

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: P285835

Luminaire Tested: **USSL-XL-C047-D-U-T4-AP-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T4-AP-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28163.7 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

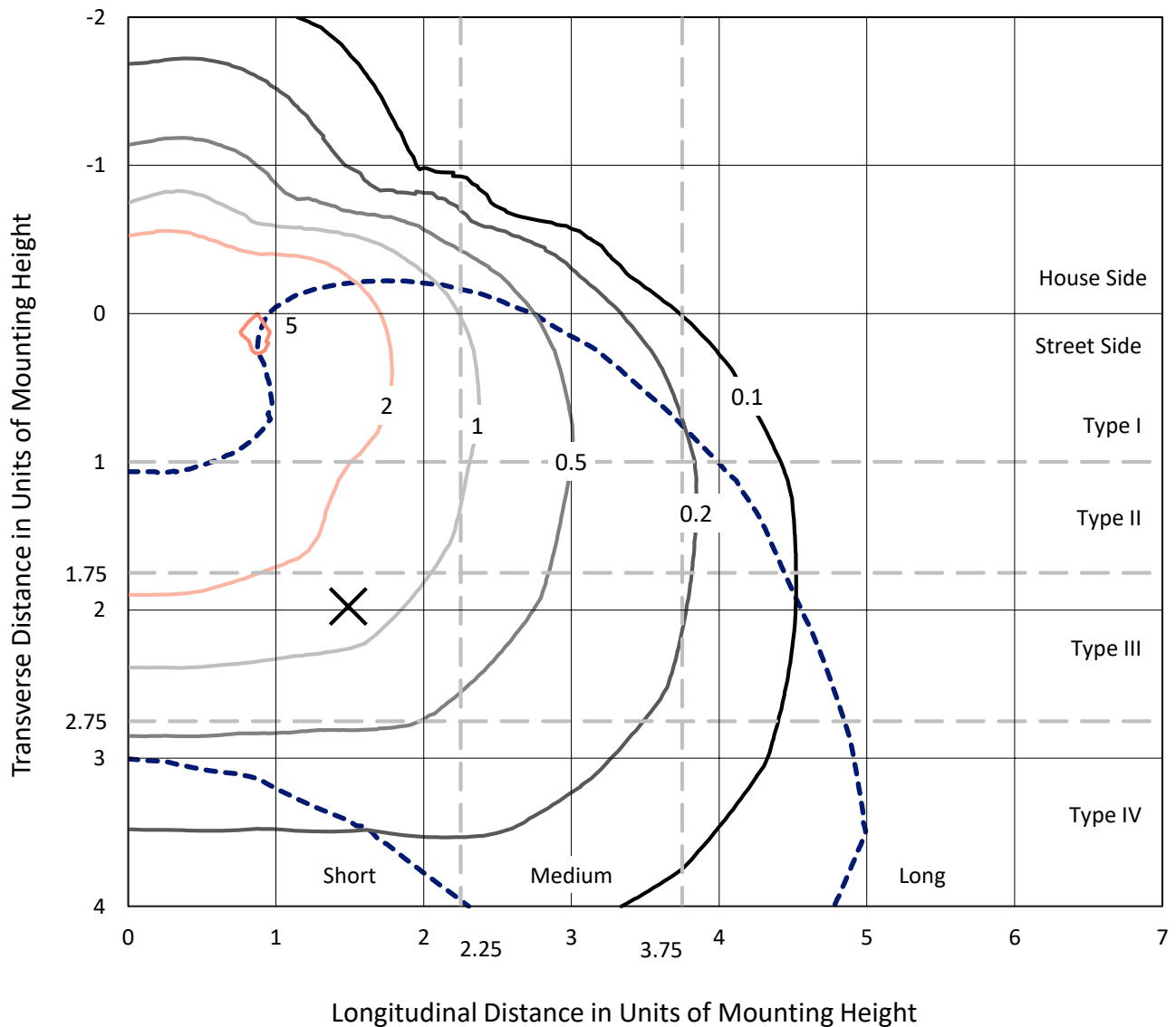
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

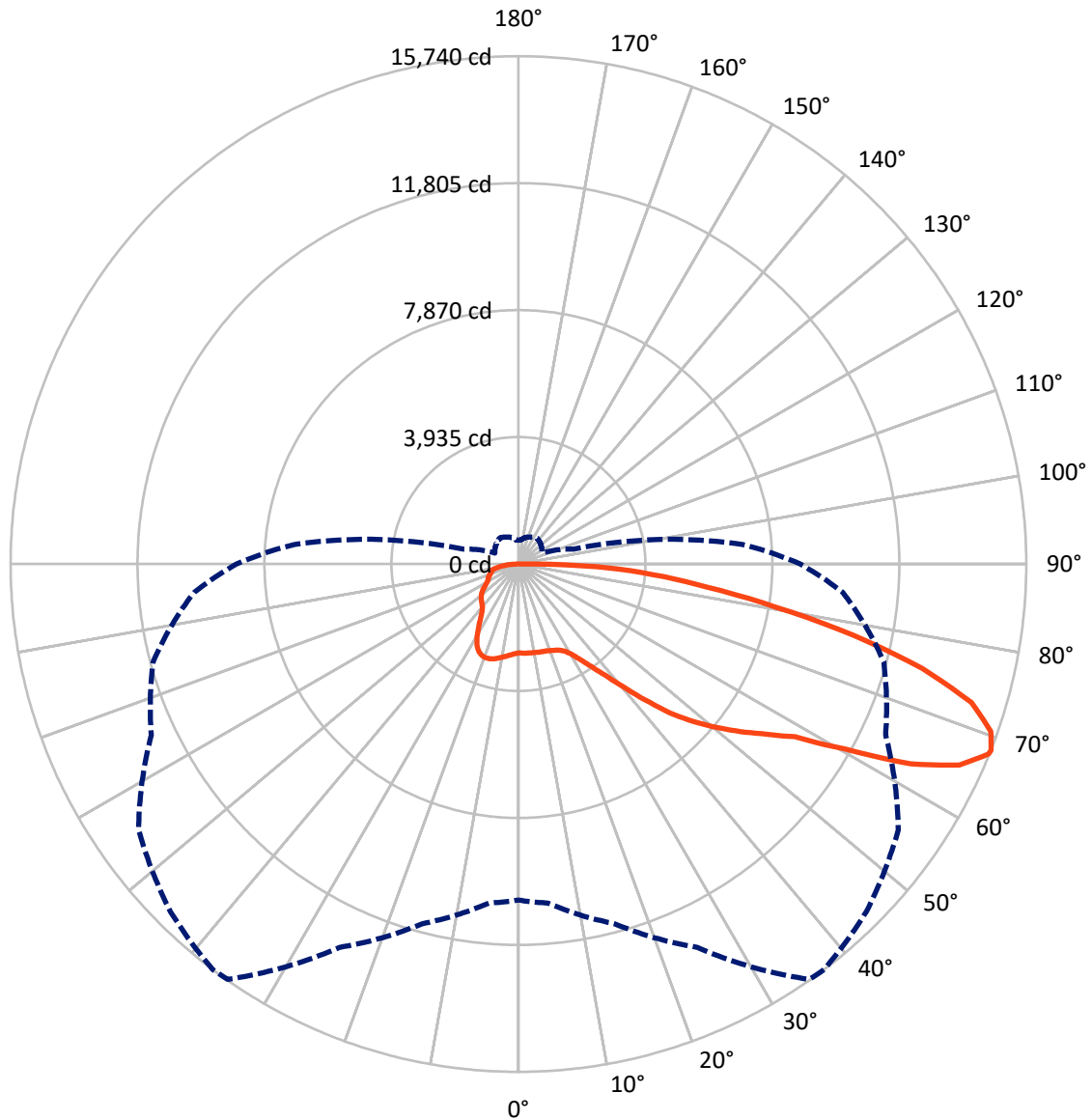


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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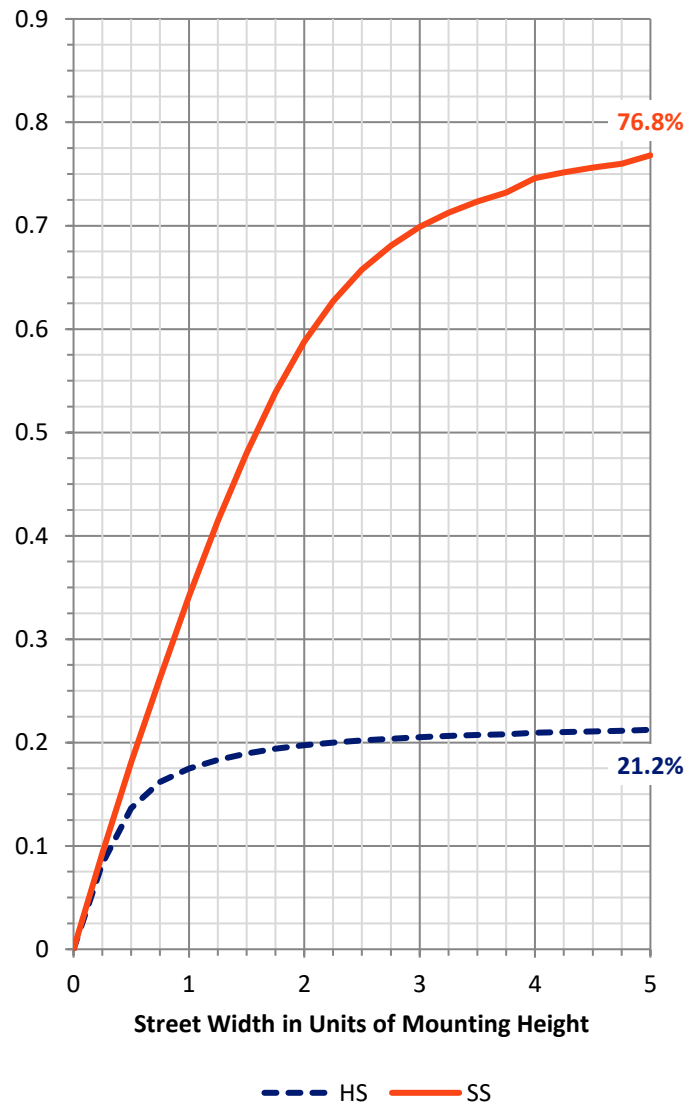
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6081.3	0.0	6081.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22082.3	0.0	22082.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	28163.7	0.0	28163.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.4	0.9
10°-20°	831.3	3.0
20°-30°	1419.9	5.0
30°-40°	2262.1	8.0
40°-50°	3923.3	13.9
50°-60°	5687.0	20.2
60°-70°	7172.0	25.5
70°-80°	5314.4	18.9
80°-90°	1286.3	4.6
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°	28163.7	100.0
0°-180°	28163.7	100.0



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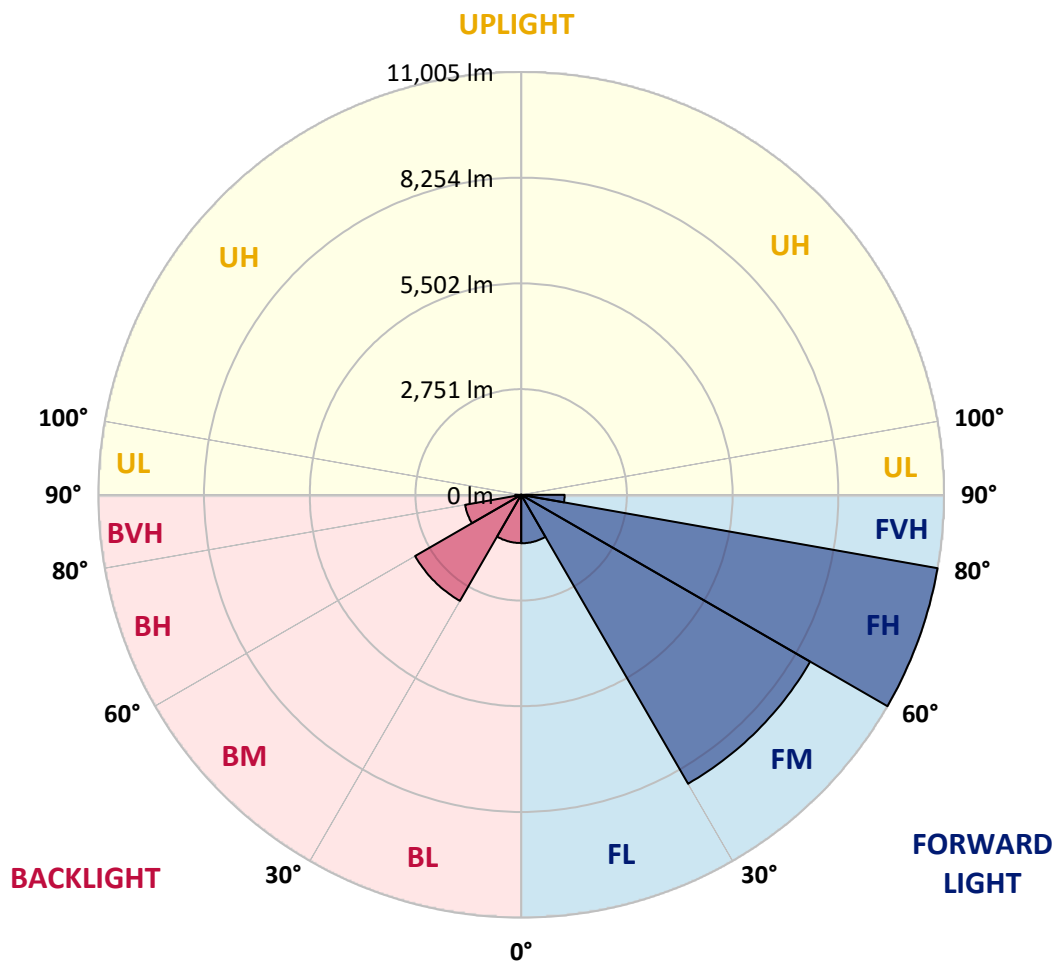
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1262.6	4.5			
