

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: P193012

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193012
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 13446.5 lumens
Efficiency: N/A
Efficacy: 104.2 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): 129
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



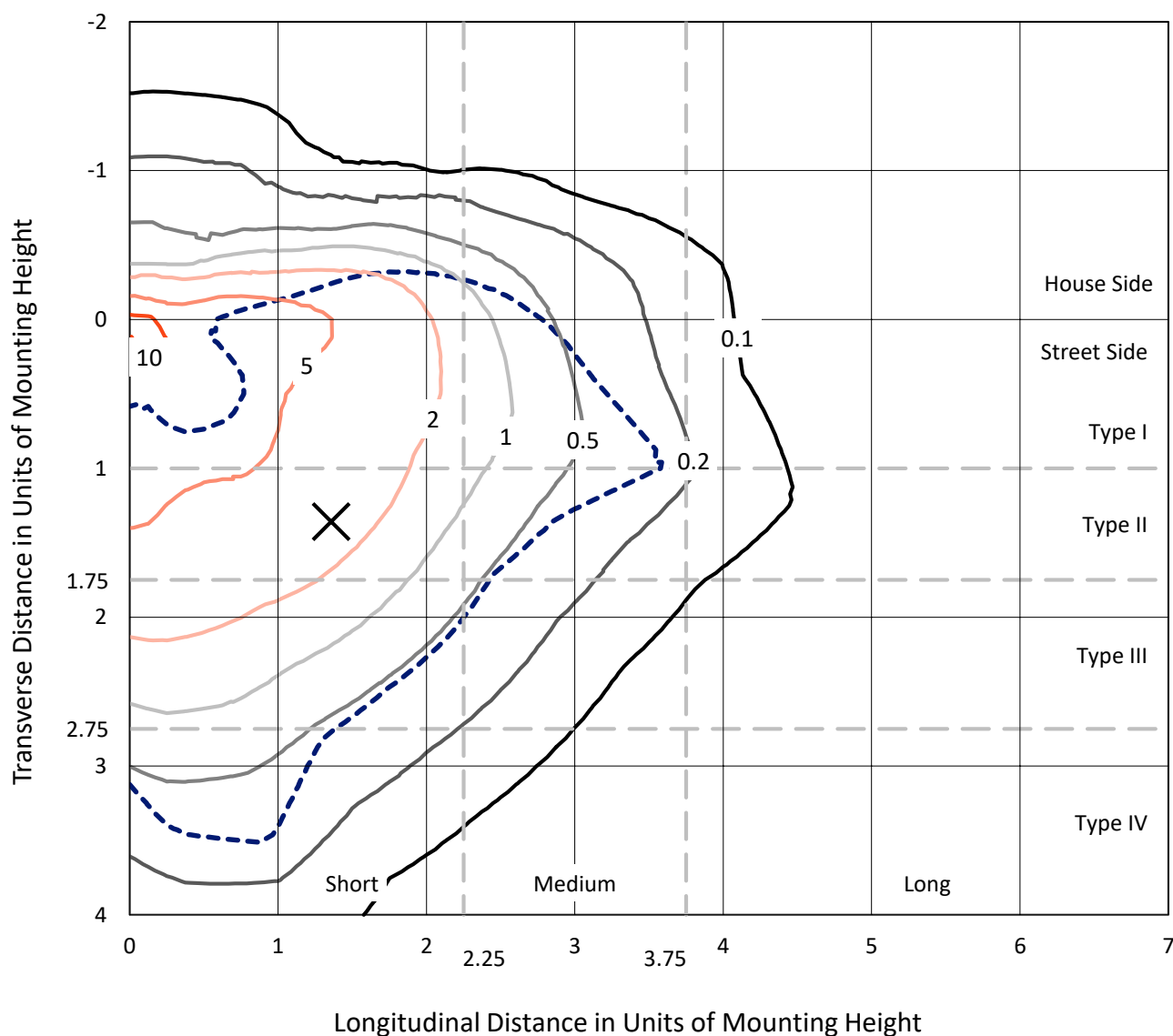
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

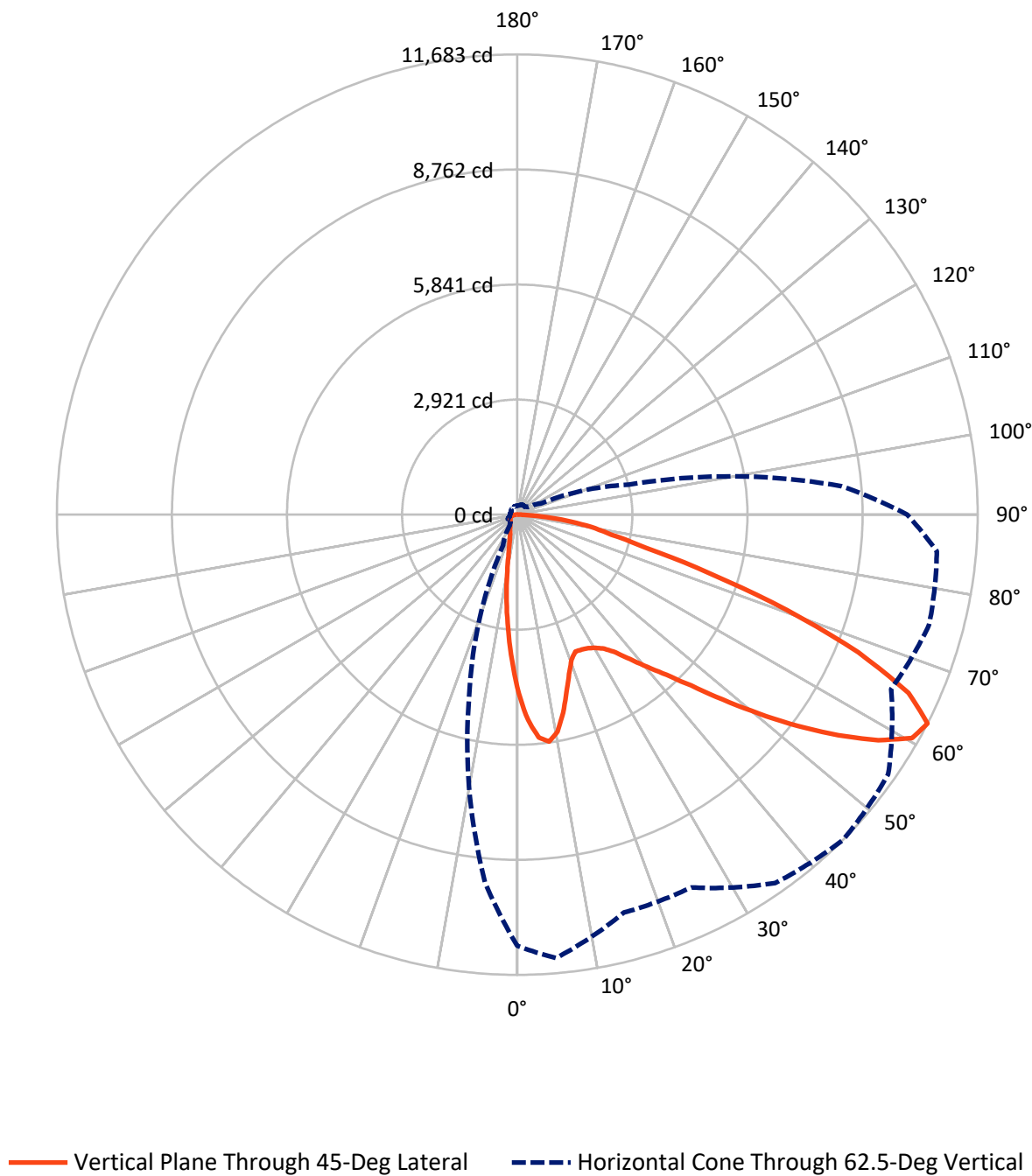


Based on 20 foot mounting height. Maximum calculated value = 13.4 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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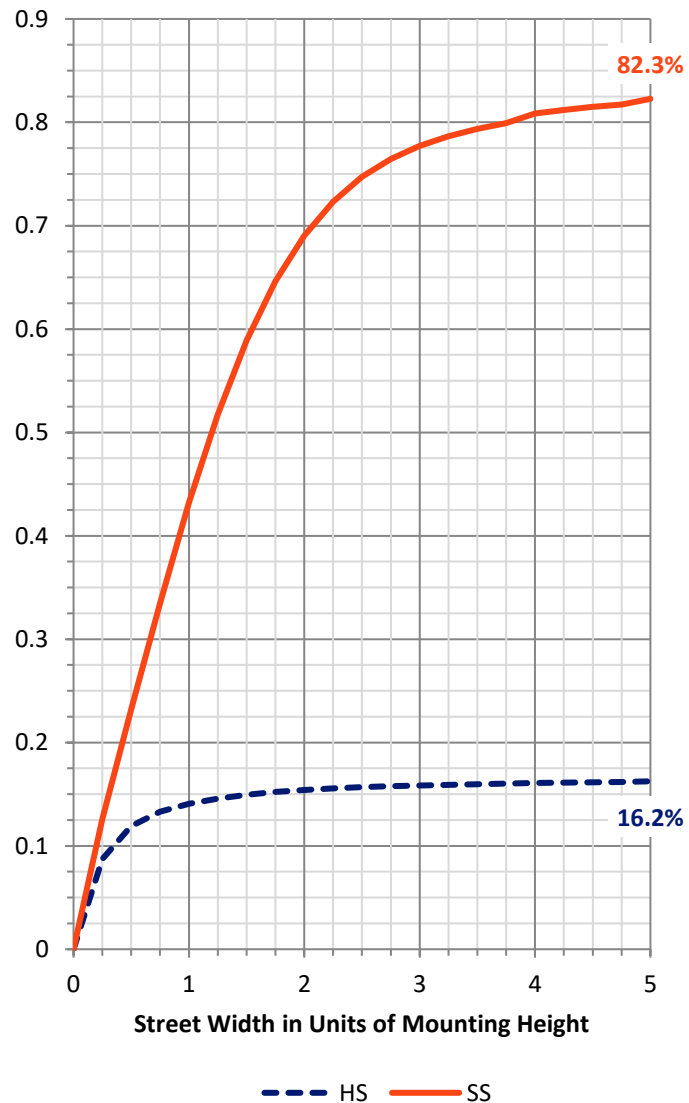
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.2	0.0	2225.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11221.3	0.0	11221.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	13446.5	0.0	13446.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.7	2.5
10°-20°	606.4	4.5
20°-30°	884.2	6.6
30°-40°	1361.8	10.1
40°-50°	2004.1	14.9
50°-60°	2939.6	21.9
60°-70°	3286.1	24.4
70°-80°	1608.8	12.0
80°-90°	424.8	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°	13446.5	100.0
0°-180°	13446.5	100.0

Coefficient of Utilization



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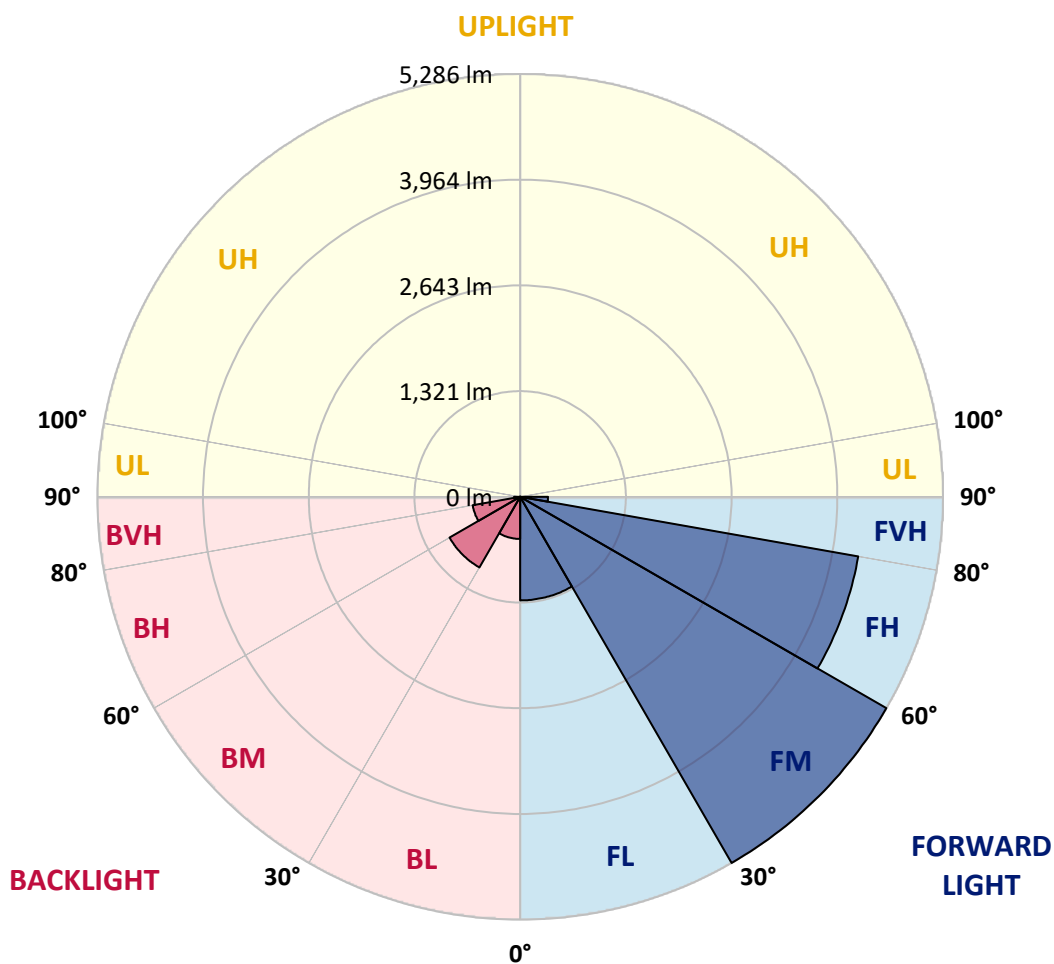
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1294.9	9.6			
FM	(30°-60°)	5286.0	39.3			
FH	(60°-80°)	4291.7	31.9			G2/5000
FVH	(80°-90°)	348.8	2.6			G3/500
BL	(0°-30°)	526.5	3.9	B2/1000		
