

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: P193031

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193031
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-03-LED-E1-SLL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 15446 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

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



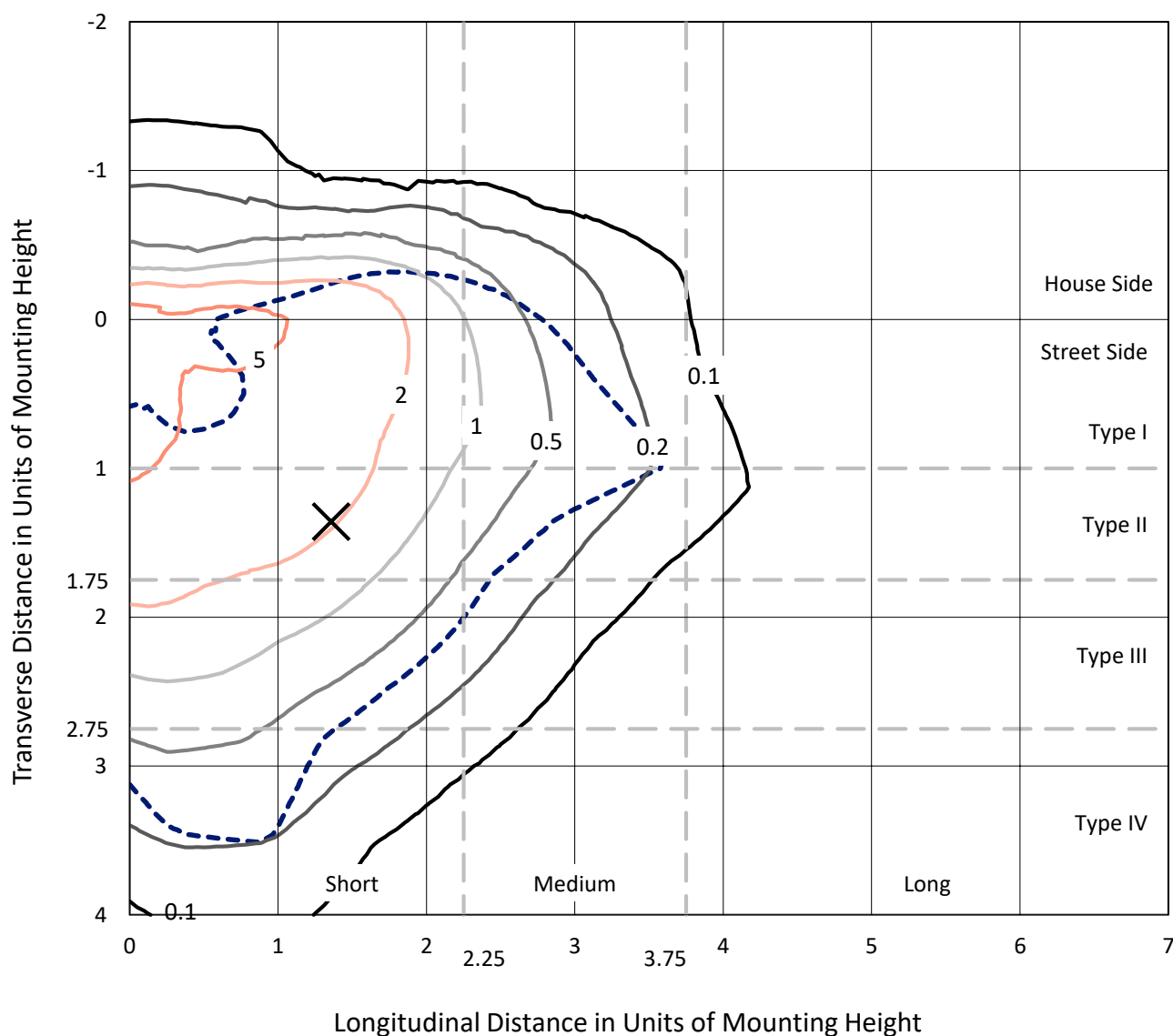
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

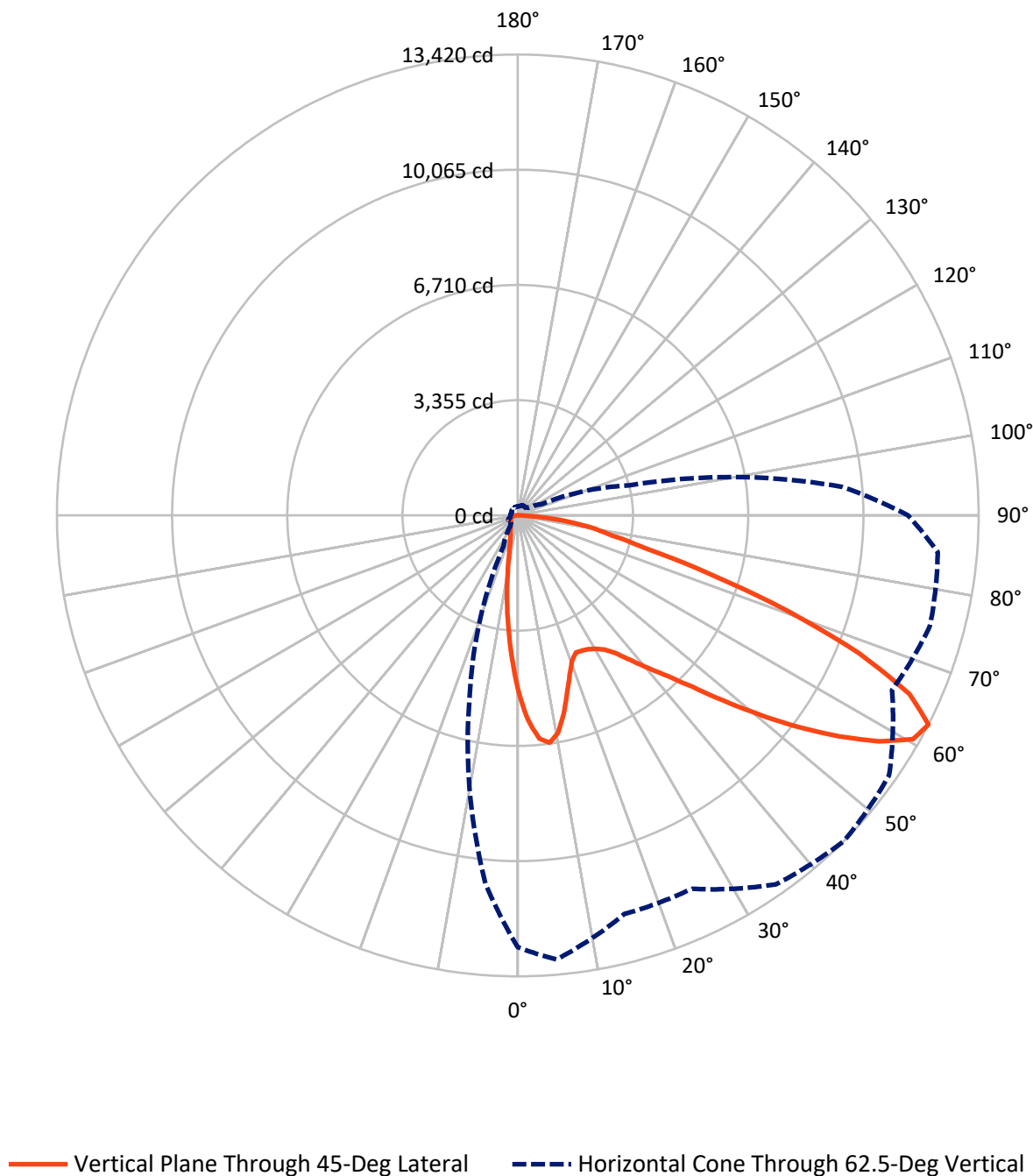


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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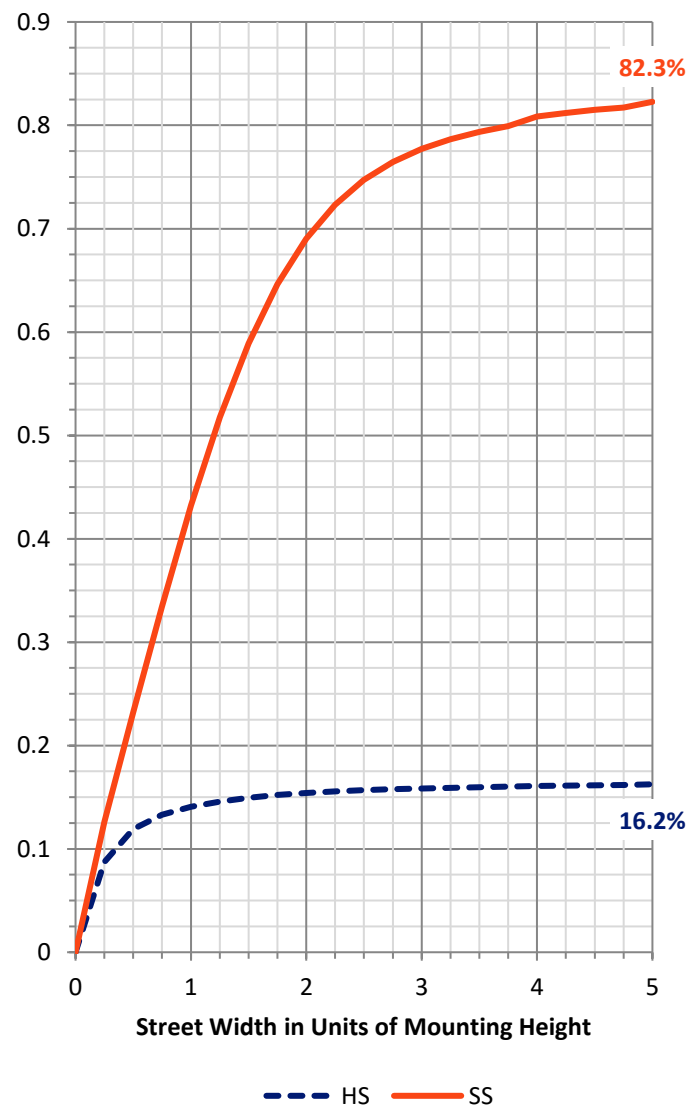
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.1	0.0	2556.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12889.9	0.0	12889.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	15446.0	0.0	15446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.9	2.5
10°-20°	696.6	4.5
20°-30°	1015.6	6.6
30°-40°	1564.2	10.1
40°-50°	2302.1	14.9
50°-60°	3376.8	21.9
60°-70°	3774.7	24.4
70°-80°	1848.1	12.0
80°-90°	487.9	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°	15446.0	100.0
0°-180°	15446.0	100.0

Coefficient of Utilization



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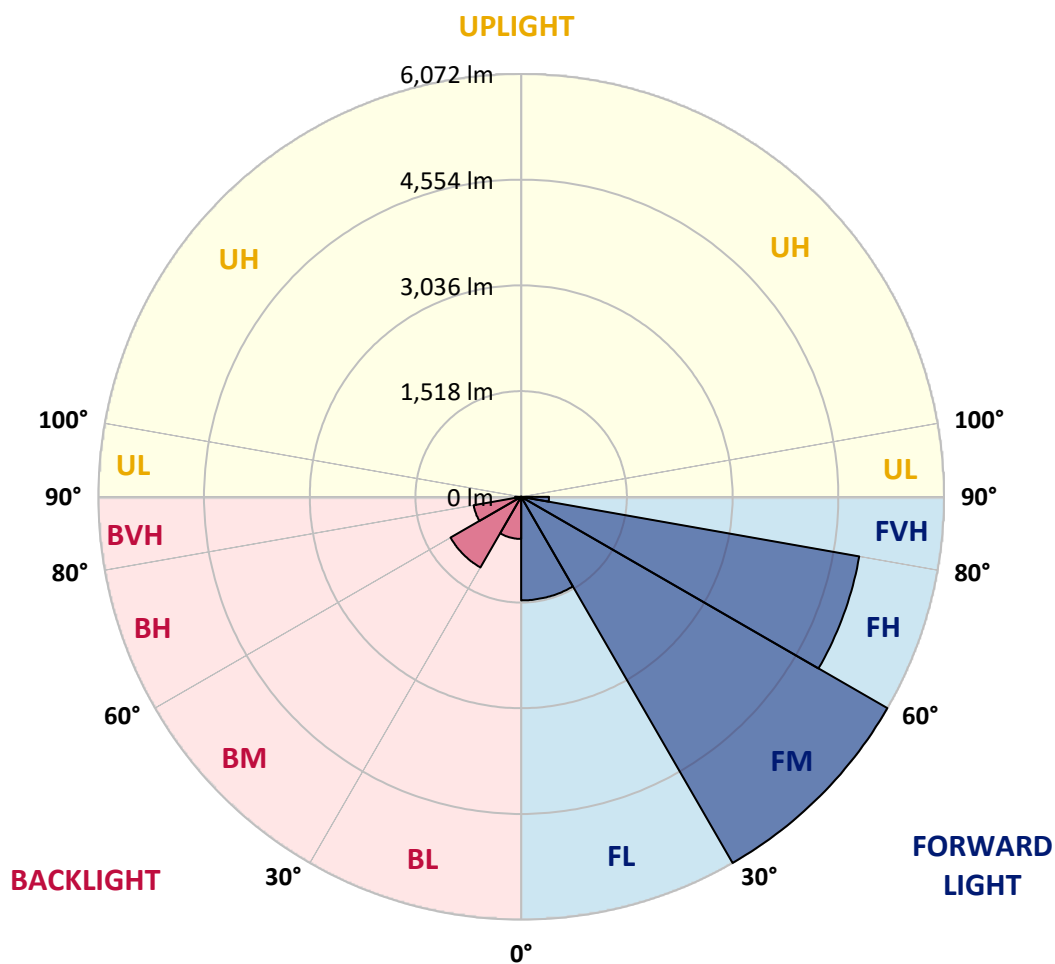
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1487.4	9.6			
FM	(30°-60°)	6072.0	39.3			
FH	(60°-80°)	4929.8	31.9			G2/5000
FVH	(80°-90°)	400.7	2.6			G3/500
BL	(0°-30°)	604.7	3.9	B2/1000		
BM	(30°-60°)	1171.2	7.6	B2/2500		
