

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: P285775

Luminaire Tested: **USSL-XL-C047-D-U-T2-BZ-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
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-T2-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24620 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

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

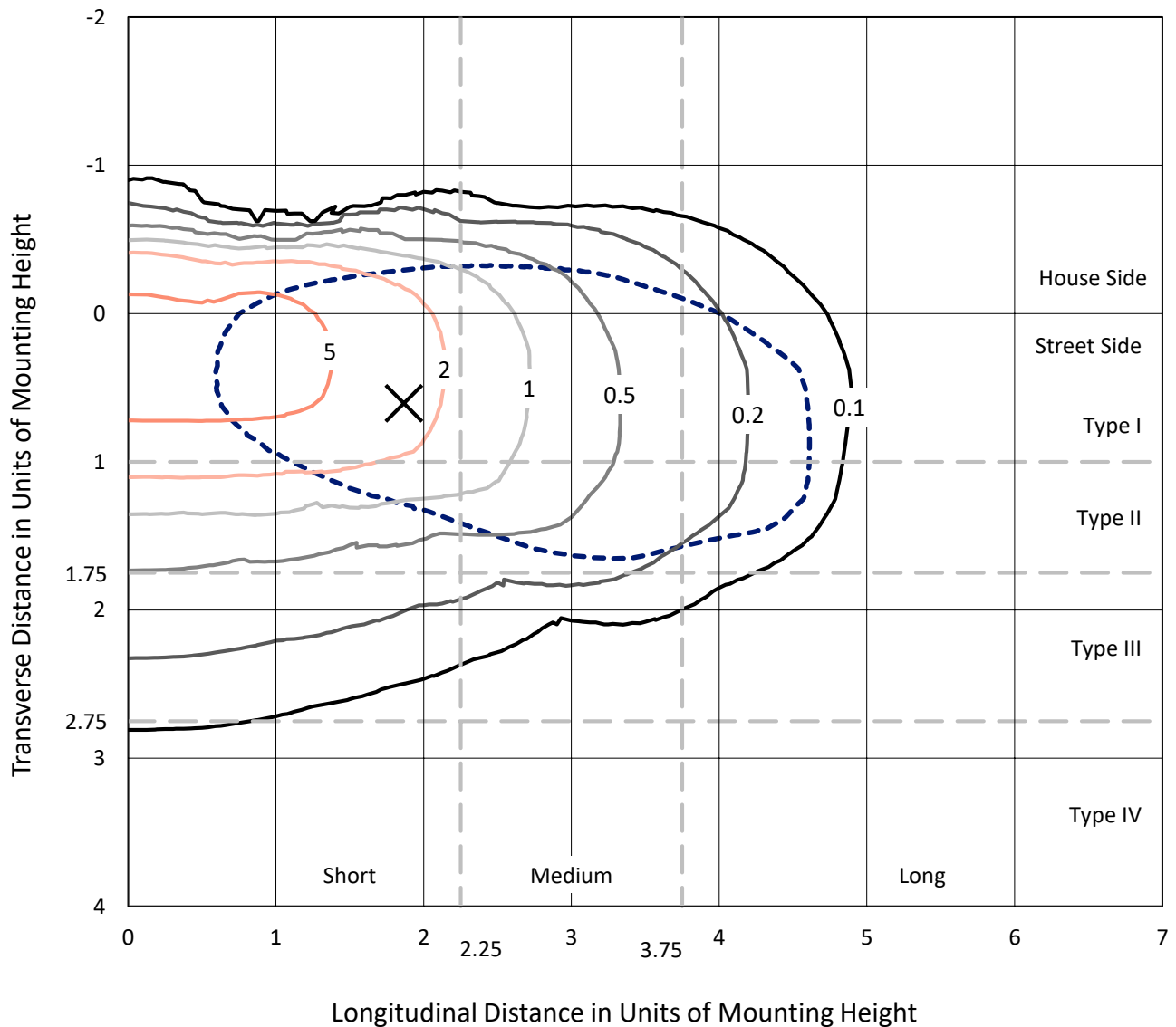


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

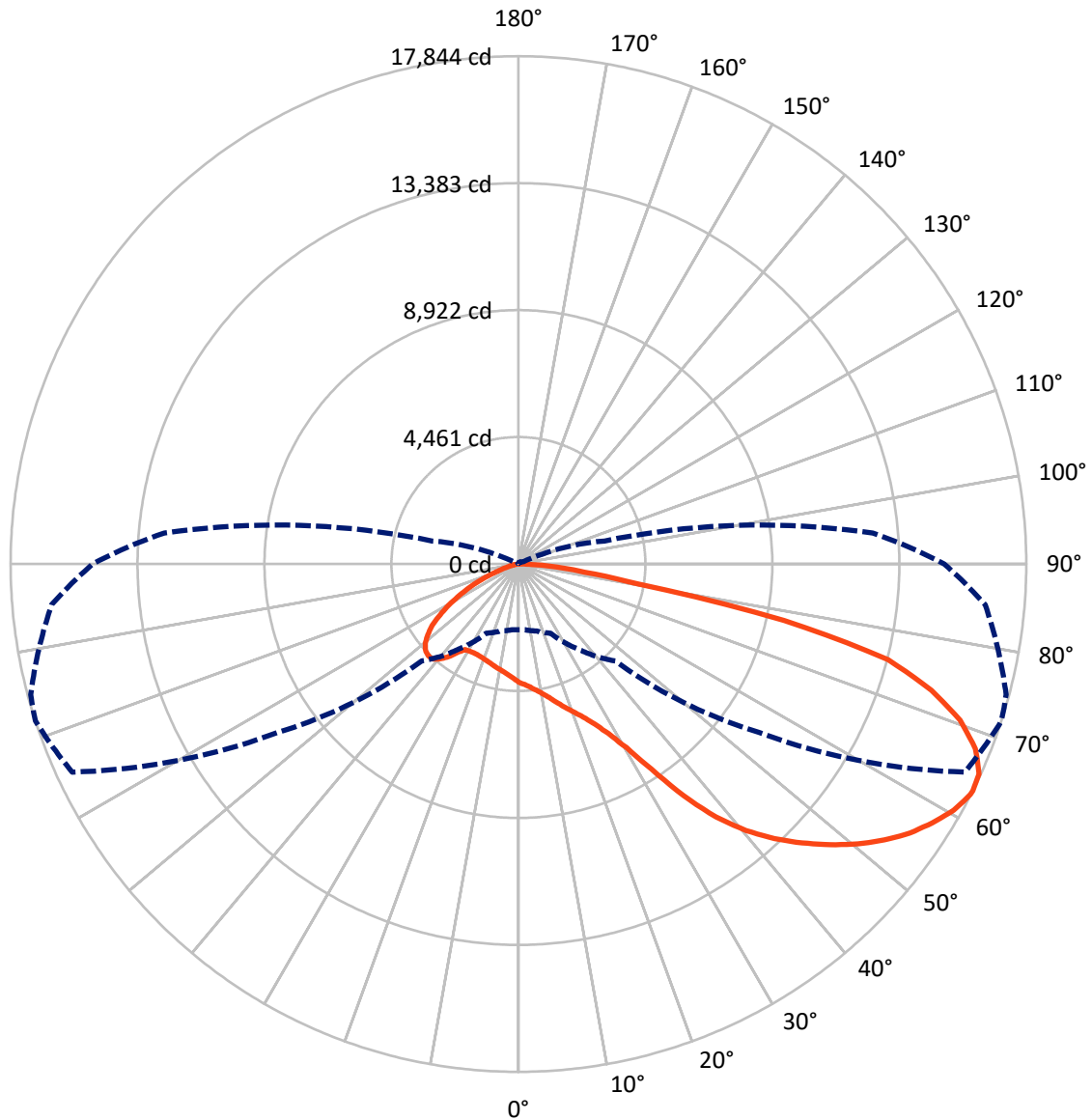


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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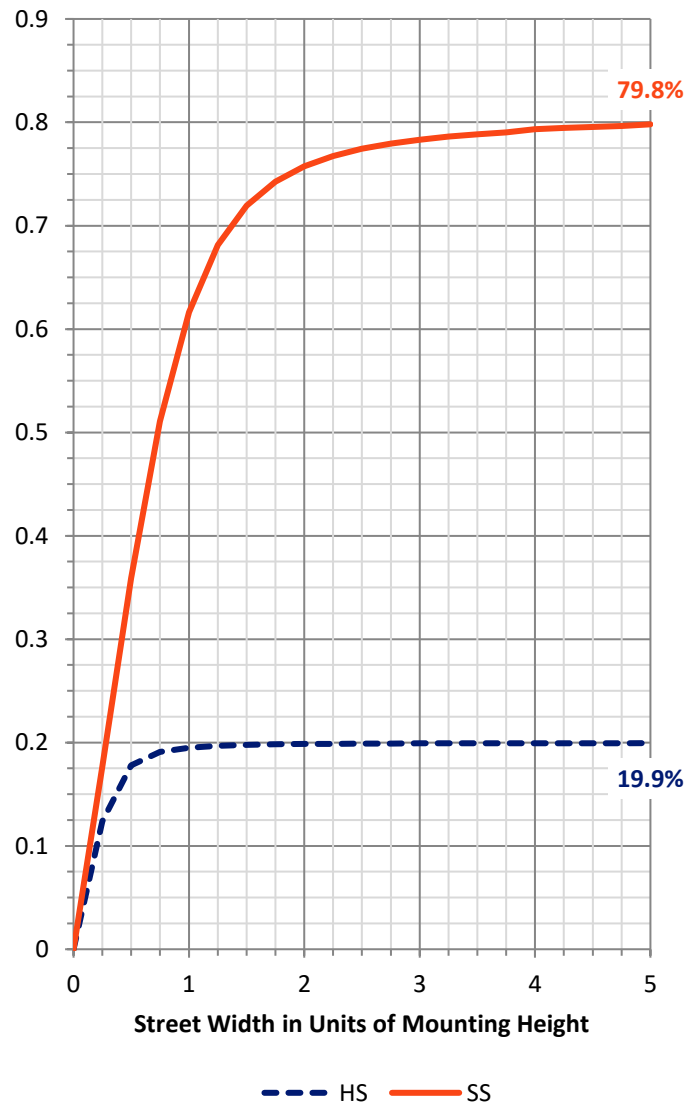
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4967.0	0.0	4967.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	19653.0	0.0	19653.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	24620.0	0.0	24620.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.9	1.6
10°-20°	1206.6	4.9
20°-30°	2035.8	8.3
30°-40°	3115.7	12.7
40°-50°	4340.6	17.6
50°-60°	5030.8	20.4
60°-70°	4932.0	20.0
70°-80°	3079.2	12.5
80°-90°	481.3	2.0
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°	24620.0	100.0
0°-180°	24620.0	100.0



