

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: P269412

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269412
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-06-LED-E1-SLL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 29818.4 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 382
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

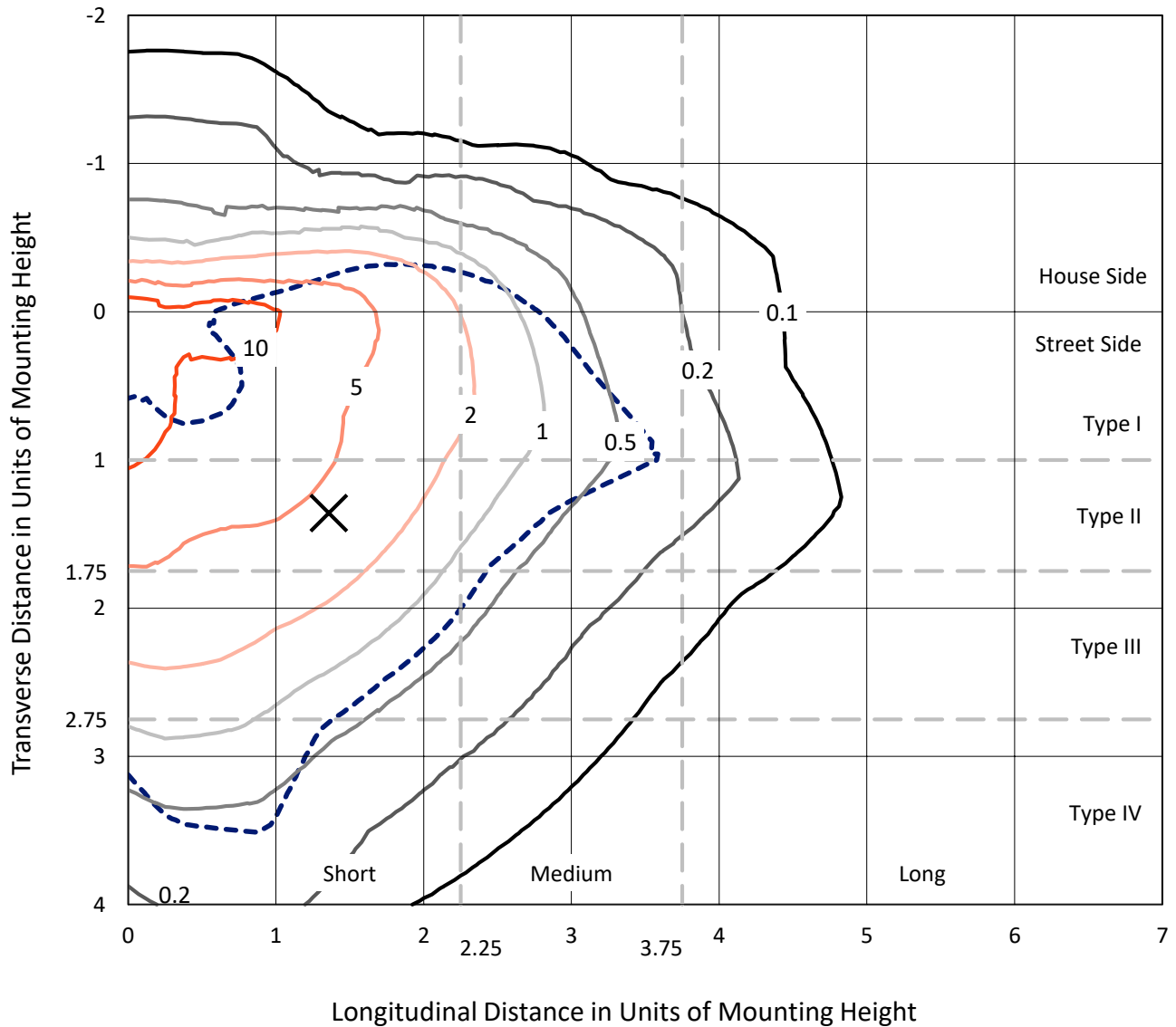


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

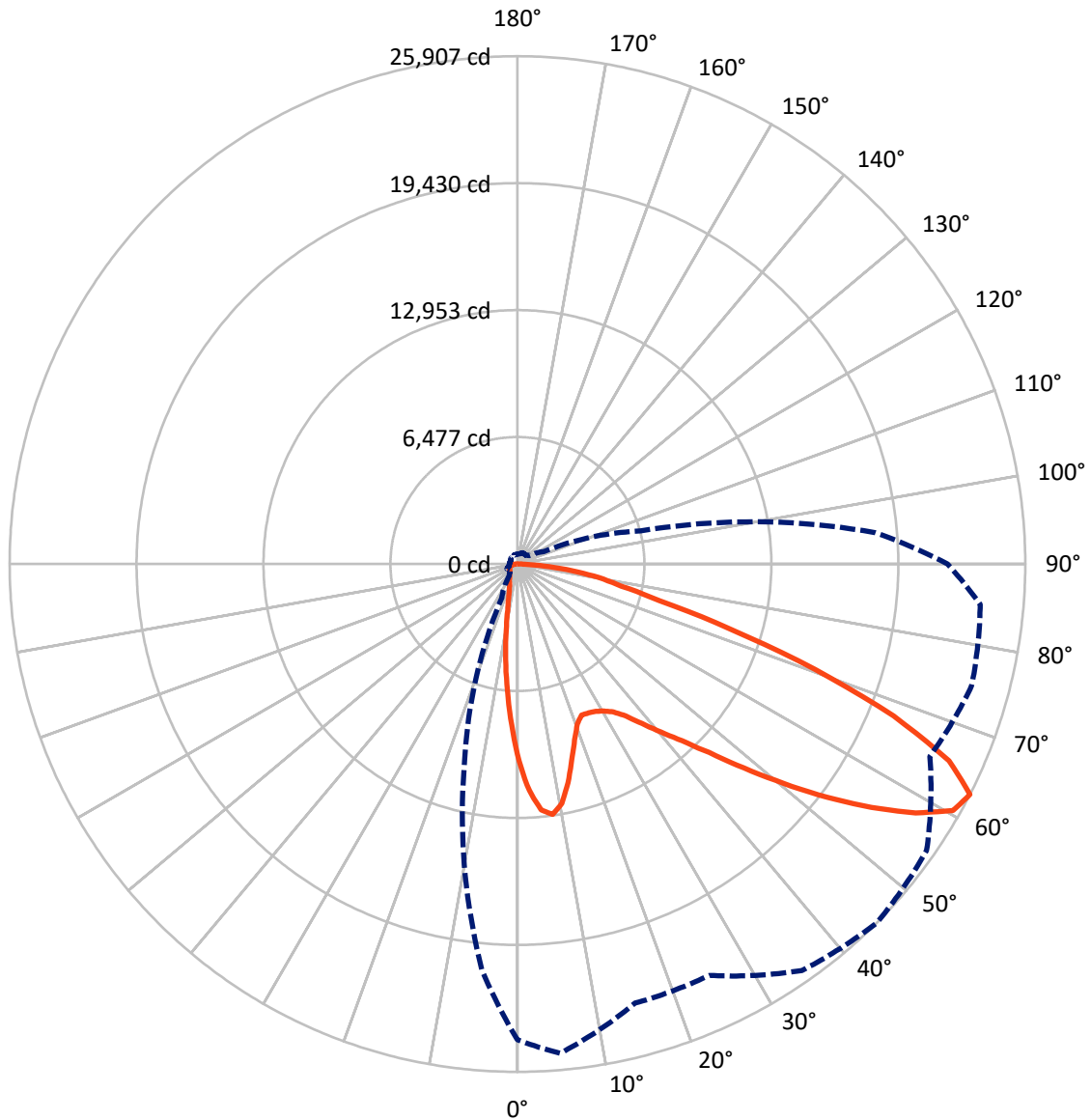


Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type IV - Short - Non-Cutoff

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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	4934.5	0.0	4934.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24883.9	0.0	24883.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	29818.4	0.0	29818.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.4	2.5
10°-20°	1344.8	4.5
20°-30°	1960.7	6.6
30°-40°	3019.7	10.1
40°-50°	4444.3	14.9
50°-60°	6518.8	21.9
60°-70°	7287.1	24.4
70°-80°	3567.7	12.0
80°-90°	941.9	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°	29818.4	100.0
0°-180°	29818.4	100.0



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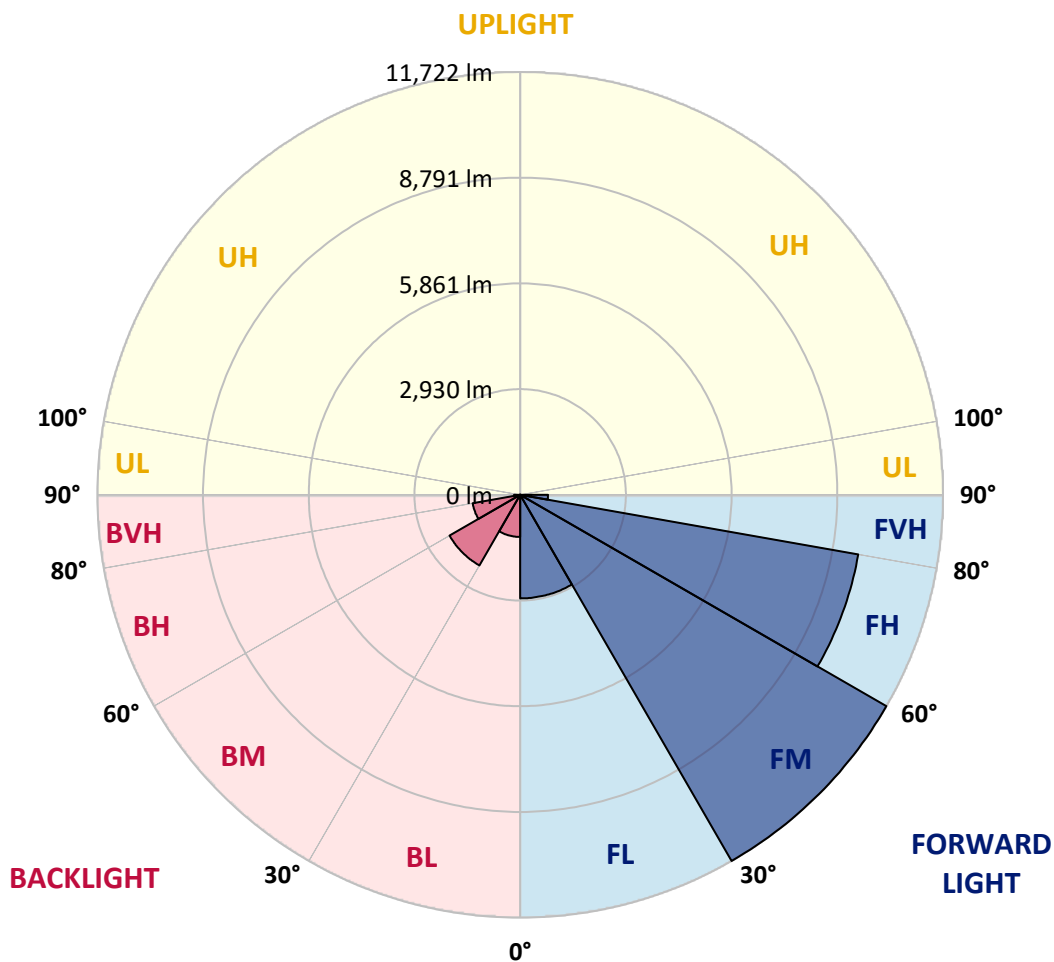
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.4	9.6			
FM (30°-60°)	11721.9	39.3			
FH (60°-80°)	9517.0	31.9			G4/12000
FVH (80°-90°)	773.6	2.6			G5
BL (0°-30°)	1167.4	3.9	B3/2500		
BM (30°-60°)	2261.0	7.6	B2/2500		
BH (60°-80°)	1337.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	168.4	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°	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2
2.5°	10467.7	10634.9	10961.1	11205.3	11502.0	11570.8	11665.8	11572.4	11406.9	11187.2	11115.1
