

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: P841984

Luminaire Tested: **ARCH4-250-750-U-T2U-HSS**

Issue Date: 5/27/2024

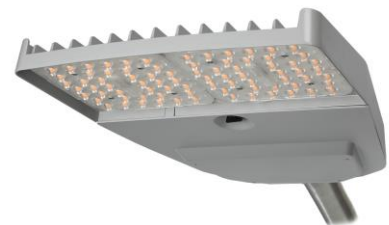
Test Information

Test Method: LM-79-08
Report Number: P841984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26996 lumens
Efficiency: N/A
Efficacy: 108.2 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): 249.5
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



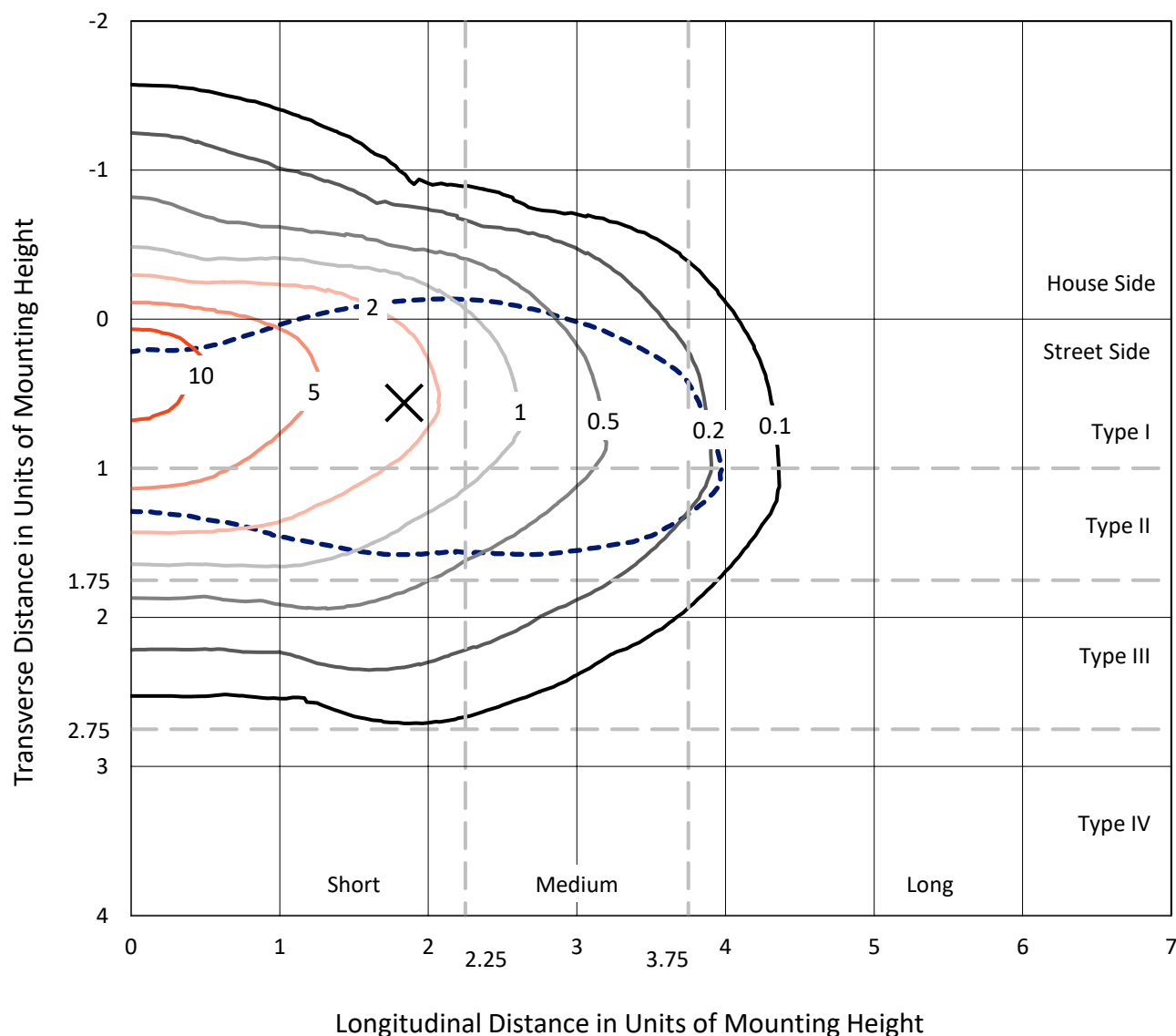
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

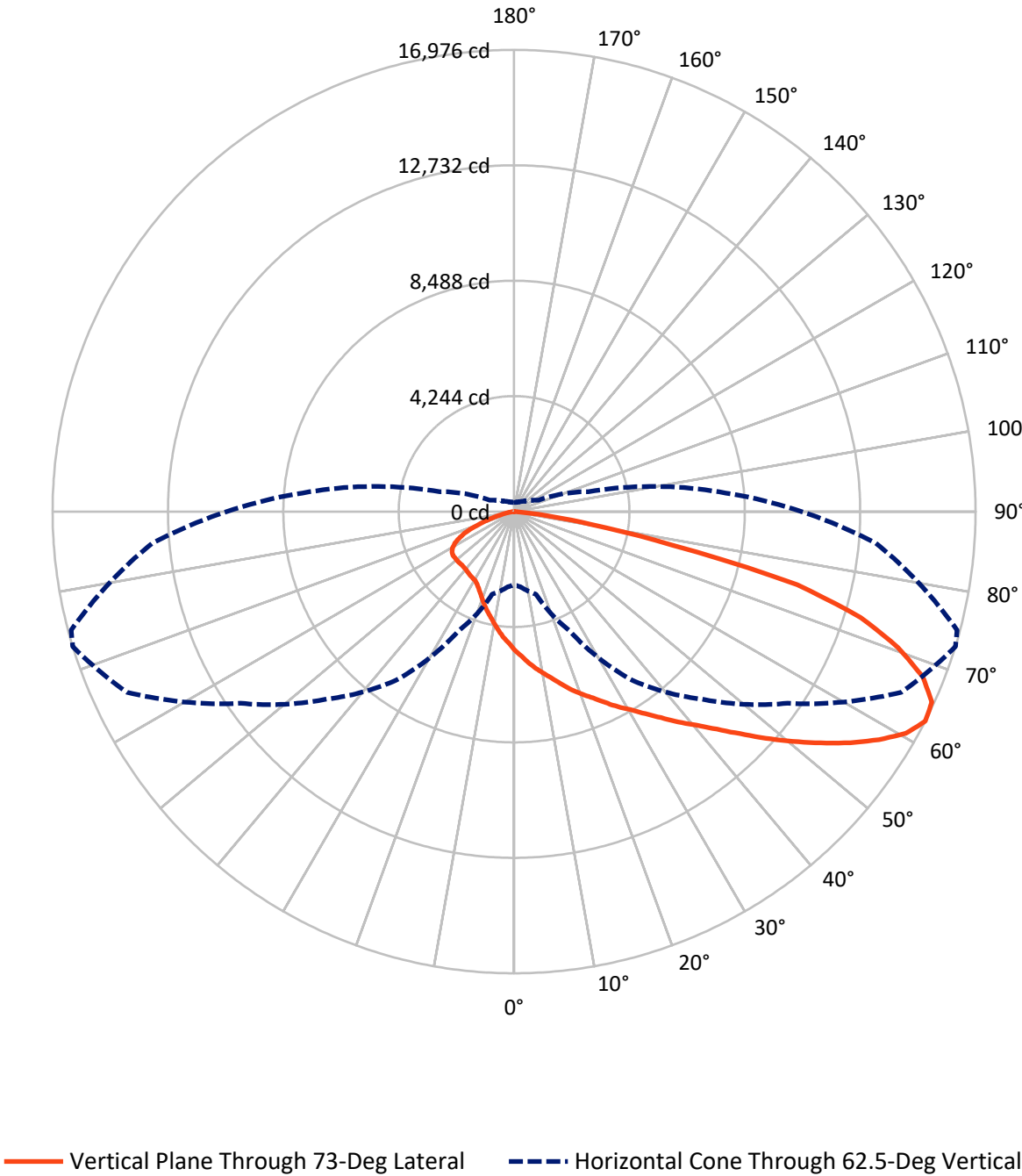


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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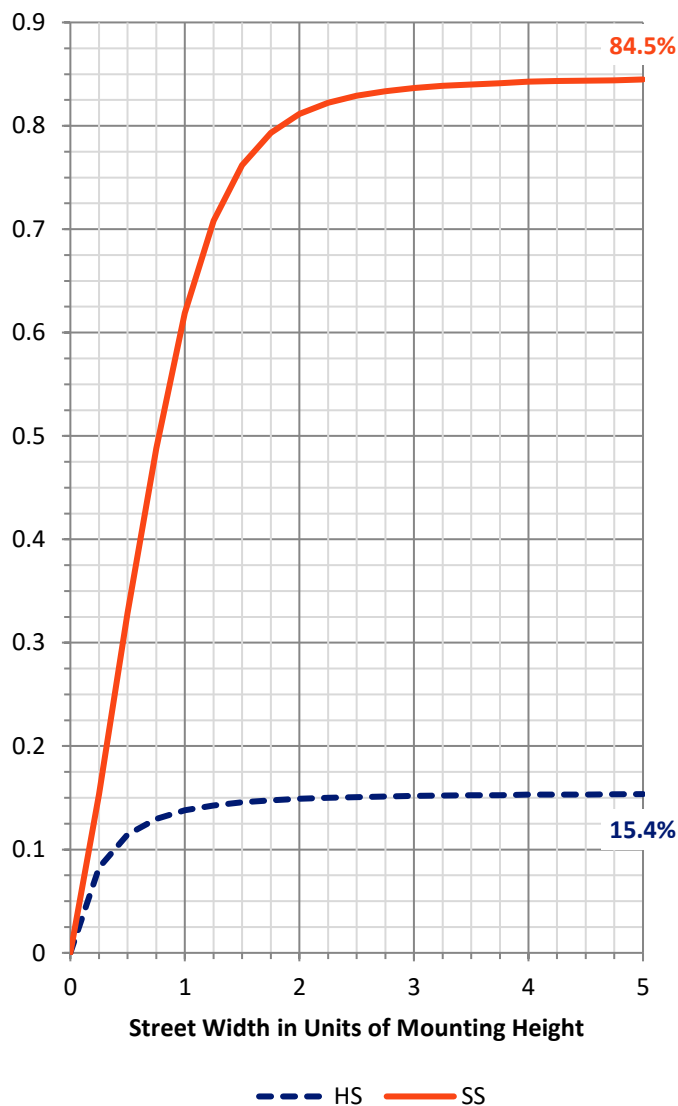
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4184.8	0.0	4184.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	22811.2	0.0	22811.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	26996.0	0.0	26996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.8	1.8
10°-20°	1490.1	5.5
20°-30°	2480.4	9.2
30°-40°	3742.5	13.9
40°-50°	5231.1	19.4
50°-60°	5778.0	21.4
60°-70°	5033.4	18.6
70°-80°	2542.6	9.4
