

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: P285826

Luminaire Tested: **USSL-XL-C049-D-U-T4-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285826
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-C049-D-U-T4-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30471 lumens
Efficiency: N/A
Efficacy: 140.4 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): 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

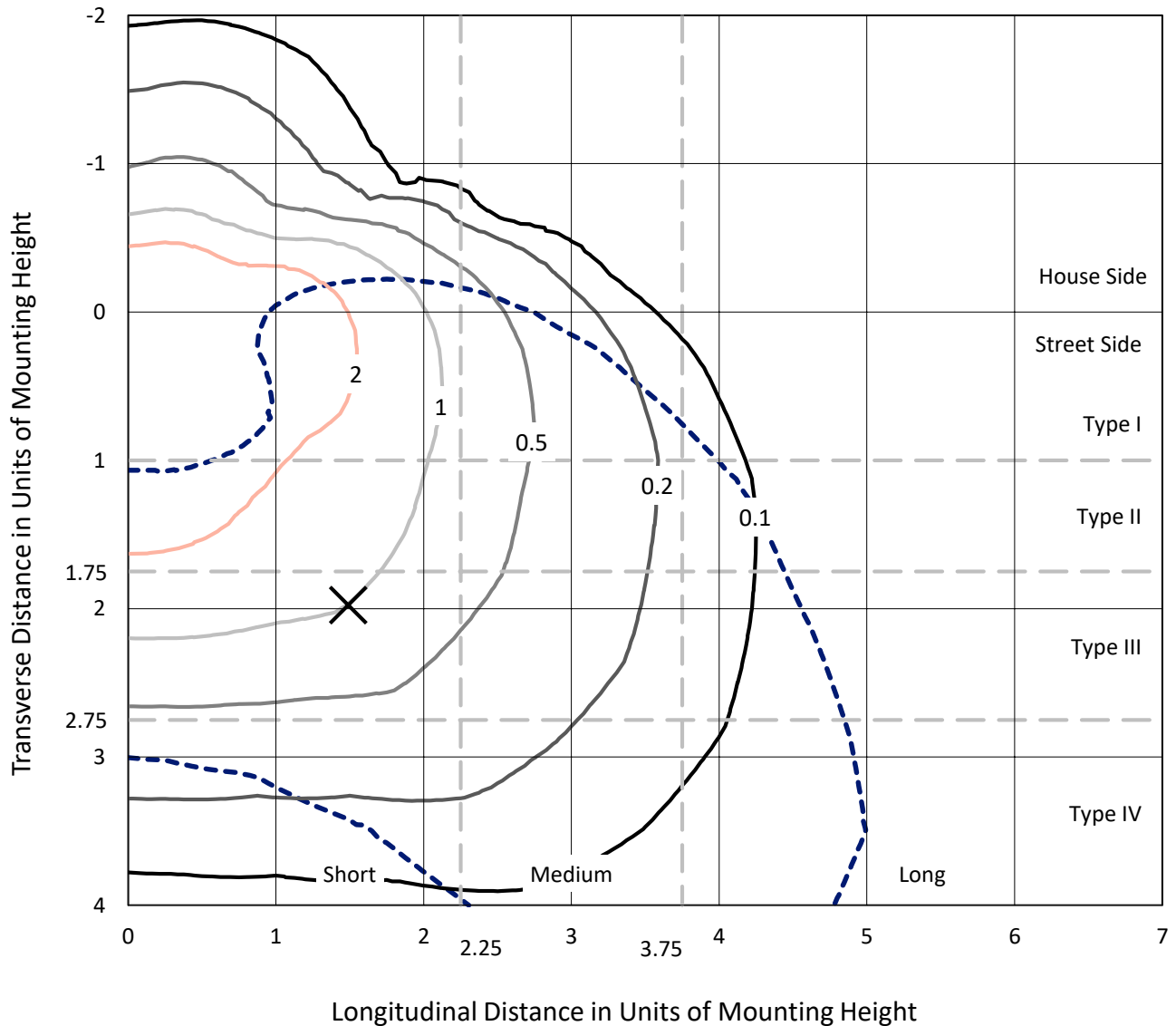


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

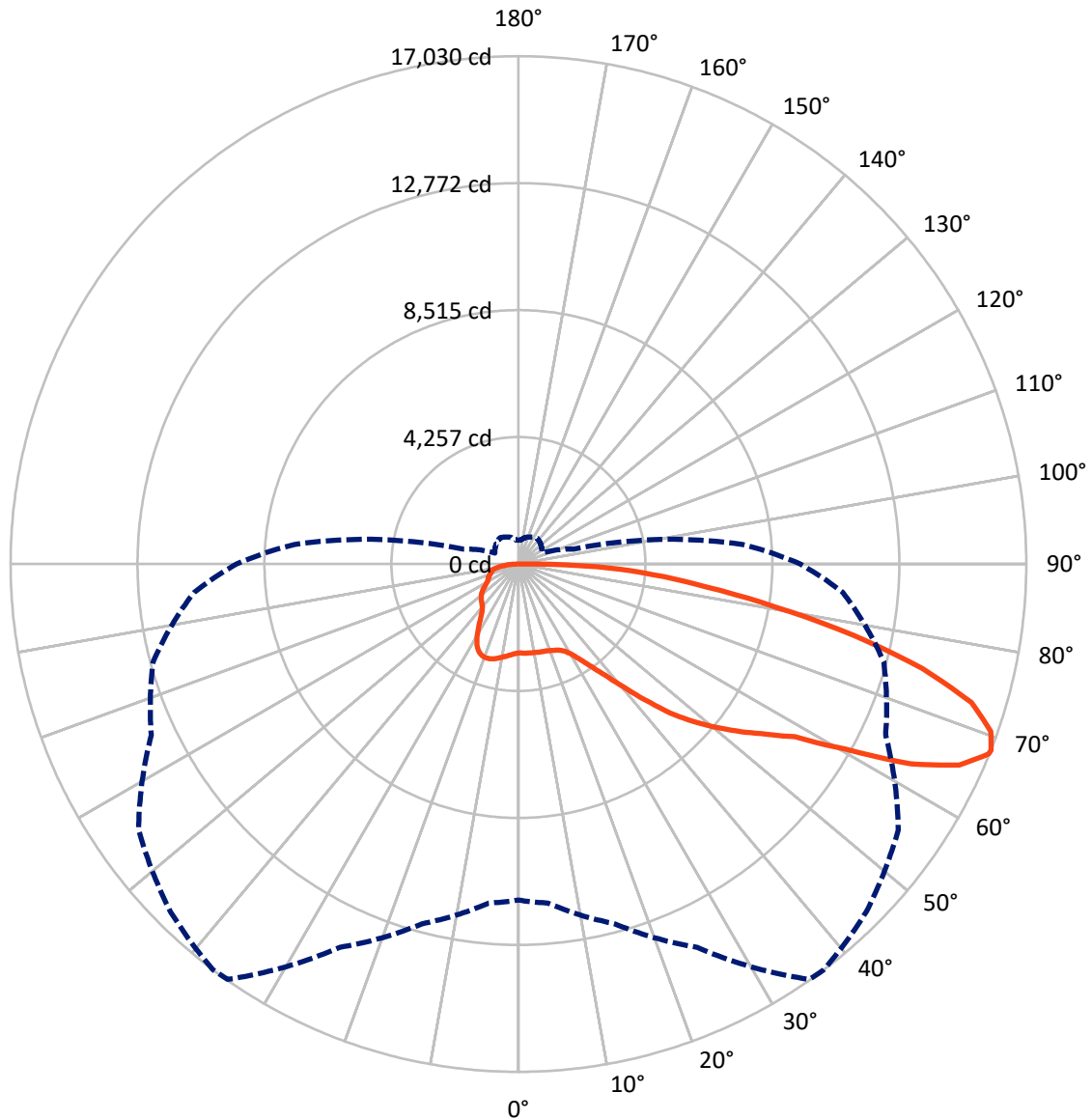


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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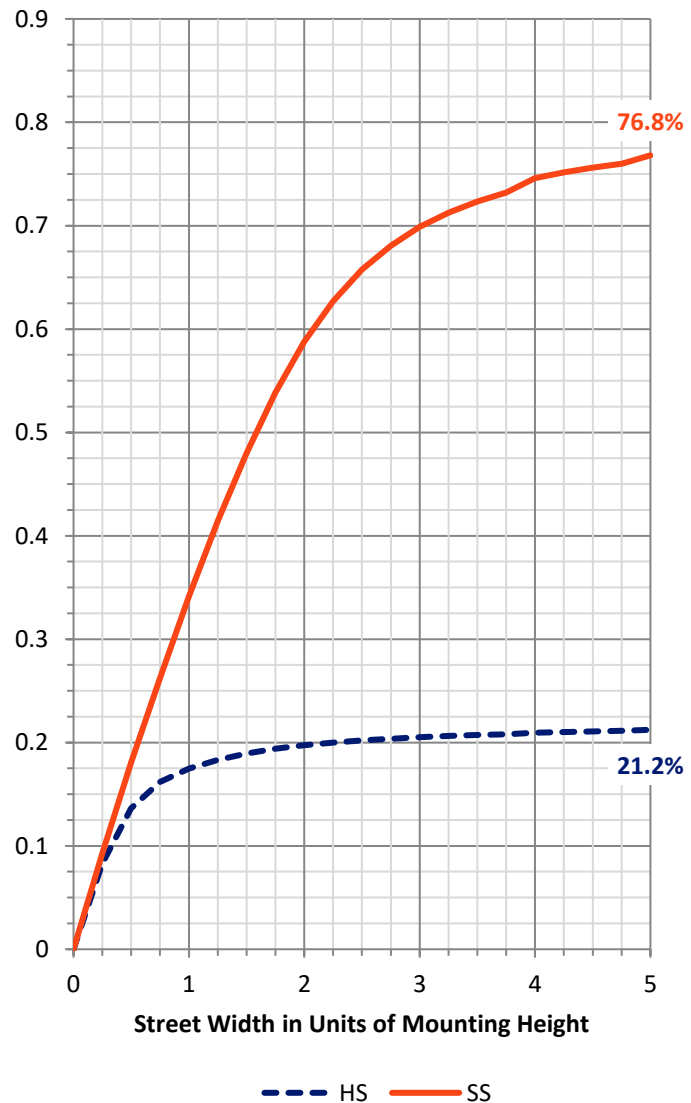
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6579.6	0.0	6579.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23891.4	0.0	23891.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	30471.0	0.0	30471.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.4	0.9
10°-20°	899.4	3.0
20°-30°	1536.2	5.0
30°-40°	2447.4	8.0
40°-50°	4244.7	13.9
50°-60°	6152.9	20.2
60°-70°	7759.5	25.5
70°-80°	5749.8	18.9
80°-90°	1391.7	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°	30471.0	100.0
0°-180°	30471.0	100.0



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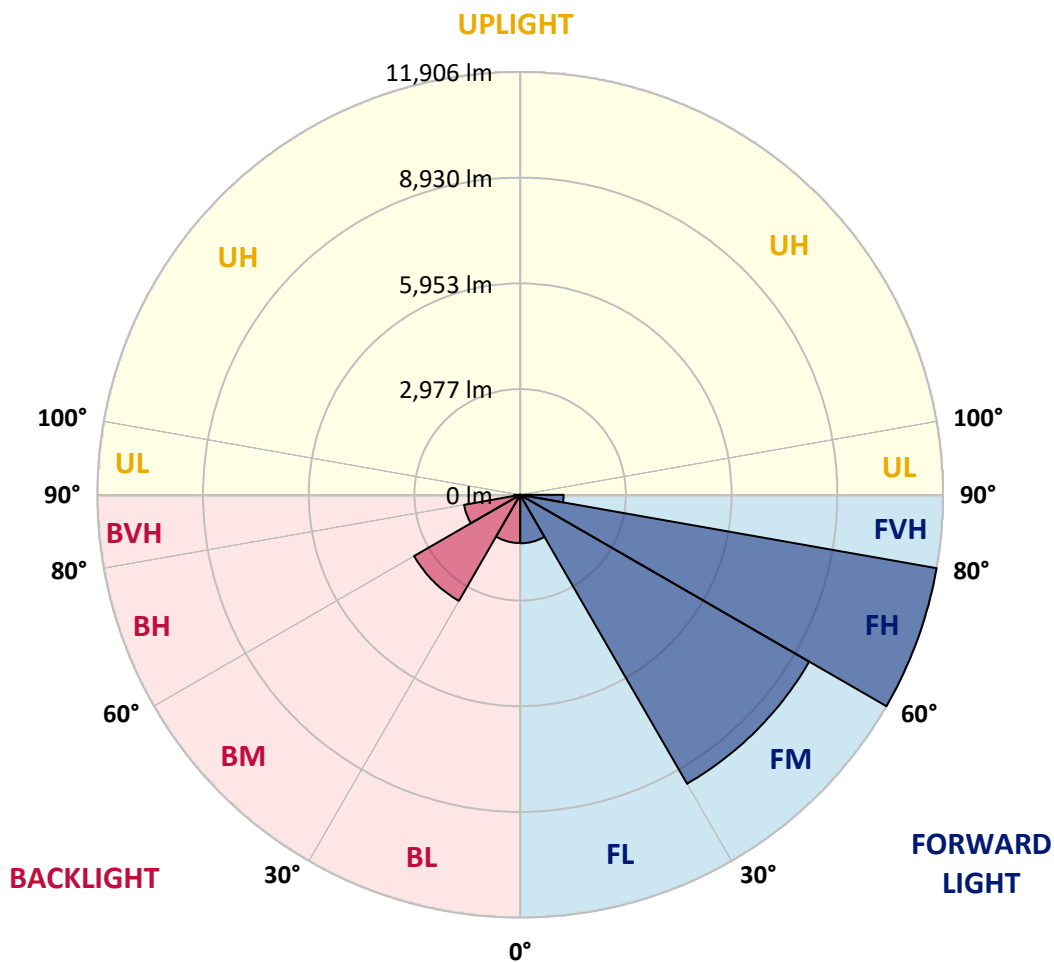