5°	9843.2	10200.4	10992.2	11688.8	12308.4	12596.9	12677.2	12439.5	11959.2	11328.3	10943.1
7.5°	8841.6	9349.7	10421.7	11447.9	12360.9	12900.2	12887.1	12334.6	11451.1	10423.5	9805.4
10°	7977.8	8558.1	9787.5	10934.8	11903.6	12426.4	12224.9	11518.3	10464.4	9280.8	8610.6
12.5°	7494.2	8062.9	9310.5	10462.6	11272.6	11452.9	11298.7	10606.9	9613.7	8417.1	7830.3
15°	7410.7	8035.2	9120.2	10057.9	10512.0	10354.6	10171.0	9861.1	9159.6	8138.5	7527.0
17.5°	7772.9	8461.3	9338.3	9776.0	9698.9	9425.1	9372.6	9407.1	9238.3	8448.2	7743.4
20°	8468.0	9294.0	9857.9	9643.1	9081.0	8703.9	8717.1	9243.2	9743.1	9233.4	8428.5
22.5°	9443.3	10385.8	10606.9	9713.6	8820.3	8372.8	8481.0	9333.4	10548.0	10380.8	9353.1
25°	10705.3	11564.2	11405.2	9969.4	8846.5	8413.7	8500.8	9644.8	11498.7	11528.2	10497.1
27.5°	11928.1	12724.9	12075.6	10308.7	8954.8	8510.5	8625.3	10134.9	12406.9	12774.0	11805.2
30°	12882.1	13436.2	12341.3	10618.4	9167.8	8698.9	8841.6	10600.4	12819.8	13614.8	12811.6
32.5°	13672.3	14070.5	12764.0	11002.0	9559.6	8995.6	9246.4	11165.9	13414.8	14414.7	13796.8
35°	14681.9	14795.1	13290.2	11429.9	10164.4	9512.1	9823.4	11719.9	13981.9	15222.9	14767.1
37.5°	15865.3	15719.5	13786.9	12015.0	10946.2	10320.2	10577.5	12328.1	14449.1	16139.2	15758.8
40°	17035.7	16684.9	14409.8	12923.0	12087.1	11272.6	11577.4	12977.3	14885.2	17057.0	16727.6
42.5°	18030.7	17511.1	15024.5	13921.4	13149.3	12323.2	12687.1	13631.2	15301.5	17840.6	17568.5
45°	18766.8	18120.9	15609.7	14880.2	14613.1	13719.8	13891.8	14380.2	15752.3	18494.7	18260.1
47.5°	19424.1	18734.0	16271.9	15847.4	15893.3	15535.9	15258.9	15252.3	16283.3	19028.9	18914.3
50°	20304.2	19584.7	16983.3	16843.9	17814.4	17576.6	16965.3	16270.3	16955.5	19635.4	19622.3
52.5°	21517.2	20932.0	17852.0	17917.7	19607.6	19763.3	19006.0	17493.1	18007.8	20748.4	20669.8
