

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: P193775

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL4-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21509 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

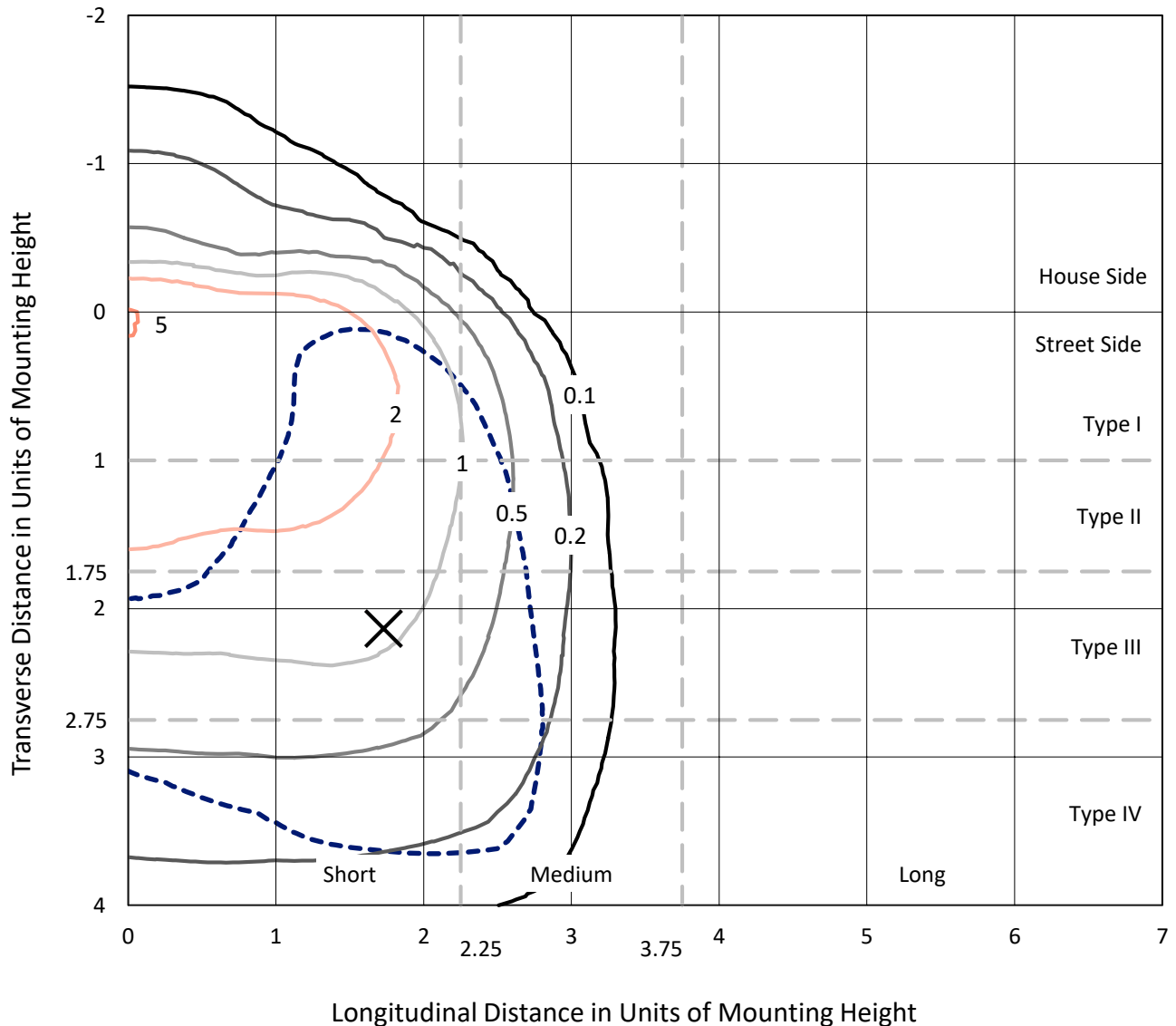
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193775
 CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-8030-600

Iso-Footcandle Lines of Horizontal Illumination

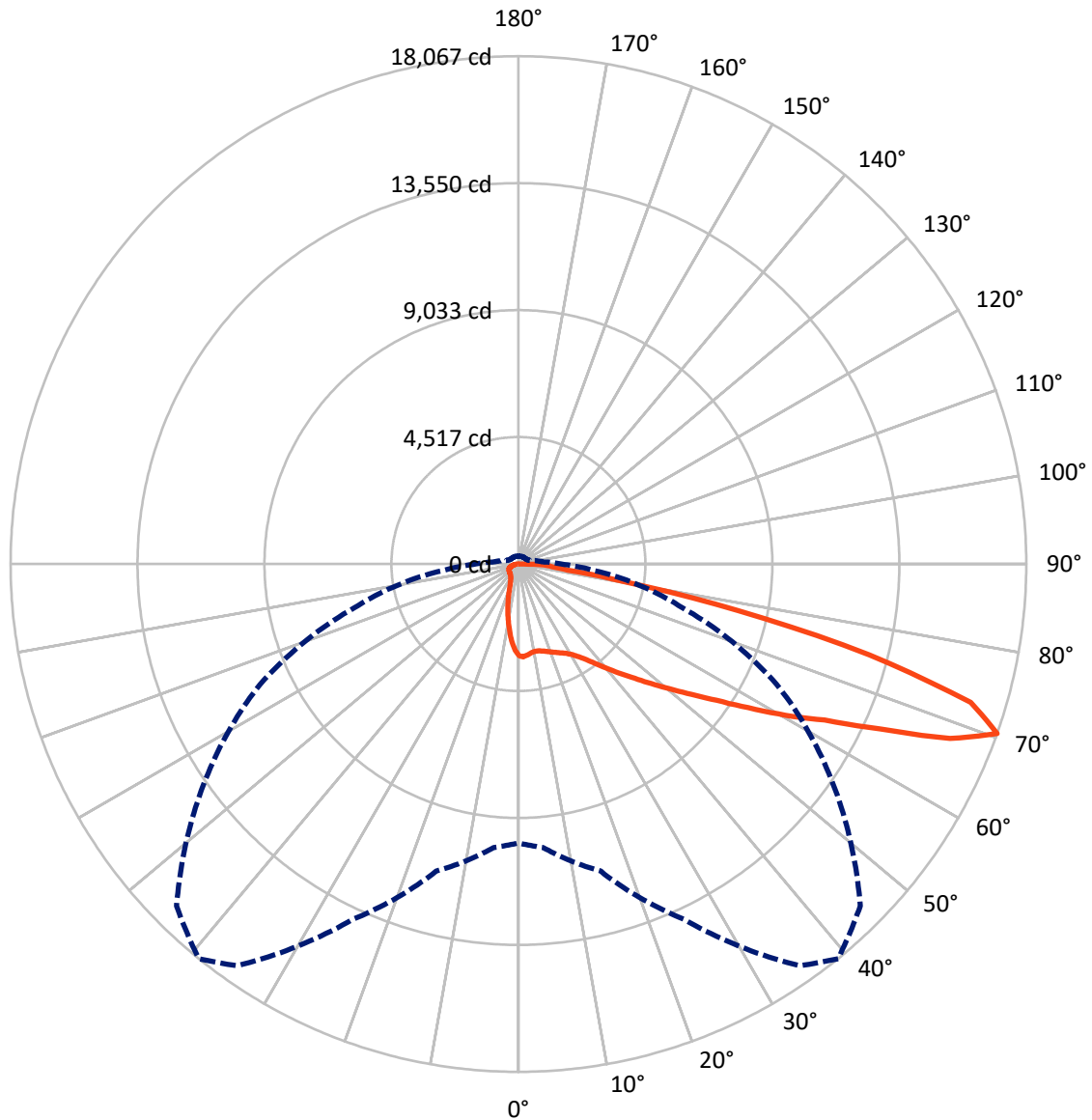
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193775
CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-8030-600

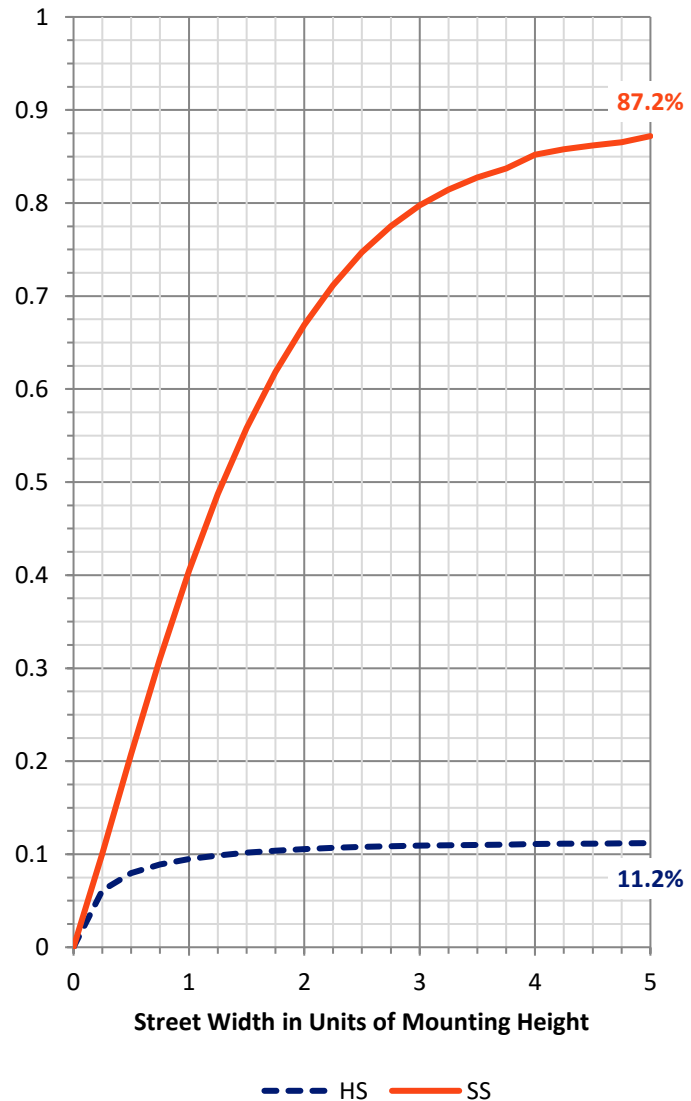
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2446.3	0.0	2446.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	19062.7	0.0	19062.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	21509.0	0.0	21509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	1.3
10°-20°	700.5	3.3
20°-30°	1090.7	5.1
30°-40°	1699.1	7.9
40°-50°	2852.4	13.3
50°-60°	4531.3	21.1
60°-70°	6044.3	28.1
70°-80°	3650.0	17.0
80°-90°	660.6	3.1
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°	21509.0	100.0
0°-180°	21509.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193775

