

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: P285857

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)  
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-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33505 lumens  
Efficiency: N/A  
Efficacy: 126.9 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

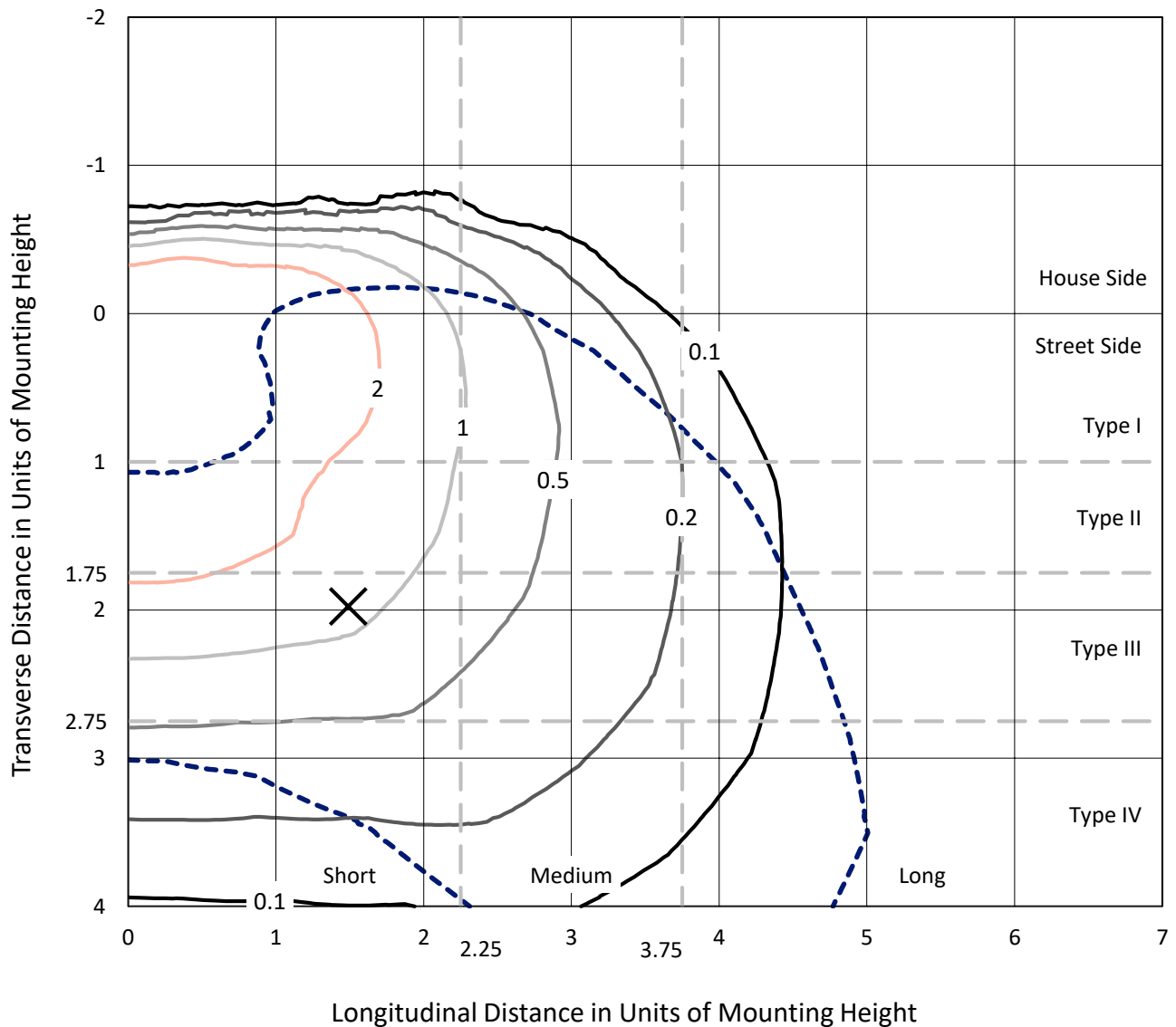


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

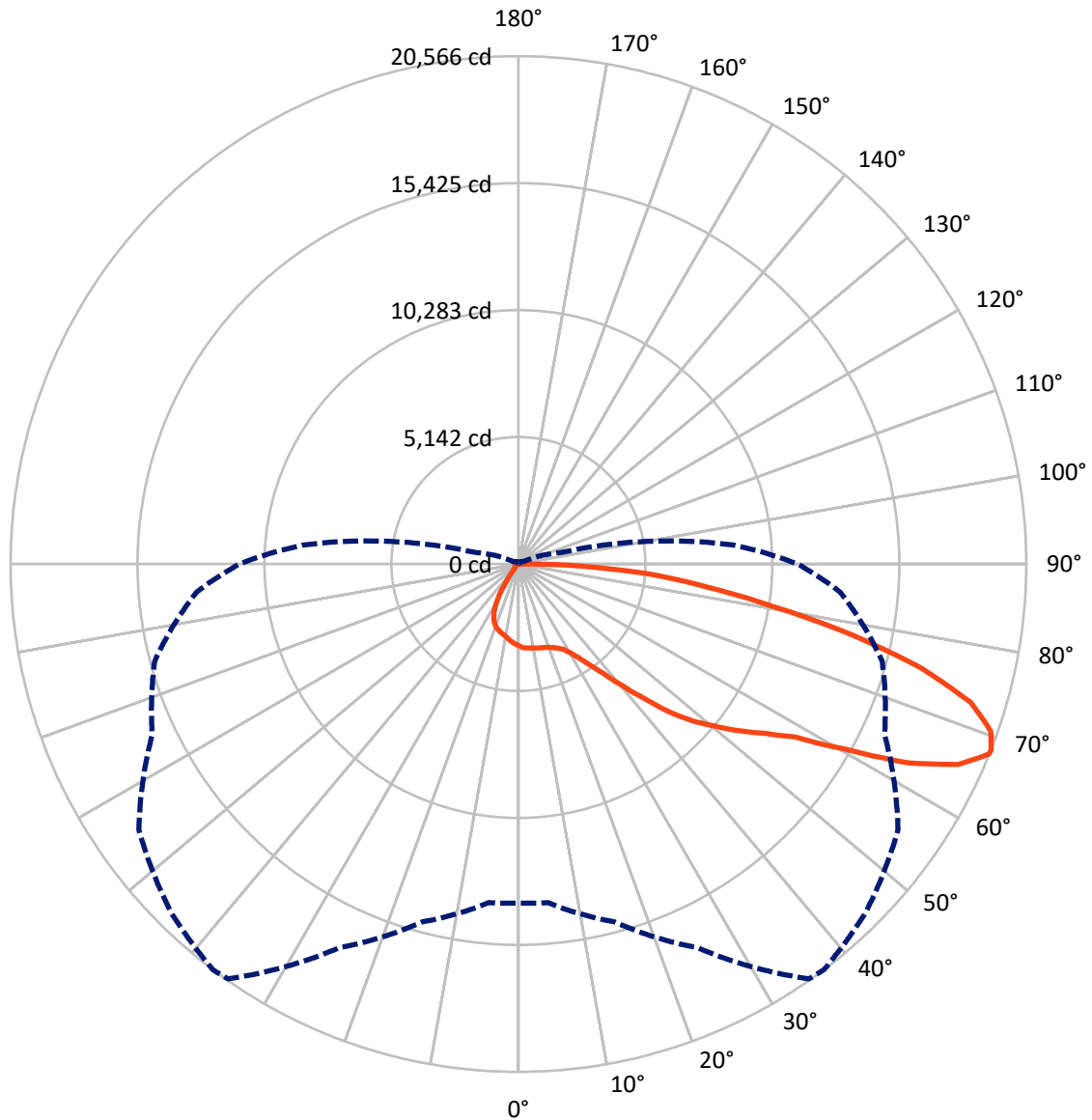


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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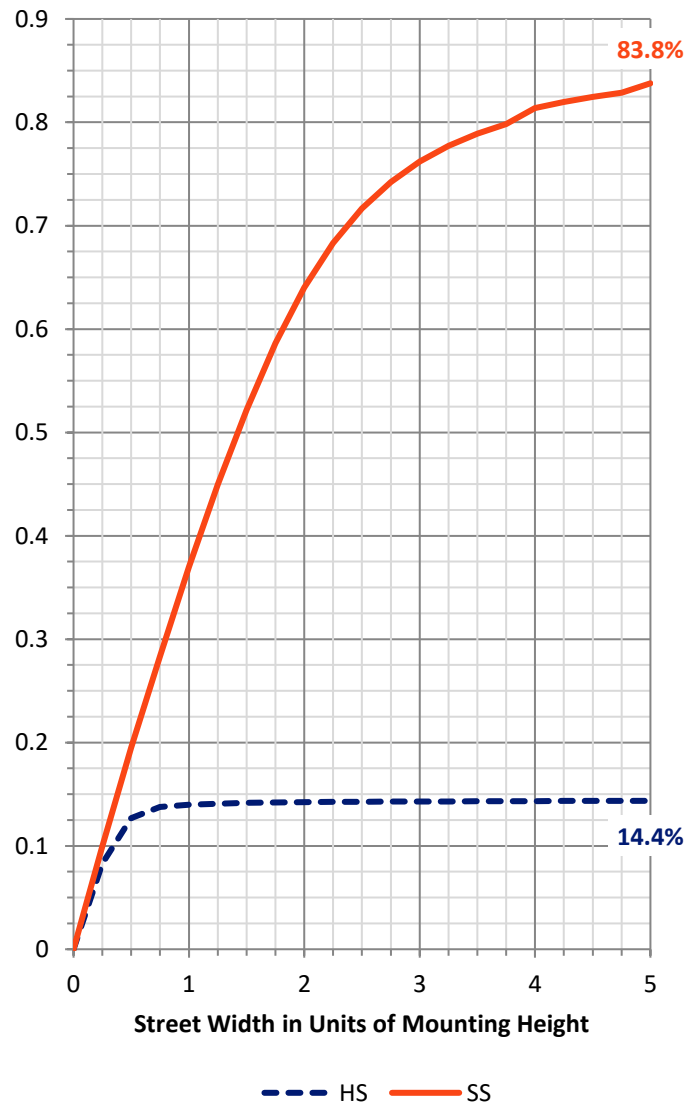
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4866.8	0.0	4866.8
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	28638.2	0.0	28638.2
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	33505.0	0.0	33505.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.2	0.9
10°-20°	929.6	2.8
20°-30°	1553.5	4.6
30°-40°	2523.2	7.5
40°-50°	4558.4	13.6
50°-60°	6790.2	20.3
60°-70°	8845.3	26.4
70°-80°	6512.4	19.4
80°-90°	1479.2	4.4
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°	33505.0	100.0
0°-180°	33505.0	100.0



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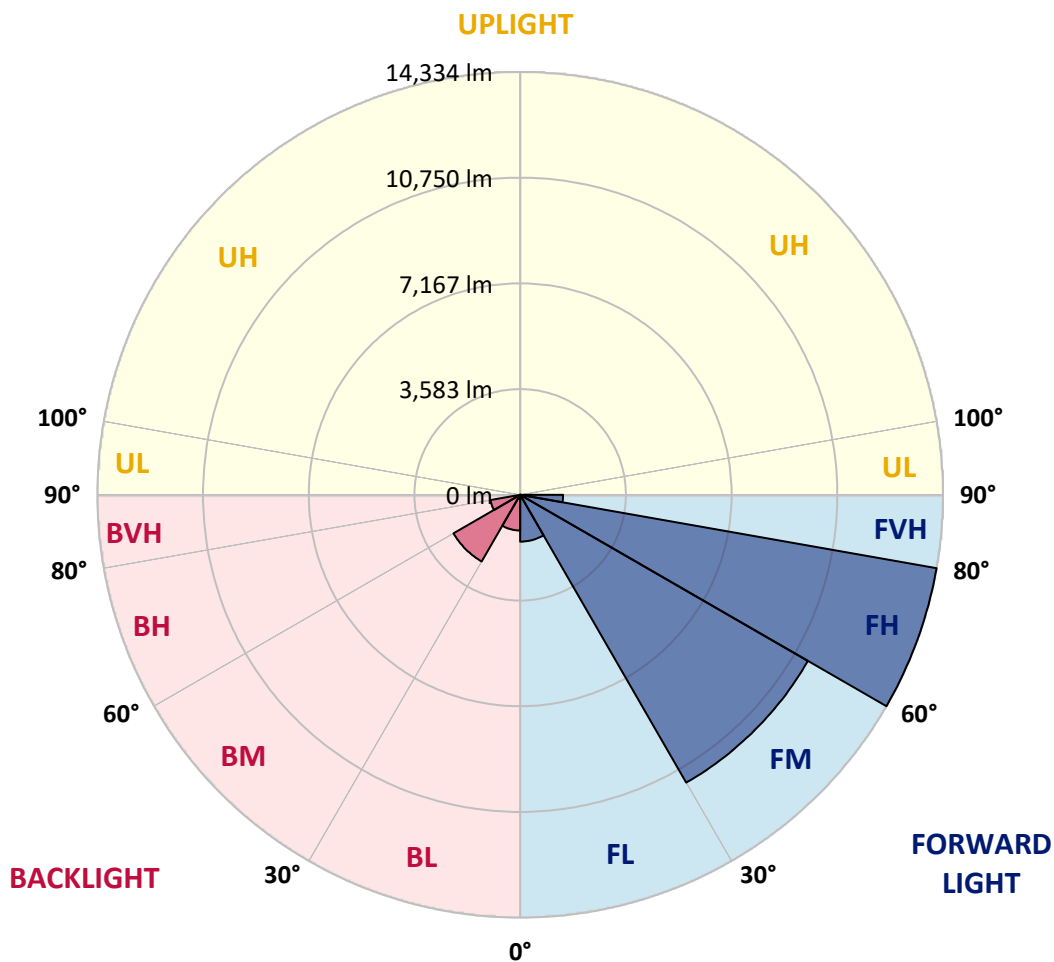