BM	(30°-60°)	1019.6	7.6	B2/2500		
BH	(60°-80°)	603.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	75.9	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°	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0
2.5°	4720.3	4795.7	4942.9	5053.0	5186.7	5217.7	5260.8	5218.6	5143.9	5044.8	5012.4
5°	4438.7	4600.0	4956.9	5271.1	5550.5	5680.6	5716.8	5609.6	5393.0	5108.4	4934.7
7.5°	3987.1	4216.2	4699.7	5162.4	5574.1	5817.3	5811.4	5562.3	5163.9	4700.5	4421.7
10°	3597.6	3859.2	4413.6	4931.0	5367.9	5603.7	5512.7	5194.1	4718.9	4185.1	3882.8
12.5°	3379.5	3636.0	4198.5	4718.2	5083.3	5164.5	5095.1	4783.2	4335.3	3795.6	3531.0
15°	3341.8	3623.5	4112.7	4535.6	4740.3	4669.4	4586.6	4446.9	4130.5	3670.0	3394.2
17.5°	3505.1	3815.7	4211.1	4408.4	4373.6	4250.3	4226.5	4242.1	4165.9	3809.7	3491.8
20°	3818.6	4191.0	4445.4	4348.5	4095.0	3925.0	3930.9	4168.2	4393.7	4163.8	3800.8
22.5°	4258.4	4683.4	4783.2	4380.3	3977.5	3775.7	3824.5	4208.8	4756.6	4681.2	4217.7
25°	4827.5	5214.8	5143.2	4495.7	3989.3	3794.1	3833.4	4349.3	5185.3	5198.7	4733.6
27.5°	5379.0	5738.2	5445.5	4648.7	4038.1	3837.8	3889.5	4570.4	5594.8	5760.3	5323.5
30°	5809.2	6059.0	5565.2	4788.4	4134.2	3922.9	3987.1	4780.2	5781.1	6139.6	5777.4
32.5°	6165.5	6345.1	5756.0	4961.4	4310.9	4056.6	4169.7	5035.2	6049.3	6500.3	6221.7
35°	6620.8	6671.8	5993.2	5154.3	4583.7	4289.4	4429.9	5285.1	6305.2	6864.8	6659.3
37.5°	7154.6	7088.6	6217.2	5418.1	4936.3	4653.8	4769.9	5559.3	6515.7	7277.9	7106.4
40°	7682.2	7524.0	6498.0	5827.7	5450.6	5083.3	5220.7	5852.0	6712.5	7691.9	7543.3
