

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: P193022

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193022
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 16489.4 lumens
Efficiency: N/A
Efficacy: 96.4 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): 171
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



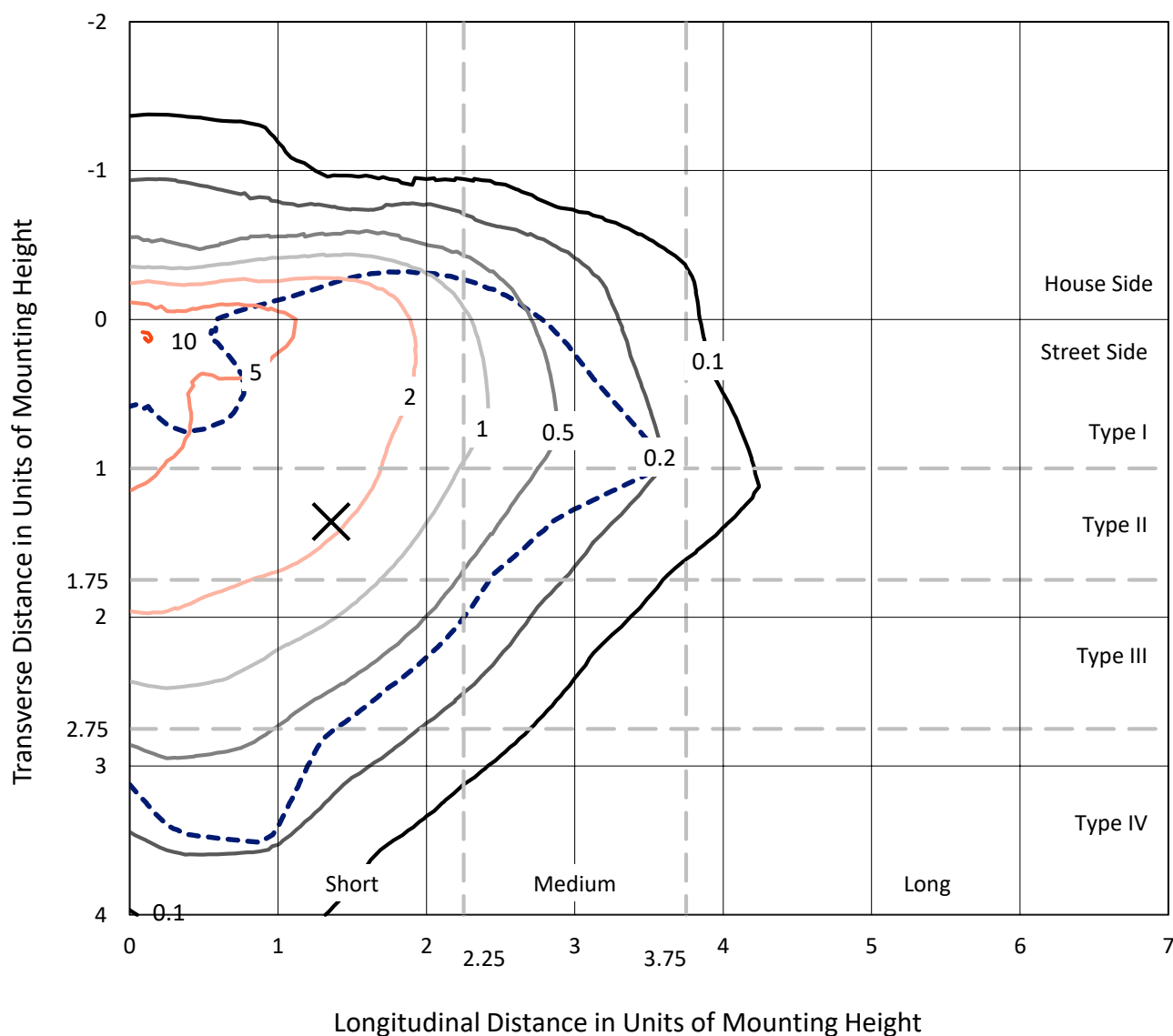
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

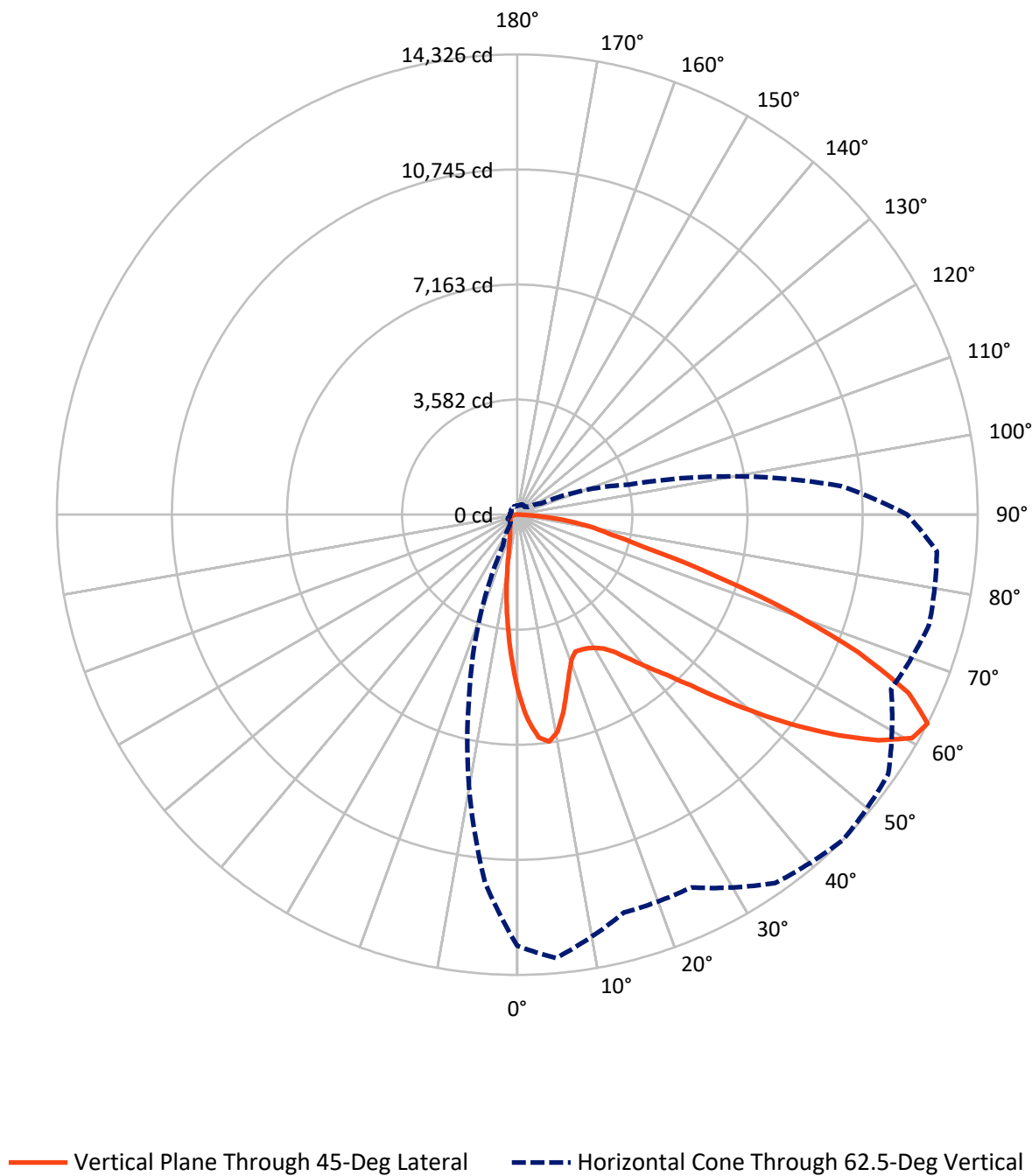


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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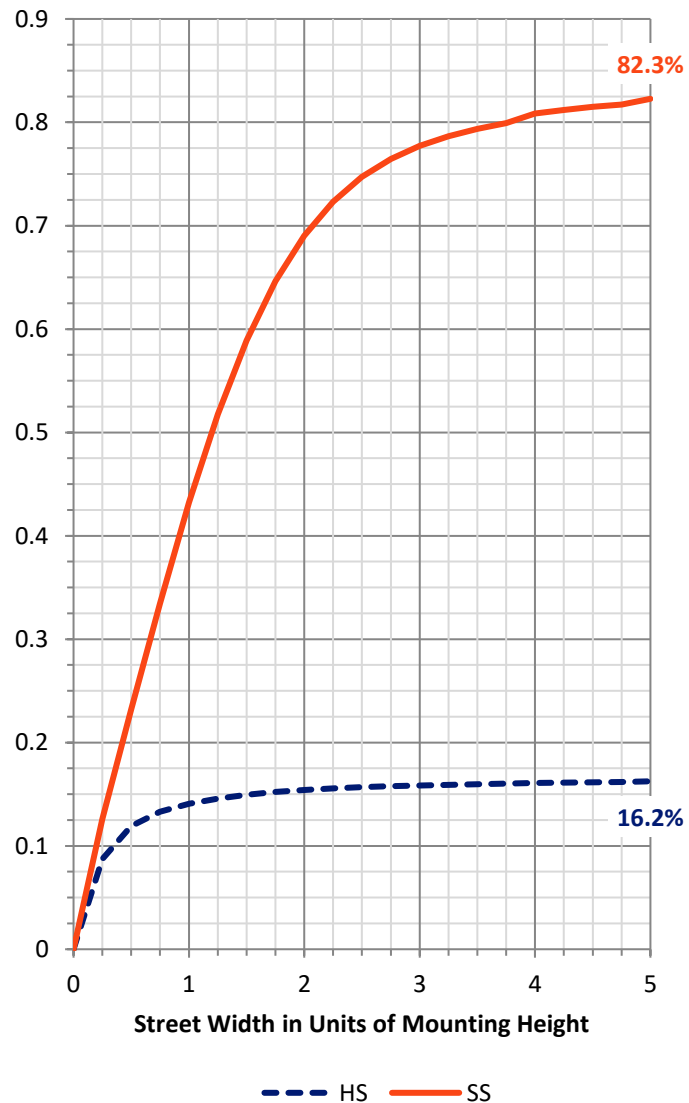
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2728.8	0.0	2728.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13760.6	0.0	13760.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	16489.4	0.0	16489.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.5	2.5
10°-20°	743.7	4.5
20°-30°	1084.3	6.6
30°-40°	1669.9	10.1
40°-50°	2457.7	14.9
50°-60°	3604.9	21.9
60°-70°	4029.7	24.4
70°-80°	1972.9	12.0
80°-90°	520.9	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°	16489.4	100.0
0°-180°	16489.4	100.0

Coefficient of Utilization



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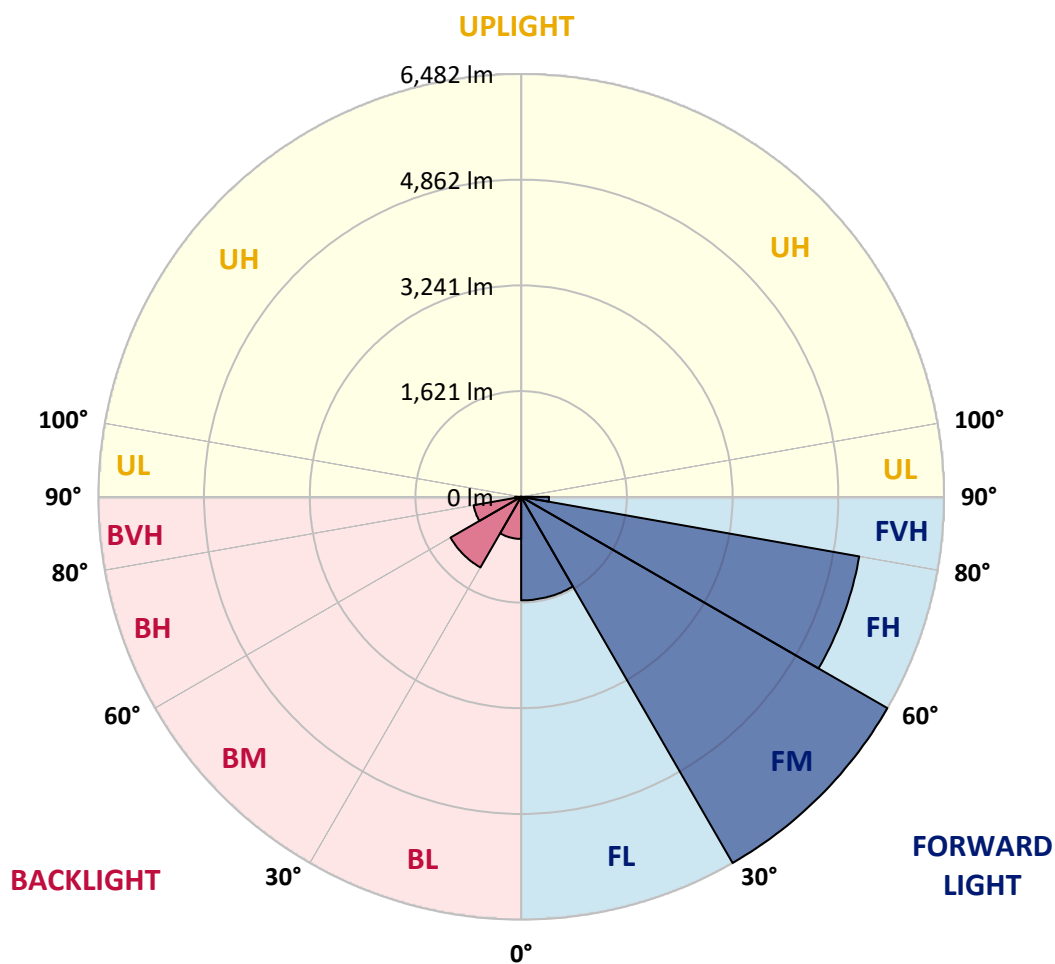
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1587.9	9.6			
FM	(30°-60°)	6482.1	39.3			
FH	(60°-80°)	5262.9	31.9			G3/7500
FVH	(80°-90°)	427.8	2.6			G3/500
BL	(0°-30°)	645.6	3.9	B2/1000		
BM	(30°-60°)	1250.3	7.6	B2/2500		
