

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: P285812

Luminaire Tested: **USSL-XL-C04-D-U-T3-BZ-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)  
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-T3-BZ-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33005 lumens  
Efficiency: N/A  
Efficacy: 125.0 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): 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

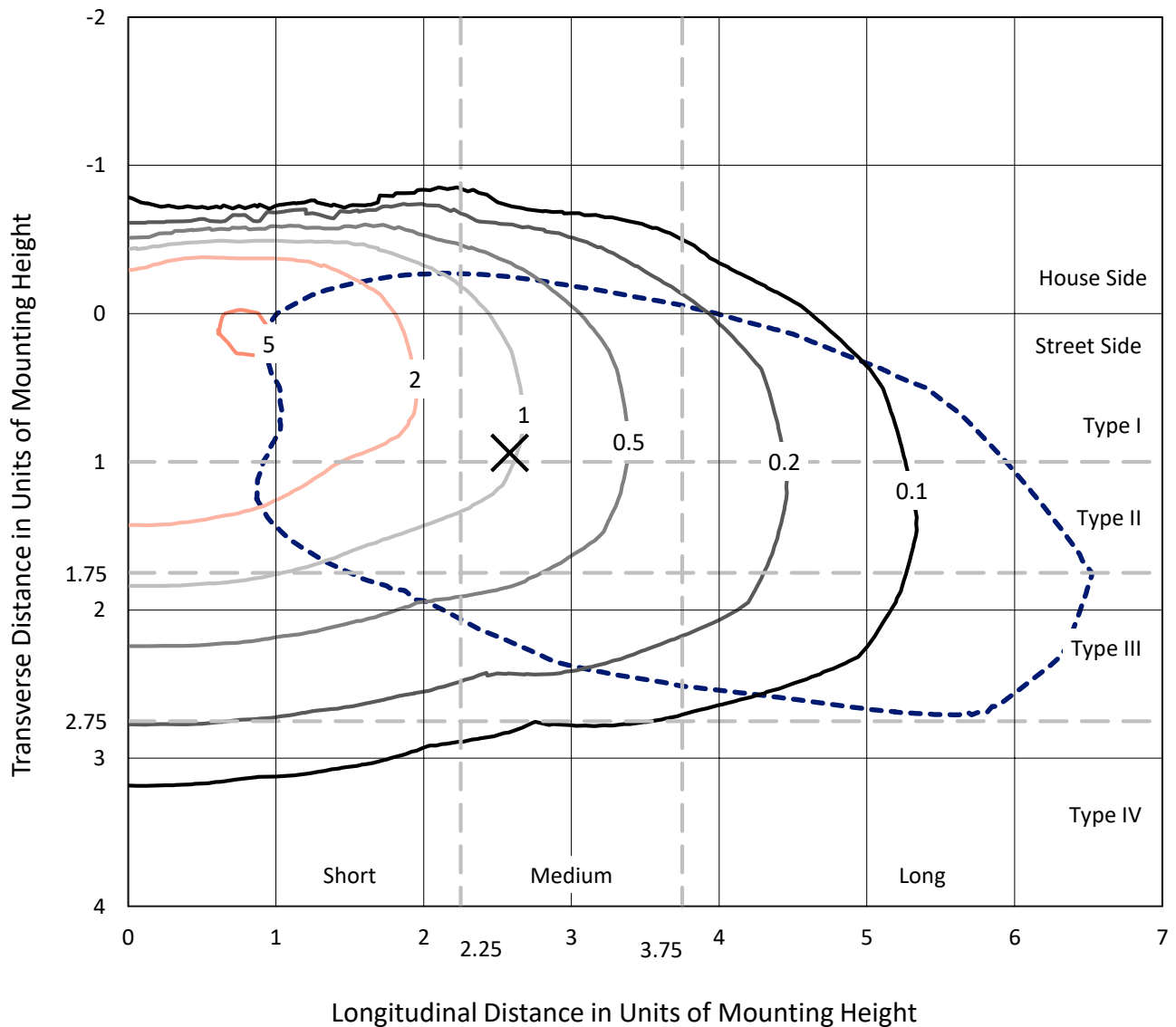


REPORT NUMBER: P285812

CATALOG NUMBER: USSL-XL-C04-D-U-T3-BZ-HSS

### Iso-Footcandle Lines of Horizontal Illumination

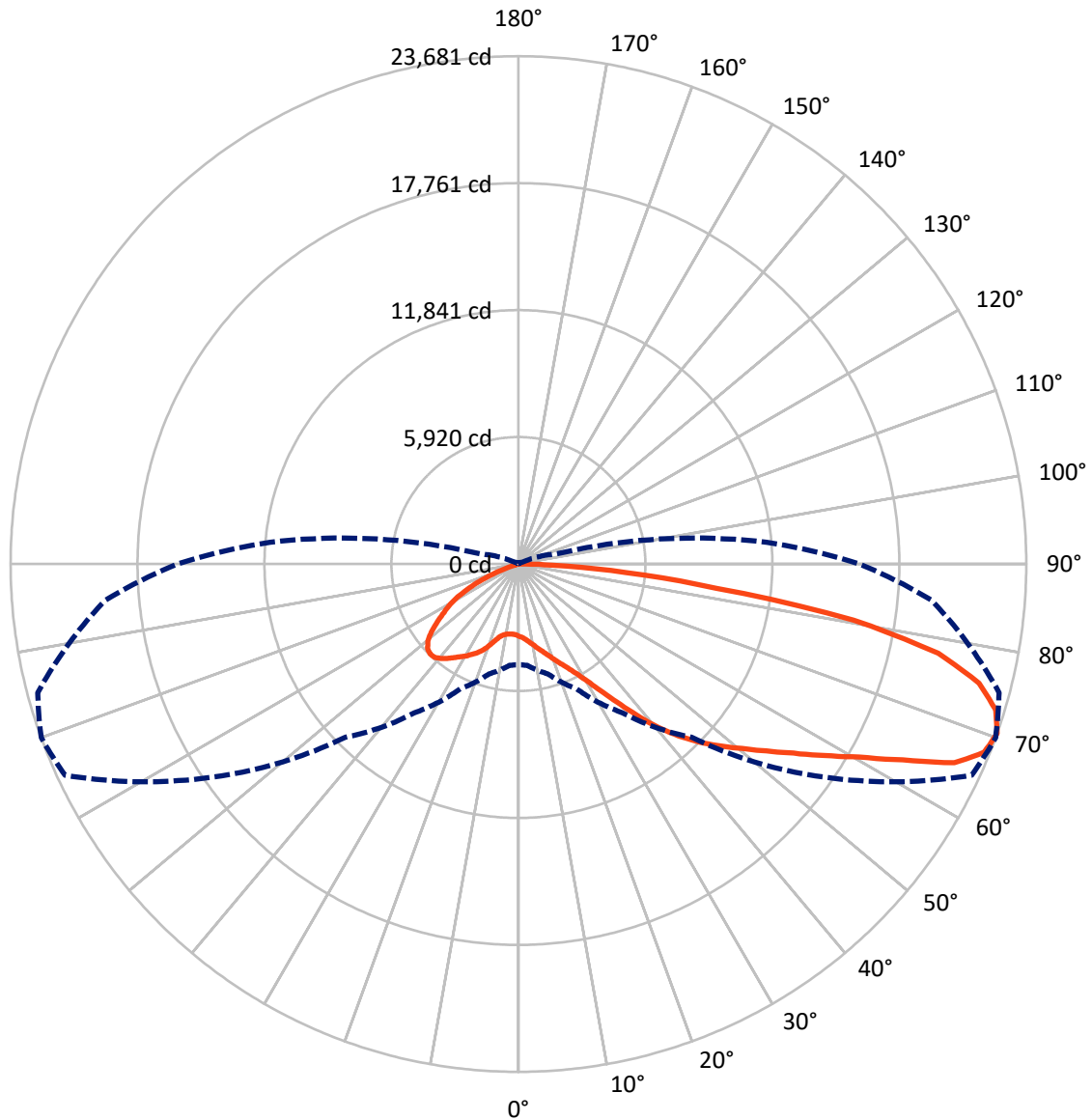
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P285812  
CATALOG NUMBER: USSL-XL-C04-D-U-T3-BZ-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P285812