BH	(60°-80°)	693.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	87.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4
2.5°	5422.3	5508.9	5677.8	5804.4	5958.0	5993.8	6042.9	5994.5	5908.7	5795.0	5757.6
5°	5098.8	5283.9	5693.9	6054.8	6375.9	6525.2	6566.8	6443.7	6194.9	5868.0	5668.5
7.5°	4579.9	4843.1	5398.5	5930.0	6402.9	6682.3	6675.5	6389.4	5931.6	5399.4	5079.3
10°	4132.5	4433.0	5069.8	5664.2	6166.0	6436.9	6332.4	5966.5	5420.6	4807.5	4460.3
12.5°	3882.0	4176.7	4822.8	5419.7	5839.2	5932.6	5852.8	5494.4	4979.9	4360.1	4056.0
15°	3838.8	4162.2	4724.4	5210.0	5445.2	5363.6	5268.6	5108.1	4744.7	4215.7	3899.0
17.5°	4026.3	4382.9	4837.2	5063.9	5024.1	4882.2	4855.1	4872.9	4785.4	4376.2	4011.1
20°	4386.4	4814.3	5106.4	4995.3	4703.9	4508.7	4515.4	4788.0	5047.0	4783.0	4366.0
22.5°	4891.5	5379.8	5494.4	5031.7	4568.9	4337.1	4393.2	4834.7	5463.8	5377.3	4844.9
25°	5545.4	5990.3	5907.9	5164.1	4582.6	4358.4	4403.3	4996.0	5956.4	5971.7	5437.5
27.5°	6178.8	6591.5	6255.2	5339.9	4638.6	4408.5	4467.9	5249.9	6426.7	6617.0	6115.1
30°	6673.0	6960.0	6392.8	5500.3	4749.0	4506.1	4579.9	5491.1	6640.7	7052.4	6636.4
32.5°	7082.1	7288.5	6611.9	5699.1	4951.8	4659.8	4789.7	5783.9	6948.9	7466.9	7146.7
35°	7605.3	7663.9	6884.4	5920.6	5265.2	4927.3	5088.5	6071.0	7242.7	7885.5	7649.5
37.5°	8218.3	8142.8	7141.6	6223.9	5670.2	5345.8	5479.2	6385.9	7484.7	8360.1	8163.1
40°	8824.6	8642.9	7464.3	6694.2	6261.2	5839.2	5997.1	6722.1	7710.5	8835.6	8665.0
42.5°	9339.9	9070.8	7782.7	7211.3	6811.3	6383.5	6572.0	7061.0	7926.2	9241.4	9100.5