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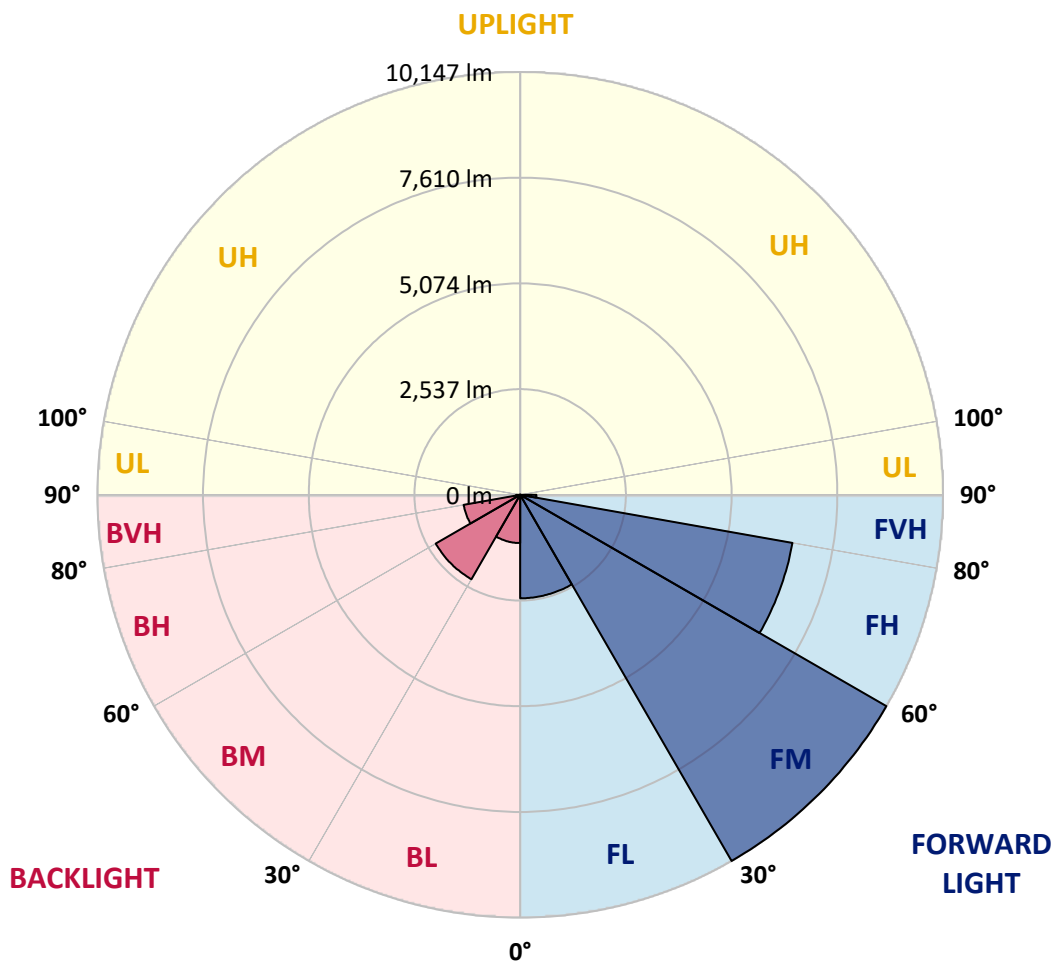
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2482.4	10.1			
FM (30°-60°)	10147.3	41.2			
FH (60°-80°)	6634.3	26.9			G3/7500
FVH (80°-90°)	389.1	1.6			G3/500
BL (0°-30°)	1157.9	4.7	B3/2500		
BM (30°-60°)	2340.0	9.5	B2/2500		
BH (60°-80°)	1376.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	92.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3
2.5°	4527.7	4515.5	4502.3	4486.0	4472.7	4432.0	4395.3	4325.1	4238.6	4234.5	4164.2
5°	4836.2	4816.9	4801.6	4773.1	4741.5	4669.2	4584.7	4466.6	4343.4	4324.1	4199.9
7.5°	5093.8	5073.4	5056.1	5019.5	4983.8	4895.3	4786.3	4627.5	4474.8	4436.1	4249.8
10°	5318.8	5298.4	5290.3	5250.6	5225.1	5128.4	4993.0	4820.9	4629.5	4570.5	4325.1
12.5°	5556.0	5534.7	5520.4	5478.7	5448.1	5345.3	5225.1	5032.7	4815.8	4752.7	4433.0
15°	5790.2	5770.9	5738.3	5715.9	5680.3	5573.3	5460.3	5259.8	5043.9	4964.5	4577.6
17.5°	6006.1	5989.8	5965.3	5946.0	5916.5	5805.5	5682.3	5512.3	5291.3	5193.6	4743.6
20°	6164.9	6165.9	6155.7	6145.5	6155.7	6065.1	5965.3	5776.0	5548.9	5434.9	4915.6
22.5°	6301.3	6309.5	6322.7	6338.0	6403.1	6358.3	6238.2	6084.5	5841.1	5706.7	5136.6
25°	6368.5	6374.6	6433.7	6533.5	6680.1	6679.1	6567.1	6456.1	6225.0	6085.5	5444.0
