

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: P269252

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269252
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-04-LED-E1-SLL-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 20111.5 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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

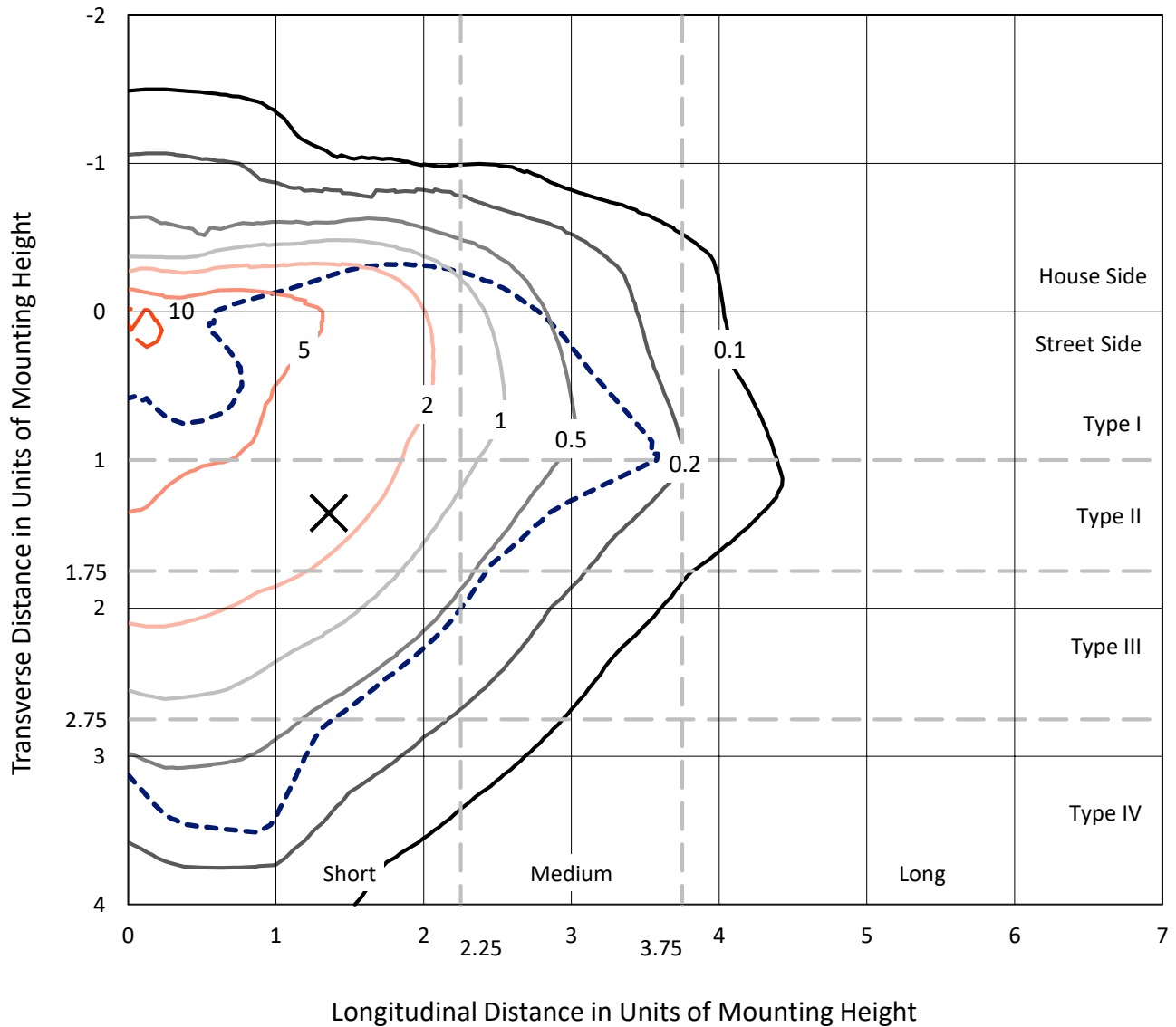


REPORT NUMBER: P269252

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

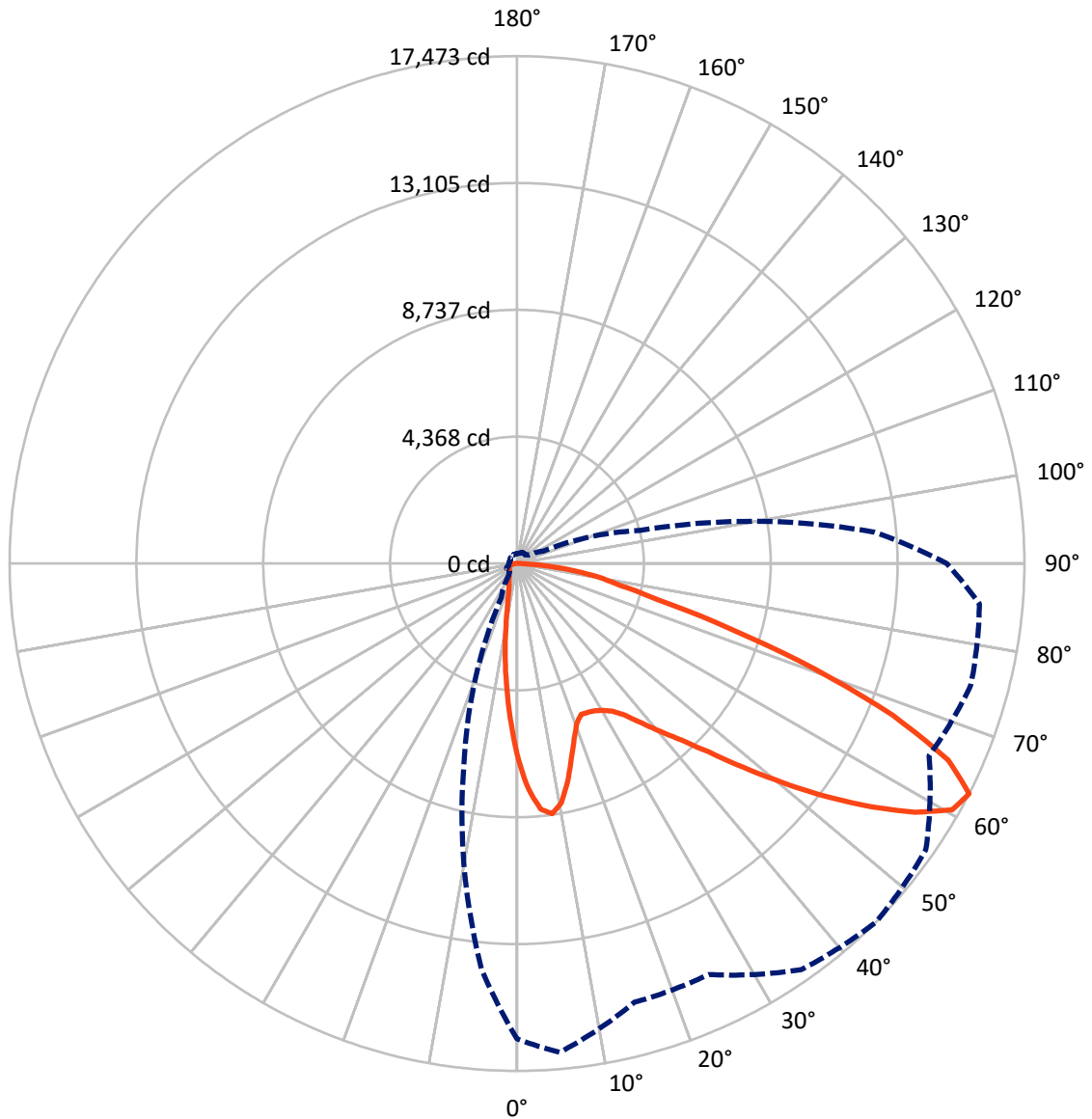


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P269252

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P269252

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3328.2	0.0	3328.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16783.4	0.0	16783.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	20111.5	0.0	20111.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.6	2.5
10°-20°	907.0	4.5
20°-30°	1322.4	6.6
30°-40°	2036.7	10.1
40°-50°	2997.5	14.9
50°-60°	4396.7	21.9
60°-70°	4914.9	24.4
70°-80°	2406.3	12.0
80°-90°	635.3	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°	20111.5	100.0
0°-180°	20111.5	100.0



