

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: P285805

Luminaire Tested: **USSL-XL-C047-D-U-T3-BZ-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285805  
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-C047-D-U-T3-BZ-7030-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K 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: 23315 lumens  
Efficiency: N/A  
Efficacy: 132.5 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): 176  
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

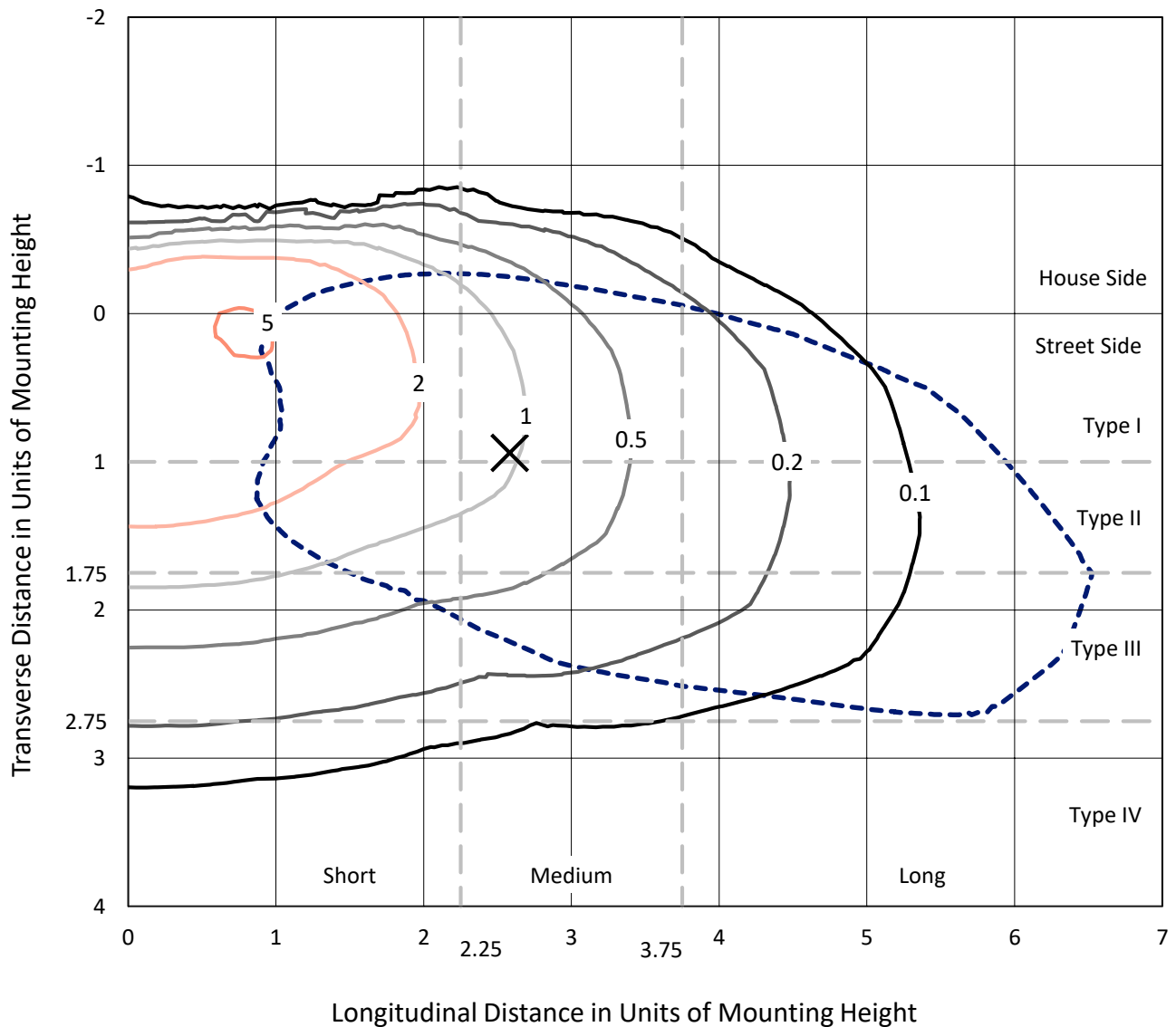


REPORT NUMBER: P285805

CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-7030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

