

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: P269652

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269652
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-09-LED-E1-SLL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 44571 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

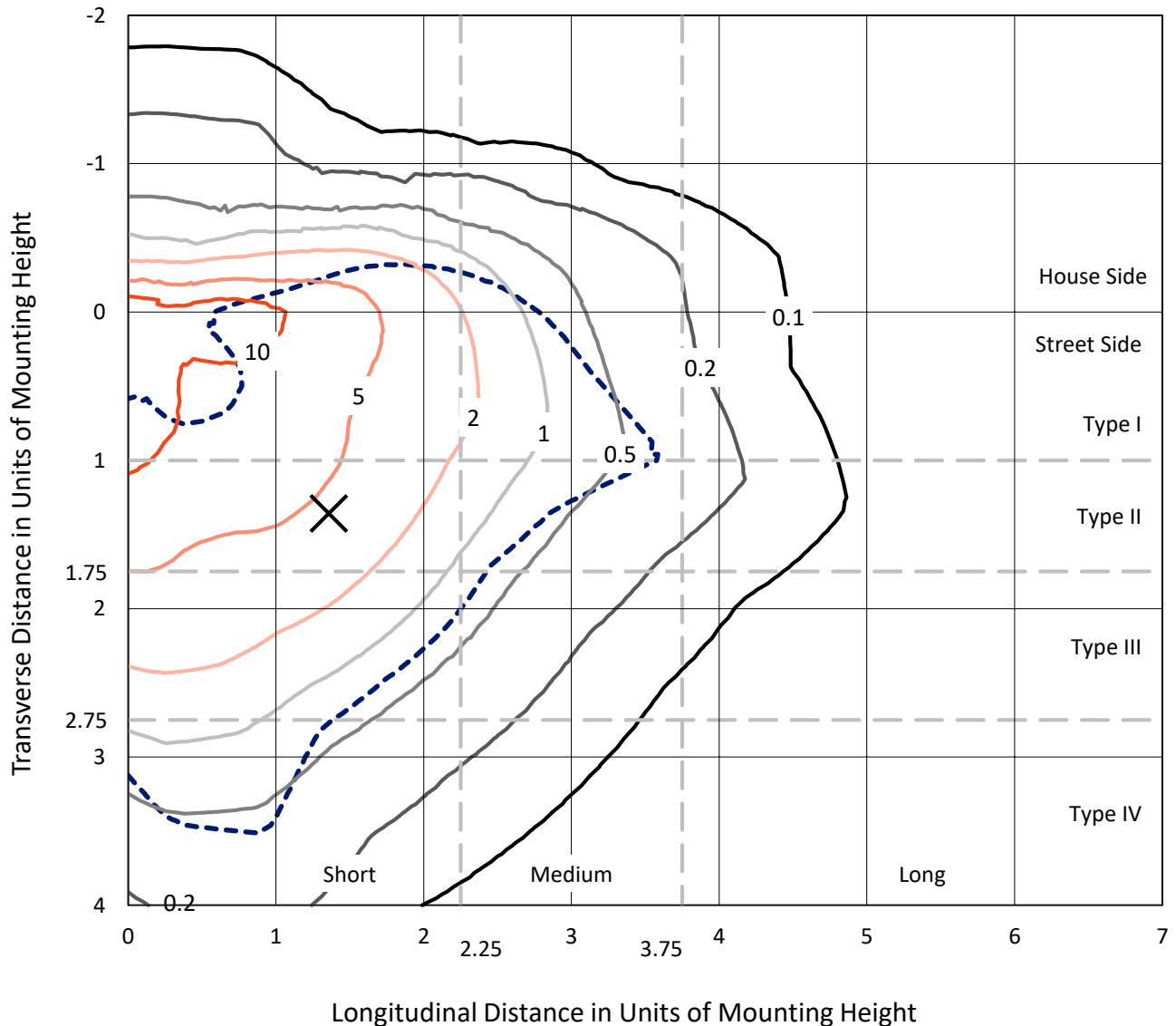


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

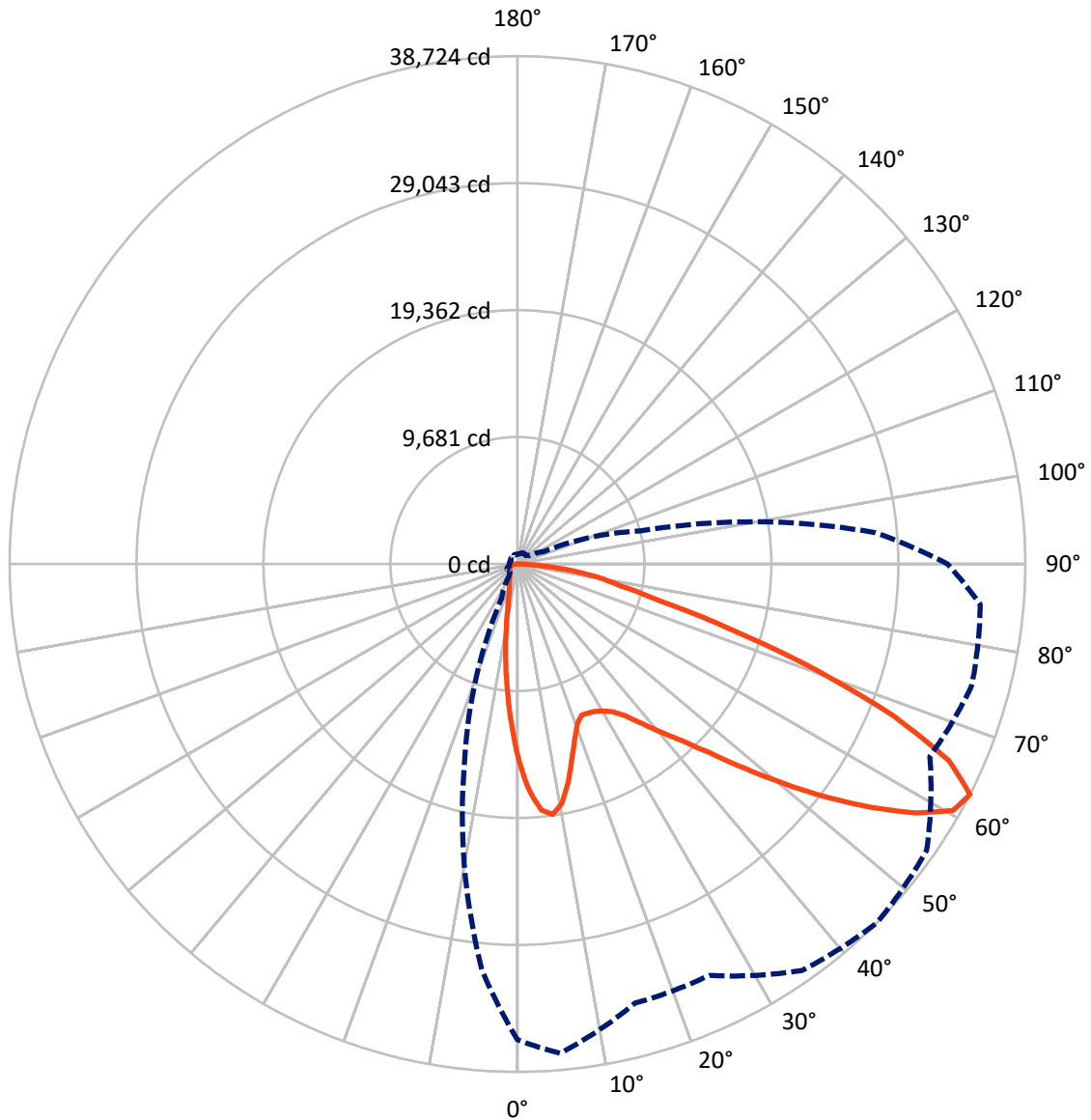


Based on 30 foot mounting height. Maximum calculated value = 19.7 fc
 Type IV - Short - Non-Cutoff

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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	7375.9	0.0	7375.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	37195.1	0.0	37195.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	44571.0	0.0	44571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1096.2	2.5
10°-20°	2010.1	4.5
20°-30°	2930.7	6.6
30°-40°	4513.8	10.1
40°-50°	6643.1	14.9
50°-60°	9744.0	21.9
60°-70°	10892.4	24.4
70°-80°	5332.8	12.0
80°-90°	1408.0	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°	44571.0	100.0
0°-180°	44571.0	100.0

Coefficient of Utilization



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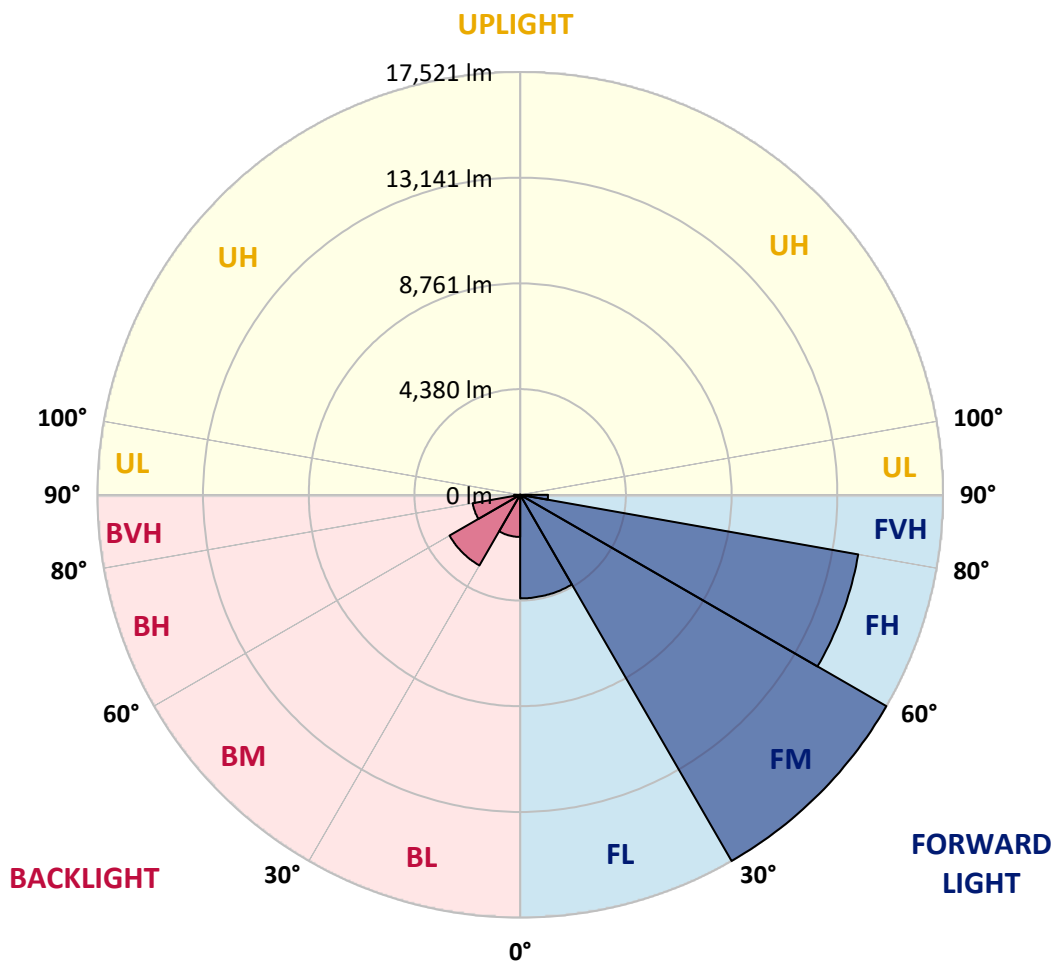
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4292.0	9.6			
FM	(30°-60°)	17521.3	39.3			
FH	(60°-80°)	14225.5	31.9			G5
FVH	(80°-90°)	1156.3	2.6			G5
BL	(0°-30°)	1745.0	3.9	B3/2500		
BM	(30°-60°)	3379.6	7.6	B3/5000		
BH	(60°-80°)	1999.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	251.7	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°	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5
2.5°	15646.5	15896.4	16383.9	16749.1	17192.5	17295.4	17437.5	17297.9	17050.5	16722.0	16614.3
5°	14713.0	15247.1	16430.5	17471.9	18398.0	18829.3	18949.2	18594.0	17876.1	16932.8	16357.1