REPORT NUMBER: P269252

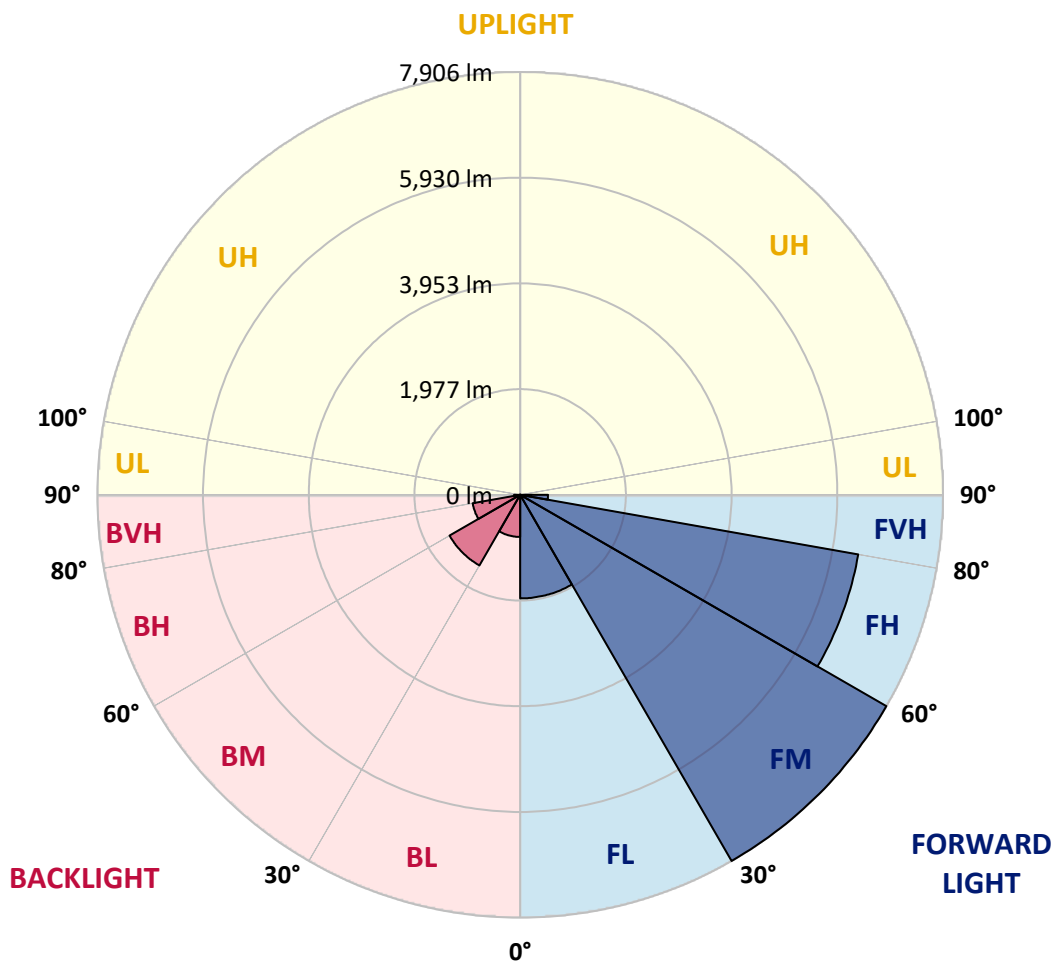
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1936.7	9.6			
FM (30°-60°)	7906.0	39.3			
FH (60°-80°)	6418.9	31.9			G3/7500
FVH (80°-90°)	521.7	2.6			G4/750
BL (0°-30°)	787.4	3.9	B2/1000		
BM (30°-60°)	1525.0	7.6	B2/2500		
BH (60°-80°)	902.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	113.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P269252