55°	22951.4	22610.5	19035.5	19152.0	21807.3	21918.9	21166.5	19022.4	19555.2	22359.7	22141.8
57.5°	24071.1	23998.8	20333.8	20633.7	23449.7	23951.4	23259.6	20792.7	21299.3	23717.1	23169.4
60°	24516.9	24866.1	21715.5	22128.6	24969.3	25525.0	24918.4	22348.3	22844.9	24279.2	23098.9
62.5°	24275.8	25056.2	23187.5	23153.0	25308.6	25906.8	25480.8	23213.7	23990.8	23698.9	21930.3
65°	23162.9	24372.6	24041.5	22889.3	24148.1	24197.3	24059.6	22826.9	24261.2	21864.7	19671.5
67.5°	20738.6	22479.4	22917.0	20627.2	21017.3	20697.7	20466.5	20709.0	22851.4	19115.8	16532.5
70°	16891.5	19510.8	19720.8	16498.1	16321.0	16106.3	15645.8	16978.3	20069.8	15667.1	13118.2
72.5°	12419.8	15173.7	15817.8	12100.3	11280.6	11324.9	10961.1	12795.3	16317.8	11638.0	9794.0
75°	8497.3	10987.3	12375.6	8443.3	7459.9	7477.9	7431.9	9066.1	12996.9	8095.7	7328.6
77.5°	6207.5	7849.8	9333.4	5676.4	5510.8	5409.2	5384.6	6343.6	9964.4	5878.0	5691.1
80°	4981.5	5799.4	6269.8	3933.9	4230.7	4222.5	4086.4	4361.8	6507.4	4299.5	4256.9
82.5°	3455.3	4456.9	5079.7	3083.3	2855.4	2807.9	2840.7	3248.8	4599.5	2939.1	2794.7
85°	1822.8	2960.4	5030.6	2732.5	1694.9	1352.3	1681.7	2660.3	3984.8	1557.2	1363.7
87.5°	232.8	855.6	3330.7	1090.1	668.8	360.6	798.2	1498.3	2558.7	318.0	276.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2
2.5°	10929.9	10711.8	10426.6	10162.7	9889.0	9617.0	9261.3	9038.2	8884.2	8854.8	8789.1
5°	10664.4	9939.8	9392.4	8918.6	8489.3	7882.6	7546.8	7268.0	7118.9	7104.1	7068.0
7.5°	9439.8	8440.0	7700.8	7030.3	6422.3	5932.0	5391.2	5138.8	5035.4	5060.2	5084.6
10°	8166.3	7048.5	6199.4	5514.2	4978.0	4565.0	4130.6	3837.3	3634.1	3593.0	3584.9
12.5°	7235.3	6009.1	5184.7	4701.1	4286.4	3897.9	3437.4	3091.4	2827.5	2737.3	2676.7
15°	6841.9	5501.0	4637.2	4115.9	3658.5	3165.2	2737.3	2375.2	2132.5	2053.9	2009.6
