

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: P285825

Luminaire Tested: **USSL-XL-C047-D-U-T4-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285825
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-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27158.9 lumens
Efficiency: N/A
Efficacy: 154.3 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

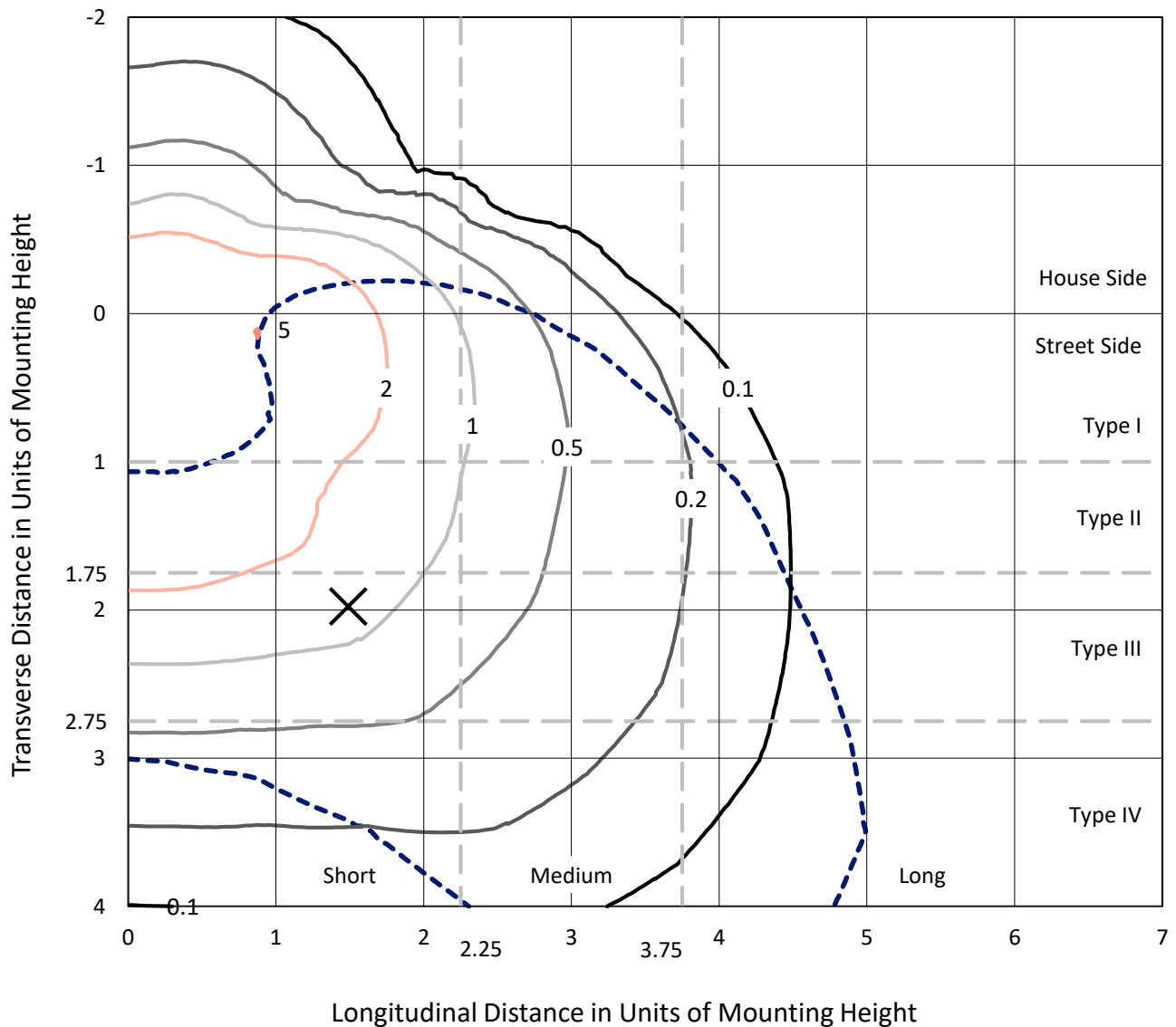


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

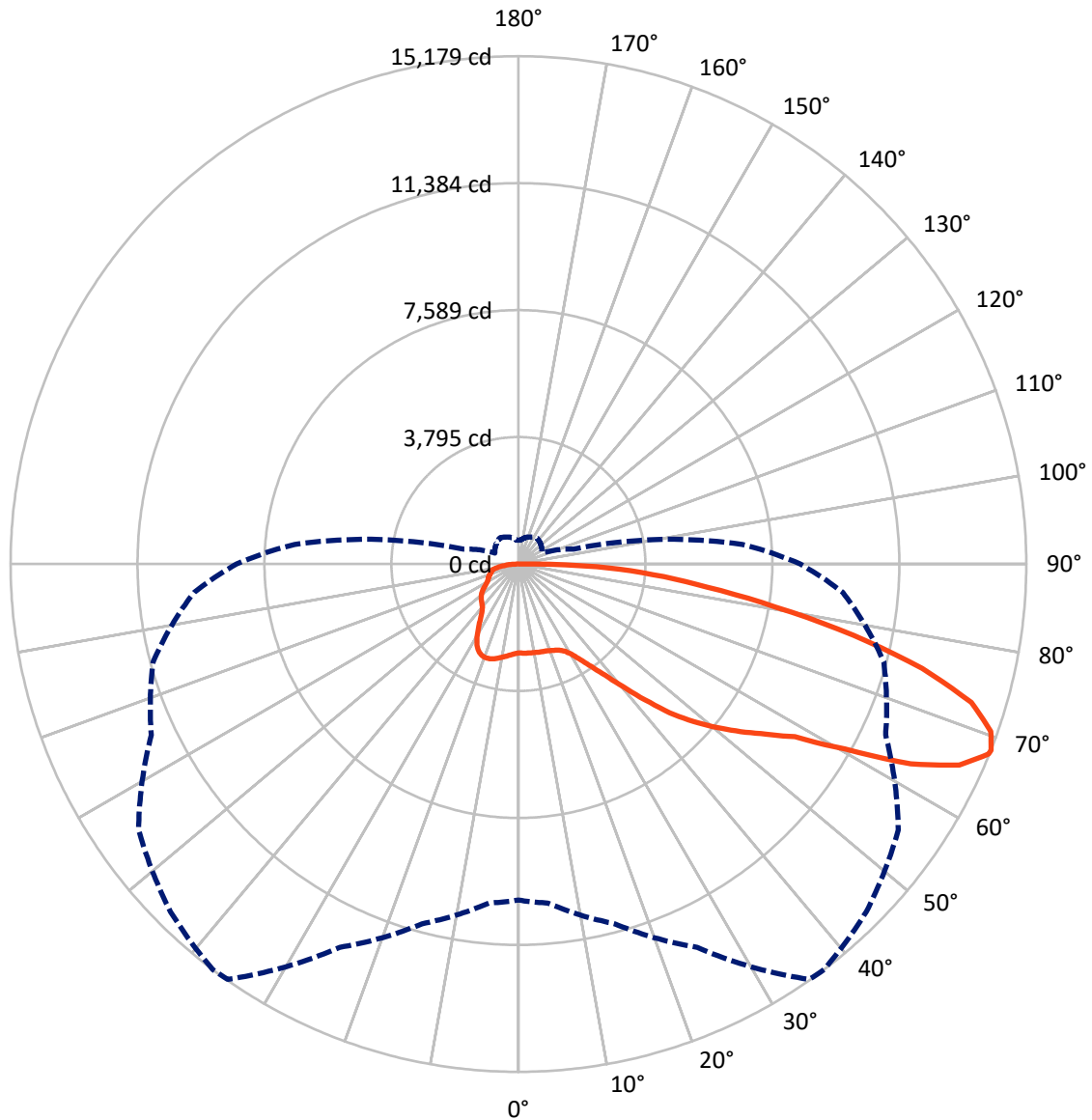


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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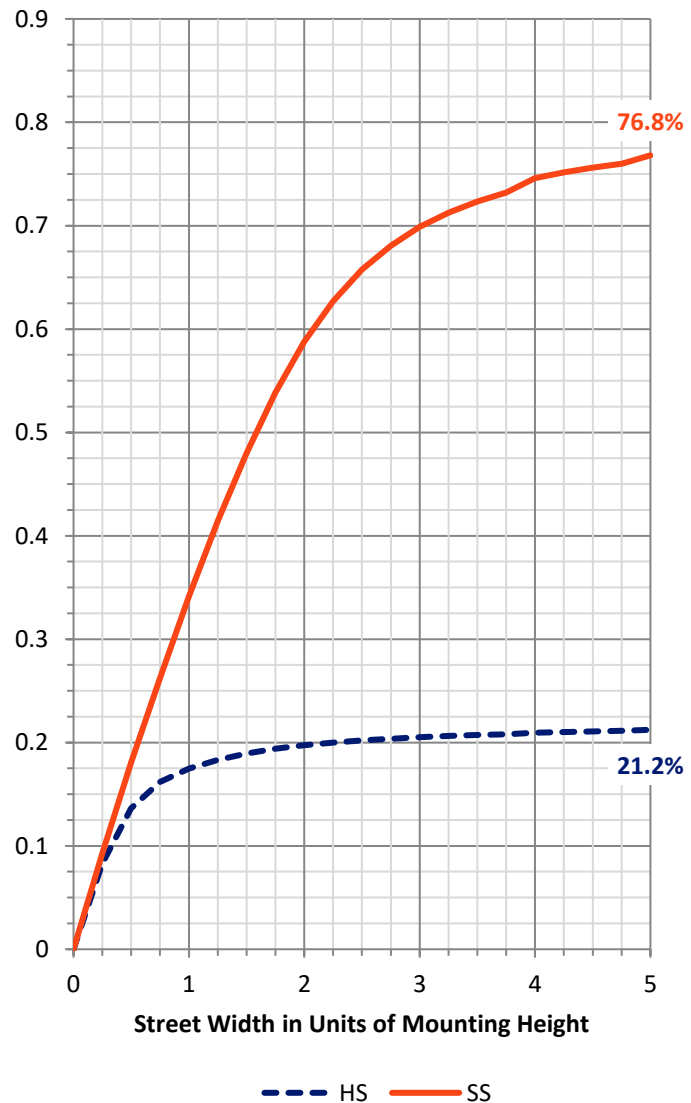
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5864.4	0.0	5864.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21294.5	0.0	21294.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	27158.9	0.0	27158.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.9	0.9
10°-20°	801.6	3.0
20°-30°	1369.2	5.0
30°-40°	2181.4	8.0
40°-50°	3783.3	13.9
50°-60°	5484.1	20.2
60°-70°	6916.1	25.5
70°-80°	5124.8	18.9
80°-90°	1240.4	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°	27158.9	100.0
0°-180°	27158.9	100.0



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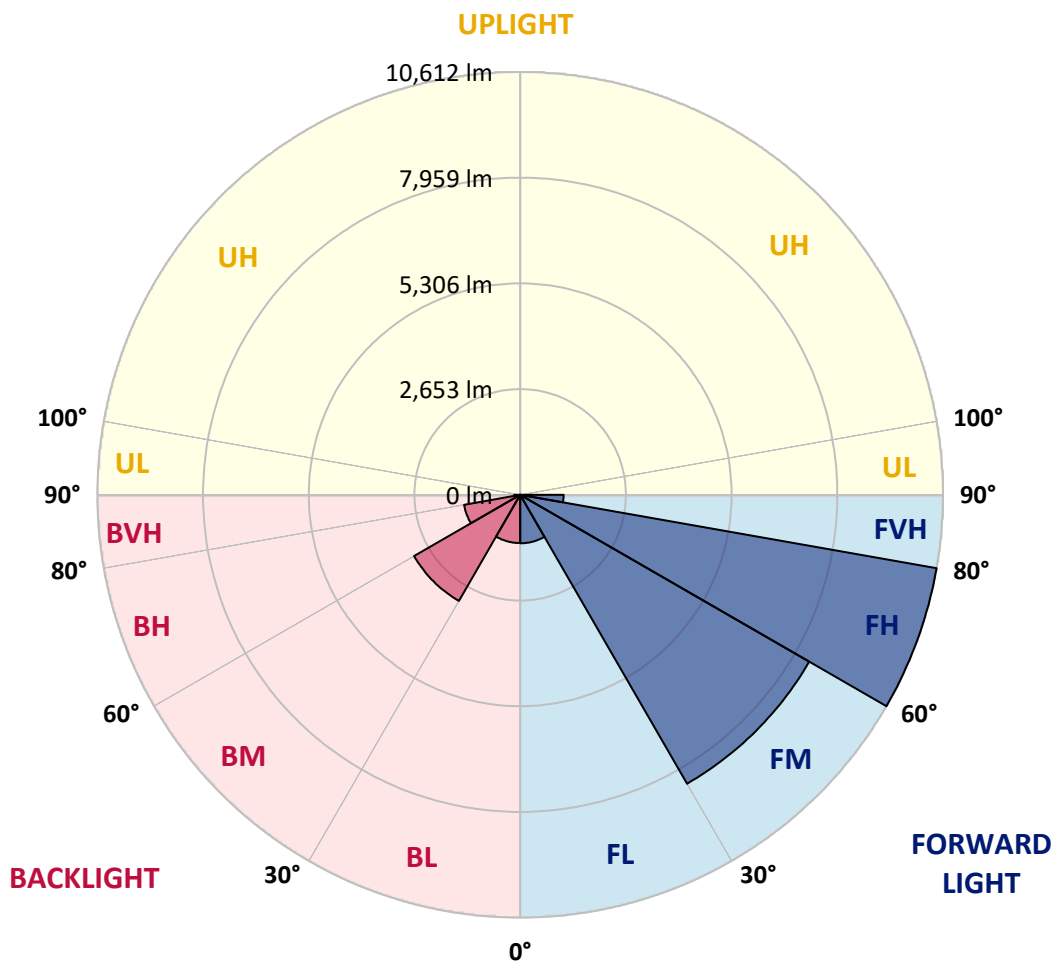
