

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: P381185

Luminaire Tested: **USSL-XL-PA3B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA3B-730-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22043 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 234
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

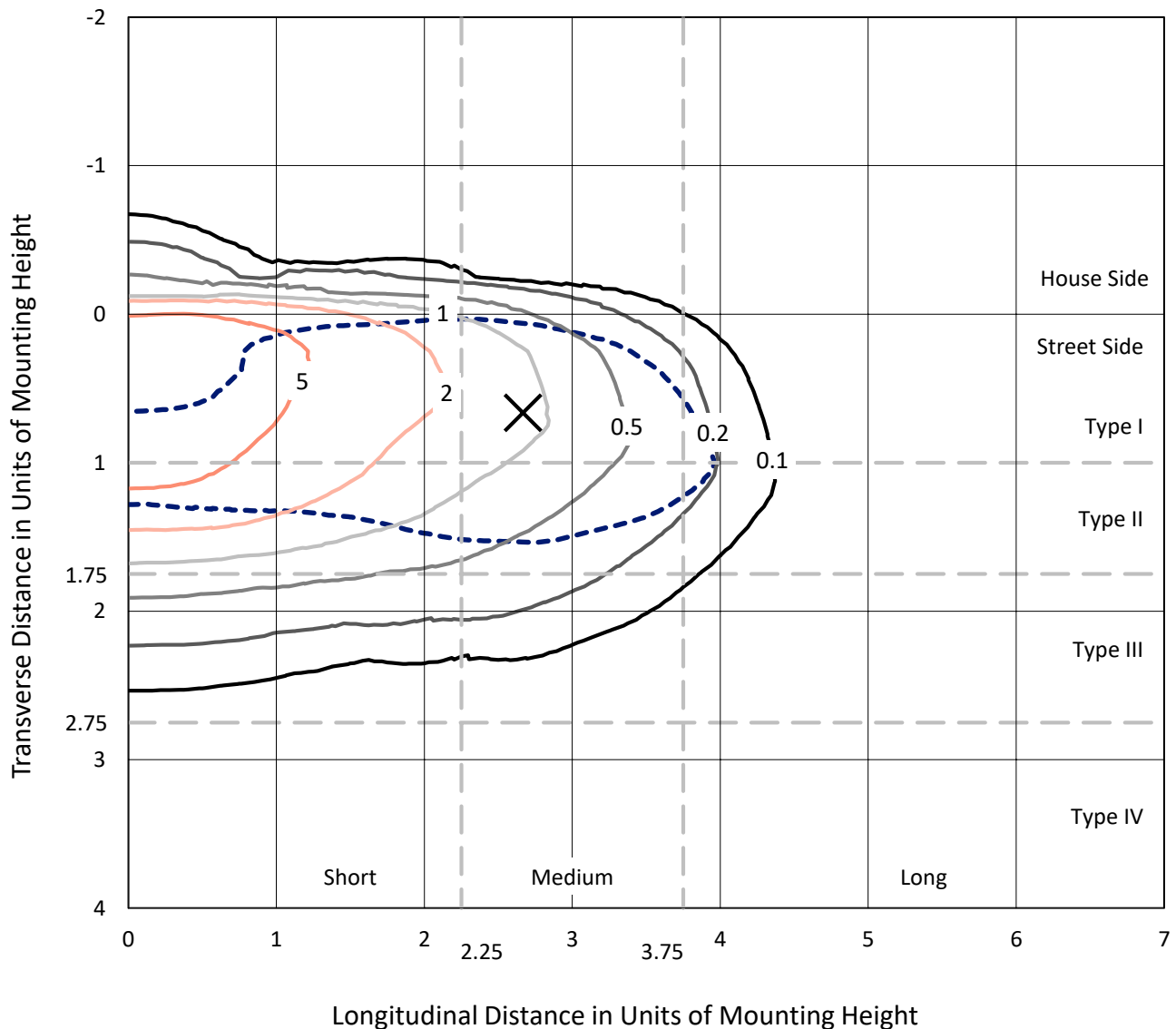


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

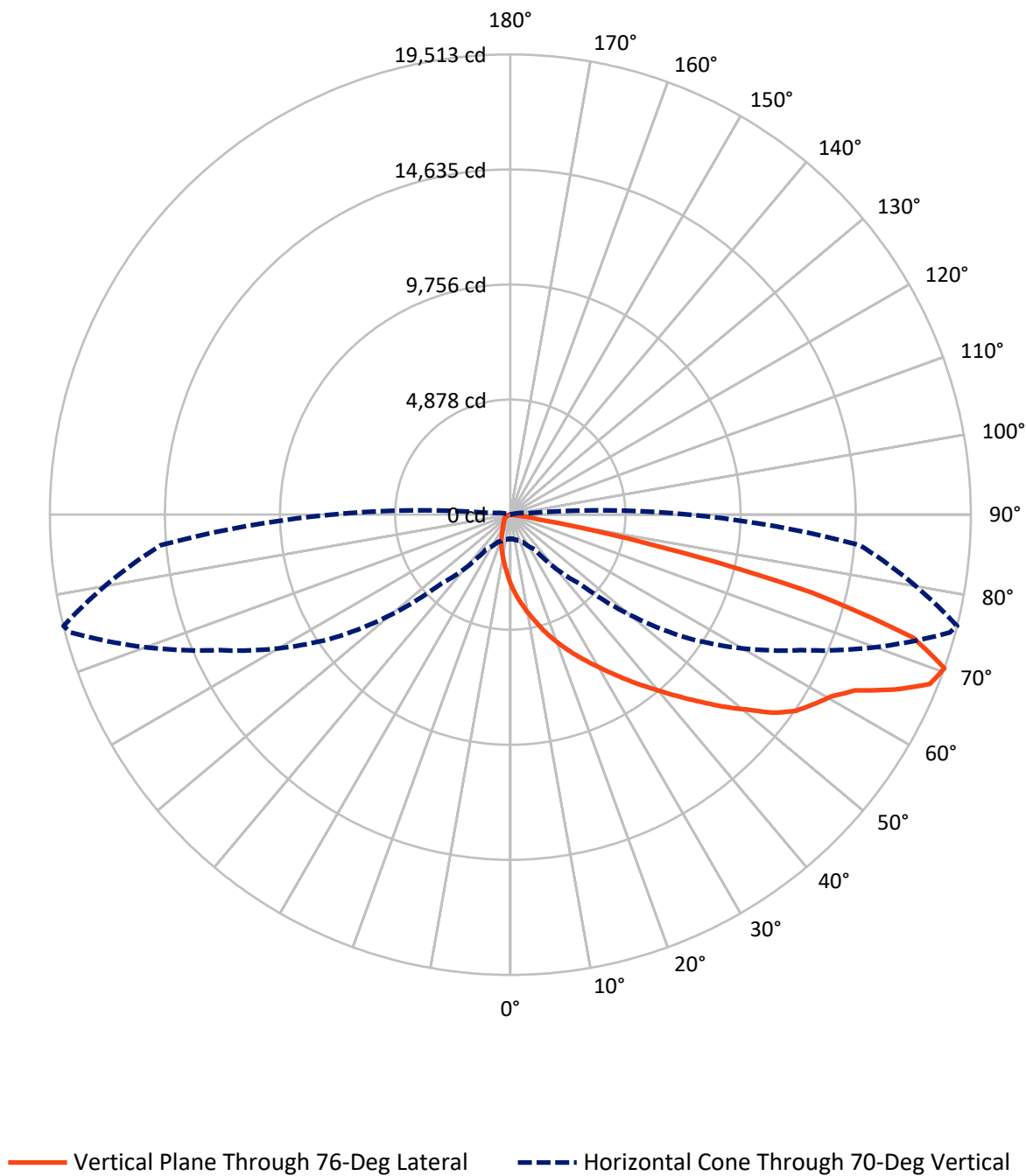


Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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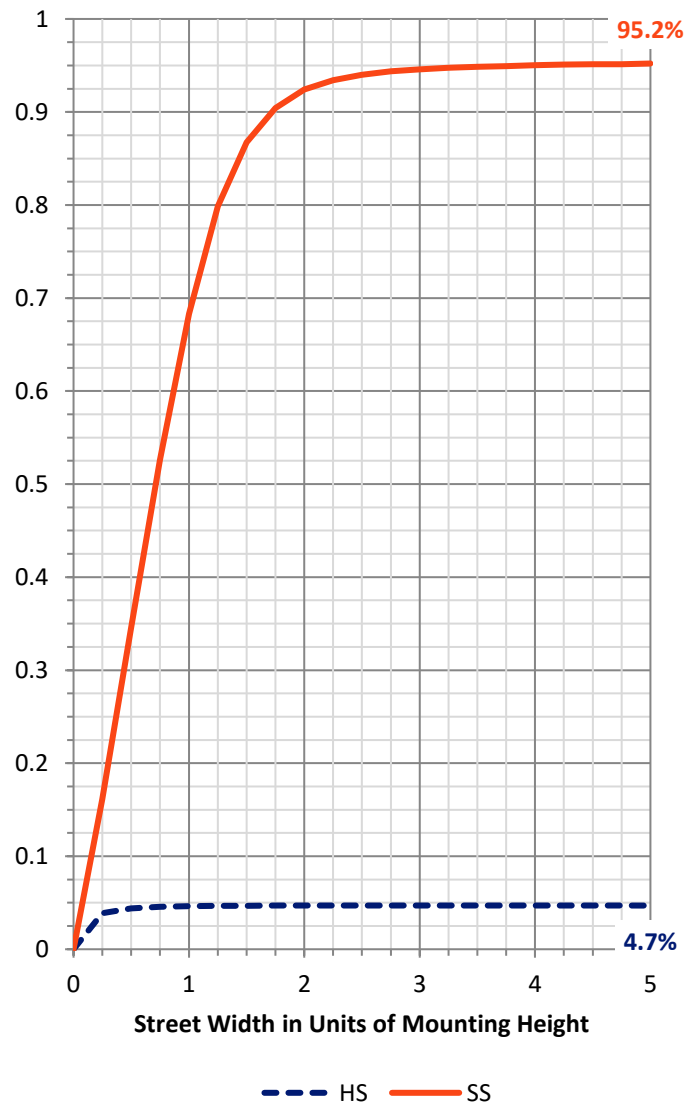
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1039.6	0.0	1039.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	21003.4	0.0	21003.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	22043.0	0.0	22043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	1.3
10°-20°	897.1	4.1
20°-30°	1670.8	7.6
30°-40°	2955.3	13.4
40°-50°	4519.3	20.5
50°-60°	5123.8	23.2
60°-70°	4392.4	19.9
70°-80°	2127.4	9.7
80°-90°	78.9	0.4
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°	22043.0	100.0
0°-180°	22043.0	100.0

Coefficient of Utilization



