

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: P380994

Luminaire Tested: **USSL-XL-PA4A-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA4A-730-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30531 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 245
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

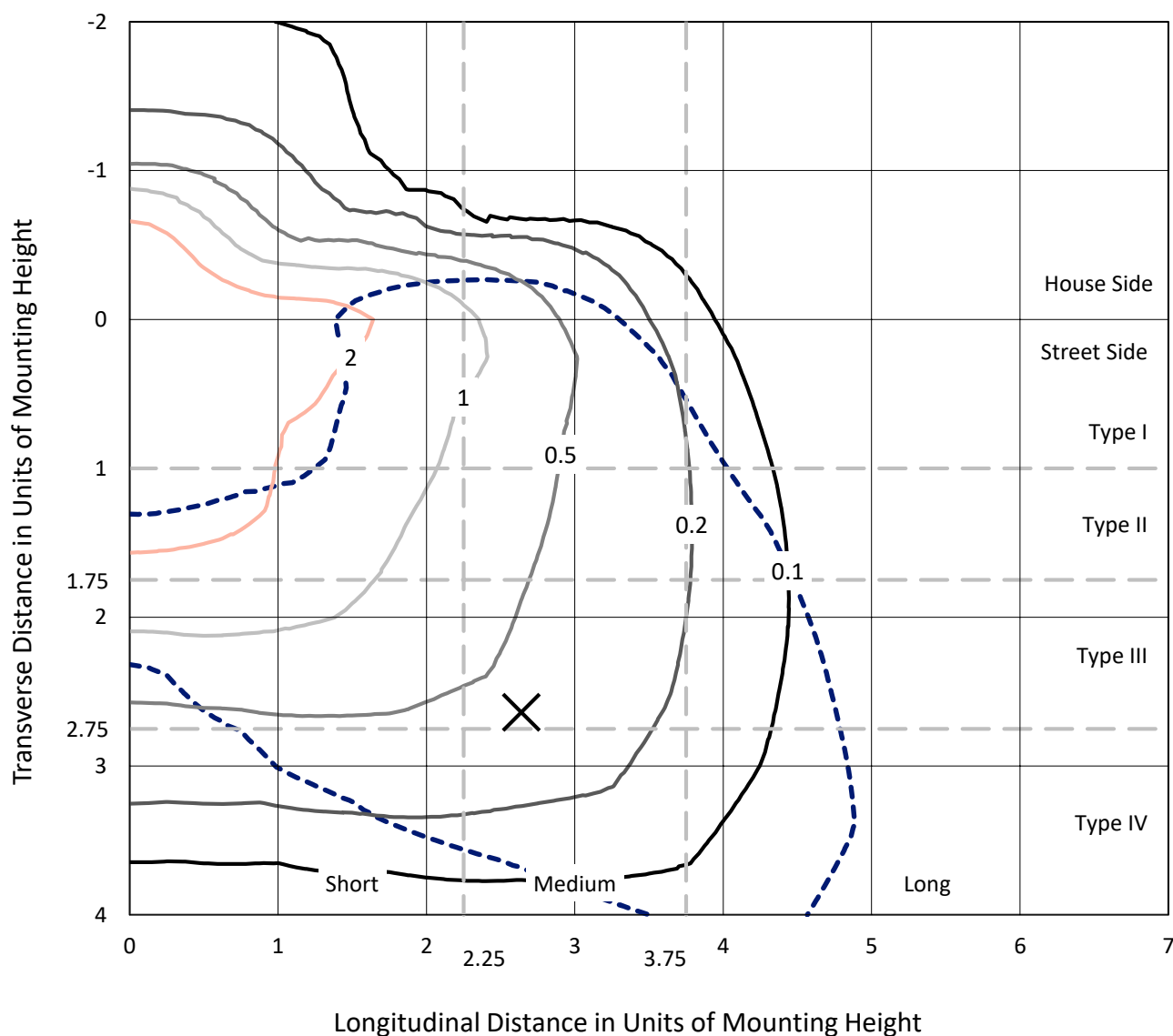


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

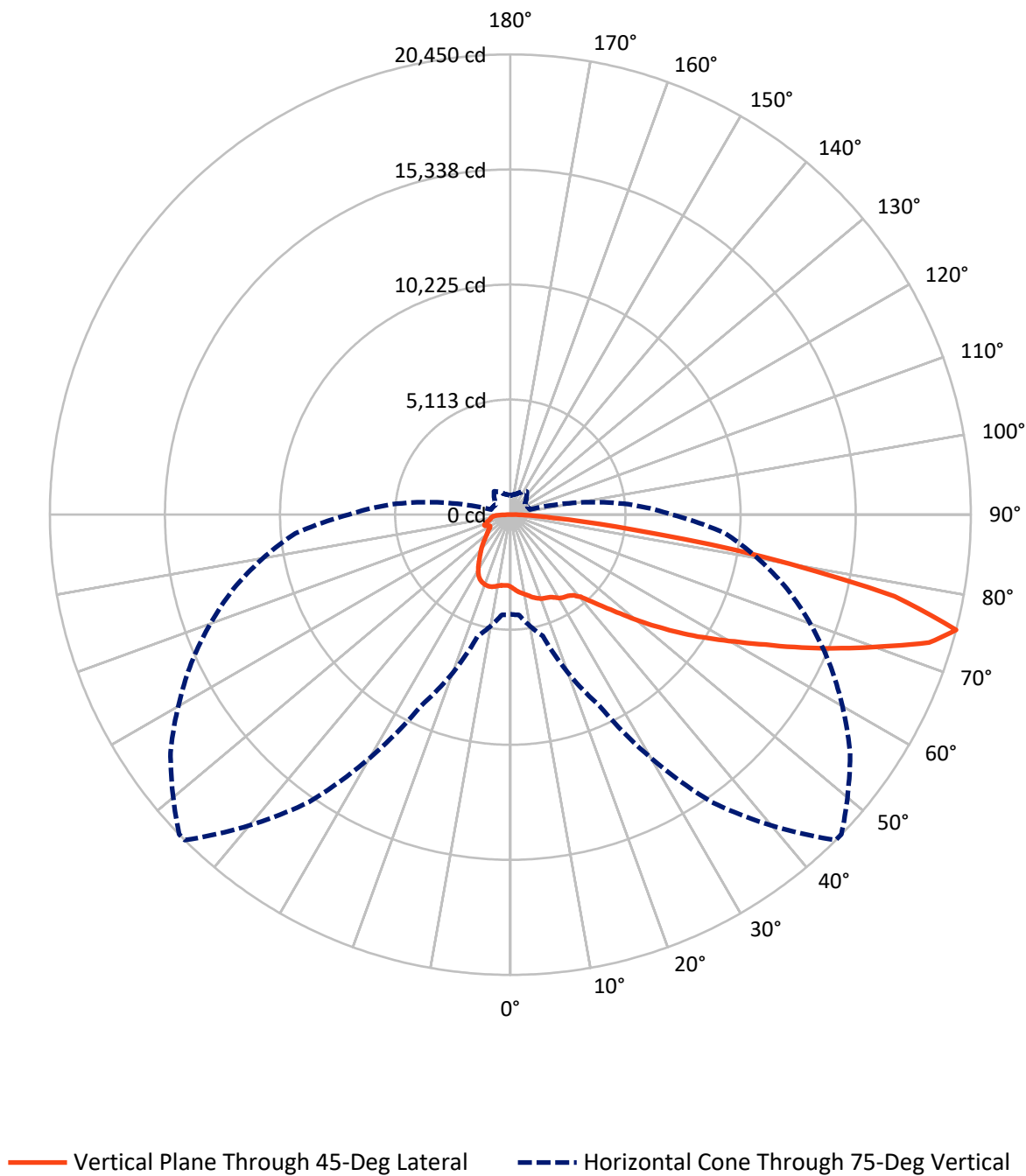


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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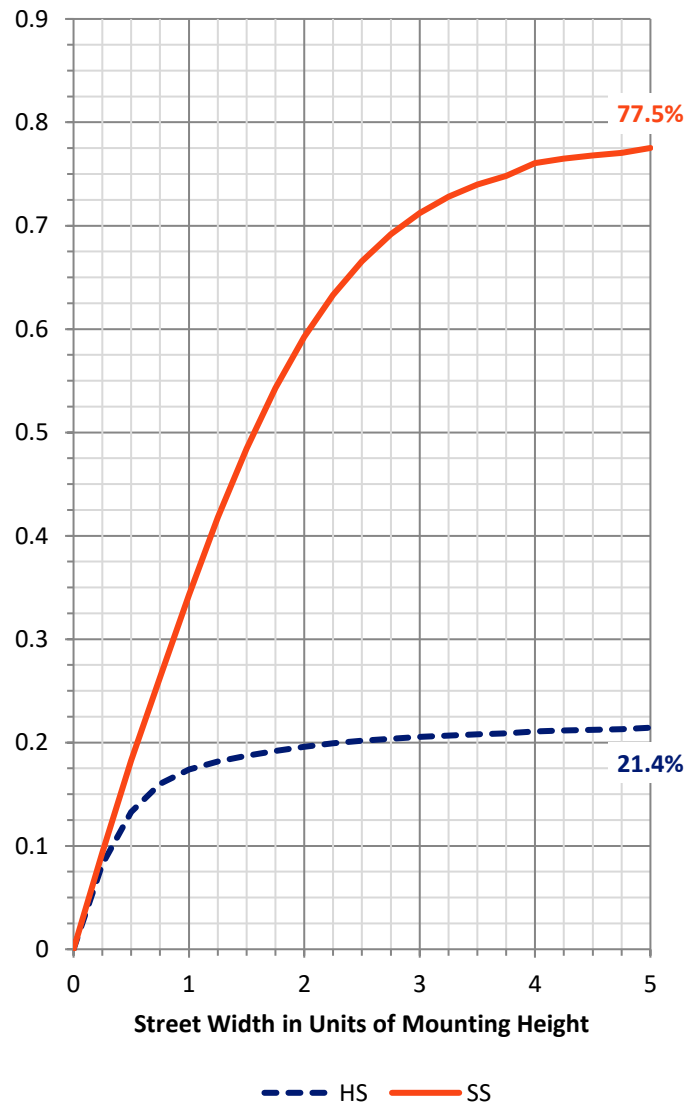
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6747.2	0.0	6747.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	23783.8	0.0	23783.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	30531.0	0.0	30531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	1.0
10°-20°	1009.2	3.3
20°-30°	1720.5	5.6
30°-40°	2410.6	7.9
40°-50°	3541.5	11.6
50°-60°	5636.3	18.5
60°-70°	8017.6	26.3
70°-80°	6713.2	22.0
80°-90°	1165.1	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°	30531.0	100.0
0°-180°	30531.0	100.0

Coefficient of Utilization



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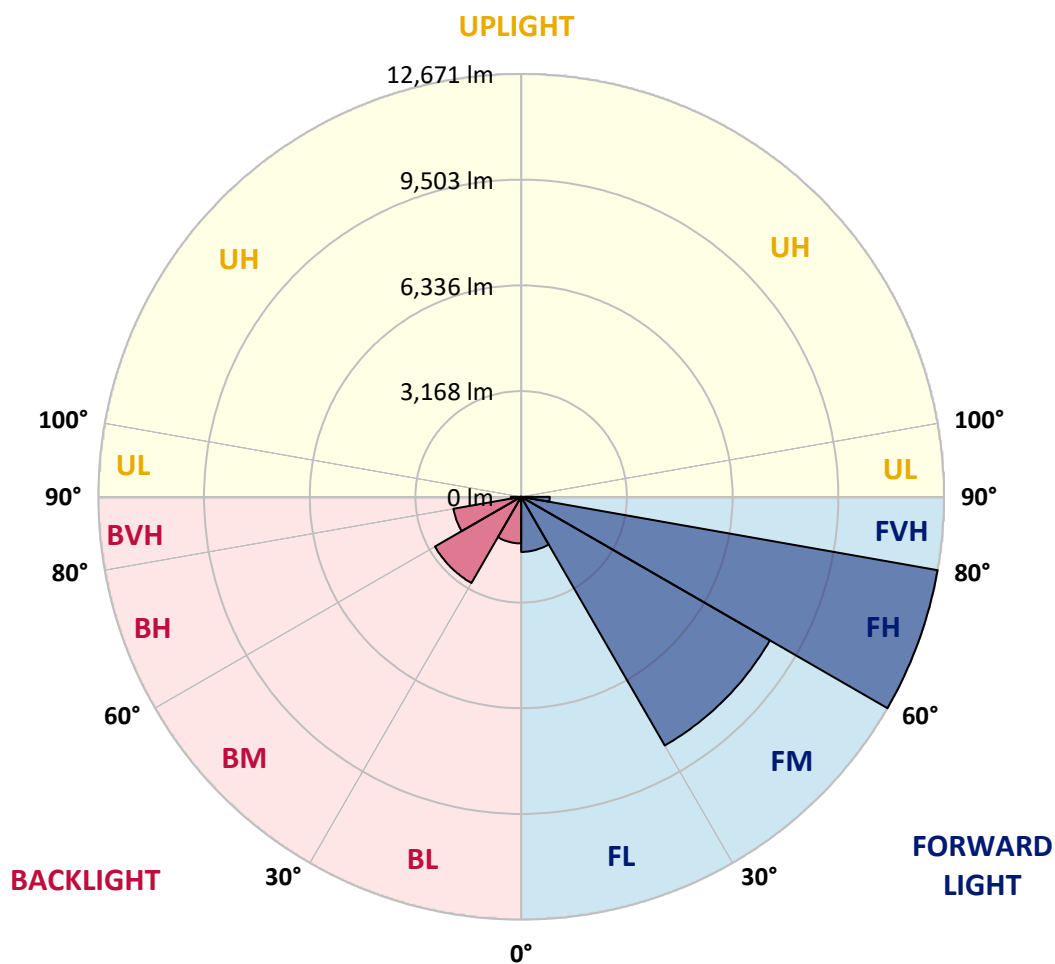
