

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: P193040

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193040
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-02-LED-E1-SLL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 11355.3 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' 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



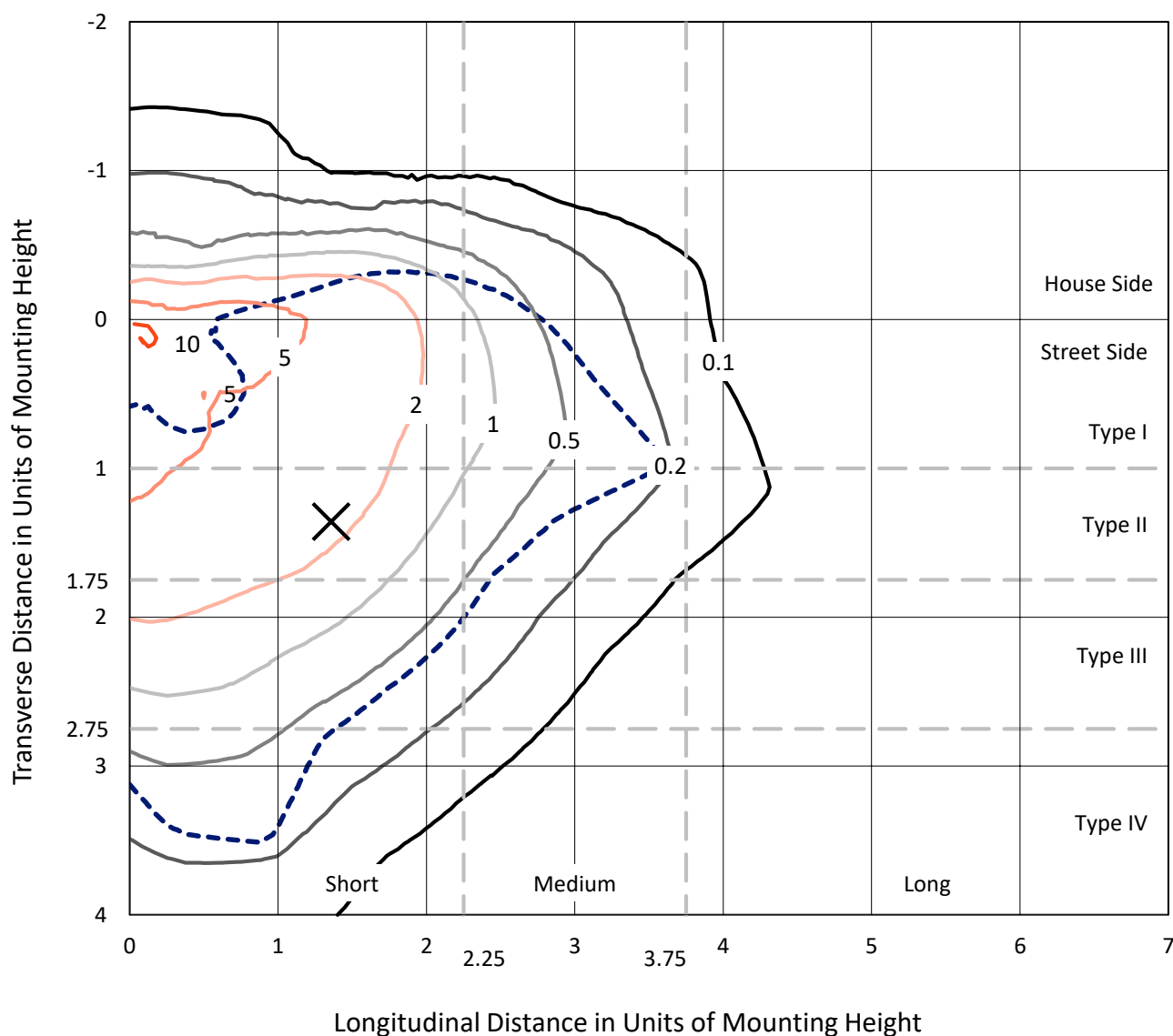
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

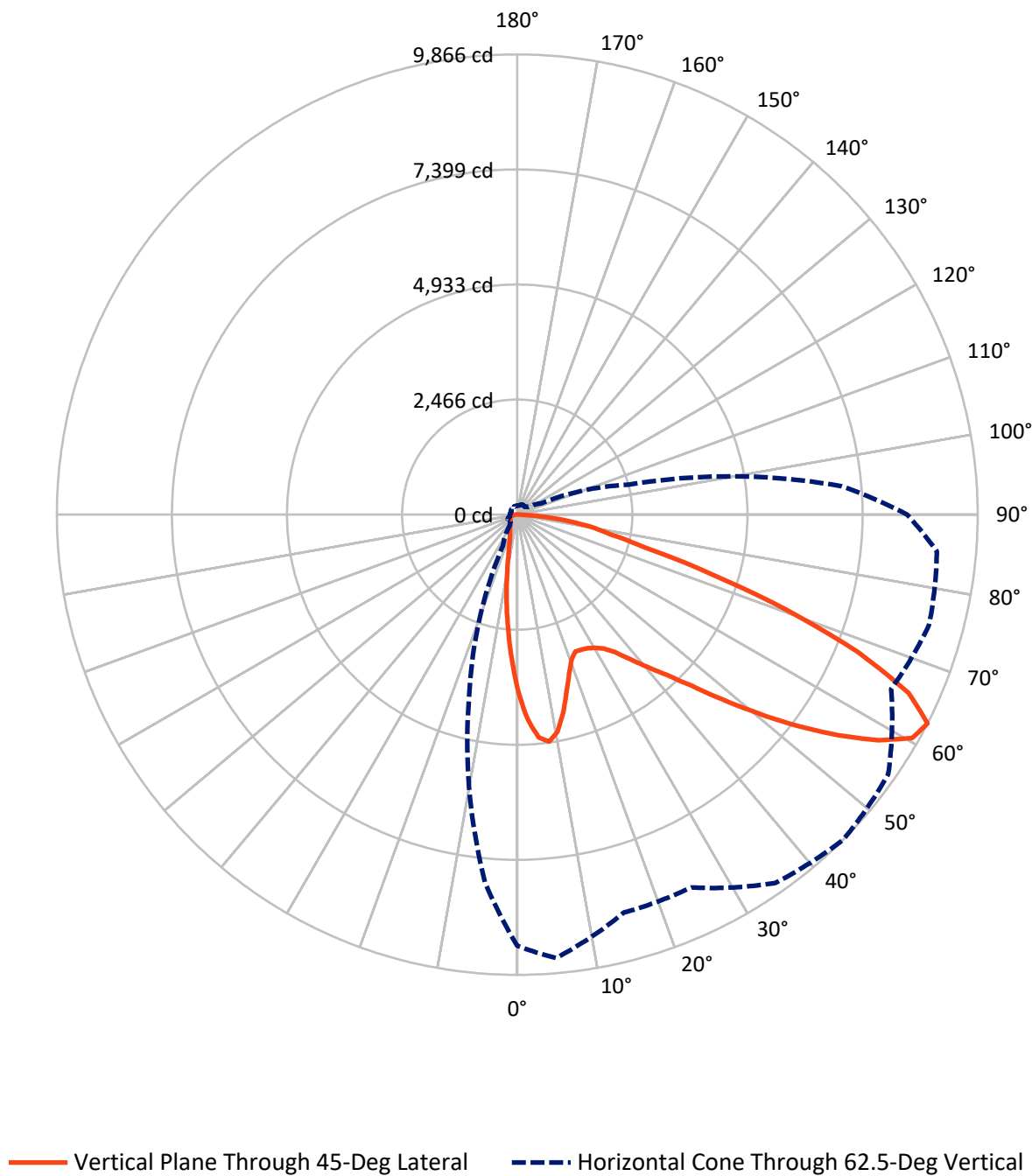


Based on 20 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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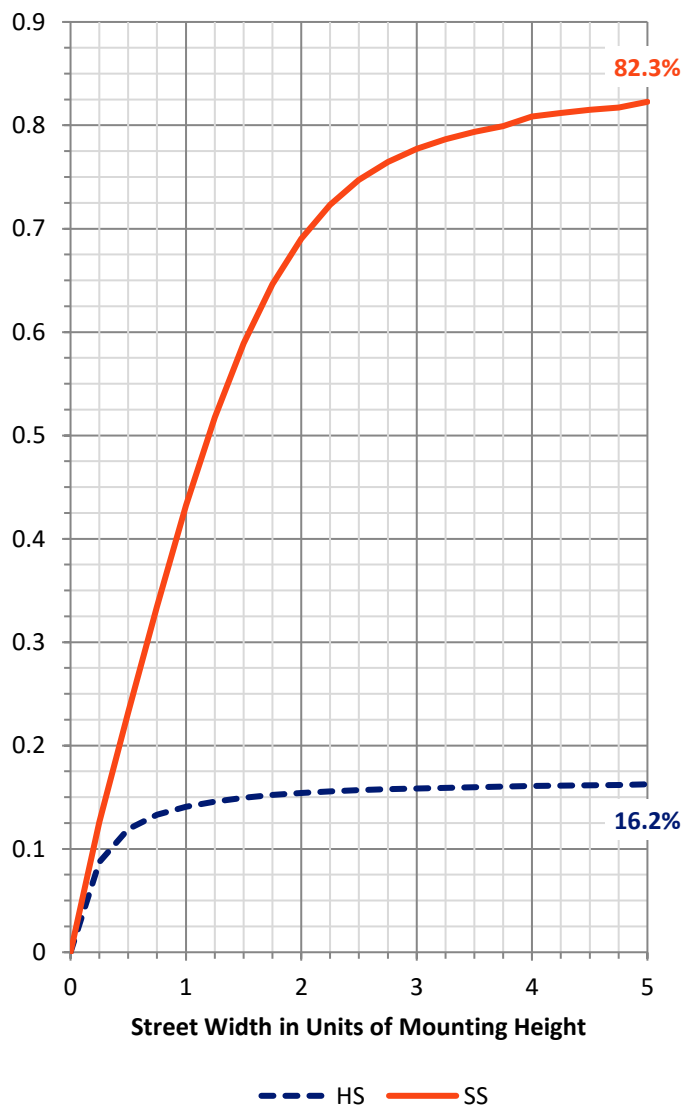
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1879.2	0.0	1879.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9476.2	0.0	9476.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	11355.3	0.0	11355.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	2.5
10°-20°	512.1	4.5
20°-30°	746.7	6.6
30°-40°	1150.0	10.1
40°-50°	1692.5	14.9
50°-60°	2482.5	21.9
60°-70°	2775.0	24.4
70°-80°	1358.6	12.0
80°-90°	358.7	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°	11355.3	100.0
0°-180°	11355.3	100.0

Coefficient of Utilization



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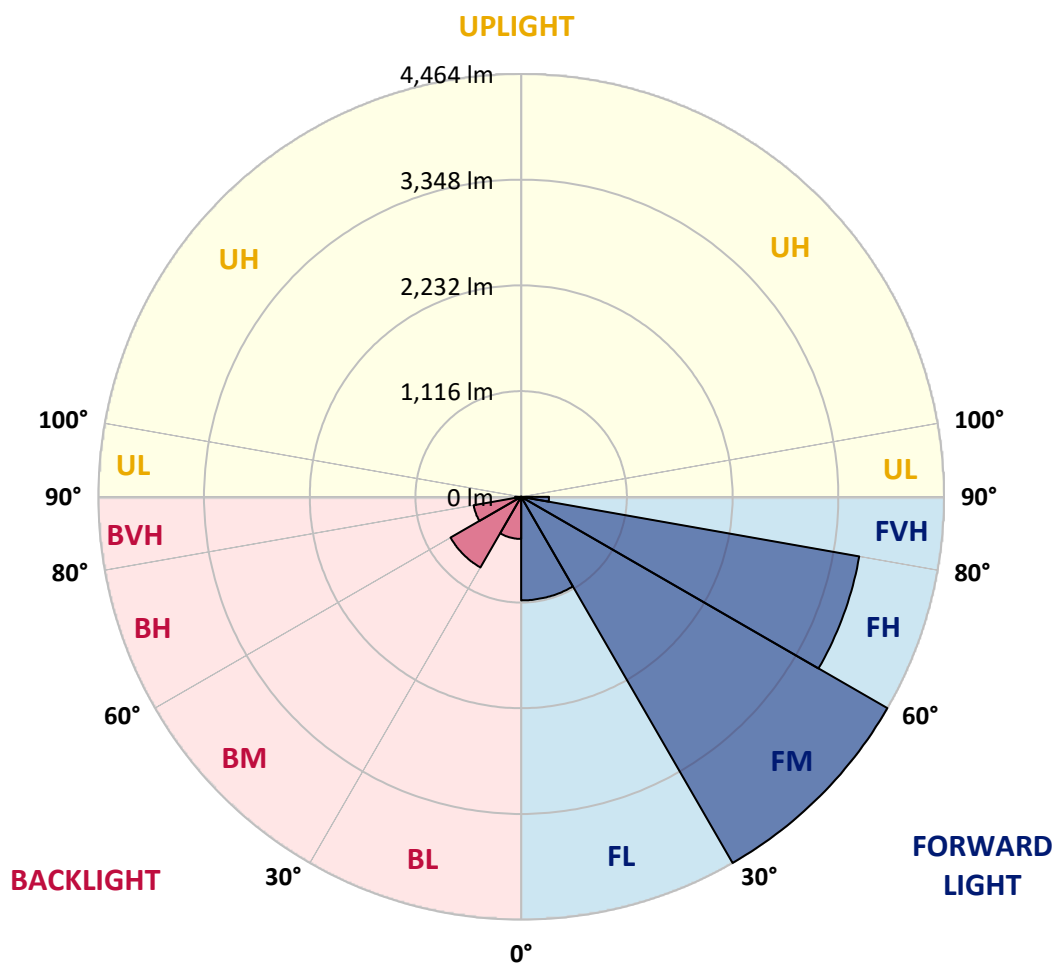
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.5	9.6			
FM	(30°-60°)	4463.9	39.3			
FH	(60°-80°)	3624.2	31.9			G2/5000
FVH	(80°-90°)	294.6	2.6			G3/500
BL	(0°-30°)	444.6	3.9	B1/500		
BM	(30°-60°)	861.0	7.6	B1/1000		