42.5°	8131.0	7896.6	6775.2	6277.8	5929.6	5557.2	5721.3	6146.9	6900.2	8045.2	7922.5
45°	8462.7	8171.6	7039.1	6710.2	6589.8	6187.0	6264.5	6484.7	7103.5	8340.1	8234.5
47.5°	8759.2	8448.0	7337.8	7146.3	7167.1	7005.9	6880.9	6878.0	7343.0	8581.1	8529.4
50°	9156.2	8831.7	7658.6	7595.7	8033.4	7926.2	7650.5	7337.1	7646.1	8854.6	8848.7
52.5°	9703.1	9439.2	8050.3	8079.9	8842.1	8912.2	8570.8	7888.5	8120.5	9356.4	9321.0
55°	10349.9	10196.2	8584.1	8636.5	9834.0	9884.2	9545.0	8578.2	8818.4	10083.1	9984.7
57.5°	10854.8	10822.2	9169.5	9304.7	10574.6	10800.9	10488.9	9376.4	9604.9	10695.1	10448.3
60°	11055.8	11213.3	9792.6	9978.8	11259.8	11510.5	11236.9	10077.8	10301.8	10948.7	10416.4
62.5°	10947.1	11299.0	10456.3	10440.9	11412.9	11682.6	11490.5	10468.2	10818.6	10686.9	9889.4
65°	10445.3	10990.8	10841.5	10321.8	10889.6	10911.7	10849.6	10293.8	10940.5	9859.9	8870.9
67.5°	9352.0	10137.1	10334.4	9301.8	9477.7	9333.6	9229.3	9338.7	10304.8	8620.2	7455.3
70°	7617.2	8798.4	8893.0	7439.8	7359.9	7263.1	7055.4	7656.4	9050.5	7065.0	5915.7
72.5°	5600.7	6842.6	7133.0	5456.6	5087.0	5107.0	4942.9	5770.0	7358.5	5248.2	4416.6
75°	3831.8	4954.7	5580.8	3807.4	3364.0	3372.1	3351.4	4088.4	5860.8	3650.8	3304.9
77.5°	2799.2	3539.9	4208.8	2559.7	2485.1	2439.3	2428.2	2860.6	4493.4	2650.6	2566.4
80°	2246.4	2615.2	2827.3	1774.1	1907.7	1904.1	1842.7	1967.0	2934.4	1938.8	1919.6
82.5°	1558.1	2009.9	2290.7	1390.5	1287.6	1266.2	1280.9	1465.0	2074.1	1325.4	1260.3
85°	821.9	1334.9	2268.5	1232.2	764.3	609.7	758.4	1199.6	1797.0	702.2	615.0