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1366.0	4.5			
FM	(30°-60°)	9395.9	30.8			
FH	(60°-80°)	11906.5	39.1			G4/12000
FVH	(80°-90°)	1223.0	4.0			G5
BL	(0°-30°)	1358.9	4.5	B3/2500		
BM	(30°-60°)	3449.2	11.3	B3/5000		
BH	(60°-80°)	1602.8	5.3	B3/2500		G3/2500
BVH	(80°-90°)	168.7	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°	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3
2.5°	2978.4	2986.6	2988.9	2984.3	2988.9	2993.6	2983.1	2981.9	2977.3	2958.6	2960.9
5°	2979.6	2990.1	2991.3	2987.8	2995.9	3000.6	2995.9	2991.3	2986.6	2959.7	2965.6
7.5°	2979.6	2987.8	2990.1	2987.8	2999.4	3007.6	3007.6	3011.1	3011.1	2980.8	2985.4
10°	2969.1	2976.1	2979.6	2985.4	3005.3	3017.0	3024.0	3040.3	3049.6	3028.6	3029.8
12.5°	2921.2	2927.1	2938.7	2972.6	3019.3	3033.3	3053.1	3082.3	3105.7	3105.7	3108.0
15°	2883.9	2889.7	2911.9	2957.4	3028.6	3047.3	3085.8	3134.9	3178.1	3201.4	3220.1
17.5°	2893.2	2900.2	2932.9	2971.4	3042.6	3061.3	3116.2	3187.4	3258.6	3308.8	3346.2
20°	2922.4	2927.1	2964.4	3008.8	3084.7	3097.5	3151.2	3238.8	3338.0	3420.9	3481.6
22.5°	3005.3	3002.9	3033.3	3050.8	3129.0	3140.7	3202.6	3292.5	3420.9	3545.9	3634.6
25°	3074.2	3084.7	3109.2	3123.2	3187.4	3197.9	3275.0	3374.2	3522.5	3683.6	3826.1
27.5°	3150.1	3159.4	3183.9	3215.4	3305.3	3311.2	3364.9	3487.5	3652.1	3849.4	4077.1
