

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: P269730

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269730
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-10-LED-E1-SLL-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA 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: 29638.8 lumens
Efficiency: N/A
Efficacy: 91.8 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

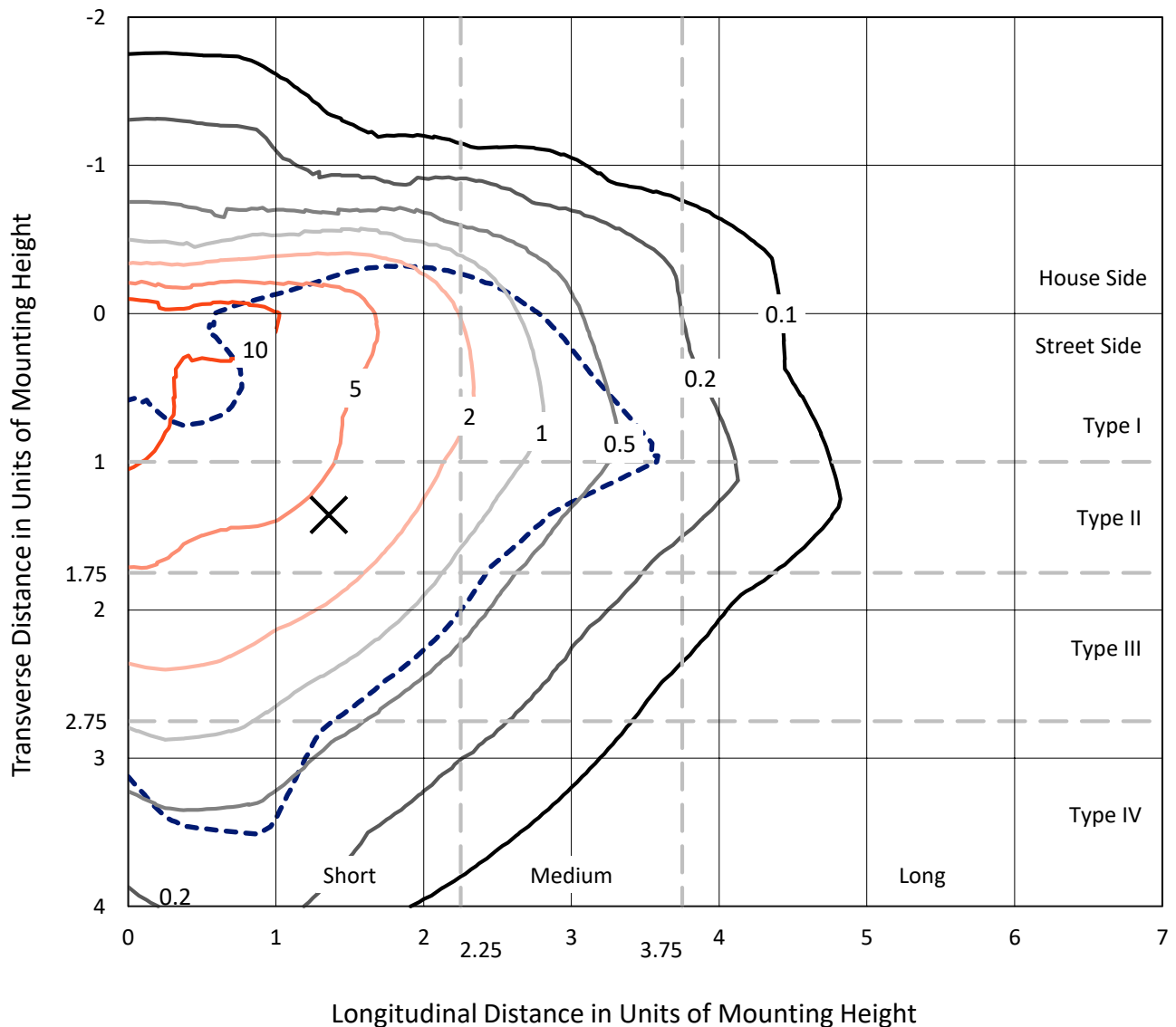
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

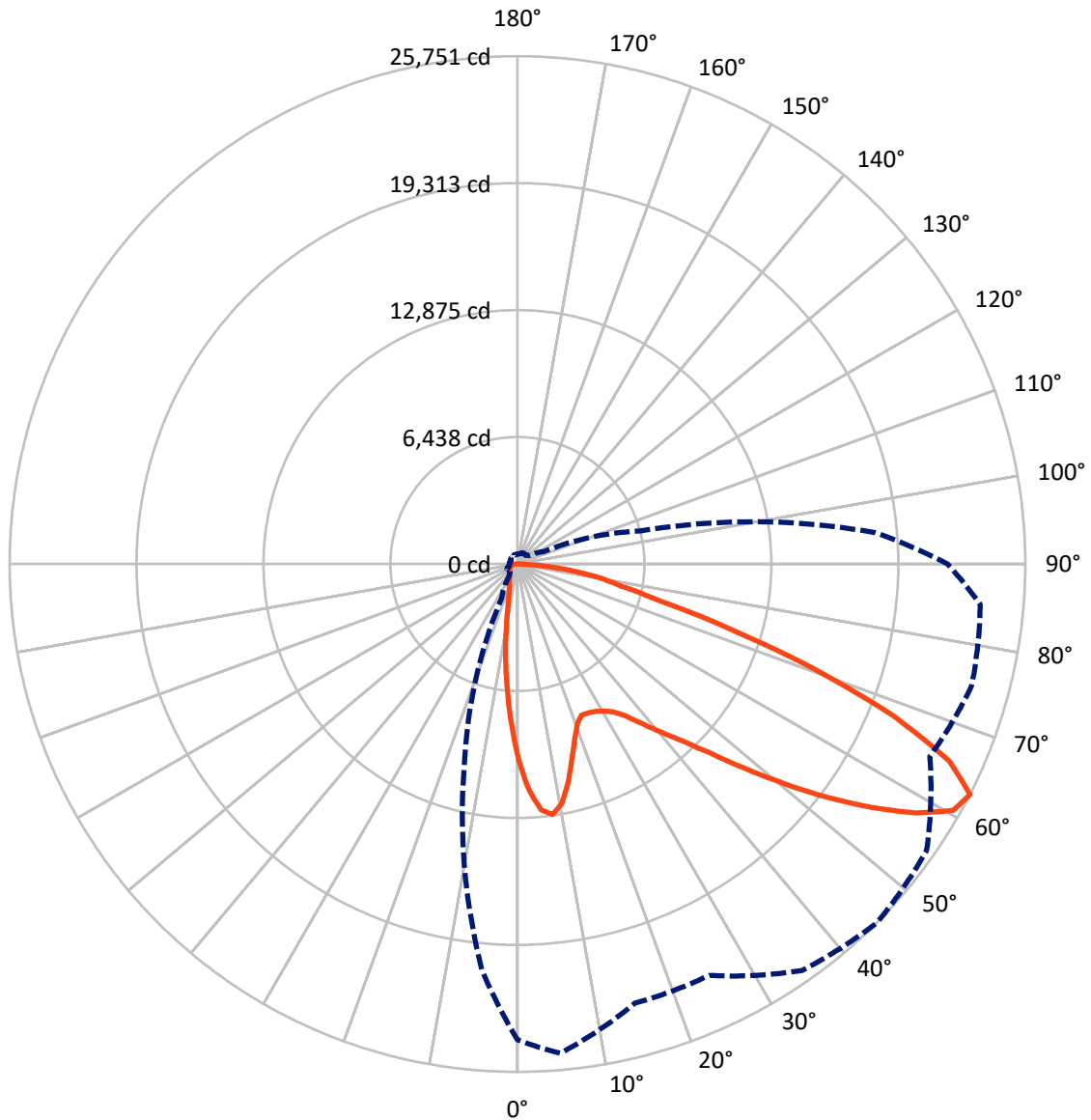
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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	4904.8	0.0	4904.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24734.0	0.0	24734.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	29638.8	0.0	29638.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.9	2.5
10°-20°	1336.7	4.5
20°-30°	1948.9	6.6
30°-40°	3001.6	10.1
40°-50°	4417.5	14.9
50°-60°	6479.5	21.9
60°-70°	7243.2	24.4
70°-80°	3546.2	12.0
80°-90°	936.3	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°	29638.8	100.0
0°-180°	29638.8	100.0



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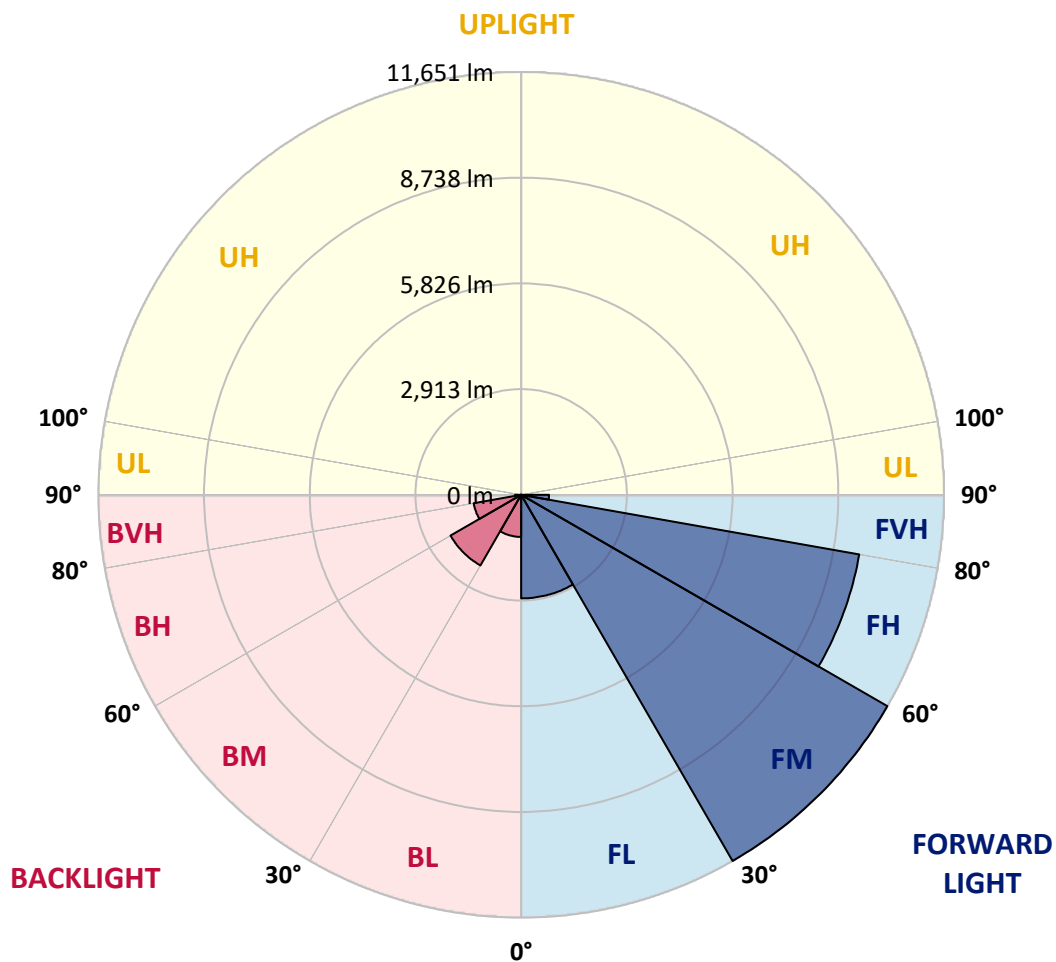
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2854.1	9.6			
FM	(30°-60°)	11651.3	39.3			
FH	(60°-80°)	9459.7	31.9			G4/12000
FVH	(80°-90°)	768.9	2.6			G5
BL	(0°-30°)	1160.4	3.9	B3/2500		
BM	(30°-60°)	2247.4	7.6	B2/2500		
BH	(60°-80°)	1329.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	167.4	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°	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5
2.5°	10404.6	10570.7	10895.1	11137.7	11432.6	11501.1	11595.6	11502.7	11338.1	11119.8	11048.2
5°	9783.8	10139.0	10925.9	11618.4	12234.2	12521.0	12600.9	12364.6	11887.2	11260.0	10877.0
