

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: P841527

Luminaire Tested: **ARCH4-190-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20193 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 190
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: 24 FT



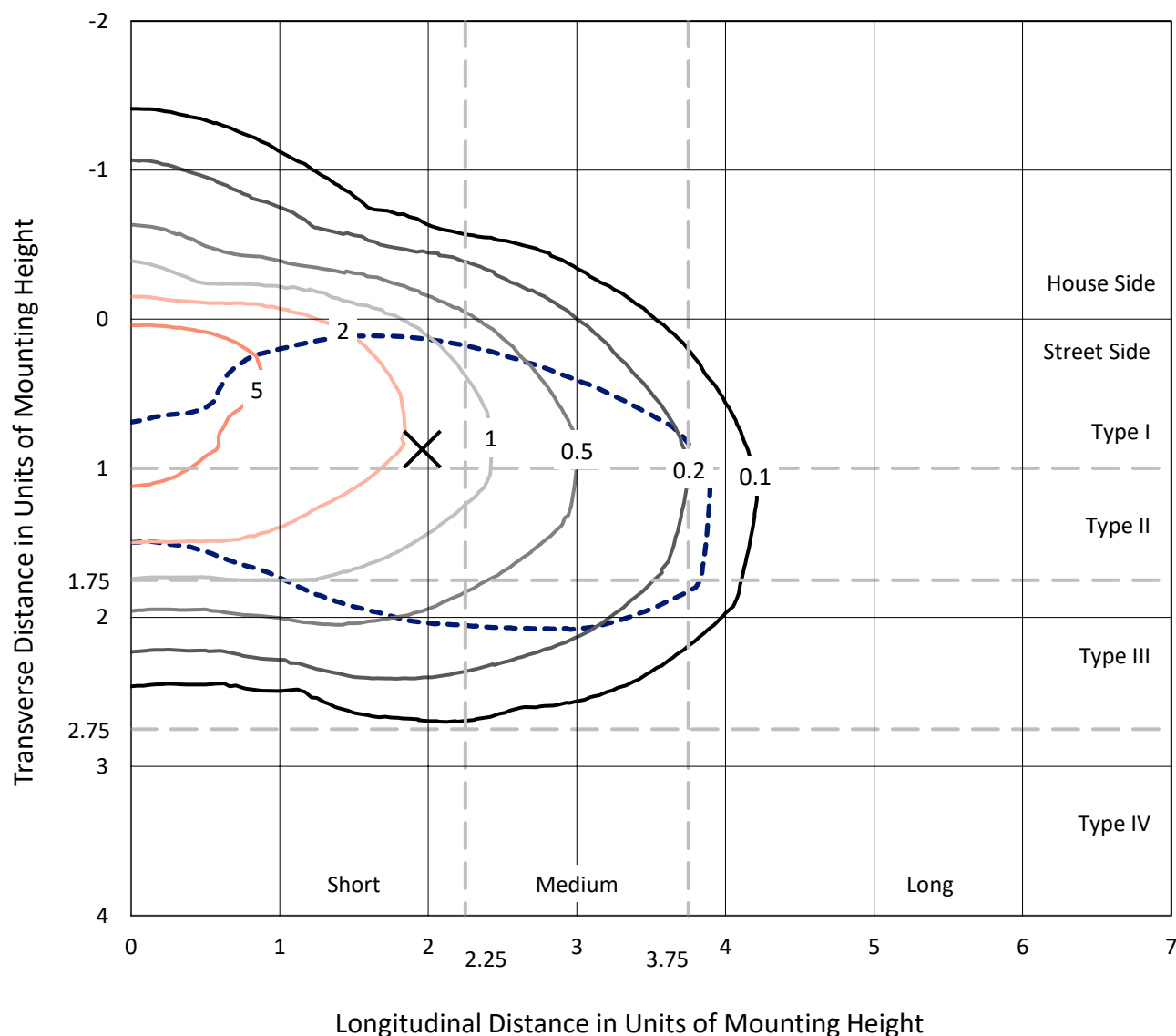
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

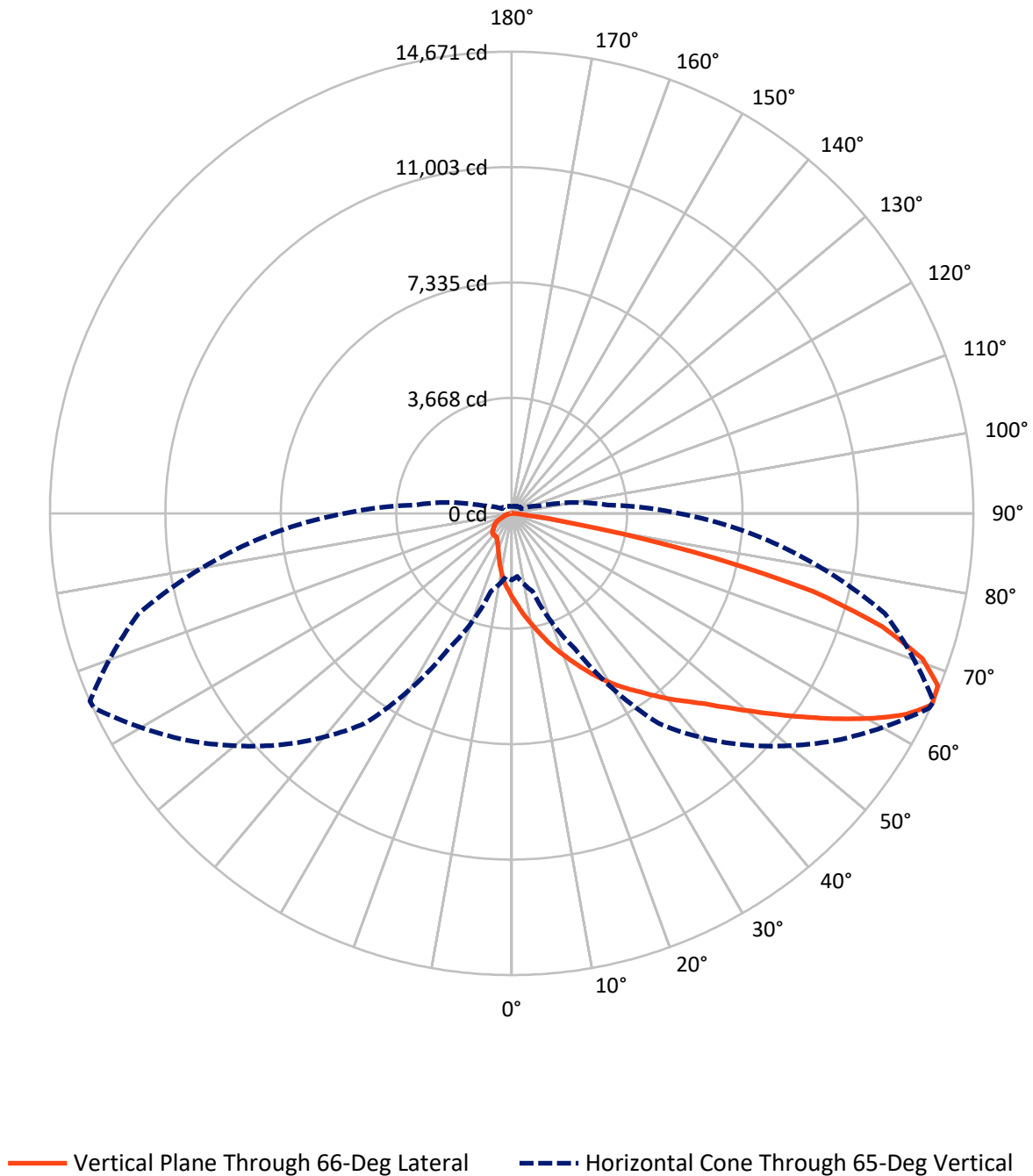


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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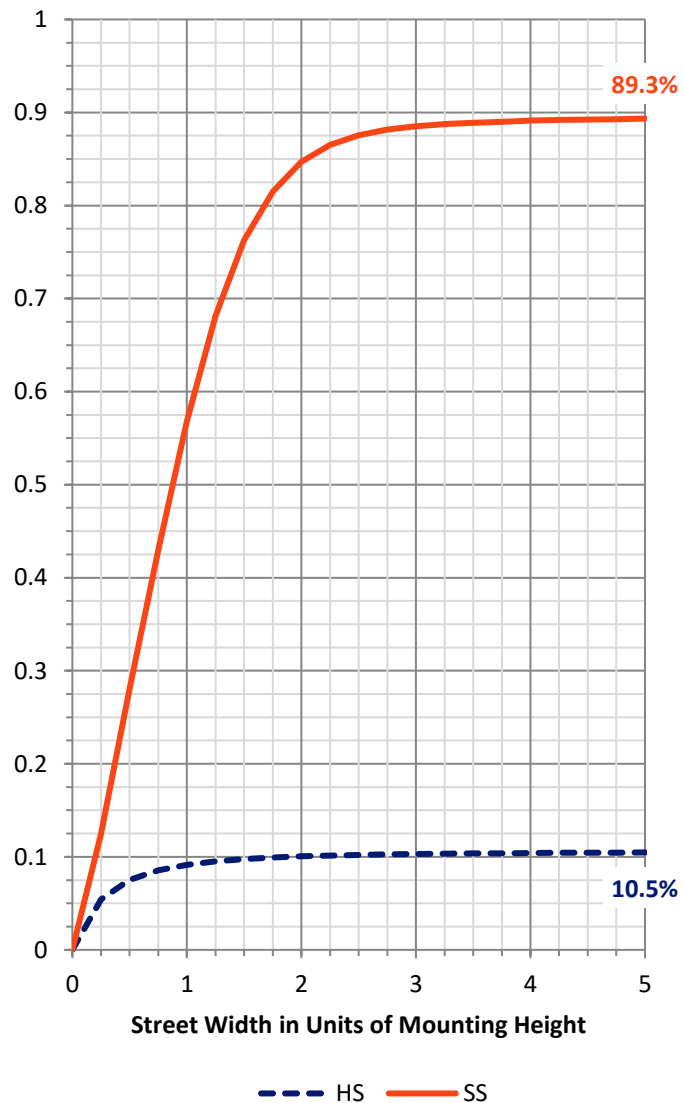
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.9	0.0	2135.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	18057.1	0.0	18057.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	20193.0	0.0	20193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.3
10°-20°	859.7	4.3
20°-30°	1555.5	7.7
30°-40°	2432.3	12.0
40°-50°	3689.8	18.3
50°-60°	4688.1	23.2
60°-70°	4380.5	21.7
70°-80°	2177.1	10.8
80°-90°	146.3	0.7
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°	20193.0	100.0
0°-180°	20193.0	100.0

Coefficient of Utilization



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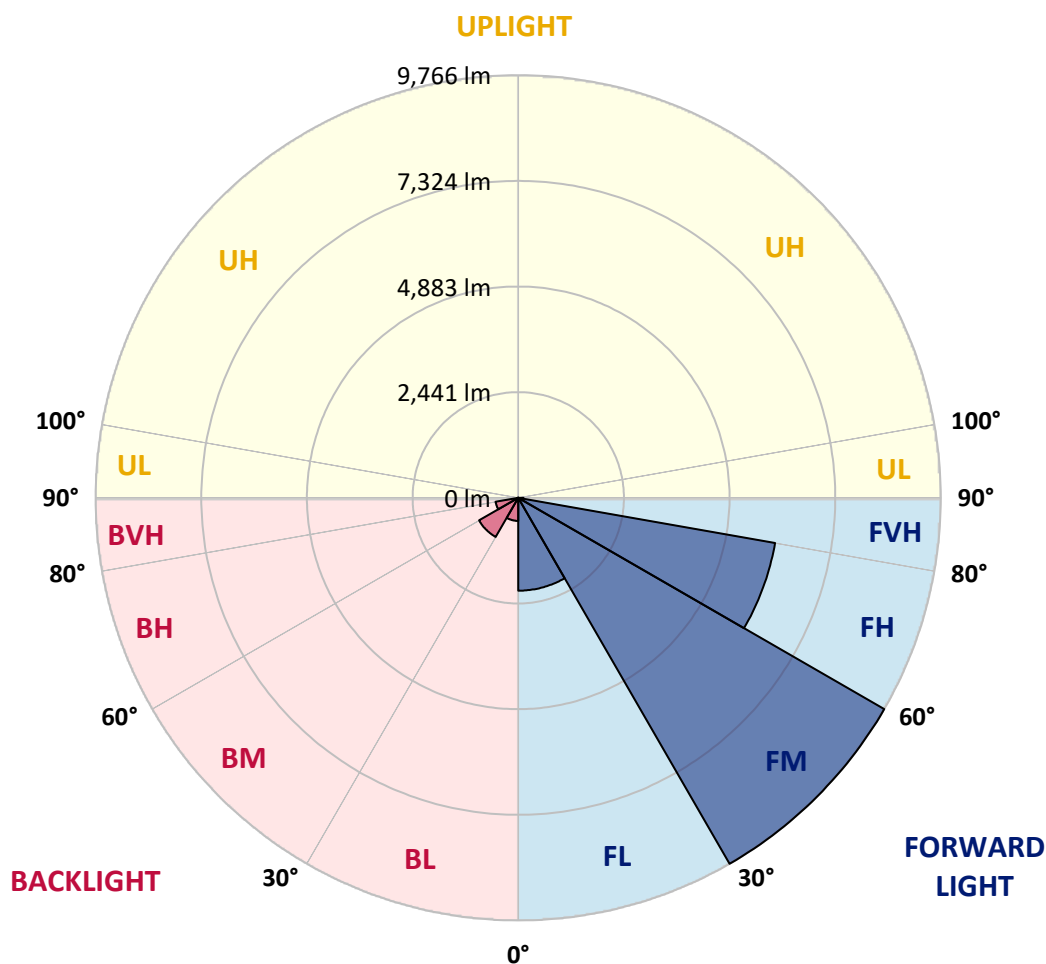