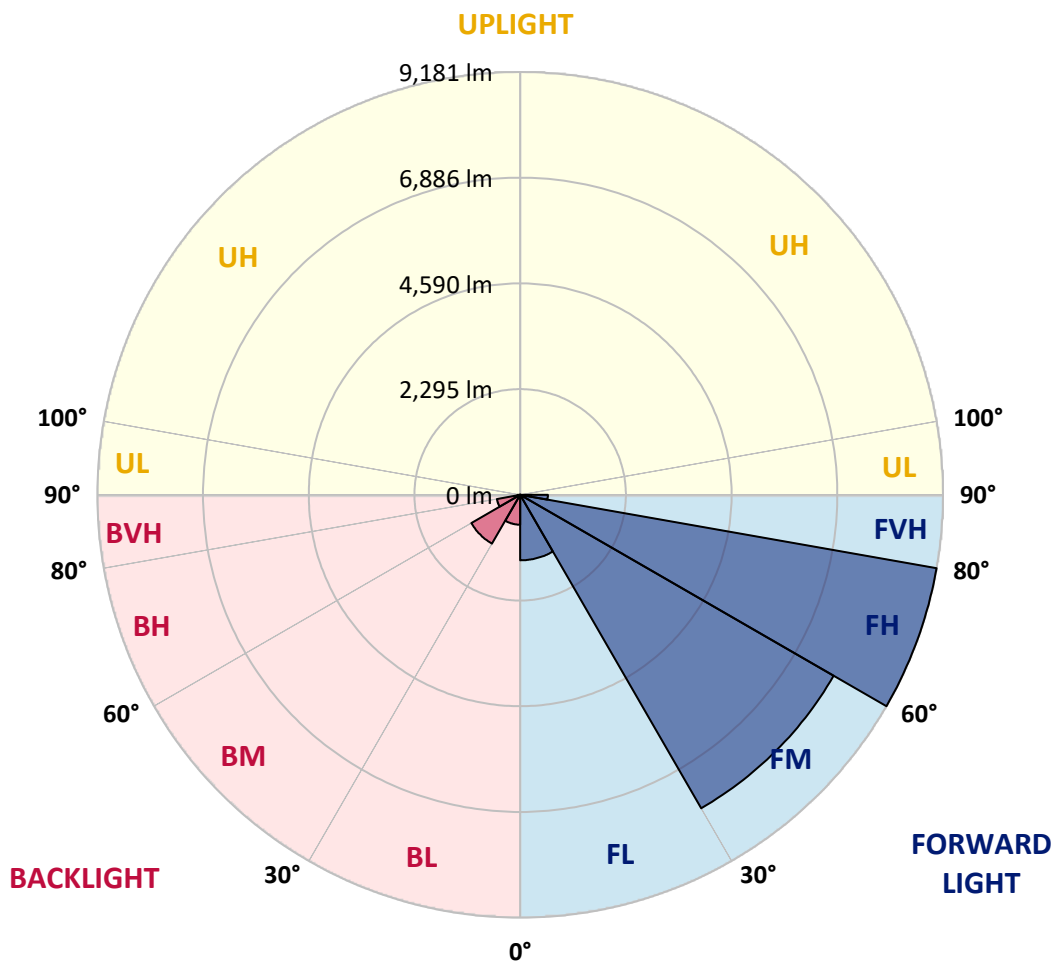
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1422.4	6.6			
FM	(30°-60°)	7858.6	36.5			
FH	(60°-80°)	9180.7	42.7			G4/12000
FVH	(80°-90°)	601.1	2.8			G4/750
BL	(0°-30°)	649.0	3.0	B2/1000		
BM	(30°-60°)	1224.2	5.7	B2/2500		
BH	(60°-80°)	513.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	59.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P193775

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4
2.5°	3328.8	3327.7	3319.0	3312.4	3307.0	3304.8	3309.1	3292.7	3278.5	3261.0	3242.4
5°	3303.7	3302.6	3288.4	3275.2	3262.1	3257.7	3256.7	3227.1	3209.6	3183.4	3148.4
7.5°	3276.3	3270.9	3252.3	3230.4	3207.4	3196.5	3185.6	3147.3	3127.6	3101.4	3060.9
10°	3247.9	3241.3	3223.8	3202.0	3180.1	3163.7	3145.1	3107.9	3087.1	3067.5	3020.4
12.5°	3218.4	3212.9	3208.5	3198.7	3183.4	3169.2	3154.9	3123.2	3101.4	3078.4	3023.7
15°	3214.0	3211.8	3221.7	3228.2	3219.5	3210.7	3195.4	3168.1	3145.1	3122.1	3051.1
17.5°	3249.0	3247.9	3273.1	3290.6	3286.2	3270.9	3250.1	3219.5	3200.9	3181.2	3092.6
20°	3325.5	3331.0	3361.6	3384.6	3362.7	3340.9	3307.0	3264.3	3254.5	3245.7	3135.3
22.5°	3469.9	3475.4	3497.2	3506.0	3449.1	3417.4	3370.4	3315.7	3309.1	3315.7	3186.7
25°	3695.2	3689.7	3686.4	3653.6	3549.7	3500.5	3440.4	3383.5	3386.8	3416.3	3258.8
