

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: P285830

Luminaire Tested: **USSL-XL-C047-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285830
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-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26098 lumens
Efficiency: N/A
Efficacy: 148.3 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

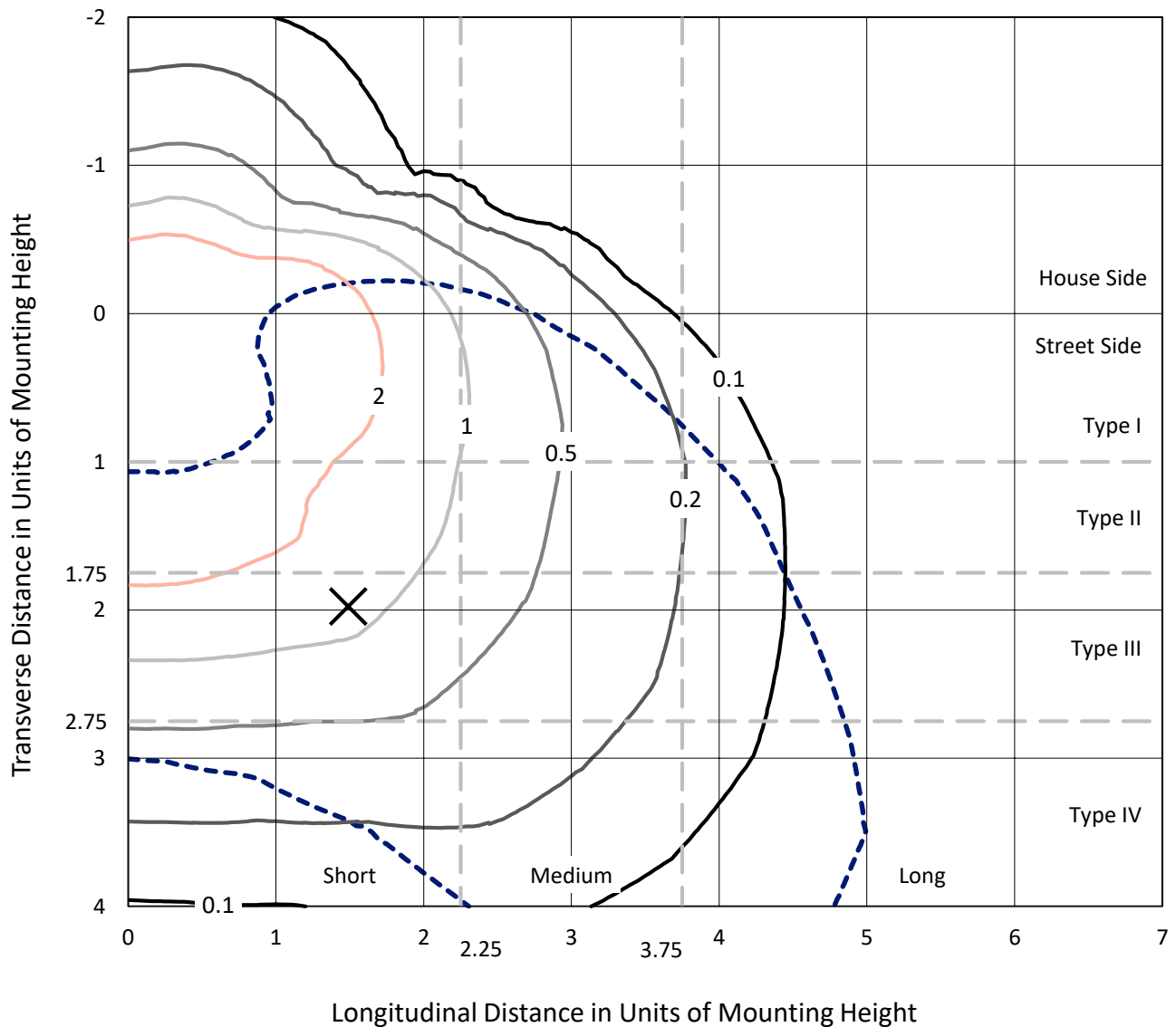


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

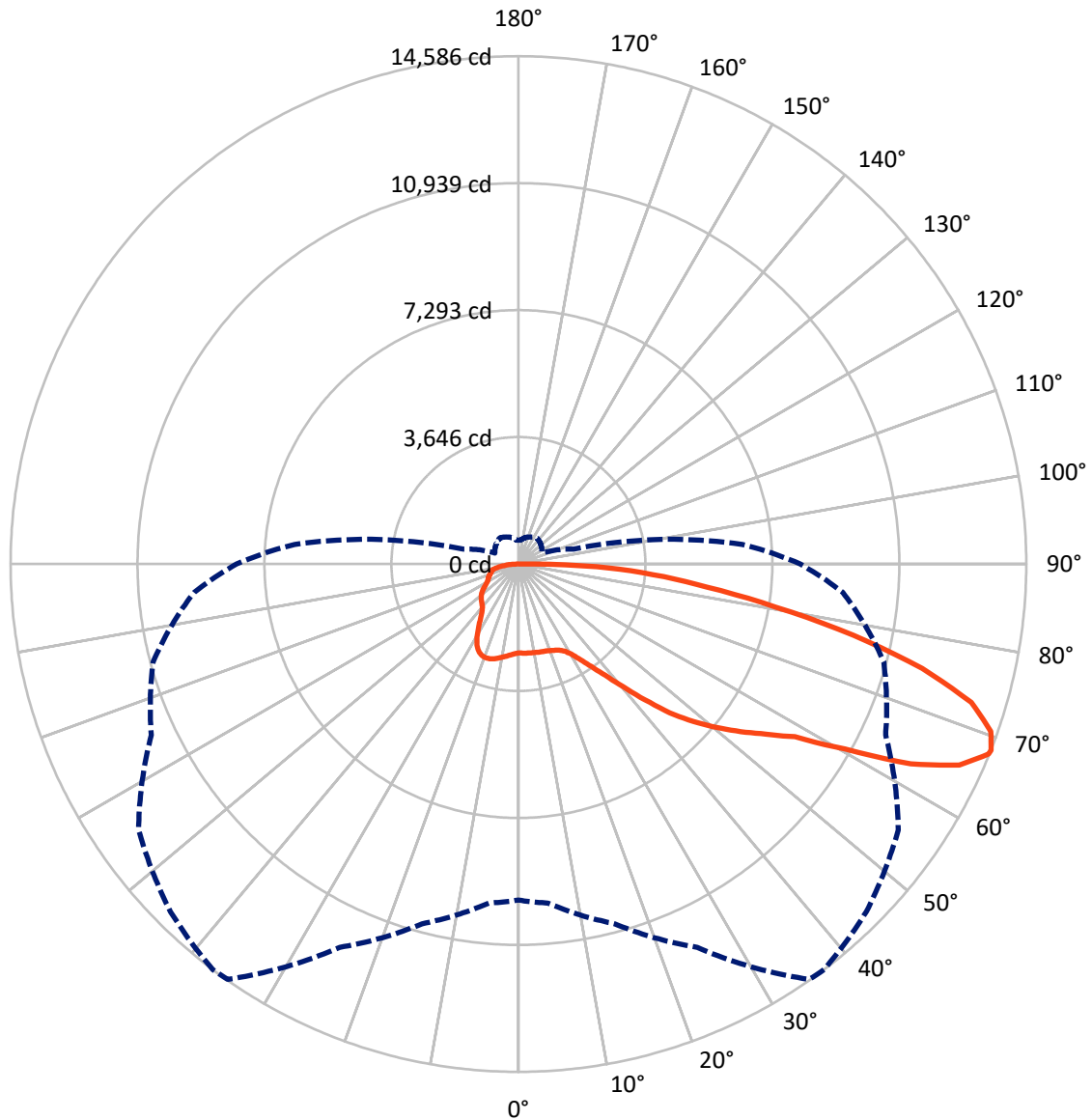


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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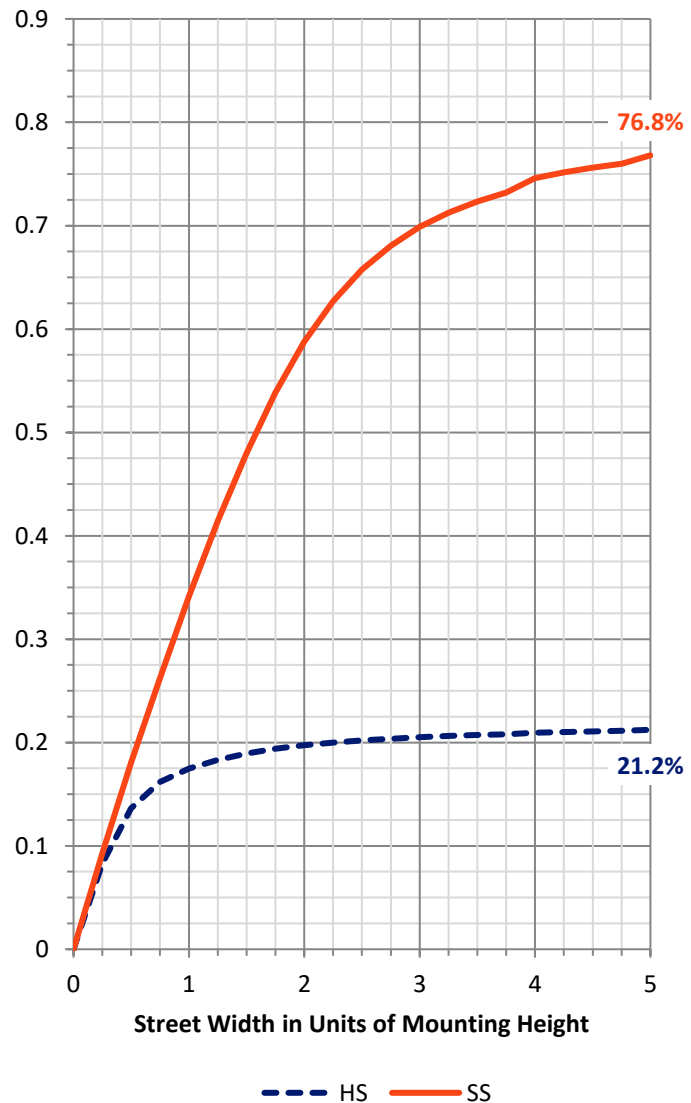
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5635.3	0.0	5635.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	20462.7	0.0	20462.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	26098.0	0.0	26098.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	0.9
10°-20°	770.3	3.0
20°-30°	1315.8	5.0
30°-40°	2096.2	8.0
40°-50°	3635.5	13.9
50°-60°	5269.9	20.2
60°-70°	6645.9	25.5
70°-80°	4924.6	18.9
80°-90°	1192.0	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°	26098.0	100.0
0°-180°	26098.0	100.0

Coefficient of Utilization



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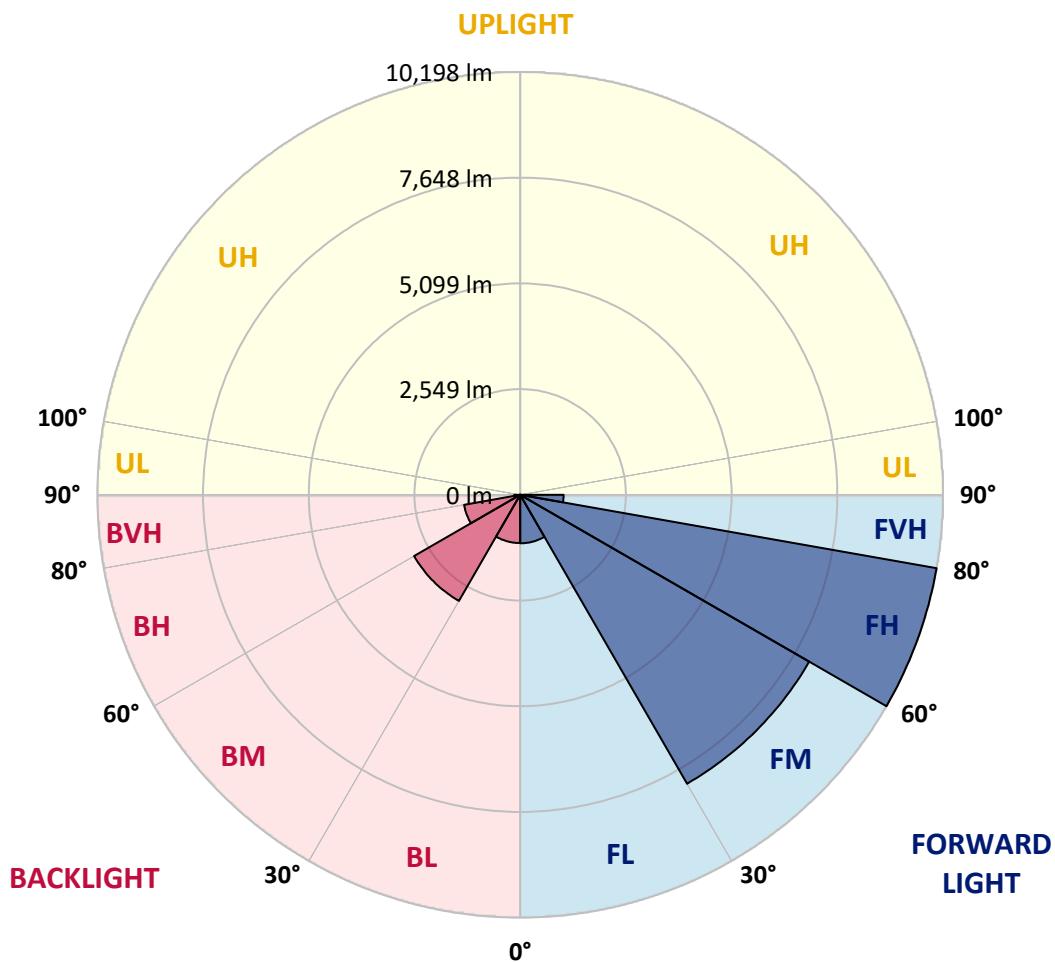