27.5°	6408.2	6416.4	6498.8	6699.4	6958.0	6997.7	6951.9	6903.0	6742.2	6602.7	5850.3
30°	6406.2	6417.4	6544.7	6796.1	7176.9	7378.5	7382.6	7562.8	7486.4	7390.7	6535.5
32.5°	6253.5	6257.5	6434.7	6805.3	7341.9	7716.5	7884.5	8357.0	8593.2	8610.5	7801.1
35°	5891.0	5942.9	6207.7	6722.8	7461.0	8047.4	8482.2	9372.1	9999.2	10028.8	9071.7
37.5°	5630.4	5661.9	5963.3	6575.2	7516.0	8392.6	9168.4	10590.8	11277.0	11204.7	10123.5
40°	5345.3	5384.0	5693.5	6377.7	7481.4	8688.9	9867.9	11760.6	12310.4	12197.4	11019.4
42.5°	5029.7	5062.2	5353.4	6085.5	7371.4	8902.7	10542.9	12771.7	13194.2	13055.7	11833.9
45°	4719.1	4740.5	5016.4	5691.5	7159.6	9033.0	11158.9	13681.9	13978.2	13861.1	12584.3
47.5°	4325.1	4350.5	4688.6	5315.8	6771.7	9028.9	11692.4	14491.3	14738.7	14608.4	13253.2
50°	3335.5	3351.7	4098.0	4974.7	6270.8	8849.7	12149.6	15224.4	15457.5	15308.9	13915.0
52.5°	3021.9	3035.1	3266.2	4550.1	5724.0	8478.1	12449.9	15900.4	16111.2	15952.4	14539.2
55°	2872.2	2881.4	2993.4	3703.0	5244.5	7840.8	12582.3	16526.6	16686.4	16480.8	15046.2
57.5°	2660.4	2678.7	2847.8	3171.5	4775.1	6862.3	12392.9	17032.6	17152.8	16951.2	15540.0
60°	2499.6	2510.8	2653.3	2909.9	4208.0	5767.8	11716.9	17374.7	17570.2	17387.9	16004.3