BH	(60°-80°)	739.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	93.1	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°	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0
2.5°	5788.5	5881.0	6061.3	6196.4	6360.5	6398.6	6451.2	6399.6	6308.0	6186.5	6146.6
5°	5443.2	5640.8	6078.6	6463.9	6806.6	6966.1	7010.4	6879.0	6613.5	6264.5	6051.5
7.5°	4889.4	5170.3	5763.2	6330.6	6835.5	7133.7	7126.4	6820.9	6332.4	5764.1	5422.3
10°	4411.7	4732.6	5412.3	6046.9	6582.7	6871.8	6760.3	6369.6	5786.7	5132.4	4761.5
12.5°	4144.3	4458.8	5148.7	5785.9	6233.6	6333.3	6248.1	5865.6	5316.3	4654.6	4330.1
15°	4098.0	4443.3	5043.4	5562.0	5813.0	5726.1	5624.4	5453.1	5065.3	4500.5	4162.3
17.5°	4298.4	4679.0	5164.0	5406.0	5363.4	5212.1	5183.0	5202.1	5108.8	4671.8	4282.1
20°	4682.8	5139.5	5451.4	5332.6	5021.7	4813.2	4820.5	5111.4	5387.9	5106.0	4660.9
22.5°	5222.0	5743.2	5865.6	5371.6	4877.6	4630.1	4690.0	5161.3	5833.1	5740.5	5172.3
25°	5920.0	6395.0	6307.0	5513.0	4892.1	4652.8	4700.8	5333.5	6358.7	6375.1	5804.8
27.5°	6596.2	7036.8	6677.8	5700.6	4951.9	4706.3	4769.7	5604.6	6860.9	7063.9	6528.2
30°	7123.7	7430.1	6824.7	5871.9	5069.7	4810.4	4889.4	5862.0	7089.3	7528.9	7084.8
32.5°	7560.6	7780.9	7058.4	6084.1	5286.4	4974.6	5113.3	6174.7	7418.3	7971.2	7629.6
35°	8119.0	8181.6	7349.5	6320.6	5620.9	5260.1	5432.4	6481.0	7731.9	8418.2	8166.1
37.5°	8773.5	8692.7	7624.1	6644.3	6053.3	5706.9	5849.3	6817.3	7990.3	8924.9	8714.5
40°	9420.7	9226.7	7968.6	7146.4	6684.2	6233.6	6402.3	7176.3	8231.4	9432.5	9250.2
42.5°	9970.9	9683.5	8308.5	7698.4	7271.5	6814.6	7015.9	7538.1	8461.7	9865.8	9715.3