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1170.0	4.5			
FM	(30°-60°)	8047.5	30.8			
FH	(60°-80°)	10197.7	39.1			G4/12000
FVH	(80°-90°)	1047.5	4.0			G5
BL	(0°-30°)	1163.9	4.5	B3/2500		
BM	(30°-60°)	2954.2	11.3	B3/5000		
BH	(60°-80°)	1372.8	5.3	B3/2500		G3/2500
BVH	(80°-90°)	144.5	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°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2551.0	2558.0	2560.0	2556.0	2560.0	2564.0	2555.0	2554.0	2550.0	2534.0	2536.0
5°	2552.0	2561.0	2562.0	2559.0	2566.0	2570.0	2566.0	2562.0	2558.0	2535.0	2540.0
7.5°	2552.0	2559.0	2561.0	2559.0	2569.0	2576.0	2576.0	2579.0	2579.0	2553.0	2557.0
10°	2543.0	2549.0	2552.0	2557.0	2574.0	2584.0	2590.0	2604.0	2612.0	2594.0	2595.0
12.5°	2502.0	2507.0	2517.0	2546.0	2586.0	2598.0	2615.0	2640.0	2660.0	2660.0	2662.0
15°	2470.0	2475.0	2494.0	2533.0	2594.0	2610.0	2643.0	2685.0	2722.0	2742.0	2758.0
17.5°	2478.0	2484.0	2512.0	2545.0	2606.0	2622.0	2669.0	2730.0	2791.0	2834.0	2866.0
20°	2503.0	2507.0	2539.0	2577.0	2642.0	2653.0	2699.0	2774.0	2859.0	2930.0	2982.0
22.5°	2574.0	2572.0	2598.0	2613.0	2680.0	2690.0	2743.0	2820.0	2930.0	3037.0	3113.0
25°	2633.0	2642.0	2663.0	2675.0	2730.0	2739.0	2805.0	2890.0	3017.0	3155.0	3277.0
27.5°	2698.0	2706.0	2727.0	2754.0	2831.0	2836.0	2882.0	2987.0	3128.0	3297.0	3492.0
