

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: P841910

Luminaire Tested: **ARCH4-240-750-U-T2R-HSS**

Issue Date: 5/27/2024

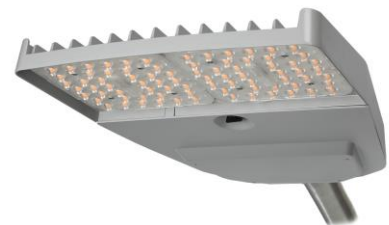
Test Information

Test Method: LM-79-08
Report Number: P841910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-240-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26090 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 240.2
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



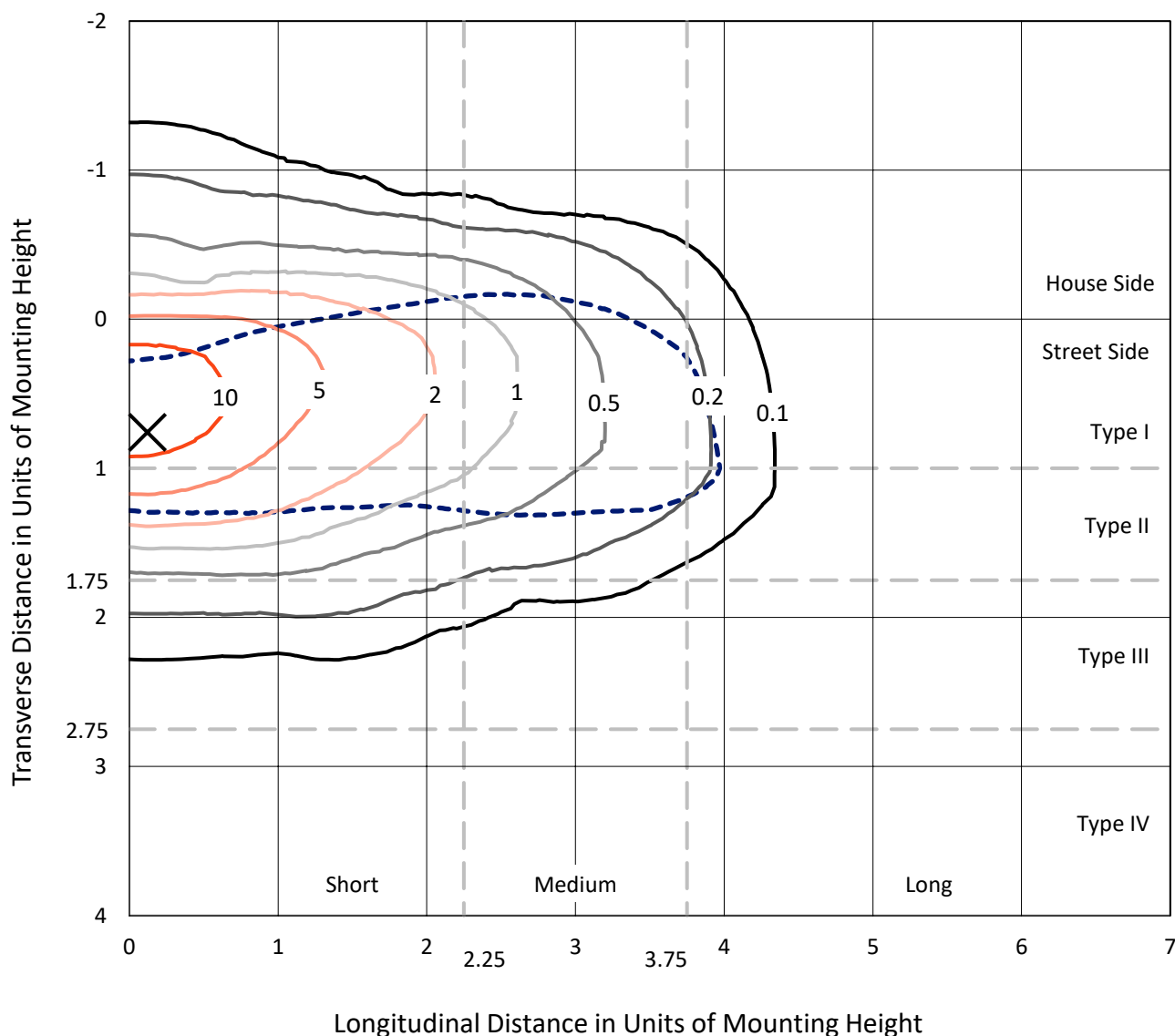
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

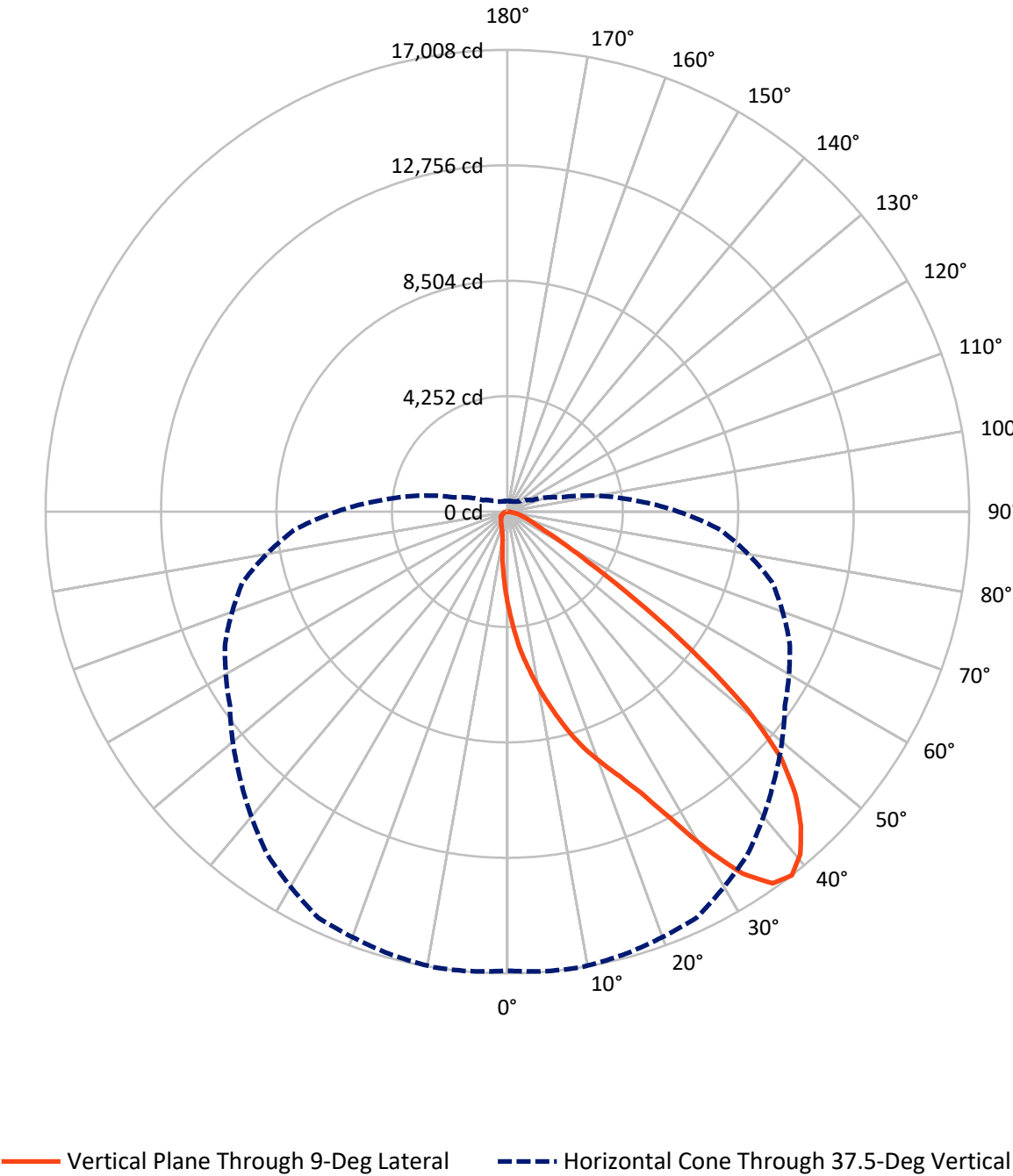


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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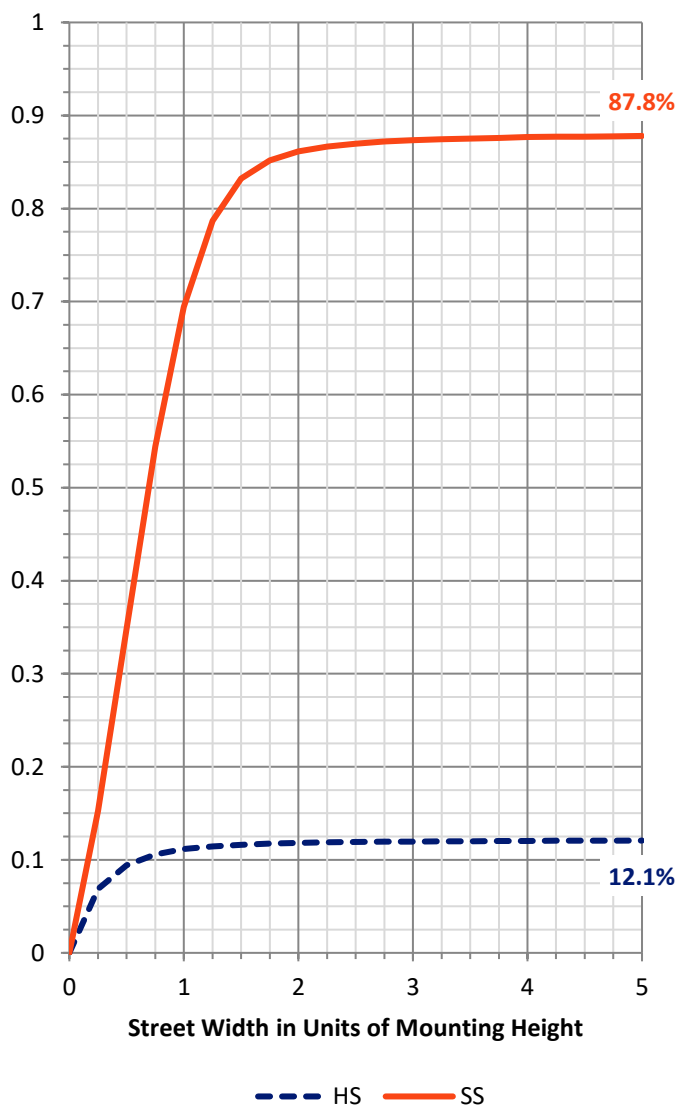
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3173.0	0.0	3173.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	22917.0	0.0	22917.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	26090.0	0.0	26090.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	1.3
10°-20°	1204.9	4.6
20°-30°	2475.7	9.5
30°-40°	4376.0	16.8
40°-50°	5813.2	22.3
50°-60°	5513.4	21.1
60°-70°	4206.3	16.1
70°-80°	2039.2	7.8
80°-90°	114.8	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°	26090.0	100.0