45°	10377.9	10020.7	8632.0	8228.8	8081.0	7587.0	7682.1	7952.2	8710.9	10227.4	10097.8
47.5°	10741.4	10359.8	8998.3	8763.4	8789.0	8591.3	8438.1	8434.5	9004.6	10522.9	10459.5
50°	11228.1	10830.3	9391.7	9314.7	9851.3	9719.8	9381.6	8997.4	9376.3	10858.3	10851.1
52.5°	11898.9	11575.3	9872.1	9908.4	10842.9	10928.9	10510.2	9673.6	9958.2	11473.8	11430.2
55°	12692.0	12503.5	10526.6	10590.9	12059.4	12121.0	11705.0	10519.3	10813.9	12364.8	12244.2
57.5°	13311.2	13271.2	11244.4	11410.4	12967.7	13245.0	12862.4	11498.2	11778.3	13115.4	12812.7
60°	13557.7	13750.8	12008.5	12237.0	13807.8	14115.2	13779.8	12358.5	12633.1	13426.3	12773.6
62.5°	13424.4	13855.9	12822.5	12803.5	13995.4	14326.4	14090.7	12837.1	13266.7	13105.4	12127.3
65°	12809.0	13477.9	13294.7	12657.5	13353.7	13381.0	13304.8	12623.2	13416.3	12091.0	10878.3
67.5°	11468.3	12431.0	12673.0	11406.6	11622.5	11445.7	11317.8	11452.0	12636.7	10571.0	9142.4
70°	9340.9	10789.5	10905.3	9123.3	9025.5	8906.7	8652.0	9388.9	11098.5	8663.8	7254.3
72.5°	6868.1	8391.0	8747.2	6691.4	6238.1	6262.6	6061.3	7075.7	9023.6	6435.8	5416.0
75°	4699.0	6075.9	6843.7	4669.0	4125.2	4135.3	4109.8	5013.6	7187.2	4476.9	4052.8
77.5°	3432.7	4341.0	5161.3	3139.0	3047.5	2991.3	2977.7	3508.0	5510.3	3250.5	3147.2
80°	2754.7	3207.0	3467.2	2175.5	2339.6	2335.0	2259.8	2412.0	3598.6	2377.6	2354.0
82.5°	1910.8	2464.7	2809.0	1705.0	1579.1	1552.8	1570.8	1796.5	2543.4	1625.2	1545.5
85°	1007.9	1637.0	2781.8	1511.0	937.2	747.8	930.1	1471.1	2203.5	861.1	754.2
87.5°	128.7	473.2	1841.9	602.8	369.9	199.4	441.4	828.5	1414.9	175.8	153.2