87.5°	105.0	385.8	1502.0	491.5	301.5	162.6	360.0	675.7	1153.9	143.3	124.9
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°	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0
2.5°	4928.8	4830.5	4701.9	4582.9	4459.4	4336.7	4176.3	4075.8	4006.3	3993.0	3963.5
5°	4809.0	4482.4	4235.4	4021.9	3828.2	3554.6	3403.2	3277.4	3210.2	3203.6	3187.3
7.5°	4256.8	3806.0	3472.6	3170.2	2896.1	2675.1	2431.1	2317.3	2270.7	2281.9	2293.0
10°	3682.6	3178.5	2795.5	2486.6	2244.8	2058.6	1862.8	1730.4	1638.8	1620.4	1616.6
12.5°	3262.7	2709.8	2338.0	2119.9	1932.9	1757.8	1550.1	1394.0	1275.0	1234.4	1207.1
15°	3085.3	2480.6	2091.1	1856.1	1649.9	1427.4	1234.4	1071.1	961.7	926.2	906.2
17.5°	3122.9	2417.2	1921.1	1620.4	1356.4	1124.3	881.0	741.5	675.7	658.7	658.7
20°	3321.2	2405.3	1780.7	1403.0	1074.0	804.9	605.4	525.5	504.1	501.9	507.8
22.5°	3599.0	2446.7	1675.7	1214.4	834.5	587.6	471.6	442.1	432.4	434.7	441.3
25°	4013.0	2586.3	1599.5	1046.7	654.9	481.2	420.5	402.8	398.5	404.4	412.5
27.5°	4503.7	2726.1	1552.2	920.3	552.9	439.8	399.9	381.5	384.4	391.8	399.2
30°	4934.7	2840.6	1477.6	830.1	521.1	442.1	399.9	374.8	371.8	373.2	375.6
32.5°	5321.4	2918.2	1390.5	744.4	449.4	392.5	373.2	369.7	353.4	347.5	348.1
35°	5654.7	2918.2	1337.9	694.2	402.8	348.1	317.1	298.6	290.5	291.2	299.4
37.5°	5976.3	2859.9	1311.9	666.1	377.7	331.2	303.8	287.6	276.4	274.2	275.7
40°	6260.1	2774.8	1282.4	654.1	358.5	320.7	294.9	281.7	269.8	266.1	266.8
42.5°	6487.7	2706.2	1249.9	638.6	346.7	313.3	289.0	277.2	263.9	260.1	259.5