30°	3321.7	3320.5	3345.0	3378.9	3500.3	3510.8	3561.0	3687.1	3840.1	4086.4	4360.8
32.5°	3618.2	3615.9	3619.4	3666.1	3798.0	3822.6	3886.8	4053.7	4245.2	4483.4	4788.1
35°	4226.5	4202.0	4155.3	4118.0	4192.7	4220.7	4360.8	4567.5	4909.6	5377.7	5754.9
37.5°	5231.8	5193.3	5035.6	4822.0	4735.6	4732.1	4830.2	5144.2	5676.6	6615.3	6956.3
40°	6195.0	6196.2	5982.5	5693.0	5423.3	5409.3	5353.2	5742.0	6506.8	7777.1	7937.0
42.5°	7108.1	7102.2	6853.5	6588.5	6266.2	6224.2	6060.8	6359.7	7335.7	8733.3	8764.8
45°	7931.2	7912.5	7645.1	7474.7	7198.0	7113.9	6896.7	6991.3	8112.1	9500.4	9389.4
47.5°	8726.3	8707.6	8373.7	8209.1	7966.2	7896.1	7666.1	7708.2	8854.7	10139.0	9895.0
50°	9547.1	9541.2	9057.9	8897.9	8639.9	8610.7	8471.8	8502.1	9630.0	10670.2	10365.5
52.5°	10519.6	10369.0	9826.1	9520.2	9336.9	9335.7	9180.5	9258.7	10486.9	11144.3	10692.4
55°	11563.4	11373.1	10817.4	10377.2	10062.0	10066.6	9824.9	9951.0	11240.0	11568.1	11005.3
57.5°	12308.3	12268.6	12102.8	11662.7	11011.2	10934.1	10562.8	10662.1	11900.8	12007.1	11230.7
60°	13003.0	13172.3	13283.2	13143.1	12815.0	12592.0	11562.3	11414.0	12483.5	12393.6	11348.6
62.5°	13440.8	13528.4	14045.6	14238.3	14753.2	14770.7	13538.9	12324.7	12979.7	12636.4	11401.1
65°	12958.6	13088.2	13945.2	14698.3	16167.1	16251.1	15731.6	13843.7	13375.5	12720.5	11301.9
