

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: P269492

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269492
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-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 35263.6 lumens
Efficiency: N/A
Efficacy: 78.7 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

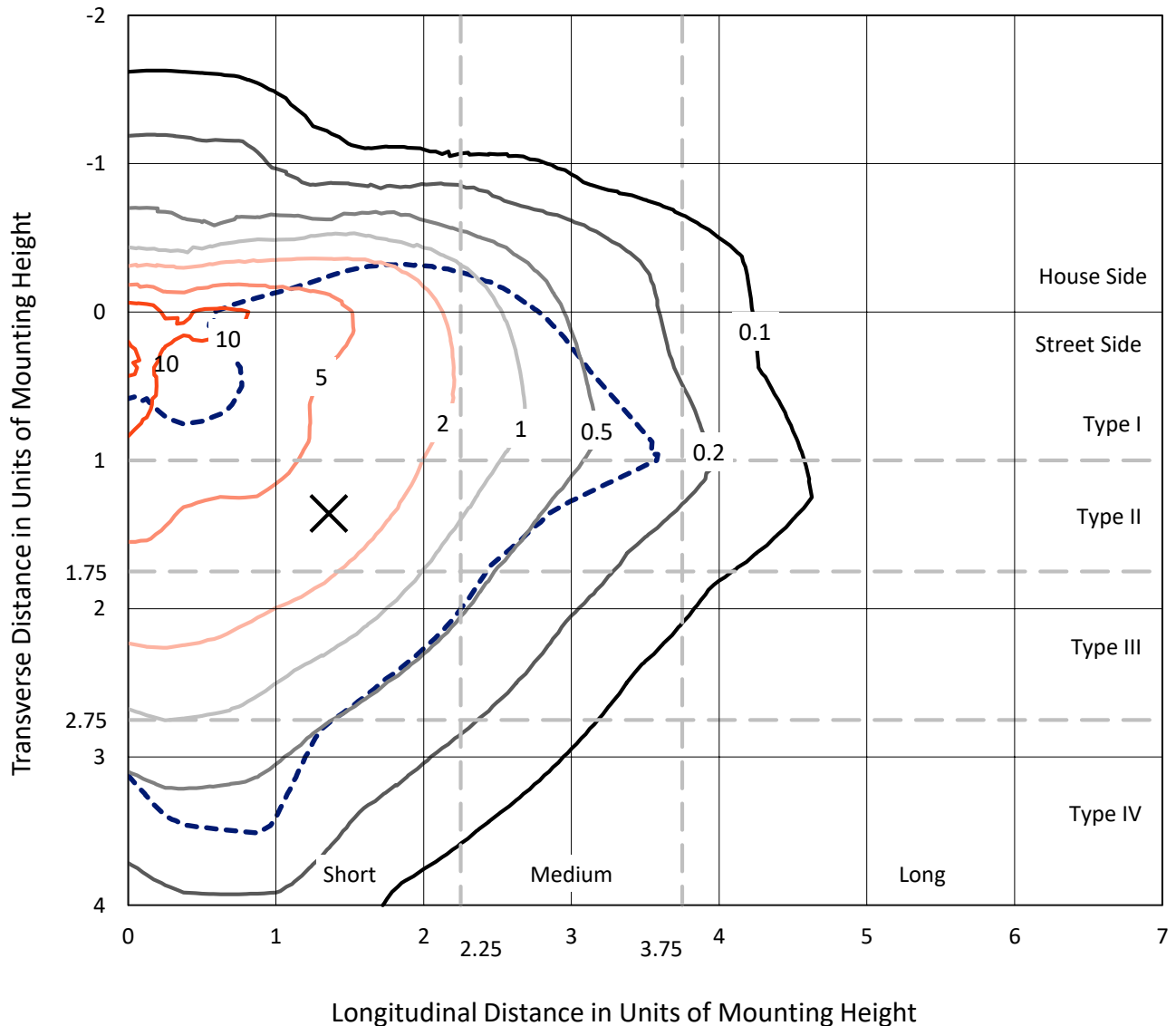


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

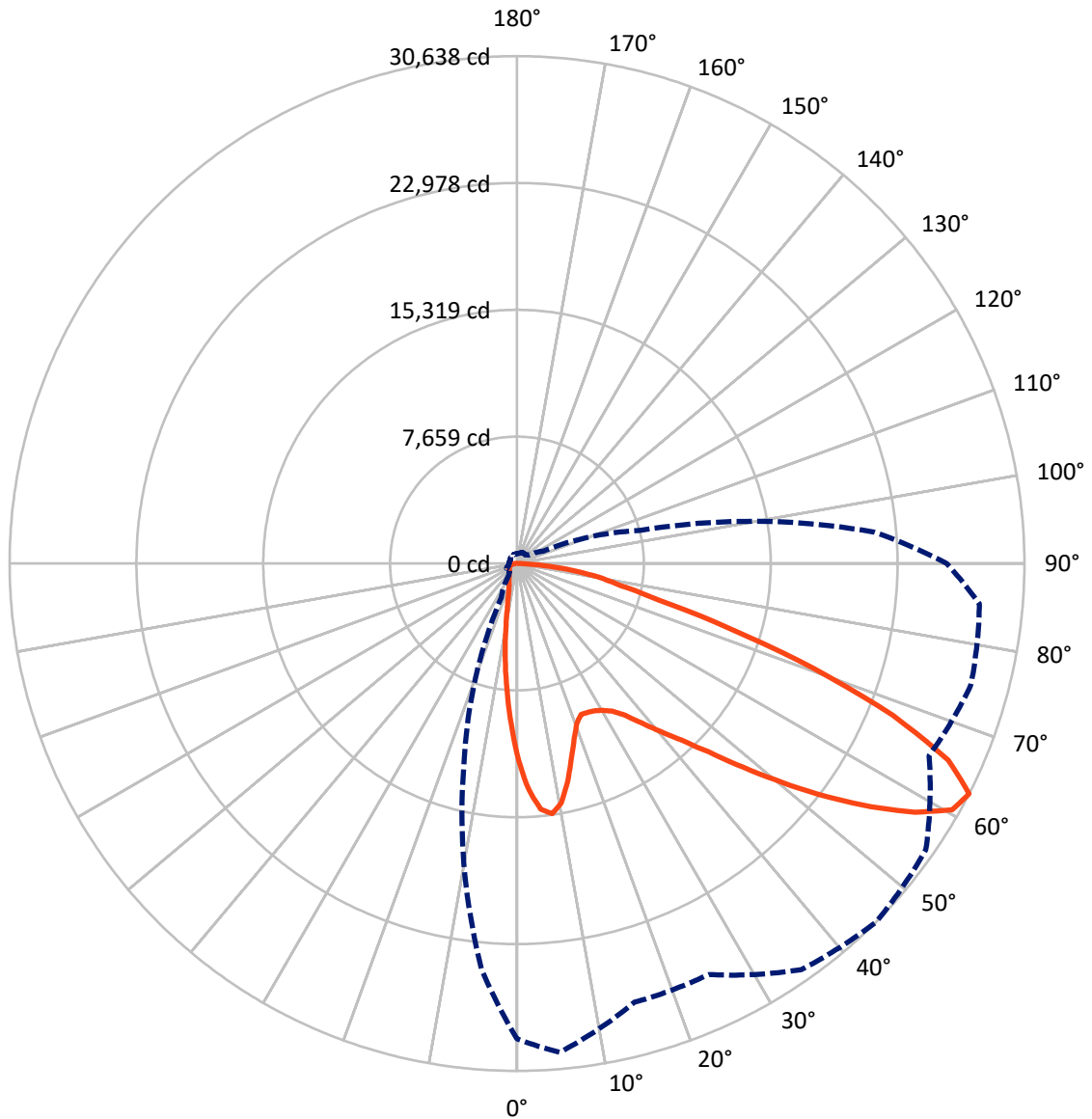


Based on 30 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - Non-Cutoff

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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	5835.6	0.0	5835.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	29428.0	0.0	29428.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	35263.6	0.0	35263.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.3	2.5
10°-20°	1590.4	4.5
20°-30°	2318.7	6.6
30°-40°	3571.2	10.1
40°-50°	5255.9	14.9
50°-60°	7709.2	21.9
60°-70°	8617.8	24.4
70°-80°	4219.2	12.0
80°-90°	1114.0	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°	35263.6	100.0
0°-180°	35263.6	100.0



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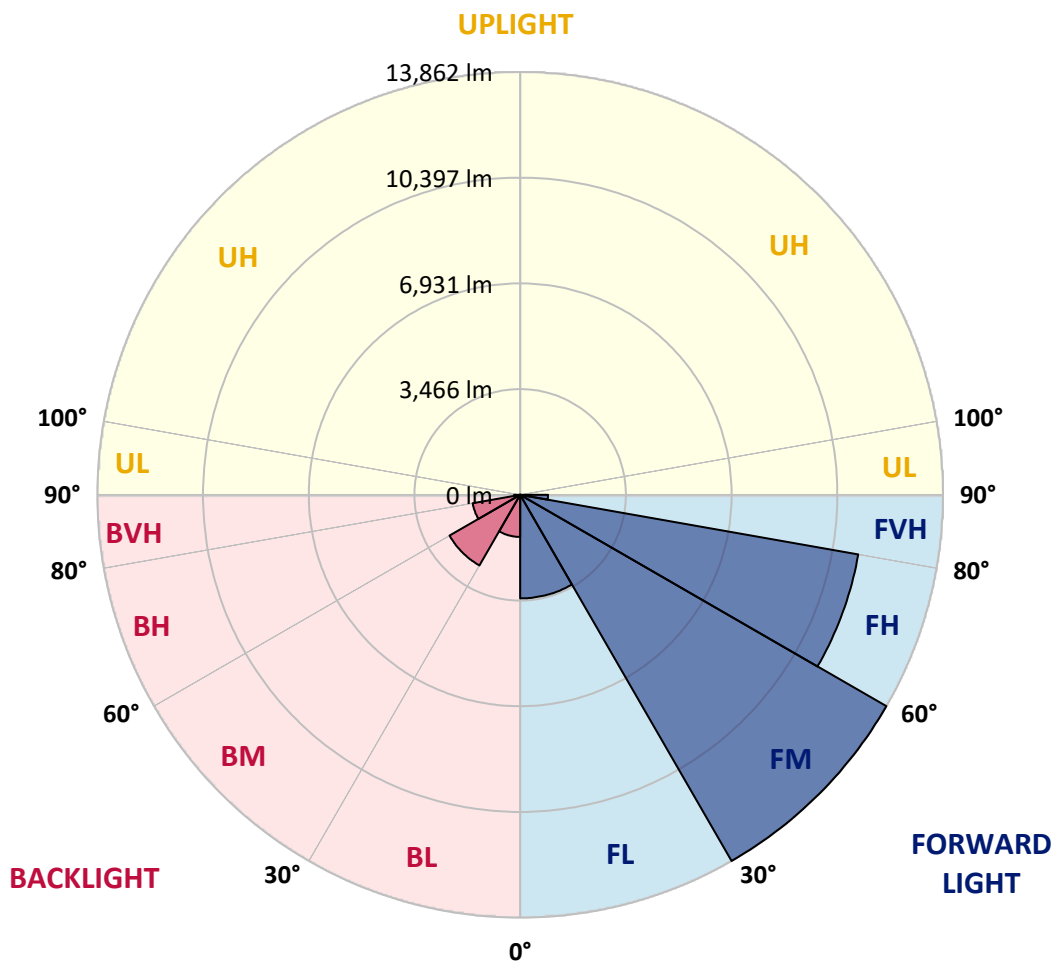
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3395.8	9.6			
FM (30°-60°)	13862.4	39.3			
FH (60°-80°)	11254.9	31.9			G4/12000
FVH (80°-90°)	914.8	2.6			G5
BL (0°-30°)	1380.6	3.9	B3/2500		
BM (30°-60°)	2673.8	7.6	B3/5000		
BH (60°-80°)	1582.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	199.1	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°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	12379.3	12576.9	12962.7	13251.4	13602.3	13683.8	13796.2	13685.8	13489.9	13230.1	13144.9
5°	11640.6	12063.2	12999.6	13823.4	14556.1	14897.3	14992.4	14711.3	14143.3	13397.0	12941.3
