

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: P651236

Luminaire Tested: **GALN-SA2D-840-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12967.4 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

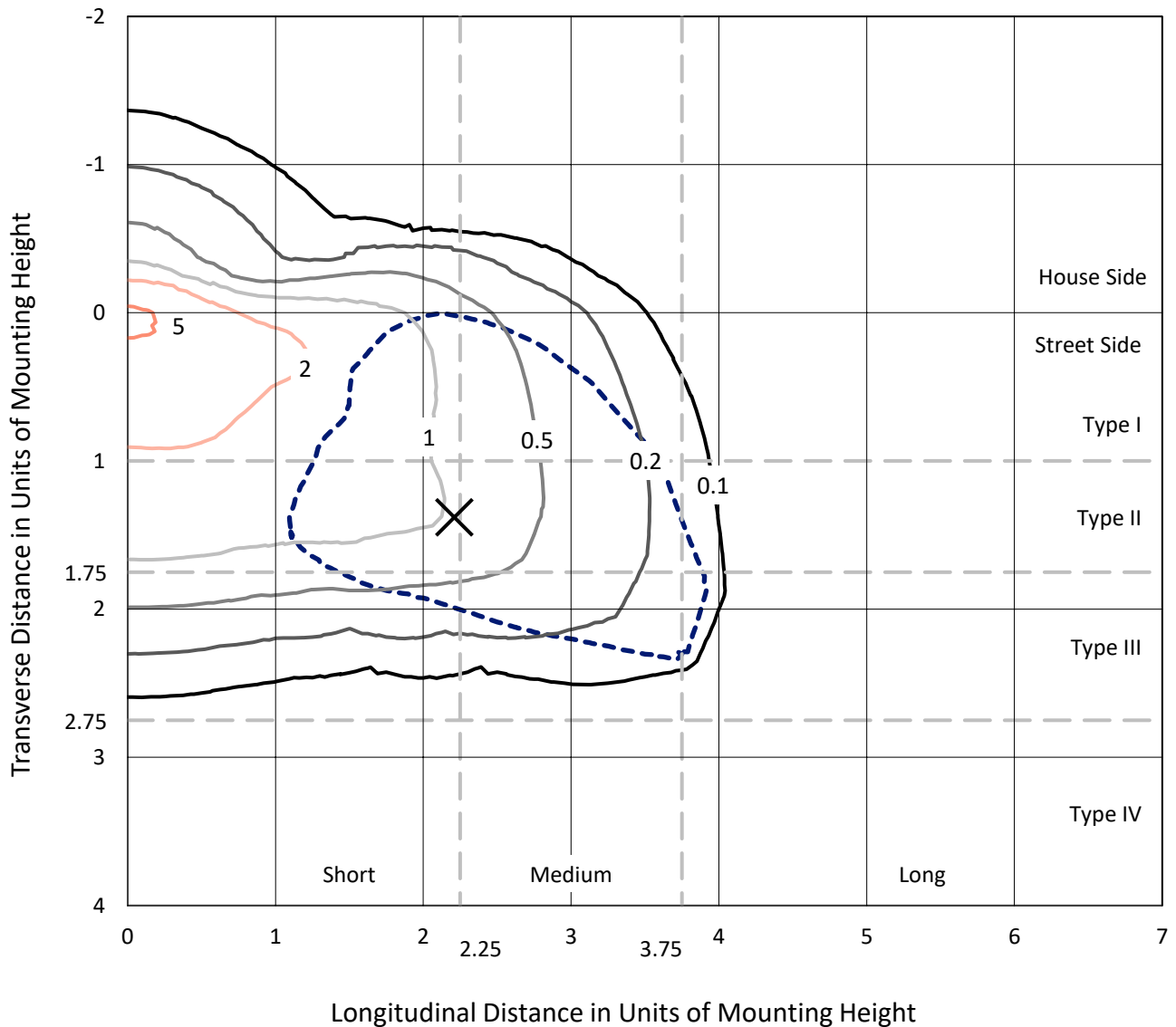
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651236  
 CATALOG NUMBER: GALN-SA2D-840-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

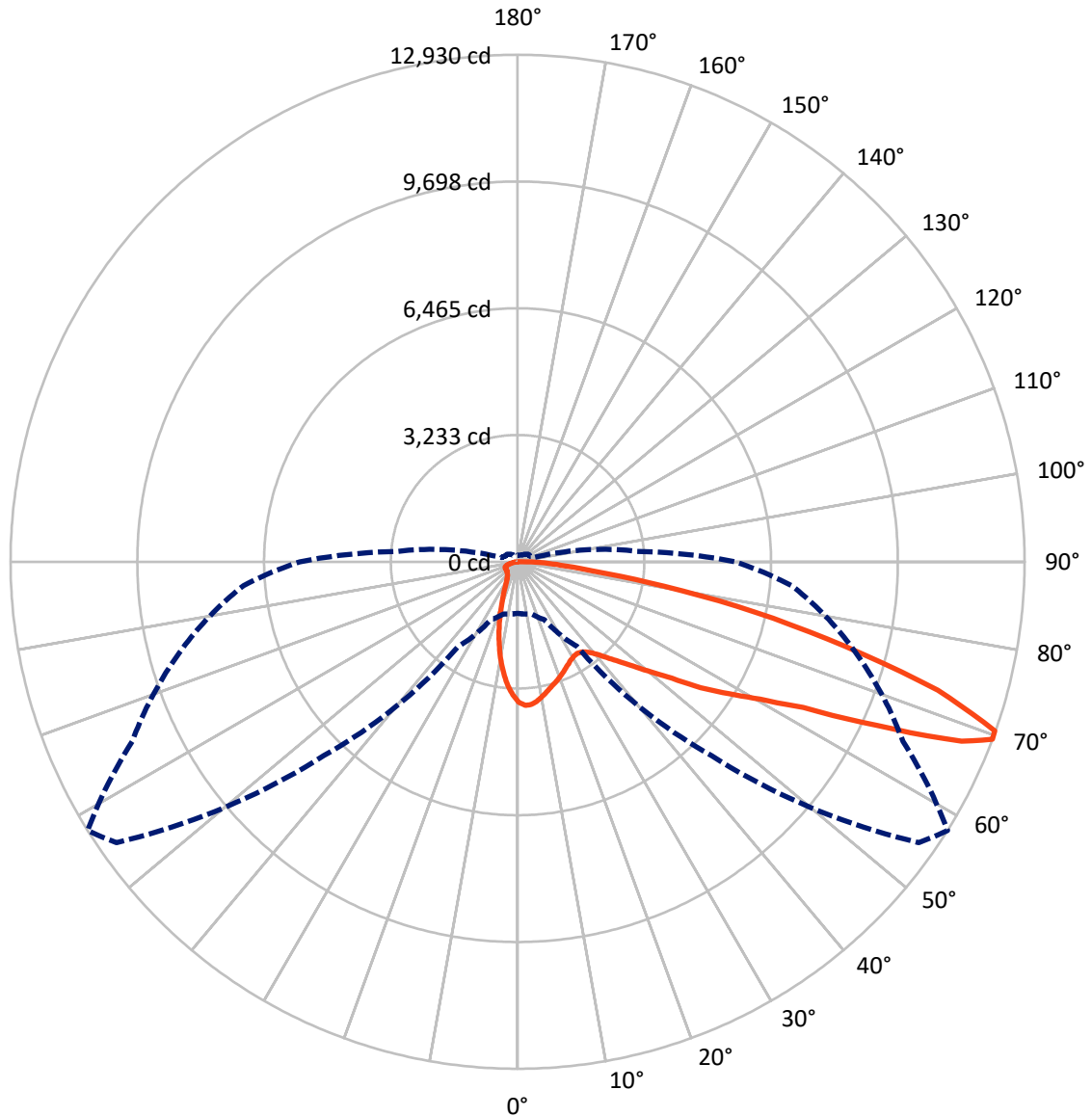
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P651236  
CATALOG NUMBER: GALN-SA2D-840-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P651236  
 CATALOG NUMBER: GALN-SA2D-840-U-SL3

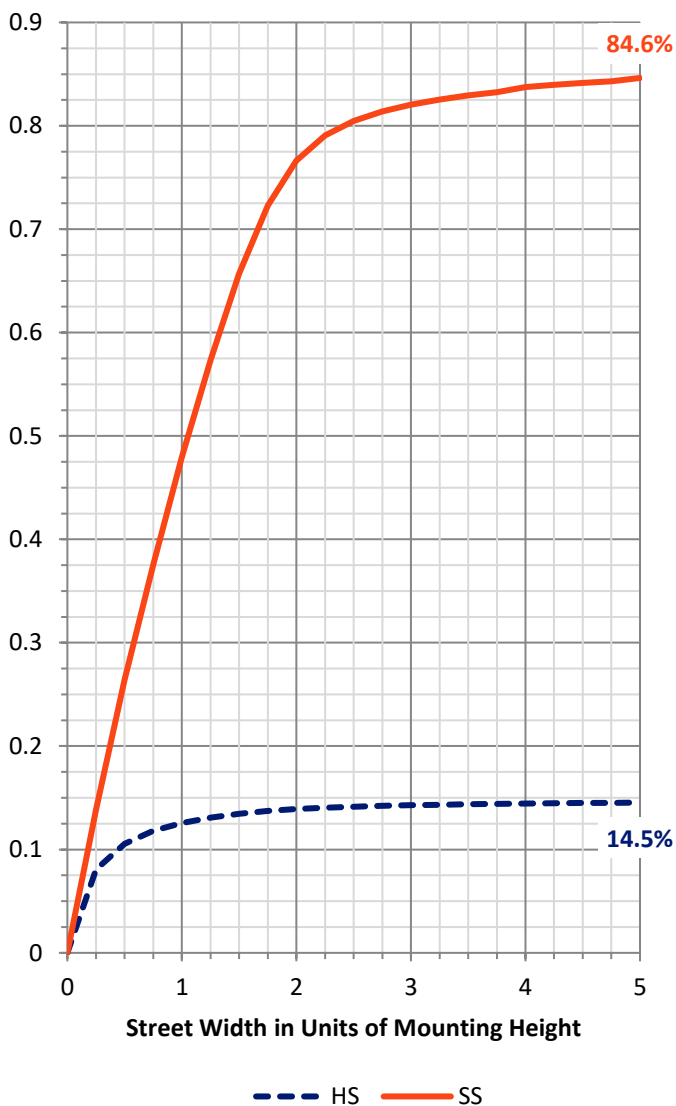
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1900.4	0.0	1900.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	11067.0	0.0	11067.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	12967.4	0.0	12967.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.3	2.3
10°-20°	668.2	5.2
20°-30°	863.4	6.7
30°-40°	1121.4	8.6
40°-50°	1630.3	12.6
50°-60°	2601.4	20.1
60°-70°	3475.1	26.8
70°-80°	2003.3	15.4
80°-90°	300.1	2.3
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°	12967.4	100.0
0°-180°	12967.4	100.0

**Coefficient of Utilization**

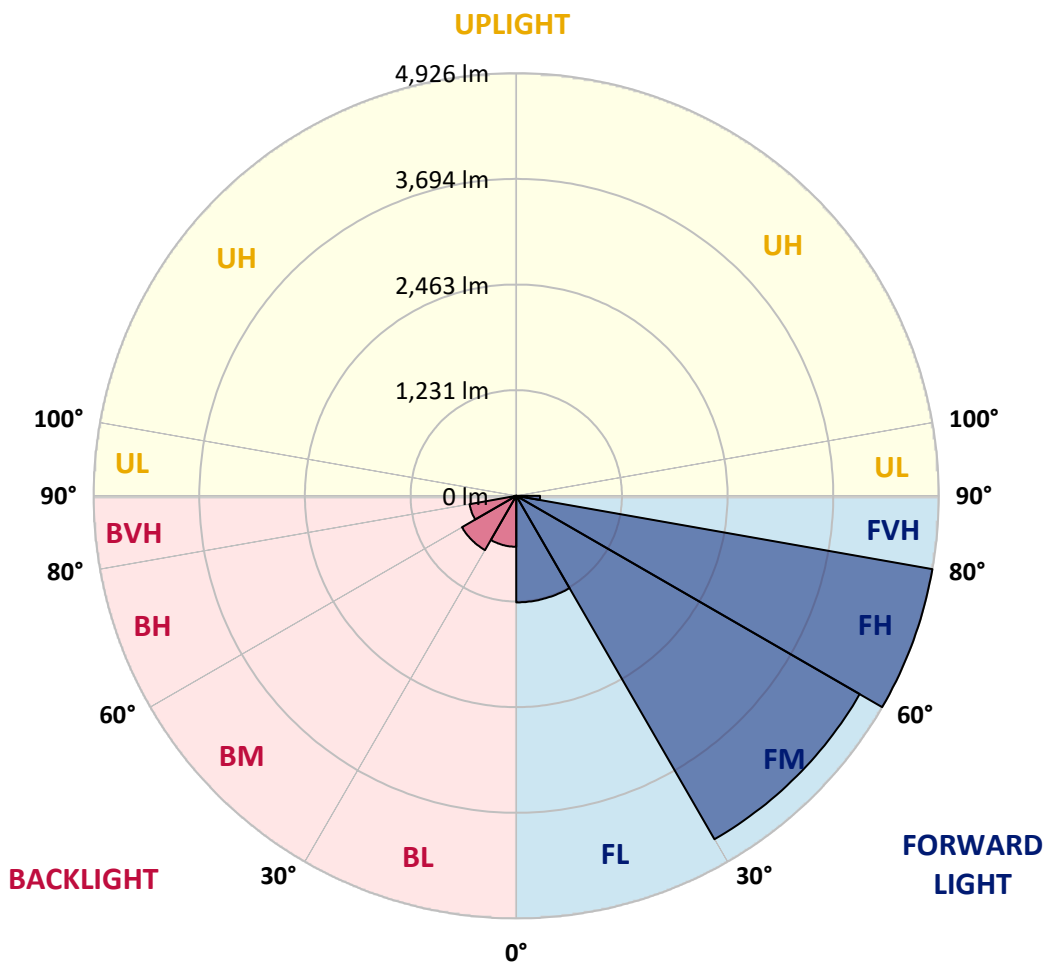