45°	6733.8	2683.2	1207.1	607.6	352.6	314.1	287.6	275.0	261.6	257.2	255.7
47.5°	7058.3	2754.9	1162.7	570.7	365.2	317.8	289.7	275.0	260.9	257.2	255.7
50°	7467.1	2923.4	1106.6	516.7	352.6	328.3	289.0	272.7	260.9	257.2	254.2
52.5°	7992.0	3151.1	1032.6	454.6	345.2	353.4	287.6	268.3	257.2	252.1	246.9
55°	8629.9	3337.4	944.6	403.6	328.3	346.7	285.2	263.1	251.3	243.9	239.5
57.5°	9097.0	3404.6	831.6	370.3	304.5	335.5	282.3	256.5	243.9	237.9	232.0
60°	9004.6	3274.5	736.2	349.6	290.5	303.0	280.1	250.5	237.3	232.8	227.7
62.5°	8264.7	2934.4	674.9	340.1	281.7	276.4	282.3	244.6	231.4	226.9	225.4
65°	7155.2	2432.6	650.4	337.8	274.2	260.9	262.4	237.9	224.7	221.0	219.5
67.5°	5902.3	1963.3	629.0	345.2	264.6	249.8	242.4	229.1	218.1	214.3	211.4
70°	4654.6	1632.9	619.4	340.8	252.8	238.7	230.6	219.5	209.9	206.3	204.0
72.5°	3748.3	1379.3	614.2	336.3	237.3	224.0	216.6	206.9	196.6	195.1	193.0
75°	3171.8	1084.4	562.4	322.4	219.5	206.3	201.0	192.2	181.8	181.8	180.4
77.5°	2446.7	784.3	467.8	285.2	201.0	186.3	181.8	175.2	163.4	165.5	164.9
80°	1807.2	511.6	365.9	236.5	178.1	164.1	161.9	155.2	142.7	145.7	145.7
82.5°	1238.1	335.5	263.1	193.7	152.3	139.0	139.0	132.3	118.2	119.7	124.2
85°	621.6	230.6	196.6	150.0	118.2	111.7	111.7	106.4	92.5	93.1	99.1
87.5°	189.2	139.0	130.1	107.2	85.0	83.5	79.9	76.2	67.3	66.5	70.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0
2.5°	3918.4	3876.2	3825.2	3712.8	3675.2	3673.0	3706.9	3671.4	3739.5	3710.7	3742.4
5°	3160.0	3118.6	3061.7	2918.2	2831.0	2771.9	2743.8	2661.0	2720.9	2677.3	2713.6