7.5°	8788.4	9293.4	10359.0	11378.9	12286.4	12822.4	12809.4	12260.3	11382.2	10360.6	9746.4
10°	7929.7	8506.5	9728.5	10869.0	11831.8	12351.5	12151.3	11449.0	10401.4	9225.1	8558.6
12.5°	7449.0	8014.5	9254.2	10399.7	11204.6	11383.9	11230.6	10543.0	9555.7	8366.4	7783.0
15°	7366.0	7986.7	9065.3	9997.2	10448.5	10292.2	10109.7	9801.8	9104.4	8089.3	7481.7
17.5°	7726.1	8410.3	9282.0	9717.1	9640.5	9368.3	9316.2	9350.5	9182.7	8397.4	7696.8
20°	8416.8	9238.0	9798.5	9585.0	9026.2	8651.4	8664.5	9187.5	9684.4	9177.8	8377.8
22.5°	9386.3	10323.1	10543.0	9655.2	8767.2	8322.3	8430.0	9277.2	10484.5	10318.2	9296.6
25°	10640.9	11494.6	11336.6	9909.4	8793.2	8363.1	8449.5	9586.7	11429.5	11458.8	10434.0
27.5°	11856.3	12648.1	12003.0	10246.5	8900.8	8459.2	8573.2	10073.9	12332.0	12697.1	11734.1
30°	12804.5	13355.2	12266.9	10554.5	9112.5	8646.6	8788.4	10536.6	12742.6	13532.8	12734.6
32.5°	13589.9	13985.8	12687.2	10935.7	9502.0	8941.5	9190.7	11098.6	13334.0	14328.0	13713.6
35°	14593.4	14706.0	13210.2	11361.0	10103.1	9454.8	9764.2	11649.4	13897.8	15131.1	14678.2
37.5°	15769.8	15624.8	13704.0	11942.6	10880.4	10257.9	10513.8	12253.8	14362.1	16041.9	15663.9
40°	16933.1	16584.5	14323.0	12845.3	12014.3	11204.6	11507.6	12899.0	14795.5	16954.3	16626.9
42.5°	17922.2	17405.6	14934.1	13837.5	13070.1	12249.0	12610.6	13549.1	15209.4	17733.1	17462.6
45°	18653.7	18011.7	15515.6	14790.7	14525.1	13637.1	13808.1	14293.7	15657.4	18383.3	18150.3
47.5°	19307.0	18621.1	16174.0	15751.9	15797.6	15442.4	15167.1	15160.4	16185.3	18914.4	18800.3
50°	20182.0	19466.7	16880.9	16742.5	17707.0	17470.7	16863.2	16172.2	16853.3	19517.1	19504.2
52.5°	21387.6	20806.0	17744.5	17809.6	19489.4	19644.2	18891.5	17387.8	17899.3	20623.5	20545.2
55°	22813.3	22474.3	18920.9	19036.5	21676.0	21786.8	21038.9	18907.9	19437.3	22225.1	22008.4
