

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: P269496

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269496
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-SLR-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 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

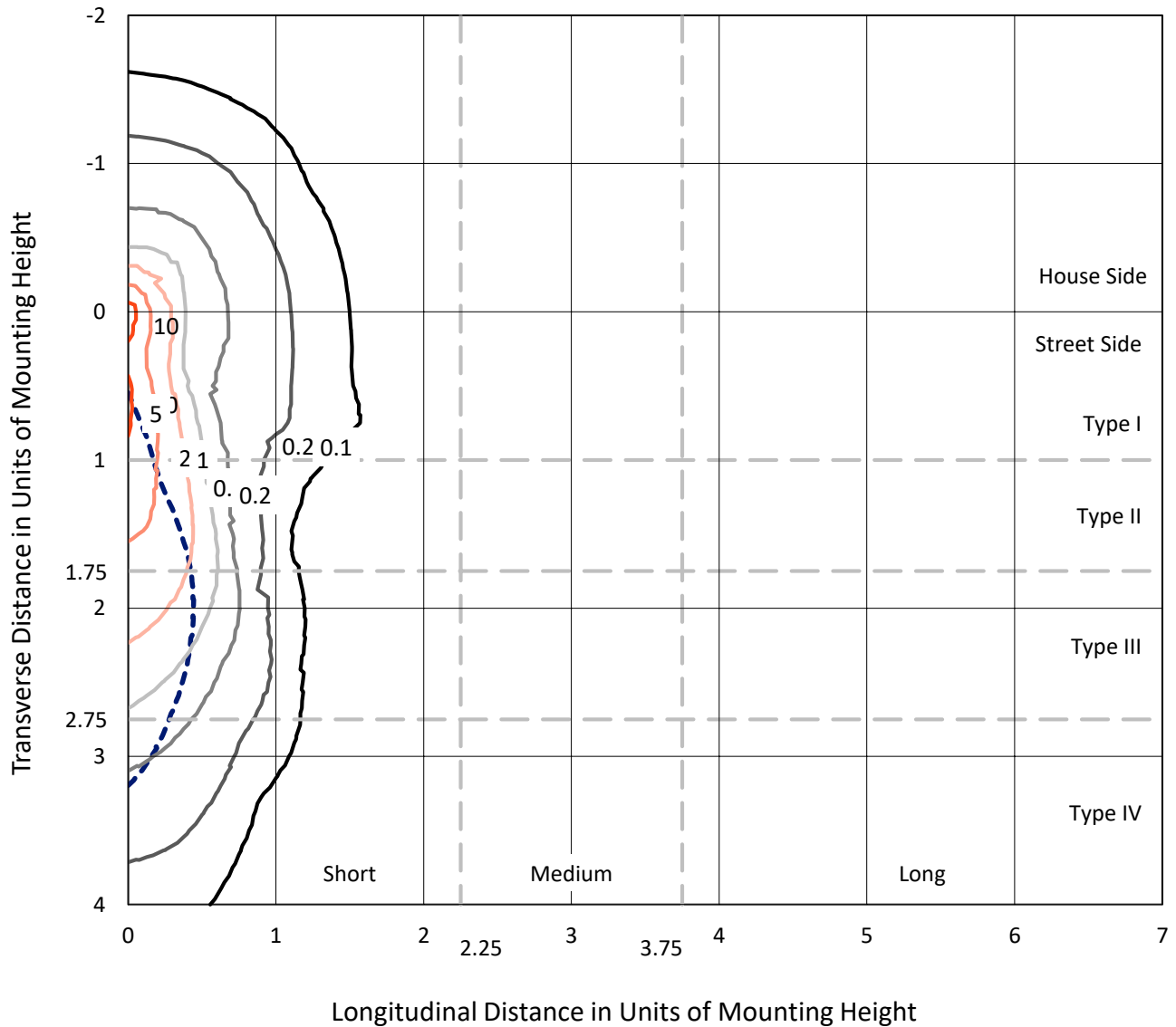


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

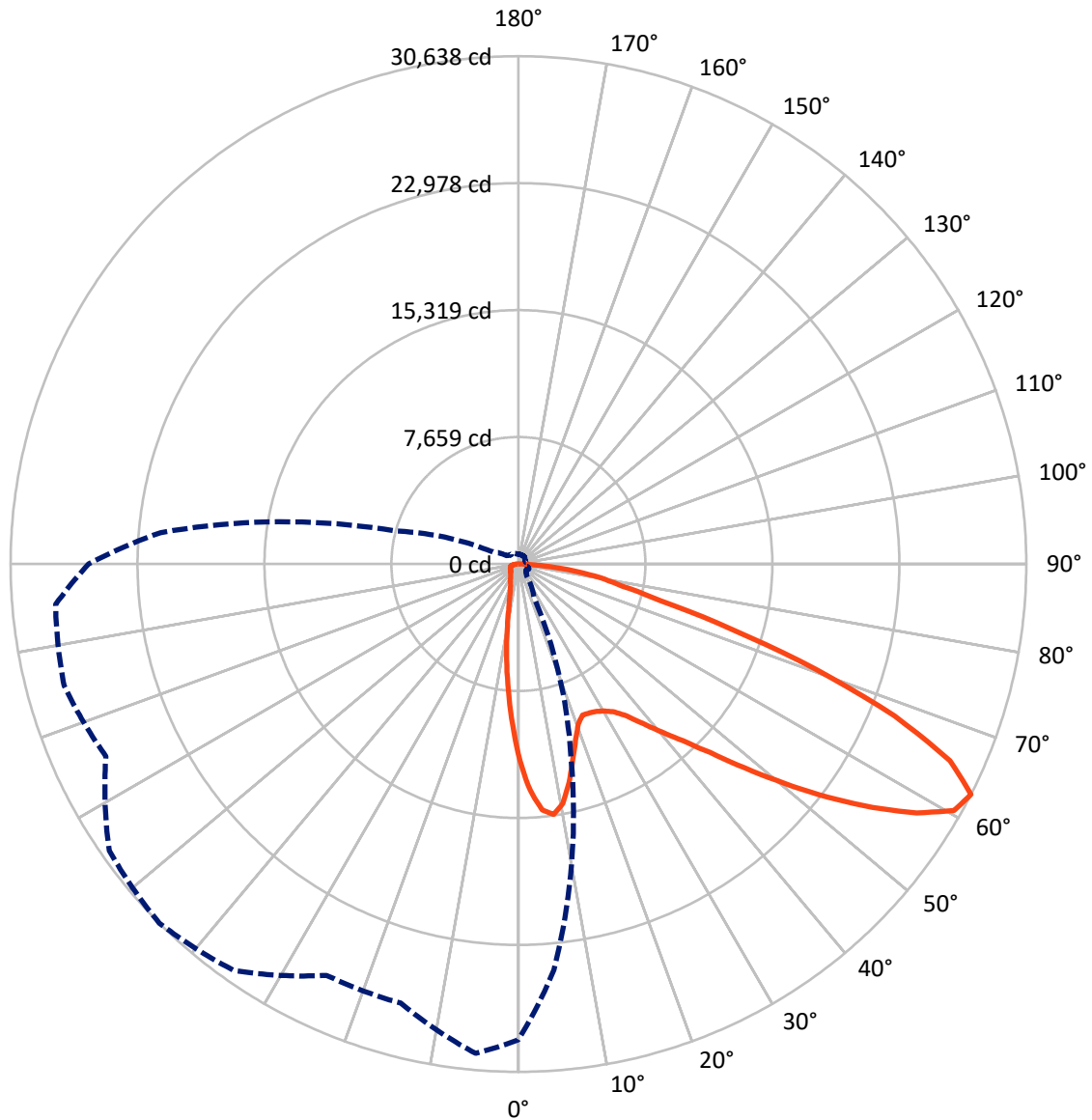


Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - Non-Cutoff

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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	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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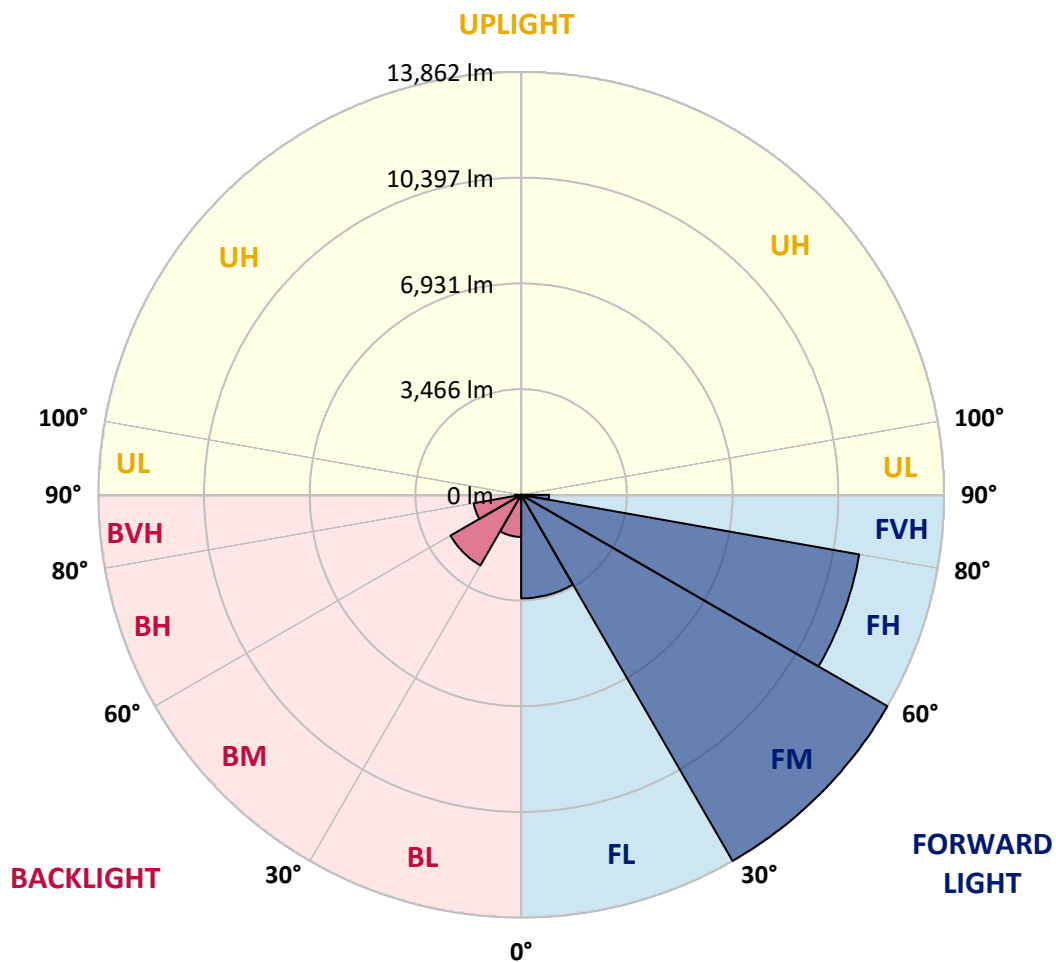
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	12127.2	11708.5	11272.3	11006.8	10696.6	10454.3	10241.0	9814.6	9731.2	9806.8
5°	11640.6	11134.8	10345.7	9550.9	9021.8	8453.8	8011.8	7657.1	7116.3	7021.2	7135.5
7.5°	10456.2	9851.4	8808.5	7794.7	7046.5	6337.0	5860.1	5480.1	5057.5	4875.3	4886.9
10°	9434.5	8752.2	7519.4	6416.5	5803.8	5325.1	4923.8	4534.1	4105.8	3824.7	3747.1
12.5°	8862.8	8077.6	6656.8	5672.0	5104.0	4600.0	4167.7	3751.1	3293.5	3006.5	2925.2
15°	8764.0	7911.0	6333.1	5195.2	4483.7	3846.0	3336.1	2871.0	2399.8	2167.3	2118.7
17.5°	9192.4	8209.5	6228.4	4770.5	3900.3	3113.3	2487.0	1967.6	1583.7	1467.4	1457.7
20°	10014.2	8783.3	6214.8	4371.3	3324.4	2401.8	1733.0	1355.1	1186.3	1153.5	1155.3
22.5°	11167.6	9673.0	6381.5	4070.8	2795.3	1791.2	1302.6	1134.0	1068.2	1037.2	1037.2
25°	12660.4	10898.1	6765.3	3851.8	2336.0	1430.6	1149.6	1048.7	986.7	965.4	969.2
27.5°	14106.4	12090.4	7211.1	3679.3	2035.4	1298.8	1089.5	998.3	944.1	922.6	932.4