80°-90°	204.1	0.8
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°	26996.0	100.0
0°-180°	26996.0	100.0

Coefficient of Utilization



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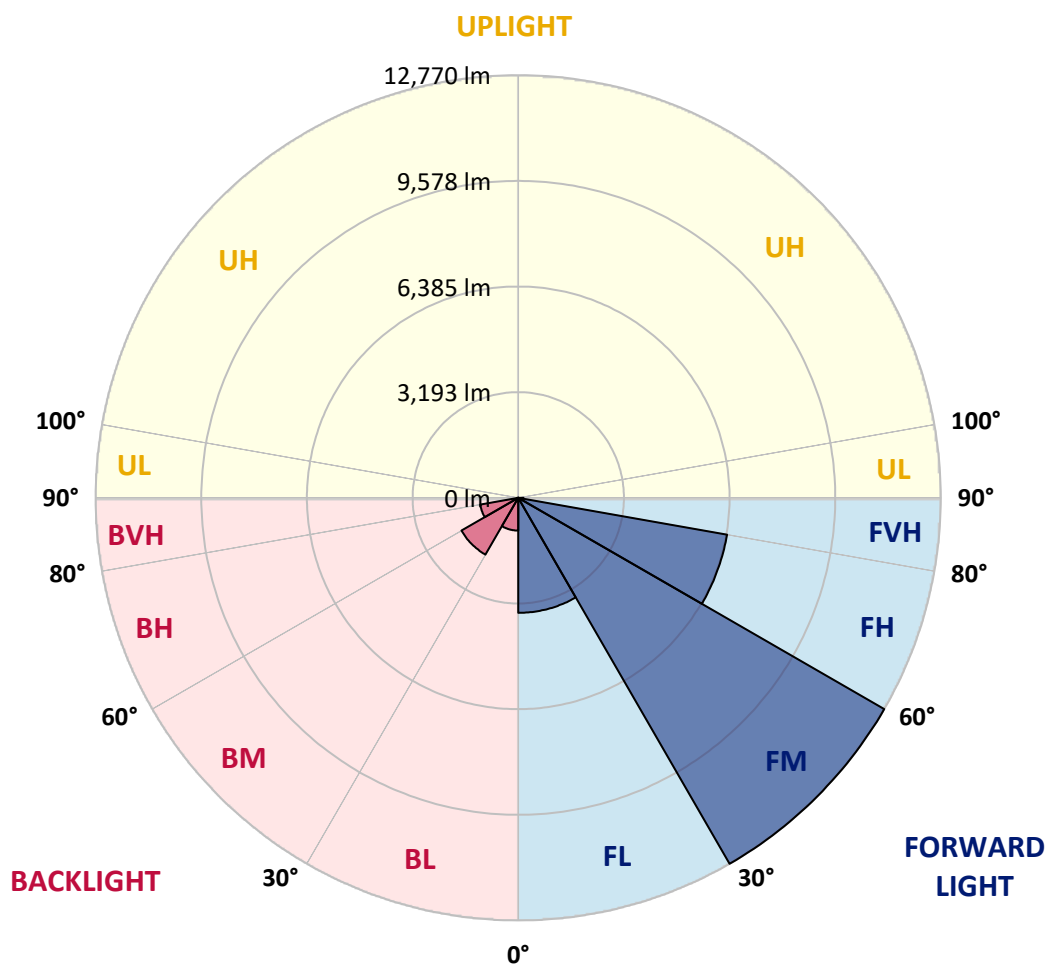
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3475.2	12.9			
FM	(30°-60°)	12770.1	47.3			
FH	(60°-80°)	6408.0	23.7			G3/7500
FVH	(80°-90°)	157.9	0.6			G2/225
BL	(0°-30°)	989.1	3.7	B2/1000		
BM	(30°-60°)	1981.5	7.3	B2/2500		
BH	(60°-80°)	1168.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	46.1	0.2			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°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7
2.5°	5817.6	5882.3	5847.0	5870.6	5752.9	5676.5	5588.2	5417.6	5323.5	5311.7	5200.0
5°	6670.6	6741.2	6682.3	6664.7	6458.8	6282.3	6082.3	5782.3	5582.3	5547.0	5300.0
7.5°	7523.5	7588.2	7517.6	7464.7	7188.2	6876.5	6582.3	6141.2	5829.4	5770.6	5382.3
10°	8123.5	8182.3	8129.4	8076.4	7788.2	7470.6	7052.9	6476.5	6052.9	5958.8	5435.3
12.5°	8576.4	8611.7	8588.2	8541.2	8270.6	7929.4	7529.4	6852.9	6305.9	6188.2	5517.6
15°	8947.0	9005.9	8976.4	8941.2	8682.3	8341.2	7958.8	7247.0	6600.0	6452.9	5641.2