7.5°	2324.0	2333.6	2295.9	2211.6	2021.7	1926.2	1870.1	1819.8	1863.4	1859.0	1928.5
10°	1633.5	1659.4	1632.9	1547.8	1394.0	1341.6	1352.0	1371.9	1428.8	1458.4	1565.5
12.5°	1176.0	1174.5	1157.5	1081.4	980.2	986.1	1028.2	1063.0	1115.4	1146.4	1255.8
15°	878.1	864.8	857.4	795.3	737.7	750.3	771.0	774.6	807.9	826.4	915.0
17.5°	663.8	670.5	678.6	634.2	590.5	582.5	566.2	546.3	555.9	559.5	603.8
20°	527.0	553.6	573.6	542.6	498.2	474.5	453.9	440.6	440.6	439.8	452.4
22.5°	460.5	479.7	501.2	479.7	439.8	419.1	407.3	396.9	395.4	395.4	407.3
25°	424.3	438.3	459.0	444.2	414.6	399.2	388.1	374.8	369.7	368.1	376.3
27.5°	406.6	412.5	422.9	409.5	384.4	377.0	374.0	362.2	355.5	351.9	360.0
30°	376.3	374.8	375.6	362.2	342.2	341.6	346.7	348.9	346.7	346.0	358.5
32.5°	348.1	345.2	344.5	332.5	314.1	309.8	314.1	318.6	323.7	331.2	346.0
35°	312.7	320.0	324.5	314.1	291.9	278.7	273.4	265.4	260.9	260.9	277.9
37.5°	284.6	301.5	308.2	298.6	274.2	255.7	246.9	245.4	246.2	249.1	265.4
40°	275.0	287.6	293.5	283.8	259.5	242.4	237.3	235.8	237.3	241.7	258.0
42.5°	269.1	277.9	277.2	265.4	245.4	233.6	230.6	229.1	230.6	235.0	252.8
45°	263.9	269.8	263.9	249.8	231.4	225.4	226.1	225.4	226.9	231.4	248.3
47.5°	259.5	261.6	254.2	240.3	221.0	219.5	222.5	224.7	226.1	229.9	247.6
50°	252.8	252.8	246.2	231.4	212.2	212.8	216.6	221.8	222.5	226.9	240.9
52.5°	244.6	243.9	239.5	225.4	204.8	206.9	206.9	212.8	214.3	219.5	234.4
55°	237.9	236.5	234.4	221.0	198.1	201.8	199.6	201.8	205.5	210.7	226.9
57.5°	232.0	229.1	229.1	217.3	193.0	194.4	189.2	192.2	196.6	201.0	218.1