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°	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0
2.5°	6044.2	5923.6	5765.9	5620.0	5468.5	5318.0	5121.4	4998.2	4913.0	4896.6	4860.4
5°	5897.4	5496.8	5193.9	4932.0	4694.5	4359.1	4173.2	4019.2	3936.7	3928.5	3908.6
7.5°	5220.2	4667.3	4258.5	3887.8	3551.5	3280.4	2981.2	2841.8	2784.6	2798.2	2811.8
10°	4515.9	3897.8	3428.2	3049.3	2752.9	2524.4	2284.3	2122.1	2009.6	1986.9	1982.4
12.5°	4001.1	3323.0	2867.1	2599.8	2370.4	2155.5	1900.8	1709.6	1563.6	1513.8	1480.3
15°	3783.5	3042.0	2564.4	2276.1	2023.2	1750.4	1513.8	1313.4	1179.2	1135.8	1111.2
17.5°	3829.7	2964.1	2355.8	1986.9	1663.4	1378.8	1080.5	909.1	828.5	807.7	807.7
20°	4072.6	2949.6	2183.6	1720.4	1317.0	987.1	742.4	644.5	618.2	615.4	622.8
22.5°	4413.5	3000.4	2054.9	1489.3	1023.3	720.7	578.3	542.0	530.2	532.9	541.2
25°	4921.0	3171.7	1961.5	1283.6	803.0	590.1	515.8	494.0	488.6	495.8	505.8
27.5°	5522.9	3343.0	1903.6	1128.5	678.1	539.3	490.3	467.7	471.4	480.4	489.5
30°	6051.5	3483.5	1811.9	1018.0	639.0	542.0	490.3	459.6	455.9	457.8	460.5
32.5°	6525.5	3578.7	1705.0	912.8	551.1	481.3	457.8	453.2	433.3	426.0	426.9
35°	6934.3	3578.7	1640.6	851.1	494.0	426.9	388.9	366.2	356.1	357.2	367.1
37.5°	7328.6	3507.0	1609.0	816.7	463.2	406.1	372.6	352.6	339.0	336.3	338.1
40°	7676.7	3402.8	1572.7	802.2	439.7	393.5	361.6	345.4	330.8	326.3	327.2
42.5°	7955.8	3318.5	1532.8	783.2	425.1	384.4	354.4	339.9	323.6	319.0	318.2
45°	8257.7	3290.4	1480.3	745.1	432.3	385.2	352.6	337.2	320.9	315.4	313.7
