

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: P193812

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193812  
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-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 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: 11345 lumens  
Efficiency: N/A  
Efficacy: 87.9 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

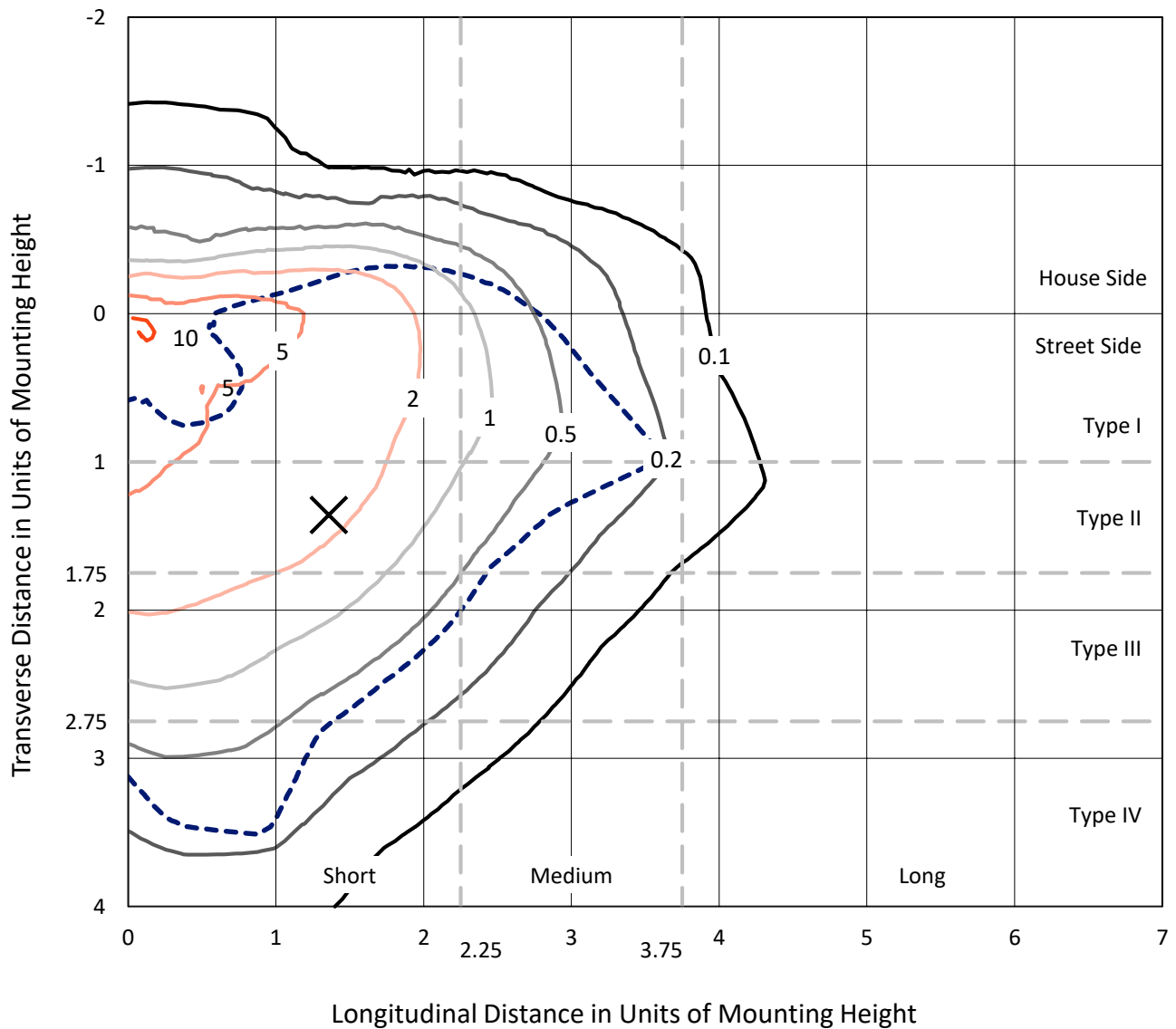


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### Iso-Footcandle Lines of Horizontal Illumination

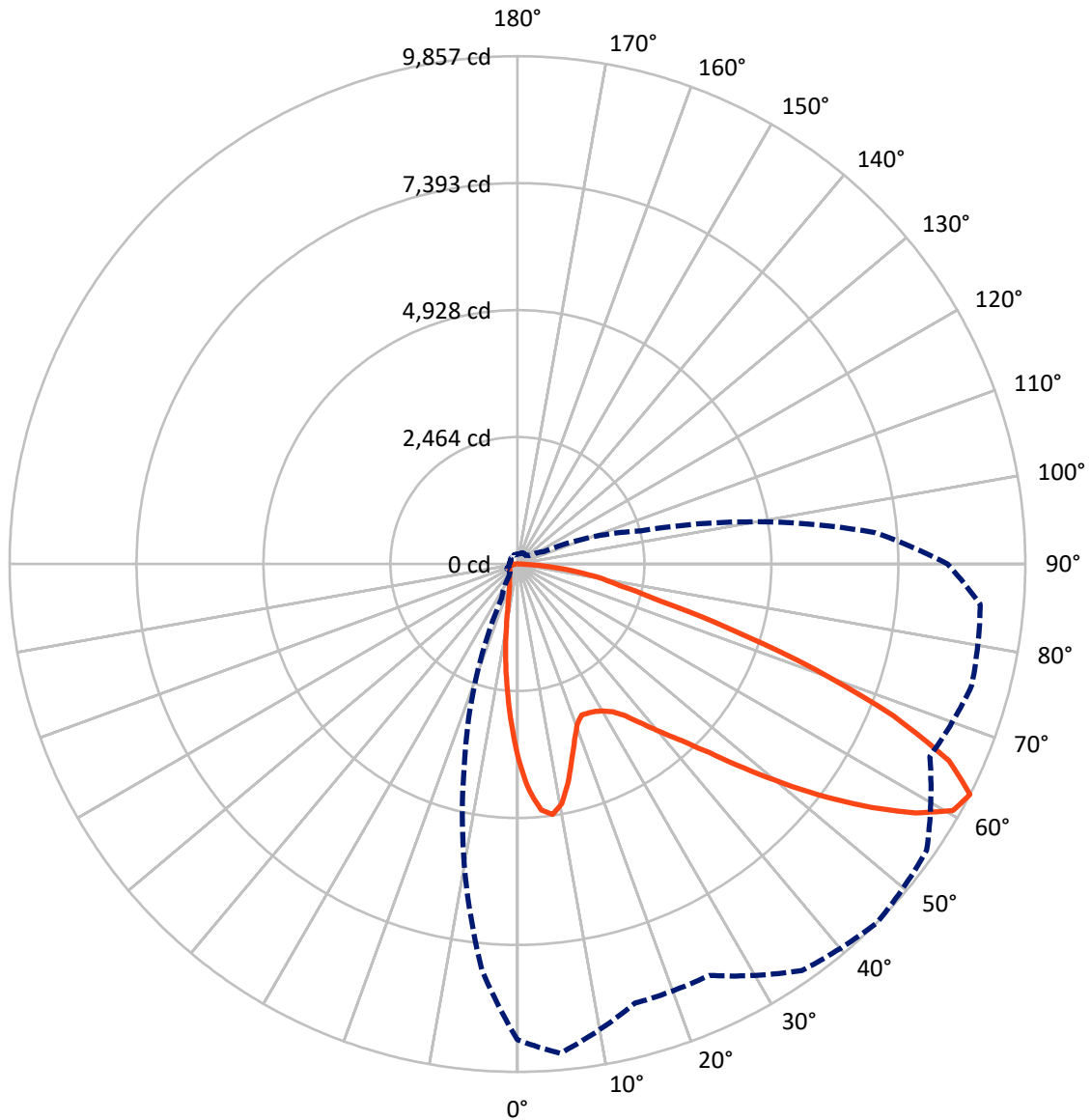
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1877.4	0.0	1877.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	9467.6	0.0	9467.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	11345.0	0.0	11345.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.0	2.5
10°-20°	511.7	4.5
20°-30°	746.0	6.6
30°-40°	1148.9	10.1
40°-50°	1690.9	14.9
50°-60°	2480.2	21.9
60°-70°	2772.5	24.4
70°-80°	1357.4	12.0
80°-90°	358.4	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°	11345.0	100.0
0°-180°	11345.0	100.0

**Coefficient of Utilization**



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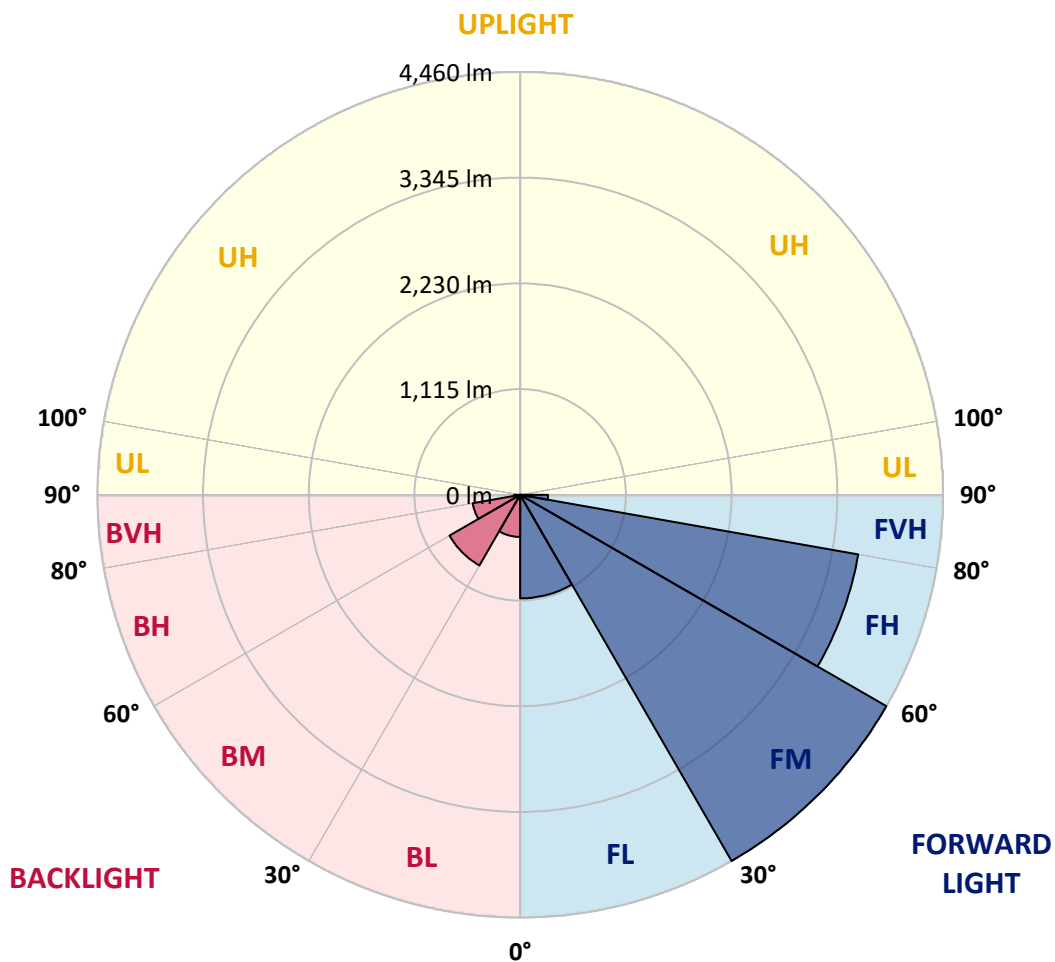
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-8030-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.5	9.6			
FM (30°-60°)	4459.8	39.3			
FH (60°-80°)	3620.9	31.9			G2/5000
FVH (80°-90°)	294.3	2.6			G3/500
BL (0°-30°)	444.2	3.9	B1/500		
BM (30°-60°)	860.2	7.6	B1/1000		
BH (60°-80°)	509.0	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°	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0
2.5°	3982.6	4046.2	4170.3	4263.3	4376.2	4402.3	4438.5	4403.0	4340.0	4256.4	4229.0
