

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-AP-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-AP-7050-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, GRAY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35511.9 lumens  
Efficiency: N/A  
Efficacy: 134.5 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

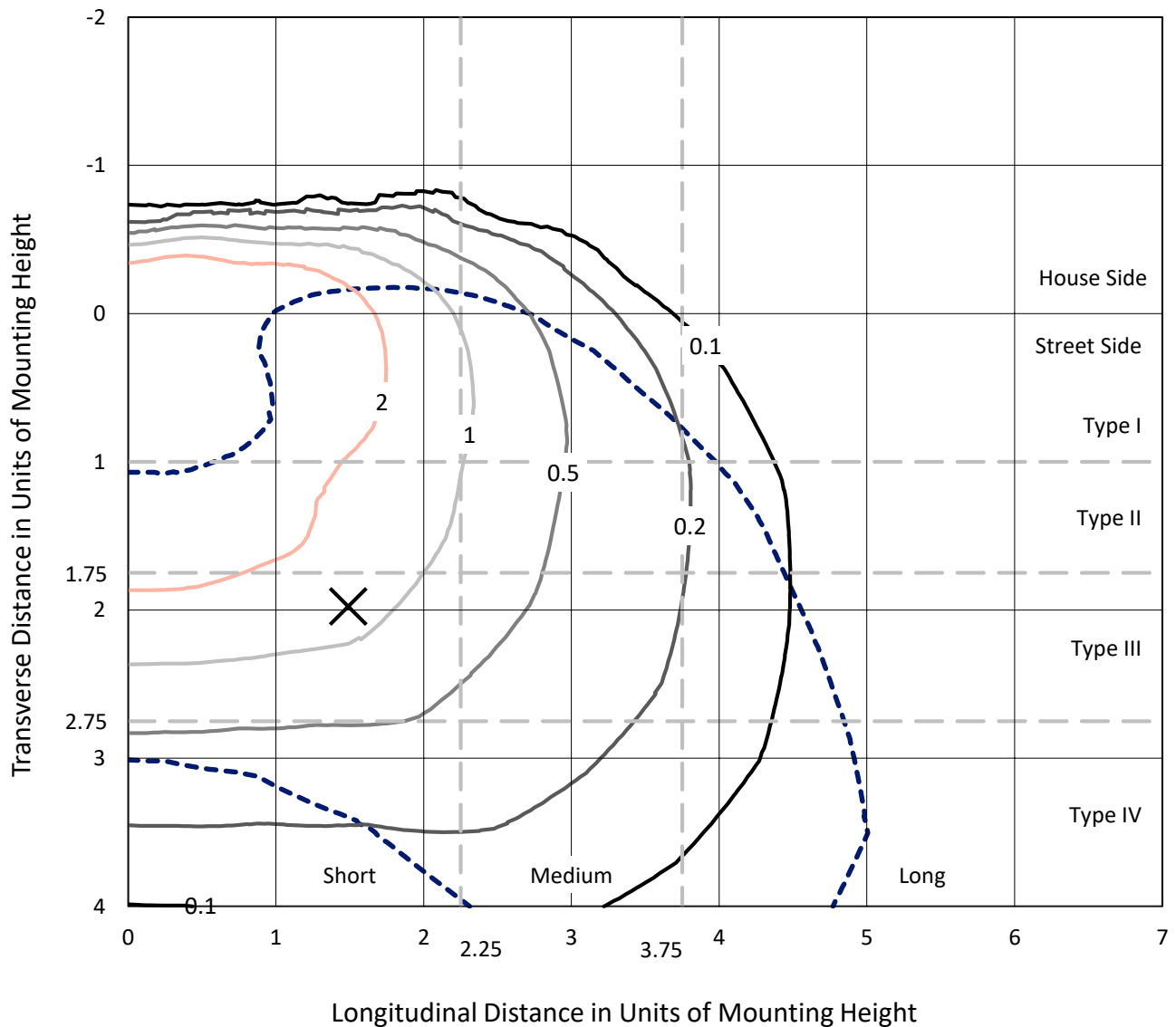


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

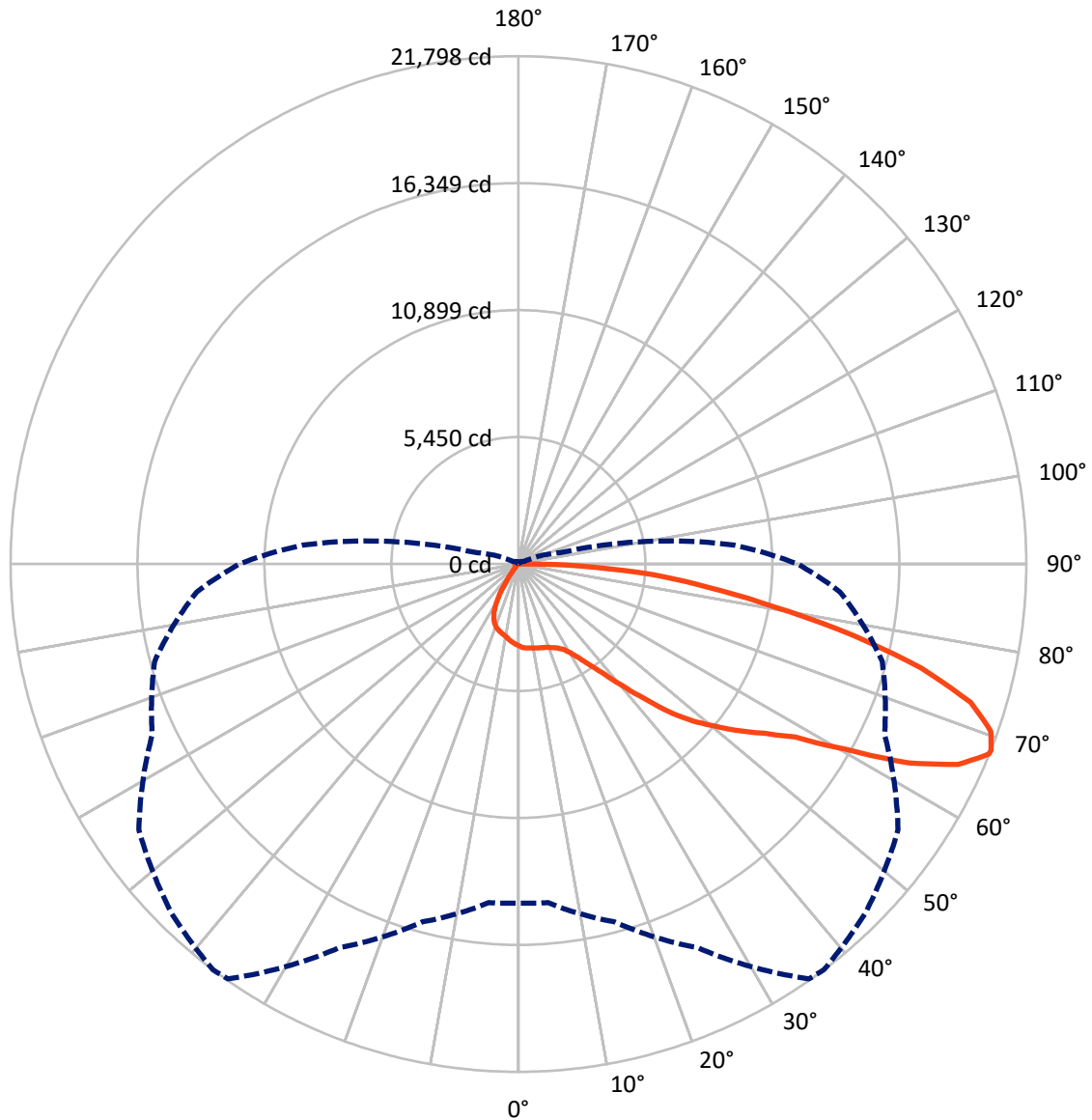


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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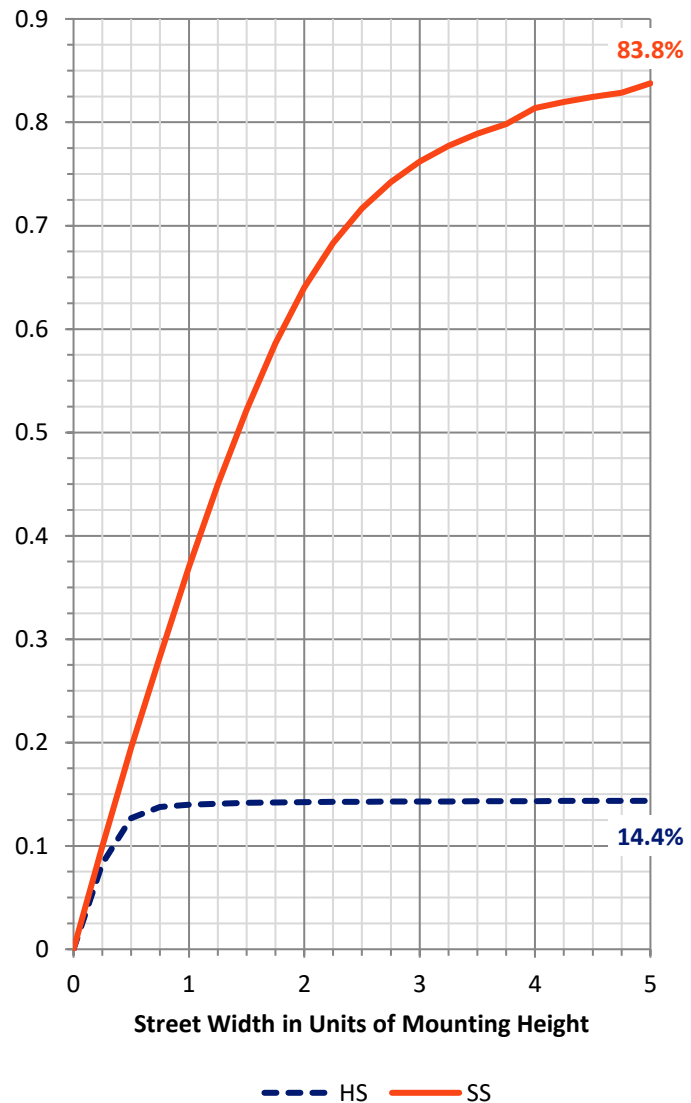
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5158.3	0.0	5158.3
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	30353.7	0.0	30353.7
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	35511.9	0.0	35511.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	331.9	0.9
10°-20°	985.3	2.8
20°-30°	1646.5	4.6
30°-40°	2674.3	7.5
40°-50°	4831.5	13.6
50°-60°	7196.9	20.3
60°-70°	9375.2	26.4
70°-80°	6902.5	19.4
80°-90°	1567.8	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°	35511.9	100.0
0°-180°	35511.9	100.0

**Coefficient of Utilization**



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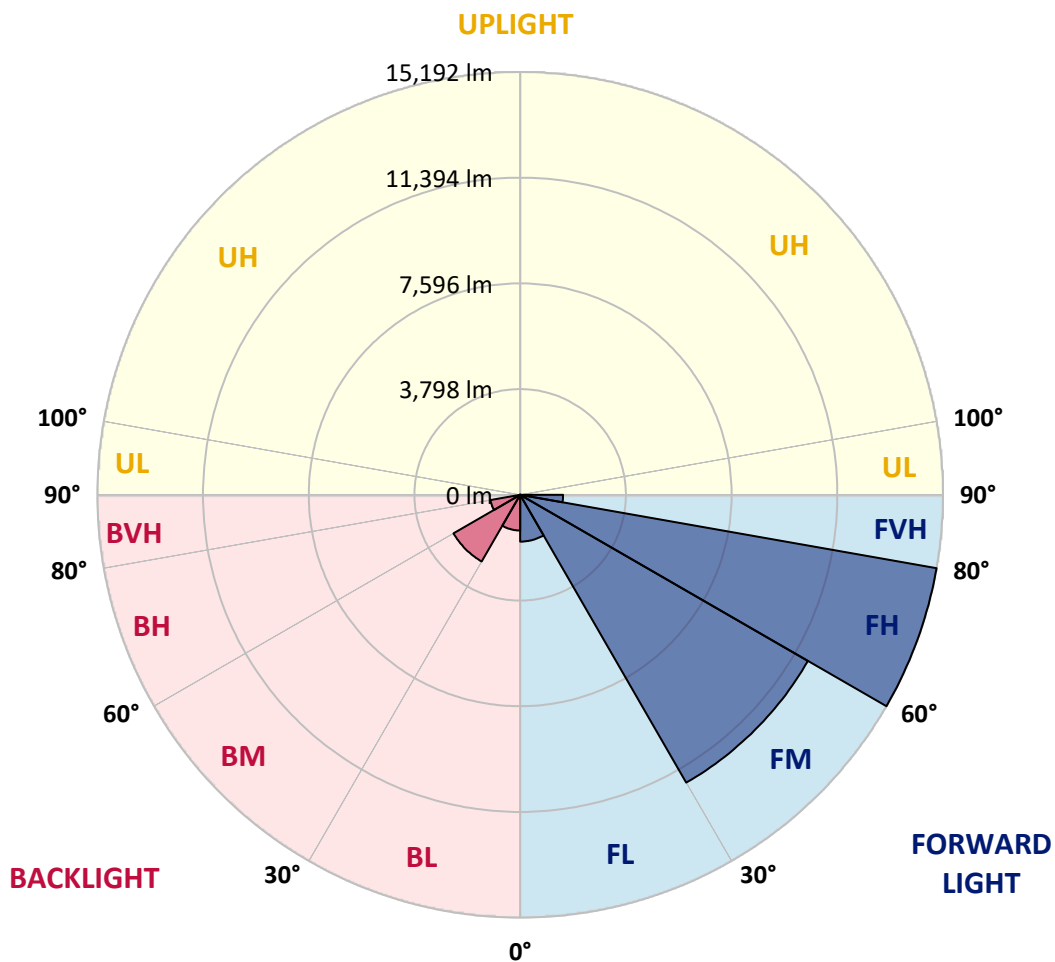