57.5°	23926.0	23854.3	20211.2	20509.5	23308.5	23807.2	23119.5	20667.5	21171.0	23574.1	23029.8
60°	24369.2	24716.2	21584.7	21995.3	24818.9	25371.2	24768.3	22213.6	22707.4	24133.0	22959.9
62.5°	24129.7	24905.1	23047.9	23013.6	25156.1	25750.9	25327.3	23074.0	23846.1	23556.2	21798.2
65°	23023.4	24225.9	23896.7	22751.4	24002.6	24051.5	23914.6	22689.4	24115.0	21733.1	19553.0
67.5°	20613.6	22344.0	22779.0	20502.8	20890.7	20573.0	20343.2	20584.4	22713.9	19000.7	16433.0
70°	16789.9	19393.4	19601.9	16398.6	16222.9	16009.4	15551.5	16876.1	19948.9	15572.7	13039.2
72.5°	12345.0	15082.3	15722.6	12027.3	11212.7	11256.8	10895.1	12718.3	16219.4	11568.0	9734.9
75°	8446.3	10921.1	12301.1	8392.4	7414.9	7432.8	7387.2	9011.5	12918.5	8047.0	7284.5
77.5°	6170.1	7802.7	9277.2	5642.3	5477.7	5376.6	5352.2	6305.4	9904.4	5842.5	5656.8
80°	4951.4	5764.5	6232.0	3910.3	4205.1	4197.1	4061.7	4335.5	6468.2	4273.5	4231.2
82.5°	3434.5	4430.0	5049.2	3064.7	2838.3	2790.9	2823.6	3229.2	4571.7	2921.3	2777.9
85°	1811.7	2942.5	5000.2	2716.0	1684.7	1344.1	1671.7	2644.3	3960.7	1547.8	1355.5
87.5°	231.4	850.4	3310.8	1083.4	664.7	358.5	793.5	1489.2	2543.3	316.1	275.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5
2.5°	10864.0	10647.4	10363.8	10101.6	9829.4	9559.0	9205.4	8983.9	8830.7	8801.5	8736.2
5°	10600.1	9880.0	9335.7	8865.0	8438.0	7835.2	7501.2	7224.2	7075.9	7061.2	7025.5
7.5°	9383.1	8389.2	7654.4	6987.9	6383.5	5896.4	5358.7	5107.9	5005.1	5029.6	5054.0
10°	8117.1	7005.9	6162.0	5480.9	4948.1	4537.6	4105.9	3814.2	3612.2	3571.4	3563.2
12.5°	7191.7	5973.0	5153.4	4672.9	4260.7	3874.4	3416.7	3072.8	2810.4	2720.8	2660.6
15°	6800.6	5467.9	4609.3	4091.2	3636.6	3146.1	2720.8	2360.8	2119.7	2041.5	1997.6
17.5°	6883.7	5327.8	4234.5	3571.4	2989.6	2478.2	1942.0	1634.1	1489.2	1451.8	1451.8