5°	3745.0	3881.0	4182.2	4447.2	4683.0	4792.7	4823.3	4732.9	4550.1	4310.0	4163.5
7.5°	3364.0	3557.3	3965.2	4355.6	4702.9	4908.1	4903.1	4693.0	4356.8	3965.8	3730.7
10°	3035.3	3256.1	3723.8	4160.4	4528.9	4727.9	4651.2	4382.4	3981.4	3531.1	3276.0
12.5°	2851.3	3067.7	3542.3	3980.8	4288.8	4357.4	4298.8	4035.6	3657.7	3202.4	2979.2
15°	2819.5	3057.1	3470.0	3826.7	3999.5	3939.6	3869.7	3751.9	3485.0	3096.4	2863.8
17.5°	2957.3	3219.3	3552.9	3719.4	3690.1	3586.0	3566.0	3579.1	3514.9	3214.3	2946.1
20°	3221.8	3536.1	3750.6	3668.9	3455.0	3311.6	3316.6	3516.8	3707.0	3513.0	3206.8
22.5°	3592.8	3951.4	4035.6	3695.7	3355.9	3185.6	3226.8	3551.1	4013.2	3949.6	3558.5
25°	4073.1	4399.8	4339.4	3793.0	3365.8	3201.2	3234.2	3669.6	4374.9	4386.1	3993.9
27.5°	4538.3	4841.4	4594.4	3922.1	3407.0	3238.0	3281.6	3856.0	4720.4	4860.1	4491.5
30°	4901.3	5112.1	4695.5	4040.0	3488.1	3309.7	3364.0	4033.1	4877.6	5180.0	4874.4
32.5°	5201.9	5353.4	4856.4	4185.9	3637.1	3422.6	3518.0	4248.3	5104.0	5484.4	5249.3
35°	5586.0	5629.1	5056.6	4348.7	3867.3	3619.0	3737.5	4459.1	5319.7	5791.8	5618.5
37.5°	6036.3	5980.8	5245.5	4571.4	4164.7	3926.5	4024.4	4690.5	5497.5	6140.5	5995.8
40°	6481.6	6348.1	5482.5	4916.9	4598.8	4288.8	4404.8	4937.4	5663.4	6489.7	6364.3
42.5°	6860.1	6662.5	5716.4	5296.7	5002.9	4688.6	4827.1	5186.3	5821.8	6787.8	6684.3
45°	7140.2	6894.4	5939.0	5661.5	5559.8	5219.9	5285.4	5471.3	5993.3	7036.6	6947.5
47.5°	7390.3	7127.7	6191.0	6029.4	6046.9	5911.0	5805.6	5803.1	6195.3	7240.0	7196.3
50°	7725.2	7451.4	6461.6	6408.6	6777.8	6687.4	6454.8	6190.3	6451.0	7470.7	7465.7
52.5°	8186.7	7964.0	6792.2	6817.1	7460.1	7519.3	7231.2	6655.6	6851.4	7894.2	7864.2