47.5°	8655.6	3378.3	1425.9	699.8	447.8	389.7	355.3	337.2	320.0	315.4	313.7
50°	9156.9	3585.1	1357.0	633.6	432.3	402.5	354.4	334.5	320.0	315.4	311.8
52.5°	9800.4	3864.2	1266.4	557.4	423.3	433.3	352.6	329.1	315.4	309.1	302.7
55°	10582.8	4092.7	1158.4	495.0	402.5	425.1	349.8	322.7	308.2	299.2	293.7
57.5°	11155.6	4175.2	1019.7	454.1	373.4	411.6	346.3	314.5	299.2	291.8	284.6
60°	11042.3	4015.5	902.8	428.8	356.1	371.6	343.5	307.2	290.9	285.5	279.1
62.5°	10135.0	3598.6	827.5	417.0	345.4	339.0	346.3	300.0	283.7	278.3	276.4
65°	8774.4	2983.1	797.7	414.2	336.3	320.0	321.8	291.8	275.6	271.1	269.3
67.5°	7238.0	2407.5	771.4	423.3	324.5	306.4	297.3	281.1	267.3	262.9	259.3
70°	5707.9	2002.2	759.6	417.9	310.0	292.9	282.8	269.3	257.5	252.9	250.2
72.5°	4596.5	1691.5	753.3	412.5	290.9	274.7	265.6	253.8	241.1	239.3	236.5
75°	3889.5	1329.8	689.8	395.2	269.3	252.9	246.6	235.7	223.0	223.0	221.1
77.5°	3000.4	961.7	573.8	349.8	246.6	228.5	223.0	214.8	200.3	203.0	202.1
80°	2216.3	627.2	448.7	290.1	218.4	201.2	198.6	190.3	175.0	178.5	178.5
82.5°	1518.2	411.6	322.7	237.5	186.8	170.5	170.5	162.2	145.0	146.9	152.3
85°	762.3	282.8	241.1	184.0	145.0	136.9	136.9	130.6	113.3	114.1	121.5
87.5°	232.0	170.5	159.5	131.4	104.3	102.3	97.9	93.4	82.5	81.6	86.1
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°	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0
2.5°	4805.1	4753.5	4690.8	4553.1	4506.8	4504.1	4545.8	4502.3	4585.7	4550.3	4589.3
5°	3875.1	3824.3	3754.4	3578.7	3471.7	3399.2	3364.7	3263.2	3336.7	3283.1	3327.6
7.5°	2849.8	2861.6	2815.4	2712.1	2479.1	2362.1	2293.4	2231.6	2285.1	2279.7	2364.9