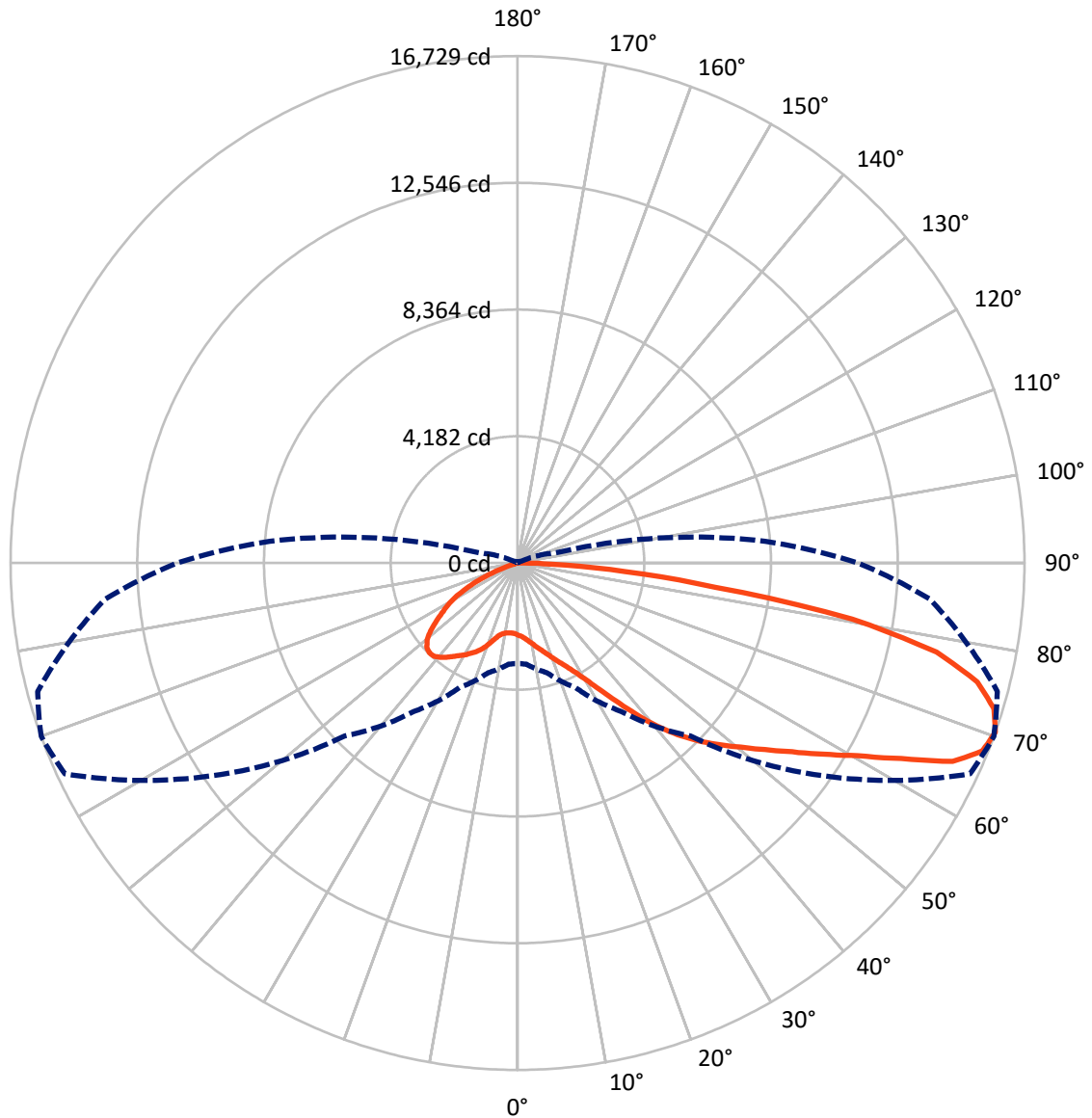


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P285805

CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-7030-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P285805