FM	(30°-60°)	8684.4	30.8			
FH	(60°-80°)	11004.9	39.1			G4/12000
FVH	(80°-90°)	1130.4	4.0			G5
BL	(0°-30°)	1256.0	4.5	B3/2500		
BM	(30°-60°)	3188.0	11.3	B3/5000		
BH	(60°-80°)	1481.4	5.3	B3/2500		G3/2500
BVH	(80°-90°)	155.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8
2.5°	2752.9	2760.4	2762.6	2758.3	2762.6	2766.9	2757.2	2756.2	2751.8	2734.5	2736.7
5°	2753.9	2763.7	2764.7	2761.6	2769.1	2773.4	2769.1	2764.7	2760.4	2735.6	2741.0
7.5°	2753.9	2761.6	2763.7	2761.6	2772.3	2779.9	2779.9	2783.1	2783.1	2755.0	2759.3
10°	2744.3	2750.8	2753.9	2759.3	2777.7	2788.5	2795.0	2810.1	2818.7	2799.3	2800.4
12.5°	2700.0	2705.4	2716.2	2747.5	2790.6	2803.6	2822.0	2848.9	2870.5	2870.5	2872.6
15°	2665.4	2670.8	2691.4	2733.5	2799.3	2816.6	2852.2	2897.4	2937.4	2959.0	2976.3
17.5°	2674.1	2680.6	2710.8	2746.4	2812.2	2829.5	2880.3	2946.1	3011.9	3058.2	3092.8
20°	2701.0	2705.4	2739.9	2781.0	2851.1	2863.0	2912.6	2993.6	3085.3	3161.9	3218.0
22.5°	2777.7	2775.6	2803.6	2819.8	2892.1	2902.9	2960.1	3043.2	3161.9	3277.3	3359.4
25°	2841.4	2851.1	2873.7	2886.7	2946.1	2955.7	3027.0	3118.8	3255.8	3404.7	3536.4
27.5°	2911.5	2920.1	2942.8	2972.0	3055.1	3060.5	3110.1	3223.4	3375.6	3558.0	3768.4
30°	3070.1	3069.0	3091.7	3123.0	3235.2	3245.0	3291.4	3407.9	3549.3	3777.0	4030.6