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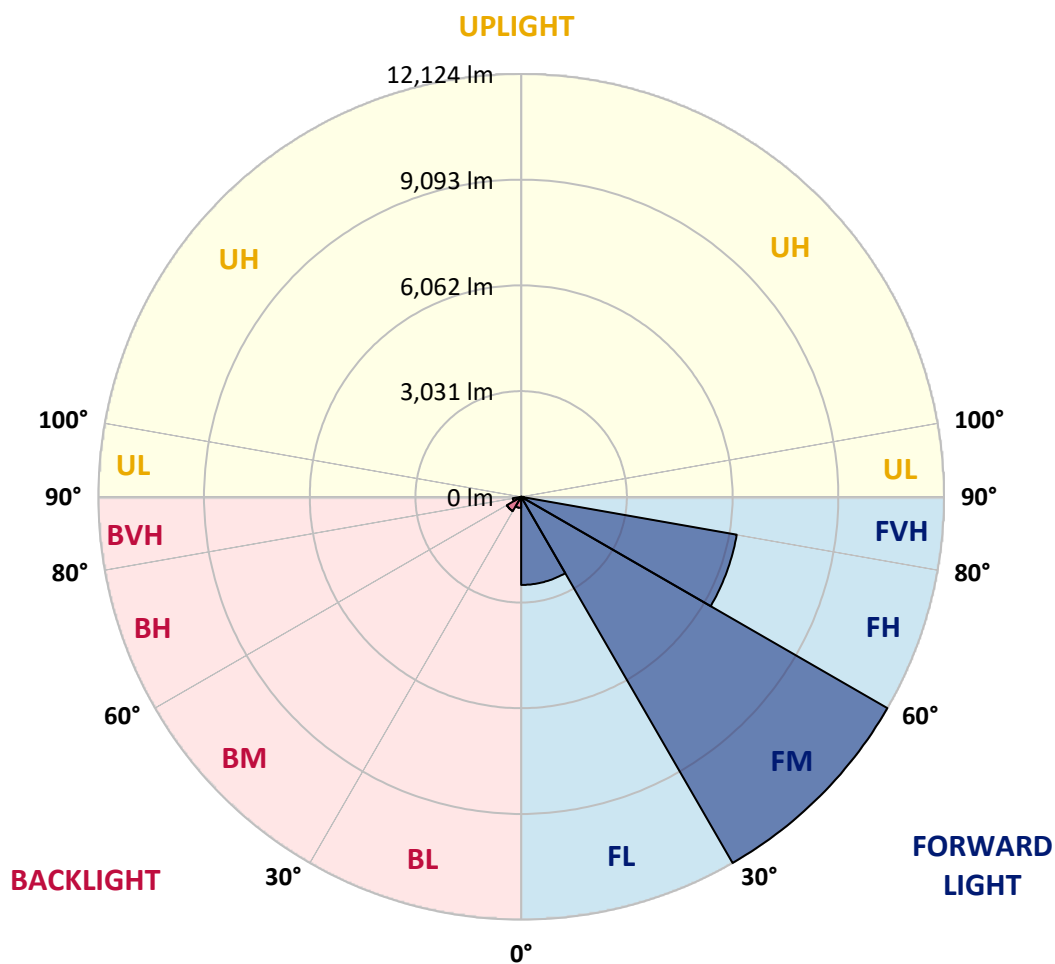
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2527.0	11.5			
FM	(30°-60°)	12123.8	55.0			
FH	(60°-80°)	6275.0	28.5			G3/7500
FVH	(80°-90°)	77.6	0.4			G1/100
BL	(0°-30°)	318.9	1.4	B1/500		
BM	(30°-60°)	474.6	2.2	B1/1000		
BH	(60°-80°)	244.8	1.1	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6
2.5°	4033.2	4011.2	3989.2	3904.8	3827.7	3758.0	3625.9	3453.4	3299.2	3266.2	3086.4
5°	4737.8	4712.1	4679.1	4594.7	4495.6	4378.2	4183.7	3919.4	3647.9	3589.2	3255.2
7.5°	5214.9	5192.9	5145.2	5104.8	5005.7	4892.0	4675.4	4367.2	3992.8	3919.4	3449.7
10°	5541.5	5526.9	5519.5	5486.5	5413.1	5321.4	5104.8	4781.9	4341.5	4257.1	3655.2
12.5°	5659.0	5659.0	5695.7	5750.7	5761.7	5732.4	5534.2	5211.3	4708.5	4620.4	3897.4
15°	5501.2	5519.5	5600.3	5776.4	5959.9	6081.0	5956.2	5655.3	5112.2	5016.7	4183.7
17.5°	5457.1	5475.5	5530.5	5684.7	5930.6	6253.5	6315.9	6084.7	5493.8	5413.1	4477.3
20°	5581.9	5600.3	5648.0	5780.1	5967.3	6293.9	6554.4	6499.4	5897.5	5813.1	4774.5
22.5°	5879.2	5890.2	5890.2	5992.9	6158.1	6400.3	6704.9	6892.1	6312.2	6220.5	5068.1
