

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: STREETWORKS

Report Number: P969974

Luminaire Tested: **NVN-SB6A-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6A-827-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

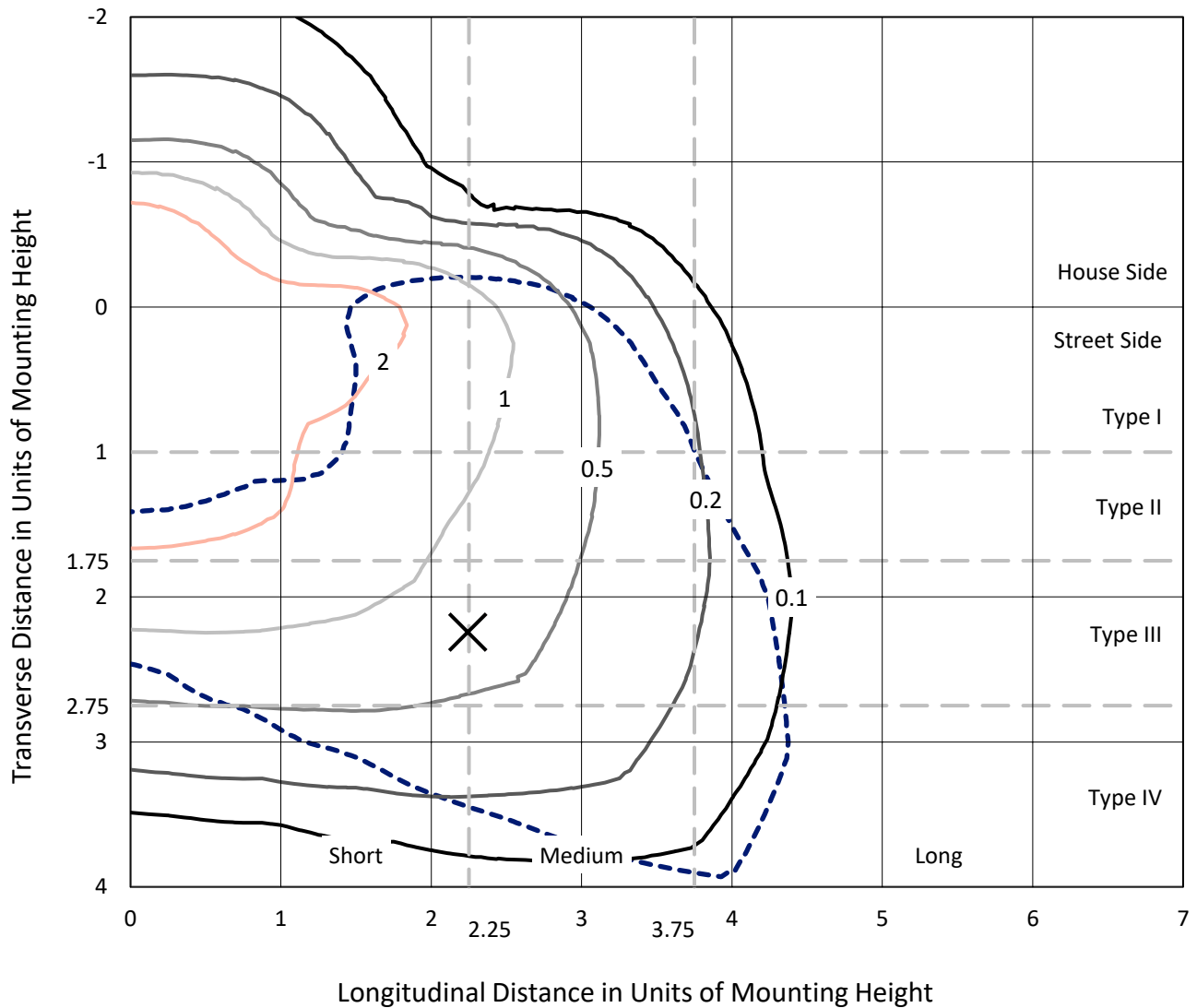
Lumens per Lamp: N/A  
Luminaire Lumens: 24198.2 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

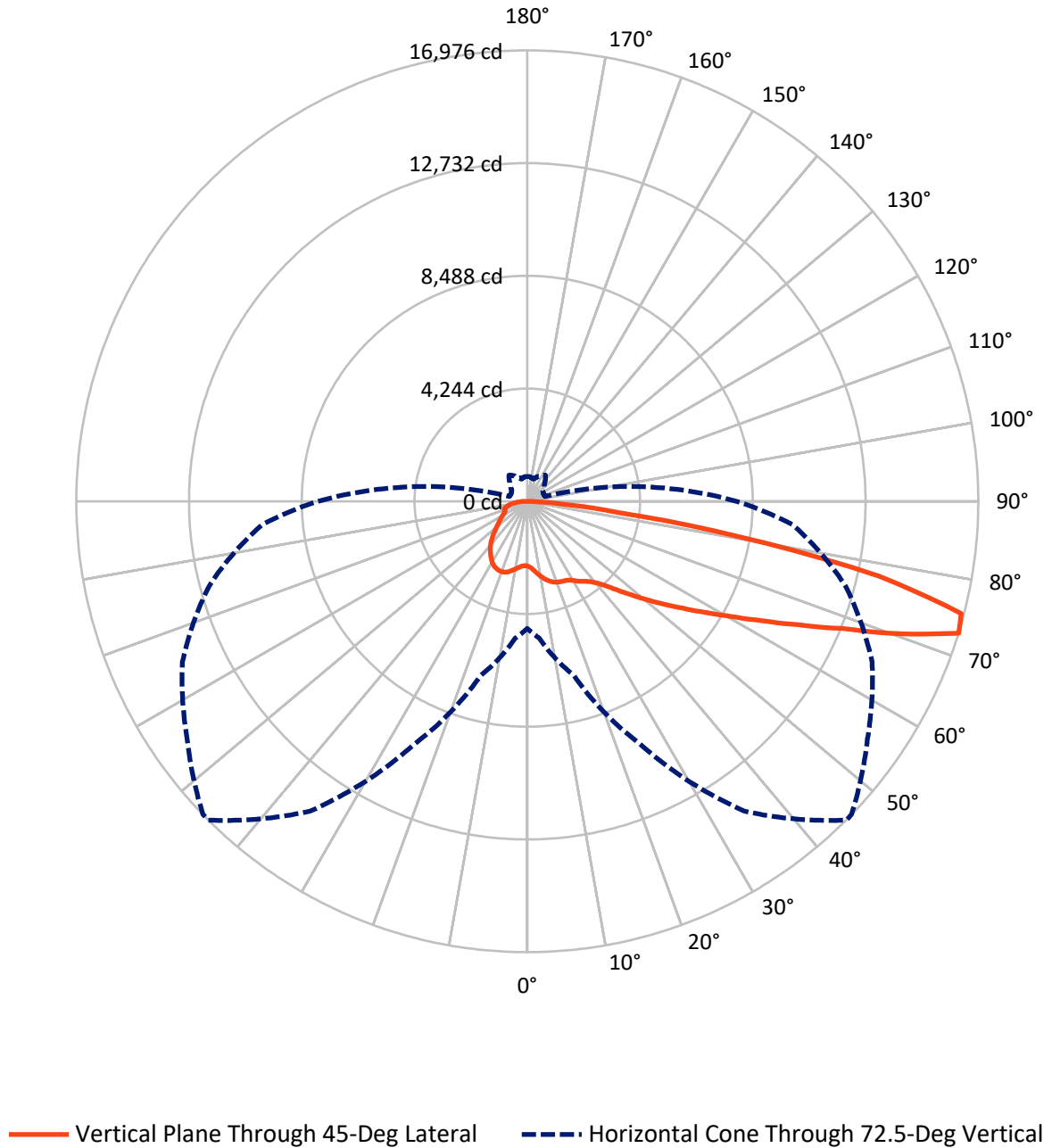
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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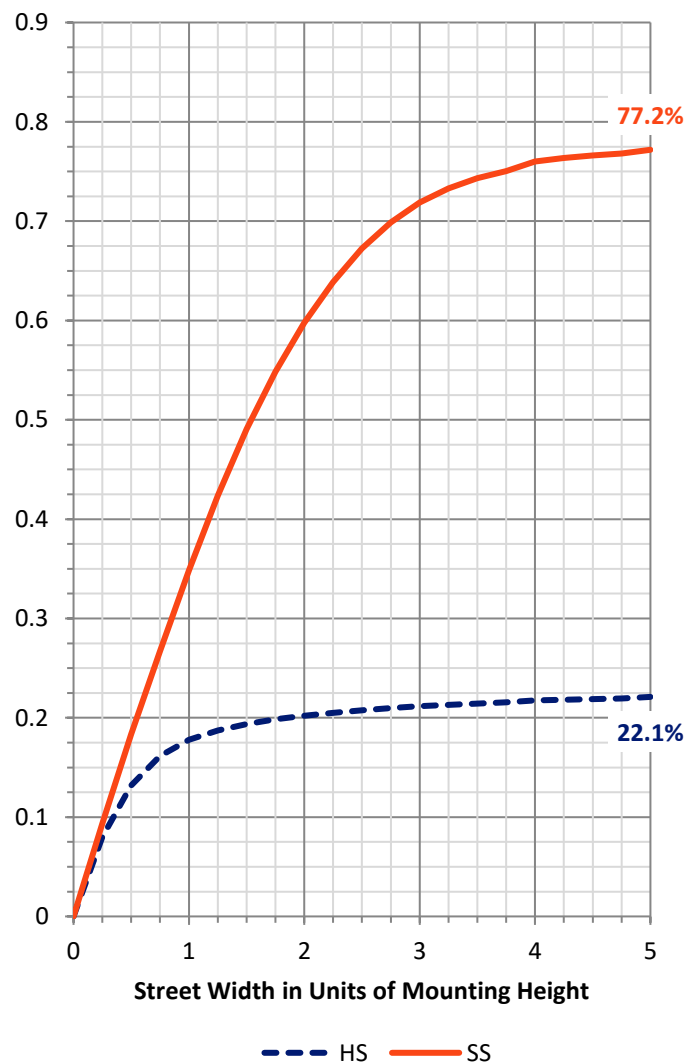
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5470.4	0.0	5470.4
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	18727.8	0.0	18727.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	24198.2	0.0	24198.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.5	1.0
10°-20°	828.4	3.4
20°-30°	1441.0	6.0
30°-40°	2065.8	8.5
40°-50°	2908.8	12.0
50°-60°	4455.4	18.4
60°-70°	6454.3	26.7
70°-80°	5154.1	21.3
80°-90°	641.9	2.7
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°	24198.2	100.0
0°-180°	24198.2	100.0

**Coefficient of Utilization**



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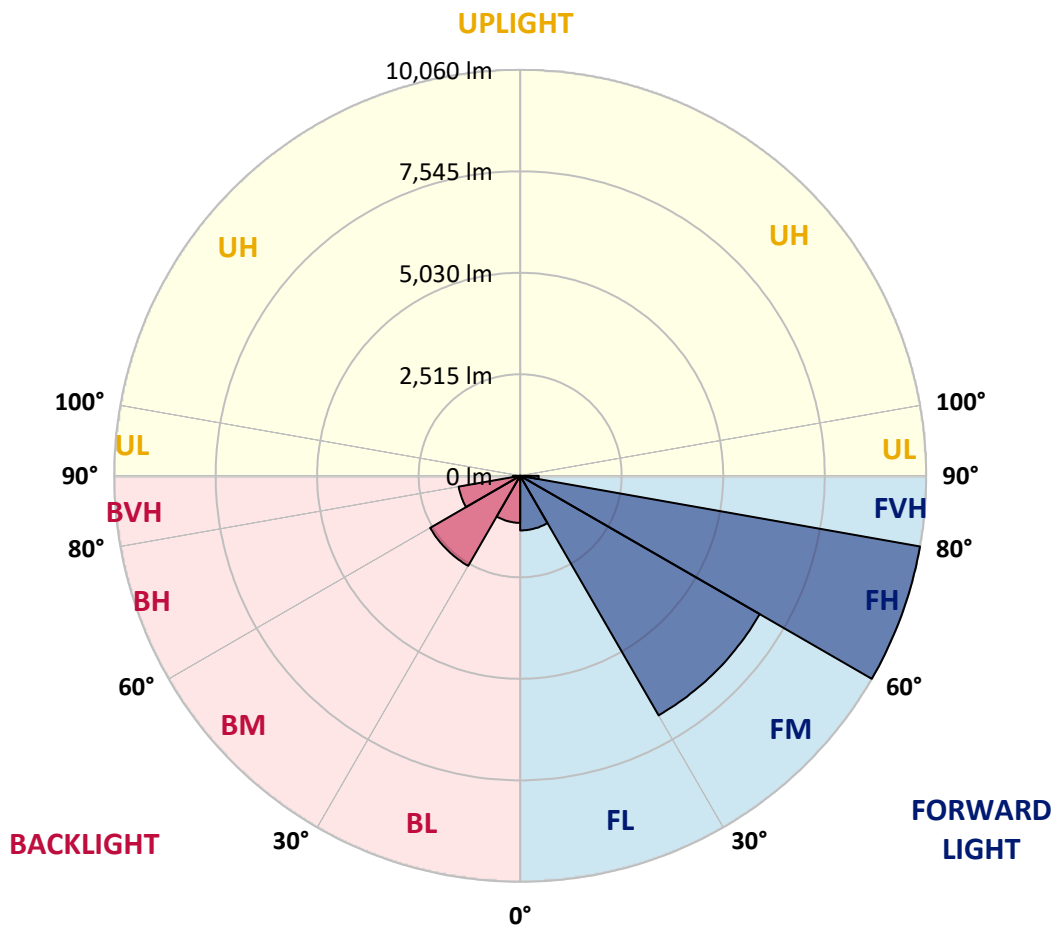