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2145.5	10.6			
FM	(30°-60°)	9765.6	48.4			
FH	(60°-80°)	6025.7	29.8			G3/7500
FVH	(80°-90°)	120.4	0.6			G2/225
BL	(0°-30°)	533.4	2.6	B2/1000		
BM	(30°-60°)	1044.7	5.2	B2/2500		
BH	(60°-80°)	531.9	2.6	B2/1000		G2/1000
BVH	(80°-90°)	25.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4
2.5°	3121.4	3146.8	3159.5	3163.7	3066.3	3024.0	2981.6	2884.2	2863.0	2808.0	2736.0
5°	3671.9	3705.8	3697.4	3680.4	3561.8	3426.3	3316.2	3134.1	3104.4	2973.1	2812.2
7.5°	4214.1	4243.7	4235.2	4171.7	4040.4	3849.8	3667.7	3400.9	3358.5	3146.8	2888.4
10°	4667.2	4692.6	4688.4	4624.9	4468.2	4235.2	4015.0	3659.2	3608.4	3307.7	2952.0
12.5°	5039.9	5073.8	5069.6	5027.2	4887.5	4633.3	4383.5	3955.7	3892.2	3502.5	3040.9
15°	5332.2	5374.5	5374.5	5357.6	5260.2	5048.4	4764.6	4281.8	4205.6	3727.0	3151.0
17.5°	5510.0	5543.9	5573.6	5603.2	5535.5	5374.5	5116.2	4607.9	4527.5	3947.2	3265.4
20°	5603.2	5637.1	5658.3	5721.8	5734.5	5654.0	5450.7	4929.8	4845.1	4197.1	3396.7
22.5°	5755.7	5785.3	5789.6	5844.6	5870.0	5891.2	5764.2	5247.5	5179.7	4472.4	3544.9
25°	6009.8	6043.7	6031.0	6056.4	6060.6	6086.0	6073.3	5611.7	5543.9	4785.8	3722.8