30°	2845.0	2844.0	2865.0	2894.0	2998.0	3007.0	3050.0	3158.0	3289.0	3500.0	3735.0
32.5°	3099.0	3097.0	3100.0	3140.0	3253.0	3274.0	3329.0	3472.0	3636.0	3840.0	4101.0
35°	3620.0	3599.0	3559.0	3527.0	3591.0	3615.0	3735.0	3912.0	4205.0	4606.0	4929.0
37.5°	4481.0	4448.0	4313.0	4130.0	4056.0	4053.0	4137.0	4406.0	4862.0	5666.0	5958.0
40°	5306.0	5307.0	5124.0	4876.0	4645.0	4633.0	4585.0	4918.0	5573.0	6660.9	6797.9
42.5°	6087.9	6082.9	5870.0	5643.0	5367.0	5331.0	5191.0	5447.0	6282.9	7479.9	7506.9
45°	6792.9	6776.9	6547.9	6401.9	6164.9	6092.9	5907.0	5988.0	6947.9	8136.9	8041.9
47.5°	7473.9	7457.9	7171.9	7030.9	6822.9	6762.9	6565.9	6601.9	7583.9	8683.9	8474.9
50°	8176.9	8171.9	7757.9	7620.9	7399.9	7374.9	7255.9	7281.9	8247.9	9138.9	8877.9
52.5°	9009.9	8880.9	8415.9	8153.9	7996.9	7995.9	7862.9	7929.9	8981.9	9544.9	9157.9
55°	9903.9	9740.9	9264.9	8887.9	8617.9	8621.9	8414.9	8522.9	9626.9	9907.9	9425.9
57.5°	10541.9	10507.9	10365.9	9988.9	9430.9	9364.9	9046.9	9131.9	10192.9	10283.9	9618.9
60°	11136.9	11281.9	11376.9	11256.9	10975.9	10784.9	9902.9	9775.9	10691.9	10614.9	9719.9
62.5°	11511.9	11586.9	12029.9	12194.9	12635.9	12650.9	11595.9	10555.9	11116.9	10822.9	9764.9
65°	11098.9	11209.9	11943.9	12588.9	13846.9	13918.9	13473.9	11856.9	11455.9	10894.9	9679.9