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.2	5.6			
FM (30°-60°)	6854.2	28.3			
FH (60°-80°)	10059.9	41.6			G4/12000
FVH (80°-90°)	460.5	1.9			G3/500
BL (0°-30°)	1164.7	4.8	B3/2500		
BM (30°-60°)	2575.8	10.6	B3/5000		
BH (60°-80°)	1548.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	181.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1
2.5°	2536.8	2553.3	2538.0	2524.0	2517.6	2501.0	2499.8	2489.5	2483.2	2465.3	2460.2
5°	2713.9	2735.6	2710.1	2682.0	2656.6	2615.8	2610.7	2581.4	2548.3	2509.9	2488.3
7.5°	2914.1	2933.1	2903.8	2861.8	2817.2	2749.7	2748.3	2694.8	2642.6	2577.6	2540.6
10°	3088.7	3114.2	3074.7	3017.3	2961.2	2884.8	2875.8	2814.6	2748.3	2664.2	2608.1
12.5°	3242.9	3260.8	3222.5	3152.4	3087.4	3010.9	2999.5	2931.9	2858.0	2762.4	2690.9
15°	3365.3	3388.2	3337.3	3262.1	3193.2	3118.0	3107.8	3046.6	2972.7	2871.9	2780.2
17.5°	3445.6	3464.7	3412.4	3328.4	3262.1	3199.6	3192.0	3141.0	3075.9	2973.9	2875.8
20°	3476.2	3496.6	3441.8	3356.4	3295.2	3246.8	3242.9	3206.0	3161.3	3068.3	2968.9
22.5°	3506.8	3525.9	3454.6	3365.3	3311.8	3281.2	3279.9	3255.7	3237.9	3161.3	3064.4
25°	3630.4	3635.6	3539.9	3411.2	3334.7	3308.0	3306.6	3305.4	3313.0	3253.1	3167.8
27.5°	3737.6	3736.2	3654.6	3533.6	3415.0	3358.9	3357.7	3370.4	3394.6	3344.9	3274.8
