

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: P193827

Luminaire Tested: **GLEON-AF-09-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193827
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-09-LED-E1-SLL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 30832 lumens
Efficiency: N/A
Efficacy: 82.4 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): 374
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

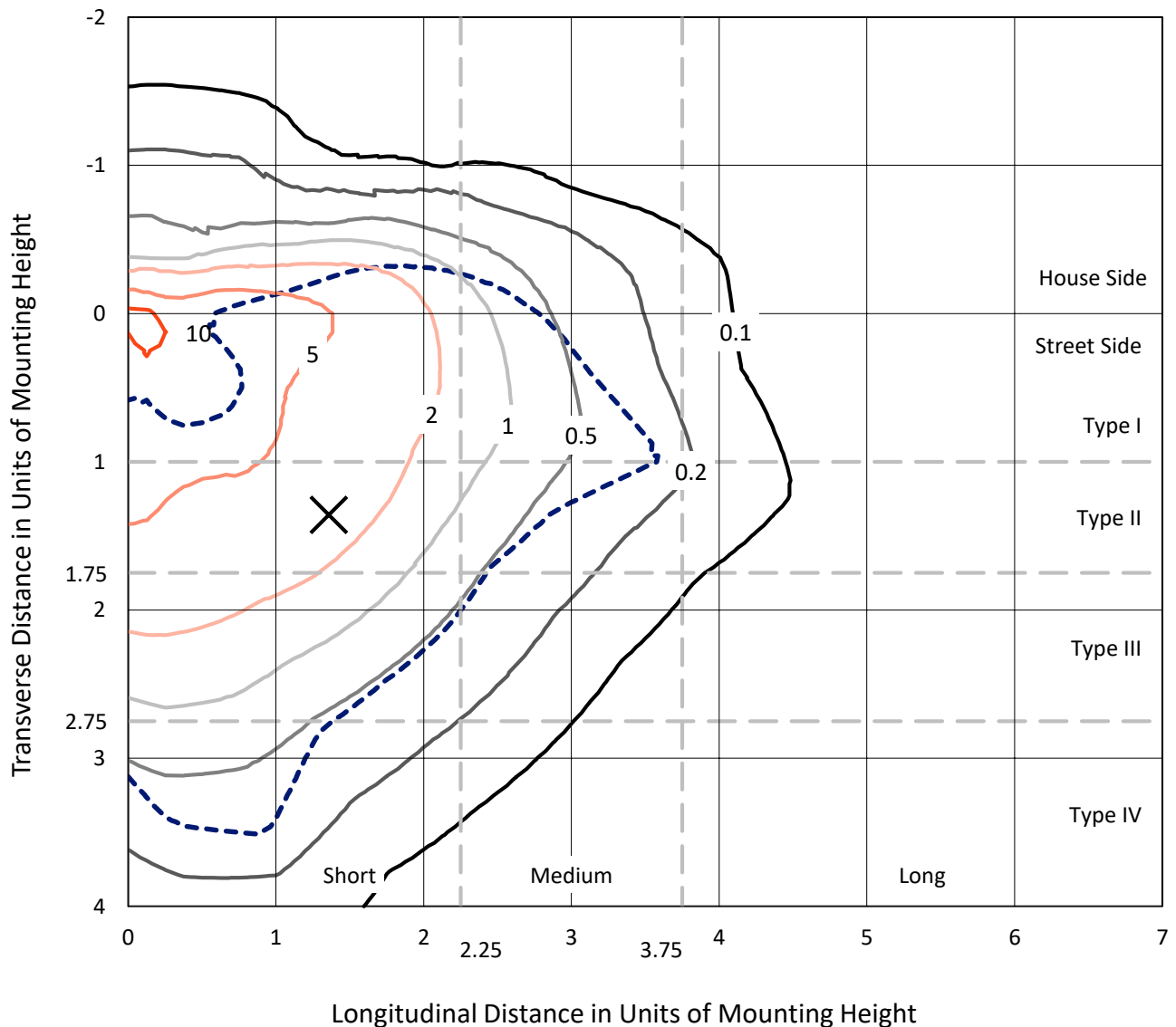


REPORT NUMBER: P193827

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-800

Iso-Footcandle Lines of Horizontal Illumination

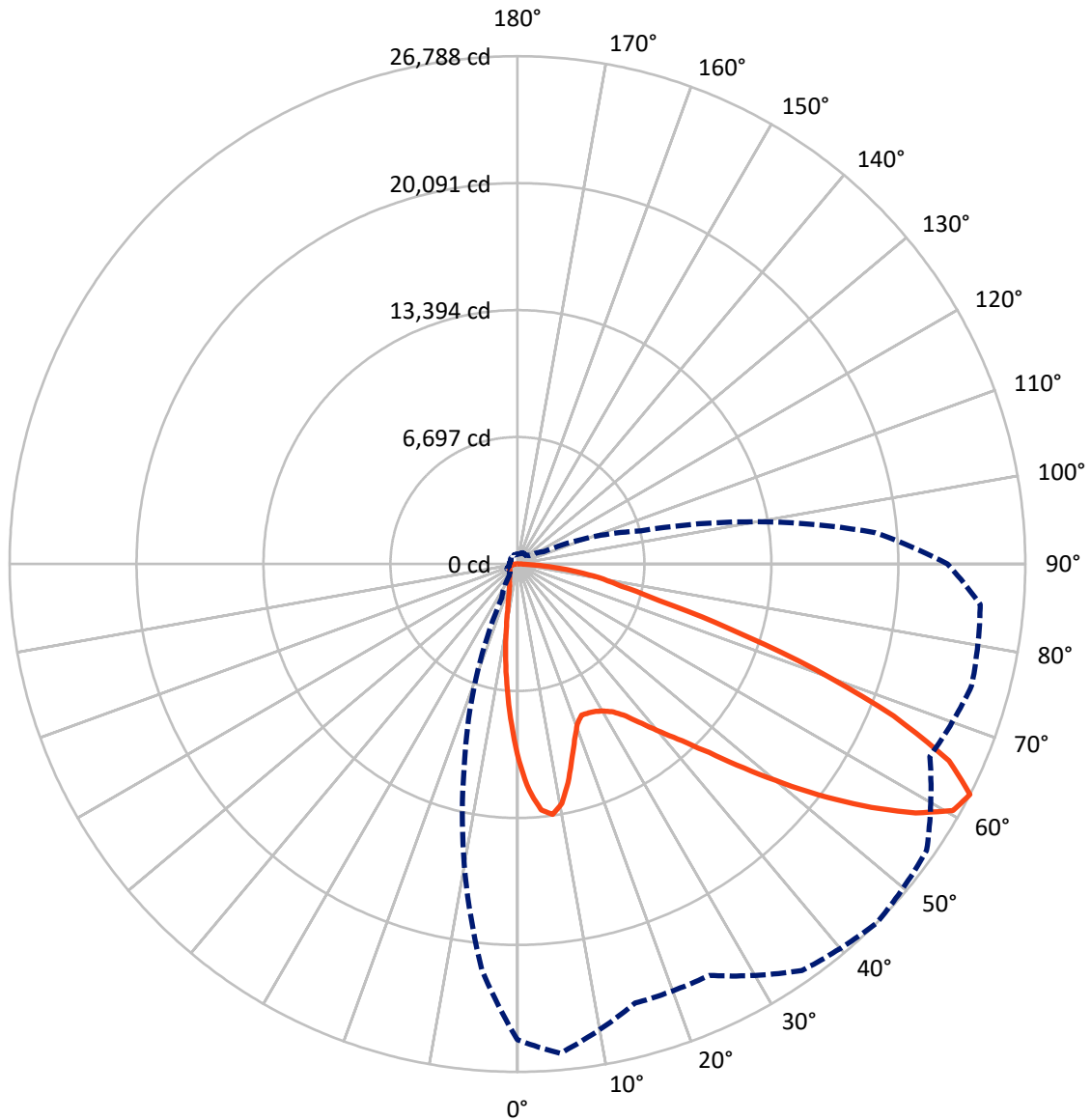
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193827
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193827

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5102.3	0.0	5102.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	25729.7	0.0	25729.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	30832.0	0.0	30832.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.3	2.5
10°-20°	1390.5	4.5
20°-30°	2027.3	6.6
30°-40°	3122.4	10.1
40°-50°	4595.4	14.9
50°-60°	6740.4	21.9
60°-70°	7534.8	24.4
70°-80°	3688.9	12.0
80°-90°	974.0	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°	30832.0	100.0
0°-180°	30832.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193827