20°	7320.4	5301.6	3925.0	3092.3	2367.4	1774.3	1334.4	1158.5	1111.2	1106.4	1119.3
22.5°	7933.0	5393.0	3693.7	2676.9	1839.5	1295.3	1039.5	974.3	953.1	958.0	972.7
25°	8845.4	5700.9	3525.8	2307.0	1443.5	1060.7	927.1	888.0	878.3	891.2	909.2
27.5°	9927.2	6008.9	3421.6	2028.5	1218.7	969.5	881.4	840.8	847.2	863.5	879.8
30°	10877.0	6261.4	3257.0	1829.7	1148.7	974.3	881.4	826.0	819.6	822.8	827.7
32.5°	11729.2	6432.5	3064.7	1640.7	990.7	865.2	822.8	814.7	778.8	765.7	767.4
35°	12464.1	6432.5	2949.0	1530.0	888.0	767.4	699.1	658.2	640.3	641.8	659.9
37.5°	13172.7	6303.6	2892.0	1468.0	832.5	730.0	669.6	633.8	609.3	604.5	607.8
40°	13798.3	6116.3	2826.7	1441.9	790.1	707.1	650.1	620.8	594.7	586.6	588.2
42.5°	14300.2	5964.7	2755.1	1407.7	764.2	690.8	637.1	610.9	581.7	573.5	572.0
45°	14842.8	5914.4	2660.6	1339.3	777.2	692.5	633.8	606.0	576.7	567.0	563.7
47.5°	15558.0	6072.4	2562.9	1257.7	804.9	700.6	638.6	606.0	575.2	567.0	563.7
50°	16459.0	6443.8	2439.1	1139.0	777.2	723.5	637.1	601.1	575.2	567.0	560.5
52.5°	17615.9	6945.6	2276.1	1002.0	760.9	778.8	633.8	591.4	567.0	555.6	544.2
55°	19021.9	7356.2	2082.2	889.6	723.5	764.2	629.0	580.0	554.0	537.6	527.8
57.5°	20051.5	7504.5	1832.9	816.3	671.3	739.8	622.3	565.4	537.6	524.6	511.6
60°	19848.0	7217.7	1622.8	770.7	640.3	668.0	617.5	552.3	523.1	513.2	501.9
62.5°	18217.0	6468.2	1487.6	749.5	620.8	609.3	622.3	539.3	510.0	500.1	496.9
65°	15771.5	5362.0	1433.8	744.5	604.5	575.2	578.4	524.6	495.2	487.2	483.8
67.5°	13009.9	4327.3	1386.5	760.9	583.3	550.8	534.4	505.0	480.7	472.5	466.0
70°	10259.6	3599.1	1365.3	751.2	557.2	526.2	508.4	483.8	462.6	454.5	449.7
72.5°	8262.2	3040.3	1353.9	741.3	523.1	493.7	477.4	456.2	433.4	430.1	425.3
75°	6991.2	2390.2	1239.9	710.4	483.8	454.5	443.1	423.6	400.9	400.9	397.5