30°	3894.3	3880.3	3783.5	3657.2	3548.9	3462.2	3454.6	3443.1	3462.2	3422.7	3381.9
32.5°	4227.0	4182.4	4025.6	3801.3	3659.8	3593.4	3583.3	3512.0	3519.5	3495.4	3475.0
35°	4703.8	4645.2	4436.1	4074.1	3797.4	3703.1	3698.0	3607.5	3592.2	3570.6	3578.2
37.5°	5271.1	5198.4	4955.0	4469.2	4034.5	3830.6	3822.9	3741.4	3678.9	3656.0	3699.3
40°	5840.9	5749.1	5547.7	4951.1	4383.8	4043.5	4019.2	3895.6	3824.2	3785.9	3877.8
42.5°	6394.1	6317.6	6145.5	5491.5	4814.7	4354.5	4301.0	4089.3	4035.8	4000.2	4165.8
45°	6883.6	6814.7	6688.5	6069.0	5319.4	4777.7	4725.5	4380.0	4363.4	4363.4	4603.1
47.5°	7281.3	7266.0	7132.2	6658.0	5914.8	5259.6	5169.1	4784.1	4828.7	4897.6	5223.9
50°	7722.4	7680.3	7537.5	7237.9	6614.6	5811.5	5737.6	5280.0	5447.0	5635.7	6121.3
52.5°	8127.7	8150.7	7991.3	7842.2	7405.0	6427.3	6297.2	5865.0	6225.8	6538.2	7173.0
55°	8544.6	8545.8	8501.2	8480.8	8233.5	7108.0	6965.2	6568.7	7142.4	7529.9	8399.3
57.5°	8935.9	8938.5	9004.7	9184.5	9194.7	7893.2	7731.3	7433.0	8160.8	8556.1	9663.8
60°	9285.2	9303.0	9484.0	9904.8	10039.9	8793.2	8640.2	8454.1	9213.8	9611.5	10993.3
62.5°	9402.5	9467.5	9870.3	10468.1	10874.8	9897.1	9746.6	9635.7	10320.3	10689.9	12104.9