67.5°	9946.9	10062.9	10944.9	12267.9	14516.9	14565.9	14103.9	13206.9	11624.9	10879.9	9430.9
68°	9651.9	9775.9	10695.9	12146.9	14562.9	14585.9	14128.9	13318.9	11635.9	10862.9	9349.9
70°	8430.9	8552.9	9484.9	11389.9	14380.9	14395.9	13970.9	13436.9	11578.9	10716.9	8816.9
72.5°	6622.9	6745.9	7480.9	9661.9	13466.9	13597.9	13380.9	13100.9	11337.9	10147.9	7559.9
75°	4693.0	4819.0	5584.0	7561.9	11609.9	11973.9	12406.9	12456.9	10435.9	8714.9	5632.0
77.5°	3309.0	3412.0	4074.0	5653.0	9369.9	9840.9	10742.9	10816.9	8739.9	6649.9	2971.0
80°	2148.0	2236.0	2829.0	4143.0	7082.9	7489.9	8480.9	8174.9	6210.9	3616.0	517.0
82.5°	1297.0	1363.0	1802.0	2866.0	5183.0	5454.0	5858.0	4908.0	2882.0	511.0	181.0
85°	744.0	789.0	1113.0	1841.0	3652.0	3883.0	3939.0	2464.0	542.0	141.0	102.0
87.5°	381.0	404.0	597.0	1131.0	2158.0	2257.0	1976.0	882.0	108.0	63.0	51.0
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°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2526.0	2533.0	2538.0	2555.0	2573.0	2582.0	2573.0	2587.0	2592.0	2588.0	2582.0
5°	2532.0	2543.0	2551.0	2585.0	2605.0	2620.0	2610.0	2630.0	2637.0	2629.0	2629.0
7.5°	2549.0	2564.0	2577.0	2622.0	2645.0	2665.0	2659.0	2673.0	2679.0	2669.0	2675.0
10°	2594.0	2609.0	2626.0	2682.0	2697.0	2716.0	2705.0	2716.0	2718.0	2711.0	2716.0