7.5°	10456.2	11057.1	12324.9	13538.4	14618.2	15255.9	15240.5	14587.1	13542.3	12326.8	11596.0
10°	9434.5	10120.8	11574.8	12931.7	14077.2	14695.7	14457.2	13621.8	12375.3	10975.8	10182.8
12.5°	8862.8	9535.4	11010.6	12373.3	13330.9	13544.3	13362.0	12543.9	11369.3	9954.2	9260.2
15°	8764.0	9502.5	10785.8	11894.5	12431.6	12245.4	12028.3	11661.9	10832.3	9624.6	8901.6
17.5°	9192.4	10006.5	11043.6	11561.1	11470.1	11146.3	11084.2	11125.0	10925.4	9990.9	9157.4
20°	10014.2	10991.2	11658.1	11404.2	10739.2	10293.4	10308.9	10931.1	11522.4	10919.4	9967.8
22.5°	11167.6	12282.3	12543.9	11487.4	10430.9	9901.7	10029.8	11037.7	12474.1	12276.4	11061.0
25°	12660.4	13676.1	13488.1	11789.9	10462.0	9950.3	10053.0	11406.0	13598.5	13633.3	12414.0
27.5°	14106.4	15048.4	14280.9	12191.2	10589.9	10064.6	10200.3	11985.6	14672.5	15106.6	13961.0
30°	15234.5	15889.8	14594.9	12557.5	10842.0	10287.6	10456.2	12536.1	15161.0	16101.1	15151.3
32.5°	16169.0	16640.1	15094.9	13011.1	11305.3	10638.4	10935.0	13204.9	15864.5	17047.0	16316.3
35°	17363.1	17496.7	15717.3	13517.1	12020.6	11249.0	11617.4	13860.2	16535.3	18002.8	17463.9
37.5°	18762.7	18590.2	16304.6	14209.1	12945.2	12204.7	12509.1	14579.4	17087.7	19086.4	18636.6
40°	20146.7	19731.9	17041.2	15283.0	14294.4	13330.9	13691.5	15347.1	17603.5	20171.9	19782.3
42.5°	21323.3	20708.8	17768.1	16463.5	15550.6	14573.6	15003.9	16120.4	18095.7	21098.5	20776.8
45°	22193.7	21430.0	18460.2	17597.5	17281.7	16225.1	16428.7	17006.4	18629.0	21872.0	21594.7
47.5°	22971.1	22155.0	19243.4	18741.2	18795.5	18373.0	18045.4	18037.6	19257.0	22503.9	22368.2
50°	24012.1	23161.1	20084.8	19919.9	21067.5	20786.4	20063.4	19241.4	20051.7	23221.1	23205.6
52.5°	25446.6	24754.6	21112.1	21189.6	23188.2	23372.5	22476.9	20687.5	21296.3	24537.5	24444.4
55°	27142.7	26739.6	22511.6	22649.3	25789.7	25921.5	25031.7	22496.2	23126.1	26443.0	26185.1