27.5°	3993.7	3964.2	3918.3	3819.8	3654.7	3600.0	3526.8	3474.3	3495.0	3551.9	3367.1
30°	4303.2	4270.4	4164.3	4003.6	3792.5	3732.4	3650.3	3591.3	3646.0	3735.6	3511.5
32.5°	4589.7	4585.3	4430.1	4223.4	3982.8	3930.3	3848.3	3781.6	3870.1	4006.8	3728.0
35°	4902.5	4912.3	4726.4	4478.2	4239.8	4185.1	4126.0	4075.7	4193.8	4381.9	4041.8
37.5°	5237.1	5256.8	5037.0	4757.0	4532.8	4509.9	4474.9	4453.0	4635.6	4895.9	4480.4
40°	5684.4	5664.7	5359.6	5072.0	4892.6	4891.5	4880.6	4906.8	5210.9	5567.4	5043.5
42.5°	6163.4	6105.4	5701.9	5409.9	5287.4	5324.6	5346.5	5453.6	5903.1	6383.2	5730.3
45°	6679.5	6549.4	6057.3	5767.5	5725.9	5804.7	5879.0	6112.0	6717.8	7311.6	6482.7
47.5°	7091.8	6966.0	6424.7	6142.6	6233.3	6352.5	6495.8	6864.3	7629.8	8270.7	7225.2
50°	7416.6	7334.6	6795.4	6580.0	6792.2	6975.9	7209.9	7716.2	8579.1	9204.6	7913.1
52.5°	7731.5	7670.3	7169.4	7028.4	7448.3	7702.0	8020.2	8630.5	9552.3	10123.2	8491.6
55°	8015.9	7972.1	7571.9	7587.2	8220.4	8550.6	8950.9	9671.5	10613.1	10942.3	8981.5
57.5°	8336.3	8280.5	8031.2	8288.2	9212.2	9640.9	10161.5	10841.7	11608.2	11670.6	9354.4
60°	8658.9	8610.8	8540.8	9097.4	10472.0	10922.6	11415.8	11975.7	12617.6	12236.0	9332.5