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1585.9	4.7			
FM	(30°-60°)	11263.8	33.6			
FH	(60°-80°)	14333.6	42.8			G5
FVH	(80°-90°)	1455.0	4.3			G5
BL	(0°-30°)	1210.4	3.6	B3/2500		
BM	(30°-60°)	2608.0	7.8	B3/5000		
BH	(60°-80°)	1024.1	3.1	B3/2500		G3/2500
BVH	(80°-90°)	24.3	0.1			G1/100
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°	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7
2.5°	3387.9	3390.7	3390.7	3386.5	3392.1	3387.9	3378.0	3368.1	3356.7	3311.5	3301.6
5°	3403.4	3410.5	3410.5	3409.1	3417.6	3416.2	3407.7	3399.2	3386.5	3332.7	3314.3
7.5°	3411.9	3419.0	3420.4	3417.6	3434.6	3437.4	3431.7	3431.7	3421.8	3368.1	3341.2
10°	3410.5	3411.9	3416.2	3423.3	3450.1	3457.2	3464.3	3475.6	3475.6	3431.7	3400.6
12.5°	3373.7	3375.1	3389.3	3421.8	3475.6	3486.9	3508.2	3539.3	3554.9	3530.8	3503.9
15°	3348.3	3348.3	3368.1	3419.0	3501.1	3516.7	3561.9	3610.1	3655.3	3652.5	3646.8
17.5°	3370.9	3375.1	3406.3	3450.1	3533.6	3550.6	3610.1	3687.9	3760.1	3791.2	3796.9
20°	3438.8	3443.1	3477.0	3522.3	3594.5	3607.2	3665.2	3758.6	3866.2	3934.1	3973.7
22.5°	3539.3	3542.1	3569.0	3603.0	3673.7	3682.2	3738.8	3839.3	3975.2	4091.2	4160.6
25°	3634.1	3639.8	3663.8	3689.3	3768.6	3775.6	3845.0	3951.1	4109.6	4265.3	4392.6
27.5°	3730.3	3740.2	3770.0	3805.3	3920.0	3922.8	3986.5	4091.2	4279.4	4491.7	4681.3