BH	(60°-80°)	509.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	64.1	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°	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4
2.5°	3986.3	4049.9	4174.1	4267.1	4380.1	4406.3	4442.6	4407.0	4343.9	4260.2	4232.8
5°	3748.4	3884.5	4186.0	4451.3	4687.2	4797.1	4827.7	4737.2	4554.3	4314.0	4167.2
7.5°	3367.1	3560.5	3968.8	4359.6	4707.2	4912.7	4907.6	4697.3	4360.7	3969.4	3734.1
10°	3038.1	3258.9	3727.2	4164.2	4533.0	4732.2	4655.4	4386.3	3985.0	3534.3	3279.0
12.5°	2854.0	3070.5	3545.6	3984.3	4292.7	4361.4	4302.7	4039.4	3661.1	3205.3	2981.9
15°	2822.0	3060.0	3473.2	3830.2	4003.2	3943.1	3873.2	3755.2	3488.1	3099.2	2866.4
17.5°	2960.1	3222.2	3556.2	3722.8	3693.5	3589.2	3569.3	3582.4	3518.0	3217.2	2948.8
20°	3224.7	3539.4	3754.0	3672.3	3458.2	3314.6	3319.7	3520.0	3710.3	3516.2	3209.7
22.5°	3596.2	3955.0	4039.4	3699.1	3358.9	3188.5	3229.7	3554.3	4016.8	3953.2	3561.8
25°	4076.8	4403.8	4343.3	3796.5	3368.9	3204.1	3237.3	3672.9	4378.9	4390.1	3997.5
27.5°	4542.5	4845.7	4598.6	3925.6	3410.1	3240.9	3284.7	3859.6	4724.7	4864.6	4495.6
30°	4905.7	5116.7	4699.7	4043.6	3491.3	3312.7	3367.1	4036.8	4882.0	5184.8	4878.9
32.5°	5206.6	5358.3	4860.7	4189.8	3640.4	3425.8	3521.2	4252.2	5108.6	5489.4	5254.1
35°	5591.2	5634.2	5061.1	4352.7	3870.7	3622.4	3740.9	4463.1	5324.5	5797.1	5623.6
37.5°	6041.8	5986.2	5250.2	4575.6	4168.6	3930.0	4028.1	4694.8	5502.6	6146.1	6001.2
40°	6487.5	6353.9	5487.4	4921.4	4603.0	4292.7	4408.8	4941.9	5668.5	6495.6	6370.2