10°	2003.3	2035.0	2002.2	1898.1	1709.6	1645.2	1657.9	1682.4	1752.2	1788.5	1919.9
12.5°	1442.1	1440.4	1419.5	1326.1	1202.0	1209.2	1260.9	1303.5	1367.8	1405.9	1540.0
15°	1076.9	1060.6	1051.5	975.3	904.6	920.1	945.4	949.9	990.8	1013.4	1122.2
17.5°	814.0	822.1	832.1	777.7	724.3	714.2	694.4	669.9	681.7	686.1	740.6
20°	646.3	678.9	703.4	665.3	611.0	582.0	556.5	540.3	540.3	539.3	554.7
22.5°	564.8	588.3	614.6	588.3	539.3	513.9	499.5	486.7	485.0	485.0	499.5
25°	520.3	537.5	562.9	544.7	508.5	489.5	476.0	459.6	453.2	451.5	461.4
27.5°	498.6	505.8	518.4	502.1	471.4	462.2	458.7	444.1	436.1	431.5	441.4
30°	461.4	459.6	460.5	444.1	419.7	418.8	425.1	427.9	425.1	424.3	439.7
32.5°	426.9	423.3	422.4	407.9	385.2	379.7	385.2	390.7	397.0	406.1	424.3
35°	383.4	392.5	397.9	385.2	358.1	341.8	335.4	325.4	320.0	320.0	340.8
37.5°	349.0	369.9	378.0	366.2	336.3	313.7	302.7	300.9	301.9	305.5	325.4
40°	337.2	352.6	359.9	348.1	318.2	297.3	290.9	289.2	290.9	296.4	316.3
42.5°	330.0	340.8	339.9	325.4	300.9	286.5	282.8	281.1	282.8	288.2	310.0
45°	323.6	330.8	323.6	306.4	283.7	276.4	277.4	276.4	278.3	283.7	304.7
47.5°	318.2	320.9	311.8	294.6	271.1	269.3	272.8	275.6	277.4	281.9	303.6
50°	310.0	310.0	301.9	283.7	260.1	261.0	265.6	271.9	272.8	278.3	295.5
52.5°	300.0	299.2	293.7	276.4	251.1	253.8	253.8	261.0	262.9	269.3	287.4
55°	291.8	290.1	287.4	271.1	242.9	247.5	244.7	247.5	252.0	258.3	278.3
57.5°	284.6	281.1	281.1	266.5	236.5	238.4	232.0	235.7	241.1	246.6	267.3
60°	277.4	273.7	275.6	260.1	226.6	224.7	222.2	229.3	231.2	237.5	258.3