CATALOG NUMBER: USSL-XL-C04-D-U-T3-BZ-HSS

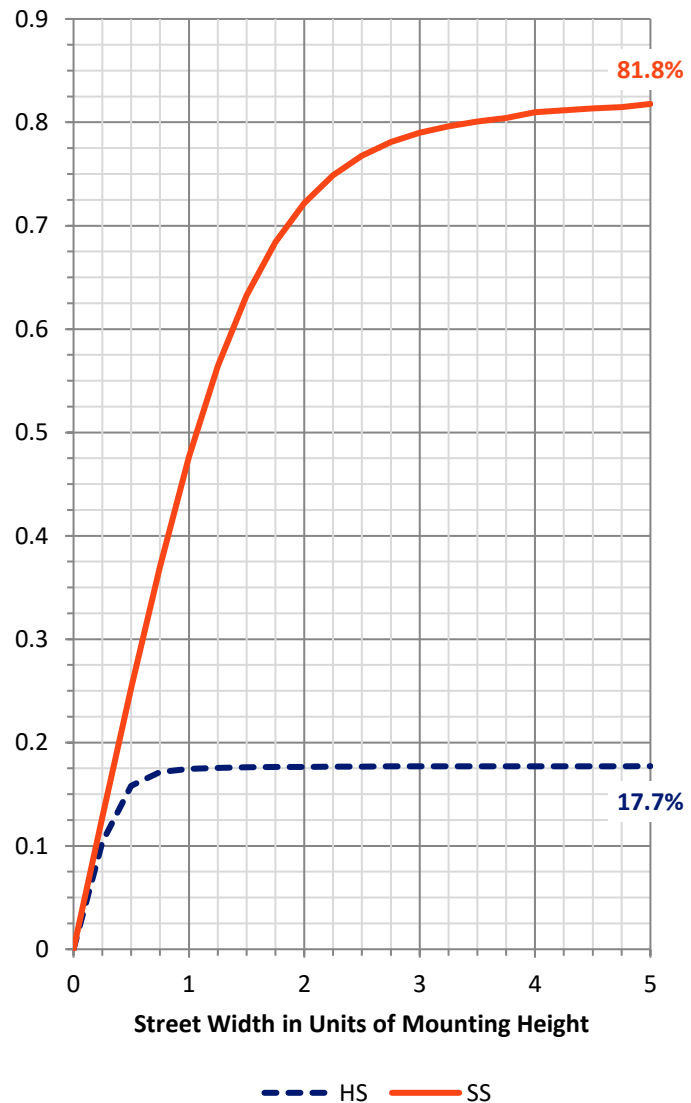
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5914.3	0.0	5914.3
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	27090.7	0.0	27090.7
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	33005.0	0.0	33005.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.1	1.0
10°-20°	1024.8	3.1
20°-30°	1866.0	5.7
30°-40°	3172.5	9.6
40°-50°	4990.1	15.1
50°-60°	6736.2	20.4
60°-70°	7880.6	23.9
70°-80°	5864.0	17.8
80°-90°	1144.8	3.5
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°	33005.0	100.0
0°-180°	33005.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P285812