65°	9203.6	9352.8	10131.6	10933.5	11734.0	11208.8	11059.6	10938.6	11470.2	11818.1	13017.6
67.5°	8715.4	8907.9	10116.3	11421.7	12776.7	12786.9	12648.0	12363.8	12702.8	12836.6	13314.6
70°	7429.2	7717.3	9225.3	11603.9	13973.7	14945.0	14811.2	14079.5	13932.9	13285.3	12478.5
72.5°	4786.6	5174.2	6793.1	10103.6	14240.1	16975.7	16968.1	15628.3	14321.7	12413.5	10008.0
75°	1746.4	1983.5	3156.3	6341.9	11953.2	16872.4	16922.1	15363.2	13073.8	9588.6	6234.8
77.5°	636.1	696.0	1030.0	2437.3	7351.4	13537.8	13641.0	12282.2	9305.6	4812.2	2470.5
80°	333.9	367.2	527.8	945.9	3149.9	8039.8	8201.6	7299.1	4373.7	1449.4	740.7
82.5°	184.8	200.2	295.7	513.7	1418.8	3438.0	3534.8	2883.4	1538.6	614.4	306.0
85°	99.4	105.8	139.0	280.4	693.4	1191.9	1218.6	861.7	613.2	360.8	147.9
87.5°	29.3	35.7	45.9	89.3	271.5	267.7	274.1	170.8	242.2	182.2	48.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1	2441.1
2.5°	2452.6	2448.7	2434.8	2428.4	2420.7	2419.4	2425.9	2427.1	2428.4	2429.7	2434.8
5°	2475.6	2462.8	2450.1	2442.4	2444.9	2446.3	2459.0	2467.9	2474.2	2479.4	2481.9
7.5°	2520.2	2509.9	2488.3	2487.1	2490.9	2502.3	2518.9	2539.2	2550.7	2559.6	2562.2
10°	2586.5	2567.3	2541.8	2545.7	2553.3	2569.9	2604.3	2620.8	2640.0	2656.6	2652.7
12.5°	2654.0	2637.4	2608.1	2610.7	2623.4	2652.7	2685.9	2706.3	2719.0	2731.7	2736.9
