

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: P285832

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285832
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
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: 36274 lumens
Efficiency: N/A
Efficacy: 137.4 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

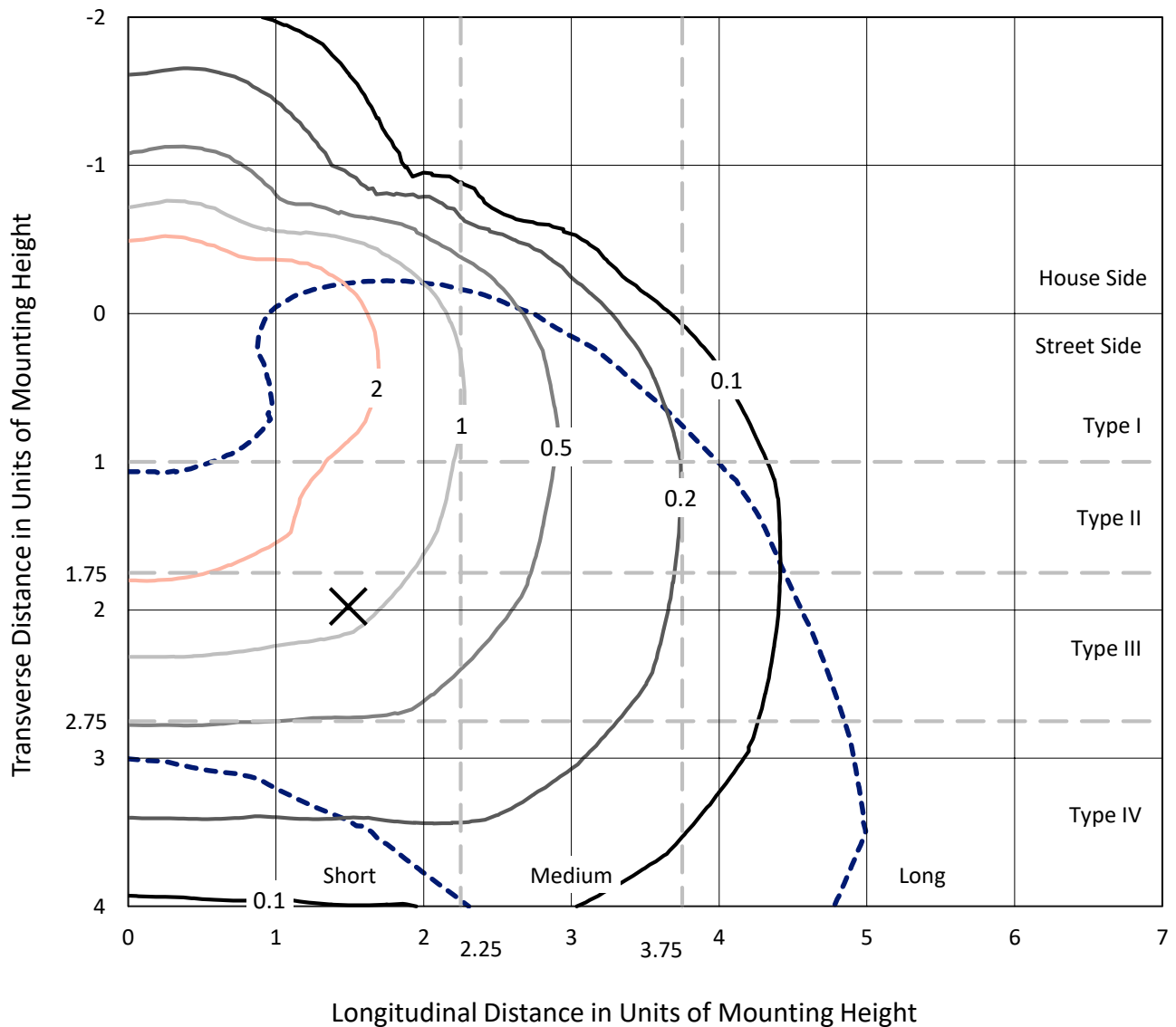


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

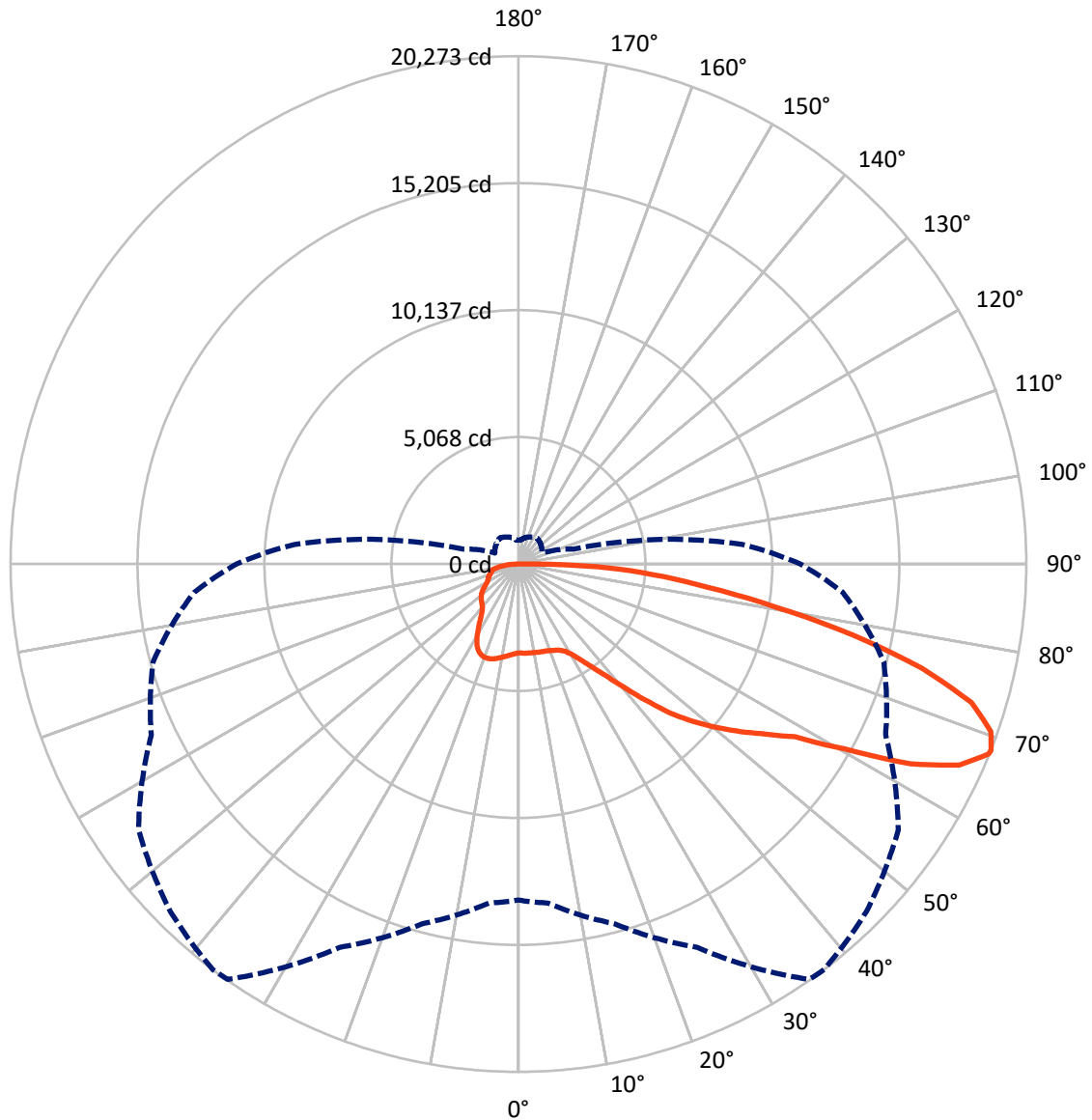


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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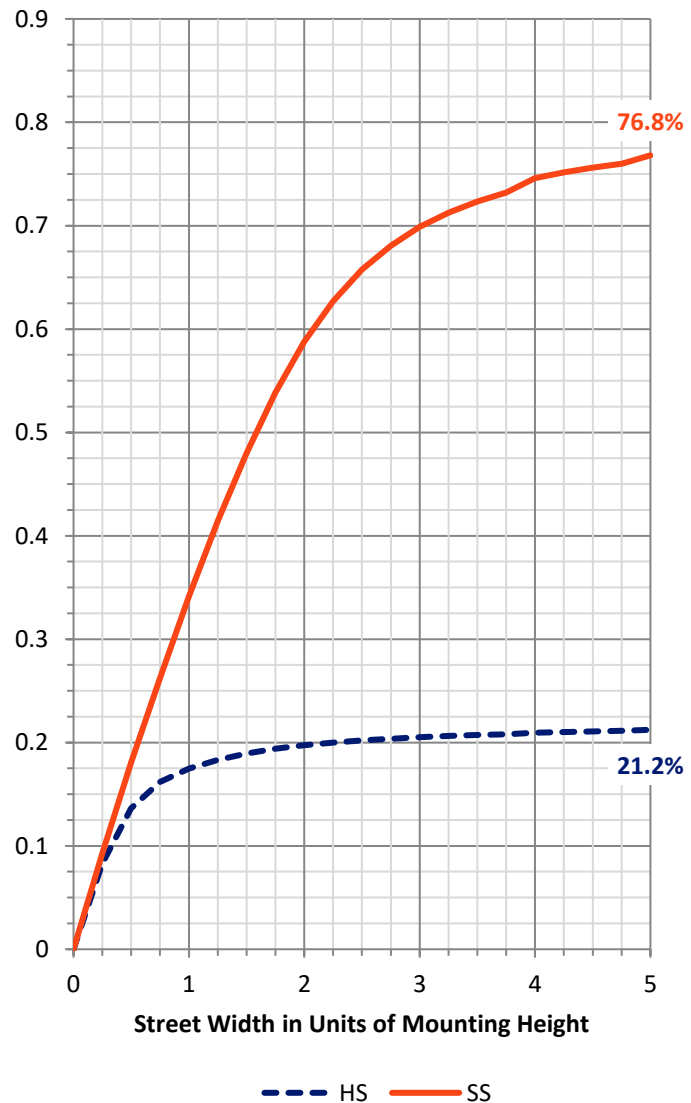
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7832.6	0.0	7832.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	28441.4	0.0	28441.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	36274.0	0.0	36274.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	0.9
10°-20°	1070.7	3.0
20°-30°	1828.8	5.0
30°-40°	2913.5	8.0
40°-50°	5053.1	13.9
50°-60°	7324.7	20.2
60°-70°	9237.3	25.5
70°-80°	6844.7	18.9
80°-90°	1656.7	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°	36274.0	100.0
0°-180°	36274.0	100.0



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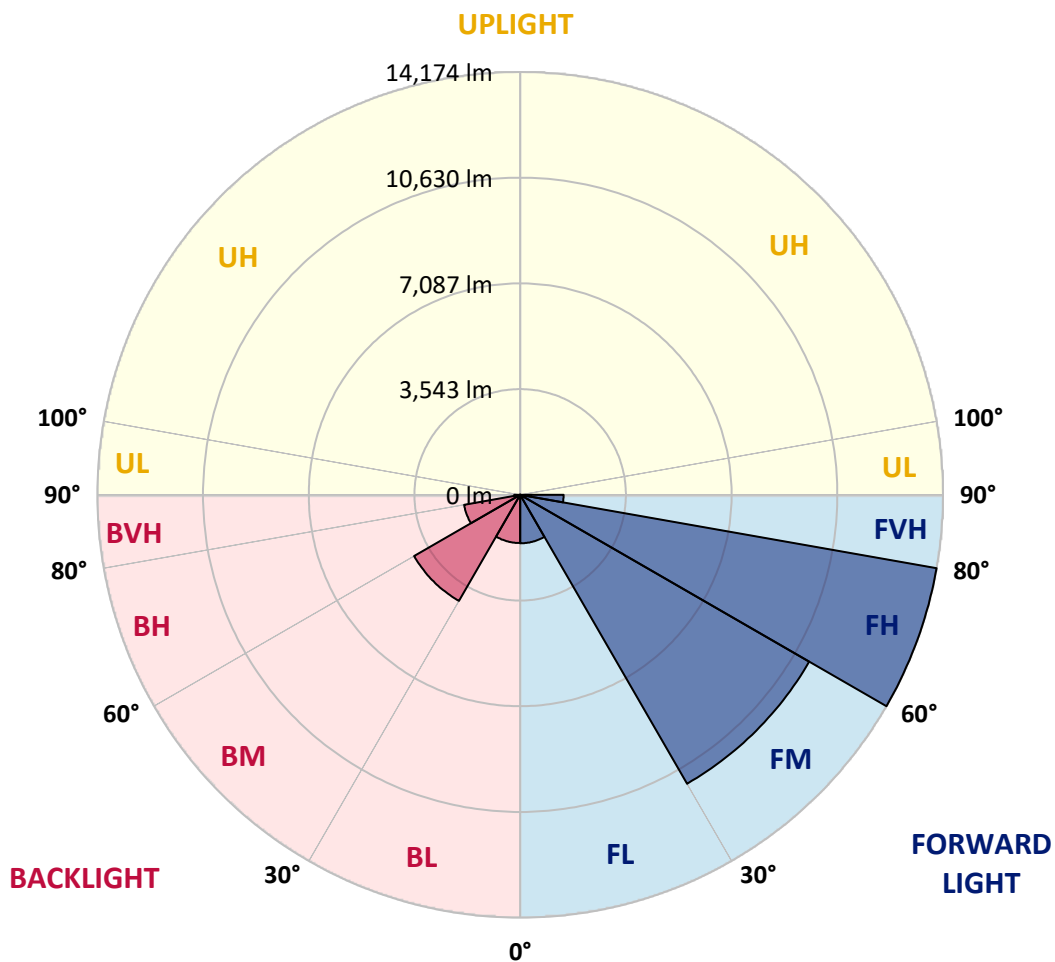
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1626.1	4.5			