30°	3944.0	3932.7	3958.2	4004.9	4166.2	4176.1	4239.8	4357.3	4532.7	4771.9	5046.4
32.5°	4307.7	4295.0	4293.6	4362.9	4511.5	4559.6	4629.0	4814.4	5033.7	5271.4	5558.7
35°	5026.6	5006.8	4912.0	4889.4	4977.1	5045.0	5183.7	5455.4	5824.8	6344.1	6671.0
37.5°	6221.0	6195.5	5987.5	5742.7	5616.7	5659.2	5775.2	6151.7	6771.5	7871.1	8195.2
40°	7401.3	7406.9	7155.0	6747.5	6472.9	6481.4	6434.7	6869.2	7791.8	9296.1	9427.8
42.5°	8529.1	8519.2	8210.7	7838.5	7487.6	7418.2	7244.2	7620.6	8747.1	10445.2	10388.6
45°	9529.6	9509.8	9165.9	8957.9	8573.0	8536.2	8257.4	8383.4	9710.8	11359.4	11165.6
47.5°	10484.9	10467.9	10060.3	9863.6	9553.7	9490.0	9228.2	9291.9	10605.2	12078.3	11791.1
50°	11479.7	11513.7	10920.7	10694.3	10409.9	10326.4	10194.8	10233.0	11527.8	12754.8	12324.6
52.5°	12688.3	12517.0	11888.7	11469.8	11242.0	11225.0	11056.6	11137.3	12542.5	13349.1	12800.1
55°	13977.5	13751.0	13132.6	12586.4	12075.5	12105.2	11856.2	11975.0	13453.9	13862.8	13175.1
57.5°	14857.7	14852.0	14687.9	14165.7	13275.6	13213.3	12751.9	12852.4	14252.0	14393.5	13456.7
60°	15699.7	15930.4	16107.3	15873.8	15442.2	15244.0	13953.4	13766.6	14980.8	14873.3	13618.0
62.5°	16265.8	16336.5	17003.1	17199.8	17781.4	17743.2	16354.9	14873.3	15602.1	15184.6	13670.4