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1650.4	5.4			
FM	(30°-60°)	8605.8	28.2			
FH	(60°-80°)	12671.1	41.5			G5
FVH	(80°-90°)	856.5	2.8			G5
BL	(0°-30°)	1396.4	4.6	B3/2500		
BM	(30°-60°)	2982.6	9.8	B3/5000		
BH	(60°-80°)	2059.7	6.7	B3/2500		G3/2500
BVH	(80°-90°)	308.5	1.0			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4
2.5°	3390.0	3373.7	3365.5	3365.5	3332.9	3312.5	3308.4	3279.9	3255.4	3230.9	3210.5
5°	3585.8	3573.6	3549.1	3528.7	3483.8	3426.7	3418.6	3357.4	3296.2	3239.1	3190.1
7.5°	3765.3	3740.8	3712.3	3671.5	3598.0	3520.5	3508.3	3422.6	3337.0	3251.3	3186.0
10°	3916.2	3891.8	3851.0	3793.9	3700.0	3606.2	3594.0	3504.2	3414.5	3312.5	3218.7
12.5°	4059.0	4038.6	3977.4	3899.9	3789.8	3704.1	3691.9	3614.4	3520.5	3406.3	3283.9
15°	4181.4	4161.0	4095.7	4006.0	3879.5	3814.3	3797.9	3724.5	3630.7	3508.3	3381.8
17.5°	4242.6	4242.6	4173.2	4075.3	3957.0	3908.1	3895.8	3806.1	3720.4	3602.1	3475.7
20°	4263.0	4271.2	4222.2	4103.9	4001.9	3981.5	3969.3	3895.8	3797.9	3683.7	3565.4
22.5°	4275.2	4291.5	4250.8	4116.1	4030.5	4018.2	4010.1	3961.1	3883.6	3773.5	3655.2
25°	4316.0	4316.0	4287.5	4136.5	4067.2	4063.1	4063.1	4034.5	3981.5	3887.7	3769.4
27.5°	4377.2	4373.1	4336.4	4181.4	4148.8	4161.0	4156.9	4152.8	4116.1	4022.3	3895.8