55°	8732.3	8602.6	7242.4	7286.7	8297.0	8339.4	8053.2	7237.5	7440.1	8507.2	8424.3
57.5°	9158.3	9130.9	7736.4	7850.5	8921.9	9112.8	8849.6	7911.0	8103.7	9023.6	8815.3
60°	9327.9	9460.8	8262.1	8419.3	9500.1	9711.5	9480.7	8502.8	8691.8	9237.5	8788.5
62.5°	9236.3	9533.1	8822.2	8809.1	9629.2	9856.8	9694.6	8832.1	9127.7	9016.7	8343.8
65°	8812.8	9273.0	9147.1	8708.6	9187.6	9206.3	9153.9	8684.9	9230.6	8318.9	7484.4
67.5°	7890.4	8552.7	8719.2	7848.0	7996.4	7874.8	7786.9	7879.2	8694.3	7273.0	6290.1
70°	6426.7	7423.3	7503.1	6277.0	6209.7	6128.0	5952.7	6459.8	7636.0	5960.8	4991.1
72.5°	4725.4	5773.1	6018.2	4603.8	4292.0	4308.8	4170.3	4868.2	6208.4	4427.9	3726.3
75°	3233.0	4180.3	4708.6	3212.4	2838.2	2845.1	2827.6	3449.4	4944.9	3080.2	2788.3
77.5°	2361.8	2986.7	3551.1	2159.7	2096.7	2058.0	2048.7	2413.5	3791.2	2236.4	2165.3
80°	1895.3	2206.5	2385.5	1496.8	1609.6	1606.5	1554.8	1659.5	2475.9	1635.8	1619.6
82.5°	1314.7	1695.7	1932.7	1173.1	1086.4	1068.3	1080.8	1236.1	1750.0	1118.2	1063.3
85°	693.5	1126.3	1914.0	1039.6	644.9	514.5	639.9	1012.2	1516.1	592.5	518.9
87.5°	88.6	325.5	1267.3	414.7	254.4	137.2	303.7	570.0	973.5	121.0	105.4
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°	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0
2.5°	4158.5	4075.6	3967.0	3866.6	3762.5	3659.0	3523.6	3438.8	3380.2	3369.0	3344.0
5°	4057.5	3781.8	3573.5	3393.3	3229.9	2999.1	2871.3	2765.3	2708.5	2702.9	2689.2
7.5°	3591.6	3211.2	2929.9	2674.8	2443.5	2257.0	2051.2	1955.1	1915.9	1925.2	1934.6
10°	3107.0	2681.7	2358.6	2098.0	1894.0	1736.9	1571.6	1460.0	1382.6	1367.0	1363.9
12.5°	2752.8	2286.3	1972.6	1788.6	1630.8	1483.0	1307.8	1176.2	1075.8	1041.5	1018.4
15°	2603.1	2093.0	1764.3	1566.0	1392.0	1204.3	1041.5	903.7	811.4	781.4	764.6