42.5°	6866.4	6668.5	5721.6	5301.5	5007.5	4692.9	4831.5	5191.0	5827.1	6794.0	6690.4
45°	7146.6	6900.7	5944.5	5666.6	5564.9	5224.7	5290.3	5476.3	5998.8	7043.1	6953.8
47.5°	7397.0	7134.2	6196.6	6034.9	6052.4	5916.3	5810.9	5808.3	6201.0	7246.5	7202.8
50°	7732.2	7458.1	6467.5	6414.5	6784.0	6693.4	6460.6	6196.0	6456.9	7477.4	7472.5
52.5°	8194.1	7971.2	6798.3	6823.4	7466.9	7526.3	7237.8	6661.6	6857.6	7901.3	7871.4
55°	8740.3	8610.4	7249.1	7293.4	8304.6	8347.1	8060.5	7244.0	7446.9	8514.9	8432.0
57.5°	9166.7	9139.2	7743.4	7857.6	8930.1	9121.1	8857.6	7918.2	8111.1	9031.8	8823.3
60°	9336.4	9469.4	8269.7	8426.9	9508.8	9720.4	9489.3	8510.5	8699.7	9245.8	8796.5
62.5°	9244.7	9541.8	8830.3	8817.1	9637.9	9865.8	9703.5	8840.1	9136.0	9025.0	8351.4
65°	8820.8	9281.5	9155.4	8716.6	9196.0	9214.7	9162.3	8692.8	9239.1	8326.4	7491.3
67.5°	7897.6	8560.5	8727.2	7855.2	8003.7	7882.0	7794.0	7886.4	8702.2	7279.6	6295.8
70°	6432.5	7430.0	7509.9	6282.7	6215.3	6133.6	5958.1	6465.6	7642.9	5966.2	4995.7
72.5°	4729.8	5778.4	6023.7	4608.0	4295.8	4312.7	4174.1	4872.6	6214.1	4432.0	3729.7
75°	3235.9	4184.1	4712.8	3215.4	2840.8	2847.7	2830.3	3452.6	4949.5	3083.0	2790.9
77.5°	2364.0	2989.4	3554.3	2161.7	2098.7	2059.9	2050.6	2415.7	3794.6	2238.4	2167.2
80°	1897.0	2208.4	2387.7	1498.2	1611.1	1608.0	1556.2	1661.1	2478.1	1637.4	1621.1
82.5°	1315.8	1697.3	1934.4	1174.1	1087.3	1069.3	1081.7	1237.3	1751.5	1119.3	1064.3
85°	694.2	1127.3	1915.8	1040.5	645.4	514.9	640.5	1013.1	1517.5	593.1	519.3
87.5°	88.6	325.8	1268.4	415.0	254.7	137.3	304.0	570.6	974.4	121.1	105.6