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8
2.5°	7060.0	7172.8	7393.0	7557.6	7757.8	7804.1	7868.3	7805.3	7693.5	7545.5	7496.7
5°	6638.8	6879.8	7413.9	7883.7	8301.6	8496.2	8550.3	8390.1	8066.2	7640.5	7380.7
7.5°	5963.4	6306.1	7029.1	7721.2	8337.0	8700.8	8691.9	8319.4	7723.4	7030.2	6613.4
10°	5380.8	5772.1	6601.3	7375.2	8028.5	8381.2	8245.3	7768.7	7058.0	6259.7	5807.5
12.5°	5054.7	5438.2	6279.6	7056.7	7603.0	7724.5	7620.6	7154.0	6484.1	5677.1	5281.2
15°	4998.2	5419.5	6151.4	6783.7	7090.0	6983.9	6859.9	6651.1	6177.9	5489.2	5076.7
17.5°	5242.6	5706.9	6298.3	6593.6	6541.5	6356.9	6321.6	6344.8	6231.0	5698.0	5222.7
20°	5711.3	6268.6	6648.9	6504.0	6124.9	5870.6	5879.3	6234.2	6571.5	6227.6	5684.7
22.5°	6369.2	7004.9	7154.0	6551.6	5949.0	5647.1	5720.1	6295.1	7114.2	7001.5	6308.3
25°	7220.3	7799.8	7692.5	6724.1	5966.7	5674.9	5733.4	6505.0	7755.4	7775.4	7080.0
27.5°	8045.1	8582.4	8144.7	6952.8	6039.7	5740.1	5817.5	6835.7	8368.0	8615.6	7962.2
30°	8688.5	9062.2	8323.8	7161.7	6183.5	5867.2	5963.4	7149.6	8646.5	9182.7	8641.1
32.5°	9221.6	9490.1	8608.9	7420.4	6447.7	6067.3	6236.5	7531.1	9047.9	9722.3	9305.5
35°	9902.5	9978.7	8963.8	7709.1	6855.5	6415.5	6625.5	7904.7	9430.3	10267.3	9960.0
37.5°	10700.7	10602.2	9298.9	8103.7	7382.9	6960.5	7134.2	8314.9	9745.5	10885.3	10628.8
40°	11490.1	11253.4	9718.9	8716.3	8152.4	7603.0	7808.5	8752.6	10039.5	11504.5	11282.3
42.5°	12161.2	11810.6	10133.5	9389.5	8868.7	8311.6	8557.1	9193.9	10320.4	12032.8	11849.4
45°	12657.6	12221.9	10528.2	10036.3	9856.1	9253.5	9369.6	9699.1	10624.4	12474.0	12315.9
47.5°	13100.9	12635.4	10974.9	10688.6	10719.5	10478.5	10291.6	10287.2	10982.6	12834.4	12757.0
50°	13694.5	13209.1	11454.6	11360.8	12015.2	11854.9	11442.5	10973.8	11436.0	13243.5	13234.5
52.5°	14512.7	14118.0	12040.6	12084.9	13224.7	13329.7	12819.0	11798.5	12145.7	13994.2	13941.1
55°	15480.0	15250.0	12838.8	12917.4	14708.4	14783.5	14276.0	12830.0	13189.4	15080.9	14934.0
57.5°	16235.1	16186.5	13714.5	13916.7	15816.1	16154.4	15687.9	14024.0	14365.7	15996.3	15627.0
60°	16535.8	16771.4	14646.4	14925.0	16841.0	17215.7	16806.7	15073.2	15408.2	16375.6	15579.6
62.5°	16373.2	16899.5	15639.2	15616.0	17069.9	17473.3	17186.0	15656.9	16181.0	15984.1	14791.2
65°	15622.7	16438.5	16215.2	15438.0	16287.1	16320.2	16227.4	15396.1	16363.3	14747.0	13267.7
67.5°	13987.5	15161.7	15456.7	13912.3	14175.4	13959.9	13804.1	13967.7	15412.6	12893.1	11150.7
70°	11392.8	13159.5	13300.9	11127.5	11008.0	10863.3	10552.6	11451.4	13536.5	10566.9	8847.8
72.5°	8376.9	10234.1	10668.6	8161.2	7608.5	7638.3	7393.0	8629.9	11005.9	7849.5	6605.6
75°	5731.1	7410.6	8347.1	5694.7	5031.3	5043.5	5012.6	6114.9	8766.0	5460.3	4943.0
77.5°	4186.7	5294.5	6295.1	3828.5	3716.8	3648.3	3631.8	4278.4	6720.7	3964.5	3838.5
80°	3359.8	3911.5	4228.7	2653.4	2853.5	2847.9	2756.2	2941.9	4389.1	2899.9	2871.2
82.5°	2330.6	3006.0	3426.1	2079.5	1925.8	1893.8	1915.9	2191.2	3102.1	1982.3	1885.0
85°	1229.4	1996.7	3393.0	1843.0	1143.2	912.0	1134.3	1794.4	2687.5	1050.3	919.9
87.5°	157.1	577.2	2246.5	735.3	451.0	243.3	538.4	1010.5	1725.7	214.4	186.8
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: P269252