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1217.5	4.5			
FM	(30°-60°)	8374.6	30.8			
FH	(60°-80°)	10612.3	39.1			G4/12000
FVH	(80°-90°)	1090.1	4.0			G5
BL	(0°-30°)	1211.2	4.5	B3/2500		
BM	(30°-60°)	3074.2	11.3	B3/5000		
BH	(60°-80°)	1428.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	150.4	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°	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7
2.5°	2654.6	2661.9	2664.1	2659.9	2664.1	2668.2	2658.9	2657.8	2653.7	2637.0	2639.0
5°	2655.7	2665.1	2666.1	2663.0	2670.3	2674.4	2670.3	2666.1	2661.9	2638.0	2643.2
7.5°	2655.7	2663.0	2665.1	2663.0	2673.4	2680.7	2680.7	2683.8	2683.8	2656.7	2660.9
10°	2646.4	2652.6	2655.7	2660.9	2678.6	2689.0	2695.2	2709.8	2718.1	2699.5	2700.4
12.5°	2603.6	2608.8	2619.3	2649.4	2691.1	2703.6	2721.3	2747.3	2768.1	2768.1	2770.2
15°	2570.4	2575.6	2595.4	2636.0	2699.5	2716.1	2750.4	2794.1	2832.6	2853.5	2870.1
17.5°	2578.7	2585.0	2614.1	2648.5	2711.9	2728.6	2777.5	2841.0	2904.4	2949.2	2982.5
20°	2604.7	2608.8	2642.2	2681.8	2749.4	2760.8	2808.7	2886.7	2975.2	3049.1	3103.2
22.5°	2678.6	2676.6	2703.6	2719.2	2788.9	2799.3	2854.5	2934.7	3049.1	3160.4	3239.5
25°	2740.1	2749.4	2771.2	2783.7	2841.0	2850.3	2919.0	3007.5	3139.6	3283.3	3410.2
27.5°	2807.7	2815.9	2837.8	2866.0	2946.1	2951.3	2999.1	3108.4	3255.2	3431.0	3633.9
