

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: P285796

Luminaire Tested: **USSL-XL-C049-D-U-T3-BZ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C049-D-U-T3-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31625 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 217
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

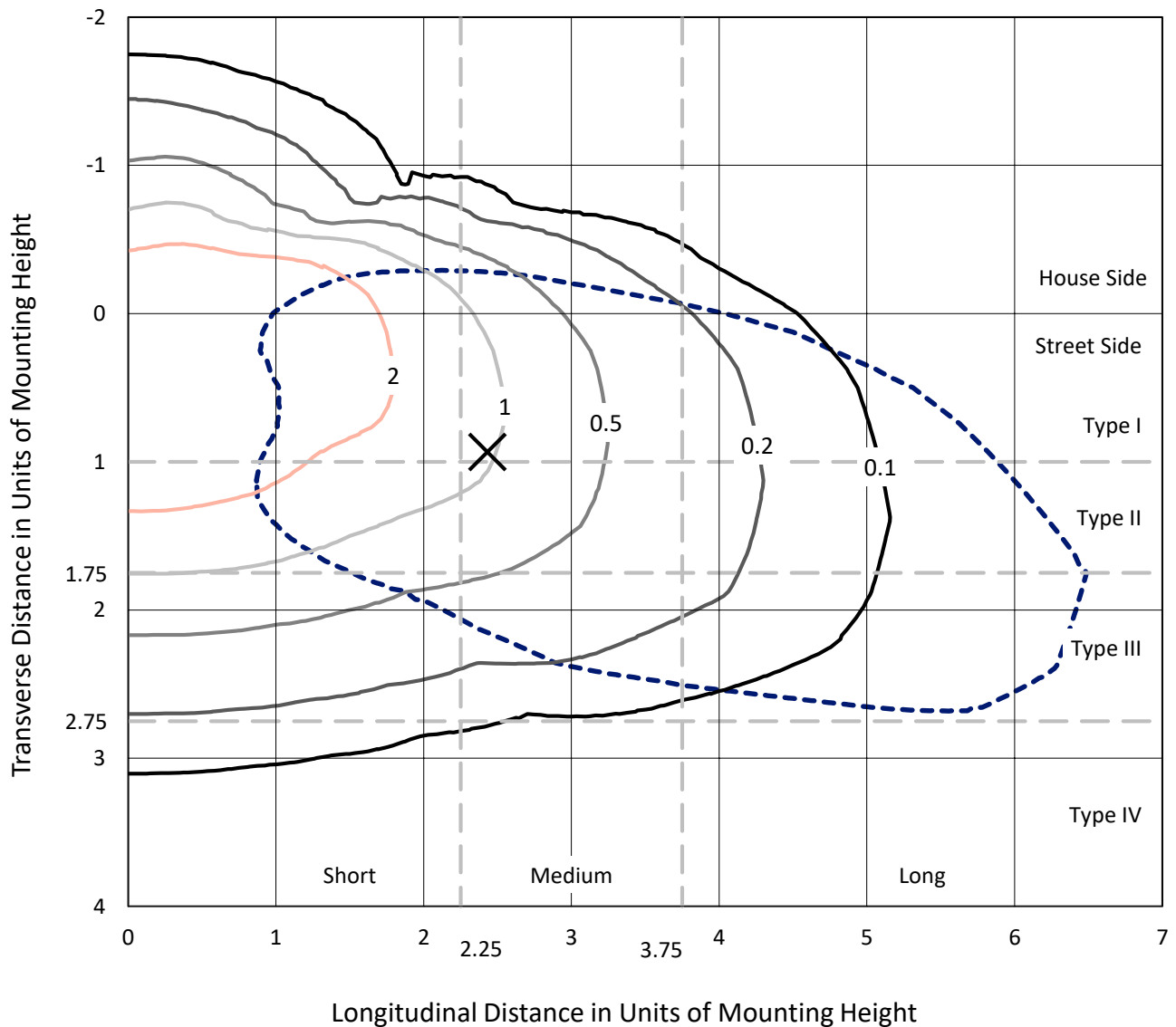


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

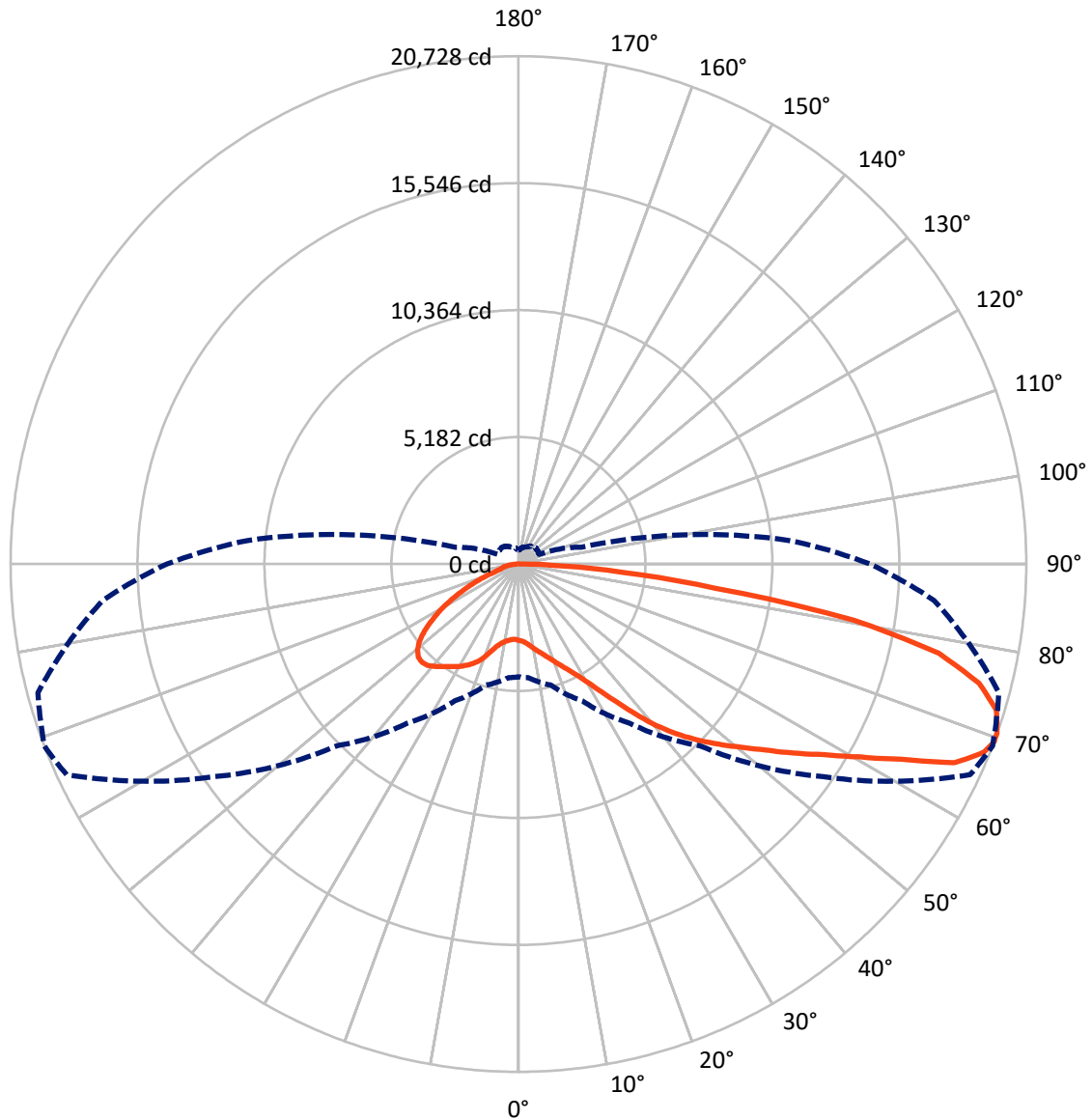


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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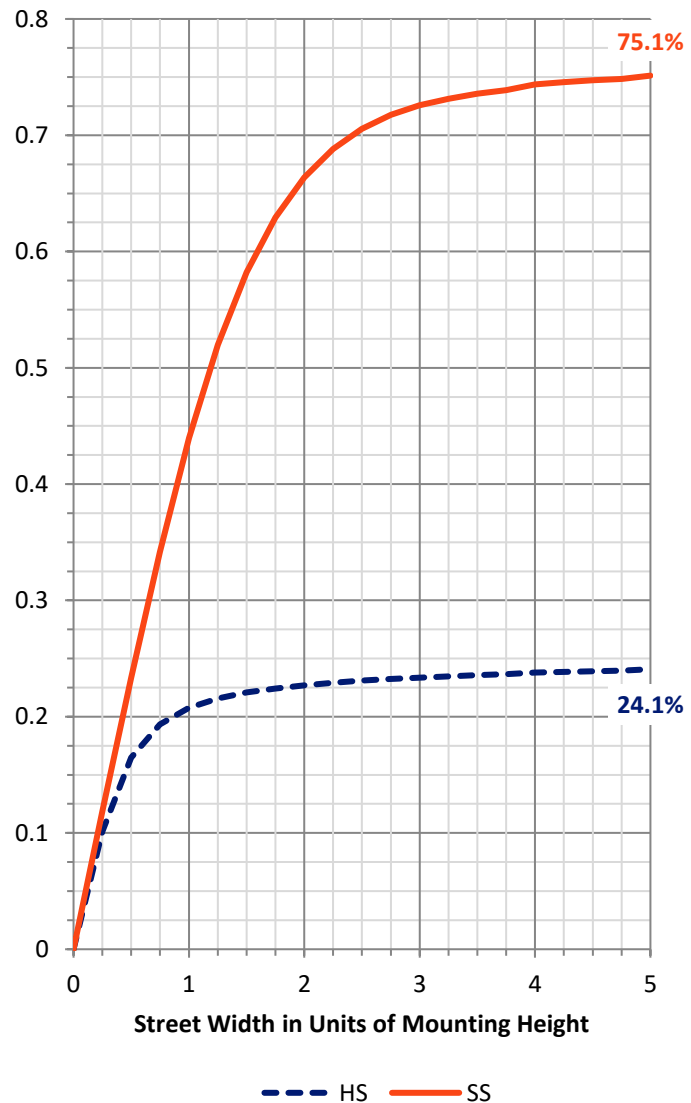
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7775.1	0.0	7775.1
	% Fixture	24.6	0.0	24.6
Street Side	Lumens	23849.9	0.0	23849.9
	% Fixture	75.4	0.0	75.4
Total	Lumens	31625.0	0.0	31625.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.3	1.0
10°-20°	1001.7	3.2
20°-30°	1876.0	5.9
30°-40°	3187.5	10.1
40°-50°	4891.4	15.5
50°-60°	6390.8	20.2
60°-70°	7277.2	23.0
70°-80°	5494.1	17.4
80°-90°	1199.0	3.8
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°	31625.0	100.0
0°-180°	31625.0	100.0



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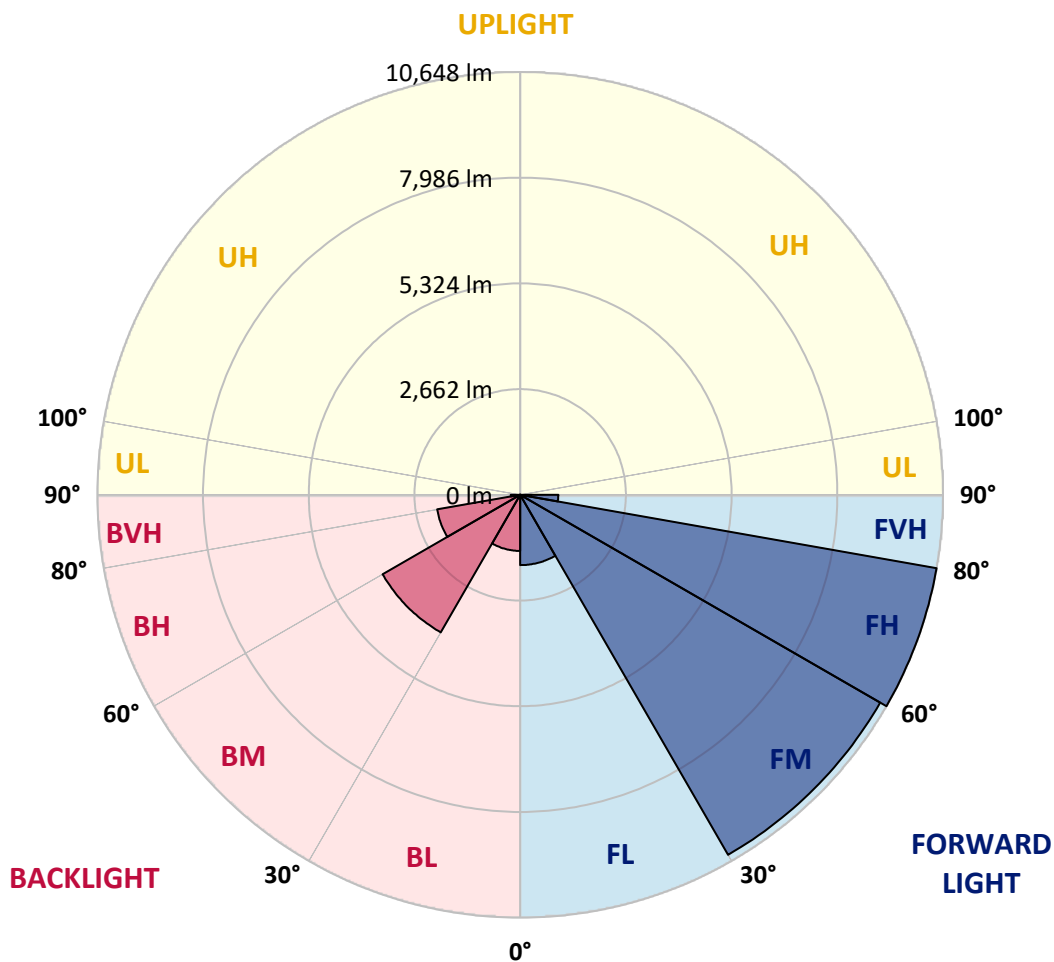
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1771.3	5.6			