62.5°	269.3	266.5	267.3	252.9	219.4	214.8	214.8	221.1	222.2	231.2	251.1
65°	262.9	259.3	258.3	245.7	211.2	205.7	208.4	211.2	213.0	222.2	241.1
67.5°	256.5	249.2	249.2	239.3	202.1	196.6	202.1	201.2	204.0	212.1	227.5
70°	248.3	238.4	239.3	234.8	193.1	186.8	191.3	190.3	192.2	197.6	213.0
72.5°	235.7	227.5	229.3	227.5	184.0	175.0	176.8	176.8	176.8	181.3	197.6
75°	219.4	213.0	218.4	223.0	173.1	160.4	162.2	162.2	159.5	162.2	182.3
77.5°	199.4	195.8	213.9	207.6	160.4	145.0	145.0	143.2	137.7	141.4	163.2
80°	177.6	175.0	197.6	174.0	146.0	125.9	124.2	119.6	114.1	116.9	138.6
82.5°	155.0	152.3	165.8	133.3	125.9	104.3	99.8	91.6	86.1	88.8	108.8
85°	126.8	126.8	127.9	100.6	96.0	79.8	74.3	63.5	57.2	58.9	77.9
87.5°	90.6	93.4	86.1	69.0	57.2	44.5	40.8	34.4	29.0	33.6	40.8
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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CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7030-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0	5571.0
2.5°	4788.8	4888.5	5001.8	5146.7	5271.0	5475.0	5670.7	5788.5
5°	3580.4	3746.4	3953.0	4218.6	4466.1	4837.7	5206.6	5443.2
7.5°	2562.5	2740.2	2963.2	3294.9	3644.8	4118.8	4606.6	4889.4
10°	2120.1	2302.4	2490.0	2713.9	3000.4	3516.1	4092.7	4411.7
12.5°	1753.9	1948.8	2151.0	2386.7	2652.3	3112.7	3777.2	4144.3
15°	1342.5	1560.0	1798.4	2096.5	2429.3	2961.4	3699.2	4098.0
17.5°	920.1	1162.9	1455.8	1823.7	2230.7	2912.5	3838.9	4298.4
20°	633.6	810.3	1123.0	1554.5	2044.0	2906.1	4107.0	4682.8
22.5°	530.2	609.1	837.6	1307.1	1903.6	2984.0	4523.2	5222.0