17.5°	9194.1	9235.3	9241.1	9241.1	9011.7	8676.4	8305.9	7605.9	6894.1	6705.9	5758.8
20°	9305.9	9352.9	9382.3	9429.4	9241.1	8952.9	8576.4	7911.7	7170.6	6958.8	5870.6
22.5°	9358.8	9400.0	9476.4	9582.3	9429.4	9188.2	8841.2	8194.1	7447.0	7223.5	6000.0
25°	9400.0	9452.9	9564.7	9764.7	9658.8	9452.9	9152.9	8517.6	7776.4	7547.0	6188.2
27.5°	9511.7	9576.4	9682.3	9923.5	9794.1	9694.1	9482.3	8864.7	8123.5	7888.2	6417.6
30°	9900.0	9952.9	9947.0	10100.0	9941.1	9911.7	9764.7	9200.0	8458.8	8223.5	6688.2
32.5°	10605.9	10658.8	10529.4	10470.6	10123.5	10129.4	10070.6	9558.8	8858.8	8617.6	7000.0
35°	11364.7	11423.5	11252.9	11152.9	10570.6	10400.0	10429.4	10005.9	9305.9	9064.7	7388.2
37.5°	12041.1	12111.7	11964.7	11817.6	11229.4	10835.3	10829.4	10505.9	9817.6	9570.6	7817.6
40°	12411.7	12494.1	12582.3	12500.0	11882.3	11447.0	11258.8	11017.6	10323.5	10070.6	8282.3
42.5°	12588.2	12817.6	12976.4	12923.5	12417.6	11976.4	11752.9	11552.9	10941.1	10694.1	8835.3
45°	12094.1	12100.0	12435.3	12723.5	12629.4	12335.3	12294.1	12152.9	11647.0	11411.7	9458.8
47.5°	11476.4	11429.4	11664.7	12176.4	12441.1	12517.6	12758.8	12817.6	12452.9	12217.6	10094.1