FM	(30°-60°)	10469.1	33.1			
FH	(60°-80°)	10648.3	33.7			G4/12000
FVH	(80°-90°)	961.3	3.0			G5
BL	(0°-30°)	1413.7	4.5	B3/2500		
BM	(30°-60°)	4000.6	12.7	B3/5000		
BH	(60°-80°)	2123.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	237.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1
2.5°	3238.8	3248.4	3247.2	3242.4	3240.0	3226.6	3209.7	3187.9	3151.6	3134.6	3112.8
5°	3376.8	3384.0	3385.3	3376.8	3367.1	3346.5	3311.4	3277.5	3237.5	3213.3	3170.9
7.5°	3494.2	3500.3	3511.2	3503.9	3499.1	3482.1	3448.2	3408.3	3356.2	3322.3	3263.0
10°	3588.7	3593.5	3602.0	3614.1	3637.1	3622.6	3582.6	3554.8	3507.5	3455.5	3381.6
12.5°	3656.5	3652.8	3677.0	3698.8	3746.1	3761.8	3733.9	3713.4	3667.4	3614.1	3526.9
15°	3687.9	3686.7	3729.1	3783.6	3853.8	3879.2	3879.2	3856.2	3830.8	3789.6	3697.6
17.5°	3755.7	3760.6	3788.4	3858.7	3933.7	3993.0	4050.0	4052.4	4033.0	4005.2	3909.5
20°	3859.9	3868.3	3882.9	3938.6	4022.1	4126.2	4232.8	4271.5	4261.8	4250.9	4175.9
22.5°	3990.6	3994.3	3990.6	4039.1	4150.4	4290.9	4444.7	4508.8	4514.9	4516.1	4478.6
25°	4200.1	4184.3	4144.4	4188.0	4317.5	4479.8	4667.4	4774.0	4801.8	4827.3	4916.8
27.5°	4582.7	4546.4	4471.3	4456.8	4530.6	4708.6	4941.1	5119.0	5159.0	5229.2	5467.7
30°	5200.2	5151.7	5081.5	4867.2	4838.1	4990.7	5286.1	5540.4	5620.3	5833.4	6108.2