45°	9721.3	9386.7	8085.8	7708.0	7569.6	7106.9	7196.1	7449.1	8159.7	9580.3	9458.8
47.5°	10061.6	9704.2	8429.0	8208.9	8232.8	8047.6	7904.2	7900.7	8434.9	9857.1	9797.6
50°	10517.7	10144.8	8797.3	8725.2	9227.8	9104.8	8788.0	8428.0	8783.0	10171.2	10164.4
52.5°	11146.0	10842.8	9247.3	9281.3	10156.7	10237.5	9845.2	9061.4	9328.0	10747.8	10707.0
55°	11888.9	11712.3	9860.4	9920.7	11296.2	11354.0	10964.2	9853.6	10129.7	11582.3	11469.5
57.5°	12468.8	12431.5	10532.9	10688.3	12147.0	12406.8	12048.6	10770.7	11033.0	12285.4	12001.8
60°	12699.7	12880.7	11248.7	11462.7	12934.1	13222.0	12907.8	11576.4	11833.8	12576.7	11965.3
62.5°	12574.9	12979.1	12011.2	11993.4	13109.9	13419.8	13199.1	12024.7	12427.2	12276.1	11359.9
65°	11998.5	12625.0	12453.6	11856.6	12508.8	12534.2	12462.8	11824.4	12567.3	11326.0	10189.8
67.5°	10742.6	11644.5	11871.1	10684.9	10887.0	10721.4	10601.7	10727.4	11837.1	9902.0	8563.8
70°	8749.8	10106.7	10215.3	8546.0	8454.4	8343.1	8104.6	8794.9	10396.2	8115.6	6795.3
72.5°	6433.5	7860.0	8193.7	6267.9	5843.4	5866.3	5677.8	6628.0	8452.7	6028.5	5073.4
75°	4401.6	5691.5	6410.6	4373.6	3864.2	3873.6	3849.7	4696.3	6732.4	4193.6	3796.2
77.5°	3215.5	4066.3	4834.7	2940.3	2854.6	2802.0	2789.3	3286.0	5161.6	3044.8	2948.1
80°	2580.3	3004.1	3247.7	2037.8	2191.5	2187.3	2116.8	2259.4	3370.8	2227.1	2205.1
82.5°	1789.8	2308.6	2631.3	1597.2	1479.2	1454.5	1471.5	1682.9	2382.5	1522.4	1447.6
85°	944.2	1533.5	2605.9	1415.5	878.0	700.5	871.2	1378.1	2064.1	806.7	706.5
87.5°	120.6	443.3	1725.3	564.7	346.5	186.9	413.5	776.1	1325.5	164.8	143.4