25°	490.3	537.5	669.0	1092.3	1801.1	3163.5	5096.1	5920.0
27.5°	466.9	509.4	607.4	951.7	1720.4	3372.0	5653.5	6596.2
30°	476.0	519.4	590.1	880.2	1610.7	3546.0	6148.4	7123.7
32.5°	428.8	447.8	505.8	816.7	1532.0	3692.0	6581.7	7560.6
35°	365.3	398.8	451.5	786.7	1533.7	3789.8	7054.0	8119.0
37.5°	348.1	381.7	419.7	776.0	1554.5	3894.1	7596.0	8773.5
40°	337.2	367.9	400.7	769.6	1574.5	3989.3	8127.1	9420.7
42.5°	330.0	358.1	398.8	747.8	1584.5	4074.5	8564.1	9970.9
45°	329.1	358.1	406.1	726.0	1599.9	4166.0	8930.3	10377.9
47.5°	330.0	369.9	392.5	699.8	1599.9	4319.2	9359.9	10741.4
50°	326.3	389.7	378.0	662.6	1562.7	4609.3	9949.1	11228.1
52.5°	324.5	387.1	349.8	605.6	1498.4	5069.7	10704.2	11898.9
55°	320.0	373.4	330.0	520.3	1423.1	5571.9	11512.7	12692.0
57.5°	315.4	330.8	319.0	446.0	1307.1	5925.4	12069.4	13311.2
60°	353.6	289.2	310.0	409.7	1152.1	6022.4	12047.6	13557.7
62.5°	327.2	271.1	298.2	401.5	1043.3	5750.6	11491.1	13424.4
65°	256.5	259.3	286.5	425.1	1014.4	5029.9	10504.8	12809.0
67.5°	234.8	247.5	274.7	455.1	1016.9	4027.3	9031.0	11468.3
70°	221.1	234.8	261.0	470.5	1024.3	3002.1	7140.1	9340.9
72.5°	205.7	217.5	245.7	473.2	977.1	2181.0	5503.1	6868.1
75°	187.6	198.6	223.9	412.5	809.5	1512.8	4209.5	4699.0
77.5°	166.8	175.0	196.6	318.2	600.9	968.0	3159.9	3432.7
80°	142.4	146.9	165.0	232.9	411.6	605.6	2500.0	2754.7
82.5°	114.1	116.1	127.9	175.0	267.3	388.9	1674.2	1910.8
85°	80.7	80.7	88.0	126.8	182.3	246.6	909.1	1007.9
87.5°	38.0	39.0	39.0	69.8	95.2	125.1	209.3	128.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)