CATALOG NUMBER: USSL-XL-C047-D-U-T3-BZ-7030-HSS

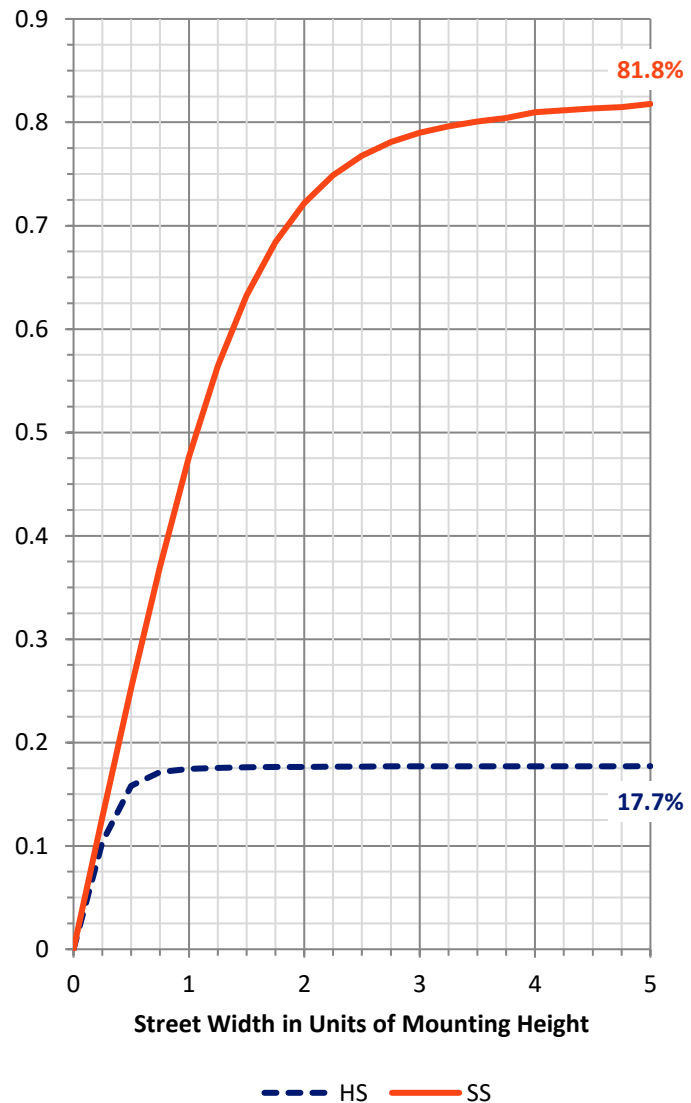
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4177.9	0.0	4177.9
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	19137.1	0.0	19137.1
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	23315.0	0.0	23315.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.3	1.0
10°-20°	723.9	3.1
20°-30°	1318.2	5.7
30°-40°	2241.1	9.6
40°-50°	3525.1	15.1
50°-60°	4758.5	20.4
60°-70°	5566.9	23.9
70°-80°	4142.4	17.8
80°-90°	808.7	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°	23315.0	100.0
0°-180°	23315.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P285805