57.5°	28466.7	28381.4	24047.0	24401.6	27732.0	28325.3	27507.2	24589.8	25188.7	28048.0	27400.6
60°	28994.1	29406.8	25681.1	26169.7	29529.1	30186.1	29468.9	26429.4	27016.7	28713.0	27317.2
62.5°	28709.0	29631.8	27421.9	27381.1	29930.3	30637.9	30133.9	27452.9	28371.8	28026.7	25935.1
65°	27392.7	28823.3	28431.8	27069.0	28557.8	28616.0	28453.2	26995.4	28691.5	25857.5	23263.9
67.5°	24525.7	26584.4	27102.0	24394.0	24855.4	24477.3	24204.0	24490.9	27024.5	22606.7	19551.6
70°	19976.1	23073.9	23321.9	19510.8	19301.5	19047.7	18502.8	20078.8	23734.8	18528.1	15513.6
72.5°	14687.9	17944.6	18706.5	14309.9	13340.6	13393.0	12962.7	15131.9	19297.7	13763.3	11582.4
75°	10049.1	12993.8	14635.5	9985.2	8822.1	8843.4	8789.0	10721.8	15370.3	9574.1	8666.9
77.5°	7341.0	9283.4	11037.7	6713.0	6517.3	6397.0	6367.9	7501.9	11784.1	6951.4	6730.5
80°	5891.1	6858.4	7414.7	4652.4	5003.2	4993.6	4832.6	5158.2	7695.8	5084.6	5034.2
82.5°	4086.3	5270.7	6007.3	3646.3	3376.9	3320.7	3359.4	3842.1	5439.3	3475.7	3305.1
85°	2155.7	3501.0	5949.2	3231.5	2004.4	1599.3	1988.8	3146.1	4712.5	1841.5	1612.8
87.5°	275.3	1011.9	3939.0	1289.1	790.9	426.4	944.1	1771.7	3026.0	376.1	327.6
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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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	12925.8	12668.1	12330.8	12018.7	11694.9	11373.1	10952.5	10688.8	10506.7	10471.7	10394.2
5°	12611.8	11755.0	11107.5	10547.3	10039.5	9322.3	8924.8	8595.3	8418.8	8401.4	8358.8
7.5°	11163.7	9981.2	9107.0	8314.3	7595.0	7015.5	6375.7	6077.2	5955.0	5984.1	6013.3
10°	9657.6	8335.6	7331.3	6521.1	5887.2	5398.8	4885.1	4538.0	4297.6	4249.2	4239.6
12.5°	8556.4	7106.5	6131.4	5559.6	5069.1	4609.7	4065.0	3656.0	3343.9	3237.3	3165.5
15°	8091.3	6505.5	5484.1	4867.6	4326.6	3743.2	3237.3	2808.9	2522.0	2428.9	2376.6