FM	(30°-60°)	11185.3	30.8			
FH	(60°-80°)	14174.0	39.1			G5
FVH	(80°-90°)	1455.9	4.0			G5
BL	(0°-30°)	1617.7	4.5	B3/2500		
BM	(30°-60°)	4106.0	11.3	B3/5000		
BH	(60°-80°)	1908.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	200.8	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°	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3
2.5°	3545.6	3555.4	3558.2	3552.6	3558.2	3563.7	3551.2	3549.8	3544.3	3522.0	3524.8
5°	3547.0	3559.5	3560.9	3556.8	3566.5	3572.1	3566.5	3560.9	3555.4	3523.4	3530.4
7.5°	3547.0	3556.8	3559.5	3556.8	3570.7	3580.4	3580.4	3584.6	3584.6	3548.4	3554.0
10°	3534.5	3542.9	3547.0	3554.0	3577.6	3591.5	3599.8	3619.3	3630.4	3605.4	3606.8
12.5°	3477.5	3484.5	3498.4	3538.7	3594.3	3611.0	3634.6	3669.3	3697.1	3697.1	3699.9
15°	3433.1	3440.0	3466.4	3520.6	3605.4	3627.6	3673.5	3731.9	3783.3	3811.1	3833.4
17.5°	3444.2	3452.5	3491.4	3537.3	3622.1	3644.3	3709.7	3794.4	3879.2	3939.0	3983.5
20°	3478.9	3484.5	3529.0	3581.8	3672.1	3687.4	3751.3	3855.6	3973.7	4072.4	4144.7
22.5°	3577.6	3574.8	3611.0	3631.8	3724.9	3738.8	3812.5	3919.5	4072.4	4221.1	4326.8
25°	3659.6	3672.1	3701.3	3718.0	3794.4	3806.9	3898.7	4016.8	4193.3	4385.1	4554.7
27.5°	3750.0	3761.1	3790.3	3827.8	3934.8	3941.8	4005.7	4151.6	4347.6	4582.5	4853.5
30°	3954.3	3952.9	3982.1	4022.4	4166.9	4179.4	4239.2	4389.3	4571.4	4864.7	5191.3