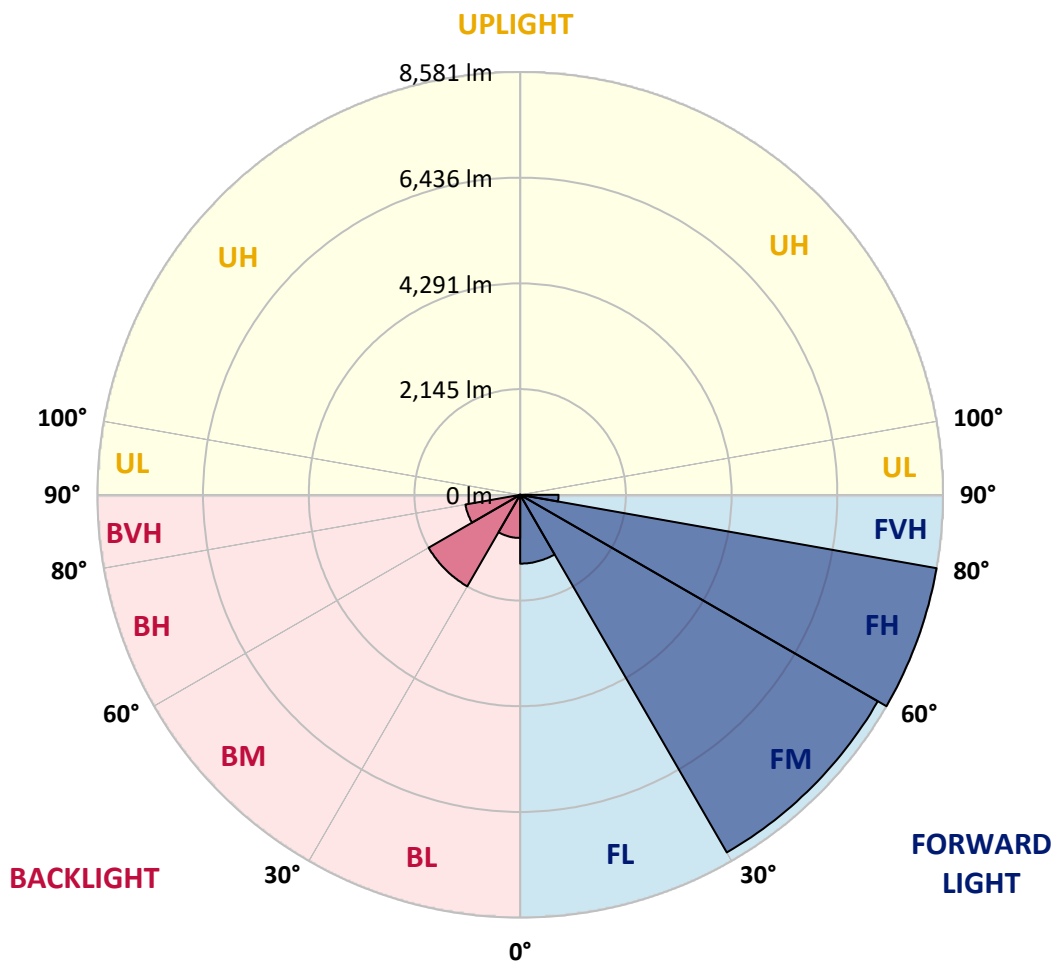
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1396.7	6.0			
FM	(30°-60°)	8380.4	35.9			
FH	(60°-80°)	8581.0	36.8			G4/12000
FVH	(80°-90°)	779.0	3.3			G5
BL	(0°-30°)	875.7	3.8	B2/1000		
BM	(30°-60°)	2144.2	9.2	B2/2500		
BH	(60°-80°)	1128.3	4.8	B3/2500		G3/2500
BVH	(80°-90°)	29.6	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: P285805