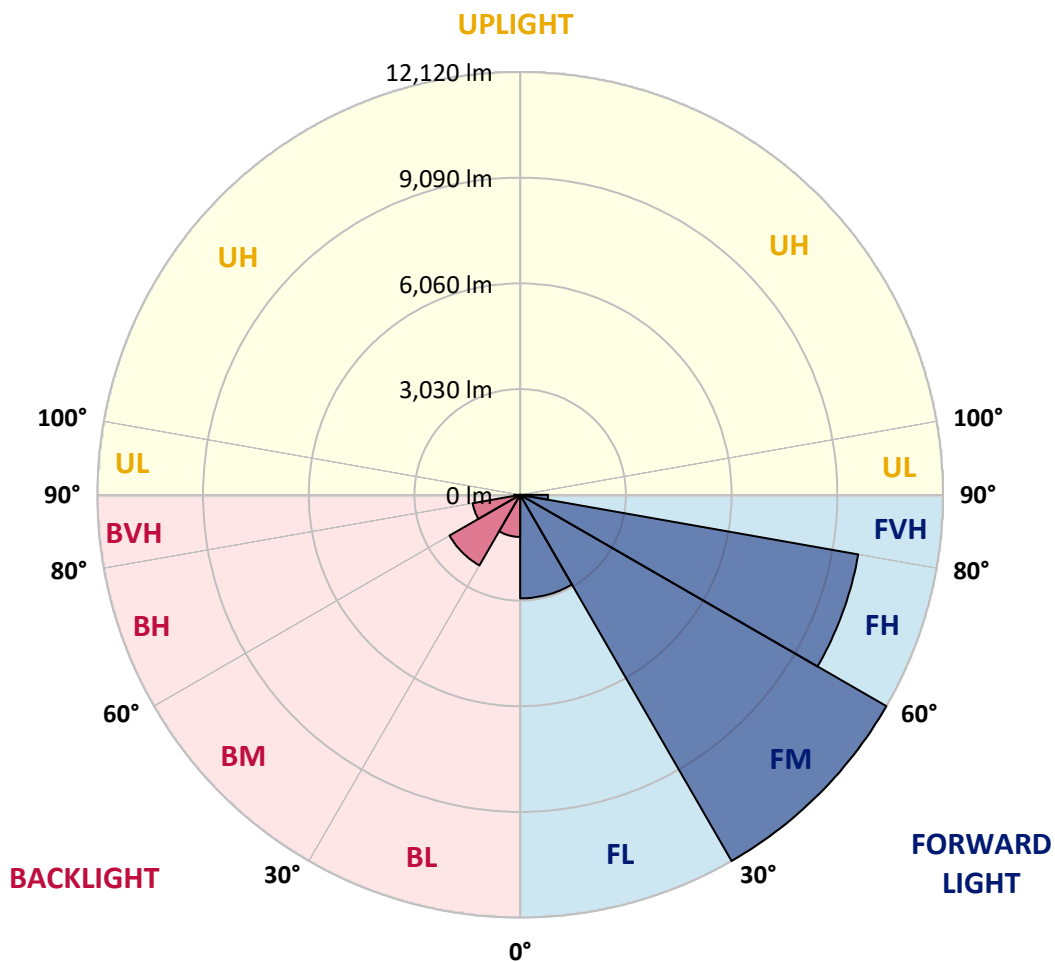
CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2969.0	9.6			
FM	(30°-60°)	12120.3	39.3			
FH	(60°-80°)	9840.5	31.9			G4/12000
FVH	(80°-90°)	799.9	2.6			G5
BL	(0°-30°)	1207.1	3.9	B3/2500		
BM	(30°-60°)	2337.8	7.6	B2/2500		
BH	(60°-80°)	1383.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	174.1	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