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8
2.5°	7371.9	7224.8	7032.4	6854.4	6669.8	6486.3	6246.5	6096.1	5992.1	5972.2	5928.1
5°	7192.8	6704.1	6334.8	6015.3	5725.6	5316.6	5089.9	4902.1	4801.4	4791.5	4767.1
7.5°	6366.8	5692.5	5193.9	4741.8	4331.5	4001.1	3636.2	3465.9	3396.3	3412.9	3429.4
10°	5507.9	4753.9	4181.3	3719.2	3357.5	3079.0	2786.1	2588.0	2451.0	2423.4	2417.9
12.5°	4880.0	4053.0	3496.9	3170.7	2891.0	2629.0	2318.3	2085.1	1907.1	1846.2	1805.4
15°	4614.7	3710.3	3127.5	2776.0	2467.6	2134.8	1846.2	1601.9	1438.4	1385.2	1355.5
17.5°	4670.9	3615.1	2873.4	2423.4	2028.7	1681.5	1317.9	1108.9	1010.5	985.0	985.0
20°	4967.3	3597.5	2663.3	2098.4	1606.3	1204.0	905.4	786.0	753.9	750.7	759.4
22.5°	5383.0	3659.3	2506.4	1816.5	1248.1	878.9	705.3	661.2	646.8	650.1	660.1
25°	6002.0	3868.3	2392.5	1565.4	979.5	719.7	629.1	602.6	595.8	604.7	616.9
27.5°	6736.2	4077.2	2321.7	1376.5	827.0	657.7	598.1	570.5	574.8	586.0	597.1
30°	7380.7	4248.7	2210.0	1241.5	779.4	661.2	598.1	560.5	556.1	558.2	561.6
32.5°	7959.0	4364.8	2079.5	1113.3	672.2	587.0	558.2	552.7	528.5	519.6	520.7
35°	8457.5	4364.8	2001.1	1038.1	602.6	520.7	474.2	446.6	434.5	435.6	447.7
37.5°	8938.5	4277.4	1962.3	996.1	564.9	495.2	454.5	430.1	413.5	410.2	412.4
40°	9362.9	4150.3	1918.2	978.4	536.2	479.9	441.1	421.2	403.5	397.9	399.0
42.5°	9703.5	4047.5	1869.6	955.2	518.5	468.7	432.3	414.6	394.6	389.1	388.1
45°	10071.6	4013.2	1805.4	908.7	527.3	469.9	430.1	411.2	391.4	384.7	382.5
47.5°	10557.1	4120.4	1739.1	853.5	546.2	475.5	433.4	411.2	390.3	384.7	382.5
50°	11168.4	4372.5	1654.9	772.8	527.3	490.8	432.3	407.9	390.3	384.7	380.3
52.5°	11953.2	4713.0	1544.5	679.8	516.3	528.5	430.1	401.4	384.7	377.0	369.3
55°	12907.3	4991.6	1412.9	603.7	490.8	518.5	426.8	393.5	375.9	364.8	358.2
57.5°	13606.1	5092.2	1243.8	553.9	455.5	502.0	422.4	383.7	364.8	356.0	347.1
60°	13467.8	4897.6	1101.1	523.0	434.5	453.3	419.0	374.9	354.9	348.3	340.5
62.5°	12361.2	4389.1	1009.3	508.6	421.2	413.5	422.4	365.9	346.0	339.4	337.3
65°	10701.8	3638.3	972.9	505.2	410.2	390.3	392.5	356.0	336.1	330.5	328.3
67.5°	8827.9	2936.4	940.9	516.3	395.9	373.6	362.6	342.8	326.2	320.6	316.3
70°	6961.8	2442.2	926.4	509.7	378.0	357.0	344.9	328.3	314.0	308.5	305.2
72.5°	5606.3	2063.0	918.7	503.1	354.9	335.0	323.8	309.6	294.0	291.9	288.5
75°	4743.9	1621.9	841.4	482.0	328.3	308.5	300.8	287.5	271.9	271.9	269.8
77.5°	3659.3	1172.9	699.8	426.8	300.8	278.7	271.9	262.0	244.2	247.7	246.6
80°	2703.1	765.0	547.2	353.8	266.4	245.4	242.2	232.1	213.3	217.7	217.7
82.5°	1851.8	502.0	393.5	289.7	227.7	207.9	207.9	197.8	176.8	179.1	185.7
85°	929.7	344.9	294.0	224.4	176.8	166.9	166.9	159.2	138.2	139.2	148.1
87.5°	283.1	207.9	194.6	160.3	127.1	125.0	119.5	113.8	100.6	99.5	105.0
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: P269252