25°	6517.7	6495.7	6407.6	6356.3	6462.7	6660.9	6895.7	7237.0	6774.6	6649.9	5383.7
27.5°	7354.5	7427.9	7215.0	6969.1	6888.4	7002.2	7163.6	7541.6	7222.4	7090.2	5670.0
30°	8488.5	8459.1	8180.2	7827.9	7479.2	7438.9	7493.9	7802.2	7670.1	7545.3	5989.3
32.5°	9420.6	9475.7	9182.1	8752.7	8231.6	7985.7	7927.0	8114.1	8147.2	8066.4	6367.3
35°	10378.5	10437.2	10150.9	9673.8	9053.6	8642.6	8473.8	8499.5	8738.0	8635.3	6763.6
37.5°	11237.2	11288.6	11006.0	10517.9	9897.7	9394.9	9152.7	8954.5	9310.5	9218.8	7182.0
40°	11890.5	11897.8	11707.0	11270.3	10683.1	10161.9	9886.7	9497.7	9916.1	9853.7	7618.7
42.5°	12352.9	12367.6	12228.1	11853.8	11310.6	10826.2	10602.3	10139.9	10613.3	10558.3	8125.2
45°	12569.4	12595.1	12580.4	12235.4	11784.0	11365.7	11292.3	10822.5	11376.7	11325.3	8708.7
47.5°	12363.9	12363.9	12551.0	12503.3	12088.6	11809.7	11894.1	11534.5	12206.1	12158.4	9303.2
50°	11508.8	11519.8	11901.5	12448.3	12206.1	12143.7	12407.9	12231.8	12958.4	12987.8	10015.1
52.5°	9262.8	9244.5	10532.6	11582.2	12125.3	12294.2	12881.3	12943.7	13861.2	13949.3	10723.4
55°	6921.4	6910.4	8143.5	10048.2	11560.2	12217.1	13145.6	13578.6	14631.9	14686.9	11251.9
57.5°	5479.2	5449.8	6128.7	8099.5	10283.1	11872.1	13156.6	13699.7	15061.3	15156.7	11765.7
