

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: P285837

Luminaire Tested: **USSL-XL-C04-D-U-T4-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285837
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-C04-D-U-T4-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36932 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 IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

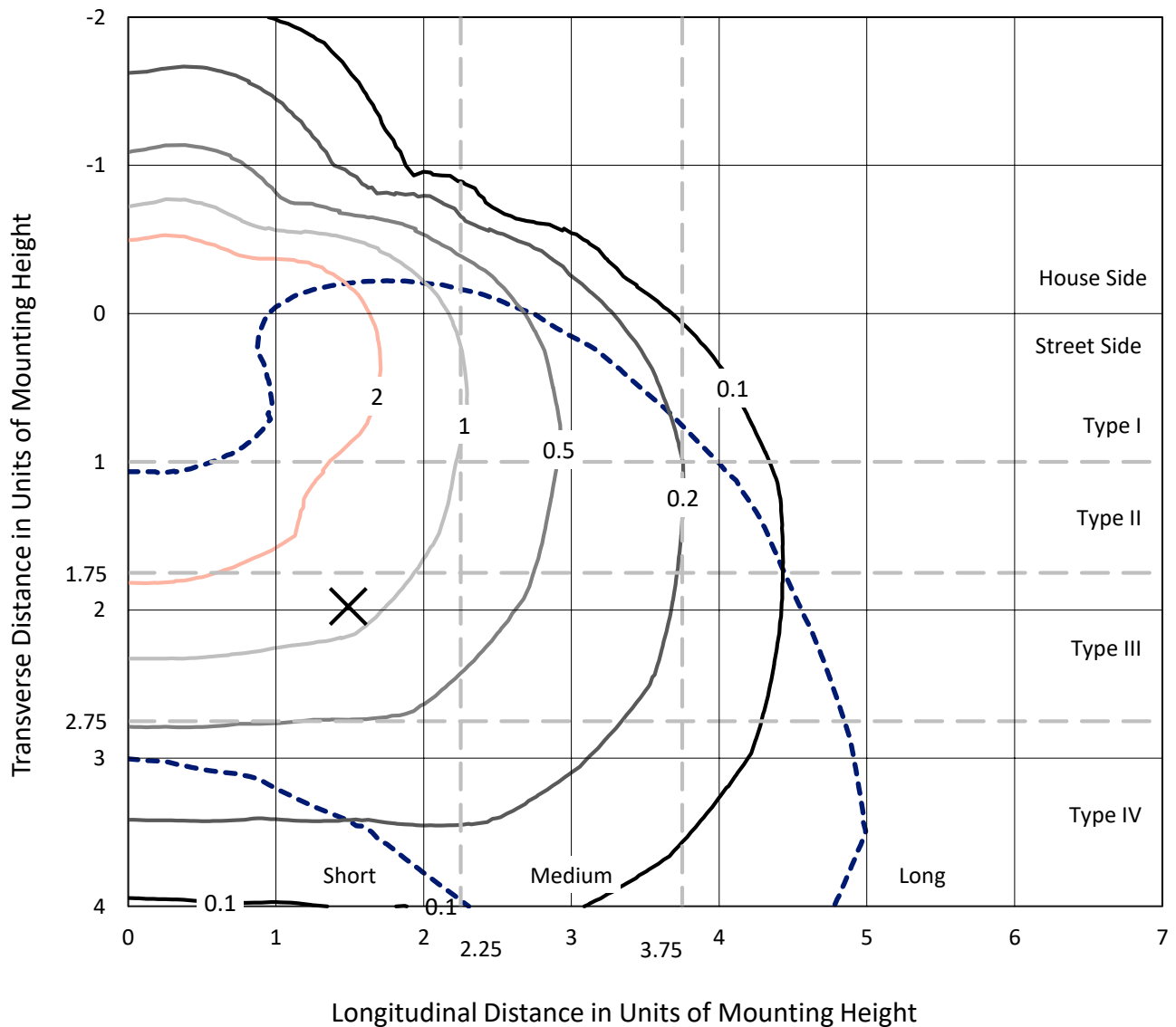
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

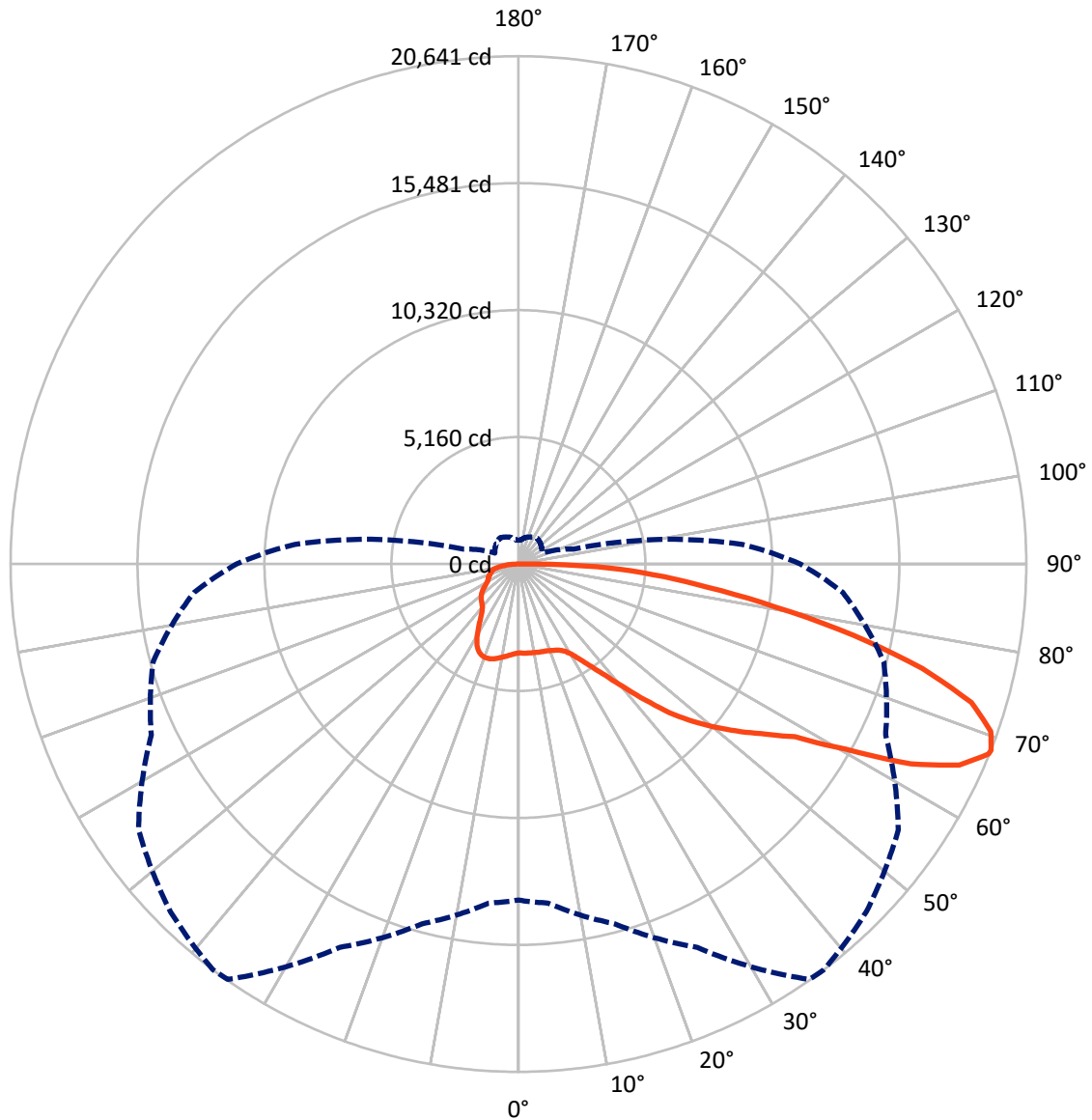
✕ Max cd
 - - - 1/2 Max cd



Based on 30 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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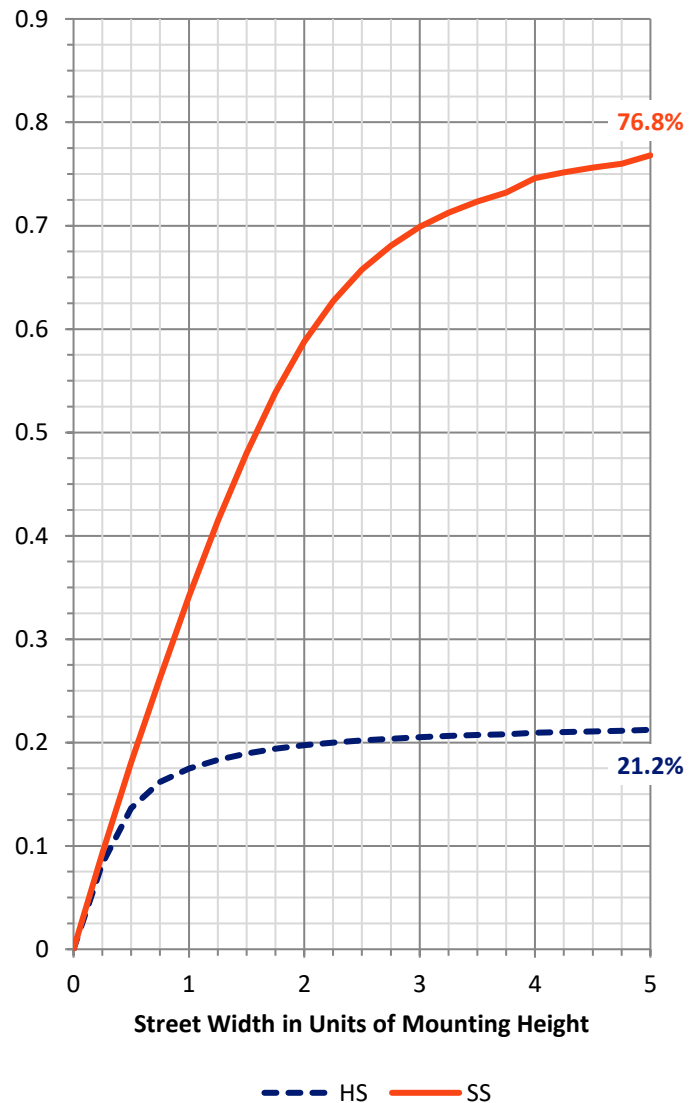
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7974.7	0.0	7974.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28957.3	0.0	28957.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	36932.0	0.0	36932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.7	0.9
10°-20°	1090.1	3.0
20°-30°	1861.9	5.0
30°-40°	2966.4	8.0
40°-50°	5144.8	13.9
50°-60°	7457.6	20.2
60°-70°	9404.8	25.5
70°-80°	6968.9	18.9
80°-90°	1686.8	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°	36932.0	100.0
0°-180°	36932.0	100.0

Coefficient of Utilization



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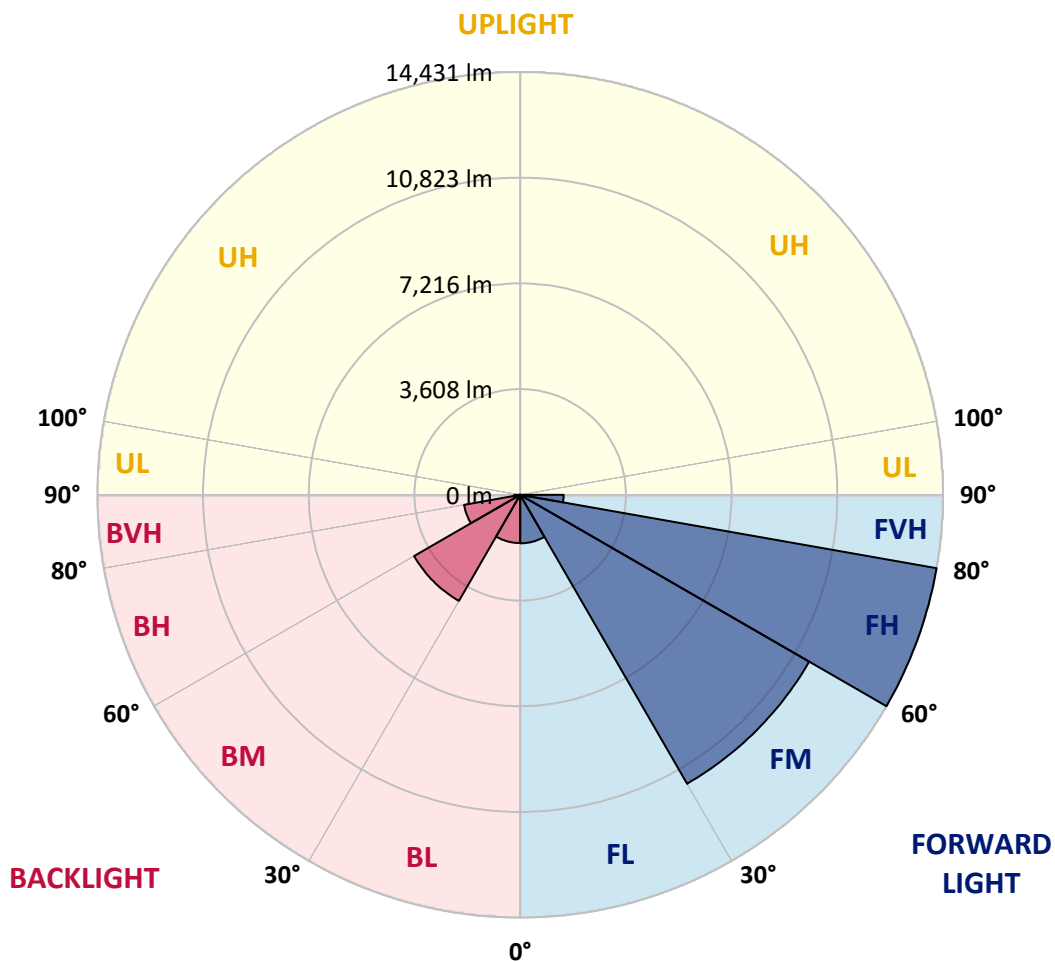