7.5°	13216.0	13975.6	15577.9	17111.8	18476.3	19282.5	19263.0	18437.3	17116.7	15580.4	14656.7
10°	11924.8	12792.1	14629.7	16344.8	17792.9	18574.4	18273.1	17217.0	15641.6	13872.6	12870.6
12.5°	11202.0	12052.2	13916.7	15639.2	16849.6	17119.1	16888.8	15854.7	14369.9	12581.4	11704.2
15°	11077.0	12010.5	13632.5	15034.0	15712.7	15477.4	15203.0	14740.0	13691.3	12164.8	11251.0
17.5°	11618.5	12647.5	13958.5	14612.5	14497.4	14088.3	14009.8	14061.3	13808.9	12628.0	11574.4
20°	12657.4	13892.3	14735.1	14414.2	13573.7	13010.2	13029.7	13816.3	14563.6	13801.6	12598.5
22.5°	14115.2	15524.0	15854.7	14519.5	13184.2	12515.2	12677.1	13951.0	15766.6	15516.7	13980.4
25°	16001.8	17285.6	17048.0	14901.8	13223.3	12576.5	12706.3	14416.5	17187.7	17231.7	15690.7
27.5°	17829.6	19020.4	18050.2	15408.8	13385.0	12721.1	12892.6	15149.1	18545.0	19093.8	17645.9
30°	19255.6	20083.8	18447.1	15872.0	13703.6	13002.8	13216.0	15845.1	19162.5	20350.8	19150.2
32.5°	20436.5	21031.8	19079.1	16445.4	14289.2	13446.3	13821.2	16690.2	20051.8	21546.4	20622.7
35°	21945.9	22114.8	19865.7	17084.8	15193.3	14218.2	14683.7	17518.4	20899.5	22754.3	22073.2
37.5°	23714.8	23496.7	20608.0	17959.5	16362.0	15426.1	15810.7	18427.4	21597.9	24124.0	23555.5
40°	25464.3	24939.9	21539.1	19316.9	18067.3	16849.6	17305.3	19397.7	22249.6	25496.1	25003.6
42.5°	26951.4	26174.8	22457.8	20809.0	19654.9	18420.0	18963.9	20375.3	22871.9	26667.3	26260.5
45°	28051.6	27086.1	23332.5	22242.3	21842.8	20507.5	20764.9	21495.1	23545.7	27644.8	27294.5
47.5°	29033.9	28002.5	24322.5	23687.9	23756.4	23222.4	22808.2	22798.4	24339.5	28443.6	28272.0
50°	30349.7	29274.1	25385.8	25177.5	26628.0	26272.8	25358.9	24320.1	25344.2	29350.1	29330.5
52.5°	32162.8	31288.1	26684.3	26782.3	29308.5	29541.2	28409.3	26147.8	26917.2	31013.8	30896.1