60°	4213.0	4187.4	4693.8	6026.0	8473.8	10954.6	12841.0	13707.1	15476.0	15644.8	12455.6
62.5°	3013.0	3042.3	3431.4	4323.1	6517.7	9659.2	12429.9	13809.8	16213.6	16404.4	13435.5
65°	2033.1	2018.4	2341.4	2943.3	4635.1	7916.0	11798.7	14026.3	17542.1	17876.1	14609.9
67.5°	1412.9	1423.9	1570.7	1915.7	2943.3	6077.3	10749.1	14147.5	18914.6	19175.2	15431.9
70°	1020.2	1034.9	1115.6	1288.1	1798.2	4121.3	9086.7	13593.3	19285.3	19512.8	14859.4
72.5°	671.6	701.0	822.1	913.8	1148.7	2579.9	6693.9	11710.6	17688.9	17857.7	12466.6
75°	363.3	370.7	528.5	682.6	818.4	1607.4	3992.8	7897.6	13233.6	13178.6	8220.6
77.5°	282.6	293.6	326.6	488.1	550.5	884.4	1578.1	3567.1	6268.2	6099.4	2803.8
80°	172.5	179.8	227.5	289.9	385.3	513.8	462.4	968.9	1273.5	1192.7	411.0
82.5°	102.8	110.1	135.8	242.2	304.6	242.2	161.5	234.9	238.5	234.9	102.8
85°	18.3	18.3	95.4	168.8	161.5	69.7	95.4	77.1	69.7	73.4	22.0
87.5°	0.0	0.0	36.7	51.4	73.4	25.7	36.7	18.3	18.3	18.3	11.0
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°	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6	2950.6
2.5°	2976.3	2851.5	2594.6	2370.8	2146.9	1981.7	1857.0	1728.5	1684.5	1629.4	1600.1