32.5°	4307.3	4304.5	4308.7	4364.3	4521.4	4550.5	4627.0	4825.7	5053.7	5337.2	5700.0
35°	5031.5	5002.3	4946.7	4902.2	4991.1	5024.5	5191.3	5437.3	5844.5	6401.9	6850.8
37.5°	6228.2	6182.3	5994.7	5740.3	5637.4	5633.3	5750.0	6123.9	6757.7	7875.2	8281.0
40°	7374.8	7376.2	7121.9	6777.2	6456.1	6439.4	6372.7	6835.5	7745.9	9258.1	9448.6
42.5°	8461.7	8454.8	8158.7	7843.2	7459.6	7409.6	7215.0	7570.8	8732.8	10396.5	10434.0
45°	9441.6	9419.4	9101.1	8898.2	8568.8	8468.7	8210.2	8322.7	9657.0	11309.6	11177.6
47.5°	10388.1	10365.9	9968.4	9772.4	9483.3	9399.9	9126.1	9176.1	10541.0	12069.9	11779.4
50°	11365.2	11358.3	10782.9	10592.5	10285.3	10250.5	10085.1	10121.3	11463.9	12702.3	12339.6
52.5°	12523.0	12343.7	11697.4	11333.3	11115.1	11113.7	10928.8	11021.9	12484.1	13266.6	12728.7
55°	13765.6	13539.0	12877.5	12353.5	11978.2	11983.7	11696.0	11846.1	13380.6	13771.2	13101.2
57.5°	14652.4	14605.1	14407.7	13883.7	13108.2	13016.4	12574.5	12692.6	14167.3	14293.8	13369.5
60°	15479.4	15680.9	15812.9	15646.1	15255.6	14990.1	13764.2	13587.7	14860.8	14753.8	13509.9
62.5°	16000.6	16104.8	16720.5	16949.9	17562.8	17583.7	16117.3	14671.8	15451.6	15042.9	13572.4
65°	15426.5	15580.8	16601.0	17497.5	19246.0	19346.1	18727.6	16480.1	15922.7	15143.0	13454.3