50°	9994.1	10023.5	10788.2	11523.5	12041.1	12535.3	13088.2	13500.0	13282.3	13058.8	10764.7
52.5°	8129.4	8200.0	9076.4	10694.1	11511.7	12358.8	13282.3	14182.3	14129.4	13917.6	11435.3
55°	6517.6	6629.4	7558.8	9311.7	10835.3	11964.7	13364.7	14805.8	15005.8	14811.7	12094.1
57.5°	4982.3	5100.0	5882.3	7682.3	9970.6	11323.5	13305.8	15352.9	15823.5	15700.0	12700.0
60°	3752.9	3870.6	4370.6	6229.4	8888.2	10605.9	13011.7	15711.7	16558.8	16429.4	13141.1
62.5°	2688.2	2782.3	3152.9	4847.0	7570.6	9752.9	12288.2	15717.6	16976.4	16870.5	13352.9
65°	1935.3	1935.3	2235.3	3458.8	6335.3	8729.4	11194.1	14994.1	16888.2	16858.8	13205.8
67.5°	1394.1	1405.9	1647.1	2417.6	5052.9	7488.2	9776.4	13705.8	16205.8	16352.9	12676.4
70°	988.2	1017.6	1129.4	1688.2	3817.6	5911.7	8258.8	12017.6	14976.4	15235.2	11652.9
72.5°	764.7	782.4	858.8	1176.5	2788.2	4394.1	6582.3	10135.3	13335.3	13629.4	10258.8
75°	588.2	605.9	664.7	864.7	2000.0	3082.3	4676.5	7864.7	10752.9	11276.4	8241.2
77.5°	429.4	452.9	494.1	629.4	1164.7	1958.8	2835.3	4423.5	5935.3	6182.3	4317.6
80°	200.0	229.4	288.2	405.9	629.4	923.5	1005.9	1705.9	2852.9	2982.3	2341.2
82.5°	111.8	141.2	164.7	247.1	317.6	329.4	341.2	429.4	1076.5	1188.2	982.4