30°	15234.5	13148.9	7583.4	3444.7	1882.3	1261.9	1110.8	1017.7	940.2	907.2	909.2
32.5°	16169.0	14075.4	7895.5	3276.1	1746.6	1081.6	957.7	916.9	907.2	868.4	849.1
35°	17363.1	15085.3	8104.8	3279.9	1682.6	965.4	852.9	781.3	728.9	684.2	684.2
37.5°	18762.7	16244.5	8327.7	3324.4	1659.3	897.5	816.1	744.3	695.8	653.2	645.5
40°	20146.7	17380.4	8531.4	3367.1	1645.8	856.9	787.0	721.1	676.6	633.8	622.3
42.5°	21323.3	18314.9	8713.5	3388.4	1599.3	852.9	765.7	705.6	662.9	616.4	604.7
45°	22193.7	19098.0	8909.3	3421.5	1552.7	868.4	765.7	703.6	651.4	606.7	595.0
47.5°	22971.1	20016.8	9236.9	3421.5	1496.5	839.3	790.9	705.6	649.4	602.9	593.2
50°	24012.1	21276.8	9857.2	3342.0	1417.0	808.4	833.5	697.9	632.0	595.0	583.4
52.5°	25446.6	22891.6	10842.0	3204.3	1294.8	748.3	827.8	694.0	614.5	575.8	562.2
55°	27142.7	24620.7	11915.8	3043.5	1112.7	705.6	798.7	684.2	595.0	552.5	539.0
57.5°	28466.7	25811.0	12671.9	2795.3	953.7	682.4	707.5	674.5	571.9	527.2	515.6
60°	28994.1	25764.5	12879.3	2463.8	876.1	662.9	618.4	756.1	552.5	507.9	494.2
62.5°	28709.0	24574.3	12297.7	2231.2	858.8	637.7	579.5	699.8	536.9	494.2	474.9
65°	27392.7	22465.2	10756.7	2169.1	909.2	612.6	554.4	548.5	515.6	474.9	455.5
67.5°	24525.7	19313.2	8612.7	2174.9	973.1	587.3	529.2	502.1	486.5	453.6	436.1
70°	19976.1	15269.5	6420.2	2190.4	1006.1	558.2	502.1	473.0	455.5	422.7	411.0
72.5°	14687.9	11768.5	4664.0	2089.6	1011.9	525.2	465.2	440.0	422.7	387.7	377.9
75°	10049.1	9002.4	3235.3	1731.0	882.0	478.7	424.4	401.3	389.7	346.9	341.1
77.5°	7341.0	6757.6	2070.4	1285.3	680.3	420.6	374.1	356.6	348.9	302.4	294.6
80°	5891.1	5346.4	1294.8	880.1	498.2	352.9	314.0	304.3	296.6	250.1	244.2