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°	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4
2.5°	5661.7	5548.7	5401.0	5264.3	5122.5	4981.5	4797.3	4681.9	4602.0	4586.8	4552.9
5°	5524.1	5148.9	4865.4	4619.9	4397.4	4083.2	3909.2	3764.8	3687.6	3680.0	3661.3
7.5°	4889.9	4371.9	3989.0	3641.7	3326.7	3072.8	2792.6	2661.9	2608.3	2621.1	2633.9
10°	4230.2	3651.1	3211.2	2856.4	2578.6	2364.7	2139.8	1987.8	1882.4	1861.2	1857.0
12.5°	3747.9	3112.8	2685.7	2435.2	2220.3	2019.1	1780.5	1601.4	1464.6	1417.9	1386.6
15°	3544.1	2849.5	2402.1	2132.0	1895.2	1639.6	1417.9	1230.4	1104.6	1063.8	1041.0
17.5°	3587.4	2776.5	2206.8	1861.2	1558.0	1291.5	1012.1	851.6	776.1	756.5	756.5
20°	3814.9	2762.9	2045.5	1611.6	1233.7	924.7	695.4	603.6	579.1	576.6	583.3
22.5°	4134.2	2810.4	1924.9	1395.0	958.6	675.0	541.7	507.7	496.7	499.4	506.9
25°	4609.6	2971.0	1837.4	1202.3	752.2	552.8	483.2	462.7	457.7	464.5	473.7
27.5°	5173.5	3131.5	1783.1	1057.1	635.2	505.3	459.3	438.1	441.5	450.0	458.6
30°	5668.5	3263.0	1697.4	953.5	598.6	507.7	459.3	430.5	427.1	428.9	431.3
32.5°	6112.6	3352.2	1597.2	855.1	516.2	450.9	428.9	424.6	405.9	399.2	399.9
35°	6495.5	3352.2	1536.8	797.3	462.7	399.9	364.3	343.1	333.7	334.6	343.8
37.5°	6864.9	3285.1	1507.1	765.1	433.9	380.4	349.0	330.3	317.5	315.0	316.8
40°	7190.9	3187.4	1473.2	751.4	411.8	368.5	338.8	323.5	310.0	305.7	306.5
42.5°	7452.5	3108.5	1435.7	733.5	398.2	360.0	332.0	318.4	303.0	298.9	298.1
45°	7735.2	3082.2	1386.6	697.9	405.1	360.9	330.3	315.9	300.6	295.4	293.8