0°-180°	26090.0	100.0

Coefficient of Utilization



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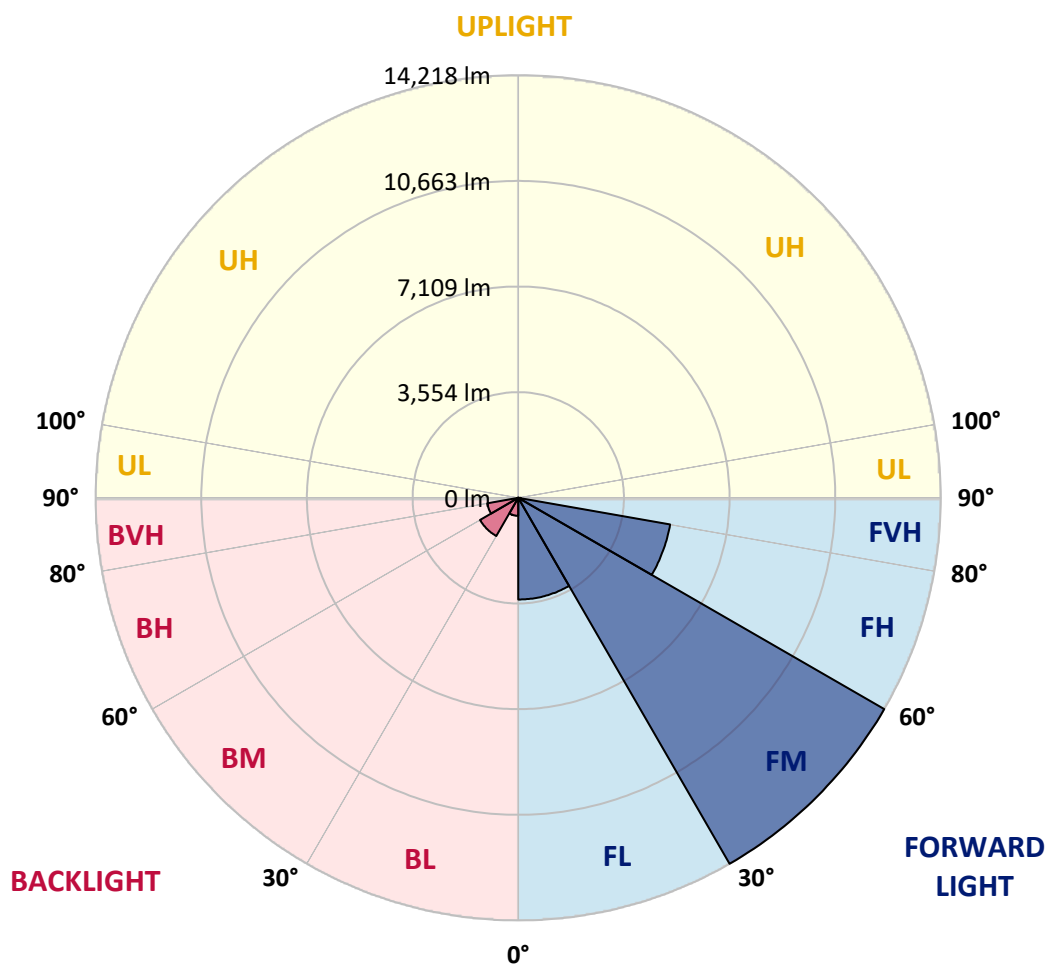
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3421.7	13.1			
FM	(30°-60°)	14217.8	54.5			
FH	(60°-80°)	5186.6	19.9			G3/7500
FVH	(80°-90°)	90.9	0.3			G1/100
BL	(0°-30°)	605.5	2.3	B2/1000		
BM	(30°-60°)	1484.8	5.7	B2/2500		
BH	(60°-80°)	1058.8	4.1	B3/2500		G3/2500
BVH	(80°-90°)	23.9	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8
2.5°	4273.5	4198.5	4284.2	4273.5	4198.5	4150.3	4000.4	3952.2	3775.5	3646.9	3534.5
5°	5151.8	5076.8	5151.8	5130.3	5023.2	4905.4	4659.1	4498.4	4182.5	3904.0	3652.3
7.5°	5880.1	5880.1	5912.2	5917.6	5789.0	5606.9	5301.7	5060.7	4616.2	4187.8	3786.2
10°	6667.3	6672.6	6742.3	6694.1	6522.7	6276.4	5890.8	5585.5	5050.0	4487.7	3914.7
12.5°	7508.1	7513.4	7534.8	7513.4	7309.9	6994.0	6528.1	6126.4	5510.6	4830.4	4091.4
15°	8348.8	8354.2	8381.0	8343.5	8118.6	7749.0	7218.9	6726.2	5997.9	5216.0	4305.6
17.5°	9136.1	9146.8	9168.2	9120.0	8884.4	8445.2	7904.4	7309.9	6517.3	5628.4	4546.6
20°	9843.0	9853.7	9869.7	9805.5	9569.8	9130.7	8547.0	7925.8	7047.5	6051.4	4809.0
22.5°	10555.2	10565.9	10592.7	10507.0	10244.6	9741.2	9168.2	8525.6	7609.8	6517.3	5114.3