17.5°	2634.9	2039.3	1620.9	1367.0	1144.4	948.6	743.4	625.5	570.0	555.7	555.7
20°	2802.1	2029.4	1502.4	1183.7	906.2	679.2	510.8	443.4	425.3	423.5	428.4
22.5°	3036.6	2064.3	1413.8	1024.7	704.1	495.8	397.9	372.9	364.8	366.7	372.3
25°	3385.8	2182.2	1349.6	883.1	552.6	406.0	354.9	339.9	336.1	341.1	348.0
27.5°	3799.9	2300.0	1309.7	776.4	466.5	371.1	337.4	321.8	324.3	330.5	336.8
30°	4163.5	2396.7	1246.7	700.4	439.7	372.9	337.4	316.2	313.7	314.9	316.8
32.5°	4489.7	2462.2	1173.1	628.0	379.2	331.2	314.9	311.8	298.1	293.1	293.7
35°	4770.9	2462.2	1128.8	585.6	339.9	293.7	267.5	252.0	245.1	245.7	252.6
37.5°	5042.2	2412.9	1107.0	561.9	318.7	279.4	256.3	242.6	233.2	231.4	232.6
40°	5281.7	2341.2	1082.0	551.9	302.5	270.7	248.8	237.6	227.6	224.5	225.1
42.5°	5473.8	2283.2	1054.6	538.8	292.5	264.4	243.8	233.9	222.6	219.5	218.9
45°	5681.5	2263.8	1018.4	512.6	297.5	265.1	242.6	232.0	220.8	217.0	215.8
47.5°	5955.2	2324.3	981.0	481.5	308.1	268.2	244.5	232.0	220.1	217.0	215.8
50°	6300.1	2466.5	933.6	435.9	297.5	276.9	243.8	230.1	220.1	217.0	214.5
52.5°	6742.9	2658.6	871.2	383.5	291.2	298.1	242.6	226.4	217.0	212.7	208.3
55°	7281.1	2815.8	797.0	340.5	276.9	292.5	240.7	222.0	212.0	205.8	202.1
57.5°	7675.3	2872.5	701.6	312.4	256.9	283.1	238.2	216.4	205.8	200.8	195.8
60°	7597.3	2762.8	621.2	295.0	245.1	255.7	236.4	211.4	200.2	196.4	192.1
62.5°	6973.0	2475.9	569.4	286.9	237.6	233.2	238.2	206.4	195.2	191.5	190.2
65°	6036.9	2052.4	548.8	285.0	231.4	220.1	221.4	200.8	189.6	186.5	185.2
67.5°	4979.8	1656.4	530.7	291.2	223.3	210.8	204.6	193.3	184.0	180.9	178.4
70°	3927.1	1377.6	522.6	287.5	213.3	201.4	194.6	185.2	177.1	174.0	172.1
72.5°	3162.5	1163.7	518.3	283.8	200.2	189.0	182.7	174.6	165.9	164.6	162.8