47.5°	8107.9	3164.5	1335.5	655.4	419.4	365.2	332.8	315.9	299.7	295.4	293.8
50°	8577.5	3358.1	1271.1	593.5	405.1	377.0	332.0	313.3	299.7	295.4	292.0
52.5°	9180.3	3619.6	1186.2	522.1	396.5	405.9	330.3	308.2	295.4	289.5	283.6
55°	9913.1	3833.6	1085.2	463.6	377.0	398.2	327.8	302.3	288.7	280.2	275.2
57.5°	10449.7	3910.9	955.3	425.3	349.8	385.4	324.4	294.7	280.2	273.3	266.6
60°	10343.6	3761.5	845.6	401.6	333.7	348.1	321.8	287.8	272.6	267.4	261.5
62.5°	9493.6	3370.8	775.2	390.6	323.5	317.5	324.4	281.1	265.7	260.7	259.0
65°	8219.1	2794.3	747.3	388.0	315.0	299.7	301.4	273.3	258.1	253.9	252.2
67.5°	6780.0	2255.2	722.5	396.5	304.0	287.1	278.5	263.2	250.5	246.3	242.9
70°	5346.7	1875.7	711.5	391.4	290.4	274.2	265.0	252.2	241.1	236.9	234.4
72.5°	4305.7	1584.4	705.6	386.3	272.6	257.3	248.8	237.7	225.8	224.2	221.6
75°	3643.5	1245.5	646.2	370.2	252.2	236.9	231.0	220.8	208.9	208.9	207.1
77.5°	2810.4	900.9	537.4	327.8	231.0	213.9	208.9	201.2	187.6	190.2	189.3
80°	2076.0	587.6	420.3	271.7	204.7	188.5	186.0	178.3	163.9	167.2	167.2
82.5°	1422.2	385.4	302.3	222.5	175.0	159.6	159.6	152.0	135.8	137.5	142.7
85°	714.1	265.0	225.8	172.4	135.8	128.2	128.2	122.3	106.1	107.0	113.7
87.5°	217.3	159.6	149.4	123.1	97.7	95.9	91.7	87.4	77.2	76.4	80.7
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°	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4
2.5°	4501.1	4452.7	4394.0	4264.9	4221.7	4219.1	4258.2	4217.4	4295.5	4262.4	4299.0
5°	3629.8	3582.3	3516.9	3352.2	3252.0	3184.1	3151.8	3056.7	3125.5	3075.4	3116.9