REPORT NUMBER: P651236  
 CATALOG NUMBER: GALN-SA2D-840-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.9	9.6			
FM (30°-60°)	4622.2	35.6			
FH (60°-80°)	4925.8	38.0			G2/5000
FVH (80°-90°)	277.1	2.1			G3/500
BL (0°-30°)	594.0	4.6	B2/1000		
BM (30°-60°)	730.8	5.6	B1/1000		
BH (60°-80°)	552.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	23.0	0.2			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 III Short





REPORT NUMBER: P651236

CATALOG NUMBER: GALN-SA2D-840-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4
2.5°	3716.5	3726.6	3723.7	3720.1	3714.4	3698.4	3672.4	3668.0	3651.4	3616.0	3571.9
5°	3659.4	3668.0	3668.8	3673.8	3681.1	3678.2	3659.4	3657.2	3632.6	3584.8	3511.1
7.5°	3463.4	3474.9	3500.2	3528.5	3553.8	3577.6	3583.4	3587.0	3571.9	3516.9	3418.5
10°	3242.8	3254.3	3265.9	3307.9	3370.1	3429.3	3478.5	3485.1	3488.7	3438.1	3318.0
12.5°	2998.3	3022.2	3046.8	3109.0	3192.2	3285.5	3372.2	3386.0	3410.6	3372.2	3231.2
15°	2790.8	2815.4	2850.8	2906.5	3007.1	3141.6	3263.8	3286.2	3334.6	3315.1	3150.2
17.5°	2646.9	2655.5	2680.2	2743.8	2852.3	2994.0	3157.5	3202.3	3279.6	3274.6	3080.8
20°	2533.3	2544.2	2559.4	2598.4	2711.2	2860.9	3058.4	3116.2	3221.1	3238.4	3012.1
22.5°	2485.6	2493.6	2491.4	2512.4	2589.0	2739.5	2957.9	3026.6	3169.1	3213.9	2948.5