25°	11465.6	11476.3	11497.7	11374.6	11015.8	10426.7	9821.5	9162.8	8220.3	7042.2	5489.1
27.5°	12799.1	12788.3	12788.3	12563.4	11947.6	11181.8	10480.2	9810.8	8879.0	7604.5	5901.5
30°	14448.5	14421.7	14405.6	14100.4	13222.1	12033.3	11155.0	10416.0	9510.9	8198.9	6346.0
32.5°	15926.5	15926.5	15894.4	15573.1	14641.3	13179.3	11872.6	11005.0	10121.4	8798.7	6806.5
35°	16799.4	16836.9	16820.8	16579.9	15899.7	14411.0	12841.9	11711.9	10764.1	9425.2	7358.1
37.5°	16917.2	16992.2	17008.3	16863.7	16504.9	15417.8	13918.3	12477.7	11470.9	10100.0	7893.6
40°	16440.6	16601.3	16601.3	16579.9	16451.3	15894.4	14823.3	13366.7	12199.3	10801.5	8434.5
42.5°	15707.0	15873.0	15851.5	15931.9	15899.7	15781.9	15332.1	14196.8	12927.6	11524.5	8927.2
45°	14748.4	14919.7	14876.9	15021.5	15085.7	15214.3	15278.5	14775.1	13645.2	12311.7	9478.8
47.5°	13211.4	13500.6	13564.9	13821.9	14089.7	14491.3	14796.6	14984.0	14314.6	13157.9	10078.6
50°	10940.8	11347.8	11476.3	12017.2	12750.9	13580.9	14073.6	14726.9	14785.9	14025.4	10726.6
52.5°	7834.7	8306.0	8504.1	9393.1	10903.3	12349.2	13238.2	14159.3	14967.9	14855.5	11428.1
55°	5066.1	5467.7	5660.5	6495.9	8504.1	10774.8	12252.8	13425.6	14866.2	15615.9	12231.4
