

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: P193951

Luminaire Tested: **GLEON-AF-03-LED-E1-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T2R-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15449 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

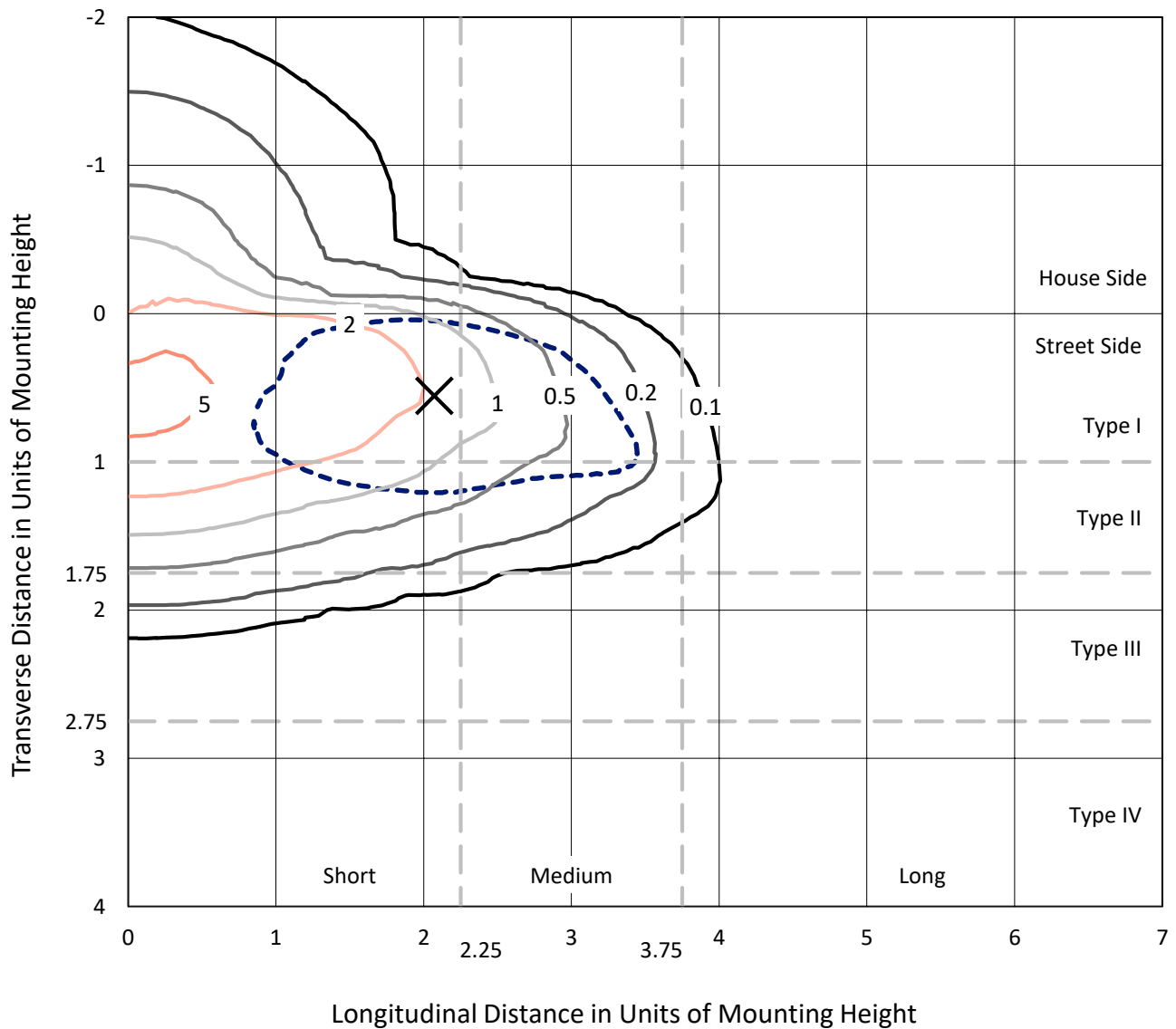
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

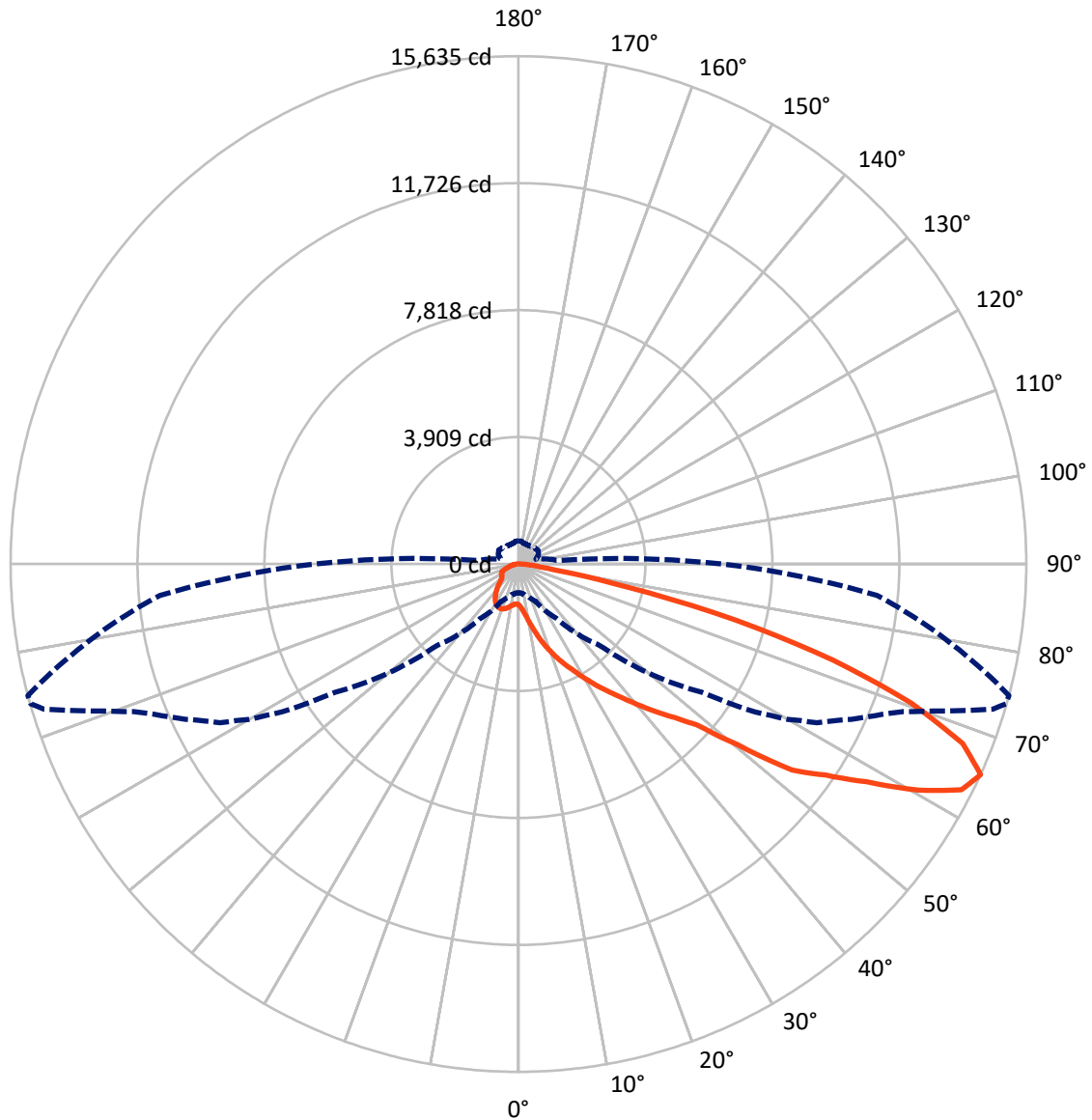
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193951
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P193951

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2381.9	0.0	2381.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	13067.1	0.0	13067.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	15449.0	0.0	15449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	1.0
10°-20°	606.4	3.9
20°-30°	1244.0	8.1
30°-40°	2093.0	13.5
40°-50°	2892.0	18.7
50°-60°	3610.1	23.4
60°-70°	3248.7	21.0
70°-80°	1361.8	8.8
80°-90°	237.9	1.5
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°	15449.0	100.0
0°-180°	15449.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193951

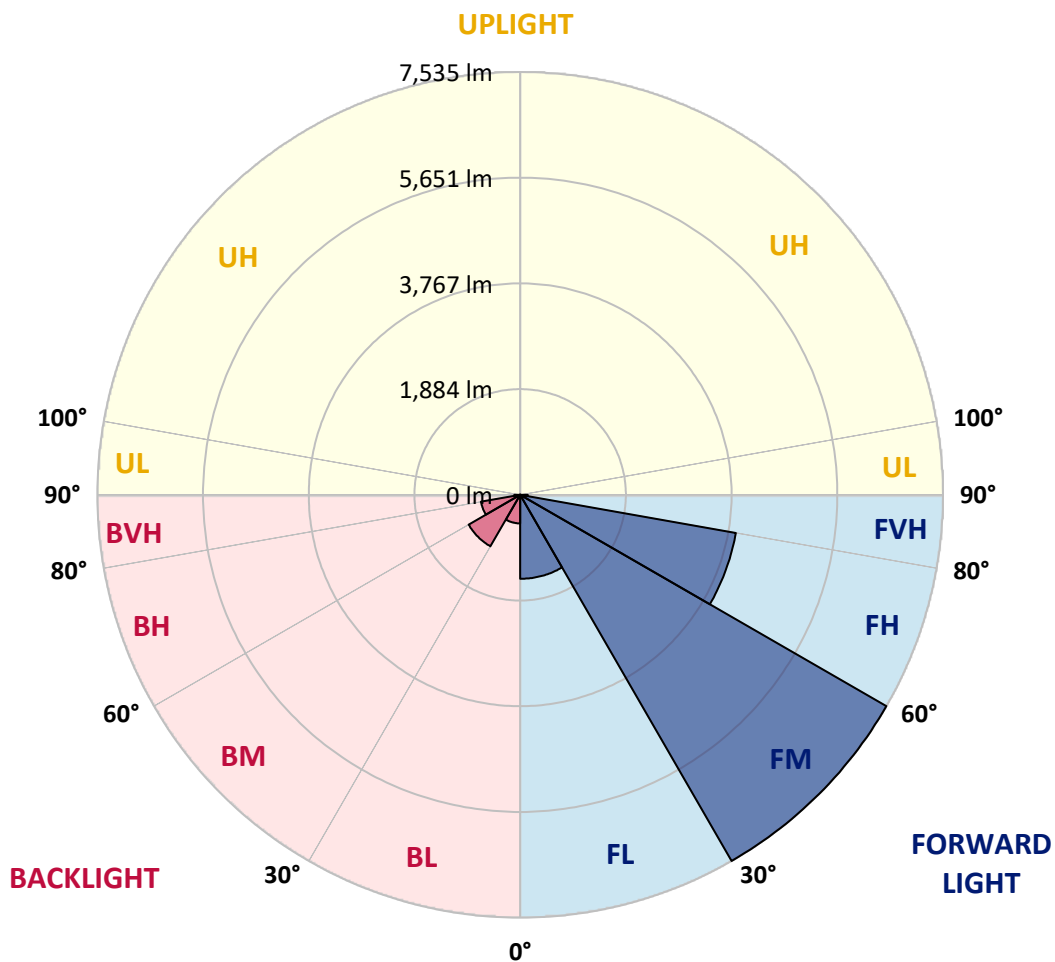
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1496.2	9.7			
FM (30°-60°)	7534.9	48.8			
FH (60°-80°)	3902.4	25.3			G2/5000
FVH (80°-90°)	133.7	0.9			G2/225
BL (0°-30°)	509.4	3.3	B2/1000		
BM (30°-60°)	1060.2	6.9	B2/2500		
BH (60°-80°)	708.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	104.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P193951

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5
2.5°	1594.1	1576.5	1580.9	1551.7	1515.8	1469.0	1417.1	1416.4	1417.1	1412.0	1393.0
5°	2210.5	2189.3	2181.3	2115.5	2018.9	1881.5	1732.3	1716.2	1709.6	1692.8	1654.0