30°	4479.2	4479.2	4438.4	4271.2	4250.8	4303.8	4307.9	4316.0	4258.9	4112.1	4010.1
32.5°	4634.2	4617.9	4577.1	4360.9	4328.3	4377.2	4385.4	4381.3	4332.3	4193.6	4144.7
35°	5111.5	5074.8	4927.9	4560.8	4397.6	4426.2	4430.2	4450.6	4458.8	4348.7	4324.2
37.5°	5947.8	5898.8	5674.5	5034.0	4617.9	4548.6	4544.5	4597.5	4642.4	4544.5	4544.5
40°	6857.5	6816.7	6686.2	5849.9	5025.8	4797.4	4781.1	4830.0	4887.1	4817.8	4838.2
42.5°	7640.8	7673.4	7685.6	6714.7	5637.8	5262.5	5217.6	5148.2	5238.0	5176.8	5258.4
45°	8228.2	8211.9	8436.2	7600.0	6429.2	5845.8	5784.6	5597.0	5711.2	5707.1	5886.6
47.5°	8852.3	8823.8	8917.6	8432.2	7330.7	6559.7	6465.9	6188.5	6359.8	6478.1	6775.9
50°	9443.9	9452.0	9484.6	9088.9	8309.8	7428.6	7310.3	6939.1	7183.9	7432.7	7852.9
52.5°	10214.9	10157.8	10117.0	9855.9	9407.1	8334.3	8256.7	7832.5	8175.2	8468.9	9027.8
55°	10888.0	10851.3	10826.8	10814.5	10325.0	9333.7	9252.1	8811.5	9305.2	9513.2	10337.2
57.5°	11605.9	11585.5	11716.1	11924.1	11728.3	10349.5	10263.8	9839.6	10390.3	10537.1	11756.9
60°	12132.2	12144.4	12503.4	13033.7	12899.1	11450.9	11348.9	10973.6	11446.8	11577.4	13176.5
62.5°	12136.3	12258.7	13090.9	14041.4	14196.4	12719.6	12601.3	12193.4	12532.0	12532.0	14449.3
65°	10977.7	11116.4	12984.8	14290.2	15509.9	14229.0	14114.8	13474.3	13600.8	13429.4	15644.6