57.5°	3122.1	3352.4	3480.9	4198.5	6046.1	8755.8	10962.2	12750.9	14555.6	16274.6	13066.8
60°	2104.6	2238.5	2302.8	2640.1	4107.5	6544.1	9189.6	12044.0	14148.6	16719.1	13827.3
62.5°	1397.7	1440.6	1504.8	1713.7	2709.8	4594.8	7058.2	10780.1	13843.3	16745.9	14389.6
65°	1081.8	1103.2	1130.0	1221.0	1670.8	3213.2	4964.3	8734.4	13388.1	16178.2	14566.3
67.5°	851.5	872.9	905.0	953.2	1210.3	2179.6	3379.2	6399.5	12456.3	15289.2	14277.1
70°	669.4	685.5	706.9	749.7	942.5	1579.8	2233.1	4252.1	10576.6	14443.1	13366.7
72.5°	530.2	546.2	567.7	610.5	765.8	1156.7	1531.6	2650.8	8156.0	13409.6	11615.5
75°	417.7	428.4	444.5	487.3	615.9	899.7	1038.9	1585.2	5542.7	11519.1	9050.4
77.5°	208.9	257.1	294.5	337.4	449.8	621.2	690.8	878.3	2340.2	5912.2	4316.3
80°	123.2	149.9	160.7	187.4	294.5	374.9	374.9	353.4	739.0	2270.6	1761.9
82.5°	69.6	96.4	101.7	107.1	176.7	214.2	171.4	128.5	149.9	760.4	514.1
85°	21.4	32.1	37.5	42.8	58.9	64.3	58.9	53.6	42.8	75.0	48.2
87.5°	0.0	0.0	0.0	0.0	5.4	10.7	10.7	10.7	16.1	16.1	16.1
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°	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8	3448.8
2.5°	3470.2	3400.6	3266.7	3143.5	3025.7	2940.0	2859.7	2784.7	2731.2	2688.3	2683.0
5°	3518.4	3379.2	3122.1	2881.1	2661.6	2479.5	2324.2	2201.0	2110.0	2045.7	2040.4