30°	2960.6	2959.6	2981.4	3011.6	3119.8	3129.2	3174.0	3286.3	3422.6	3642.2	3886.8
32.5°	3225.0	3222.8	3226.0	3267.6	3385.2	3407.0	3464.3	3613.1	3783.7	3996.0	4267.7
35°	3767.1	3745.3	3703.6	3670.3	3736.9	3761.9	3886.8	4071.0	4375.9	4793.2	5129.3
37.5°	4663.1	4628.8	4488.3	4297.9	4220.8	4217.8	4305.1	4585.0	5059.6	5896.2	6200.1
40°	5521.7	5522.7	5332.3	5074.2	4833.8	4821.3	4771.4	5117.8	5799.5	6931.7	7074.3
42.5°	6335.4	6330.3	6108.5	5872.4	5585.1	5547.6	5402.0	5668.3	6538.3	7784.0	7812.1
45°	7069.1	7052.5	6814.1	6662.2	6415.6	6340.6	6147.1	6231.4	7230.4	8467.6	8368.9
47.5°	7777.8	7761.1	7463.5	7316.7	7100.3	7037.8	6832.9	6870.3	7892.2	9036.9	8819.4
50°	8509.3	8504.1	8073.3	7930.7	7700.7	7674.7	7550.9	7578.0	8583.2	9510.4	9238.8
52.5°	9376.2	9241.9	8758.1	8485.3	8322.0	8321.0	8182.5	8252.3	9347.0	9933.0	9530.2
55°	10306.5	10136.9	9641.6	9249.2	8968.2	8972.4	8757.0	8869.3	10018.3	10310.7	9809.1
57.5°	10970.4	10935.1	10787.2	10395.0	9814.3	9745.6	9414.7	9503.2	10607.3	10701.9	10009.9
60°	11589.6	11740.5	11839.4	11714.5	11422.1	11223.3	10305.5	10173.3	11126.5	11046.4	10115.0
62.5°	11979.8	12058.0	12518.9	12690.6	13149.5	13165.1	12067.3	10985.0	11568.8	11262.8	10161.9
65°	11550.0	11665.6	12429.4	13100.7	14409.8	14484.7	14021.6	12338.9	11921.5	11337.8	10073.4