77.5°	5393.0	1728.7	1031.3	629.0	443.1	410.5	400.9	386.1	360.1	364.9	363.4
80°	3983.7	1127.5	806.5	521.3	392.6	361.7	356.7	342.2	314.4	321.0	321.0
82.5°	2729.1	739.8	580.0	426.9	335.6	306.3	306.3	291.6	260.7	263.9	273.8
85°	1370.3	508.4	433.4	330.8	260.7	246.0	246.0	234.5	203.6	205.4	218.3
87.5°	417.2	306.3	286.7	236.3	187.3	184.2	176.0	167.9	148.3	146.7	154.8
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°	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5
2.5°	8636.8	8544.0	8431.5	8183.9	8100.7	8096.0	8170.9	8092.7	8242.6	8179.0	8249.0
5°	6965.2	6873.9	6748.4	6432.5	6240.2	6109.8	6047.8	5865.5	5997.4	5901.2	5981.2
7.5°	5122.4	5143.6	5060.5	4874.8	4456.1	4245.8	4122.1	4011.3	4107.4	4097.7	4250.8
10°	3600.8	3657.8	3599.1	3411.8	3072.8	2957.1	2979.9	3024.0	3149.4	3214.6	3450.7
12.5°	2592.1	2588.9	2551.5	2383.7	2160.5	2173.4	2266.3	2342.9	2458.7	2527.0	2768.1
15°	1935.6	1906.3	1889.9	1753.1	1626.0	1653.7	1699.4	1707.5	1780.8	1821.6	2017.1
17.5°	1463.1	1477.7	1495.7	1397.9	1301.9	1283.9	1248.0	1204.1	1225.2	1233.4	1331.1
20°	1161.7	1220.3	1264.4	1196.0	1098.2	1045.9	1000.4	971.1	971.1	969.5	997.1
22.5°	1015.1	1057.5	1104.6	1057.5	969.5	923.7	897.8	874.9	871.6	871.6	897.8
25°	935.2	966.1	1011.9	979.2	914.0	879.8	855.4	826.0	814.7	811.3	829.3
27.5°	896.1	909.2	931.9	902.6	847.2	830.9	824.5	798.4	783.7	775.5	793.5
30°	829.3	826.0	827.7	798.4	754.3	752.7	764.2	768.9	764.2	762.5	790.1
32.5°	767.4	760.9	759.2	733.1	692.5	682.7	692.5	702.2	713.7	730.0	762.5
35°	689.2	705.4	715.3	692.5	643.5	614.3	602.9	584.8	575.2	575.2	612.6
37.5°	627.2	664.7	679.4	658.2	604.5	563.7	544.2	540.9	542.5	549.0	584.8
40°	606.0	633.8	646.8	625.6	572.0	534.4	523.1	519.7	523.1	532.8	568.5
42.5°	593.1	612.6	610.9	584.8	540.9	514.9	508.4	505.0	508.4	518.1	557.2