67.5°	13825.4	13986.6	15212.5	17051.3	20177.2	20245.3	19603.2	18356.5	16157.6	15122.1	13108.2
68°	13415.3	13587.7	14866.4	16883.2	20241.2	20273.1	19637.9	18512.1	16172.9	15098.5	12995.6
70°	11718.3	11887.8	13183.2	15831.0	19988.2	20009.1	19418.3	18676.1	16093.7	14895.6	12254.8
72.5°	9205.3	9376.3	10397.9	13429.2	18717.8	18899.9	18598.3	18209.1	15758.7	14104.7	10507.7
75°	6522.8	6697.9	7761.2	10510.4	16136.8	16642.7	17244.5	17314.0	14505.0	12113.0	7827.9
77.5°	4599.2	4742.4	5662.5	7857.1	13023.4	13678.0	14931.7	15034.6	12147.8	9242.9	4129.4
80°	2985.5	3107.8	3932.0	5758.4	9844.7	10410.4	11787.8	11362.5	8632.7	5025.9	718.6
82.5°	1802.7	1894.4	2504.6	3983.5	7203.9	7580.5	8142.1	6821.6	4005.7	710.2	251.6
85°	1034.1	1096.6	1547.0	2558.8	5075.9	5397.0	5474.8	3424.7	753.3	196.0	141.8
87.5°	529.6	561.5	829.8	1572.0	2999.4	3137.0	2746.4	1225.9	150.1	87.6	70.9
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°	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3	3544.3
2.5°	3510.9	3520.6	3527.6	3551.2	3576.2	3588.7	3576.2	3595.7	3602.6	3597.1	3588.7
5°	3519.2	3534.5	3545.6	3592.9	3620.7	3641.5	3627.6	3655.4	3665.2	3654.1	3654.1
7.5°	3542.9	3563.7	3581.8	3644.3	3676.3	3704.1	3695.8	3715.2	3723.6	3709.7	3718.0
10°	3605.4	3626.3	3649.9	3727.7	3748.6	3775.0	3759.7	3775.0	3777.8	3768.0	3775.0