67.5°	10351.3	10472.0	11389.8	12766.6	15107.0	15157.9	14677.2	13743.7	12097.5	11322.2	9814.3
68°	10044.2	10173.3	11130.6	12640.7	15154.9	15178.8	14703.3	13860.3	12108.9	11304.5	9730.0
70°	8773.6	8900.6	9870.5	11852.9	14965.5	14981.1	14538.8	13983.0	12049.6	11152.6	9175.3
72.5°	6892.2	7020.1	7785.1	10054.6	14014.3	14150.6	13924.9	13633.4	11798.8	10560.4	7867.2
75°	4883.7	5014.8	5810.9	7869.3	12081.8	12460.6	12911.3	12963.3	10860.2	9069.1	5860.9
77.5°	3443.5	3550.7	4239.6	5882.8	9750.8	10241.0	11179.6	11256.7	9095.2	6920.3	3091.7
80°	2235.3	2326.9	2944.0	4311.4	7370.9	7794.4	8825.7	8507.3	6463.4	3763.0	538.0
82.5°	1349.7	1418.4	1875.3	2982.5	5393.6	5675.7	6096.1	5107.4	2999.1	531.8	188.3
85°	774.3	821.1	1158.3	1915.8	3800.4	4040.8	4099.1	2564.1	564.1	146.7	106.1
87.5°	396.5	420.5	621.3	1176.9	2245.7	2348.7	2056.3	917.9	112.3	65.6	53.1
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°	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7	2653.7
2.5°	2628.7	2636.0	2641.2	2658.9	2677.5	2687.0	2677.5	2692.1	2697.3	2693.2	2687.0
5°	2634.9	2646.4	2654.6	2690.0	2710.9	2726.5	2716.1	2736.9	2744.2	2735.8	2735.8
7.5°	2652.6	2668.2	2681.8	2728.6	2752.5	2773.3	2767.1	2781.6	2787.9	2777.5	2783.7
10°	2699.5	2715.0	2732.7	2791.0	2806.6	2826.3	2814.9	2826.3	2828.4	2821.1	2826.3