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°	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4
2.5°	4162.2	4079.3	3970.6	3870.2	3765.9	3662.3	3526.8	3441.8	3383.2	3372.1	3347.0
5°	4061.1	3785.3	3576.7	3396.4	3232.9	3001.9	2873.8	2767.7	2710.9	2705.4	2691.6
7.5°	3594.8	3214.1	2932.5	2677.3	2445.7	2259.1	2053.1	1957.0	1917.6	1927.0	1936.3
10°	3109.8	2684.2	2360.8	2099.9	1895.7	1738.5	1573.0	1461.4	1383.9	1368.3	1365.2
12.5°	2755.3	2288.3	1974.5	1790.2	1632.4	1484.4	1309.0	1177.3	1076.8	1042.5	1019.4
15°	2605.5	2094.8	1765.9	1567.5	1393.3	1205.3	1042.5	904.4	812.2	782.2	765.3
17.5°	2637.3	2041.2	1622.4	1368.3	1145.5	949.5	744.0	626.0	570.6	556.1	556.1
20°	2804.5	2031.2	1503.7	1184.8	907.0	679.8	511.3	443.8	425.7	423.8	428.9
22.5°	3039.3	2066.2	1415.1	1025.6	704.7	496.2	398.2	373.2	365.2	367.0	372.7
25°	3388.9	2184.1	1350.8	883.9	553.1	406.3	355.2	340.3	336.4	341.4	348.3
27.5°	3803.4	2302.1	1310.9	777.2	466.9	371.4	337.7	322.1	324.6	330.8	337.1
30°	4167.2	2398.9	1247.8	701.0	440.1	373.2	337.7	316.6	314.0	315.2	317.1
32.5°	4493.8	2464.5	1174.1	628.6	379.5	331.5	315.2	312.2	298.4	293.4	294.0
35°	4775.2	2464.5	1129.8	586.1	340.3	294.0	267.8	252.2	245.3	246.0	252.8
37.5°	5046.8	2415.0	1108.0	562.4	318.9	279.7	256.5	242.8	233.5	231.6	232.8
40°	5286.5	2343.3	1083.0	552.5	302.7	271.0	249.1	237.8	227.8	224.7	225.3
42.5°	5478.8	2285.2	1055.6	539.3	292.7	264.6	244.0	234.1	222.9	219.7	219.1
45°	5686.6	2265.9	1019.4	513.1	297.7	265.3	242.8	232.1	220.9	217.2	216.0