17.5°	8190.1	6338.9	5038.1	4249.2	3557.1	2948.4	2310.7	1944.3	1771.7	1727.3	1727.3
20°	8709.6	6307.9	4669.7	3679.3	2816.6	2110.9	1587.7	1378.3	1322.0	1316.2	1331.7
22.5°	9438.5	6416.5	4394.6	3184.9	2188.5	1541.1	1236.7	1159.3	1134.0	1139.8	1157.2
25°	10524.1	6782.8	4194.8	2745.0	1717.5	1261.9	1102.9	1056.4	1044.9	1060.4	1081.6
27.5°	11811.3	7149.2	4070.8	2413.4	1450.0	1153.5	1048.7	1000.3	1008.0	1027.4	1046.7
30°	12941.3	7449.6	3875.1	2177.0	1366.6	1159.3	1048.7	982.8	975.1	979.0	984.7
32.5°	13955.2	7653.2	3646.3	1952.0	1178.5	1029.4	979.0	969.2	926.6	911.2	913.0
35°	14829.4	7653.2	3508.7	1820.2	1056.4	913.0	831.7	783.1	761.9	763.7	785.1
37.5°	15672.6	7499.9	3440.8	1746.6	990.7	868.4	796.7	754.0	725.0	719.2	723.0
40°	16417.1	7277.1	3363.3	1715.6	940.2	841.4	773.5	738.5	707.5	697.9	699.8
42.5°	17014.1	7096.8	3277.9	1674.9	909.2	821.9	758.0	726.9	692.1	682.4	680.3
45°	17659.6	7036.8	3165.5	1593.5	924.6	823.8	754.0	721.1	686.2	674.5	670.8
47.5°	18510.7	7224.8	3049.2	1496.5	957.7	833.5	759.8	721.1	684.2	674.5	670.8
50°	19582.6	7666.8	2902.0	1355.1	924.6	860.7	758.0	715.3	684.2	674.5	666.8
52.5°	20959.0	8263.8	2708.1	1192.2	905.3	926.6	754.0	703.6	674.5	661.1	647.5
55°	22631.9	8752.2	2477.3	1058.5	860.7	909.2	748.3	690.1	659.0	639.8	628.0
57.5°	23856.9	8928.8	2180.7	971.2	798.7	880.1	740.6	672.7	639.8	624.2	608.7
60°	23614.6	8587.4	1930.7	916.9	761.9	794.8	734.6	657.1	622.3	610.6	597.1
62.5°	21674.2	7695.8	1769.8	891.7	738.5	725.0	740.6	641.6	606.7	595.0	591.3
65°	18764.5	6379.6	1705.9	885.9	719.2	684.2	688.1	624.2	589.3	579.5	575.8
67.5°	15478.9	5148.6	1649.6	905.3	694.0	655.3	635.8	601.0	571.9	562.2	554.4
70°	12206.7	4282.1	1624.5	893.6	662.9	626.1	604.7	575.8	550.5	540.8	535.0
72.5°	9830.2	3617.2	1610.9	882.0	622.3	587.3	568.0	542.8	515.6	511.8	505.9