55°	34306.7	33797.1	28453.4	28627.4	32596.5	32763.2	31638.6	28433.7	29230.0	33422.2	33096.3
57.5°	35980.2	35872.3	30393.9	30842.2	35051.5	35801.3	34767.3	31079.9	31837.0	35450.9	34632.5
60°	36646.5	37168.5	32459.4	33076.8	37322.8	38153.4	37246.9	33405.1	34147.5	36291.3	34527.3
62.5°	36286.4	37452.7	34659.6	34608.1	37830.1	38724.2	38087.2	34698.7	35860.1	35424.0	32780.3
65°	34622.7	36431.0	35936.1	34213.7	36095.3	36168.7	35963.0	34120.5	36264.3	32682.2	29404.0
67.5°	30999.0	33601.1	34255.2	30832.4	31415.5	30937.7	30592.3	30955.0	34157.2	28573.4	24712.1
70°	25248.7	29164.0	29477.5	24660.5	24395.9	24074.9	23386.5	25378.5	29999.3	23418.4	19608.5
72.5°	18564.6	22680.9	23643.7	18086.8	16861.7	16927.9	16383.9	19125.8	24391.0	17395.9	14639.5
75°	12701.5	16423.3	18498.4	12620.6	11150.5	11177.5	11108.9	13551.7	19427.0	12101.2	10954.6
77.5°	9278.7	11733.8	13951.0	8484.9	8237.4	8085.5	8048.6	9482.0	14894.3	8786.1	8506.9
80°	7446.0	8668.6	9371.7	5880.3	6323.8	6311.5	6108.1	6519.8	9726.9	6426.7	6363.0
82.5°	5164.9	6661.9	7593.0	4608.8	4268.1	4197.2	4246.1	4856.1	6875.1	4393.2	4177.5
85°	2724.6	4425.0	7519.4	4084.4	2533.4	2021.4	2513.8	3976.5	5956.2	2327.6	2038.6
87.5°	348.0	1278.9	4978.6	1629.3	999.6	539.1	1193.2	2239.5	3824.7	475.4	414.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5
2.5°	16337.5	16011.6	15585.2	15190.8	14781.6	14374.9	13843.2	13510.0	13279.7	13235.5	13137.6
5°	15940.6	14857.5	14039.3	13331.1	12689.2	11782.7	11280.3	10863.9	10641.0	10618.9	10565.0
7.5°	14110.2	12615.7	11510.7	10508.6	9599.6	8867.0	8058.4	7681.1	7526.8	7563.5	7600.3
10°	12206.6	10535.5	9266.3	8242.3	7441.0	6823.6	6174.3	5735.8	5432.0	5370.6	5358.4
12.5°	10814.9	8982.2	7749.8	7027.0	6407.2	5826.3	5137.9	4620.9	4226.4	4091.7	4001.1
15°	10226.8	8222.6	6931.4	6152.3	5468.7	4731.3	4091.7	3550.2	3187.6	3070.0	3003.8