62.5°	8938.8	8944.3	9067.9	9947.1	11705.6	12227.2	12828.7	13382.0	13530.7	12334.4	8642.5
65°	9413.4	9499.8	9868.4	11150.0	13442.2	14139.9	14878.0	14789.4	13783.4	11414.7	7162.9
67.5°	9977.7	10129.7	10876.6	12753.2	15637.0	16563.2	16848.6	15107.7	12771.8	9278.9	5105.9
70°	9920.9	10129.7	11311.9	13948.5	17445.7	18066.9	17200.8	13672.9	10141.8	6061.7	2712.1
72.5°	8809.8	9108.3	10425.0	13400.6	16876.0	16821.3	14932.7	10193.2	6025.6	2434.3	1059.7
75°	6714.5	7016.3	8149.3	10586.8	13338.3	12879.0	10595.6	5630.8	2286.7	966.7	668.2
77.5°	3862.5	4096.5	4971.4	6492.5	8462.0	7990.7	5897.6	2504.3	1113.3	673.6	521.6
80°	2156.5	2286.7	2818.1	3293.8	4146.8	3801.2	2638.8	1556.1	831.1	488.8	402.4
82.5°	1704.9	1820.8	2279.0	2077.8	1894.1	1747.5	1515.7	1385.6	663.8	308.4	240.6
85°	1489.4	1599.9	1929.1	1636.0	1293.7	1186.5	1231.4	1363.7	516.2	185.9	205.6
87.5°	1380.1	1527.7	1719.1	1260.9	1007.2	892.4	1136.2	1494.9	166.2	115.9	83.1
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: P193775

CATALOG NUMBER: GLEON-AF-07-LED-E1-SL4-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4
2.5°	3226.0	3208.5	3180.1	3154.9	3115.6	3094.8	3071.8	3055.4	3042.3	3031.4	3048.9
5°	3126.5	3093.7	3033.6	2969.0	2892.5	2832.3	2782.0	2735.0	2702.2	2680.3	2695.6