REPORT NUMBER: P193827

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7
2.5°	10823.5	10996.4	11333.6	11586.2	11892.9	11964.1	12062.4	11965.8	11794.6	11567.5	11493.0
5°	10177.7	10547.2	11365.8	12086.2	12726.8	13025.1	13108.2	12862.4	12365.8	11713.3	11315.0
7.5°	9142.2	9667.6	10776.0	11837.0	12781.1	13338.7	13325.1	12753.9	11840.4	10777.7	10138.8
10°	8249.0	8848.9	10120.1	11306.5	12308.2	12848.9	12640.4	11909.9	10820.1	9596.4	8903.2
12.5°	7749.0	8337.1	9626.9	10818.4	11655.7	11842.1	11682.8	10967.5	9940.5	8703.2	8096.4
15°	7662.5	8308.3	9430.3	10399.8	10869.2	10706.5	10516.7	10196.4	9471.0	8415.1	7782.9
17.5°	8037.1	8749.0	9655.7	10108.2	10028.6	9745.5	9691.3	9726.9	9552.3	8735.4	8006.6
20°	8755.7	9609.9	10193.0	9971.0	9389.6	8999.8	9013.4	9557.4	10074.3	9547.2	8715.1
22.5°	9764.2	10738.7	10967.5	10043.8	9120.1	8657.4	8769.3	9650.6	10906.5	10733.7	9671.0
25°	11069.2	11957.4	11793.0	10308.2	9147.2	8699.8	8789.6	9972.7	11889.6	11920.1	10854.0
27.5°	12333.6	13157.3	12486.2	10659.1	9259.1	8799.8	8918.4	10479.4	12828.5	13208.2	12206.5
30°	13320.0	13892.9	12760.7	10979.4	9479.4	8994.7	9142.2	10960.8	13255.6	14077.6	13247.2
32.5°	14137.0	14548.8	13198.0	11376.0	9884.5	9301.5	9560.8	11545.5	13870.9	14904.7	14265.8
35°	15181.0	15298.0	13742.1	11818.4	10509.9	9835.4	10157.4	12118.4	14457.3	15740.3	15269.1
37.5°	16404.7	16253.9	14255.6	12423.4	11318.4	10670.9	10937.0	12747.2	14940.3	16687.8	16294.5
40°	17614.9	17252.1	14899.7	13362.4	12498.0	11655.7	11970.9	13418.3	15391.2	17636.9	17296.2
42.5°	18643.6	18106.4	15535.2	14394.6	13596.3	12742.1	13118.3	14094.6	15821.7	18447.0	18165.7
45°	19404.6	18736.9	16140.3	15386.1	15109.8	14186.1	14364.1	14869.2	16287.8	19123.3	18880.9
47.5°	20084.3	19370.7	16825.0	16386.1	16433.5	16064.0	15777.6	15770.8	16836.9	19675.8	19557.2
50°	20994.4	20250.4	17560.6	17416.6	18419.9	18174.2	17542.0	16823.3	17531.8	20302.9	20289.4
52.5°	22248.6	21643.6	18458.9	18526.7	20274.1	20435.1	19652.1	18087.7	18619.9	21453.7	21372.4
55°	23731.7	23379.1	19682.6	19802.9	22548.6	22663.9	21885.9	19669.0	20219.9	23119.8	22894.4
57.5°	24889.3	24814.7	21024.9	21335.1	24246.9	24765.5	24050.3	21499.5	22023.2	24523.2	23957.1
60°	25350.3	25711.3	22453.7	22880.8	25818.1	26392.6	25765.5	23107.9	23621.5	25104.5	23884.2
62.5°	25101.1	25907.9	23975.7	23940.1	26168.9	26787.5	26346.9	24002.8	24806.2	24504.5	22675.8
65°	23950.3	25201.1	24858.8	23667.3	24968.9	25019.8	24877.4	23602.8	25085.9	22608.0	20340.2
67.5°	21443.6	23243.5	23696.1	21328.3	21731.7	21401.2	21162.2	21413.1	23628.3	19765.6	17094.5
70°	17465.7	20174.1	20391.1	17058.9	16875.9	16653.9	16177.6	17555.5	20752.1	16199.6	13564.1
72.5°	12842.1	15689.5	16355.6	12511.6	11664.1	11709.9	11333.6	13230.2	16872.5	12033.6	10126.9
75°	8786.2	11360.8	12796.3	8730.3	7713.4	7732.0	7684.6	9374.4	13438.7	8371.0	7577.8
77.5°	6418.5	8116.8	9650.6	5869.4	5698.2	5593.1	5567.7	6559.2	10303.2	6077.8	5884.6
80°	5150.7	5996.5	6482.9	4067.7	4374.5	4366.0	4225.3	4510.1	6728.7	4445.7	4401.6
82.5°	3572.8	4608.4	5252.4	3188.1	2952.5	2903.3	2937.2	3359.2	4755.8	3038.9	2889.8
85°	1884.7	3060.9	5201.6	2825.4	1752.5	1398.3	1738.9	2750.8	4120.2	1610.1	1410.1
87.5°	240.7	884.7	3444.0	1127.1	691.5	372.9	825.4	1549.1	2645.7	328.8	286.4
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: P193827