67.5°	11613.6	11749.1	12778.8	14323.5	16949.3	17006.5	16467.1	15419.8	13572.8	12703.0	11011.2
68°	11269.2	11414.0	12488.1	14182.2	17003.0	17029.9	16496.3	15550.6	13585.6	12683.1	10916.6
70°	9843.6	9986.1	11074.2	13298.4	16790.6	16808.1	16311.9	15688.4	13519.1	12512.6	10294.3
72.5°	7732.7	7876.3	8734.4	11280.9	15723.4	15876.4	15623.0	15296.1	13237.7	11848.3	8826.7
75°	5479.3	5626.4	6519.6	8829.0	13555.3	13980.3	14485.8	14544.2	12184.6	10175.2	6575.6
77.5°	3863.4	3983.7	4756.6	6600.2	10940.0	11489.9	12543.0	12629.4	10204.4	7764.2	3468.8
80°	2507.9	2610.6	3303.0	4837.2	8269.8	8745.0	9902.0	9544.7	7251.7	4221.9	603.6
82.5°	1514.3	1591.4	2103.9	3346.2	6051.4	6367.8	6839.5	5730.3	3364.9	596.6	211.3
85°	868.7	921.2	1299.5	2149.5	4263.9	4533.6	4599.0	2876.8	632.8	164.6	119.1
87.5°	444.8	471.7	697.0	1320.5	2519.6	2635.2	2307.1	1029.8	126.1	73.6	59.5
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°	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3	2977.3
2.5°	2949.2	2957.4	2963.2	2983.1	3004.1	3014.6	3004.1	3020.5	3026.3	3021.6	3014.6
5°	2956.2	2969.1	2978.4	3018.1	3041.5	3059.0	3047.3	3070.7	3078.8	3069.5	3069.5
7.5°	2976.1	2993.6	3008.8	3061.3	3088.2	3111.5	3104.5	3120.9	3127.9	3116.2	3123.2
10°	3028.6	3046.1	3066.0	3131.4	3148.9	3171.1	3158.2	3171.1	3173.4	3165.2	3171.1