12.5°	2780.5	2791.0	2825.4	2884.6	2886.7	2891.9	2868.0	2846.1	2836.8	2823.3	2832.6
15°	2884.6	2903.4	2950.2	3000.2	2986.7	2975.2	2915.9	2845.1	2800.4	2767.1	2765.0
17.5°	3000.2	3033.4	3091.7	3124.1	3092.8	3040.7	2940.9	2821.1	2712.9	2653.7	2634.9
20°	3118.8	3170.8	3235.3	3241.6	3188.5	3088.7	2936.7	2759.8	2580.8	2470.5	2443.4
22.5°	3263.4	3331.1	3389.3	3358.2	3252.0	3105.3	2898.2	2651.6	2406.0	2238.4	2213.5
25°	3455.0	3521.5	3531.9	3440.3	3275.9	3074.0	2809.7	2490.2	2179.2	1971.0	1951.2
27.5°	3685.9	3721.3	3653.7	3483.0	3246.8	2980.4	2658.9	2266.5	1926.3	1745.1	1715.0
30°	3942.0	3929.5	3743.1	3484.1	3161.5	2821.1	2429.9	2012.6	1726.5	1570.3	1541.2
32.5°	4266.6	4184.4	3833.8	3437.3	3021.0	2606.8	2160.4	1809.7	1589.1	1429.8	1401.7
35°	4911.8	4662.1	3956.5	3363.4	2834.7	2349.8	1924.1	1663.0	1471.5	1288.3	1262.3
37.5°	5893.1	5375.9	4178.1	3282.2	2627.6	2086.5	1743.1	1548.5	1378.8	1183.2	1142.6
40°	6753.8	6164.8	4532.0	3206.2	2416.4	1886.7	1639.0	1493.3	1327.8	1130.2	1088.5
42.5°	7414.5	6796.4	4936.8	3115.7	2195.8	1738.9	1595.3	1486.1	1321.6	1130.2	1091.6
45°	7948.4	7317.8	5296.9	3016.8	1982.4	1622.4	1555.7	1472.5	1309.1	1123.9	1087.5
47.5°	8369.9	7707.0	5581.0	2903.4	1760.8	1543.3	1515.1	1425.7	1276.9	1105.2	1068.7