5°	3027.7	2781.8	2271.7	1864.3	1519.3	1255.1	1086.3	983.5	917.5	869.8	858.8
7.5°	3104.7	2726.7	2011.1	1460.6	1082.6	818.4	678.9	609.2	572.5	550.5	543.1
10°	3196.5	2679.0	1754.2	1137.7	763.3	576.2	499.1	469.7	455.1	447.7	444.1
12.5°	3324.9	2660.7	1537.7	877.1	576.2	473.4	433.0	414.7	403.7	392.7	389.0
15°	3493.7	2668.0	1339.5	678.9	477.1	422.0	389.0	370.7	356.0	345.0	345.0
17.5°	3669.9	2679.0	1145.0	550.5	433.0	385.3	348.6	323.0	311.9	300.9	297.3
20°	3835.0	2675.4	957.8	469.7	392.7	345.0	308.3	282.6	264.2	253.2	253.2
22.5°	3992.8	2653.3	781.7	422.0	359.6	304.6	264.2	238.5	223.9	212.9	212.9
25°	4161.7	2609.3	638.6	385.3	319.3	267.9	227.5	201.8	190.8	179.8	179.8
27.5°	4293.8	2535.9	521.1	352.3	282.6	231.2	194.5	172.5	161.5	154.1	154.1
30°	4436.9	2429.5	433.0	315.6	245.9	198.2	165.1	146.8	135.8	132.1	132.1
32.5°	4594.7	2312.0	370.7	278.9	209.2	168.8	139.5	128.4	117.4	113.8	113.8
35°	4778.2	2209.3	334.0	242.2	183.5	143.1	121.1	110.1	102.8	102.8	102.8
37.5°	4987.4	2102.9	300.9	212.9	157.8	121.1	102.8	99.1	95.4	91.7	91.7
40°	5214.9	1989.1	271.6	187.2	135.8	102.8	88.1	88.1	84.4	84.4	84.4
42.5°	5471.8	1890.0	245.9	165.1	117.4	88.1	77.1	77.1	73.4	73.4	73.4