17.5°	6925.5	5360.0	4260.1	3593.0	3007.9	2493.2	1953.9	1644.1	1498.3	1460.5	1460.5
20°	7364.8	5333.9	3948.7	3111.1	2381.6	1785.0	1342.4	1165.5	1117.9	1113.0	1126.0
22.5°	7981.0	5425.7	3716.0	2693.1	1850.6	1303.1	1045.7	980.2	958.9	963.8	978.6
25°	8899.0	5735.4	3547.1	2321.0	1452.3	1067.0	932.7	893.4	883.6	896.6	914.7
27.5°	9987.4	6045.2	3442.2	2040.8	1226.0	975.3	886.7	845.8	852.3	868.8	885.1
30°	10943.1	6299.3	3276.7	1840.7	1155.6	980.2	886.7	831.0	824.6	827.8	832.6
32.5°	11800.2	6471.4	3083.3	1650.6	996.6	870.4	827.8	819.6	783.5	770.3	772.1
35°	12539.5	6471.4	2966.9	1539.2	893.4	772.1	703.3	662.2	644.2	645.8	663.8
37.5°	13252.5	6341.9	2909.5	1476.9	837.6	734.4	673.6	637.6	613.1	608.2	611.3
40°	13882.0	6153.4	2843.9	1450.7	795.0	711.4	654.1	624.5	598.4	590.0	591.8
42.5°	14386.9	6000.9	2771.8	1416.3	768.8	695.0	640.9	614.7	585.2	577.0	575.4
45°	14932.7	5950.2	2676.7	1347.4	781.9	696.6	637.6	609.8	580.2	570.5	567.1
47.5°	15652.2	6109.2	2578.3	1265.4	809.7	704.8	642.6	609.8	578.6	570.5	567.1
50°	16558.7	6482.9	2453.8	1145.8	781.9	727.7	640.9	604.9	578.6	570.5	563.9
52.5°	17722.7	6987.7	2289.9	1008.1	765.4	783.5	637.6	594.9	570.5	558.9	547.4
55°	19137.1	7400.7	2094.8	895.0	727.7	768.8	632.8	583.5	557.3	540.9	531.1
57.5°	20173.1	7550.0	1844.0	821.2	675.3	744.2	626.2	568.7	540.9	527.8	514.6
60°	19968.2	7261.4	1632.6	775.2	644.2	672.0	621.3	555.7	526.1	516.3	504.8
62.5°	18327.4	6507.4	1496.5	753.9	624.5	613.1	626.2	542.5	513.0	503.2	499.9
65°	15867.0	5394.4	1442.5	749.0	608.2	578.6	581.9	527.8	498.3	490.1	486.8
67.5°	13088.7	4353.5	1394.9	765.4	586.9	554.1	537.6	508.1	483.6	475.4	468.7
70°	10321.7	3620.9	1373.6	755.7	560.6	529.5	511.5	486.8	465.5	457.3	452.3
72.5°	8312.1	3058.6	1362.1	745.9	526.1	496.7	480.2	458.9	435.9	432.8	427.9
75°	7033.5	2404.7	1247.3	714.7	486.8	457.3	445.9	426.2	403.2	403.2	399.9