62.5°	2342.8	2346.8	2466.0	2715.4	3715.2	4950.2	10563.3	17353.3	17826.8	17713.8	16409.5
63°	2309.2	2313.2	2434.4	2679.8	3642.9	4814.8	10310.8	17301.4	17844.1	17741.2	16463.5
65°	2166.6	2172.7	2290.8	2516.9	3329.3	4386.2	9192.9	16981.7	17786.0	17783.0	16535.8
67.5°	1953.8	1965.0	2065.8	2259.3	2901.7	3844.5	7469.1	16640.6	17319.7	17356.4	16131.5
70°	1696.2	1704.4	1818.4	1981.3	2441.5	3264.2	5720.0	15550.2	16462.4	16360.6	15194.9
72.5°	1423.4	1437.6	1546.6	1672.8	2025.1	2693.0	4141.8	13690.0	15175.5	15250.9	13623.8
75°	1242.1	1250.3	1344.0	1433.6	1682.0	2143.2	2770.4	9830.2	13418.2	13437.5	11752.5
77.5°	1030.4	1040.5	1137.3	1221.8	1364.3	1613.8	1911.1	5109.1	9541.1	10082.7	9125.7
80°	568.1	659.8	819.6	881.7	987.6	980.5	1215.7	2700.1	4222.3	5279.1	6027.4
82.5°	95.7	123.2	330.9	431.7	470.4	413.4	590.5	1486.5	2354.0	2701.1	3243.8
85°	40.7	59.1	173.1	189.4	118.1	115.1	233.2	777.9	1347.0	1551.7	1671.8
87.5°	5.1	9.2	44.8	59.1	27.5	37.7	46.8	243.3	469.4	539.6	609.9
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°	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3	4167.3
2.5°	4130.6	4107.2	4053.3	4011.5	3981.0	3939.2	3894.4	3861.8	3827.2	3811.9	3818.1
5°	4136.7	4084.8	3969.8	3879.1	3778.4	3704.0	3607.3	3558.4	3505.5	3479.0	3478.0