67.5°	9823.2	9986.4	11744.6	14310.6	16431.9	15844.5	15709.8	14755.3	14539.0	14106.6	16480.9
70°	9056.3	9170.5	10639.1	14045.4	16986.7	17533.3	17431.4	15970.9	15277.4	14673.7	16305.4
72.5°	7624.4	7583.6	8987.0	12784.9	17296.7	19450.7	19365.0	17292.7	15917.9	14404.4	13906.7
75°	4426.2	4475.1	5576.6	9366.3	15591.5	20450.1	20442.0	18422.7	15636.4	12723.7	9582.6
77.5°	1276.9	1313.6	1831.7	4116.1	9860.0	17443.6	18002.5	16848.0	13217.3	9068.5	4968.7
80°	558.9	587.4	795.5	1370.7	4246.7	11393.8	11883.3	11393.8	7971.2	4161.0	1950.0
82.5°	330.4	350.8	518.1	848.5	2035.6	5421.5	6082.4	5311.4	3438.9	1766.4	807.7
85°	187.7	195.8	297.8	538.5	1280.9	1896.9	2129.5	1994.8	1676.6	1003.5	424.3
87.5°	85.7	89.7	146.9	252.9	718.0	640.5	664.9	881.2	970.9	611.9	212.1
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°	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4
2.5°	3202.3	3190.1	3165.6	3157.5	3145.2	3149.3	3153.4	3153.4	3157.5	3145.2	3145.2
5°	3169.7	3149.3	3124.8	3124.8	3124.8	3157.5	3186.0	3202.3	3210.5	3210.5	3202.3
7.5°	3157.5	3133.0	3104.4	3112.6	3120.8	3161.5	3214.6	3267.6	3283.9	3283.9	3275.8
10°	3181.9	3157.5	3137.1	3149.3	3169.7	3202.3	3243.1	3292.1	3332.9	3337.0	3332.9