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1655.6	4.5			
FM	(30°-60°)	11388.2	30.8			
FH	(60°-80°)	14431.1	39.1			G5
FVH	(80°-90°)	1482.3	4.0			G5
BL	(0°-30°)	1647.1	4.5	B3/2500		
BM	(30°-60°)	4180.5	11.3	B3/5000		
BH	(60°-80°)	1942.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	204.4	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°	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5
2.5°	3610.0	3619.9	3622.7	3617.0	3622.7	3628.4	3615.6	3614.2	3608.5	3585.9	3588.7
5°	3611.4	3624.1	3625.5	3621.3	3631.2	3636.8	3631.2	3625.5	3619.9	3587.3	3594.4
7.5°	3611.4	3621.3	3624.1	3621.3	3635.4	3645.3	3645.3	3649.6	3649.6	3612.8	3618.5
10°	3598.6	3607.1	3611.4	3618.5	3642.5	3656.7	3665.2	3685.0	3696.3	3670.8	3672.2
12.5°	3540.6	3547.7	3561.8	3602.9	3659.5	3676.5	3700.5	3735.9	3764.2	3764.2	3767.0
15°	3495.3	3502.4	3529.3	3584.5	3670.8	3693.5	3740.2	3799.6	3851.9	3880.2	3902.9
17.5°	3506.7	3515.1	3554.8	3601.5	3687.8	3710.4	3776.9	3863.3	3949.6	4010.4	4055.7
20°	3542.0	3547.7	3593.0	3646.8	3738.7	3754.3	3819.4	3925.5	4045.8	4146.3	4219.9
22.5°	3642.5	3639.7	3676.5	3697.7	3792.5	3806.7	3881.7	3990.6	4146.3	4297.7	4405.3
25°	3726.0	3738.7	3768.5	3785.4	3863.3	3876.0	3969.4	4089.7	4269.4	4464.7	4637.3
27.5°	3818.0	3829.3	3859.0	3897.2	4006.2	4013.3	4078.4	4227.0	4426.5	4665.6	4941.6