7.5°	2660.2	2648.5	2636.1	2586.4	2498.6	2345.1	2144.7	2110.3	2077.4	2069.4	2025.5
10°	2950.5	2947.6	2921.3	2908.1	2853.3	2720.2	2524.9	2492.0	2456.2	2443.8	2397.7
12.5°	3180.1	3179.4	3167.0	3170.6	3123.1	3026.6	2858.4	2828.4	2802.1	2764.1	2731.2
15°	3338.8	3339.5	3357.8	3378.3	3371.0	3305.9	3148.0	3134.8	3112.1	3085.8	3047.0
17.5°	3469.0	3472.6	3491.6	3528.9	3569.1	3564.0	3439.0	3428.0	3408.3	3372.4	3352.0
20°	3762.9	3776.8	3740.3	3740.3	3744.6	3764.4	3704.4	3695.7	3667.9	3648.9	3632.8
22.5°	4259.4	4275.5	4192.9	4108.8	4026.2	3966.2	3906.2	3917.2	3898.2	3885.0	3875.5
25°	4904.4	4916.8	4783.0	4641.1	4473.0	4253.6	4105.1	4098.6	4088.3	4080.3	4075.9
27.5°	5511.3	5516.4	5389.9	5182.2	4987.0	4671.8	4307.0	4298.9	4286.5	4271.1	4258.0
30°	6030.5	6029.0	5898.9	5700.7	5491.6	5142.8	4613.3	4588.5	4551.9	4510.2	4478.1
32.5°	6480.2	6478.0	6335.4	6129.9	5910.6	5609.3	5033.1	4981.9	4924.9	4843.7	4794.7
35°	6834.1	6832.6	6698.1	6483.8	6232.3	6048.8	5514.2	5451.3	5378.9	5270.0	5194.7
37.5°	6967.9	6967.9	6892.6	6746.4	6524.1	6398.3	6048.8	5972.7	5895.2	5771.6	5686.8
40°	6889.7	6891.1	6907.2	6880.2	6771.9	6675.4	6547.5	6502.1	6435.6	6324.4	6236.0
42.5°	6627.2	6635.2	6742.0	6872.9	6927.0	6911.6	6989.9	6969.4	6922.6	6837.0	6766.8
45°	6294.5	6319.3	6436.3	6683.5	6970.1	7115.6	7360.6	7362.8	7354.0	7307.9	7253.8
47.5°	5837.4	5872.5	6026.8	6361.0	6869.2	7313.8	7737.2	7756.9	7775.2	7745.2	7720.4
50°	5230.5	5272.2	5503.3	5946.4	6663.7	7519.3	8448.7	8537.9	8621.2	8611.0	8627.8
52.5°	4580.4	4629.4	4912.4	5406.0	6310.5	7566.8	8903.5	9049.0	9194.5	9313.7	9440.2
55°	3994.0	3967.7	4250.7	4770.6	5729.9	7352.5	9312.3	9487.7	9650.1	9796.3	9947.0
57.5°	3199.1	3242.3	3526.0	4040.1	4961.4	6747.8	9593.8	9850.4	10083.7	10325.7	10539.3