82.5°	4086.3	3580.4	831.7	571.9	374.1	273.4	248.1	244.2	232.7	190.0	184.2
85°	2155.7	1944.3	527.2	389.7	271.4	188.0	172.6	172.6	166.7	126.0	122.1
87.5°	275.3	447.7	267.5	203.6	149.3	83.4	83.4	81.4	87.2	71.8	62.1
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°	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0	11914.0
2.5°	9628.5	9721.5	9632.3	9638.2	9737.1	10031.7	10165.4	10275.9	10394.2	10471.7	10506.7
5°	6978.6	7195.7	7269.4	7424.4	7653.2	8029.2	8178.4	8287.0	8358.8	8401.4	8418.8
7.5°	4772.5	4904.3	5051.7	5301.7	5799.9	6021.0	6119.9	6094.6	6013.3	5984.1	5955.0
10°	3597.8	3545.5	3518.3	3656.0	4059.3	4282.1	4351.8	4284.0	4239.6	4249.2	4297.6
12.5°	2787.5	2696.4	2586.0	2570.4	2835.9	3035.7	3080.3	3084.2	3165.5	3237.3	3343.9
15°	2031.5	2021.8	1967.6	1934.6	2085.9	2248.6	2268.0	2303.0	2376.6	2428.9	2522.0
17.5°	1432.5	1484.9	1527.6	1548.9	1663.2	1779.5	1758.3	1740.7	1727.3	1727.3	1771.7
20°	1155.3	1190.3	1244.5	1306.6	1422.8	1504.3	1451.9	1382.1	1331.7	1316.2	1322.0
22.5°	1041.0	1068.2	1099.2	1153.5	1258.0	1314.3	1258.0	1207.7	1157.2	1139.8	1134.0
25°	982.8	1017.7	1046.7	1087.5	1165.0	1203.8	1149.6	1112.7	1081.6	1060.4	1044.9
27.5°	949.9	980.9	988.7	1008.0	1074.0	1108.8	1081.6	1066.2	1046.7	1027.4	1008.0
30°	915.0	909.2	895.6	897.5	949.9	984.7	982.8	986.7	984.7	979.0	975.1
32.5°	835.6	823.8	812.2	823.8	872.3	903.3	905.3	913.0	913.0	911.2	926.6
35°	695.8	717.2	730.9	765.7	823.8	851.1	839.3	820.1	785.1	763.7	761.9
37.5°	643.5	647.5	670.8	719.2	783.1	808.4	790.9	746.3	723.0	719.2	725.0
40°	618.4	622.3	635.8	680.3	744.3	769.6	754.0	721.1	699.8	697.9	707.5
42.5°	601.0	604.7	612.6	643.5	695.8	726.9	728.9	705.6	680.3	682.4	692.1
45°	591.3	593.2	591.3	606.7	655.3	692.1	707.5	692.1	670.8	674.5	686.2