30°	4026.0	4024.6	4054.3	4095.3	4242.5	4255.3	4316.1	4468.9	4654.3	4952.9	5285.5
32.5°	4385.4	4382.6	4386.9	4443.5	4603.4	4633.1	4710.9	4913.3	5145.4	5434.0	5803.4
35°	5122.7	5093.0	5036.4	4991.1	5081.7	5115.6	5285.5	5535.9	5950.6	6518.0	6975.1
37.5°	6341.1	6294.4	6103.4	5844.4	5739.7	5735.5	5854.3	6235.0	6880.3	8018.0	8431.3
40°	7508.6	7510.0	7251.1	6900.1	6573.2	6556.2	6488.3	6959.5	7886.4	9426.1	9620.0
42.5°	8615.2	8608.2	8306.7	7985.5	7594.9	7544.0	7345.9	7708.1	8891.2	10585.1	10623.3
45°	9612.9	9590.2	9266.2	9059.6	8724.2	8622.3	8359.1	8473.7	9832.2	11514.8	11380.4
47.5°	10576.6	10553.9	10149.2	9949.7	9655.3	9570.4	9291.7	9342.6	10732.2	12288.9	11993.1
50°	11571.4	11564.3	10978.5	10784.6	10471.9	10436.5	10268.1	10304.9	11671.9	12932.7	12563.4
52.5°	12750.2	12567.6	11909.6	11538.9	11316.7	11315.3	11127.1	11221.9	12710.6	13507.3	12959.6
55°	14015.3	13784.6	13111.0	12577.6	12195.5	12201.1	11908.2	12061.0	13623.3	14021.0	13338.9
57.5°	14918.2	14870.0	14669.1	14135.6	13346.0	13252.6	12802.6	12922.8	14424.3	14553.1	13612.0
60°	15760.1	15965.3	16099.8	15930.0	15532.3	15262.0	14013.9	13834.2	15130.4	15021.5	13754.9
62.5°	16290.8	16396.9	17023.8	17257.3	17881.4	17902.6	16409.7	14938.0	15731.8	15315.8	13818.6
65°	15706.4	15863.4	16902.1	17814.9	19595.1	19697.0	19067.3	16779.0	16211.6	15417.7	13698.3