7.5°	3032.5	2978.9	2884.8	2767.8	2636.6	2525.1	2433.2	2352.3	2296.5	2260.4	2274.6
10°	2978.9	2912.2	2766.7	2583.0	2389.5	2215.6	2071.2	1946.6	1860.2	1811.0	1818.6
12.5°	2965.8	2879.4	2678.2	2425.5	2160.9	1919.2	1715.8	1543.0	1421.6	1358.2	1360.4
15°	2975.6	2865.2	2595.0	2274.6	1940.0	1634.9	1381.2	1171.2	1030.1	958.0	956.9
17.5°	2992.0	2854.2	2507.6	2111.7	1715.8	1361.5	1078.3	872.7	748.0	690.0	685.7
20°	3009.5	2836.7	2409.1	1935.6	1482.9	1107.8	844.2	683.5	604.7	573.0	570.8
22.5°	3034.7	2821.4	2307.4	1749.7	1254.3	902.2	694.4	586.2	544.6	528.2	526.0
25°	3075.1	2813.8	2199.2	1556.1	1048.7	754.6	604.7	538.0	514.0	503.0	501.9
27.5°	3142.9	2824.7	2097.5	1368.1	881.4	655.0	554.4	514.0	496.5	486.6	485.5
30°	3230.4	2858.6	1990.3	1189.8	751.3	587.2	523.8	497.6	483.4	473.5	473.5
32.5°	3375.9	2915.5	1877.7	1035.6	658.3	540.2	500.9	483.4	471.3	463.7	462.6
35°	3590.2	3022.6	1772.7	907.7	591.6	506.3	481.2	468.0	459.3	454.9	454.9
37.5°	3901.9	3192.1	1679.7	815.8	551.2	483.4	462.6	452.7	447.3	447.3	447.3
40°	4320.7	3426.2	1604.3	754.6	528.2	467.0	448.4	440.7	437.4	438.5	438.5
42.5°	4838.0	3730.2	1554.0	711.9	517.3	457.1	438.5	432.0	428.7	427.6	428.7
45°	5427.4	4075.7	1548.5	680.2	506.3	450.6	432.0	425.4	418.8	414.5	414.5