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7
2.5°	11301.4	11076.0	10781.1	10508.2	10225.2	9943.8	9576.1	9345.5	9186.2	9155.7	9087.9
5°	11026.9	10277.7	9711.6	9221.8	8777.8	8150.7	7803.2	7515.1	7360.8	7345.6	7308.3
7.5°	9760.8	8726.9	7962.5	7269.3	6640.5	6133.8	5574.4	5313.4	5206.7	5232.1	5257.5
10°	8443.9	7288.0	6410.0	5701.6	5147.3	4720.2	4271.1	3967.7	3757.5	3715.2	3706.7
12.5°	7481.2	6213.4	5360.9	4860.9	4432.1	4030.4	3554.2	3196.5	2923.7	2830.4	2767.7
15°	7074.4	5688.0	4794.8	4255.8	3783.0	3272.8	2830.4	2455.9	2205.0	2123.7	2077.9
17.5°	7160.9	5542.2	4405.0	3715.2	3110.1	2577.9	2020.3	1700.0	1549.1	1510.1	1510.1
20°	7615.1	5515.1	4083.0	3216.9	2462.7	1845.7	1388.1	1205.1	1155.9	1150.8	1164.4
22.5°	8252.4	5610.0	3842.3	2784.7	1913.5	1347.4	1081.3	1013.5	991.5	996.6	1011.8
25°	9201.5	5930.4	3667.7	2399.9	1501.7	1103.4	964.4	923.7	913.5	927.1	945.7
27.5°	10326.9	6250.7	3559.2	2110.1	1267.8	1008.5	916.9	874.6	881.3	898.3	915.2
30°	11315.0	6513.4	3388.1	1903.3	1194.9	1013.5	916.9	859.3	852.5	855.9	861.0
32.5°	12201.4	6691.4	3188.1	1706.7	1030.5	900.0	855.9	847.4	810.2	796.6	798.3
35°	12965.8	6691.4	3067.7	1591.5	923.7	798.3	727.1	684.7	666.1	667.8	686.4
37.5°	13703.1	6557.5	3008.4	1527.1	866.1	759.3	696.6	659.3	633.9	628.8	632.2
40°	14353.9	6362.6	2940.6	1500.0	822.0	735.6	676.3	645.7	618.6	610.2	611.9
42.5°	14875.9	6204.9	2866.0	1464.4	794.9	718.6	662.7	635.6	605.1	596.6	594.9
45°	15440.3	6152.4	2767.7	1393.2	808.5	720.3	659.3	630.5	600.0	589.8	586.4
47.5°	16184.4	6316.8	2666.0	1308.4	837.3	728.8	664.4	630.5	598.3	589.8	586.4
50°	17121.6	6703.2	2537.2	1184.7	808.5	752.5	662.7	625.4	598.3	589.8	583.0
52.5°	18325.0	7225.3	2367.7	1042.3	791.5	810.2	659.3	615.2	589.8	578.0	566.1
55°	19787.7	7652.4	2166.1	925.4	752.5	794.9	654.2	603.4	576.3	559.3	549.1
57.5°	20858.8	7806.6	1906.7	849.1	698.3	769.5	647.4	588.1	559.3	545.8	532.2
60°	20647.0	7508.3	1688.1	801.7	666.1	694.9	642.4	574.6	544.1	533.9	522.0
62.5°	18950.4	6728.7	1547.4	779.6	645.7	633.9	647.4	561.0	530.5	520.3	516.9
65°	16406.4	5577.8	1491.5	774.6	628.8	598.3	601.7	545.8	515.2	506.8	503.4
67.5°	13533.6	4501.6	1442.3	791.5	606.8	572.9	555.9	525.4	500.0	491.5	484.7
70°	10672.6	3744.0	1420.3	781.3	579.6	547.4	528.8	503.4	481.3	472.9	467.8
72.5°	8594.7	3162.6	1408.4	771.2	544.1	513.5	496.6	474.6	450.8	447.4	442.4
75°	7272.7	2486.4	1289.8	739.0	503.4	472.9	461.0	440.7	416.9	416.9	413.5
77.5°	5610.0	1798.3	1072.9	654.2	461.0	427.1	416.9	401.7	374.6	379.7	378.0
80°	4144.0	1172.9	839.0	542.4	408.5	376.3	371.2	355.9	327.1	333.9	333.9
82.5°	2838.9	769.5	603.4	444.1	349.1	318.6	318.6	303.4	271.2	274.6	284.7
85°	1425.4	528.8	450.8	344.1	271.2	255.9	255.9	244.1	211.9	213.6	227.1
87.5°	433.9	318.6	298.3	245.8	194.9	191.5	183.0	174.6	154.2	152.5	161.0
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: P193827

