12644.7	12119.7	12138.0	12870.7	13566.8	12857.0	11736.3
22.5°	13149.1	14461.6	14769.7	13525.8	12281.9	11658.7	11809.4	12996.2	14687.5	14454.7	13023.6
25°	14906.6	16102.6	15881.2	13881.9	12318.4	11715.8	11836.8	13429.9	16011.3	16052.5	14616.7
27.5°	16609.3	17718.6	16814.8	14354.3	12469.0	11850.5	12010.2	14112.3	17275.8	17787.1	16438.1
30°	17937.7	18709.2	17184.4	14785.6	12765.7	12112.9	12311.5	14760.6	17851.0	18957.9	17839.5
32.5°	19037.8	19592.5	17773.4	15319.7	13311.1	12526.0	12875.3	15548.0	18679.5	20071.8	19211.3
35°	20443.8	20601.3	18506.0	15915.5	14153.4	13245.0	13678.7	16319.4	19469.2	21197.0	20562.5
37.5°	22091.7	21888.6	19197.6	16730.3	15242.2	14370.2	14728.5	17166.2	20119.7	22472.9	21943.4
40°	23721.4	23233.0	20065.0	17994.7	16830.7	15696.4	16120.9	18070.1	20726.8	23751.1	23292.3
42.5°	25106.8	24383.3	20920.9	19384.8	18309.7	17159.4	17666.1	18980.8	21306.5	24842.1	24463.2
45°	26131.7	25232.4	21735.7	20720.0	20347.9	19104.0	19343.7	20023.9	21934.2	25752.8	25426.4
47.5°	27046.9	26086.0	22657.7	22066.6	22130.5	21633.0	21247.2	21238.1	22673.8	26496.9	26337.1
50°	28272.6	27270.6	23648.4	23454.3	24805.5	24474.6	23623.2	22655.5	23609.6	27341.3	27323.1
52.5°	29961.6	29146.7	24858.0	24949.4	27302.6	27519.4	26464.9	24358.2	25074.9	28891.1	28781.5
55°	31958.7	31484.0	26506.0	26668.0	30365.6	30520.8	29473.2	26487.7	27229.5	31134.7	30831.2
57.5°	33517.6	33417.2	28313.6	28731.3	32652.6	33351.1	32387.9	28952.8	29658.0	33024.6	32262.3
60°	34138.4	34624.6	30237.8	30812.9	34768.5	35542.1	34697.7	31118.8	31810.4	33807.5	32164.1
62.5°	33802.9	34889.4	32287.4	32239.4	35240.9	36074.0	35480.5	32323.9	33405.8	32999.5	30536.8
65°	32253.1	33937.6	33476.6	31872.0	33624.9	33693.3	33501.6	31785.2	33782.4	30445.5	27391.6
67.5°	28877.4	31301.4	31910.8	28722.2	29265.5	28820.4	28498.6	28836.4	31819.5	26617.8	23020.7
70°	23520.5	27167.9	27460.0	22972.7	22726.3	22427.3	21785.9	23641.5	27946.2	21815.6	18266.3
72.5°	17294.0	21128.5	22025.6	16849.0	15707.7	15769.4	15262.6	17816.7	22721.7	16205.3	13637.6
75°	11832.2	15299.2	17232.4	11756.9	10387.3	10412.5	10348.6	12624.1	18097.4	11273.0	10204.8
77.5°	8643.6	10930.6	12996.2	7904.1	7673.6	7532.1	7497.8	8833.1	13875.0	8184.8	7924.6
80°	6936.3	8075.3	8730.4	5477.9	5891.0	5879.6	5690.2	6073.6	9061.3	5986.8	5927.5
82.5°	4811.3	6205.9	7073.3	4293.2	3976.0	3909.8	3955.4	4523.8	6404.5	4092.4	3891.6
85°	2538.0	4122.1	7004.9	3804.9	2360.0	1883.0	2341.7	3704.4	5548.6	2168.3	1899.0
87.5°	324.1	1191.4	4638.0	1517.9	931.2	502.2	1111.5	2086.1	3562.9	442.8	385.8
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°	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9