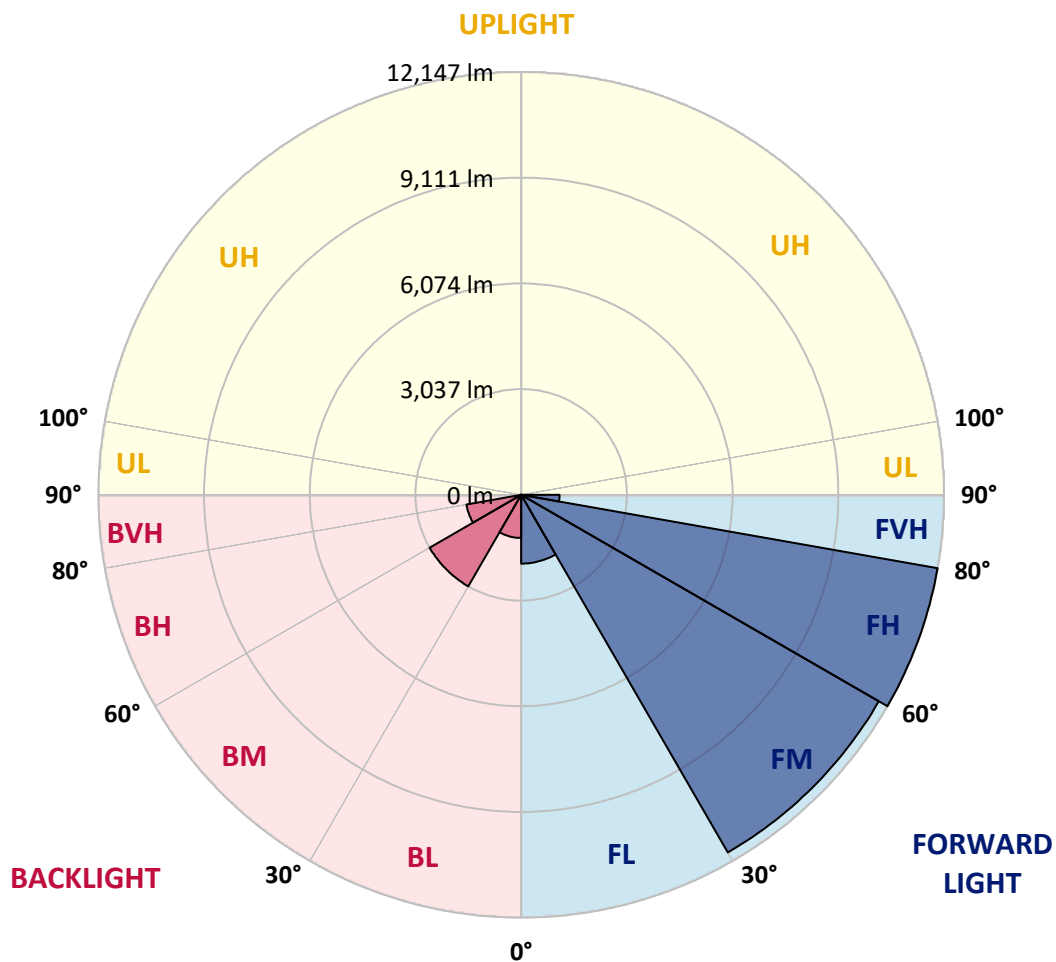
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.2	6.0			
FM	(30°-60°)	11863.4	35.9			
FH	(60°-80°)	12147.4	36.8			G5
FVH	(80°-90°)	1102.8	3.3			G5
BL	(0°-30°)	1239.7	3.8	B3/2500		
BM	(30°-60°)	3035.4	9.2	B3/5000		
BH	(60°-80°)	1597.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	41.9	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 III Medium