47.5°	589.3	583.4	575.8	579.5	630.0	666.8	686.2	680.3	670.8	674.5	684.2
50°	581.6	568.0	558.2	556.3	606.7	645.5	662.9	662.9	666.8	674.5	684.2
52.5°	558.2	542.8	542.8	536.9	591.3	628.0	639.8	641.6	647.5	661.1	674.5
55°	529.2	523.4	529.2	519.5	579.5	614.5	620.3	624.2	628.0	639.8	659.0
57.5°	503.9	496.3	509.8	505.9	570.0	601.0	601.0	608.7	608.7	624.2	639.8
60°	490.5	474.9	480.8	484.6	556.3	589.3	585.4	593.2	597.1	610.6	622.3
62.5°	473.0	459.5	459.5	469.2	540.8	571.9	570.0	575.8	591.3	595.0	606.7
65°	451.7	445.9	440.0	451.7	525.2	552.5	554.4	562.2	575.8	579.5	589.3
67.5°	430.4	432.3	420.6	432.3	511.8	533.1	533.1	548.5	554.4	562.2	571.9
70°	407.1	409.0	399.3	413.0	502.1	511.8	509.8	531.2	535.0	540.8	550.5
72.5°	377.9	377.9	374.1	393.5	486.5	490.5	486.5	503.9	505.9	511.8	515.6
75°	346.9	346.9	343.2	370.2	476.9	467.2	455.5	469.2	473.0	476.9	476.9
77.5°	306.3	310.2	310.2	343.2	443.9	457.4	418.7	426.4	432.3	434.2	428.4
80°	255.8	265.5	269.4	312.2	372.2	422.7	374.1	380.0	381.9	381.9	374.1
82.5°	195.8	213.3	222.9	269.4	284.9	354.7	325.6	331.5	325.6	314.0	310.2
85°	135.7	159.0	170.6	205.5	215.1	273.4	271.4	271.4	259.8	244.2	242.4
87.5°	73.8	87.2	95.0	122.1	147.3	184.2	199.7	193.9	184.2	174.5	176.3
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°	10688.8	10952.5	11373.1	11694.9	12018.7	12330.8	12668.1	12925.8	13144.9	13230.1	13489.9
5°	8595.3	8924.8	9322.3	10039.5	10547.3	11107.5	11755.0	12611.8	12941.3	13397.0	14143.3
7.5°	6077.2	6375.7	7015.5	7595.0	8314.3	9107.0	9981.2	11163.7	11596.0	12326.8	13542.3
10°	4538.0	4885.1	5398.8	5887.2	6521.1	7331.3	8335.6	9657.6	10182.8	10975.8	12375.3
12.5°	3656.0	4065.0	4609.7	5069.1	5559.6	6131.4	7106.5	8556.4	9260.2	9954.2	11369.3