60°	2338.5	2381.6	2689.5	3211.6	4127.1	5830.9	9378.8	9767.8	10141.5	10512.2	10801.8
62.5°	1412.0	1444.2	1715.5	2212.7	3182.3	4743.5	8420.9	8931.3	9481.2	9924.3	10368.2
65°	878.9	897.2	997.4	1270.9	2043.8	3541.4	6880.2	7436.6	8028.9	8591.3	9052.7
67.5°	719.5	726.1	744.4	802.9	1122.4	2309.2	5120.8	5613.7	6148.2	6692.2	7205.6
70°	647.1	642.8	642.8	646.4	719.5	1241.6	3352.7	3673.7	4119.0	4592.1	5061.6
72.5°	584.3	579.9	571.8	560.9	587.2	757.6	1733.0	1975.1	2296.1	2716.5	3166.2
75°	525.0	519.2	509.7	495.8	514.1	571.8	832.1	933.8	1090.3	1314.0	1564.8
77.5°	463.6	456.3	447.5	437.3	460.7	444.6	487.7	524.3	584.3	655.9	750.2
80°	394.1	387.6	384.6	379.5	407.3	338.6	344.4	367.1	402.2	440.9	484.8
82.5°	308.6	308.6	320.3	322.5	353.2	243.5	257.4	277.1	295.4	315.9	336.4
85°	203.3	204.7	244.2	259.6	278.6	163.8	193.0	199.6	214.3	226.0	234.7
87.5°	63.6	68.7	149.2	165.3	160.1	92.9	118.5	121.4	131.6	139.7	147.0
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: P193951
 CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5
2.5°	1393.0	1384.2	1376.2	1375.4	1369.6	1361.6	1364.5	1352.0	1352.8	1346.2	1338.9
5°	1638.0	1632.1	1602.9	1594.8	1572.9	1559.0	1556.8	1527.5	1523.9	1507.1	1488.8
7.5°	1990.4	1971.4	1930.5	1910.7	1873.4	1845.6	1832.5	1793.7	1774.7	1730.8	1711.1
10°	2359.7	2335.6	2285.1	2257.3	2221.5	2176.9	2152.7	2096.4	2074.5	2034.3	1986.0
12.5°	2701.9	2677.8	2625.9	2604.7	2557.1	2509.6	2483.3	2419.6	2391.1	2326.8	2288.8
15°	3018.5	2994.4	2949.1	2927.1	2879.6	2840.8	2805.7	2742.9	2709.2	2649.3	2599.5
17.5°	3325.6	3300.1	3260.6	3240.8	3194.8	3155.3	3117.2	3058.0	3023.6	2963.7	2919.1
20°	3610.8	3591.8	3563.3	3537.0	3490.9	3455.1	3409.7	3358.6	3308.8	3265.0	3222.5