47.5°	5960.6	2326.4	981.9	482.0	308.3	268.4	244.7	232.1	220.3	217.2	216.0
50°	6305.8	2468.8	934.5	436.4	297.7	277.2	244.0	230.3	220.3	217.2	214.7
52.5°	6749.1	2661.0	872.0	383.9	291.5	298.4	242.8	226.6	217.2	212.8	208.4
55°	7287.7	2818.4	797.7	340.8	277.2	292.7	240.9	222.3	212.2	206.0	202.2
57.5°	7682.2	2875.1	702.2	312.7	257.2	283.4	238.4	216.6	206.0	201.0	196.0
60°	7604.2	2765.3	621.6	295.2	245.3	255.8	236.5	211.6	200.4	196.6	192.3
62.5°	6979.4	2478.1	569.9	287.2	237.8	233.5	238.4	206.6	195.3	191.6	190.4
65°	6042.5	2054.3	549.3	285.2	231.6	220.3	221.6	201.0	189.8	186.7	185.4
67.5°	4984.4	1657.9	531.2	291.5	223.4	211.0	204.8	193.5	184.1	181.1	178.5
70°	3930.7	1378.9	523.2	287.8	213.5	201.6	194.8	185.4	177.3	174.2	172.3
72.5°	3165.3	1164.8	518.8	284.0	200.4	189.1	182.9	174.9	166.1	164.8	162.9
75°	2678.5	915.7	475.1	272.2	185.4	174.2	169.8	162.2	153.5	153.5	152.3
77.5°	2066.2	662.3	395.1	240.9	169.8	157.4	153.5	147.9	138.0	139.9	139.2
80°	1526.3	432.0	308.9	199.7	150.4	138.5	136.7	131.1	120.5	122.9	122.9
82.5°	1045.6	283.4	222.3	163.6	128.6	117.4	117.4	111.8	99.9	101.2	104.9
85°	525.0	194.8	166.1	126.7	99.9	94.3	94.3	89.9	78.0	78.6	83.7
87.5°	159.8	117.4	110.0	90.4	71.8	70.6	67.4	64.3	56.9	56.2	59.3
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°	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4
2.5°	3309.0	3273.4	3230.4	3135.4	3103.6	3101.8	3130.5	3100.4	3157.9	3133.5	3160.5
5°	2668.5	2633.5	2585.5	2464.5	2390.7	2340.8	2317.1	2247.1	2297.7	2260.9	2291.5