7.5°	3582.7	3368.5	2977.5	2618.7	2292.0	2029.6	1804.7	1638.7	1520.9	1472.7	1435.2
10°	3636.2	3357.7	2832.9	2356.3	1927.9	1595.9	1328.1	1162.1	1076.4	1044.3	1028.2
12.5°	3727.3	3368.5	2709.8	2115.3	1611.9	1221.0	1017.5	926.5	889.0	862.2	856.8
15°	3861.1	3416.7	2591.9	1879.7	1290.6	985.4	867.6	808.6	771.2	765.8	760.4
17.5°	3995.0	3459.5	2484.8	1638.7	1071.1	856.8	776.5	728.3	701.5	696.2	696.2
20°	4150.3	3513.0	2367.0	1408.4	915.7	771.2	706.9	669.4	637.3	631.9	631.9
22.5°	4332.4	3588.0	2254.6	1204.9	814.0	706.9	653.3	610.5	583.7	578.4	578.4
25°	4578.7	3700.5	2163.5	1055.0	744.4	653.3	605.1	567.7	546.2	535.5	535.5
27.5°	4851.9	3855.8	2099.3	963.9	696.2	610.5	562.3	530.2	508.7	498.0	498.0
30°	5157.1	4027.1	2056.4	926.5	669.4	573.0	530.2	498.0	471.3	465.9	465.9
32.5°	5494.5	4225.3	2029.6	931.8	664.1	546.2	498.0	465.9	444.5	433.8	433.8
35°	5869.4	4444.9	2013.6	963.9	674.8	524.8	471.3	439.1	417.7	407.0	407.0
37.5°	6287.1	4701.9	2013.6	996.1	701.5	519.5	444.5	412.4	396.3	385.6	385.6
40°	6678.0	4975.0	2035.0	1033.6	728.3	519.5	423.1	396.3	374.9	364.2	364.2
42.5°	6983.2	5130.3	2051.1	1071.1	744.4	514.1	401.6	374.9	358.8	348.1	348.1
45°	7331.3	5296.3	2018.9	1087.1	744.4	503.4	385.6	358.8	342.7	332.0	332.0