22.5°	3859.4	3852.1	3821.4	3809.7	3770.2	3739.5	3700.0	3649.6	3613.8	3558.2	3518.7
25°	4073.7	4071.5	4056.9	4053.2	4025.4	3996.2	3987.4	3945.7	3912.8	3863.8	3822.9
27.5°	4258.0	4260.2	4256.5	4266.7	4259.4	4246.3	4247.0	4233.1	4214.1	4173.1	4137.3
30°	4462.7	4451.0	4457.6	4472.2	4476.6	4478.1	4502.2	4510.2	4508.8	4481.7	4464.2
32.5°	4752.3	4724.5	4698.9	4696.7	4711.3	4717.2	4758.1	4779.3	4797.6	4804.2	4807.1
35°	5121.6	5066.0	5012.6	4984.1	4959.2	4965.8	4995.1	5029.4	5069.6	5097.4	5130.3
37.5°	5586.6	5518.6	5424.3	5357.0	5340.2	5303.6	5322.6	5349.7	5389.2	5432.3	5489.4
40°	6150.4	6047.3	5941.3	5852.1	5803.8	5736.5	5735.8	5730.7	5754.8	5795.0	5875.5
42.5°	6693.0	6601.6	6489.0	6395.4	6332.5	6242.5	6224.3	6176.7	6187.7	6222.8	6301.0
45°	7201.2	7125.9	7057.1	6948.9	6895.5	6798.3	6767.6	6711.3	6679.8	6695.9	6774.1
47.5°	7693.3	7645.0	7573.4	7503.2	7462.2	7375.2	7335.7	7295.5	7255.3	7253.8	7335.7
50°	8652.7	8627.1	8542.3	8469.1	8488.9	8382.1	8388.7	8280.5	8329.5	8335.3	8507.2
52.5°	9554.3	9643.5	9706.4	9783.2	9832.9	9842.4	9875.3	9924.3	9983.5	10100.5	10259.9
55°	10070.5	10182.4	10247.5	10306.0	10402.5	10423.0	10477.8	10542.9	10594.8	10726.5	10861.7
57.5°	10684.0	10891.7	10992.6	11085.5	11215.6	11265.4	11356.8	11427.7	11495.0	11650.7	11814.5
60°	11062.1	11315.1	11520.6	11667.6	11830.6	11947.6	12085.8	12197.0	12354.9	12541.4	12785.6
62.5°	10761.6	11133.0	11405.8	11658.0	11879.6	12103.4	12301.5	12509.2	12749.0	13031.3	13410.1
65°	9564.5	9942.6	10409.8	10671.6	10964.8	11310.0	11611.2	11947.6	12274.5	12685.4	13245.6
67.5°	7699.9	8139.4	8664.4	8928.4	9265.5	9650.8	9988.6	10399.6	10781.3	11279.3	11971.7
70°	5550.1	6118.2	6559.9	6835.6	7229.0	7626.0	7952.2	8430.4	8746.3	9256.7	9972.6
72.5°	3514.3	3962.6	4503.7	4851.0	5200.5	5602.7	5936.1	6348.6	6643.3	7108.3	7756.9