27.5°	6335.9	6378.3	6369.8	6344.4	6306.3	6285.1	6340.1	5980.2	5916.6	5099.2	3904.9
30°	6687.4	6738.3	6725.6	6674.7	6573.1	6484.1	6560.4	6327.4	6268.1	5421.1	4108.2
32.5°	7043.2	7102.5	7098.3	7013.5	6839.9	6687.4	6801.8	6653.6	6611.2	5768.4	4328.4
35°	7276.1	7352.4	7343.9	7293.1	7068.6	6937.3	7077.1	6988.1	6958.5	6191.9	4646.1
37.5°	7653.1	7733.5	7661.5	7534.5	7276.1	7208.4	7377.8	7365.1	7343.9	6640.8	4980.6
40°	8567.9	8686.5	8495.9	7974.9	7551.4	7492.1	7733.5	7784.4	7763.2	7085.5	5281.3
42.5°	9525.0	9702.9	9406.5	8686.5	8051.2	7835.2	8123.2	8195.2	8169.8	7466.7	5552.4
45°	10105.3	10181.5	9885.0	9326.0	8936.3	8250.2	8538.2	8656.8	8635.6	7924.1	5899.7
47.5°	10579.6	10550.0	10211.1	9834.2	9906.2	8834.7	9008.3	9241.3	9224.3	8428.1	6280.9
50°	10681.3	10613.5	10478.0	10240.8	10431.4	9427.6	9503.9	9906.2	9889.3	8987.2	6666.3
52.5°	9965.5	9876.6	10245.0	10444.1	10380.6	9859.6	10050.2	10634.7	10626.2	9592.8	7034.7
55°	8178.2	8106.2	9097.3	10126.4	10325.5	10164.6	10655.8	11392.8	11439.4	10236.6	7369.3
57.5°	6433.3	6357.1	7331.2	9330.2	10122.2	10444.1	11363.1	12261.0	12320.3	10935.4	7687.0
60°	5128.9	5014.5	5759.9	8076.6	9741.0	10660.1	12045.0	13213.9	13222.4	11574.9	7881.8