85°	52.9	70.6	76.5	105.9	105.9	94.1	111.8	82.4	176.5	211.8	205.9
87.5°	0.0	5.9	11.8	29.4	23.5	17.6	17.6	17.6	17.6	23.5	17.6
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°	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7	5111.7
2.5°	5147.0	5070.6	4894.1	4741.2	4641.2	4552.9	4435.3	4382.3	4288.2	4305.9	4252.9
5°	5176.5	5035.3	4723.5	4435.3	4223.5	4035.3	3829.4	3711.8	3582.3	3570.6	3529.4
7.5°	5194.1	4976.5	4529.4	4123.5	3800.0	3511.8	3235.3	3082.3	2923.5	2888.2	2852.9
10°	5176.5	4888.2	4329.4	3800.0	3370.6	3011.8	2700.0	2505.9	2341.2	2300.0	2264.7
12.5°	5194.1	4841.2	4141.2	3500.0	2988.2	2582.3	2229.4	2029.4	1876.5	1835.3	1811.8
15°	5235.3	4811.8	3982.3	3229.4	2647.1	2194.1	1847.1	1676.5	1552.9	1511.8	1500.0
17.5°	5270.6	4782.3	3811.8	2964.7	2305.9	1852.9	1552.9	1411.8	1305.9	1264.7	1252.9
20°	5317.6	4741.2	3641.2	2711.8	2005.9	1582.3	1317.6	1194.1	1111.8	1082.3	1076.5
22.5°	5358.8	4711.8	3482.3	2458.8	1729.4	1364.7	1141.2	1041.2	982.4	952.9	952.9
25°	5464.7	4723.5	3347.0	2223.5	1523.5	1194.1	1005.9	929.4	882.4	864.7	864.7
27.5°	5588.2	4770.6	3241.2	2023.5	1347.1	1064.7	911.8	847.1	823.5	800.0	805.9