12.5°	3239.1	3210.5	3190.1	3214.6	3239.1	3259.5	3279.9	3300.2	3353.3	3361.4	3361.4
15°	3332.9	3304.3	3279.9	3300.2	3308.4	3308.4	3308.4	3308.4	3361.4	3369.6	3369.6
17.5°	3426.7	3402.2	3377.8	3381.8	3357.4	3324.7	3312.5	3308.4	3337.0	3361.4	3365.5
20°	3516.5	3496.1	3471.6	3430.8	3369.6	3308.4	3288.0	3288.0	3304.3	3341.0	3341.0
22.5°	3614.4	3589.9	3549.1	3455.3	3353.3	3267.6	3247.2	3259.5	3279.9	3328.8	3324.7
25°	3724.5	3691.9	3622.5	3447.1	3300.2	3198.3	3202.3	3239.1	3275.8	3328.8	3328.8
27.5°	3846.9	3802.0	3663.3	3381.8	3181.9	3084.0	3120.8	3206.4	3259.5	3316.6	3324.7
30°	3981.5	3940.7	3696.0	3267.6	2990.2	2900.5	2990.2	3128.9	3210.5	3263.5	3275.8
32.5°	4144.7	4112.1	3724.5	3120.8	2741.4	2663.9	2794.4	2965.7	3096.3	3157.5	3169.7
35°	4348.7	4316.0	3761.2	2953.5	2508.8	2427.3	2545.6	2721.0	2892.3	2969.8	2994.3
37.5°	4613.8	4564.9	3793.9	2774.0	2313.0	2219.2	2276.3	2435.4	2590.4	2696.5	2725.1
40°	4952.4	4874.9	3822.4	2570.0	2141.7	2035.6	2056.0	2133.5	2223.3	2317.1	2353.8
42.5°	5429.7	5274.7	3826.5	2353.8	1966.3	1868.4	1860.2	1884.7	1884.7	1884.7	1896.9
45°	6094.7	5800.9	3834.7	2149.9	1786.8	1684.8	1660.3	1652.2	1591.0	1472.7	1464.5
47.5°	6935.0	6490.4	3871.4	1978.5	1599.1	1509.4	1476.7	1444.1	1329.9	1207.5	1183.0
50°	8012.0	7289.9	3944.8	1815.3	1440.0	1378.8	1338.0	1260.5	1134.1	1040.3	1015.8