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1680.9	4.7			
FM	(30°-60°)	11938.5	33.6			
FH	(60°-80°)	15192.2	42.8			G5
FVH	(80°-90°)	1542.1	4.3			G5
BL	(0°-30°)	1282.9	3.6	B3/2500		
BM	(30°-60°)	2764.3	7.8	B3/5000		
BH	(60°-80°)	1085.4	3.1	B3/2500		G3/2500
BVH	(80°-90°)	25.7	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°	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3
2.5°	3590.8	3593.8	3593.8	3589.4	3595.3	3590.8	3580.3	3569.8	3557.8	3509.9	3499.4
5°	3607.3	3614.8	3614.8	3613.3	3622.3	3620.8	3611.8	3602.8	3589.4	3532.3	3512.8
7.5°	3616.3	3623.8	3625.3	3622.3	3640.3	3643.3	3637.3	3637.3	3626.8	3569.8	3541.3
10°	3614.8	3616.3	3620.8	3628.4	3656.8	3664.3	3671.8	3683.8	3683.8	3637.3	3604.3
12.5°	3575.8	3577.3	3592.3	3626.8	3683.8	3695.8	3718.3	3751.3	3767.8	3742.3	3713.8
15°	3548.9	3548.9	3569.8	3623.8	3710.8	3727.4	3775.3	3826.3	3874.3	3871.3	3865.2
17.5°	3572.8	3577.3	3610.3	3656.8	3745.3	3763.3	3826.3	3908.8	3985.3	4018.3	4024.3
20°	3644.8	3649.3	3685.3	3733.3	3809.8	3823.3	3884.7	3983.7	4097.8	4169.8	4211.7
22.5°	3751.3	3754.3	3782.8	3818.8	3893.8	3902.8	3962.8	4069.3	4213.3	4336.3	4409.8
25°	3851.8	3857.8	3883.3	3910.3	3994.3	4001.8	4075.3	4187.8	4355.8	4520.8	4655.7