7.5°	4153.0	4071.6	3890.3	3747.8	3604.2	3488.2	3361.9	3275.4	3228.5	3193.9	3189.9
10°	4193.8	4077.7	3830.3	3636.8	3451.5	3295.7	3142.0	3030.0	2965.9	2930.2	2935.3
12.5°	4267.1	4100.1	3787.5	3546.2	3308.0	3122.7	2926.2	2794.8	2716.4	2672.6	2684.9
15°	4367.9	4149.0	3743.7	3434.2	3154.2	2936.3	2726.6	2578.0	2490.4	2452.7	2464.9
17.5°	4480.9	4220.2	3713.2	3309.0	2992.3	2745.9	2551.5	2405.9	2259.3	2229.7	2229.7
20°	4607.1	4299.6	3708.1	3189.9	2832.5	2564.7	2340.7	2218.5	2005.8	1933.5	1918.2
22.5°	4774.1	4411.6	3702.0	3080.9	2662.5	2377.4	2102.5	1910.0	1634.1	1509.9	1497.7
25°	5004.2	4566.4	3712.2	2991.3	2507.7	2166.6	1774.6	1466.1	1234.0	1078.2	1070.1
27.5°	5312.7	4773.1	3744.8	2907.8	2352.9	1907.0	1374.5	1045.6	866.4	727.0	685.2
30°	5896.1	5099.9	3801.8	2833.5	2172.7	1558.8	977.4	707.6	579.3	482.6	461.2
32.5°	7011.0	5920.5	3880.2	2751.0	1950.8	1148.5	652.6	472.4	368.6	312.6	324.8
35°	8122.8	6943.8	4253.8	2629.9	1658.6	764.6	435.8	301.4	232.1	230.1	243.3
37.5°	9124.6	7848.9	4758.8	2494.5	1267.6	514.2	261.7	200.6	194.5	211.8	238.2
40°	9955.5	8584.0	5185.4	2305.1	870.5	314.6	171.0	182.2	173.1	180.2	177.2
42.5°	10727.2	9245.8	5531.6	2090.3	513.1	181.2	148.6	169.0	155.8	149.7	137.5
45°	11421.6	9869.9	5705.7	1752.2	299.3	144.6	135.4	159.8	150.7	139.5	121.2