REPORT NUMBER: P285812

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3
2.5°	3562.3	3559.5	3565.1	3551.2	3559.5	3533.1	3509.5	3476.1	3424.7	3406.7	3371.9
5°	3736.1	3738.8	3737.5	3727.7	3715.2	3687.4	3640.2	3594.3	3533.1	3503.9	3435.8
7.5°	3884.8	3886.2	3891.7	3889.0	3882.0	3845.9	3802.8	3744.4	3670.7	3633.2	3540.1
10°	4002.9	4001.5	4009.9	4022.4	4050.2	4022.4	3965.4	3918.1	3838.9	3788.9	3673.5
12.5°	4080.8	4071.0	4094.7	4129.4	4179.4	4183.6	4146.1	4097.4	4027.9	3969.6	3840.3
15°	4116.9	4112.7	4155.8	4228.1	4300.4	4324.0	4318.4	4282.3	4230.9	4172.5	4032.1
17.5°	4201.7	4200.3	4229.5	4314.3	4399.0	4458.8	4520.0	4514.4	4467.1	4425.5	4279.5
20°	4339.3	4342.1	4342.1	4415.7	4508.8	4614.5	4735.4	4772.9	4735.4	4710.4	4570.0
22.5°	4507.5	4494.9	4486.6	4547.8	4661.7	4809.1	4980.0	5049.5	5044.0	5018.9	4934.2
25°	4743.7	4715.9	4656.2	4732.6	4873.0	5045.3	5245.5	5362.2	5372.0	5378.9	5440.1
27.5°	5119.0	5117.6	5016.2	5021.7	5117.6	5317.8	5562.4	5763.9	5791.7	5869.6	6079.4
30°	5875.1	5798.7	5681.9	5495.7	5463.7	5652.7	5944.6	6253.2	6332.4	6570.1	6824.4
32.5°	6582.6	6525.6	6443.6	6228.2	5965.5	6035.0	6367.1	6824.4	7032.9	7506.9	7739.0
35°	7190.0	7160.8	7099.6	6971.8	6734.1	6554.8	6827.2	7459.6	7898.8	8593.8	8796.7
37.5°	7783.5	7761.2	7720.9	7608.3	7459.6	7191.4	7362.3	8208.8	8923.2	9737.7	9841.9
40°	8304.7	8297.7	8332.5	8263.0	8197.7	8030.9	7980.8	8999.6	9993.4	10852.4	10827.3
42.5°	8760.6	8749.4	8919.0	8827.3	8905.1	8841.2	8736.9	9739.1	10963.6	11766.9	11682.1
45°	9065.0	9059.4	9238.7	9330.4	9550.0	9597.3	9534.7	10506.3	11847.5	12605.0	12418.8
47.5°	9297.1	9281.8	9380.5	9733.5	10139.3	10235.2	10356.2	11362.5	12678.7	13345.9	13120.7
50°	9423.5	9429.1	9632.0	10108.8	10709.2	10930.2	11184.6	12379.9	13523.8	14139.5	13767.0
52.5°	9505.6	9565.3	9864.1	10438.2	11258.2	11646.0	11937.9	13479.3	14481.4	14888.6	14491.1
55°	9563.9	9669.6	9968.4	10616.1	11601.5	12243.7	12670.4	14638.5	15571.1	15828.2	15258.4
57.5°	9187.3	9299.8	9803.0	10648.1	11885.1	12748.2	13509.9	15879.6	16845.6	16869.3	15971.4
60°	8571.5	8641.0	9284.6	10452.1	11844.8	13212.4	14539.8	17350.2	18266.1	18253.6	16852.6
62.5°	7935.0	7971.1	8624.4	9935.0	11616.8	13383.4	15521.1	19326.6	20113.3	19742.2	17750.5
65°	7094.1	7134.4	7808.5	9081.6	10983.0	13268.0	16360.6	21399.0	22342.7	21750.6	18619.1
67.5°	5998.8	6075.3	6697.9	7880.8	9951.7	12659.2	16999.9	22819.4	23426.8	22908.4	19227.9
70°	4678.4	4746.5	5302.5	6417.2	8464.5	11418.1	17297.3	23319.8	23681.2	23205.8	19330.8
72.5°	3331.6	3381.6	3627.6	4560.3	6420.0	9541.7	17015.2	23079.3	23267.0	22673.5	18633.0
75°	2536.6	2496.3	2642.2	2995.2	3755.5	6704.9	15298.7	21992.4	22184.3	21529.6	17272.3
77.5°	1836.1	1804.1	1979.2	2253.0	2620.0	3152.3	10753.7	19760.3	20007.7	19472.5	14962.3
80°	1080.0	1125.8	1357.9	1617.8	1909.7	2100.1	5070.4	14762.2	15851.8	15633.6	10908.0
82.5°	205.7	222.4	564.3	857.6	1052.2	1113.3	1919.5	8119.8	9306.8	9544.5	5762.5
85°	134.8	145.9	337.7	344.7	336.4	430.9	775.6	3912.6	5024.5	5081.5	2531.0
87.5°	62.5	69.5	102.9	148.7	189.0	226.6	255.7	1050.8	1552.5	1588.7	500.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P285812