75°	1889.5	2220.0	2695.3	3025.1	3399.5	3743.2	4133.7	4410.1	4628.0	4995.8	5522.3
77.5°	885.5	1086.6	1327.2	1580.9	1834.7	2099.4	2356.8	2580.5	2674.1	2884.7	3195.5
80°	537.5	602.5	672.7	751.0	857.0	942.6	1055.9	1137.8	1143.6	1210.2	1305.3
82.5°	359.0	383.2	404.4	424.1	451.2	472.4	496.5	525.0	536.7	552.1	582.8
85°	245.0	256.7	261.1	273.5	270.6	277.9	287.4	296.9	302.0	301.3	315.2
87.5°	150.6	156.5	159.4	162.3	160.1	157.2	161.6	166.7	168.2	163.8	165.3
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: P193951

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5
2.5°	1340.3	1333.8	1327.2	1322.8	1321.3	1282.6	1265.8	1254.8	1231.4	1212.4	1197.0
5°	1478.6	1464.7	1453.7	1440.5	1433.2	1335.2	1299.4	1274.5	1233.6	1209.5	1187.5
7.5°	1700.8	1662.1	1639.4	1613.8	1591.9	1414.9	1355.7	1317.0	1259.9	1227.7	1202.9
10°	1953.1	1912.9	1877.1	1837.6	1803.2	1521.0	1434.7	1374.7	1299.4	1257.7	1224.8
12.5°	2234.6	2195.2	2149.8	2099.4	2055.5	1655.5	1535.6	1450.0	1346.9	1291.4	1245.3
15°	2567.4	2497.9	2443.0	2384.6	2333.4	1816.4	1653.3	1534.9	1397.4	1322.1	1260.6
17.5°	2876.7	2803.5	2729.0	2677.8	2618.5	1997.0	1771.8	1621.1	1439.1	1341.8	1263.6
20°	3178.7	3099.0	3034.6	2965.9	2903.7	2184.2	1898.3	1697.2	1466.1	1342.5	1245.3
22.5°	3444.8	3395.1	3323.5	3248.9	3186.0	2371.4	2016.7	1761.5	1476.4	1325.7	1213.1
25°	3747.6	3694.9	3607.2	3544.3	3474.1	2562.2	2133.0	1811.3	1470.5	1294.3	1163.4
27.5°	4070.8	4012.3	3922.3	3856.5	3771.7	2760.4	2239.8	1847.1	1448.6	1243.1	1096.8
30°	4407.9	4354.5	4266.0	4199.5	4113.9	2970.3	2359.0	1871.2	1404.7	1172.2	1019.3
32.5°	4769.8	4725.2	4637.5	4568.0	4476.6	3197.7	2470.1	1878.5	1338.2	1088.1	937.4
35°	5113.5	5082.8	5008.9	4943.9	4848.8	3412.7	2587.8	1874.9	1259.2	995.9	862.9