12.5°	3119.7	3131.4	3169.9	3236.5	3238.8	3244.6	3217.8	3193.3	3182.7	3167.6	3178.1
15°	3236.5	3257.5	3310.0	3366.0	3350.9	3338.0	3271.5	3192.1	3141.9	3104.5	3102.2
17.5°	3366.0	3403.4	3468.8	3505.0	3470.0	3411.6	3299.5	3165.2	3043.8	2977.3	2956.2
20°	3499.2	3557.5	3629.9	3636.9	3577.4	3465.3	3294.8	3096.3	2895.5	2771.8	2741.4
22.5°	3661.4	3737.3	3802.7	3767.7	3648.6	3484.0	3251.6	2974.9	2699.4	2511.4	2483.4
25°	3876.3	3951.0	3962.7	3859.9	3675.5	3448.9	3152.4	2793.9	2444.9	2211.3	2189.2
27.5°	4135.5	4175.2	4099.3	3907.8	3642.8	3343.9	2983.1	2542.9	2161.1	1958.0	1924.1
30°	4422.7	4408.7	4199.7	3909.0	3547.0	3165.2	2726.2	2258.0	1937.0	1761.8	1729.1
32.5°	4787.0	4694.7	4301.3	3856.4	3389.4	2924.7	2423.8	2030.4	1782.9	1604.2	1572.7
35°	5510.8	5230.6	4439.0	3773.5	3180.4	2636.3	2158.8	1865.7	1650.9	1445.4	1416.2
37.5°	6611.8	6031.6	4687.7	3682.5	2948.1	2340.9	1955.6	1737.3	1547.0	1327.5	1282.0
40°	7577.4	6916.6	5084.7	3597.2	2711.1	2116.8	1838.9	1675.4	1489.8	1268.0	1221.3
42.5°	8318.8	7625.3	5538.9	3495.6	2463.5	1951.0	1789.9	1667.3	1482.8	1268.0	1224.8
45°	8917.8	8210.2	5942.8	3384.7	2224.2	1820.2	1745.5	1652.1	1468.8	1261.0	1220.1
47.5°	9390.6	8646.9	6261.6	3257.5	1975.5	1731.5	1700.0	1599.5	1432.6	1239.9	1199.1
50°	9800.4	8959.8	6440.2	3108.0	1754.8	1661.4	1635.7	1515.5	1360.2	1178.1	1151.2