62.5°	3485.6	3358.5	4184.4	6488.4	9101.5	10694.0	12570.2	14035.6	14069.4	12053.5	7915.7
65°	2117.6	2011.7	2570.8	4739.2	8157.1	10406.0	12578.6	14641.2	14670.9	12273.7	7712.4
67.5°	1228.2	1185.9	1469.6	2952.0	6590.0	9630.9	12049.2	14548.0	14603.1	12180.5	7250.7
70°	715.8	711.5	817.4	1461.2	4650.3	8093.5	10867.6	13764.5	13845.0	11693.5	6543.4
72.5°	525.2	533.6	576.0	783.5	2693.6	5827.7	9203.2	12189.0	12311.8	10740.6	5535.5
75°	415.1	419.3	457.4	533.6	1414.6	3295.0	6895.0	9783.4	9880.8	9042.2	4324.2
77.5°	309.2	317.6	347.3	376.9	656.5	1512.0	3879.5	6026.7	5865.8	4963.7	2088.0
80°	224.5	245.6	258.3	271.1	347.3	584.5	1164.7	2100.7	2083.7	2168.4	986.8
82.5°	144.0	160.9	173.6	182.1	207.5	279.5	347.3	470.1	508.2	842.8	393.9
85°	63.5	72.0	80.5	97.4	88.9	97.4	144.0	93.2	80.5	127.1	72.0
87.5°	0.0	0.0	12.7	21.2	16.9	8.5	25.4	16.9	12.7	12.7	12.7
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°	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4	2672.4
2.5°	2697.8	2651.3	2553.8	2460.7	2405.6	2333.6	2270.1	2210.8	2206.6	2189.6	2160.0
5°	2731.7	2642.8	2460.7	2287.0	2155.7	2016.0	1897.4	1804.2	1770.3	1744.9	1711.0
7.5°	2765.6	2625.8	2354.8	2100.7	1893.1	1698.3	1558.6	1431.5	1393.4	1359.5	1338.3