32.5°	5826.1	5794.6	5715.9	5510.1	5292.2	5349.1	5639.7	6036.8	6208.7	6639.7	6894.0
35°	6363.7	6348.0	6303.2	6202.7	5949.6	5789.8	6042.8	6594.9	6915.8	7589.0	7817.8
37.5°	6881.9	6874.6	6877.0	6740.2	6633.7	6403.6	6505.3	7246.3	7773.0	8583.0	8736.8
40°	7334.7	7338.3	7375.9	7312.9	7294.8	7151.9	7050.2	7941.3	8662.9	9566.1	9602.4
42.5°	7706.4	7710.0	7884.4	7790.0	7902.6	7871.1	7724.6	8590.3	9481.4	10361.6	10356.7
45°	7951.0	7957.0	8129.0	8205.2	8443.8	8547.9	8438.9	9256.2	10245.3	11097.7	11002.1
47.5°	8132.6	8127.7	8225.8	8533.3	8940.2	9146.0	9185.9	10012.9	10986.3	11779.4	11613.5
50°	8230.7	8241.6	8429.2	8839.7	9440.2	9727.1	9946.3	10906.4	11746.7	12436.8	12203.1
52.5°	8292.4	8346.9	8621.7	9109.7	9891.8	10341.0	10615.8	11896.8	12603.9	13119.7	12827.9
55°	8336.0	8435.3	8706.5	9251.3	10172.7	10838.6	11244.2	12918.7	13616.1	13893.3	13513.2
57.5°	8024.8	8120.5	8561.2	9273.1	10394.3	11247.8	11913.8	13997.5	14671.8	14847.4	14191.2
60°	7493.3	7550.2	8118.1	9102.4	10345.8	11619.5	12792.8	15277.2	15983.1	15996.4	14905.5
62.5°	6946.1	6969.1	7543.0	8656.8	10127.9	11741.8	13671.8	16983.2	17537.7	17368.2	15664.7
65°	6219.6	6245.0	6837.1	7924.3	9601.2	11606.2	14390.9	18781.1	19557.2	19104.4	16417.7