75°	8318.0	2843.8	1475.1	845.1	575.8	540.8	527.2	503.9	476.9	476.9	473.0
77.5°	6416.5	2056.7	1227.1	748.3	527.2	488.5	476.9	459.5	428.4	434.2	432.3
80°	4739.5	1341.3	959.6	620.3	467.2	430.4	424.4	407.1	374.1	381.9	381.9
82.5°	3247.0	880.1	690.1	507.9	399.3	364.4	364.4	346.9	310.2	314.0	325.6
85°	1630.2	604.7	515.6	393.5	310.2	292.7	292.7	279.2	242.4	244.2	259.8
87.5°	496.3	364.4	341.1	281.1	222.9	219.0	209.3	199.7	176.3	174.5	184.2
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°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	10275.9	10165.4	10031.7	9737.1	9638.2	9632.3	9721.5	9628.5	9806.8	9731.2	9814.6
5°	8287.0	8178.4	8029.2	7653.2	7424.4	7269.4	7195.7	6978.6	7135.5	7021.2	7116.3
7.5°	6094.6	6119.9	6021.0	5799.9	5301.7	5051.7	4904.3	4772.5	4886.9	4875.3	5057.5
10°	4284.0	4351.8	4282.1	4059.3	3656.0	3518.3	3545.5	3597.8	3747.1	3824.7	4105.8
12.5°	3084.2	3080.3	3035.7	2835.9	2570.4	2586.0	2696.4	2787.5	2925.2	3006.5	3293.5
15°	2303.0	2268.0	2248.6	2085.9	1934.6	1967.6	2021.8	2031.5	2118.7	2167.3	2399.8
17.5°	1740.7	1758.3	1779.5	1663.2	1548.9	1527.6	1484.9	1432.5	1457.7	1467.4	1583.7
20°	1382.1	1451.9	1504.3	1422.8	1306.6	1244.5	1190.3	1155.3	1155.3	1153.5	1186.3
22.5°	1207.7	1258.0	1314.3	1258.0	1153.5	1099.2	1068.2	1041.0	1037.2	1037.2	1068.2
25°	1112.7	1149.6	1203.8	1165.0	1087.5	1046.7	1017.7	982.8	969.2	965.4	986.7
27.5°	1066.2	1081.6	1108.8	1074.0	1008.0	988.7	980.9	949.9	932.4	922.6	944.1
30°	986.7	982.8	984.7	949.9	897.5	895.6	909.2	915.0	909.2	907.2	940.2
32.5°	913.0	905.3	903.3	872.3	823.8	812.2	823.8	835.6	849.1	868.4	907.2
35°	820.1	839.3	851.1	823.8	765.7	730.9	717.2	695.8	684.2	684.2	728.9
37.5°	746.3	790.9	808.4	783.1	719.2	670.8	647.5	643.5	645.5	653.2	695.8
40°	721.1	754.0	769.6	744.3	680.3	635.8	622.3	618.4	622.3	633.8	676.6
42.5°	705.6	728.9	726.9	695.8	643.5	612.6	604.7	601.0	604.7	616.4	662.9