12.5°	3713.8	3727.7	3773.6	3852.8	3855.6	3862.5	3830.6	3801.4	3788.9	3770.8	3783.3
15°	3852.8	3877.8	3940.4	4007.1	3989.0	3973.7	3894.5	3800.0	3740.2	3695.8	3693.0
17.5°	4007.1	4051.6	4129.4	4172.5	4130.8	4061.3	3927.9	3768.0	3623.5	3544.3	3519.2
20°	4165.5	4235.0	4321.2	4329.5	4258.7	4125.2	3922.3	3686.0	3447.0	3299.6	3263.5
22.5°	4358.7	4449.1	4526.9	4485.2	4343.4	4147.5	3870.9	3541.5	3213.5	2989.7	2956.3
25°	4614.5	4703.4	4717.3	4595.0	4375.4	4105.8	3752.7	3326.0	2910.5	2632.5	2606.1
27.5°	4923.0	4970.3	4880.0	4652.0	4336.5	3980.7	3551.2	3027.2	2572.7	2330.9	2290.6
30°	5265.0	5248.3	4999.5	4653.4	4222.5	3768.0	3245.4	2688.1	2305.8	2097.4	2058.4
32.5°	5698.6	5588.8	5120.4	4590.9	4034.9	3481.7	2885.4	2417.0	2122.4	1909.7	1872.2
35°	6560.3	6226.8	5284.4	4492.2	3786.1	3138.4	2569.9	2221.1	1965.3	1720.7	1686.0
37.5°	7871.0	7180.2	5580.5	4383.8	3509.5	2786.8	2328.1	2068.2	1841.6	1580.3	1526.1
40°	9020.5	8233.8	6053.0	4282.3	3227.4	2519.9	2189.1	1994.5	1773.5	1509.4	1453.8
42.5°	9903.1	9077.5	6593.7	4161.4	2932.7	2322.5	2130.7	1984.8	1765.2	1509.4	1458.0
45°	10616.1	9773.8	7074.6	4029.3	2647.8	2166.9	2077.9	1966.7	1748.5	1501.1	1452.4
47.5°	11179.0	10293.6	7454.1	3877.8	2351.7	2061.2	2023.7	1904.2	1705.4	1476.1	1427.4
50°	11666.8	10666.1	7666.7	3699.9	2089.0	1977.8	1947.3	1804.1	1619.2	1402.4	1370.4