32.5°	3344.3	3342.1	3345.4	3388.5	3510.5	3533.1	3592.4	3746.7	3923.7	4143.9	4425.5
35°	3906.5	3883.8	3840.7	3806.1	3875.2	3901.1	4030.6	4221.6	4537.7	4970.5	5319.1
37.5°	4835.6	4800.0	4654.3	4456.9	4377.0	4373.8	4464.4	4754.7	5246.8	6114.5	6429.6
40°	5725.9	5727.0	5529.5	5261.9	5012.6	4999.7	4947.8	5307.2	6014.1	7188.1	7336.0
42.5°	6569.8	6564.4	6334.6	6089.5	5791.7	5752.9	5601.8	5878.1	6780.3	8072.0	8101.1
45°	7330.6	7313.3	7066.2	6908.6	6652.9	6575.2	6374.5	6461.9	7497.8	8781.0	8678.5
47.5°	8065.5	8048.2	7739.6	7587.4	7363.0	7298.3	7085.6	7124.5	8184.2	9371.2	9145.8
50°	8824.1	8818.8	8371.9	8224.2	7985.6	7958.7	7830.2	7858.3	8900.7	9862.3	9580.6
52.5°	9723.1	9583.8	9082.1	8799.3	8629.9	8628.9	8485.2	8557.6	9692.9	10300.4	9882.8
55°	10687.8	10511.9	9998.2	9591.5	9300.1	9304.3	9081.0	9197.5	10388.9	10692.2	10172.0
57.5°	11376.3	11339.7	11186.4	10779.5	10177.4	10106.1	9763.0	9854.7	10999.6	11097.9	10380.2
60°	12018.4	12174.9	12277.4	12147.9	11844.7	11638.5	10686.8	10549.7	11538.2	11455.1	10489.3
62.5°	12423.1	12504.0	12982.1	13160.1	13636.0	13652.3	12513.7	11391.4	11996.8	11679.6	10537.8
65°	11977.4	12097.2	12889.2	13585.3	14942.9	15020.6	14540.3	12795.4	12362.7	11757.3	10446.1
67.5°	10734.2	10859.4	11811.2	13238.9	15665.9	15718.7	15220.2	14252.3	12545.0	11741.0	10177.4