27.5°	3953.7	3964.2	3995.8	4033.2	4154.8	4157.8	4225.3	4336.3	4535.7	4760.8	4961.7
30°	4180.2	4168.3	4195.3	4244.8	4415.8	4426.2	4493.8	4618.3	4804.2	5057.7	5348.7
32.5°	4565.7	4552.3	4550.8	4624.2	4781.7	4832.7	4906.3	5102.8	5335.2	5587.2	5891.7
35°	5327.7	5306.7	5206.2	5182.3	5275.2	5347.2	5494.2	5782.2	6173.7	6724.1	7070.6
37.5°	6593.6	6566.6	6346.2	6086.7	5953.1	5998.2	6121.1	6520.2	7177.1	8342.6	8686.1
40°	7844.6	7850.6	7583.6	7151.7	6860.6	6869.6	6820.1	7280.7	8258.5	9852.9	9992.5
42.5°	9040.0	9029.5	8702.5	8308.0	7936.1	7862.6	7678.1	8077.1	9271.1	11070.9	11010.9
45°	10100.4	10079.4	9714.9	9494.5	9086.5	9047.5	8752.0	8885.6	10292.5	12039.8	11834.4
47.5°	11112.9	11094.9	10662.9	10454.4	10126.0	10058.5	9781.0	9848.5	11240.5	12801.8	12497.4
50°	12167.3	12203.4	11574.8	11334.9	11033.5	10945.0	10805.5	10846.0	12218.3	13518.8	13062.8
52.5°	13448.3	13266.8	12600.8	12156.8	11915.4	11897.4	11718.9	11804.4	13293.8	14148.7	13566.8
55°	14814.8	14574.7	13919.2	13340.3	12798.8	12830.3	12566.4	12692.3	14259.8	14693.2	13964.3
57.5°	15747.7	15741.6	15567.7	15014.2	14070.8	14004.8	13515.7	13622.3	15105.7	15255.7	14262.8
60°	16640.1	16884.6	17072.1	16824.6	16367.2	16157.1	14789.2	14591.2	15878.1	15764.2	14433.7
62.5°	17240.1	17315.1	18021.6	18230.1	18846.5	18806.0	17334.6	15764.2	16536.7	16094.2	14489.3