77.5°	5425.7	1739.2	1037.6	632.8	445.9	413.1	403.2	388.4	362.2	367.1	365.5
80°	4007.8	1134.3	811.3	524.5	395.1	364.0	359.0	344.2	316.4	322.9	322.9
82.5°	2745.6	744.2	583.5	429.5	337.7	308.2	308.2	293.3	262.2	265.5	275.4
85°	1378.4	511.5	435.9	332.7	262.2	247.6	247.6	236.1	205.0	206.5	219.6
87.5°	419.6	308.2	288.4	237.7	188.6	185.2	177.1	168.8	149.2	147.5	155.8
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°	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2
2.5°	8689.1	8595.7	8482.6	8233.4	8150.0	8144.9	8220.4	8141.7	8292.6	8228.6	8299.0
5°	7007.4	6915.6	6789.4	6471.4	6278.0	6146.8	6084.6	5901.0	6033.7	5937.0	6017.3
7.5°	5153.4	5174.9	5091.2	4904.3	4483.1	4271.6	4147.0	4035.5	4132.4	4122.5	4276.7
10°	3622.5	3679.8	3620.9	3432.5	3091.4	2975.0	2998.1	3042.3	3168.5	3234.1	3471.7
12.5°	2607.9	2604.6	2566.9	2398.0	2173.4	2186.7	2280.1	2357.2	2473.6	2542.4	2784.9
15°	1947.3	1917.8	1901.4	1763.7	1635.9	1663.8	1709.7	1717.7	1791.6	1832.6	2029.4
17.5°	1472.0	1486.8	1504.8	1406.3	1309.6	1291.7	1255.7	1211.4	1232.7	1240.9	1339.3
20°	1168.8	1227.8	1272.0	1203.1	1104.7	1052.4	1006.5	976.9	976.9	975.3	1003.1
22.5°	1021.3	1063.9	1111.4	1063.9	975.3	929.3	903.2	880.2	876.9	876.9	903.2
25°	940.9	972.1	1017.9	985.1	919.5	885.1	860.5	831.0	819.6	816.3	834.3
27.5°	901.4	914.7	937.7	908.0	852.3	836.0	829.5	803.2	788.4	780.3	798.2
30°	834.3	831.0	832.6	803.2	758.9	757.4	768.8	773.7	768.8	767.2	795.0
32.5°	772.1	765.4	763.9	737.6	696.6	686.8	696.6	706.4	717.9	734.4	767.2
35°	693.3	709.8	719.6	696.6	647.5	617.9	606.4	588.5	578.6	578.6	616.3
37.5°	631.1	668.8	683.5	662.2	608.2	567.1	547.4	544.3	545.8	552.4	588.5
40°	609.8	637.6	650.7	629.4	575.4	537.6	526.1	523.0	526.1	536.0	572.1
42.5°	596.7	616.3	614.7	588.5	544.3	518.0	511.5	508.1	511.5	521.2	560.6