68°	10415.8	10549.7	11542.5	13108.3	15715.6	15740.4	15247.2	14373.1	12556.8	11722.7	10089.9
70°	9098.3	9229.9	10235.7	12291.4	15519.2	15535.3	15076.7	14500.4	12495.4	11565.2	9514.8
72.5°	7147.1	7279.9	8073.0	10426.7	14532.8	14674.2	14440.0	14137.8	12235.3	10951.1	8158.3
75°	5064.4	5200.4	6026.0	8160.5	12528.9	12921.7	13388.9	13442.8	11262.0	9404.7	6077.7
77.5°	3570.9	3682.0	4396.5	6100.4	10111.6	10619.9	11593.2	11673.1	9431.7	7176.3	3206.1
80°	2318.0	2413.0	3052.9	4470.9	7643.6	8082.8	9152.2	8822.0	6702.6	3902.1	557.9
82.5°	1399.6	1470.8	1944.6	3092.8	5593.2	5885.6	6321.6	5296.4	3110.1	551.5	195.3
85°	802.9	851.4	1201.1	1986.7	3941.0	4190.3	4250.7	2659.0	584.9	152.2	110.1
87.5°	411.1	435.9	644.2	1220.5	2328.8	2435.7	2132.4	951.8	116.6	67.9	55.0
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°	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8	2751.8
2.5°	2726.0	2733.5	2738.9	2757.2	2776.6	2786.4	2776.6	2791.8	2797.2	2792.8	2786.4
5°	2732.4	2744.3	2752.9	2789.6	2811.2	2827.4	2816.6	2838.1	2845.7	2837.0	2837.0
7.5°	2750.8	2766.9	2781.0	2829.5	2854.3	2875.9	2869.5	2884.5	2891.0	2880.3	2886.7
10°	2799.3	2815.5	2833.9	2894.3	2910.5	2930.9	2919.1	2930.9	2933.1	2925.5	2930.9