65°	16688.1	16749.6	17822.0	18825.5	20656.9	20740.9	20127.4	17700.5	17055.6	16208.1	14375.2
67.5°	14976.7	15021.8	16281.7	18359.1	21663.4	21774.4	21058.8	19720.9	17318.1	16188.6	13986.8
68°	14559.7	14591.2	15899.1	18162.6	21738.3	21798.3	21105.4	19888.9	17339.1	16166.1	13860.7
70°	12770.3	12764.4	14000.2	16995.6	21495.4	21513.3	20836.9	20072.0	17256.5	15953.2	13056.8
72.5°	9874.0	10066.0	11096.4	14315.2	20155.9	20299.9	19947.4	19566.5	16905.6	15092.2	11132.4
75°	7025.7	7175.6	8234.6	11163.9	17399.1	17853.6	18479.0	18618.5	15630.7	12971.3	8201.6
77.5°	4901.7	5060.7	6050.7	8338.0	14064.8	14658.7	15978.6	16185.6	13146.8	9833.4	4184.8
80°	3136.4	3287.8	4196.8	6064.2	10619.5	11126.4	12569.4	12270.9	9200.5	5267.7	733.5
82.5°	1906.4	1982.9	2669.9	4147.3	7739.6	8210.5	8690.5	7369.1	4403.8	745.4	235.5
85°	1082.9	1137.0	1637.9	2678.9	5467.2	5740.2	5848.2	3677.9	916.5	201.0	135.0
87.5°	288.0	400.4	884.9	1651.4	2750.9	2680.4	2888.9	1316.9	165.0	87.0	64.5
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°	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3	3514.3
2.5°	3487.3	3484.3	3473.8	3469.3	3473.8	3469.3	3436.3	3439.3	3439.3	3422.8	3412.3
5°	3494.8	3487.3	3454.3	3448.3	3430.4	3401.9	3347.8	3335.8	3325.3	3298.3	3293.9