15°	2808.9	3237.3	3743.2	4326.6	4867.6	5484.1	6505.5	8091.3	8901.6	9624.6	10832.3
17.5°	1944.3	2310.7	2948.4	3557.1	4249.2	5038.1	6338.9	8190.1	9157.4	9990.9	10925.4
20°	1378.3	1587.7	2110.9	2816.6	3679.3	4669.7	6307.9	8709.6	9967.8	10919.4	11522.4
22.5°	1159.3	1236.7	1541.1	2188.5	3184.9	4394.6	6416.5	9438.5	11061.0	12276.4	12474.1
25°	1056.4	1102.9	1261.9	1717.5	2745.0	4194.8	6782.8	10524.1	12414.0	13633.3	13598.5
27.5°	1000.3	1048.7	1153.5	1450.0	2413.4	4070.8	7149.2	11811.3	13961.0	15106.6	14672.5
30°	982.8	1048.7	1159.3	1366.6	2177.0	3875.1	7449.6	12941.3	15151.3	16101.1	15161.0
32.5°	969.2	979.0	1029.4	1178.5	1952.0	3646.3	7653.2	13955.2	16316.3	17047.0	15864.5
35°	783.1	831.7	913.0	1056.4	1820.2	3508.7	7653.2	14829.4	17463.9	18002.8	16535.3
37.5°	754.0	796.7	868.4	990.7	1746.6	3440.8	7499.9	15672.6	18636.6	19086.4	17087.7
40°	738.5	773.5	841.4	940.2	1715.6	3363.3	7277.1	16417.1	19782.3	20171.9	17603.5
42.5°	726.9	758.0	821.9	909.2	1674.9	3277.9	7096.8	17014.1	20776.8	21098.5	18095.7
45°	721.1	754.0	823.8	924.6	1593.5	3165.5	7036.8	17659.6	21594.7	21872.0	18629.0
47.5°	721.1	759.8	833.5	957.7	1496.5	3049.2	7224.8	18510.7	22368.2	22503.9	19257.0
50°	715.3	758.0	860.7	924.6	1355.1	2902.0	7666.8	19582.6	23205.6	23221.1	20051.7
52.5°	703.6	754.0	926.6	905.3	1192.2	2708.1	8263.8	20959.0	24444.4	24537.5	21296.3
55°	690.1	748.3	909.2	860.7	1058.5	2477.3	8752.2	22631.9	26185.1	26443.0	23126.1
57.5°	672.7	740.6	880.1	798.7	971.2	2180.7	8928.8	23856.9	27400.6	28048.0	25188.7
60°	657.1	734.6	794.8	761.9	916.9	1930.7	8587.4	23614.6	27317.2	28713.0	27016.7
62.5°	641.6	740.6	725.0	738.5	891.7	1769.8	7695.8	21674.2	25935.1	28026.7	28371.8