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7
2.5°	8984.5	8887.9	8771.0	8513.4	8426.9	8421.8	8499.8	8418.5	8574.4	8508.3	8581.2
5°	7245.6	7150.7	7020.2	6691.4	6491.4	6355.8	6291.4	6101.6	6238.8	6138.8	6221.9
7.5°	5328.7	5350.7	5264.3	5071.1	4635.5	4416.8	4288.0	4172.8	4272.8	4262.6	4421.9
10°	3745.7	3805.0	3744.0	3549.1	3196.5	3076.2	3099.9	3145.7	3276.2	3344.0	3589.7
12.5°	2696.5	2693.2	2654.2	2479.6	2247.4	2261.0	2357.6	2437.2	2557.6	2628.8	2879.6
15°	2013.5	1983.0	1966.1	1823.7	1691.5	1720.3	1767.8	1776.2	1852.5	1894.9	2098.3
17.5°	1522.0	1537.3	1555.9	1454.2	1354.2	1335.6	1298.3	1252.5	1274.5	1283.0	1384.7
20°	1208.4	1269.5	1315.2	1244.0	1142.3	1088.1	1040.7	1010.1	1010.1	1008.5	1037.3
22.5°	1055.9	1100.0	1149.1	1100.0	1008.5	961.0	933.9	910.1	906.8	906.8	933.9
25°	972.9	1005.1	1052.5	1018.6	950.8	915.2	889.8	859.3	847.4	844.0	862.7
27.5°	932.2	945.7	969.5	939.0	881.3	864.4	857.6	830.5	815.2	806.8	825.4
30°	862.7	859.3	861.0	830.5	784.7	783.0	794.9	800.0	794.9	793.2	822.0
32.5°	798.3	791.5	789.8	762.7	720.3	710.2	720.3	730.5	742.4	759.3	793.2
35°	716.9	733.9	744.1	720.3	669.5	639.0	627.1	608.5	598.3	598.3	637.3
37.5°	652.5	691.5	706.8	684.7	628.8	586.4	566.1	562.7	564.4	571.2	608.5
40°	630.5	659.3	672.9	650.8	594.9	555.9	544.1	540.7	544.1	554.2	591.5
42.5°	616.9	637.3	635.6	608.5	562.7	535.6	528.8	525.4	528.8	539.0	579.6
45°	605.1	618.6	605.1	572.9	530.5	516.9	518.6	516.9	520.3	530.5	569.5
47.5°	594.9	600.0	583.0	550.8	506.8	503.4	510.2	515.2	518.6	527.1	567.8
50°	579.6	579.6	564.4	530.5	486.4	488.1	496.6	508.5	510.2	520.3	552.5
52.5°	561.0	559.3	549.1	516.9	469.5	474.6	474.6	488.1	491.5	503.4	537.3
55°	545.8	542.4	537.3	506.8	454.2	462.7	457.6	462.7	471.2	483.0	520.3
57.5°	532.2	525.4	525.4	498.3	442.4	445.8	433.9	440.7	450.8	461.0	500.0
60°	518.6	511.9	515.2	486.4	423.7	420.3	415.2	428.8	432.2	444.1	483.0
62.5°	503.4	498.3	500.0	472.9	410.2	401.7	401.7	413.5	415.2	432.2	469.5
65°	491.5	484.7	483.0	459.3	394.9	384.7	389.8	394.9	398.3	415.2	450.8
67.5°	479.7	466.1	466.1	447.4	378.0	367.8	378.0	376.3	381.3	396.6	425.4
70°	464.4	445.8	447.4	439.0	361.0	349.1	357.6	355.9	359.3	369.5	398.3
72.5°	440.7	425.4	428.8	425.4	344.1	327.1	330.5	330.5	330.5	339.0	369.5
75°	410.2	398.3	408.5	416.9	323.7	300.0	303.4	303.4	298.3	303.4	340.7
77.5°	372.9	366.1	400.0	388.1	300.0	271.2	271.2	267.8	257.6	264.4	305.1
80°	332.2	327.1	369.5	325.4	272.9	235.6	232.2	223.7	213.6	218.6	259.3
82.5°	289.8	284.7	310.2	249.1	235.6	194.9	186.4	171.2	161.0	166.1	203.4
85°	237.3	237.3	239.0	188.1	179.7	149.1	139.0	118.6	106.8	110.2	145.8
87.5°	169.5	174.6	161.0	128.8	106.8	83.0	76.3	64.4	54.2	62.7	76.3
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: P193827