17.5°	10351.8	8012.0	6367.8	5370.6	4495.9	3726.7	2920.6	2457.5	2239.5	2183.2	2183.2
20°	11008.4	7972.7	5902.4	4650.3	3560.1	2668.1	2006.6	1742.1	1670.9	1663.7	1683.2
22.5°	11929.8	8109.9	5554.4	4025.6	2766.2	1947.9	1563.2	1465.1	1433.3	1440.7	1462.7
25°	13301.7	8573.1	5302.1	3469.3	2170.8	1595.0	1394.1	1335.3	1320.6	1340.2	1367.2
27.5°	14928.7	9036.1	5145.3	3050.5	1832.7	1457.8	1325.4	1264.3	1274.1	1298.6	1323.1
30°	16357.1	9415.9	4897.7	2751.5	1727.4	1465.1	1325.4	1242.3	1232.5	1237.3	1244.7
32.5°	17638.5	9673.0	4608.8	2467.3	1489.7	1301.0	1237.3	1225.1	1171.2	1151.5	1154.1
35°	18743.5	9673.0	4434.8	2300.6	1335.3	1154.1	1051.0	989.8	963.0	965.4	992.3
37.5°	19809.3	9479.5	4349.0	2207.6	1252.0	1097.6	1007.0	953.1	916.4	908.9	913.8
40°	20750.2	9197.7	4251.0	2168.4	1188.3	1063.4	977.5	933.5	894.4	882.0	884.6
42.5°	21504.7	8969.9	4143.2	2116.9	1149.1	1038.9	958.0	918.7	874.7	862.5	859.9
45°	22320.6	8893.9	4001.1	2014.0	1168.8	1041.3	953.1	911.4	867.4	852.6	847.7
47.5°	23396.3	9131.6	3854.1	1891.6	1210.3	1053.5	960.5	911.4	864.9	852.6	847.7
50°	24751.2	9690.2	3667.8	1712.7	1168.8	1087.8	958.0	904.1	864.9	852.6	842.8
52.5°	26490.7	10445.0	3422.8	1506.8	1144.3	1171.2	953.1	889.4	852.6	835.6	818.4
55°	28605.3	11062.4	3131.2	1337.8	1087.8	1149.1	945.7	872.3	833.1	808.6	793.8
57.5°	30153.8	11285.2	2756.4	1227.5	1009.4	1112.3	935.9	850.2	808.6	788.9	769.4
60°	29847.4	10854.1	2440.3	1159.0	963.0	1004.6	928.6	830.7	786.5	771.9	754.7
62.5°	27394.9	9726.9	2237.0	1127.1	933.5	916.4	935.9	811.0	767.0	752.2	747.3
65°	23717.3	8063.4	2156.1	1119.6	908.9	864.9	869.7	788.9	744.9	732.6	727.6
67.5°	19564.2	6507.5	2085.1	1144.3	877.1	828.1	803.7	759.5	722.7	710.5	700.8
70°	15428.5	5412.4	2053.2	1129.4	837.9	791.3	764.5	727.6	695.8	683.6	676.2
72.5°	12424.5	4572.0	2036.1	1114.7	786.5	742.4	717.8	686.0	651.7	646.8	639.5