10°	2778.3	2596.2	2232.0	1893.1	1622.1	1414.6	1266.3	1173.2	1139.3	1122.3	1109.6
12.5°	2816.4	2579.3	2117.6	1698.3	1384.9	1194.3	1088.5	1033.4	1020.7	1008.0	995.3
15°	2867.3	2579.3	2003.3	1507.7	1198.6	1046.1	982.6	944.5	936.0	931.8	923.3
17.5°	2922.3	2579.3	1893.1	1346.8	1063.0	948.7	902.1	880.9	876.7	872.5	868.2
20°	2998.5	2583.5	1774.6	1207.0	965.6	876.7	838.6	813.2	808.9	804.7	804.7
22.5°	3074.8	2592.0	1660.2	1101.2	902.1	821.6	775.0	749.6	741.2	741.2	741.2
25°	3172.2	2617.4	1554.3	1012.2	847.0	770.8	711.5	690.3	686.1	686.1	681.9
27.5°	3286.5	2647.0	1461.2	944.5	792.0	711.5	652.2	631.0	622.6	622.6	618.3
30°	3409.4	2676.7	1384.9	893.6	736.9	652.2	597.2	571.8	563.3	567.5	563.3
32.5°	3544.9	2719.0	1325.6	859.8	686.1	601.4	550.6	520.9	516.7	516.7	512.5
35°	3773.6	2837.6	1317.2	842.8	643.8	563.3	512.5	482.8	478.6	478.6	474.3
37.5°	4019.2	2973.1	1355.3	834.3	609.9	529.4	482.8	453.2	448.9	448.9	448.9
40°	4226.8	3074.8	1397.6	834.3	588.7	499.8	457.4	432.0	432.0	432.0	432.0
42.5°	4366.5	3083.3	1389.2	834.3	571.8	478.6	440.5	415.1	415.1	419.3	415.1
45°	4574.1	3125.6	1355.3	821.6	559.1	461.6	423.5	402.3	398.1	402.3	402.3
47.5°	4819.7	3201.8	1321.4	770.8	554.8	444.7	410.8	385.4	381.2	385.4	381.2