75°	2676.1	914.9	474.6	271.9	185.2	174.0	169.6	162.1	153.4	153.4	152.2
77.5°	2064.3	661.7	394.8	240.7	169.6	157.2	153.4	147.8	137.8	139.7	139.1
80°	1524.8	431.6	308.7	199.6	150.3	138.5	136.6	131.0	120.4	122.9	122.9
82.5°	1044.6	283.1	222.0	163.4	128.5	117.2	117.2	111.6	99.8	101.0	104.8
85°	524.5	194.6	165.9	126.6	99.8	94.2	94.2	89.8	78.0	78.6	83.6
87.5°	159.7	117.2	109.8	90.4	71.7	70.5	67.4	64.2	56.8	56.1	59.2
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0
2.5°	3306.0	3270.4	3227.4	3132.6	3100.8	3098.9	3127.6	3097.7	3155.0	3130.7	3157.5
5°	2666.1	2631.2	2583.2	2462.2	2388.6	2338.7	2315.0	2245.1	2295.7	2258.9	2289.4
7.5°	1960.8	1968.9	1937.1	1866.0	1705.7	1625.2	1577.8	1535.4	1572.2	1568.5	1627.1
10°	1378.3	1400.1	1377.6	1305.9	1176.2	1131.9	1140.7	1157.5	1205.5	1230.5	1320.9
12.5°	992.2	991.0	976.6	912.4	827.0	831.9	867.5	896.8	941.1	967.3	1059.6
15°	740.9	729.7	723.4	671.0	622.4	633.0	650.5	653.6	681.6	697.2	772.1
17.5°	560.0	565.7	572.5	535.1	498.3	491.4	477.7	460.9	469.0	472.1	509.5
20°	444.7	467.1	484.0	457.8	420.3	400.4	382.9	371.7	371.7	371.1	381.7
22.5°	388.5	404.7	422.8	404.7	371.1	353.6	343.6	334.9	333.7	333.7	343.6
25°	358.0	369.8	387.3	374.8	349.9	336.8	327.4	316.2	311.8	310.6	317.4
27.5°	343.0	348.0	356.7	345.5	324.3	318.1	315.6	305.6	300.0	296.9	303.7
30°	317.4	316.2	316.8	305.6	288.7	288.1	292.5	294.4	292.5	291.9	302.5
32.5°	293.7	291.2	290.6	280.6	265.1	261.3	265.1	268.8	273.2	279.4	291.9
35°	263.8	270.0	273.8	265.1	246.3	235.1	230.8	223.9	220.1	220.1	234.5
37.5°	240.1	254.4	260.1	252.0	231.4	215.8	208.3	207.1	207.7	210.2	223.9
40°	232.0	242.6	247.6	239.5	218.9	204.6	200.2	198.9	200.2	203.9	217.7
42.5°	227.0	234.5	233.9	223.9	207.1	197.1	194.6	193.3	194.6	198.3	213.3