67.5°	14076.2	14240.3	15488.4	17360.6	20543.2	20612.6	19958.8	18689.4	16450.7	15396.5	13346.0
68°	13658.7	13834.2	15136.1	17189.4	20608.3	20640.9	19994.2	18847.9	16466.3	15372.4	13231.3
70°	11930.8	12103.5	13422.4	16118.2	20350.8	20372.0	19770.6	19014.9	16385.6	15165.8	12477.1
72.5°	9372.3	9546.4	10586.5	13672.8	19057.4	19242.7	18935.7	18539.4	16044.6	14360.6	10698.3
75°	6641.1	6819.4	7902.0	10701.1	16429.5	16944.6	17557.3	17628.1	14768.1	12332.7	7969.9
77.5°	4682.6	4828.4	5765.2	7999.7	13259.6	13926.2	15202.6	15307.3	12368.1	9410.5	4204.3
80°	3039.7	3164.2	4003.4	5862.8	10023.3	10599.2	12001.6	11568.6	8789.3	5117.1	731.6
82.5°	1835.4	1928.8	2550.0	4055.7	7334.5	7718.0	8289.7	6945.4	4078.4	723.1	256.1
85°	1052.8	1116.5	1575.0	2605.2	5168.0	5494.9	5574.1	3486.8	767.0	199.5	144.3
87.5°	539.2	571.7	844.8	1600.5	3053.8	3193.9	2796.3	1248.1	152.8	89.2	72.2
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°	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5
2.5°	3574.6	3584.5	3591.6	3615.6	3641.1	3653.8	3641.1	3660.9	3668.0	3662.3	3653.8
5°	3583.1	3598.6	3610.0	3658.1	3686.4	3707.6	3693.5	3721.8	3731.7	3720.3	3720.3
7.5°	3607.1	3628.4	3646.8	3710.4	3743.0	3771.3	3762.8	3782.6	3791.1	3776.9	3785.4
10°	3670.8	3692.0	3716.1	3795.3	3816.6	3843.5	3827.9	3843.5	3846.3	3836.4	3843.5