67.5°	5270.4	5326.1	5875.8	6883.1	8664.1	11082.0	14906.7	20019.7	20495.5	20105.7	16938.4
69°	4605.7	4657.7	5119.0	6162.7	7934.0	10491.1	15123.4	20346.6	20728.0	20303.0	17025.5
70°	4127.4	4167.4	4599.6	5623.9	7362.6	9986.2	15170.7	20435.0	20715.9	20310.3	16978.3
72.5°	2942.1	2976.0	3210.9	3934.9	5580.3	8365.1	14939.4	20195.3	20401.1	19816.3	16359.6
75°	2175.7	2202.4	2342.8	2599.5	3248.4	5919.3	13498.6	19198.8	19418.0	18736.3	15070.2
77.5°	1578.8	1600.6	1736.2	1986.8	2285.9	2787.1	9357.9	17327.0	17542.5	16995.3	12973.2
80°	1077.6	1100.6	1222.9	1434.7	1670.8	1854.9	4594.8	12681.4	13869.1	13602.8	9245.3
82.5°	202.2	248.2	525.5	744.6	939.5	1004.9	1737.4	6972.7	8102.3	8264.6	4821.2
85°	134.4	145.3	320.8	312.4	306.3	449.2	680.4	3342.9	4229.1	4381.7	2081.3
87.5°	66.6	70.2	95.6	132.0	168.3	202.2	224.0	881.4	1273.7	1365.7	388.7
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°	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1
2.5°	3104.4	3098.3	3080.1	3072.9	3068.0	3065.6	3036.6	3031.7	3017.2	3007.5	2999.0
5°	3150.4	3140.7	3098.3	3082.6	3058.3	3037.8	2989.3	2968.8	2954.2	2934.9	2926.4
7.5°	3231.5	3214.5	3150.4	3121.3	3078.9	3043.8	2977.2	2945.7	2917.9	2891.3	2886.4
10°	3341.7	3310.2	3221.8	3177.0	3115.3	3074.1	2996.6	2936.1	2894.9	2864.6	2863.4
12.5°	3485.7	3438.5	3332.0	3272.7	3196.4	3133.4	3045.0	2954.2	2886.4	2838.0	2835.6