47.5°	6000.4	4426.8	1593.3	669.3	494.3	442.9	426.5	419.9	410.1	400.2	400.2
50°	6506.7	4725.3	1653.5	673.6	489.9	432.0	417.7	414.5	399.2	388.2	387.1
52.5°	6909.2	4955.0	1702.7	686.8	494.3	424.3	406.8	407.9	391.5	379.5	378.4
55°	7231.8	5105.9	1689.6	699.9	504.1	419.9	397.0	399.2	386.0	374.0	374.0
57.5°	7372.8	5050.1	1544.1	688.9	511.8	421.0	389.3	398.1	387.1	376.2	376.2
60°	7069.9	4554.7	1271.8	640.8	501.9	417.7	386.0	402.4	401.3	390.4	389.3
62.5°	6153.5	3667.8	986.4	569.7	468.0	401.3	377.3	401.3	413.4	410.1	409.0
65°	4742.8	2612.5	753.5	493.2	422.1	374.0	354.3	376.2	392.6	397.0	395.9
67.5°	3078.4	1601.0	580.7	421.0	370.7	342.3	324.8	334.6	337.9	337.9	335.7
70°	1513.5	861.7	462.6	354.3	318.2	308.4	298.5	293.1	287.6	283.2	283.2
72.5°	746.9	563.2	380.6	299.6	274.5	270.1	267.9	261.4	257.0	251.5	249.3
75°	552.3	458.2	323.7	252.6	236.2	231.8	236.2	230.7	229.6	225.3	223.1
77.5°	453.8	390.4	278.9	216.5	202.3	194.7	201.2	202.3	203.4	196.8	194.7
80°	368.5	330.3	232.9	179.3	166.2	160.8	165.1	173.9	176.1	166.2	161.8
82.5°	265.7	270.1	188.1	140.0	129.0	124.7	133.4	144.4	146.5	132.3	129.0
85°	223.1	225.3	144.4	99.5	88.6	82.0	96.2	107.2	114.8	100.6	97.3
87.5°	93.0	132.3	83.1	55.8	49.2	42.6	51.4	56.9	68.9	63.4	62.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)