12.5°	2672.0	2682.0	2715.0	2772.0	2774.0	2779.0	2756.0	2735.0	2726.0	2713.0	2722.0
15°	2772.0	2790.0	2835.0	2883.0	2870.0	2859.0	2802.0	2734.0	2691.0	2659.0	2657.0
17.5°	2883.0	2915.0	2971.0	3002.0	2972.0	2922.0	2826.0	2711.0	2607.0	2550.0	2532.0
20°	2997.0	3047.0	3109.0	3115.0	3064.0	2968.0	2822.0	2652.0	2480.0	2374.0	2348.0
22.5°	3136.0	3201.0	3257.0	3227.0	3125.0	2984.0	2785.0	2548.0	2312.0	2151.0	2127.0
25°	3320.0	3384.0	3394.0	3306.0	3148.0	2954.0	2700.0	2393.0	2094.0	1894.0	1875.0
27.5°	3542.0	3576.0	3511.0	3347.0	3120.0	2864.0	2555.0	2178.0	1851.0	1677.0	1648.0
30°	3788.0	3776.0	3597.0	3348.0	3038.0	2711.0	2335.0	1934.0	1659.0	1509.0	1481.0
32.5°	4100.0	4021.0	3684.0	3303.0	2903.0	2505.0	2076.0	1739.0	1527.0	1374.0	1347.0
35°	4720.0	4480.0	3802.0	3232.0	2724.0	2258.0	1849.0	1598.0	1414.0	1238.0	1213.0
37.5°	5663.0	5166.0	4015.0	3154.0	2525.0	2005.0	1675.0	1488.0	1325.0	1137.0	1098.0
40°	6489.9	5924.0	4355.0	3081.0	2322.0	1813.0	1575.0	1435.0	1276.0	1086.0	1046.0
42.5°	7124.9	6530.9	4744.0	2994.0	2110.0	1671.0	1533.0	1428.0	1270.0	1086.0	1049.0
45°	7637.9	7031.9	5090.0	2899.0	1905.0	1559.0	1495.0	1415.0	1258.0	1080.0	1045.0
47.5°	8042.9	7405.9	5363.0	2790.0	1692.0	1483.0	1456.0	1370.0	1227.0	1062.0	1027.0