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9
2.5°	2516.5	2514.5	2518.4	2508.6	2514.5	2495.8	2479.1	2455.6	2419.3	2406.5	2381.9
5°	2639.2	2641.1	2640.2	2633.3	2624.5	2604.8	2571.4	2539.0	2495.8	2475.2	2427.1
7.5°	2744.2	2745.2	2749.1	2747.2	2742.3	2716.7	2686.3	2645.1	2593.0	2566.5	2500.7
10°	2827.7	2826.7	2832.6	2841.4	2861.1	2841.4	2801.2	2767.8	2711.8	2676.5	2595.0
12.5°	2882.7	2875.8	2892.5	2917.0	2952.4	2955.3	2928.8	2894.5	2845.4	2804.1	2712.8
15°	2908.2	2905.3	2935.7	2986.8	3037.8	3054.5	3050.6	3025.0	2988.7	2947.5	2848.3
17.5°	2968.1	2967.1	2987.7	3047.6	3107.5	3149.7	3192.9	3189.0	3155.6	3126.2	3023.1
20°	3065.3	3067.3	3067.3	3119.3	3185.1	3259.7	3345.1	3371.6	3345.1	3327.5	3228.3
22.5°	3184.1	3175.3	3169.4	3212.6	3293.1	3397.2	3517.9	3567.0	3563.1	3545.4	3485.5
25°	3351.0	3331.4	3289.2	3343.2	3442.3	3564.1	3705.5	3787.9	3794.8	3799.7	3842.9
27.5°	3616.1	3615.1	3543.5	3547.4	3615.1	3756.5	3929.3	4071.7	4091.3	4146.3	4294.6
30°	4150.2	4096.2	4013.8	3882.2	3859.6	3993.1	4199.3	4417.3	4473.3	4641.2	4820.8
32.5°	4650.0	4609.7	4551.8	4399.6	4214.1	4263.1	4497.8	4820.8	4968.1	5302.9	5466.9
35°	5079.1	5058.4	5015.2	4924.9	4757.0	4630.4	4822.8	5269.5	5579.8	6070.7	6214.1
37.5°	5498.3	5482.6	5454.1	5374.6	5269.5	5080.0	5200.8	5798.7	6303.4	6878.8	6952.4
40°	5866.5	5861.6	5886.1	5837.0	5790.9	5673.1	5637.7	6357.4	7059.4	7666.2	7648.5
42.5°	6188.5	6180.7	6300.5	6235.7	6290.6	6245.5	6171.8	6879.7	7744.7	8312.3	8252.4
45°	6403.6	6399.6	6526.3	6591.1	6746.2	6779.6	6735.4	7421.7	8369.2	8904.3	8772.7
47.5°	6567.5	6556.7	6626.4	6875.8	7162.5	7230.3	7315.7	8026.5	8956.3	9427.6	9268.6
50°	6656.9	6660.8	6804.1	7140.9	7565.1	7721.2	7900.9	8745.2	9553.3	9988.2	9725.1
52.5°	6714.8	6757.0	6968.1	7373.6	7952.9	8226.8	8433.0	9521.9	10229.8	10517.5	10236.7
55°	6756.0	6830.7	7041.8	7499.3	8195.4	8649.0	8950.4	10340.7	10999.5	11181.2	10778.6
57.5°	6490.0	6569.5	6924.9	7521.9	8395.7	9005.4	9543.5	11217.5	11899.9	11916.6	11282.3
60°	6055.0	6104.1	6558.7	7383.4	8367.2	9333.4	10271.0	12256.3	12903.3	12894.5	11904.8
62.5°	5605.3	5630.8	6092.3	7018.2	8206.2	9454.1	10964.2	13652.5	14208.2	13946.0	12539.1
65°	5011.3	5039.8	5516.0	6415.3	7758.5	9372.6	11557.2	15116.4	15783.1	15364.8	13152.7
67.5°	4237.6	4291.6	4731.5	5567.0	7030.0	8942.6	12008.9	16119.8	16548.9	16182.7	13582.8
70°	3304.9	3353.0	3745.7	4533.2	5979.4	8065.8	12219.0	16473.3	16728.6	16392.8	13655.4
72.5°	2353.5	2388.8	2562.6	3221.4	4535.1	6740.3	12019.7	16303.4	16436.0	16016.7	13162.5
75°	1791.9	1763.4	1866.5	2115.9	2652.9	4736.4	10807.1	15535.6	15671.1	15208.7	12201.3
77.5°	1297.0	1274.4	1398.1	1591.6	1850.8	2226.8	7596.5	13958.8	14133.6	13755.6	10569.5
80°	762.9	795.3	959.3	1142.9	1349.0	1483.6	3581.7	10428.1	11197.9	11043.7	7705.5
82.5°	145.3	157.1	398.6	605.8	743.3	786.5	1355.9	5735.9	6574.4	6742.3	4070.7