7.5°	2669.5	2680.5	2637.3	2540.5	2322.3	2212.7	2148.1	2090.4	2140.5	2135.5	2215.2
10°	1876.5	1906.2	1875.7	1777.9	1601.4	1541.1	1553.0	1575.9	1641.3	1675.3	1798.4
12.5°	1350.9	1349.3	1329.6	1242.2	1125.9	1132.7	1181.1	1221.0	1281.3	1316.9	1442.5
15°	1008.7	993.3	985.0	913.6	847.5	861.8	885.5	889.8	928.0	949.3	1051.2
17.5°	762.5	770.2	779.4	728.5	678.4	669.1	650.4	627.4	638.5	642.8	693.7
20°	605.4	636.0	659.0	623.3	572.3	545.1	521.3	506.1	506.1	505.3	519.6
22.5°	529.1	551.1	575.7	551.1	505.3	481.4	467.8	455.9	454.3	454.3	467.8
25°	487.4	503.4	527.2	510.4	476.4	458.6	445.8	430.5	424.6	422.9	432.2
27.5°	467.0	473.7	485.6	470.4	441.5	433.0	429.6	416.1	408.4	404.2	413.5
30°	432.2	430.5	431.3	416.1	393.2	392.2	398.2	400.8	398.2	397.3	411.8
32.5°	399.9	396.5	395.6	382.1	360.9	355.7	360.9	365.9	371.9	380.4	397.3
35°	359.1	367.6	372.8	360.9	335.4	320.1	314.1	304.9	299.7	299.7	319.2
37.5°	326.9	346.5	354.1	343.1	315.0	293.8	283.6	281.9	282.8	286.2	304.9
40°	315.9	330.3	337.1	326.0	298.1	278.5	272.6	270.9	272.6	277.6	296.3
42.5°	309.1	319.2	318.4	304.9	281.9	268.3	265.0	263.2	265.0	270.0	290.4
45°	303.0	310.0	303.0	287.1	265.7	259.0	259.8	259.0	260.7	265.7	285.2
47.5°	298.1	300.6	292.0	276.0	253.9	252.2	255.5	258.1	259.8	264.1	284.4
50°	290.4	290.4	282.8	265.7	243.6	244.5	248.8	254.7	255.5	260.7	276.8
52.5°	281.1	280.2	275.2	259.0	235.2	237.7	237.7	244.5	246.3	252.2	269.3
55°	273.3	271.7	269.3	253.9	227.6	231.8	229.2	231.8	236.0	242.0	260.7
57.5°	266.6	263.2	263.2	249.6	221.6	223.3	217.3	220.8	225.8	231.0	250.5