CATALOG NUMBER: GLEON-AF-09-LED-E1-SLL-8030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7	10416.7
2.5°	8954.0	9140.5	9352.3	9623.5	9855.7	10237.1	10603.1	10823.5
5°	6694.8	7004.9	7391.4	7888.0	8350.7	9045.6	9735.4	10177.7
7.5°	4791.4	5123.6	5540.6	6160.9	6815.1	7701.5	8613.4	9142.2
10°	3964.3	4305.0	4655.8	5074.5	5610.0	6574.4	7652.4	8249.0
12.5°	3279.6	3644.0	4021.9	4462.6	4959.2	5820.2	7062.6	7749.0
15°	2510.1	2916.9	3362.6	3920.2	4542.3	5537.2	6916.8	7662.5
17.5°	1720.3	2174.5	2722.0	3410.1	4171.1	5445.6	7177.8	8037.1
20°	1184.7	1515.2	2100.0	2906.7	3821.9	5433.8	7679.5	8755.7
22.5°	991.5	1139.0	1566.1	2444.0	3559.2	5579.5	8457.4	9764.2
25°	916.9	1005.1	1250.8	2042.3	3367.7	5915.1	9528.6	11069.2
27.5°	872.9	952.5	1135.6	1779.6	3216.9	6304.9	10570.9	12333.6
30°	889.8	971.2	1103.4	1645.7	3011.8	6630.4	11496.3	13320.0
32.5°	801.7	837.3	945.7	1527.1	2864.3	6903.2	12306.5	14137.0
35°	683.0	745.7	844.0	1471.2	2867.7	7086.3	13189.5	15181.0
37.5°	650.8	713.5	784.7	1450.8	2906.7	7281.2	14203.1	16404.7
40°	630.5	688.1	749.1	1439.0	2944.0	7459.2	15196.3	17614.9
42.5°	616.9	669.5	745.7	1398.3	2962.6	7618.5	16013.2	18643.6
45°	615.2	669.5	759.3	1357.6	2991.5	7789.7	16697.9	19404.6
47.5°	616.9	691.5	733.9	1308.4	2991.5	8076.1	17501.3	20084.3
50°	610.2	728.8	706.8	1239.0	2922.0	8618.4	18603.0	20994.4
52.5°	606.8	723.7	654.2	1132.2	2801.6	9479.4	20014.8	22248.6
55°	598.3	698.3	616.9	972.9	2661.0	10418.4	21526.6	23731.7
57.5°	589.8	618.6	596.6	833.9	2444.0	11079.4	22567.3	24889.3
60°	661.0	540.7	579.6	766.1	2154.2	11260.8	22526.6	25350.3
62.5°	611.9	506.8	557.6	750.8	1950.8	10752.3	21485.9	25101.1
65°	479.7	484.7	535.6	794.9	1896.6	9404.9	19641.9	23950.3
67.5°	439.0	462.7	513.5	850.8	1901.7	7530.3	16886.1	21443.6
70°	413.5	439.0	488.1	879.6	1915.2	5613.4	13350.5	17465.7
72.5°	384.7	406.8	459.3	884.7	1827.1	4077.9	10289.6	12842.1
75°	350.8	371.2	418.6	771.2	1513.5	2828.7	7871.0	8786.2
77.5°	311.9	327.1	367.8	594.9	1123.7	1810.1	5908.3	6418.5
80°	266.1	274.6	308.5	435.6	769.5	1132.2	4674.5	5150.7
82.5°	213.6	216.9	239.0	327.1	500.0	727.1	3130.4	3572.8
85°	150.8	150.8	164.4	237.3	340.7	461.0	1700.0	1884.7
87.5°	71.2	72.9	72.9	130.5	178.0	233.9	391.5	240.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)