7.5°	1962.6	1970.6	1938.8	1867.7	1707.2	1626.8	1579.3	1536.8	1573.7	1569.9	1628.6
10°	1379.5	1401.4	1378.9	1307.1	1177.3	1132.9	1141.6	1158.5	1206.7	1231.6	1322.0
12.5°	993.1	991.8	977.6	913.2	827.7	832.7	868.3	897.7	942.0	968.1	1060.6
15°	741.6	730.3	724.1	671.6	623.0	633.6	651.0	654.1	682.3	697.8	772.8
17.5°	560.5	566.2	573.1	535.6	498.8	491.8	478.1	461.3	469.4	472.5	510.0
20°	445.0	467.5	484.3	458.2	420.7	400.8	383.3	372.0	372.0	371.4	382.0
22.5°	388.9	405.2	423.3	405.2	371.4	353.9	343.9	335.2	334.0	334.0	343.9
25°	358.3	370.2	387.7	375.2	350.1	337.1	327.7	316.6	312.2	310.9	317.7
27.5°	343.3	348.3	357.1	345.8	324.6	318.4	315.9	305.8	300.3	297.0	304.0
30°	317.7	316.6	317.1	305.8	289.0	288.3	292.7	294.7	292.7	292.2	302.7
32.5°	294.0	291.5	290.8	280.9	265.3	261.5	265.3	269.0	273.3	279.7	292.2
35°	264.1	270.3	274.0	265.3	246.6	235.4	231.0	224.1	220.3	220.3	234.7
37.5°	240.4	254.7	260.2	252.2	231.6	216.0	208.4	207.3	207.8	210.4	224.1
40°	232.1	242.8	247.8	239.8	219.1	204.8	200.4	199.2	200.4	204.1	217.9
42.5°	227.3	234.7	234.1	224.1	207.3	197.2	194.8	193.5	194.8	198.6	213.5
45°	222.9	227.8	222.9	211.0	195.3	190.4	190.9	190.4	191.6	195.3	209.8
47.5°	219.1	220.9	214.7	202.9	186.7	185.4	187.9	189.8	190.9	194.2	209.1
50°	213.5	213.5	207.8	195.3	179.1	179.7	182.9	187.3	187.9	191.6	203.4
52.5°	206.6	206.0	202.2	190.4	172.9	174.9	174.9	179.7	181.1	185.4	197.9
55°	201.0	199.7	197.9	186.7	167.2	170.5	168.6	170.5	173.5	177.9	191.6
57.5°	196.0	193.5	193.5	183.5	162.9	164.2	159.8	162.2	166.1	169.8	184.1
60°	190.9	188.5	189.8	179.1	156.0	154.8	153.0	157.9	159.2	163.6	177.9