15°	3657.7	3608.0	3500.3	3424.0	3334.4	3249.6	3108.0	2973.6	2861.0	2783.5	2773.8
17.5°	3868.3	3821.1	3723.0	3661.3	3535.4	3368.3	3167.3	2966.3	2805.3	2698.8	2683.0
20°	4134.7	4148.0	4056.0	3921.6	3712.2	3466.4	3196.4	2928.8	2695.1	2546.2	2524.4
22.5°	4506.4	4551.2	4397.4	4150.4	3846.5	3518.4	3184.3	2829.5	2543.8	2363.4	2345.2
25°	4961.6	4948.3	4671.1	4318.7	3915.6	3517.2	3116.5	2687.9	2351.3	2147.9	2134.5
27.5°	5437.5	5357.6	4929.0	4436.2	3927.7	3450.6	2983.3	2474.8	2129.7	1960.2	1920.2
30°	6044.1	5821.3	5192.9	4535.5	3887.7	3323.5	2742.3	2270.2	2002.6	1818.5	1791.9
32.5°	6745.1	6374.6	5489.5	4565.7	3799.3	3128.6	2480.8	2175.7	1919.0	1709.6	1679.3
35°	7559.9	7082.9	5833.4	4576.6	3631.0	2839.2	2339.2	2121.2	1863.3	1626.0	1586.1
37.5°	8412.3	7833.5	6257.1	4564.5	3434.9	2522.0	2239.9	2042.5	1800.4	1606.7	1583.7
40°	9182.3	8556.4	6735.4	4530.6	3166.1	2316.2	2132.1	1933.6	1745.9	1599.4	1581.2
42.5°	9888.2	9185.9	7193.1	4473.7	2830.7	2169.7	2013.5	1852.4	1676.9	1497.7	1461.4
45°	10499.6	9767.1	7532.1	4338.1	2455.4	2019.5	1870.6	1739.8	1574.0	1396.0	1359.7
47.5°	11023.9	10246.6	7798.4	4105.6	2152.7	1879.1	1708.4	1605.5	1460.2	1290.7	1254.3
50°	11559.0	10636.4	7954.6	3721.8	1899.7	1718.1	1547.3	1449.3	1324.6	1201.1	1179.3