85°	95.2	103.1	238.6	243.5	237.6	304.4	547.9	2763.9	3549.3	3589.6	1787.9
87.5°	44.2	49.1	72.7	105.1	133.5	160.0	180.7	742.3	1096.7	1122.2	353.5
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°	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9	2382.9
2.5°	2369.2	2359.4	2338.7	2321.1	2309.3	2302.4	2263.1	2256.3	2241.5	2230.7	2225.8
5°	2404.5	2385.9	2335.8	2301.4	2257.2	2220.9	2155.1	2121.8	2102.1	2081.5	2076.6
7.5°	2464.4	2434.0	2355.4	2293.6	2218.0	2152.2	2059.9	2006.9	1969.6	1940.1	1937.2
10°	2548.9	2500.7	2387.8	2297.5	2188.5	2098.2	1983.3	1897.9	1845.9	1807.6	1805.6
12.5°	2653.9	2588.1	2448.7	2328.9	2188.5	2063.8	1927.4	1813.5	1736.9	1684.8	1678.9
15°	2785.5	2706.9	2549.8	2402.6	2236.6	2077.6	1889.1	1735.9	1624.0	1540.5	1536.6
17.5°	2949.4	2868.0	2714.8	2548.9	2327.9	2099.2	1860.6	1644.6	1482.6	1383.4	1372.6
20°	3156.6	3118.3	2961.2	2718.7	2422.2	2110.0	1796.8	1517.9	1298.0	1170.4	1153.7
22.5°	3453.1	3431.5	3206.7	2864.0	2476.2	2076.6	1691.7	1315.7	1048.6	911.1	898.4
25°	3824.3	3749.6	3426.6	2972.0	2486.0	2003.0	1514.0	1057.4	759.0	622.5	617.6
27.5°	4211.1	4075.6	3617.1	3047.6	2457.5	1854.7	1264.6	752.1	473.2	385.9	386.8
30°	4699.1	4441.8	3833.1	3119.3	2391.8	1653.4	937.7	468.3	297.5	244.5	237.6
32.5°	5261.7	4905.3	4049.1	3147.8	2269.0	1368.7	595.0	287.7	186.5	159.1	156.1
35°	5918.5	5478.7	4327.0	3150.7	2066.8	1017.2	356.4	168.9	126.7	127.6	129.6
37.5°	6603.9	6086.4	4665.7	3115.4	1814.4	636.2	201.3	109.0	109.0	129.6	136.5
40°	7224.4	6667.7	5025.1	3035.8	1459.0	370.2	113.9	94.3	100.1	121.7	127.6
42.5°	7793.8	7170.4	5354.0	2912.1	1041.7	200.3	98.2	85.4	90.3	100.1	103.1
45°	8286.7	7607.3	5590.6	2712.8	632.3	123.7	90.3	77.6	76.6	83.5	85.4
47.5°	8711.9	7998.1	5750.6	2428.1	330.9	117.8	87.4	70.7	65.8	68.7	69.7
50°	9147.8	8287.7	5810.5	2028.5	169.9	110.9	81.5	65.8	60.9	69.7	70.7
52.5°	9588.6	8722.7	5818.4	1469.8	134.5	100.1	74.6	60.9	58.9	77.6	80.5
55°	10017.7	9039.8	5705.5	851.3	130.6	93.3	67.7	55.0	56.9	58.9	58.9
57.5°	10470.3	9419.8	5467.9	372.1	126.7	85.4	62.8	50.1	42.2	47.1	49.1
60°	10955.4	9747.7	4989.7	215.0	120.8	76.6	54.0	41.2	35.3	35.3	38.3
62.5°	11445.3	9988.2	4207.2	157.1	114.9	71.7	47.1	36.3	29.5	29.5	31.4
65°	11763.4	9828.2	3245.0	139.4	110.9	64.8	41.2	31.4	23.6	22.6	24.5
67.5°	11705.5	9215.5	2285.7	124.7	101.1	58.9	36.3	27.5	20.6	16.7	17.7
70°	11225.4	8214.1	1267.6	116.8	90.3	54.0	32.4	24.5	16.7	10.8	10.8
72.5°	10340.7	6902.3	487.0	105.1	80.5	47.1	29.5	23.6	14.7	5.9	4.9
75°	9020.2	5252.8	175.7	88.4	66.8	43.2	28.5	24.5	13.7	2.0	0.0
77.5°	7072.2	2939.6	104.1	65.8	50.1	37.3	30.4	24.5	7.9	0.0	0.0
80°	3798.7	1061.4	73.6	42.2	33.4	27.5	27.5	19.6	3.9	0.0	0.0
82.5°	1576.8	238.6	47.1	23.6	22.6	17.7	17.7	8.8	1.0	0.0	0.0
85°	446.7	69.7	21.6	12.8	12.8	9.8	4.9	0.0	0.0	0.0	0.0
87.5°	38.3	14.7	5.9	6.9	4.9	2.0	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)