37.5°	5500.3	5482.1	5445.5	5362.9	5246.6	3704.4	2729.0	1859.5	1162.7	904.5	805.8
40°	5912.7	5914.2	5874.7	5818.4	5710.2	4058.3	2897.1	1829.5	1057.4	824.1	753.9
42.5°	6349.3	6372.0	6353.0	6312.7	6208.9	4415.2	3098.2	1793.0	955.0	745.9	702.7
45°	6849.5	6877.2	6906.5	6847.3	6746.4	4886.1	3362.9	1745.5	844.6	680.8	667.6
47.5°	7426.4	7470.3	7496.6	7497.3	7396.4	5469.6	3792.9	1716.9	746.6	636.9	650.8
50°	8643.9	8657.8	8720.0	8828.2	8750.7	6820.2	4543.9	1699.4	680.0	609.8	638.4
52.5°	10398.1	10551.0	10658.4	10651.1	10545.8	7677.9	4957.8	1608.7	640.6	599.6	632.5
55°	11112.5	11303.4	11502.3	11554.9	11473.0	8409.9	5349.0	1518.0	621.5	606.9	634.7
57.5°	12064.6	12386.4	12659.1	12773.9	12655.4	9346.6	5863.8	1470.5	615.7	626.7	648.6
60°	13176.8	13574.6	13932.9	14139.1	14139.1	10423.0	6397.6	1450.8	607.7	655.9	672.0
62.5°	13891.2	14475.5	15016.6	15318.6	15309.8	11172.5	6634.5	1383.5	589.4	676.4	704.2
65°	13894.2	14588.8	15278.4	15617.7	15635.2	11080.4	6243.3	1221.9	555.7	679.3	736.4
67.5°	12735.9	13476.6	14280.2	14659.8	14747.5	10200.0	5404.5	1004.7	500.9	650.1	748.1
70°	10756.4	11479.6	12300.1	12673.0	12828.7	8695.1	4353.0	774.4	430.7	585.7	723.9
72.5°	8474.3	9183.6	9754.6	10027.4	10148.8	6646.2	3169.9	585.0	353.2	493.6	658.8
75°	5999.8	6532.1	6835.6	6896.3	6915.3	4006.4	1926.1	435.1	291.0	383.9	556.5
77.5°	3386.3	3614.5	3589.6	3616.7	3391.5	1546.6	838.7	311.5	239.8	291.8	431.4
80°	1322.1	1363.0	1280.4	1254.8	1151.0	575.5	370.0	217.2	191.6	220.8	302.0
82.5°	582.8	601.8	584.3	588.6	563.0	296.9	221.6	157.2	146.2	161.6	200.4
85°	321.0	326.9	325.4	334.9	321.0	118.5	105.3	96.5	102.4	109.7	128.7
87.5°	156.5	157.9	152.8	160.9	155.8	60.0	51.9	54.8	60.0	61.4	61.4