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8
2.5°	5860.5	5797.5	5721.2	5553.2	5496.8	5493.6	5544.3	5491.2	5592.9	5549.9	5597.5
5°	4726.3	4664.4	4579.2	4364.8	4234.3	4145.9	4103.8	3980.0	4069.5	4004.4	4058.5
7.5°	3475.9	3490.3	3434.0	3307.7	3023.8	2881.0	2797.1	2721.9	2787.1	2780.4	2884.4
10°	2443.3	2481.9	2442.2	2315.0	2085.1	2006.5	2022.1	2051.9	2137.1	2181.3	2341.6
12.5°	1758.9	1756.7	1731.4	1617.4	1465.9	1474.7	1537.8	1589.8	1668.3	1714.8	1878.4
15°	1313.4	1293.5	1282.4	1189.5	1103.4	1122.2	1153.2	1158.6	1208.4	1236.0	1368.7
17.5°	992.7	1002.8	1014.9	948.6	883.4	871.1	846.8	817.0	831.4	837.0	903.2
20°	788.3	828.1	857.9	811.4	745.1	709.8	678.8	658.8	658.8	657.7	676.7
22.5°	688.8	717.4	749.5	717.4	657.7	626.8	609.2	593.7	591.4	591.4	609.2
25°	634.7	655.7	686.6	664.4	620.2	597.1	580.5	560.5	552.7	550.7	562.7
27.5°	608.1	616.9	632.3	612.5	574.8	563.9	559.5	541.7	531.7	526.2	538.4
30°	562.7	560.5	561.6	541.7	511.9	510.7	518.5	521.8	518.5	517.5	536.2
32.5°	520.7	516.3	515.2	497.5	469.9	463.3	469.9	476.6	484.2	495.2	517.5
35°	467.7	478.6	485.4	469.9	436.7	416.9	409.1	397.0	390.3	390.3	415.6
37.5°	425.6	451.0	461.0	446.6	410.2	382.5	369.3	367.0	368.1	372.5	397.0
40°	411.2	430.1	438.9	424.4	388.1	362.6	354.9	352.7	354.9	361.5	385.8
42.5°	402.4	415.6	414.6	397.0	367.0	349.4	344.9	342.8	344.9	351.5	378.0
45°	394.6	403.5	394.6	373.6	346.0	337.3	338.3	337.3	339.4	346.0	371.4
47.5°	388.1	391.4	380.3	359.3	330.5	328.3	332.8	336.1	338.3	343.8	370.3
50°	378.0	378.0	368.1	346.0	317.3	318.4	323.8	331.7	332.8	339.4	360.4
52.5°	365.9	364.8	358.2	337.3	306.2	309.6	309.6	318.4	320.6	328.3	350.5
55°	356.0	353.8	350.5	330.5	296.4	301.8	298.4	301.8	307.3	315.0	339.4
57.5°	347.1	342.8	342.8	325.0	288.5	290.7	283.1	287.5	294.0	300.8	326.2
60°	338.3	333.9	336.1	317.3	276.4	274.3	270.8	279.7	281.9	289.7	315.0
62.5°	328.3	325.0	326.2	308.5	267.5	262.0	262.0	269.8	270.8	281.9	306.2
65°	320.6	316.3	315.0	299.7	257.6	250.9	254.3	257.6	259.8	270.8	294.0
67.5°	312.9	304.0	304.0	291.9	246.6	239.8	246.6	245.4	248.7	258.7	277.4
70°	302.9	290.7	291.9	286.3	235.4	227.7	233.3	232.1	234.4	241.0	259.8
72.5°	287.5	277.4	279.7	277.4	224.4	213.3	215.7	215.7	215.7	221.2	241.0
75°	267.5	259.8	266.4	271.9	211.1	195.7	197.8	197.8	194.6	197.8	222.2
77.5°	243.3	238.8	260.9	253.1	195.7	176.8	176.8	174.7	168.1	172.5	199.1
80°	216.8	213.3	241.0	212.3	178.0	153.7	151.5	146.0	139.2	142.7	169.2
82.5°	189.1	185.7	202.3	162.6	153.7	127.1	121.6	111.7	105.0	108.3	132.7
85°	154.8	154.8	155.9	122.7	117.1	97.2	90.6	77.3	69.7	71.9	95.1
87.5°	110.5	113.8	105.0	84.0	69.7	54.2	49.8	42.0	35.4	41.0	49.8
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: P269252