7.5°	3515.8	3505.3	3452.8	3428.8	3379.3	3328.3	3254.8	3211.3	3190.3	3157.3	3161.8
10°	3577.3	3554.8	3479.9	3433.3	3340.3	3256.3	3149.8	3083.9	3044.9	2995.4	3011.8
12.5°	3688.3	3653.8	3560.8	3479.9	3337.3	3212.9	3061.3	2939.8	2878.4	2821.3	2837.9
15°	3839.8	3802.3	3688.3	3565.3	3376.3	3194.9	2986.4	2794.3	2683.3	2609.9	2614.3
17.5°	4009.3	3976.3	3845.8	3682.3	3436.3	3182.9	2900.8	2642.9	2440.4	2335.4	2332.4
20°	4189.3	4169.8	4027.3	3806.8	3497.8	3155.9	2791.4	2449.3	2170.4	1993.4	1978.4
22.5°	4396.3	4387.2	4220.7	3929.8	3526.3	3094.4	2644.3	2209.4	1838.9	1599.0	1583.9
25°	4667.8	4654.2	4412.8	4015.3	3514.3	2990.8	2438.8	1921.4	1418.9	1142.9	1130.9
27.5°	4994.8	4927.3	4582.3	4058.8	3455.8	2827.4	2170.4	1493.9	953.9	703.5	697.4
30°	5362.2	5230.2	4730.8	4063.2	3347.8	2599.4	1775.9	966.0	555.0	396.0	393.0
32.5°	5839.2	5606.7	4891.2	4037.8	3182.9	2291.9	1268.9	553.5	279.0	213.0	213.0
35°	6778.2	6271.2	5096.7	3971.8	2953.3	1852.4	782.9	268.5	163.5	160.5	162.0
37.5°	8173.1	7346.6	5432.7	3865.2	2647.3	1334.9	402.0	150.0	150.0	156.0	157.5
40°	9404.5	8471.6	5917.2	3715.3	2240.8	844.4	191.9	141.0	150.0	151.5	154.5
42.5°	10379.5	9374.5	6428.6	3488.8	1763.9	449.9	160.5	136.5	139.5	138.0	144.0
45°	11159.4	10087.0	6823.1	3191.8	1245.0	231.0	166.5	132.0	121.5	121.5	124.5