47.5°	7716.9	5499.8	2013.6	1097.8	728.3	482.0	369.5	342.7	332.0	321.3	321.3
50°	8107.9	5724.8	2024.3	1092.5	706.9	449.8	348.1	332.0	316.0	305.2	305.2
52.5°	8552.3	5960.4	2045.7	1081.8	658.7	412.4	332.0	316.0	299.9	289.2	283.8
55°	9045.0	6217.4	2088.5	1060.3	594.4	374.9	316.0	299.9	278.5	267.8	262.4
57.5°	9612.7	6533.4	2136.7	1017.5	524.8	342.7	299.9	278.5	246.3	230.3	224.9
60°	10153.6	6892.2	2190.3	915.7	455.2	310.6	283.8	251.7	219.6	208.9	203.5
62.5°	10662.3	7245.7	2217.1	733.7	385.6	283.8	267.8	230.3	198.1	187.4	182.1
65°	10989.0	7631.2	2158.2	498.0	316.0	262.4	246.3	214.2	182.1	166.0	166.0
67.5°	11010.4	7813.3	1954.7	326.7	257.1	235.6	224.9	192.8	160.7	149.9	144.6
70°	10469.5	7540.2	1494.1	257.1	214.2	203.5	203.5	171.4	139.2	128.5	123.2
72.5°	9227.1	6678.0	953.2	208.9	182.1	171.4	171.4	144.6	123.2	107.1	101.7
75°	7283.1	5151.8	508.7	171.4	149.9	144.6	133.9	117.8	101.7	91.0	85.7
77.5°	3347.0	2270.6	235.6	123.2	112.5	112.5	101.7	85.7	80.3	69.6	69.6
80°	1322.7	771.2	117.8	80.3	75.0	75.0	75.0	58.9	58.9	48.2	42.8
82.5°	364.2	160.7	58.9	48.2	48.2	48.2	42.8	37.5	37.5	32.1	32.1
85°	37.5	26.8	26.8	26.8	26.8	21.4	21.4	16.1	10.7	10.7	10.7
87.5°	16.1	16.1	16.1	16.1	16.1	10.7	5.4	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)