12.5°	2883.5	2894.3	2929.9	2991.4	2993.6	2998.9	2974.1	2951.5	2941.8	2927.8	2937.4
15°	2991.4	3010.8	3059.4	3111.1	3097.1	3085.3	3023.8	2950.3	2904.0	2869.5	2867.2
17.5°	3111.1	3145.7	3206.1	3239.6	3207.3	3153.2	3049.7	2925.5	2813.3	2751.8	2732.4
20°	3234.2	3288.1	3355.0	3361.5	3306.5	3202.9	3045.3	2861.8	2676.2	2561.9	2533.8
22.5°	3384.2	3454.3	3514.7	3482.4	3372.3	3220.2	3005.5	2749.7	2495.0	2321.2	2295.3
25°	3582.8	3651.8	3662.6	3567.6	3397.1	3187.8	2913.7	2582.3	2259.7	2043.9	2023.3
27.5°	3822.3	3859.0	3788.8	3611.9	3366.9	3090.7	2757.2	2350.3	1997.5	1809.7	1778.4
30°	4087.8	4074.8	3881.7	3613.0	3278.5	2925.5	2519.8	2087.0	1790.3	1628.4	1598.2
32.5°	4424.4	4339.2	3975.6	3564.4	3132.7	2703.3	2240.3	1876.7	1647.8	1482.7	1453.7
35°	5093.6	4834.5	4102.9	3487.8	2939.6	2436.7	1995.4	1724.5	1525.9	1336.0	1309.0
37.5°	6111.2	5574.9	4332.8	3403.7	2724.8	2163.7	1807.6	1605.7	1429.9	1226.9	1184.9
40°	7003.6	6392.8	4699.7	3324.8	2505.8	1956.5	1699.7	1548.6	1377.0	1171.9	1128.8
42.5°	7688.8	7047.9	5119.4	3231.0	2277.0	1803.2	1654.3	1541.0	1370.6	1171.9	1132.0
45°	8242.5	7588.6	5492.8	3128.4	2055.8	1682.4	1613.3	1527.0	1357.5	1165.5	1127.7
47.5°	8679.5	7992.1	5787.5	3010.8	1825.9	1600.3	1571.2	1478.5	1324.1	1146.1	1108.2
50°	9058.3	8281.3	5952.5	2872.6	1622.0	1535.6	1511.8	1400.8	1257.1	1088.8	1064.0