52.5°	9252.1	8240.4	4014.1	1644.0	1321.7	1280.9	1232.0	1138.2	1003.5	946.4	938.3
55°	10675.8	9301.1	4152.8	1493.1	1219.7	1191.2	1146.3	1056.6	954.6	913.8	909.7
57.5°	12132.2	10488.2	4348.7	1358.4	1121.8	1105.5	1105.5	1028.0	962.7	946.4	946.4
60°	13535.5	11508.0	4197.7	1232.0	1032.1	1040.3	1117.8	1097.4	1048.4	1068.8	1081.0
62.5°	14624.7	12107.7	3406.3	1130.0	966.8	1040.3	1240.1	1240.1	1183.0	1174.9	1174.9
65°	15089.8	12099.6	2394.6	1052.5	942.3	1142.2	1382.9	1317.7	1166.7	1109.6	1097.4
67.5°	14971.5	11569.2	1652.2	999.5	934.2	1248.3	1448.2	1264.6	1093.3	1044.3	1007.6
70°	13931.2	10447.4	1272.8	950.5	921.9	1203.4	1427.8	1203.4	1036.2	991.3	958.7
72.5°	11238.8	8379.1	1056.6	901.6	873.0	1113.7	1358.4	1146.3	991.3	942.3	909.7
75°	7167.5	5270.6	893.4	836.3	779.2	999.5	1264.6	1089.2	942.3	877.1	852.6
77.5°	3447.1	2272.2	779.2	758.8	701.7	926.0	1170.8	1015.8	877.1	824.0	807.7
80°	1395.2	1040.3	677.2	681.3	644.5	881.2	1105.5	946.4	811.8	754.7	726.1
82.5°	726.1	603.8	571.1	587.4	587.4	840.4	1056.6	889.3	754.7	730.2	636.4
85°	391.6	375.3	440.6	473.2	509.9	758.8	983.1	828.1	689.4	591.5	571.1
87.5°	191.7	244.8	248.8	285.6	354.9	607.8	828.1	693.5	575.2	477.3	469.1
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)