45°	581.7	594.7	581.7	550.8	510.0	496.9	498.6	496.9	500.1	510.0	547.4
47.5°	572.0	576.7	560.5	529.6	487.2	483.8	490.5	495.2	498.6	506.7	545.8
50°	557.2	557.2	542.5	510.0	467.6	469.3	477.4	488.8	490.5	500.1	531.2
52.5°	539.3	537.6	527.8	496.9	451.3	456.2	456.2	469.3	472.5	483.8	516.4
55°	524.6	521.3	516.4	487.2	436.7	444.8	439.9	444.8	452.9	464.3	500.1
57.5°	511.6	505.0	505.0	478.9	425.3	428.5	417.2	423.6	433.4	443.1	480.7
60°	498.6	492.0	495.2	467.6	407.3	404.1	399.1	412.2	415.5	426.9	464.3
62.5°	483.8	478.9	480.7	454.5	394.3	386.1	386.1	397.5	399.1	415.5	451.3
65°	472.5	466.0	464.3	441.5	379.7	369.8	374.8	379.7	382.9	399.1	433.4
67.5°	461.1	448.1	448.1	430.1	363.4	353.6	363.4	361.7	366.6	381.2	409.0
70°	446.4	428.5	430.1	421.9	347.0	335.6	343.8	342.2	345.4	355.2	382.9
72.5°	423.6	409.0	412.2	409.0	330.8	314.4	317.7	317.7	317.7	325.8	355.2
75°	394.3	382.9	392.6	400.9	311.3	288.4	291.6	291.6	286.7	291.6	327.5
77.5°	358.5	352.0	384.6	373.1	288.4	260.7	260.7	257.5	247.7	254.2	293.2
80°	319.3	314.4	355.2	312.8	262.3	226.5	223.1	215.1	205.4	210.2	249.3
82.5°	278.7	273.8	298.1	239.5	226.5	187.3	179.2	164.6	154.8	159.7	195.6
85°	228.1	228.1	229.7	180.9	172.7	143.4	133.6	114.1	102.6	105.9	140.1
87.5°	163.0	167.9	154.8	123.8	102.6	79.8	73.3	62.0	52.1	60.2	73.3
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: P269730

CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7027-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5	10013.5
2.5°	8607.5	8786.7	8990.3	9251.0	9474.2	9840.8	10192.8	10404.6
5°	6435.6	6733.9	7105.4	7582.8	8027.4	8695.6	9358.6	9783.8
7.5°	4606.0	4925.3	5326.1	5922.4	6551.3	7403.6	8279.9	8788.4
10°	3810.9	4138.4	4475.6	4878.1	5393.0	6319.9	7356.2	7929.7
12.5°	3152.6	3503.0	3866.2	4289.9	4767.2	5595.0	6789.2	7449.0
15°	2412.9	2804.0	3232.6	3768.5	4366.5	5322.8	6649.2	7366.0