75°	10513.6	3594.4	1864.5	1068.3	727.6	683.6	666.5	637.1	602.8	602.8	597.8
77.5°	8109.9	2599.5	1551.0	945.7	666.5	617.5	602.8	580.7	541.5	548.9	546.3
80°	5990.5	1695.6	1212.8	784.0	590.5	544.0	536.6	514.5	472.9	482.7	482.7
82.5°	4103.9	1112.3	872.3	641.8	504.7	460.7	460.7	438.6	392.0	397.0	411.7
85°	2060.5	764.5	651.7	497.4	392.0	370.0	370.0	352.9	306.2	308.7	328.3
87.5°	627.2	460.7	431.2	355.3	281.8	276.9	264.6	252.3	223.0	220.5	232.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5
2.5°	12988.1	12848.5	12679.4	12307.0	12182.0	12174.6	12287.3	12169.8	12395.3	12299.7	12405.1
5°	10474.2	10337.1	10148.4	9673.0	9384.1	9188.0	9094.9	8820.5	9019.0	8874.4	8994.4
7.5°	7703.2	7735.0	7610.1	7330.8	6701.0	6385.1	6198.8	6032.2	6176.7	6162.1	6392.3
10°	5414.9	5500.5	5412.4	5130.6	4620.9	4447.0	4481.3	4547.4	4736.1	4834.0	5189.4
12.5°	3898.1	3893.3	3836.9	3584.5	3248.9	3268.5	3408.1	3523.3	3697.2	3800.2	4162.7
15°	2910.8	2866.6	2842.1	2636.3	2445.2	2486.9	2555.5	2567.7	2677.9	2739.2	3033.2
17.5°	2200.2	2222.2	2249.3	2102.3	1957.6	1930.6	1876.7	1810.7	1842.6	1854.7	2001.8
20°	1746.9	1835.1	1901.4	1798.3	1651.4	1573.0	1504.4	1460.3	1460.3	1457.8	1499.5
22.5°	1526.4	1590.1	1661.1	1590.1	1457.8	1389.1	1350.1	1315.7	1310.8	1310.8	1350.1
25°	1406.3	1452.9	1521.5	1472.5	1374.5	1323.1	1286.4	1242.3	1225.1	1220.2	1247.0
27.5°	1347.5	1367.2	1401.4	1357.3	1274.1	1249.5	1239.8	1200.6	1178.4	1166.3	1193.2
30°	1247.0	1242.3	1244.7	1200.6	1134.4	1132.0	1149.1	1156.5	1149.1	1146.6	1188.3
32.5°	1154.1	1144.3	1141.7	1102.6	1041.3	1026.7	1041.3	1056.0	1073.1	1097.6	1146.6
35°	1036.5	1060.9	1075.6	1041.3	967.8	923.6	906.6	879.6	864.9	864.9	921.2
37.5°	943.3	999.6	1021.7	989.8	908.9	847.7	818.4	813.4	815.9	825.7	879.6
40°	911.4	953.1	972.8	940.9	859.9	803.7	786.5	781.5	786.5	801.2	855.0
42.5°	891.8	921.2	918.7	879.6	813.4	774.2	764.5	759.5	764.5	779.1	837.9