52.5°	12007.4	10969.1	7747.3	3626.3	1901.4	1883.3	1843.0	1702.6	1526.1	1314.8	1278.7
55°	12263.1	11124.8	7680.6	3458.1	1713.8	1737.4	1719.3	1624.8	1460.8	1260.6	1224.5
57.5°	12393.8	11176.2	7490.2	2824.3	1535.8	1563.6	1576.2	1581.7	1451.1	1275.9	1242.6
60°	12439.6	11095.6	7074.6	2016.7	1345.4	1401.0	1470.5	1491.4	1408.0	1217.6	1189.8
62.5°	12370.1	10885.7	6260.1	1394.1	1200.9	1299.6	1391.3	1385.7	1296.8	1131.4	1093.9
65°	12099.1	10371.5	4760.4	1124.4	1152.2	1253.7	1355.2	1287.1	1200.9	1048.0	1028.5
67.5°	11443.1	9288.7	2670.0	1038.3	1136.9	1227.3	1292.6	1210.6	1114.7	970.2	961.8
68°	11248.5	8970.4	2279.4	1032.7	1134.2	1218.9	1275.9	1191.1	1098.0	957.6	952.1
70°	10114.3	7330.4	1028.5	1014.6	1117.5	1188.4	1230.1	1136.9	1036.9	914.6	906.2
72.5°	7815.4	4539.4	690.8	964.6	1075.8	1142.5	1168.9	1081.3	998.0	861.7	850.6
75°	4632.5	1248.1	654.6	878.4	1004.9	1098.0	1125.8	1038.3	939.6	782.5	764.4
77.5°	1139.7	450.3	633.8	781.1	931.2	1024.4	1068.8	1009.1	889.5	704.7	686.6
80°	346.1	358.6	603.2	675.5	838.1	914.6	941.0	941.0	822.8	496.2	522.6
82.5°	227.9	287.7	514.3	507.3	665.8	757.5	707.5	710.2	646.3	221.0	258.5
85°	143.2	234.9	347.5	332.2	423.9	464.2	503.1	517.0	454.5	63.9	4.2
87.5°	73.7	100.1	122.3	130.7	168.2	240.5	322.5	316.9	233.5	57.0	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)