45°	222.6	227.6	222.6	210.8	195.2	190.2	190.8	190.2	191.5	195.2	209.5
47.5°	218.9	220.8	214.5	202.7	186.5	185.2	187.7	189.6	190.8	194.0	208.9
50°	213.3	213.3	207.7	195.2	179.0	179.6	182.7	187.1	187.7	191.5	203.3
52.5°	206.4	205.8	202.1	190.2	172.8	174.6	174.6	179.6	180.9	185.2	197.7
55°	200.8	199.6	197.7	186.5	167.1	170.3	168.4	170.3	173.4	177.7	191.5
57.5°	195.8	193.3	193.3	183.4	162.8	164.0	159.7	162.1	165.9	169.6	184.0
60°	190.8	188.3	189.6	179.0	155.9	154.7	152.8	157.8	159.0	163.4	177.7
62.5°	185.2	183.4	184.0	174.0	150.9	147.8	147.8	152.2	152.8	159.0	172.8
65°	180.9	178.4	177.7	169.0	145.3	141.6	143.4	145.3	146.6	152.8	165.9
67.5°	176.5	171.5	171.5	164.6	139.1	135.3	139.1	138.5	140.3	145.9	156.5
70°	170.9	164.0	164.6	161.5	132.8	128.5	131.6	131.0	132.2	136.0	146.6
72.5°	162.1	156.5	157.8	156.5	126.6	120.4	121.6	121.6	121.6	124.7	136.0
75°	150.9	146.6	150.3	153.4	119.1	110.4	111.6	111.6	109.8	111.6	125.4
77.5°	137.2	134.7	147.2	142.8	110.4	99.8	99.8	98.5	94.8	97.3	112.3
80°	122.2	120.4	136.0	119.7	100.4	86.7	85.4	82.3	78.6	80.5	95.4
82.5°	106.6	104.8	114.1	91.7	86.7	71.7	68.6	63.0	59.2	61.1	74.8
85°	87.3	87.3	87.9	69.2	66.1	54.9	51.1	43.7	39.3	40.5	53.6
87.5°	62.4	64.2	59.2	47.4	39.3	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-04-LED-E1-SLL-8030-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0	3833.0
2.5°	3294.7	3363.3	3441.3	3541.1	3626.5	3766.8	3901.6	3982.6
5°	2463.4	2577.5	2719.7	2902.5	3072.7	3328.4	3582.2	3745.0
7.5°	1763.1	1885.3	2038.7	2267.0	2507.7	2833.9	3169.4	3364.0
10°	1458.7	1584.1	1713.2	1867.2	2064.3	2419.1	2815.8	3035.3
12.5°	1206.8	1340.8	1479.9	1642.1	1824.8	2141.6	2598.7	2851.3
15°	923.6	1073.3	1237.3	1442.5	1671.4	2037.5	2545.1	2819.5