45°	692.1	707.5	692.1	655.3	606.7	591.3	593.2	591.3	595.0	606.7	651.4
47.5°	680.3	686.2	666.8	630.0	579.5	575.8	583.4	589.3	593.2	602.9	649.4
50°	662.9	662.9	645.5	606.7	556.3	558.2	568.0	581.6	583.4	595.0	632.0
52.5°	641.6	639.8	628.0	591.3	536.9	542.8	542.8	558.2	562.2	575.8	614.5
55°	624.2	620.3	614.5	579.5	519.5	529.2	523.4	529.2	539.0	552.5	595.0
57.5°	608.7	601.0	601.0	570.0	505.9	509.8	496.3	503.9	515.6	527.2	571.9
60°	593.2	585.4	589.3	556.3	484.6	480.8	474.9	490.5	494.2	507.9	552.5
62.5°	575.8	570.0	571.9	540.8	469.2	459.5	459.5	473.0	474.9	494.2	536.9
65°	562.2	554.4	552.5	525.2	451.7	440.0	445.9	451.7	455.5	474.9	515.6
67.5°	548.5	533.1	533.1	511.8	432.3	420.6	432.3	430.4	436.1	453.6	486.5
70°	531.2	509.8	511.8	502.1	413.0	399.3	409.0	407.1	411.0	422.7	455.5
72.5°	503.9	486.5	490.5	486.5	393.5	374.1	377.9	377.9	377.9	387.7	422.7
75°	469.2	455.5	467.2	476.9	370.2	343.2	346.9	346.9	341.1	346.9	389.7
77.5°	426.4	418.7	457.4	443.9	343.2	310.2	310.2	306.3	294.6	302.4	348.9
80°	380.0	374.1	422.7	372.2	312.2	269.4	265.5	255.8	244.2	250.1	296.6
82.5°	331.5	325.6	354.7	284.9	269.4	222.9	213.3	195.8	184.2	190.0	232.7
85°	271.4	271.4	273.4	215.1	205.5	170.6	159.0	135.7	122.1	126.0	166.7
87.5°	193.9	199.7	184.2	147.3	122.1	95.0	87.2	73.8	62.1	71.8	87.2
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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CATALOG NUMBER: GLEON-AF-07-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	10241.0	10454.3	10696.6	11006.8	11272.3	11708.5	12127.2	12379.3
5°	7657.1	8011.8	8453.8	9021.8	9550.9	10345.7	11134.8	11640.6
7.5°	5480.1	5860.1	6337.0	7046.5	7794.7	8808.5	9851.4	10456.2
10°	4534.1	4923.8	5325.1	5803.8	6416.5	7519.4	8752.2	9434.5
12.5°	3751.1	4167.7	4600.0	5104.0	5672.0	6656.8	8077.6	8862.8