2.5°	15219.4	14915.7	14518.6	14151.1	13769.9	13391.0	12895.8	12585.4	12370.9	12329.7	12238.5
5°	14849.6	13840.7	13078.4	12418.7	11820.7	10976.3	10508.4	10120.4	9912.6	9892.1	9841.9
7.5°	13144.6	11752.3	10722.9	9789.4	8942.6	8260.1	7506.9	7155.4	7011.6	7045.9	7080.1
10°	11371.1	9814.5	8632.2	7678.2	6931.8	6356.6	5751.7	5343.2	5060.1	5003.2	4991.7
12.5°	10074.7	8367.4	7219.4	6546.1	5968.6	5427.7	4786.3	4304.7	3937.2	3811.7	3727.2
15°	9526.9	7659.9	6457.1	5731.2	5094.4	4407.4	3811.7	3307.3	2969.4	2859.9	2798.3
17.5°	9643.4	7463.6	5932.1	5003.2	4188.3	3471.6	2720.6	2289.3	2086.1	2033.6	2033.6
20°	10255.0	7427.0	5498.4	4332.1	3316.4	2485.6	1869.3	1622.8	1556.6	1549.8	1568.1
22.5°	11113.2	7554.9	5174.3	3750.0	2576.9	1814.5	1456.2	1364.9	1335.3	1342.1	1362.6
25°	12391.4	7986.3	4939.2	3231.9	2022.3	1485.8	1298.7	1243.9	1230.2	1248.5	1273.6
27.5°	13906.9	8417.7	4793.1	2841.7	1707.3	1358.1	1234.8	1177.7	1186.8	1209.7	1232.6
30°	15237.6	8771.4	4562.6	2563.2	1609.1	1364.9	1234.8	1157.2	1148.1	1152.7	1159.5
32.5°	16431.2	9011.1	4293.2	2298.5	1387.7	1212.0	1152.7	1141.2	1091.0	1072.8	1075.0
35°	17460.6	9011.1	4131.2	2143.2	1243.9	1075.0	979.2	922.1	897.0	899.3	924.3
37.5°	18453.5	8830.7	4051.3	2056.4	1166.4	1022.5	938.0	887.8	853.7	846.8	851.3
40°	19330.0	8568.2	3960.0	2019.9	1106.9	990.6	910.7	869.6	833.1	821.6	824.0
42.5°	20033.0	8356.0	3859.6	1972.0	1070.4	967.7	892.4	855.9	814.8	803.4	801.2
45°	20793.0	8285.3	3727.2	1876.2	1088.7	970.1	887.8	849.0	808.0	794.3	789.7
47.5°	21795.0	8506.7	3590.3	1762.0	1127.5	981.4	894.7	849.0	805.7	794.3	789.7
50°	23057.2	9027.0	3416.9	1595.4	1088.7	1013.4	892.4	842.2	805.7	794.3	785.1
52.5°	24677.8	9730.0	3188.5	1403.7	1065.9	1091.0	887.8	828.5	794.3	778.4	762.3
55°	26647.5	10305.2	2916.9	1246.3	1013.4	1070.4	881.1	812.5	776.0	753.2	739.5
57.5°	28090.0	10513.0	2567.7	1143.5	940.4	1036.2	871.9	792.0	753.2	735.0	716.7
60°	27804.7	10111.3	2273.3	1079.6	897.0	935.8	865.0	773.8	732.6	718.9	703.0
62.5°	25520.0	9061.3	2083.9	1050.0	869.6	853.7	871.9	755.4	714.4	700.7	696.1
65°	22094.0	7511.5	2008.6	1043.1	846.8	805.7	810.3	735.0	693.9	682.4	677.9
67.5°	18225.3	6062.2	1942.4	1065.9	817.1	771.5	748.6	707.6	673.3	662.0	652.7
70°	14372.6	5041.9	1912.7	1052.2	780.6	737.2	712.1	677.9	648.2	636.8	629.9
72.5°	11574.3	4259.1	1896.8	1038.5	732.6	691.6	668.8	639.0	607.1	602.5	595.8
75°	9793.9	3348.3	1737.0	995.1	677.9	636.8	620.8	593.4	561.5	561.5	556.9
77.5°	7554.9	2421.6	1444.8	881.1	620.8	575.2	561.5	540.9	504.4	511.3	509.0
80°	5580.6	1579.4	1129.8	730.4	550.0	506.7	499.8	479.4	440.5	449.7	449.7
82.5°	3823.1	1036.2	812.5	598.0	470.1	429.1	429.1	408.6	365.2	369.8	383.4