17.5°	633.0	800.1	1001.6	1254.8	1534.8	2003.8	2641.2	2957.3
20°	435.9	557.5	772.7	1069.6	1406.3	1999.4	2825.8	3221.8
22.5°	364.8	419.1	576.3	899.3	1309.7	2053.1	3112.0	3592.8
25°	337.4	369.8	460.3	751.5	1239.2	2176.5	3506.2	4073.1
27.5°	321.2	350.5	417.8	654.8	1183.7	2320.0	3889.7	4538.3
30°	327.4	357.4	406.0	605.6	1108.2	2439.7	4230.2	4901.3
32.5°	295.0	308.1	348.0	561.9	1054.0	2540.1	4528.3	5201.9
35°	251.3	274.4	310.6	541.3	1055.2	2607.5	4853.2	5586.0
37.5°	239.5	262.6	288.7	533.8	1069.6	2679.2	5226.2	6036.3
40°	232.0	253.2	275.7	529.5	1083.3	2744.7	5591.6	6481.6
42.5°	227.0	246.3	274.4	514.5	1090.1	2803.3	5892.2	6860.1
45°	226.4	246.3	279.4	499.5	1100.7	2866.3	6144.2	7140.2
47.5°	227.0	254.4	270.0	481.5	1100.7	2971.7	6439.8	7390.3
50°	224.5	268.2	260.1	455.9	1075.2	3171.3	6845.2	7725.2
52.5°	223.3	266.3	240.7	416.6	1030.9	3488.1	7364.7	8186.7
55°	220.1	256.9	227.0	358.0	979.1	3833.6	7921.0	8732.3
57.5°	217.0	227.6	219.5	306.8	899.3	4076.8	8303.9	9158.3
60°	243.2	198.9	213.3	281.9	792.7	4143.5	8288.9	9327.9
62.5°	225.1	186.5	205.2	276.3	717.8	3956.4	7906.0	9236.3
65°	176.5	178.4	197.1	292.5	697.9	3460.6	7227.5	8812.8
67.5°	161.5	170.3	189.0	313.1	699.7	2770.9	6213.4	7890.4
70°	152.2	161.5	179.6	323.7	704.7	2065.5	4912.5	6426.7
72.5°	141.6	149.7	169.0	325.5	672.3	1500.5	3786.2	4725.4
75°	129.1	136.6	154.0	283.8	556.9	1040.9	2896.2	3233.0
77.5°	114.8	120.4	135.3	218.9	413.5	666.1	2174.0	2361.8
80°	97.9	101.0	113.5	160.3	283.1	416.6	1720.0	1895.3
82.5°	78.6	79.8	87.9	120.4	184.0	267.5	1151.9	1314.7
85°	55.5	55.5	60.5	87.3	125.4	169.6	625.5	693.5
87.5°	26.2	26.8	26.8	48.0	65.5	86.1	144.1	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)