65°	15745.0	15803.0	16814.8	17761.6	19489.5	19568.7	18989.9	16700.2	16091.7	15292.1	13562.8
67.5°	14130.3	14172.8	15361.5	17321.5	20439.1	20543.8	19868.7	18606.4	16339.4	15273.7	13196.3
68°	13736.9	13766.6	15000.6	17136.1	20509.8	20566.4	19912.6	18764.9	16359.2	15252.5	13077.4
70°	12048.6	12043.0	13209.0	16035.1	20280.6	20297.5	19659.3	18937.6	16281.3	15051.6	12318.9
72.5°	9316.0	9497.1	10469.3	13506.2	19016.8	19152.7	18820.1	18460.7	15950.2	14239.3	10503.3
75°	6628.6	6770.1	7769.2	10533.0	16415.8	16844.6	17434.7	17566.3	14747.3	12238.2	7738.1
77.5°	4624.7	4774.7	5708.7	7866.8	13269.9	13830.3	15075.6	15270.9	12403.8	9277.7	3948.3
80°	2959.1	3102.0	3959.6	5721.5	10019.3	10497.6	11859.0	11577.4	8680.5	4970.0	692.0
82.5°	1798.7	1870.8	2519.0	3912.9	7302.2	7746.5	8199.4	6952.6	4154.9	703.3	222.2
85°	1021.7	1072.7	1545.3	2527.5	5158.2	5415.8	5517.7	3470.0	864.7	189.6	127.4
87.5°	271.7	377.8	834.9	1558.1	2595.4	2528.9	2725.6	1242.5	155.7	82.1	60.9
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°	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7	3315.7
2.5°	3290.2	3287.4	3277.5	3273.2	3277.5	3273.2	3242.1	3244.9	3244.9	3229.4	3219.5
5°	3297.3	3290.2	3259.1	3253.4	3236.5	3209.6	3158.6	3147.3	3137.4	3111.9	3107.7