17.5°	1653.7	2090.4	2616.7	3278.2	4009.7	5235.0	6900.1	7726.1
20°	1139.0	1456.6	2018.8	2794.2	3674.1	5223.5	7382.4	8416.8
22.5°	953.1	1094.9	1505.5	2349.4	3421.6	5363.6	8130.1	9386.3
25°	881.4	966.1	1202.4	1963.2	3237.4	5686.2	9159.8	10640.9
27.5°	839.0	915.6	1091.6	1710.7	3092.3	6061.0	10161.8	11856.3
30°	855.4	933.6	1060.7	1582.1	2895.2	6373.7	11051.4	12804.5
32.5°	770.7	804.9	909.2	1468.0	2753.5	6636.0	11830.1	13589.9
35°	656.7	716.8	811.3	1414.2	2756.8	6812.0	12679.0	14593.4
37.5°	625.6	685.9	754.3	1394.7	2794.2	6999.5	13653.3	15769.8
40°	606.0	661.5	720.1	1383.3	2830.1	7170.5	14608.1	16933.1
42.5°	593.1	643.5	716.8	1344.1	2847.9	7323.6	15393.4	17922.2
45°	591.4	643.5	730.0	1305.1	2875.7	7488.2	16051.8	18653.7
47.5°	593.1	664.7	705.4	1257.7	2875.7	7763.5	16823.9	19307.0
50°	586.6	700.6	679.4	1191.1	2808.9	8284.9	17883.0	20182.0
52.5°	583.3	695.6	629.0	1088.3	2693.2	9112.5	19240.2	21387.6
55°	575.2	671.3	593.1	935.2	2558.0	10015.3	20693.5	22813.3
57.5°	567.0	594.7	573.5	801.6	2349.4	10650.7	21693.9	23926.0
60°	635.5	519.7	557.2	736.4	2070.9	10824.9	21654.8	24369.2
62.5°	588.2	487.2	536.0	721.8	1875.3	10336.2	20654.4	24129.7
65°	461.1	466.0	514.9	764.2	1823.2	9040.9	18881.7	23023.4
67.5°	421.9	444.8	493.7	817.8	1828.1	7238.9	16232.6	20613.6
70°	397.5	421.9	469.3	845.7	1841.0	5396.2	12833.8	16789.9
72.5°	369.8	391.0	441.5	850.4	1756.4	3920.1	9891.3	12345.0
75°	337.3	356.7	402.4	741.3	1455.0	2719.3	7566.5	8446.3
77.5°	299.8	314.4	353.6	572.0	1080.2	1740.0	5679.7	6170.1
80°	255.7	263.9	296.5	418.7	739.8	1088.3	4493.5	4951.4
82.5°	205.4	208.5	229.7	314.4	480.7	699.1	3009.3	3434.5
85°	144.9	144.9	158.0	228.1	327.5	443.1	1634.1	1811.7
87.5°	68.5	70.1	70.1	125.5	171.0	224.8	376.4	231.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)