12.5°	3781.2	3795.3	3842.0	3922.7	3925.5	3932.6	3900.1	3870.3	3857.6	3839.2	3851.9
15°	3922.7	3948.2	4011.9	4079.8	4061.4	4045.8	3965.2	3868.9	3808.1	3762.8	3760.0
17.5°	4079.8	4125.1	4204.3	4248.2	4205.7	4135.0	3999.1	3836.4	3689.2	3608.5	3583.1
20°	4241.1	4311.9	4399.6	4408.1	4335.9	4200.1	3993.5	3752.9	3509.5	3359.5	3322.7
22.5°	4437.8	4529.8	4609.0	4566.6	4422.2	4222.7	3941.1	3605.7	3271.7	3043.9	3010.0
25°	4698.2	4788.8	4802.9	4678.4	4454.8	4180.3	3820.8	3386.4	2963.3	2680.2	2653.3
27.5°	5012.3	5060.5	4968.5	4736.4	4415.2	4052.9	3615.6	3082.1	2619.4	2373.1	2332.1
30°	5360.5	5343.5	5090.2	4737.8	4299.1	3836.4	3304.3	2736.8	2347.7	2135.4	2095.8
32.5°	5802.0	5690.2	5213.3	4674.1	4108.1	3544.9	2937.8	2460.9	2160.9	1944.4	1906.2
35°	6679.3	6339.7	5380.3	4573.7	3854.8	3195.3	2616.5	2261.4	2001.0	1751.9	1716.5
37.5°	8013.8	7310.5	5681.7	4463.3	3573.2	2837.3	2370.3	2105.7	1875.0	1609.0	1553.8
40°	9184.1	8383.1	6162.8	4360.0	3285.9	2565.6	2228.8	2030.7	1805.7	1536.8	1480.2
42.5°	10082.7	9242.1	6713.3	4236.9	2985.9	2364.7	2169.4	2020.8	1797.2	1536.8	1484.5
45°	10808.7	9951.1	7202.9	4102.4	2695.8	2206.2	2115.6	2002.4	1780.2	1528.3	1478.8
47.5°	11381.8	10480.3	7589.3	3948.2	2394.4	2098.6	2060.4	1938.7	1736.3	1502.9	1453.3
50°	11878.5	10859.6	7805.8	3767.0	2126.9	2013.7	1982.6	1836.8	1648.6	1427.9	1395.3