25°	2488.5	2495.8	2484.9	2479.9	2525.4	2632.4	2853.0	2940.5	3127.1	3197.2	2890.6
27.5°	2537.0	2542.0	2521.7	2501.6	2505.2	2565.9	2766.2	2863.1	3091.7	3204.5	2842.2
30°	2602.1	2611.5	2598.4	2573.9	2547.1	2550.0	2710.5	2806.0	3075.0	3229.8	2819.0
32.5°	2685.9	2694.6	2688.8	2669.3	2634.6	2596.3	2696.8	2785.1	3076.5	3281.2	2814.0
35°	2774.2	2791.5	2801.0	2799.5	2771.3	2704.7	2751.0	2824.1	3111.2	3367.2	2843.6
37.5°	2873.9	2888.4	2929.0	2954.9	2929.0	2851.6	2873.3	2923.9	3187.8	3491.6	2908.7
40°	2970.9	2992.6	3051.9	3132.9	3122.7	3054.8	3059.8	3093.1	3323.0	3676.7	3035.9
42.5°	3072.1	3098.2	3201.6	3321.6	3345.5	3292.7	3306.5	3336.1	3515.5	3933.4	3254.3
45°	3202.3	3233.4	3360.7	3510.4	3604.4	3571.9	3610.9	3625.4	3772.9	4267.6	3542.2
47.5°	3370.1	3406.2	3563.1	3749.8	3882.8	3912.5	3980.5	3971.8	4091.8	4663.2	3915.4
50°	3652.9	3673.1	3821.3	4011.6	4194.5	4328.3	4402.0	4415.8	4487.4	5047.9	4332.7
52.5°	3989.1	4007.2	4114.3	4280.6	4509.9	4793.4	4975.6	4930.7	4948.1	5516.5	4820.8
55°	4367.4	4397.8	4465.7	4576.4	4873.6	5290.9	5656.8	5667.7	5475.3	5964.9	5288.7
57.5°	4660.2	4711.6	4828.0	4985.7	5362.5	5844.1	6335.9	6343.2	6097.2	6443.7	5805.1
60°	4512.7	4573.4	4839.6	5223.6	6004.0	6809.6	7147.3	7106.1	6702.5	6989.0	6435.0