50°	8393.9	7673.9	5516.0	2662.0	1503.0	1423.0	1401.0	1298.0	1165.0	1009.0	986.0
52.5°	8638.9	7891.9	5574.0	2609.0	1368.0	1355.0	1326.0	1225.0	1098.0	946.0	920.0
55°	8822.9	8003.9	5526.0	2488.0	1233.0	1250.0	1237.0	1169.0	1051.0	907.0	881.0
57.5°	8916.9	8040.9	5389.0	2032.0	1105.0	1125.0	1134.0	1138.0	1044.0	918.0	894.0
60°	8949.9	7982.9	5090.0	1451.0	968.0	1008.0	1058.0	1073.0	1013.0	876.0	856.0
62.5°	8899.9	7831.9	4504.0	1003.0	864.0	935.0	1001.0	997.0	933.0	814.0	787.0
65°	8704.9	7461.9	3425.0	809.0	829.0	902.0	975.0	926.0	864.0	754.0	740.0
67.5°	8232.9	6682.9	1921.0	747.0	818.0	883.0	930.0	871.0	802.0	698.0	692.0
68°	8092.9	6453.9	1640.0	743.0	816.0	877.0	918.0	857.0	790.0	689.0	685.0
70°	7276.9	5274.0	740.0	730.0	804.0	855.0	885.0	818.0	746.0	658.0	652.0
72.5°	5623.0	3266.0	497.0	694.0	774.0	822.0	841.0	778.0	718.0	620.0	612.0
75°	3333.0	898.0	471.0	632.0	723.0	790.0	810.0	747.0	676.0	563.0	550.0
77.5°	820.0	324.0	456.0	562.0	670.0	737.0	769.0	726.0	640.0	507.0	494.0
80°	249.0	258.0	434.0	486.0	603.0	658.0	677.0	677.0	592.0	357.0	376.0
82.5°	164.0	207.0	370.0	365.0	479.0	545.0	509.0	511.0	465.0	159.0	186.0
85°	103.0	169.0	250.0	239.0	305.0	334.0	362.0	372.0	327.0	46.0	3.0
87.5°	53.0	72.0	88.0	94.0	121.0	173.0	232.0	228.0	168.0	41.0	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)