60°	259.8	256.4	258.1	243.6	212.3	210.6	208.0	214.8	216.6	222.5	242.0
62.5°	252.2	249.6	250.5	236.9	205.5	201.2	201.2	207.1	208.0	216.6	235.2
65°	246.3	242.9	242.0	230.1	197.9	192.8	195.2	197.9	199.5	208.0	225.8
67.5°	240.3	233.5	233.5	224.2	189.3	184.2	189.3	188.5	191.1	198.7	213.2
70°	232.6	223.3	224.2	219.9	180.9	175.0	179.1	178.3	180.1	185.0	199.5
72.5°	220.8	213.2	214.8	213.2	172.4	163.9	165.5	165.5	165.5	169.8	185.0
75°	205.5	199.5	204.7	208.9	162.1	150.3	152.0	152.0	149.4	152.0	170.7
77.5°	186.9	183.4	200.4	194.5	150.3	135.8	135.8	134.2	129.0	132.4	152.9
80°	166.4	163.9	185.0	163.1	136.7	118.0	116.4	112.1	107.0	109.5	129.9
82.5°	145.2	142.7	155.3	124.8	118.0	97.7	93.4	85.8	80.7	83.2	101.9
85°	118.9	118.9	119.7	94.3	90.0	74.8	69.6	59.4	53.5	55.1	72.9
87.5°	84.9	87.4	80.7	64.6	53.5	41.6	38.2	32.2	27.2	31.4	38.2
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: P193031

CATALOG NUMBER: GLEON-AF-03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4	5218.4
2.5°	4485.7	4579.2	4685.2	4821.1	4937.4	5128.5	5311.8	5422.3
5°	3353.9	3509.3	3702.9	3951.7	4183.4	4531.5	4877.2	5098.8
7.5°	2400.3	2566.8	2775.6	3086.5	3414.2	3858.3	4315.0	4579.9
10°	1986.0	2156.7	2332.4	2542.1	2810.4	3293.6	3833.6	4132.5
12.5°	1642.9	1825.5	2014.8	2235.7	2484.4	2915.8	3538.2	3882.0
15°	1257.5	1461.3	1684.6	1963.9	2275.6	2774.0	3465.1	3838.8
17.5°	861.8	1089.5	1363.7	1708.4	2089.6	2728.1	3595.8	4026.3
20°	593.5	759.2	1052.0	1456.2	1914.7	2722.2	3847.2	4386.4
22.5°	496.7	570.6	784.6	1224.4	1783.1	2795.2	4237.0	4891.5