52.5°	12132.9	11269.6	8182.2	3089.8	1666.0	1548.5	1376.6	1270.1	1178.1	1126.0	1105.4
55°	12712.9	11831.4	8265.8	2336.7	1461.4	1415.4	1215.6	1077.6	1012.2	979.5	974.7
57.5°	13289.2	12310.9	7980.0	1663.6	1325.8	1261.6	1043.7	912.9	835.4	858.4	893.5
60°	13878.8	12660.8	7250.0	1301.6	1219.2	1077.6	898.4	801.5	767.6	742.2	743.4
62.5°	14423.6	12824.2	6007.7	1105.4	1116.3	963.8	847.5	753.1	719.2	675.6	662.3
65°	14785.7	12536.1	4689.2	1023.1	1023.1	934.7	845.1	754.3	708.3	632.0	618.7
67.5°	14681.5	11785.4	3470.0	949.2	963.8	946.8	865.7	751.9	695.0	622.3	617.5
69°	14346.1	11066.2	2664.9	927.4	954.1	957.7	889.9	764.0	709.5	599.3	572.7
70°	14009.6	10511.7	2206.0	909.3	951.6	965.0	909.3	778.5	698.6	563.0	546.0
72.5°	12865.4	8884.5	1111.5	839.0	948.0	973.4	951.6	833.0	692.5	542.4	527.9
75°	11310.8	6833.5	713.1	779.7	917.7	983.1	985.5	883.8	695.0	530.3	512.1
77.5°	9062.4	3961.6	592.1	713.1	860.8	963.8	996.4	922.6	724.0	550.9	530.3
80°	4818.8	1566.7	475.8	609.0	788.2	905.6	966.2	909.3	716.8	460.1	446.8
82.5°	2133.3	486.7	348.7	478.2	619.9	791.8	820.9	800.3	627.2	278.5	318.4
85°	599.3	201.0	232.5	343.9	428.6	560.6	642.9	645.3	486.7	121.1	27.8
87.5°	61.7	46.0	67.8	132.0	247.0	388.7	469.8	450.4	325.7	102.9	2.4
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)