62.5°	3876.3	3887.2	4274.0	4874.4	6201.4	8101.2	8355.1	8180.7	7510.4	7680.3	7075.0
65°	2508.8	2579.6	2886.2	3727.3	5552.7	8817.9	10471.1	10068.3	8642.9	8465.0	7610.9
67.5°	1583.8	1565.7	1693.0	2128.3	3819.1	8186.5	12276.9	12213.3	10124.0	8960.4	7482.9
69°	1313.3	1333.6	1377.0	1631.5	2628.1	6989.6	12490.3	12930.0	10842.1	8921.3	7017.9
70°	1191.1	1200.5	1246.0	1446.4	2027.8	5854.3	12140.3	12910.4	11124.2	8757.8	6680.9
72.5°	945.2	944.5	1022.6	1203.4	1515.8	3341.9	9968.5	11208.8	10808.9	7997.1	5520.2
75°	718.1	729.7	815.8	1018.3	1396.5	1826.1	6956.4	8632.0	8632.8	6316.4	3444.6
77.5°	517.8	525.0	625.5	854.8	1315.5	1480.4	4633.5	6191.3	5820.2	2894.2	1082.6
80°	339.2	343.5	420.2	676.9	1186.1	1396.5	2747.4	3789.5	2745.3	768.0	358.0
82.5°	185.9	207.6	256.8	438.2	951.8	1290.2	1669.9	1917.9	1029.8	342.0	186.6
85°	93.3	99.1	144.7	256.0	621.9	1067.4	1162.9	1099.9	531.5	170.0	96.9
87.5°	27.5	34.7	60.0	99.1	252.4	556.2	647.2	580.7	204.7	61.5	20.3
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: P651236  
 CATALOG NUMBER: GALN-SA2D-840-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4	3583.4
2.5°	3553.8	3540.8	3482.9	3430.9	3383.1	3332.5	3289.8	3252.2	3255.8	3256.5	3218.2
5°	3472.7	3443.1	3333.2	3230.5	3143.7	3033.8	2939.8	2879.0	2848.6	2808.2	2822.6