85°	1919.6	712.1	607.1	463.3	365.2	344.6	344.6	328.7	285.3	287.6	305.9
87.5°	584.3	429.1	401.7	330.9	262.5	257.9	246.5	235.1	207.7	205.4	216.9
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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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9
2.5°	12099.3	11969.1	11811.6	11464.7	11348.3	11341.5	11446.4	11336.9	11546.9	11457.9	11556.0
5°	9757.4	9629.6	9453.9	9011.1	8741.7	8559.1	8472.4	8216.8	8401.7	8267.0	8378.9
7.5°	7176.0	7205.7	7089.3	6829.0	6242.5	5948.0	5774.6	5619.4	5754.0	5740.3	5954.9
10°	5044.2	5124.1	5041.9	4779.4	4304.7	4142.6	4174.6	4236.2	4412.0	4503.2	4834.2
12.5°	3631.4	3626.8	3574.3	3339.2	3026.5	3044.8	3174.8	3282.1	3444.2	3540.0	3877.9
15°	2711.5	2670.4	2647.6	2455.9	2277.9	2316.7	2380.6	2392.0	2494.7	2551.8	2825.7
17.5°	2049.6	2070.1	2095.3	1958.3	1823.7	1798.6	1748.3	1686.7	1716.4	1727.8	1864.7
20°	1627.4	1709.6	1771.1	1675.3	1538.4	1465.4	1401.4	1360.3	1360.3	1358.1	1396.8
22.5°	1422.0	1481.3	1547.5	1481.3	1358.1	1294.1	1257.6	1225.7	1221.1	1221.1	1257.6
25°	1310.1	1353.5	1417.4	1371.8	1280.4	1232.6	1198.3	1157.2	1141.2	1136.7	1161.8
27.5°	1255.4	1273.6	1305.6	1264.5	1186.8	1164.0	1154.9	1118.4	1097.8	1086.5	1111.5
30°	1161.8	1157.2	1159.5	1118.4	1056.8	1054.5	1070.4	1077.3	1070.4	1068.2	1106.9
32.5°	1075.0	1065.9	1063.7	1027.1	970.1	956.4	970.1	983.8	999.7	1022.5	1068.2
35°	965.5	988.3	1002.0	970.1	901.5	860.5	844.5	819.4	805.7	805.7	858.2
37.5°	878.7	931.2	951.8	922.1	846.8	789.7	762.3	757.8	760.1	769.2	819.4
40°	849.0	887.8	906.1	876.5	801.2	748.6	732.6	728.1	732.6	746.3	796.6
42.5°	830.8	858.2	855.9	819.4	757.8	721.3	712.1	707.6	712.1	725.8	780.6
45°	814.8	833.1	814.8	771.5	714.4	696.1	698.5	696.1	700.7	714.4	766.9
47.5°	801.2	808.0	785.1	741.8	682.4	677.9	687.0	693.9	698.5	709.8	764.7
50°	780.6	780.6	760.1	714.4	655.1	657.3	668.8	684.8	687.0	700.7	744.1
52.5°	755.4	753.2	739.5	696.1	632.3	639.0	639.0	657.3	662.0	677.9	723.5
55°	735.0	730.4	723.5	682.4	611.7	623.1	616.2	623.1	634.5	650.5	700.7
57.5°	716.7	707.6	707.6	671.1	595.8	600.3	584.3	593.4	607.1	620.8	673.3
60°	698.5	689.3	693.9	655.1	570.6	566.0	559.2	577.5	582.1	598.0	650.5
62.5°	677.9	671.1	673.3	636.8	552.4	540.9	540.9	556.9	559.2	582.1	632.3
65°	662.0	652.7	650.5	618.6	531.8	518.1	525.0	531.8	536.3	559.2	607.1
67.5°	645.9	627.7	627.7	602.5	509.0	495.3	509.0	506.7	513.5	534.1	572.9
70°	625.4	600.3	602.5	591.2	486.2	470.1	481.6	479.4	483.9	497.6	536.3
72.5°	593.4	572.9	577.5	572.9	463.3	440.5	445.1	445.1	445.1	456.4	497.6
75°	552.4	536.3	550.0	561.5	436.0	404.0	408.6	408.6	401.7	408.6	458.8
77.5°	502.2	493.0	538.7	522.7	404.0	365.2	365.2	360.6	346.9	356.1	410.8