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: P193951
 CATALOG NUMBER: GLEON-AF-03-LED-E1-T2R-8030

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	1255.5	1255.5	1255.5	1255.5	1255.5	1255.5
2.5°	1186.1	1180.2	1180.9	1179.5	1176.6	1176.6
5°	1175.8	1170.0	1170.0	1168.5	1164.9	1165.6
7.5°	1186.1	1176.6	1172.9	1167.8	1162.7	1162.7
10°	1197.8	1180.9	1170.7	1161.9	1155.3	1155.3
12.5°	1206.5	1180.2	1163.4	1151.7	1145.1	1145.1
15°	1209.5	1175.1	1151.7	1137.8	1131.9	1131.2
17.5°	1200.0	1155.3	1126.8	1110.7	1103.4	1101.2
20°	1170.7	1119.5	1085.1	1066.9	1056.6	1053.0
22.5°	1126.8	1068.3	1028.1	1009.1	995.9	993.7
25°	1065.4	1002.5	963.0	944.8	937.4	935.2
27.5°	993.7	935.2	901.6	889.9	883.3	882.6
30°	925.7	876.0	851.2	842.4	834.3	832.9
32.5°	862.1	830.7	821.2	808.7	789.7	787.5
35°	816.8	813.9	807.3	779.5	756.1	749.5
37.5°	789.0	816.1	782.4	727.6	710.8	709.3
40°	772.9	793.4	735.6	716.6	718.1	716.6
42.5°	736.4	757.6	737.1	728.3	734.2	735.6
45°	699.8	723.2	748.1	742.2	756.1	756.1
47.5°	679.3	714.4	747.3	747.3	767.8	775.1
50°	655.9	707.1	735.6	745.9	761.9	756.1
52.5°	654.5	694.7	718.8	737.1	744.4	737.8
55°	656.6	684.4	702.0	722.5	731.2	732.0
57.5°	659.6	678.6	690.3	699.8	726.1	726.1
60°	666.9	673.5	680.0	685.2	719.5	720.3
62.5°	678.6	668.3	666.9	672.0	715.9	713.0
65°	696.9	661.0	650.1	655.2	712.2	703.4
67.5°	721.7	650.1	628.9	632.5	709.3	690.3
70°	744.4	632.5	602.5	598.9	681.5	647.9
72.5°	746.6	612.0	566.0	555.0	592.3	560.1
75°	710.0	598.1	525.8	493.6	489.2	484.8
77.5°	639.8	590.1	479.0	428.5	419.7	422.7
80°	535.3	560.1	422.7	362.7	410.2	405.1
82.5°	400.0	494.3	359.0	321.0	320.3	283.0
85°	222.3	385.4	292.5	240.6	167.5	162.3
87.5°	62.2	214.3	204.7	136.0	92.9	96.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)