7.5°	3362.8	3305.7	3153.2	2982.4	2822.6	2680.2	2525.4	2419.1	2351.1	2285.3	2294.0
10°	3249.3	3157.5	2935.4	2709.8	2503.0	2275.2	2077.8	1908.5	1782.7	1735.7	1704.5
12.5°	3132.9	3012.1	2730.1	2429.9	2144.3	1871.6	1591.8	1410.2	1271.3	1197.6	1207.0
15°	3026.6	2879.8	2516.0	2150.0	1779.1	1454.3	1175.2	1002.4	905.4	885.2	896.8
17.5°	2928.2	2735.9	2315.7	1878.1	1444.9	1090.6	883.0	785.4	746.3	735.5	734.8
20°	2826.9	2613.7	2090.7	1587.4	1126.0	845.4	724.6	679.1	671.9	676.2	676.9
22.5°	2724.3	2462.4	1859.4	1298.8	896.8	691.4	633.5	621.2	627.0	637.1	638.6
25°	2629.6	2329.4	1636.6	1045.7	715.9	607.5	579.3	579.3	592.3	607.5	608.2
27.5°	2551.4	2200.6	1414.6	830.2	599.5	546.7	537.3	542.4	560.4	572.0	572.8
30°	2487.1	2080.6	1204.8	665.3	527.2	498.3	496.1	504.8	517.8	528.7	529.4
32.5°	2438.6	1975.0	1008.9	559.0	477.3	461.4	460.7	467.2	474.4	477.3	480.2
35°	2419.8	1887.5	829.5	491.7	444.0	434.0	434.0	433.2	436.1	437.6	439.0
37.5°	2435.0	1820.3	690.6	448.4	419.5	412.3	407.9	403.5	402.1	402.1	402.8
40°	2499.4	1784.9	587.3	420.2	402.1	391.2	383.3	378.2	373.2	374.6	376.1
42.5°	2636.0	1791.3	517.0	401.4	386.9	371.7	360.1	354.4	350.8	355.1	354.4
45°	2853.7	1856.4	472.2	388.4	371.7	352.2	341.4	335.6	335.6	342.0	344.2
47.5°	3158.2	1980.8	448.4	378.2	360.1	337.0	326.1	321.9	323.3	334.1	334.8