62.5°	185.4	183.5	184.1	174.2	151.1	147.9	147.9	152.3	153.0	159.2	172.9
65°	181.1	178.5	177.9	169.2	145.5	141.7	143.5	145.5	146.7	153.0	166.1
67.5°	176.7	171.6	171.6	164.8	139.2	135.5	139.2	138.5	140.4	146.1	156.7
70°	171.0	164.2	164.8	161.7	133.0	128.6	131.6	131.1	132.3	136.0	146.7
72.5°	162.2	156.7	157.9	156.7	126.7	120.5	121.8	121.8	121.8	124.9	136.0
75°	151.1	146.7	150.4	153.5	119.2	110.5	111.8	111.8	110.0	111.8	125.4
77.5°	137.3	134.8	147.3	142.9	110.5	99.9	99.9	98.7	94.8	97.4	112.3
80°	122.4	120.5	136.0	119.8	100.5	86.8	85.5	82.4	78.6	80.6	95.5
82.5°	106.7	104.9	114.2	91.8	86.8	71.8	68.7	63.1	59.3	61.1	75.0
85°	87.4	87.4	88.1	69.3	66.2	54.9	51.2	43.7	39.4	40.5	53.6
87.5°	62.4	64.3	59.3	47.4	39.4	30.6	28.1	23.7	20.0	23.1	28.1
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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CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-7030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4	3836.4
2.5°	3297.8	3366.4	3444.4	3544.3	3629.8	3770.3	3905.2	3986.3
5°	2465.7	2579.9	2722.2	2905.1	3075.5	3331.5	3585.5	3748.4
7.5°	1764.6	1887.0	2040.5	2269.0	2510.0	2836.5	3172.3	3367.1
10°	1460.0	1585.5	1714.8	1868.9	2066.2	2421.3	2818.4	3038.1
12.5°	1207.9	1342.0	1481.2	1643.6	1826.5	2143.5	2601.1	2854.0
15°	924.5	1074.2	1238.5	1443.9	1672.9	2039.4	2547.4	2822.0
17.5°	633.6	800.9	1002.5	1255.9	1536.1	2005.6	2643.5	2960.1
20°	436.4	558.1	773.4	1070.5	1407.6	2001.2	2828.2	3224.7
22.5°	365.2	419.4	576.8	900.1	1310.9	2054.9	3114.9	3596.2