50°	8735.2	7985.9	5740.2	2770.2	1564.1	1480.8	1457.9	1350.7	1212.3	1050.0	1026.1
52.5°	8990.1	8212.7	5800.5	2715.0	1423.6	1410.1	1379.9	1274.7	1142.6	984.4	957.4
55°	9181.6	8329.3	5750.6	2589.1	1283.1	1300.8	1287.2	1216.6	1093.7	943.8	916.8
57.5°	9279.4	8367.8	5608.0	2114.6	1149.9	1170.8	1180.1	1184.2	1086.4	955.3	930.4
60°	9313.8	8307.4	5296.9	1509.9	1007.3	1049.0	1101.0	1116.6	1054.2	911.6	890.7
62.5°	9261.7	8150.3	4687.1	1043.8	899.1	973.0	1041.7	1037.5	970.9	847.1	819.0
65°	9058.8	7765.3	3564.2	841.9	862.7	938.6	1014.6	963.7	899.1	784.6	770.1
67.5°	8567.6	6954.6	1999.1	777.3	851.2	918.9	967.8	906.4	834.6	726.3	720.1
68°	8421.9	6716.3	1706.7	773.2	849.2	912.7	955.3	891.8	822.1	717.0	712.9
70°	7572.8	5488.4	770.1	759.6	836.7	889.8	920.9	851.2	776.3	684.7	678.5
72.5°	5851.5	3398.8	517.2	722.2	805.4	855.4	875.2	809.7	747.2	645.2	636.9
75°	3468.4	934.5	490.1	657.7	752.4	822.1	842.9	777.3	703.5	585.9	572.3
77.5°	853.3	337.2	474.5	584.9	697.2	766.9	800.2	755.5	666.0	527.6	514.1
80°	259.1	268.5	451.6	505.8	627.5	684.7	704.5	704.5	616.0	371.5	391.3
82.5°	170.6	215.4	385.1	379.9	498.5	567.2	529.7	531.8	484.0	165.5	193.5
85°	107.2	175.8	260.2	248.8	317.4	347.5	376.7	387.1	340.3	47.9	3.1
87.5°	55.1	74.9	91.6	97.8	125.9	180.1	241.4	237.3	174.8	42.7	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)