15°	2742.0	2712.7	2680.8	2680.8	2703.7	2735.6	2750.9	2767.5	2775.1	2789.1	2794.3
17.5°	2832.5	2794.3	2752.1	2749.7	2777.6	2792.9	2801.8	2804.4	2807.0	2822.2	2827.4
20°	2923.0	2880.9	2821.0	2815.9	2822.2	2819.8	2818.4	2815.9	2819.8	2838.8	2846.5
22.5°	3012.2	2963.8	2880.9	2858.0	2840.1	2815.9	2814.6	2813.3	2815.9	2835.0	2847.8
25°	3116.7	3058.1	2947.2	2878.4	2818.4	2785.3	2789.1	2790.4	2792.9	2808.3	2828.7
27.5°	3230.2	3165.2	3008.4	2871.9	2763.6	2740.6	2734.3	2738.2	2747.1	2771.3	2795.5
30°	3343.7	3267.2	3064.4	2846.5	2694.8	2663.0	2642.6	2651.5	2679.6	2703.7	2730.5
32.5°	3446.9	3370.4	3109.1	2790.4	2606.9	2557.2	2530.3	2541.8	2569.9	2578.8	2610.7
35°	3568.0	3481.3	3128.2	2701.2	2511.2	2434.8	2399.0	2382.5	2396.6	2387.6	2415.6
37.5°	3703.1	3612.6	3125.6	2583.9	2399.0	2311.1	2261.4	2198.9	2169.6	2139.0	2158.1
40°	3903.3	3773.2	3095.1	2442.4	2260.1	2179.8	2090.6	1984.8	1918.5	1858.5	1862.4
42.5°	4176.1	3996.3	3039.0	2286.9	2103.3	2028.1	1907.0	1783.4	1678.8	1579.4	1570.5
45°	4582.7	4288.2	2968.9	2121.1	1933.8	1859.9	1728.6	1589.6	1471.1	1343.6	1328.3
47.5°	5169.1	4680.9	2902.6	1932.5	1755.3	1687.8	1569.2	1440.4	1300.2	1176.6	1162.6