47.5°	12053.9	10417.7	5819.7	1290.0	172.1	126.3	126.3	143.6	141.5	128.3	118.1
50°	12709.6	10953.2	5808.5	792.1	145.6	116.1	120.1	120.1	127.3	99.8	90.6
52.5°	13288.9	11434.8	5576.4	449.0	134.4	110.0	108.9	97.7	103.9	77.4	72.3
55°	13759.3	11809.5	5186.4	296.3	127.3	108.9	95.7	84.5	79.4	56.0	58.0
57.5°	14221.5	12165.9	4589.8	234.2	132.4	104.9	87.6	72.3	62.1	43.8	41.7
60°	14667.5	12449.9	3957.5	210.8	139.5	104.9	72.3	61.1	41.7	33.6	29.5
62.5°	14937.3	12512.0	3258.1	190.4	143.6	97.7	65.2	49.9	30.5	22.4	20.4
63°	14956.6	12493.7	3133.9	187.3	144.6	97.7	65.2	47.9	29.5	20.4	18.3
65°	14927.1	12262.6	2649.2	177.2	147.6	93.7	62.1	38.7	23.4	14.3	12.2
67.5°	14433.3	11489.8	1964.0	166.0	141.5	92.7	57.0	31.6	18.3	9.2	7.1
70°	13224.7	10290.4	1312.4	147.6	136.4	90.6	67.2	26.5	15.3	5.1	4.1
72.5°	11536.6	8996.4	878.7	121.2	119.1	74.3	40.7	22.4	11.2	2.0	0.0
75°	9750.8	7240.1	543.7	92.7	96.7	63.1	32.6	19.3	9.2	0.0	0.0
77.5°	7590.3	5348.3	386.9	59.1	68.2	54.0	27.5	16.3	7.1	0.0	0.0
80°	5178.3	3624.6	280.0	32.6	35.6	35.6	22.4	12.2	4.1	0.0	0.0
82.5°	3003.5	2031.2	142.5	16.3	15.3	18.3	10.2	6.1	1.0	0.0	0.0
85°	1465.1	900.0	24.4	9.2	8.1	8.1	4.1	0.0	0.0	0.0	0.0
87.5°	496.9	233.2	3.1	4.1	3.1	1.0	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)