50°	3529.9	2197.0	444.0	373.2	354.4	326.1	313.9	309.5	313.1	324.7	326.1
52.5°	3939.9	2475.5	465.0	373.9	349.3	319.7	303.8	297.2	300.8	310.2	313.1
55°	4425.9	2824.1	519.2	376.8	342.0	316.0	296.5	282.1	286.4	292.9	293.6
57.5°	4922.0	3263.8	614.7	377.5	336.3	309.5	284.2	265.4	265.4	269.8	271.9
60°	5528.1	3742.5	740.6	378.2	337.0	300.2	267.6	246.6	243.7	245.9	246.6
62.5°	6129.8	4143.2	761.5	376.1	344.2	290.7	249.5	227.8	222.8	222.0	220.6
65°	6395.2	4068.7	624.1	365.9	352.2	284.9	235.1	209.7	201.1	198.1	198.1
67.5°	5962.7	3441.7	469.4	352.2	347.2	279.1	221.3	194.5	184.4	178.6	178.6
69°	5556.3	3061.2	421.6	342.8	334.1	269.8	212.6	186.6	174.3	167.8	165.6
70°	5242.5	2799.5	401.4	334.8	321.9	258.9	206.1	180.8	167.0	159.8	158.4
72.5°	4183.6	2196.4	351.5	304.4	274.1	217.7	183.0	162.7	149.7	141.7	139.6
75°	2411.1	1190.4	291.4	264.7	220.6	169.2	154.7	141.7	131.6	124.4	122.2
77.5°	742.0	459.9	211.2	209.0	162.0	130.9	123.6	118.6	111.3	103.4	101.9
80°	312.4	234.3	143.2	141.0	107.7	91.2	89.0	88.2	85.4	78.8	76.7
82.5°	171.4	132.4	99.8	86.8	65.1	52.8	55.0	55.7	53.5	47.0	42.6
85°	83.9	72.3	48.4	39.0	29.7	18.8	18.1	21.7	20.3	14.5	15.9
87.5°	16.7	20.3	13.0	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
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)