45°	874.7	894.4	874.7	828.1	767.0	747.3	749.7	747.3	752.2	767.0	823.2
47.5°	859.9	867.4	842.8	796.3	732.6	727.6	737.5	744.9	749.7	762.0	820.8
50°	837.9	837.9	815.9	767.0	703.3	705.7	717.8	735.1	737.5	752.2	798.8
52.5°	811.0	808.6	793.8	747.3	678.7	686.0	686.0	705.7	710.5	727.6	776.7
55°	788.9	784.0	776.7	732.6	656.7	668.9	661.5	668.9	681.2	698.3	752.2
57.5°	769.4	759.5	759.5	720.4	639.5	644.4	627.2	637.1	651.7	666.5	722.7
60°	749.7	739.9	744.9	703.3	612.6	607.7	600.2	619.9	624.9	641.8	698.3
62.5°	727.6	720.4	722.7	683.6	592.9	580.7	580.7	597.8	600.2	624.9	678.7
65°	710.5	700.8	698.3	663.9	571.0	556.2	563.5	571.0	575.8	600.2	651.7
67.5°	693.4	673.8	673.8	646.8	546.3	531.6	546.3	544.0	551.3	573.3	615.0
70°	671.4	644.4	646.8	634.7	521.8	504.7	517.0	514.5	519.4	534.1	575.8
72.5°	637.1	615.0	619.9	615.0	497.4	472.9	477.8	477.8	477.8	490.0	534.1
75°	592.9	575.8	590.5	602.8	467.9	433.7	438.6	438.6	431.2	438.6	492.5
77.5°	539.1	529.2	578.1	561.1	433.7	392.0	392.0	387.1	372.3	382.1	441.0
80°	480.2	472.9	534.1	470.4	394.4	340.5	335.6	323.4	308.7	316.1	374.9
82.5°	419.0	411.7	448.3	360.2	340.5	281.8	269.5	247.5	232.8	240.0	294.0
85°	343.1	343.1	345.5	271.9	259.7	215.7	201.0	171.4	154.4	159.3	210.7
87.5°	245.0	252.3	232.8	186.2	154.4	120.1	110.2	93.2	78.4	90.6	110.2
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: P269652

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5	15058.5
2.5°	12944.0	13213.6	13519.9	13911.8	14247.5	14798.8	15328.0	15646.5
5°	9678.0	10126.5	10685.0	11402.9	12071.9	13076.4	14073.6	14713.0
7.5°	6926.6	7406.7	8009.5	8906.2	9852.0	11133.5	12451.5	13216.0
10°	5730.8	6223.4	6730.6	7335.6	8109.9	9504.1	11062.4	11924.8
12.5°	4741.1	5267.8	5814.2	6451.2	7169.1	8413.7	10209.6	11202.0
15°	3628.7	4216.6	4861.1	5667.1	6566.3	8004.5	9998.9	11077.0