7.5°	3317.1	3307.2	3257.7	3235.0	3188.3	3140.2	3070.9	3029.8	3010.0	2978.9	2983.1
10°	3375.1	3353.9	3283.2	3239.3	3151.5	3072.3	2971.8	2909.6	2872.8	2826.1	2841.6
12.5°	3479.9	3447.3	3359.6	3283.2	3148.7	3031.3	2888.3	2773.7	2715.7	2661.9	2677.5
15°	3622.8	3587.4	3479.9	3363.8	3185.5	3014.3	2817.6	2636.4	2531.7	2462.4	2466.6
17.5°	3782.7	3751.6	3628.5	3474.2	3242.1	3003.0	2736.9	2493.5	2302.5	2203.4	2200.6
20°	3952.5	3934.1	3799.7	3591.7	3300.1	2977.5	2633.6	2310.9	2047.7	1880.7	1866.6
22.5°	4147.8	4139.3	3982.2	3707.7	3327.0	2919.5	2494.9	2084.5	1735.0	1508.6	1494.4
25°	4404.0	4391.2	4163.4	3788.4	3315.7	2821.8	2301.0	1812.8	1338.7	1078.3	1067.0
27.5°	4712.5	4648.8	4323.3	3829.4	3260.5	2667.6	2047.7	1409.5	900.0	663.7	658.0
30°	5059.2	4934.6	4463.4	3833.6	3158.6	2452.5	1675.5	911.4	523.6	373.6	370.8
32.5°	5509.2	5289.8	4614.8	3809.6	3003.0	2162.4	1197.2	522.2	263.2	201.0	201.0
35°	6395.1	5916.8	4808.7	3747.3	2786.4	1747.7	738.7	253.3	154.3	151.4	152.8
37.5°	7711.2	6931.4	5125.7	3646.8	2497.7	1259.5	379.3	141.5	141.5	147.2	148.6
40°	8873.0	7992.8	5582.8	3505.3	2114.2	796.7	181.1	133.0	141.5	142.9	145.8
42.5°	9792.9	8844.7	6065.3	3291.6	1664.2	424.5	151.4	128.8	131.6	130.2	135.9
45°	10528.7	9516.9	6437.5	3011.4	1174.6	217.9	157.1	124.5	114.6	114.6	117.5