60°	226.1	223.2	224.7	212.2	184.7	183.3	181.2	187.1	188.5	193.7	210.7
62.5°	219.5	217.3	218.1	206.3	178.8	175.2	175.2	180.4	181.2	188.5	204.8
65°	214.3	211.4	210.7	200.3	172.2	167.8	170.0	172.2	173.7	181.2	196.6
67.5°	209.2	203.2	203.2	195.1	164.9	160.4	164.9	164.1	166.3	172.9	185.5
70°	202.5	194.4	195.1	191.4	157.5	152.3	155.9	155.2	156.7	161.1	173.7
72.5°	192.2	185.5	187.1	185.5	150.0	142.7	144.1	144.1	144.1	147.8	161.1
75°	178.8	173.7	178.1	181.8	141.2	130.8	132.3	132.3	130.1	132.3	148.6
77.5°	162.6	159.6	174.5	169.3	130.8	118.2	118.2	116.8	112.3	115.3	133.1
80°	144.9	142.7	161.1	141.9	119.0	102.7	101.3	97.6	93.1	95.4	113.1
82.5°	126.4	124.2	135.3	108.7	102.7	85.0	81.3	74.7	70.3	72.4	88.7
85°	103.5	103.5	104.3	82.1	78.3	65.0	60.6	51.8	46.6	48.1	63.6
87.5°	74.0	76.2	70.3	56.2	46.6	36.3	33.3	28.1	23.6	27.4	33.3
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: P193012

CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0	4543.0
2.5°	3905.0	3986.4	4078.7	4197.0	4298.3	4464.7	4624.3	4720.3
5°	2919.7	3055.0	3223.5	3440.1	3641.9	3945.1	4245.9	4438.7
7.5°	2089.7	2234.6	2416.4	2686.9	2972.2	3358.8	3756.5	3987.1
10°	1728.9	1877.5	2030.5	2213.0	2446.7	2867.3	3337.4	3597.6
12.5°	1430.3	1589.1	1754.0	1946.2	2162.8	2538.3	3080.1	3379.5
15°	1094.7	1272.1	1466.5	1709.7	1981.0	2414.8	3016.5	3341.8
17.5°	750.3	948.4	1187.1	1487.2	1819.0	2375.0	3130.4	3505.1
20°	516.7	660.8	915.8	1267.7	1666.9	2369.9	3349.3	3818.6
22.5°	432.4	496.7	683.0	1066.0	1552.2	2433.3	3688.5	4258.4