45°	585.2	598.4	585.2	554.1	513.0	499.9	501.6	499.9	503.2	513.0	550.8
47.5°	575.4	580.2	563.9	532.8	490.1	486.8	493.3	498.3	501.6	509.8	549.1
50°	560.6	560.6	545.8	513.0	470.4	472.1	480.2	491.7	493.3	503.2	534.3
52.5°	542.5	540.9	531.1	499.9	454.1	458.9	458.9	472.1	475.4	486.8	519.6
55°	527.8	524.5	519.6	490.1	439.4	447.4	442.5	447.4	455.7	467.2	503.2
57.5°	514.6	508.1	508.1	481.9	427.9	431.0	419.6	426.2	435.9	445.9	483.6
60°	501.6	495.1	498.3	470.4	409.7	406.6	401.6	414.7	418.0	429.5	467.2
62.5°	486.8	481.9	483.6	457.3	396.7	388.4	388.4	399.9	401.6	418.0	454.1
65°	475.4	468.7	467.2	444.2	381.9	372.1	377.0	381.9	385.3	401.6	435.9
67.5°	463.9	450.8	450.8	432.8	365.5	355.6	365.5	364.0	368.8	383.5	411.5
70°	449.2	431.0	432.8	424.5	349.1	337.7	345.8	344.2	347.6	357.3	385.3
72.5°	426.2	411.5	414.7	411.5	332.7	316.4	319.6	319.6	319.6	327.8	357.3
75°	396.7	385.3	395.1	403.2	313.1	290.2	293.3	293.3	288.4	293.3	329.5
77.5°	360.6	354.0	386.8	375.3	290.2	262.2	262.2	259.0	249.2	255.7	295.1
80°	321.2	316.4	357.3	314.8	263.9	227.8	224.5	216.4	206.5	211.5	250.7
82.5°	280.4	275.4	299.9	240.9	227.8	188.6	180.3	165.6	155.8	160.6	196.6
85°	229.4	229.4	231.1	181.9	173.7	144.3	134.3	114.8	103.2	106.5	140.9
87.5°	163.9	168.8	155.8	124.5	103.2	80.3	73.8	62.3	52.5	60.6	73.8
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: P269412

CATALOG NUMBER: GLEON-AF-06-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2	10074.2
2.5°	8659.8	8840.0	9044.9	9307.1	9531.6	9900.5	10254.5	10467.7
5°	6474.7	6774.7	7148.4	7628.6	8076.1	8748.1	9415.3	9843.2
7.5°	4633.8	4955.2	5358.4	5958.4	6591.0	7448.3	8330.3	8841.6
10°	3834.0	4163.5	4502.8	4907.6	5425.7	6358.4	7400.7	7977.8
12.5°	3171.7	3524.2	3889.8	4315.8	4796.2	5628.9	6830.4	7494.2
15°	2427.6	2820.9	3252.0	3791.3	4392.9	5355.2	6689.4	7410.7