25°	459.3	503.4	626.6	1023.1	1687.2	2963.3	4773.5	5545.4
27.5°	437.2	477.1	568.9	891.5	1611.6	3158.5	5295.8	6178.8
30°	445.8	486.5	552.8	824.5	1508.9	3321.6	5759.4	6673.0
32.5°	401.6	419.4	473.7	765.1	1434.9	3458.3	6165.2	7082.1
35°	342.2	373.5	422.9	737.0	1436.6	3550.1	6607.6	7605.3
37.5°	326.0	357.5	393.2	726.8	1456.2	3647.6	7115.3	8218.3
40°	315.9	344.7	375.3	720.9	1474.9	3736.7	7612.8	8824.6
42.5°	309.1	335.4	373.5	700.5	1484.2	3816.7	8022.2	9339.9
45°	308.2	335.4	380.4	680.1	1498.6	3902.4	8365.2	9721.3
47.5°	309.1	346.5	367.6	655.4	1498.6	4045.9	8767.6	10061.6
50°	305.7	365.2	354.1	620.7	1463.8	4317.6	9319.6	10517.7
52.5°	304.0	362.5	327.8	567.2	1403.6	4749.0	10026.8	11146.0
55°	299.7	349.8	309.1	487.4	1333.1	5219.4	10784.2	11888.9
57.5°	295.4	310.0	298.9	417.7	1224.4	5550.5	11305.6	12468.8
60°	331.2	270.9	290.4	383.8	1079.2	5641.4	11285.2	12699.7
62.5°	306.5	253.9	279.3	376.2	977.4	5386.6	10763.9	12574.9
65°	240.3	242.9	268.3	398.2	950.1	4711.6	9840.1	11998.5
67.5°	219.9	231.8	257.3	426.2	952.6	3772.5	8459.4	10742.6
70°	207.1	219.9	244.5	440.7	959.6	2812.3	6688.3	8749.8
72.5°	192.8	203.8	230.1	443.3	915.3	2042.9	5154.9	6433.5
75°	175.8	186.0	209.8	386.3	758.3	1417.1	3943.1	4401.6
77.5°	156.2	163.9	184.2	298.1	562.9	906.9	2960.0	3215.5
80°	133.3	137.5	154.5	218.2	385.4	567.2	2341.8	2580.3
82.5°	107.0	108.7	119.7	163.9	250.5	364.3	1568.3	1789.8
85°	75.6	75.6	82.4	118.9	170.7	231.0	851.6	944.2
87.5°	35.6	36.5	36.5	65.3	89.1	117.1	196.1	120.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)