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3	3373.3
2.5°	3353.8	3339.9	3310.8	3285.7	3269.1	3259.3	3203.7	3194.0	3173.1	3157.9	3150.9
5°	3403.9	3377.5	3306.6	3257.9	3195.4	3144.0	3050.8	3003.6	2975.8	2946.6	2939.6
7.5°	3488.7	3445.6	3334.4	3246.8	3139.8	3046.7	2916.0	2841.0	2788.1	2746.4	2742.3
10°	3608.2	3540.1	3380.2	3252.4	3098.1	2970.2	2807.6	2686.7	2613.0	2558.8	2556.0
12.5°	3756.9	3663.8	3466.4	3296.9	3098.1	2921.6	2728.4	2567.2	2458.7	2385.1	2376.7
15°	3943.2	3832.0	3609.6	3401.1	3166.2	2941.0	2674.2	2457.3	2298.9	2180.8	2175.2
17.5°	4175.3	4059.9	3843.1	3608.2	3295.5	2971.6	2633.9	2328.1	2098.8	1958.4	1943.1
20°	4468.5	4414.3	4191.9	3848.6	3428.9	2986.9	2543.5	2148.8	1837.5	1656.8	1633.1
22.5°	4888.3	4857.7	4539.4	4054.3	3505.3	2939.6	2394.8	1862.5	1484.4	1289.8	1271.8
25°	5413.7	5308.0	4850.8	4207.2	3519.2	2835.4	2143.2	1496.9	1074.4	881.2	874.2
27.5°	5961.3	5769.5	5120.4	4314.3	3478.9	2625.5	1790.2	1064.7	669.9	546.2	547.6
30°	6652.1	6287.9	5426.2	4415.7	3385.8	2340.6	1327.4	663.0	421.1	346.1	336.4
32.5°	7448.5	6944.0	5732.0	4456.0	3212.1	1937.5	842.3	407.2	264.1	225.2	221.0
35°	8378.3	7755.7	6125.3	4460.2	2925.7	1439.9	504.5	239.1	179.3	180.7	183.5
37.5°	9348.5	8616.0	6604.8	4410.2	2568.5	900.7	284.9	154.3	154.3	183.5	193.2
40°	10226.9	9438.8	7113.5	4297.6	2065.4	524.0	161.2	133.4	141.8	172.3	180.7
42.5°	11033.1	10150.5	7579.1	4122.5	1474.7	283.5	139.0	120.9	127.9	141.8	145.9
45°	11730.8	10769.0	7914.1	3840.3	895.1	175.1	127.9	109.8	108.4	118.1	120.9
47.5°	12332.6	11322.2	8140.7	3437.2	468.4	166.8	123.7	100.1	93.1	97.3	98.7
50°	12949.7	11732.2	8225.4	2871.5	240.5	157.1	115.4	93.1	86.2	98.7	100.1
52.5°	13573.8	12347.9	8236.6	2080.7	190.4	141.8	105.6	86.2	83.4	109.8	114.0
55°	14181.2	12796.8	8076.7	1205.0	184.9	132.0	95.9	77.8	80.6	83.4	83.4
57.5°	14821.9	13334.7	7740.4	526.8	179.3	120.9	89.0	70.9	59.8	66.7	69.5
60°	15508.5	13799.0	7063.5	304.4	171.0	108.4	76.4	58.4	50.0	50.0	54.2
62.5°	16202.1	14139.5	5955.7	222.4	162.6	101.5	66.7	51.4	41.7	41.7	44.5
65°	16652.4	13912.9	4593.6	197.4	157.1	91.7	58.4	44.5	33.4	32.0	34.7
67.5°	16570.4	13045.6	3235.7	176.5	143.2	83.4	51.4	38.9	29.2	23.6	25.0
70°	15890.8	11627.9	1794.4	165.4	127.9	76.4	45.9	34.7	23.6	15.3	15.3
72.5°	14638.5	9771.0	689.4	148.7	114.0	66.7	41.7	33.4	20.8	8.3	6.9
75°	12769.0	7436.0	248.8	125.1	94.5	61.2	40.3	34.7	19.5	2.8	0.0
77.5°	10011.5	4161.4	147.3	93.1	70.9	52.8	43.1	34.7	11.1	0.0	0.0
80°	5377.5	1502.5	104.2	59.8	47.3	38.9	38.9	27.8	5.6	0.0	0.0
82.5°	2232.2	337.7	66.7	33.4	32.0	25.0	25.0	12.5	1.4	0.0	0.0
85°	632.4	98.7	30.6	18.1	18.1	13.9	6.9	0.0	0.0	0.0	0.0
87.5°	54.2	20.8	8.3	9.7	6.9	2.8	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)