17.5°	1663.8	2103.0	2632.6	3297.9	4034.0	5266.7	6941.8	7772.9
20°	1145.8	1465.5	2030.9	2811.2	3696.3	5255.2	7427.0	8468.0
22.5°	958.9	1101.5	1514.6	2363.7	3442.2	5396.1	8179.3	9443.3
25°	886.7	972.1	1209.7	1975.3	3257.1	5720.6	9215.4	10705.3
27.5°	844.1	921.2	1098.3	1721.2	3111.1	6097.6	10223.4	11928.1
30°	860.5	939.3	1067.0	1591.6	2912.8	6412.5	11118.4	12882.1
32.5°	775.2	809.7	914.7	1476.9	2770.2	6676.4	11902.0	13672.3
35°	660.6	721.2	816.3	1422.7	2773.4	6853.3	12755.9	14681.9
37.5°	629.4	690.1	758.9	1403.2	2811.2	7041.9	13736.2	15865.3
40°	609.8	665.6	724.6	1391.7	2847.2	7213.8	14696.7	17035.7
42.5°	596.7	647.5	721.2	1352.3	2865.2	7368.0	15486.8	18030.7
45°	594.9	647.5	734.4	1313.0	2893.1	7533.5	16149.0	18766.8
47.5°	596.7	668.8	709.8	1265.4	2893.1	7810.7	16926.0	19424.1
50°	590.0	704.8	683.5	1198.2	2825.9	8335.2	17991.3	20304.2
52.5°	586.9	699.9	632.8	1094.9	2709.5	9167.8	19356.8	21517.2
55°	578.6	675.3	596.7	940.9	2573.5	10075.8	20818.8	22951.4
57.5°	570.5	598.4	577.0	806.5	2363.7	10715.2	21825.4	24071.1
60°	639.2	523.0	560.6	740.9	2083.3	10890.5	21786.1	24516.9
62.5°	591.8	490.1	539.3	726.1	1886.7	10398.8	20779.7	24275.8
65°	463.9	468.7	518.0	768.8	1834.2	9095.7	18996.2	23162.9
67.5°	424.5	447.4	496.7	822.8	1839.1	7282.7	16330.9	20738.6
70°	399.9	424.5	472.1	850.8	1852.2	5428.8	12911.7	16891.5
72.5°	372.1	393.4	444.2	855.6	1767.1	3943.7	9951.3	12419.8
75°	339.3	359.0	404.9	745.9	1463.8	2735.8	7612.2	8497.3
77.5°	301.7	316.4	355.6	575.4	1086.8	1750.6	5714.1	6207.5
80°	257.4	265.5	298.3	421.2	744.2	1094.9	4520.8	4981.5
82.5°	206.5	209.8	231.1	316.4	483.6	703.3	3027.5	3455.3
85°	145.9	145.9	159.0	229.4	329.5	445.9	1644.1	1822.8
87.5°	68.8	70.4	70.4	126.2	172.1	226.3	378.6	232.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)