25°	399.9	438.3	545.5	890.7	1468.8	2579.7	4155.6	4827.5
27.5°	380.7	415.4	495.3	776.2	1403.0	2749.7	4610.2	5379.0
30°	388.1	423.6	481.2	717.8	1313.6	2891.6	5013.8	5809.2
32.5°	349.6	365.2	412.5	666.1	1249.2	3010.6	5367.2	6165.5
35°	297.8	325.3	368.1	641.6	1250.7	3090.5	5752.3	6620.8
37.5°	283.8	311.2	342.2	632.7	1267.7	3175.5	6194.2	7154.6
40°	275.0	300.1	326.6	627.5	1283.9	3253.0	6627.4	7682.2
42.5°	269.1	291.9	325.3	609.7	1292.1	3322.6	6983.8	8131.0
45°	268.3	291.9	331.2	592.0	1304.7	3397.2	7282.3	8462.7
47.5°	269.1	301.5	320.0	570.7	1304.7	3522.2	7632.8	8759.2
50°	266.1	317.8	308.2	540.3	1274.3	3758.7	8113.1	9156.2
52.5°	264.6	315.6	285.2	493.8	1221.8	4134.2	8728.9	9703.1
55°	260.9	304.5	269.1	424.3	1160.6	4543.6	9388.2	10349.9
57.5°	257.2	269.8	260.1	363.8	1066.0	4832.0	9842.1	10854.8
60°	288.2	235.8	252.8	334.2	939.5	4911.1	9824.4	11055.8
62.5°	266.8	221.0	243.2	327.4	850.8	4689.3	9370.5	10947.1
65°	209.2	211.4	233.6	346.7	827.1	4101.7	8566.3	10445.3
67.5°	191.4	201.8	224.0	371.1	829.4	3284.2	7364.4	9352.0
70°	180.4	191.4	212.8	383.6	835.3	2448.2	5822.4	7617.2
72.5°	167.8	177.4	200.3	385.8	796.8	1778.4	4487.5	5600.7
75°	153.0	161.9	182.6	336.3	660.0	1233.6	3432.7	3831.8
77.5°	136.0	142.7	160.4	259.5	490.0	789.4	2576.8	2799.2
80°	116.1	119.7	134.5	190.0	335.5	493.8	2038.7	2246.4
82.5°	93.1	94.6	104.3	142.7	218.1	317.1	1365.3	1558.1
85°	65.8	65.8	71.7	103.5	148.6	201.0	741.5	821.9
87.5°	31.0	31.8	31.8	57.0	77.6	102.0	170.8	105.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)