80°	447.3	440.5	497.6	438.2	367.4	317.2	312.7	301.3	287.6	294.4	349.2
82.5°	390.3	383.4	417.7	335.5	317.2	262.5	251.0	230.6	216.9	223.7	273.8
85°	319.6	319.6	321.8	253.4	241.9	200.8	187.2	159.8	143.8	148.3	196.3
87.5°	228.2	235.1	216.9	173.5	143.8	111.8	102.7	86.7	73.0	84.5	102.7
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: P191305

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9	14027.9
2.5°	12058.1	12309.2	12594.5	12959.7	13272.4	13785.9	14279.0	14575.6
5°	9015.7	9433.3	9953.7	10622.5	11245.6	12181.4	13110.3	13706.0
7.5°	6452.5	6899.8	7461.3	8296.6	9177.7	10371.4	11599.3	12311.5
10°	5338.7	5797.4	6269.9	6833.6	7554.9	8853.5	10305.2	11108.6
12.5°	4416.5	4907.2	5416.2	6009.6	6678.4	7837.8	9510.9	10435.3
15°	3380.3	3928.0	4528.4	5279.2	6116.9	7456.7	9314.7	10318.9
17.5°	2316.7	2928.4	3665.6	4592.2	5617.1	7333.4	9666.2	10823.3
20°	1595.4	2040.5	2827.9	3914.4	5146.9	7317.5	10341.7	11791.0
22.5°	1335.3	1533.8	2109.0	3291.2	4793.1	7513.8	11389.3	13149.1
25°	1234.8	1353.5	1684.4	2750.3	4535.3	7965.7	12831.9	14906.6
27.5°	1175.5	1282.8	1529.2	2396.6	4332.1	8490.7	14235.6	16609.3
30°	1198.3	1307.8	1485.8	2216.2	4055.9	8928.9	15481.7	17937.7
32.5°	1079.6	1127.5	1273.6	2056.4	3857.3	9296.4	16572.8	19037.8
35°	919.8	1004.2	1136.7	1981.1	3861.8	9542.9	17761.9	20443.8
37.5°	876.5	960.9	1056.8	1953.7	3914.4	9805.4	19126.8	22091.7
40°	849.0	926.7	1008.8	1937.8	3964.5	10045.1	20464.3	23721.4
42.5°	830.8	901.5	1004.2	1883.0	3989.7	10259.6	21564.5	25106.8
45°	828.5	901.5	1022.5	1828.2	4028.5	10490.1	22486.6	26131.7
47.5°	830.8	931.2	988.3	1762.0	4028.5	10875.8	23568.5	27046.9
50°	821.6	981.4	951.8	1668.4	3934.9	11606.2	25052.1	28272.6
52.5°	817.1	974.6	881.1	1524.7	3772.8	12765.7	26953.3	29961.6
55°	805.7	940.4	830.8	1310.1	3583.4	14030.2	28989.3	31958.7
57.5°	794.3	833.1	803.4	1123.0	3291.2	14920.4	30390.7	33517.6
60°	890.2	728.1	780.6	1031.6	2901.0	15164.5	30335.9	34138.4
62.5°	824.0	682.4	750.9	1011.1	2627.0	14479.8	28934.5	33802.9
65°	645.9	652.7	721.3	1070.4	2554.0	12665.3	26451.2	32253.1
67.5°	591.2	623.1	691.6	1145.8	2560.9	10140.9	22740.0	28877.4
70°	556.9	591.2	657.3	1184.6	2579.2	7559.4	17978.8	23520.5
72.5°	518.1	547.8	618.6	1191.4	2460.5	5491.5	13856.7	17294.0
75°	472.5	499.8	563.7	1038.5	2038.2	3809.4	10599.6	11832.2
77.5°	419.9	440.5	495.3	801.2	1513.3	2437.7	7956.6	8643.6
80°	358.3	369.8	415.4	586.6	1036.2	1524.7	6294.9	6936.3
82.5°	287.6	292.2	321.8	440.5	673.3	979.2	4215.7	4811.3
85°	203.2	203.2	221.4	319.6	458.8	620.8	2289.3	2538.0
87.5°	95.9	98.1	98.1	175.7	239.7	315.0	527.2	324.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)