52.5°	12225.2	11168.1	7887.9	3692.0	1935.9	1917.5	1876.4	1733.5	1553.8	1338.7	1301.9
55°	12485.6	11326.6	7819.9	3520.8	1744.8	1768.9	1750.5	1654.3	1487.3	1283.5	1246.7
57.5°	12618.6	11378.9	7626.1	2875.5	1563.7	1592.0	1604.7	1610.4	1477.4	1299.1	1265.1
60°	12665.3	11296.9	7202.9	2053.3	1369.8	1426.4	1497.2	1518.4	1433.5	1239.6	1211.3
62.5°	12594.5	11083.2	6373.7	1419.4	1222.7	1323.1	1416.5	1410.9	1320.3	1151.9	1113.7
65°	12318.6	10559.6	4846.8	1144.8	1173.1	1276.4	1379.7	1310.4	1222.7	1067.0	1047.2
67.5°	11650.6	9457.2	2718.4	1057.1	1157.6	1249.5	1316.1	1232.6	1134.9	987.8	979.3
68°	11452.5	9133.2	2320.8	1051.4	1154.7	1241.1	1299.1	1212.8	1117.9	975.0	969.4
70°	10297.8	7463.3	1047.2	1033.0	1137.8	1209.9	1252.4	1157.6	1055.7	931.1	922.7
72.5°	7957.2	4621.8	703.3	982.1	1095.3	1163.2	1190.1	1101.0	1016.1	877.4	866.1
75°	4716.6	1270.8	666.5	894.4	1023.1	1117.9	1146.2	1057.1	956.6	796.7	778.3
77.5°	1160.4	458.5	645.3	795.3	948.1	1042.9	1088.2	1027.4	905.7	717.5	699.1
80°	352.4	365.1	614.2	687.7	853.3	931.1	958.0	958.0	837.7	505.2	532.1
82.5°	232.1	292.9	523.6	516.5	677.8	771.2	720.3	723.1	658.0	225.0	263.2
85°	145.8	239.2	353.8	338.2	431.6	472.6	512.3	526.4	462.7	65.1	4.2
87.5°	75.0	101.9	124.5	133.0	171.2	244.8	328.3	322.6	237.7	58.0	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)