47.5°	11766.9	10628.5	7070.6	2869.4	757.5	186.0	166.5	117.0	109.5	111.0	112.5
50°	12300.9	11033.5	7156.1	2471.9	380.9	189.0	160.5	111.0	97.5	99.0	102.0
52.5°	12684.8	11318.4	7091.6	1978.4	210.0	191.9	152.9	102.0	83.9	91.5	94.5
55°	12974.3	11453.4	6878.6	1406.9	190.5	189.0	148.5	91.5	75.0	90.0	94.5
57.5°	13137.8	11498.4	6517.1	916.5	208.5	166.5	136.5	83.9	70.5	88.5	94.5
60°	13205.3	11415.9	5995.2	536.9	213.0	147.0	127.5	78.0	64.5	73.5	76.5
62.5°	13134.8	11204.4	5227.2	339.0	195.0	139.5	121.5	73.5	53.9	52.5	51.0
65°	12854.4	10680.9	3958.3	271.4	181.5	139.5	114.0	64.5	42.0	31.5	28.5
67.5°	12183.9	9601.0	2239.4	268.5	177.0	136.5	103.4	58.5	33.0	16.5	13.5
68°	11981.3	9290.6	1886.9	273.0	181.5	136.5	102.0	55.5	31.5	13.5	10.5
70°	10747.0	7615.1	651.0	262.5	207.0	144.0	97.5	48.0	25.5	6.0	4.5
72.5°	8183.6	4678.3	288.0	211.5	228.0	150.0	97.5	46.5	21.0	1.5	0.0
75°	4757.8	1151.9	246.0	142.5	190.5	178.5	112.5	53.9	19.5	0.0	0.0
77.5°	1153.5	265.5	214.5	82.5	150.0	195.0	133.4	60.0	21.0	0.0	0.0
80°	274.5	207.0	208.5	52.5	120.0	174.0	115.5	64.5	30.0	0.0	0.0
82.5°	181.5	163.5	186.0	28.5	69.0	129.0	81.0	40.5	37.5	0.0	0.0
85°	122.9	150.0	106.5	16.5	27.0	43.5	33.0	6.0	7.5	0.0	0.0
87.5°	69.0	43.5	18.0	7.5	6.0	4.5	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)