15°	2871.0	3336.1	3846.0	4483.7	5195.2	6333.1	7911.0	8764.0
17.5°	1967.6	2487.0	3113.3	3900.3	4770.5	6228.4	8209.5	9192.4
20°	1355.1	1733.0	2401.8	3324.4	4371.3	6214.8	8783.3	10014.2
22.5°	1134.0	1302.6	1791.2	2795.3	4070.8	6381.5	9673.0	11167.6
25°	1048.7	1149.6	1430.6	2336.0	3851.8	6765.3	10898.1	12660.4
27.5°	998.3	1089.5	1298.8	2035.4	3679.3	7211.1	12090.4	14106.4
30°	1017.7	1110.8	1261.9	1882.3	3444.7	7583.4	13148.9	15234.5
32.5°	916.9	957.7	1081.6	1746.6	3276.1	7895.5	14075.4	16169.0
35°	781.3	852.9	965.4	1682.6	3279.9	8104.8	15085.3	17363.1
37.5°	744.3	816.1	897.5	1659.3	3324.4	8327.7	16244.5	18762.7
40°	721.1	787.0	856.9	1645.8	3367.1	8531.4	17380.4	20146.7
42.5°	705.6	765.7	852.9	1599.3	3388.4	8713.5	18314.9	21323.3
45°	703.6	765.7	868.4	1552.7	3421.5	8909.3	19098.0	22193.7
47.5°	705.6	790.9	839.3	1496.5	3421.5	9236.9	20016.8	22971.1
50°	697.9	833.5	808.4	1417.0	3342.0	9857.2	21276.8	24012.1
52.5°	694.0	827.8	748.3	1294.8	3204.3	10842.0	22891.6	25446.6
55°	684.2	798.7	705.6	1112.7	3043.5	11915.8	24620.7	27142.7
57.5°	674.5	707.5	682.4	953.7	2795.3	12671.9	25811.0	28466.7
60°	756.1	618.4	662.9	876.1	2463.8	12879.3	25764.5	28994.1
62.5°	699.8	579.5	637.7	858.8	2231.2	12297.7	24574.3	28709.0
65°	548.5	554.4	612.6	909.2	2169.1	10756.7	22465.2	27392.7
67.5°	502.1	529.2	587.3	973.1	2174.9	8612.7	19313.2	24525.7
70°	473.0	502.1	558.2	1006.1	2190.4	6420.2	15269.5	19976.1
72.5°	440.0	465.2	525.2	1011.9	2089.6	4664.0	11768.5	14687.9
75°	401.3	424.4	478.7	882.0	1731.0	3235.3	9002.4	10049.1
77.5°	356.6	374.1	420.6	680.3	1285.3	2070.4	6757.6	7341.0
80°	304.3	314.0	352.9	498.2	880.1	1294.8	5346.4	5891.1
82.5°	244.2	248.1	273.4	374.1	571.9	831.7	3580.4	4086.3
85°	172.6	172.6	188.0	271.4	389.7	527.2	1944.3	2155.7
87.5°	81.4	83.4	83.4	149.3	203.6	267.5	447.7	275.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)