65°	624.2	688.1	684.2	719.2	885.9	1705.9	6379.6	18764.5	23263.9	25857.5	28691.5
67.5°	601.0	635.8	655.3	694.0	905.3	1649.6	5148.6	15478.9	19551.6	22606.7	27024.5
70°	575.8	604.7	626.1	662.9	893.6	1624.5	4282.1	12206.7	15513.6	18528.1	23734.8
72.5°	542.8	568.0	587.3	622.3	882.0	1610.9	3617.2	9830.2	11582.4	13763.3	19297.7
75°	503.9	527.2	540.8	575.8	845.1	1475.1	2843.8	8318.0	8666.9	9574.1	15370.3
77.5°	459.5	476.9	488.5	527.2	748.3	1227.1	2056.7	6416.5	6730.5	6951.4	11784.1
80°	407.1	424.4	430.4	467.2	620.3	959.6	1341.3	4739.5	5034.2	5084.6	7695.8
82.5°	346.9	364.4	364.4	399.3	507.9	690.1	880.1	3247.0	3305.1	3475.7	5439.3
85°	279.2	292.7	292.7	310.2	393.5	515.6	604.7	1630.2	1612.8	1841.5	4712.5
87.5°	199.7	209.3	219.0	222.9	281.1	341.1	364.4	496.3	327.6	376.1	3026.0
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: P269496

CATALOG NUMBER: GLEON-AF-07-LED-E1-SLR-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°	13685.8	13796.2	13683.8	13602.3	13251.4	12962.7	12576.9	12379.3
5°	14711.3	14992.4	14897.3	14556.1	13823.4	12999.6	12063.2	11640.6
7.5°	14587.1	15240.5	15255.9	14618.2	13538.4	12324.9	11057.1	10456.2
10°	13621.8	14457.2	14695.7	14077.2	12931.7	11574.8	10120.8	9434.5
12.5°	12543.9	13362.0	13544.3	13330.9	12373.3	11010.6	9535.4	8862.8
15°	11661.9	12028.3	12245.4	12431.6	11894.5	10785.8	9502.5	8764.0
17.5°	11125.0	11084.2	11146.3	11470.1	11561.1	11043.6	10006.5	9192.4
20°	10931.1	10308.9	10293.4	10739.2	11404.2	11658.1	10991.2	10014.2
22.5°	11037.7	10029.8	9901.7	10430.9	11487.4	12543.9	12282.3	11167.6
25°	11406.0	10053.0	9950.3	10462.0	11789.9	13488.1	13676.1	12660.4
27.5°	11985.6	10200.3	10064.6	10589.9	12191.2	14280.9	15048.4	14106.4