25°	337.7	370.2	460.6	752.1	1240.3	2178.5	3509.3	4076.8
27.5°	321.4	350.8	418.3	655.4	1184.8	2322.1	3893.2	4542.5
30°	327.7	357.8	406.3	606.1	1109.2	2442.0	4234.1	4905.7
32.5°	295.2	308.3	348.3	562.4	1054.9	2542.5	4532.4	5206.6
35°	251.6	274.7	310.9	541.8	1056.2	2609.8	4857.6	5591.2
37.5°	239.8	262.8	289.0	534.3	1070.5	2681.7	5230.9	6041.8
40°	232.1	253.5	275.9	529.9	1084.3	2747.3	5596.7	6487.5
42.5°	227.3	246.6	274.7	514.9	1091.2	2805.9	5897.6	6866.4
45°	226.6	246.6	279.7	500.0	1101.8	2868.9	6149.7	7146.6
47.5°	227.3	254.7	270.3	482.0	1101.8	2974.4	6445.6	7397.0
50°	224.7	268.4	260.2	456.2	1076.2	3174.1	6851.4	7732.2
52.5°	223.4	266.6	240.9	417.0	1031.9	3491.3	7371.4	8194.1
55°	220.3	257.2	227.3	358.3	980.0	3837.0	7928.2	8740.3
57.5°	217.2	227.8	219.7	307.1	900.1	4080.5	8311.5	9166.7
60°	243.4	199.2	213.5	282.1	793.3	4147.3	8296.5	9336.4
62.5°	225.3	186.7	205.4	276.5	718.5	3960.0	7913.2	9244.7
65°	176.7	178.5	197.2	292.7	698.5	3463.7	7234.0	8820.8
67.5°	161.7	170.5	189.1	313.3	700.4	2773.4	6219.0	7897.6
70°	152.3	161.7	179.7	324.0	705.4	2067.4	4917.0	6432.5
72.5°	141.7	149.8	169.2	325.8	672.9	1501.9	3789.6	4729.8
75°	129.3	136.7	154.2	284.0	557.4	1041.8	2898.8	3235.9
77.5°	114.8	120.5	135.5	219.1	413.9	666.7	2176.0	2364.0
80°	98.0	101.2	113.6	160.4	283.4	417.0	1721.6	1897.0
82.5°	78.6	79.9	88.1	120.5	184.1	267.8	1152.9	1315.8
85°	55.5	55.5	60.5	87.4	125.4	169.8	626.0	694.2
87.5°	26.2	26.9	26.9	48.1	65.5	86.1	144.2	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)