52.5°	9322.7	8516.6	6015.1	2815.5	1476.2	1462.2	1431.0	1321.9	1184.9	1020.9	992.8
55°	9521.3	8637.4	5963.3	2684.9	1330.6	1348.9	1334.9	1261.5	1134.2	978.8	950.7
57.5°	9622.7	8677.4	5815.5	2192.8	1192.5	1214.0	1223.8	1228.1	1126.7	990.7	964.7
60°	9658.3	8614.8	5492.8	1565.8	1044.6	1087.8	1141.7	1157.9	1093.2	945.3	923.7
62.5°	9604.4	8451.9	4860.5	1082.4	932.4	1009.0	1080.3	1075.9	1006.8	878.4	849.3
65°	9393.9	8052.6	3696.1	873.0	894.6	973.4	1052.2	999.3	932.4	813.7	798.5
67.5°	8884.6	7211.9	2073.1	806.2	882.7	952.9	1003.6	939.9	865.5	753.3	746.8
68°	8733.5	6964.8	1769.8	801.8	880.6	946.4	990.7	924.9	852.5	743.5	739.2
70°	7852.9	5691.3	798.5	787.8	867.6	922.6	955.1	882.7	805.0	710.0	703.6
72.5°	6068.0	3524.5	536.3	748.9	835.3	887.0	907.6	839.5	774.8	669.1	660.4
75°	3596.8	969.1	508.3	682.0	780.2	852.5	874.1	806.2	729.5	607.5	593.5
77.5°	884.9	349.7	492.1	606.5	723.1	795.3	829.9	783.5	690.6	547.1	533.1
80°	268.7	278.4	468.4	524.4	650.7	710.0	730.6	730.6	638.8	385.3	405.7
82.5°	177.0	223.4	399.3	393.9	516.9	588.1	549.2	551.5	501.8	171.6	200.7
85°	111.2	182.4	269.7	257.9	329.1	360.5	390.7	401.5	352.8	49.6	3.3
87.5°	57.2	77.7	95.0	101.4	130.6	186.6	250.3	246.0	181.2	44.2	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)