30°	12536.1	10456.2	10287.6	10842.0	12557.5	14594.9	15889.8	15234.5
32.5°	13204.9	10935.0	10638.4	11305.3	13011.1	15094.9	16640.1	16169.0
35°	13860.2	11617.4	11249.0	12020.6	13517.1	15717.3	17496.7	17363.1
37.5°	14579.4	12509.1	12204.7	12945.2	14209.1	16304.6	18590.2	18762.7
40°	15347.1	13691.5	13330.9	14294.4	15283.0	17041.2	19731.9	20146.7
42.5°	16120.4	15003.9	14573.6	15550.6	16463.5	17768.1	20708.8	21323.3
45°	17006.4	16428.7	16225.1	17281.7	17597.5	18460.2	21430.0	22193.7
47.5°	18037.6	18045.4	18373.0	18795.5	18741.2	19243.4	22155.0	22971.1
50°	19241.4	20063.4	20786.4	21067.5	19919.9	20084.8	23161.1	24012.1
52.5°	20687.5	22476.9	23372.5	23188.2	21189.6	21112.1	24754.6	25446.6
55°	22496.2	25031.7	25921.5	25789.7	22649.3	22511.6	26739.6	27142.7
57.5°	24589.8	27507.2	28325.3	27732.0	24401.6	24047.0	28381.4	28466.7
60°	26429.4	29468.9	30186.1	29529.1	26169.7	25681.1	29406.8	28994.1
62.5°	27452.9	30133.9	30637.9	29930.3	27381.1	27421.9	29631.8	28709.0
65°	26995.4	28453.2	28616.0	28557.8	27069.0	28431.8	28823.3	27392.7
67.5°	24490.9	24204.0	24477.3	24855.4	24394.0	27102.0	26584.4	24525.7
70°	20078.8	18502.8	19047.7	19301.5	19510.8	23321.9	23073.9	19976.1
72.5°	15131.9	12962.7	13393.0	13340.6	14309.9	18706.5	17944.6	14687.9
75°	10721.8	8789.0	8843.4	8822.1	9985.2	14635.5	12993.8	10049.1
77.5°	7501.9	6367.9	6397.0	6517.3	6713.0	11037.7	9283.4	7341.0
80°	5158.2	4832.6	4993.6	5003.2	4652.4	7414.7	6858.4	5891.1
82.5°	3842.1	3359.4	3320.7	3376.9	3646.3	6007.3	5270.7	4086.3
85°	3146.1	1988.8	1599.3	2004.4	3231.5	5949.2	3501.0	2155.7
87.5°	1771.7	944.1	426.4	790.9	1289.1	3939.0	1011.9	275.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)