47.5°	11101.9	10027.8	6671.0	2707.2	714.7	175.5	157.1	110.4	103.3	104.7	106.1
50°	11605.7	10409.9	6751.7	2332.2	359.4	178.3	151.4	104.7	92.0	93.4	96.2
52.5°	11967.9	10678.7	6690.8	1866.6	198.1	181.1	144.3	96.2	79.2	86.3	89.2
55°	12241.1	10806.1	6489.9	1327.4	179.7	178.3	140.1	86.3	70.8	84.9	89.2
57.5°	12395.3	10848.6	6148.8	864.7	196.7	157.1	128.8	79.2	66.5	83.5	89.2
60°	12459.0	10770.7	5656.4	506.6	201.0	138.7	120.3	73.6	60.9	69.3	72.2
62.5°	12392.5	10571.2	4931.8	319.8	184.0	131.6	114.6	69.3	50.9	49.5	48.1
65°	12127.9	10077.3	3734.6	256.1	171.2	131.6	107.6	60.9	39.6	29.7	26.9
67.5°	11495.3	9058.4	2112.8	253.3	167.0	128.8	97.6	55.2	31.1	15.6	12.7
68°	11304.2	8765.5	1780.3	257.6	171.2	128.8	96.2	52.4	29.7	12.7	9.9
70°	10139.6	7184.7	614.2	247.7	195.3	135.9	92.0	45.3	24.1	5.7	4.2
72.5°	7721.1	4413.9	271.7	199.5	215.1	141.5	92.0	43.9	19.8	1.4	0.0
75°	4488.9	1086.8	232.1	134.4	179.7	168.4	106.1	50.9	18.4	0.0	0.0
77.5°	1088.3	250.5	202.4	77.8	141.5	184.0	125.9	56.6	19.8	0.0	0.0
80°	259.0	195.3	196.7	49.5	113.2	164.2	109.0	60.9	28.3	0.0	0.0
82.5°	171.2	154.3	175.5	26.9	65.1	121.7	76.4	38.2	35.4	0.0	0.0
85°	116.0	141.5	100.5	15.6	25.5	41.0	31.1	5.7	7.1	0.0	0.0
87.5°	65.1	41.0	17.0	7.1	5.7	4.2	0.0	0.0	0.0	0.0	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)