52.5°	10086.5	9214.3	6507.9	3046.1	1597.2	1582.0	1548.2	1430.3	1282.0	1104.5	1074.1
55°	10301.3	9345.1	6451.9	2904.9	1439.6	1459.4	1444.3	1364.9	1227.1	1059.0	1028.6
57.5°	10411.1	9388.3	6291.9	2372.5	1290.1	1313.5	1324.0	1328.7	1218.9	1071.8	1043.8
60°	10449.6	9320.6	5942.8	1694.1	1130.2	1176.9	1235.3	1252.8	1182.7	1022.8	999.4
62.5°	10391.2	9144.3	5258.7	1171.1	1008.8	1091.7	1168.7	1164.0	1089.3	950.4	918.9
65°	10163.5	8712.3	3998.9	944.5	967.9	1053.1	1138.4	1081.2	1008.8	880.3	864.0
67.5°	9612.4	7802.7	2242.9	872.2	955.1	1030.9	1085.8	1016.9	936.4	815.0	807.9
68°	9449.0	7535.4	1914.8	867.5	952.7	1023.9	1071.8	1000.6	922.4	804.4	799.8
70°	8496.3	6157.7	864.0	852.3	938.7	998.3	1033.3	955.1	871.0	768.2	761.2
72.5°	6565.1	3813.2	580.3	810.3	903.7	959.7	981.9	908.4	838.3	723.9	714.5
75°	3891.4	1048.5	549.9	737.9	844.1	922.4	945.7	872.2	789.3	657.3	642.2
77.5°	957.4	378.3	532.4	656.2	782.3	860.5	897.8	847.6	747.2	591.9	576.8
80°	290.7	301.2	506.7	567.4	704.0	768.2	790.4	790.4	691.2	416.8	439.0
82.5°	191.5	241.7	432.0	426.2	559.3	636.3	594.3	596.6	542.9	185.6	217.2
85°	120.3	197.3	291.9	279.0	356.1	390.0	422.7	434.3	381.8	53.7	3.5
87.5°	61.9	84.1	102.7	109.7	141.3	202.0	270.9	266.2	196.1	47.9	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)