50°	5052.6	3269.6	1304.5	703.0	546.3	427.8	393.9	368.5	364.2	368.5	364.2
52.5°	5247.5	3299.2	1274.8	656.5	525.2	410.8	376.9	351.5	343.1	347.3	347.3
55°	5404.2	3290.8	1232.5	618.3	487.1	393.9	355.8	334.6	321.9	321.9	317.6
57.5°	5548.2	3295.0	1194.3	580.2	444.7	368.5	338.8	313.4	296.5	292.2	288.0
60°	5603.2	3273.8	1126.6	529.4	402.3	347.3	317.6	288.0	271.1	266.8	262.6
62.5°	5527.0	3197.6	1037.6	440.5	364.2	321.9	296.5	266.8	249.9	245.6	241.4
65°	5311.0	3053.6	902.1	347.3	330.3	292.2	271.1	249.9	228.7	220.2	216.0
67.5°	4942.5	2846.1	732.7	279.5	292.2	266.8	254.1	228.7	203.3	194.8	190.6
70°	4417.3	2570.8	550.6	237.2	258.3	237.2	228.7	203.3	182.1	173.6	169.4
72.5°	3680.4	2126.1	385.4	203.3	224.5	207.5	199.1	182.1	160.9	148.2	148.2
75°	2782.5	1524.7	254.1	173.6	186.4	177.9	165.2	152.5	139.8	131.3	127.1
77.5°	1198.6	592.9	156.7	131.3	152.5	148.2	131.3	122.8	118.6	110.1	110.1
80°	516.7	241.4	97.4	97.4	110.1	105.9	101.6	93.2	93.2	88.9	84.7
82.5°	190.6	97.4	59.3	72.0	80.5	72.0	72.0	72.0	72.0	67.8	67.8
85°	46.6	29.6	29.6	42.4	46.6	42.4	46.6	42.4	42.4	42.4	38.1
87.5°	12.7	12.7	16.9	16.9	16.9	16.9	16.9	12.7	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)