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8	6794.8
2.5°	5840.7	5962.3	6100.5	6277.4	6428.8	6677.6	6916.4	7060.0
5°	4367.0	4569.3	4821.4	5145.2	5447.1	5900.3	6350.3	6638.8
7.5°	3125.5	3342.1	3614.2	4018.7	4445.4	5023.6	5618.4	5963.4
10°	2586.0	2808.1	3037.0	3310.1	3659.3	4288.5	4991.6	5380.8
12.5°	2139.3	2376.9	2623.5	2911.0	3234.8	3796.4	4606.9	5054.7
15°	1637.3	1902.7	2193.4	2557.1	2962.9	3611.8	4511.7	4998.2
17.5°	1122.2	1418.5	1775.5	2224.5	2720.7	3552.2	4682.1	5242.6
20°	772.8	988.3	1369.7	1896.1	2493.1	3544.4	5009.3	5711.3
22.5°	646.8	743.0	1021.6	1594.2	2321.7	3639.6	5516.8	6369.2
25°	598.1	655.7	815.9	1332.1	2196.7	3858.4	6215.5	7220.3
27.5°	569.3	621.3	740.7	1160.8	2098.4	4112.7	6895.4	8045.1
30°	580.5	633.5	719.7	1073.6	1964.6	4324.9	7499.1	8688.5
32.5°	523.0	546.2	616.9	996.1	1868.4	4502.9	8027.4	9221.6
35°	445.5	486.4	550.7	959.6	1870.6	4622.4	8603.4	9902.5
37.5°	424.4	465.4	511.9	946.4	1896.1	4749.5	9264.6	10700.7
40°	411.2	448.9	488.7	938.5	1920.3	4865.6	9912.4	11490.1
42.5°	402.4	436.7	486.4	912.0	1932.6	4969.5	10445.3	12161.2
45°	401.4	436.7	495.2	885.5	1951.3	5081.2	10891.9	12657.6
47.5°	402.4	451.0	478.6	853.5	1951.3	5268.0	11416.0	13100.9
50°	397.9	475.5	461.0	808.1	1905.9	5621.8	12134.7	13694.5
52.5°	395.9	472.1	426.8	738.4	1827.5	6183.5	13055.5	14512.7
55°	390.3	455.5	402.4	634.7	1735.7	6795.9	14041.6	15480.0
57.5°	384.7	403.5	389.1	544.0	1594.2	7227.0	14720.5	16235.1
60°	431.1	352.7	378.0	499.6	1405.2	7345.4	14693.9	16535.8
62.5°	399.0	330.5	363.8	489.8	1272.4	7013.6	14015.1	16373.2
65°	312.9	316.3	349.4	518.5	1237.1	6134.7	12812.3	15622.7
67.5°	286.3	301.8	335.0	555.1	1240.4	4912.0	11014.7	13987.5
70°	269.8	286.3	318.4	573.7	1249.4	3661.6	8708.4	11392.8
72.5°	250.9	265.3	299.7	577.2	1191.8	2660.1	6711.9	8376.9
75°	228.9	242.2	273.1	503.1	987.2	1845.2	5134.3	5731.1
77.5°	203.5	213.3	239.8	388.1	732.9	1180.7	3854.0	4186.7
80°	173.6	179.1	201.2	284.1	502.0	738.4	3049.1	3359.8
82.5°	139.2	141.6	155.9	213.3	326.2	474.2	2041.9	2330.6
85°	98.5	98.5	107.3	154.8	222.2	300.8	1108.9	1229.4
87.5°	46.4	47.5	47.5	85.1	116.2	152.5	255.4	157.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)