17.5°	2486.9	3143.4	3934.9	4929.7	6029.8	7872.2	10376.3	11618.5
20°	1712.7	2190.3	3035.7	4202.0	5525.0	7855.0	11101.6	12657.4
22.5°	1433.3	1646.6	2263.9	3533.0	5145.3	8065.8	12226.1	14115.2
25°	1325.4	1452.9	1808.2	2952.4	4868.5	8551.0	13774.6	16001.8
27.5°	1261.8	1377.0	1641.7	2572.7	4650.3	9114.6	15281.4	17829.6
30°	1286.4	1404.0	1595.0	2379.2	4353.8	9584.9	16619.3	19255.6
32.5°	1159.0	1210.3	1367.2	2207.6	4140.6	9979.5	17790.5	20436.5
35°	987.3	1078.1	1220.2	2126.6	4145.6	10244.0	19067.0	21945.9
37.5°	940.9	1031.6	1134.4	2097.4	4202.0	10525.8	20532.1	23714.8
40°	911.4	994.8	1082.9	2080.1	4255.9	10783.1	21968.0	25464.3
42.5°	891.8	967.8	1078.1	2021.4	4282.8	11013.3	23148.9	26951.4
45°	889.4	967.8	1097.6	1962.5	4324.5	11260.9	24138.6	28051.6
47.5°	891.8	999.6	1060.9	1891.6	4324.5	11674.8	25300.0	29033.9
50°	882.0	1053.5	1021.7	1791.0	4224.0	12459.0	26892.6	30349.7
52.5°	877.1	1046.2	945.7	1636.7	4050.1	13703.6	28933.6	32162.8
55°	864.9	1009.4	891.8	1406.3	3846.7	15061.0	31119.2	34306.7
57.5°	852.6	894.4	862.5	1205.4	3533.0	16016.5	32623.4	35980.2
60°	955.5	781.5	837.9	1107.5	3114.2	16278.6	32564.6	36646.5
62.5°	884.6	732.6	806.0	1085.4	2820.0	15543.6	31060.2	36286.4
65°	693.4	700.8	774.2	1149.1	2741.6	13595.8	28394.5	34622.7
67.5°	634.7	668.9	742.4	1230.0	2749.1	10885.9	24410.6	30999.0
70°	597.8	634.7	705.7	1271.6	2768.7	8114.7	19299.6	25248.7
72.5°	556.2	588.0	663.9	1278.9	2641.2	5894.9	14874.8	18564.6
75°	507.2	536.6	605.2	1114.7	2187.9	4089.3	11378.4	12701.5
77.5°	450.8	472.9	531.6	859.9	1624.5	2616.8	8541.2	9278.7
80°	384.7	397.0	445.9	629.7	1112.3	1636.7	6757.5	7446.0
82.5°	308.7	313.6	345.5	472.9	722.7	1051.0	4525.4	5164.9
85°	218.1	218.1	237.6	343.1	492.5	666.5	2457.5	2724.6
87.5°	102.9	105.3	105.3	188.6	257.3	338.1	566.0	348.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)