45°	5750.7	1798.2	223.9	146.8	102.8	77.1	69.7	66.1	62.4	62.4	62.4
47.5°	6081.0	1746.9	205.5	128.4	88.1	66.1	58.7	55.0	51.4	47.7	47.7
50°	6503.1	1768.9	187.2	106.4	77.1	55.0	47.7	44.0	40.4	36.7	36.7
52.5°	6837.0	1757.9	161.5	91.7	62.4	44.0	36.7	33.0	29.4	25.7	25.7
55°	7079.2	1713.8	139.5	77.1	47.7	36.7	29.4	22.0	18.3	18.3	18.3
57.5°	7317.8	1669.8	117.4	62.4	36.7	25.7	18.3	14.7	14.7	14.7	14.7
60°	7688.4	1607.4	102.8	51.4	29.4	18.3	11.0	11.0	7.3	7.3	7.3
62.5°	8139.8	1530.3	84.4	44.0	22.0	14.7	7.3	7.3	0.0	0.0	0.0
65°	8635.3	1394.6	69.7	33.0	18.3	11.0	7.3	0.0	0.0	0.0	0.0
67.5°	8521.5	1119.3	58.7	22.0	14.7	7.3	3.7	0.0	0.0	0.0	0.0
70°	7538.0	756.0	47.7	18.3	11.0	7.3	3.7	0.0	0.0	0.0	0.0
72.5°	5904.9	447.7	33.0	14.7	7.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	3780.0	223.9	22.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	1266.1	110.1	14.7	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	179.8	36.7	7.3	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.4	14.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.7	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	3.7	0.0	0.0	0.0	0.0	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)