50°	5974.7	5244.3	2841.4	1749.0	1579.4	1528.4	1434.1	1302.8	1161.3	1061.9	1055.4
52.5°	6999.6	6010.4	2815.9	1571.7	1415.0	1395.8	1320.6	1198.2	1064.4	980.3	973.9
55°	8176.2	6927.0	2815.9	1402.2	1270.9	1277.3	1225.0	1111.6	995.6	920.3	912.8
57.5°	9377.0	7855.0	2764.9	1245.4	1148.5	1175.3	1142.2	1042.7	938.2	860.5	847.7
60°	10483.5	8632.6	2558.4	1102.7	1040.2	1082.3	1060.6	975.2	847.7	782.7	772.5
62.5°	11333.7	9071.0	2160.7	989.2	951.0	999.4	987.9	885.9	831.2	804.3	795.4
65°	11759.5	8999.7	1652.1	888.5	875.8	951.0	926.7	922.9	879.6	849.0	838.8
67.5°	11498.1	8385.2	1198.2	814.6	832.4	906.3	999.4	1014.6	934.4	874.4	864.3
70°	10352.2	7273.7	892.4	744.5	777.6	907.6	1139.6	1061.9	916.6	846.4	835.0
72.5°	7875.4	5424.0	692.2	670.6	706.2	914.0	1202.1	1040.2	865.5	935.6	928.0
75°	4503.6	2977.8	555.8	580.0	616.9	854.0	1170.2	984.1	826.0	859.2	859.2
77.5°	1717.1	1144.7	458.9	490.8	495.9	745.7	1119.2	980.3	786.5	767.4	699.9
80°	595.3	447.4	379.9	390.1	383.7	662.9	1073.4	852.8	643.7	576.2	557.1
82.5°	243.4	223.0	300.8	288.1	272.8	515.0	866.8	697.3	526.4	465.2	460.2
85°	105.8	141.4	198.8	174.7	158.1	356.9	694.7	590.2	444.8	383.7	382.4
87.5°	21.6	53.5	84.2	79.0	81.6	238.4	493.3	419.4	314.9	235.9	184.8
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)