30°	5764.7	4864.7	3170.6	1858.8	1217.6	964.7	835.3	788.2	764.7	758.8	758.8
32.5°	5988.2	5017.6	3164.7	1752.9	1123.5	888.2	782.4	741.2	729.4	723.5	723.5
35°	6252.9	5152.9	3129.4	1705.9	1064.7	835.3	741.2	711.8	705.9	705.9	705.9
37.5°	6570.6	5376.5	3105.9	1641.2	1035.3	805.9	711.8	688.2	688.2	688.2	688.2
40°	6900.0	5558.8	3070.6	1582.3	1023.5	788.2	694.1	664.7	664.7	664.7	664.7
42.5°	7294.1	5823.5	3058.8	1552.9	1005.9	776.5	670.6	635.3	641.2	641.2	647.1
45°	7770.6	6123.5	3052.9	1523.5	1000.0	764.7	647.1	605.9	611.8	605.9	605.9
47.5°	8252.9	6470.6	3070.6	1505.9	994.1	752.9	629.4	576.5	576.5	570.6	570.6
50°	8758.8	6788.2	3082.3	1488.2	982.4	729.4	600.0	552.9	541.2	529.4	535.3
52.5°	9235.3	7082.3	3088.2	1458.8	947.1	694.1	576.5	523.5	505.9	488.2	494.1
55°	9711.7	7364.7	3100.0	1423.5	900.0	658.8	547.1	494.1	470.6	447.1	447.1
57.5°	10141.1	7611.7	3070.6	1335.3	847.1	623.5	517.6	458.8	423.5	400.0	400.0
60°	10435.3	7788.2	2982.3	1205.9	776.5	582.4	488.2	423.5	382.4	364.7	364.7
62.5°	10576.4	7817.6	2823.5	994.1	688.2	541.2	452.9	388.2	352.9	341.2	341.2
65°	10441.1	7688.2	2576.5	747.1	594.1	494.1	417.6	358.8	323.5	294.1	294.1
67.5°	9970.6	7323.5	2235.3	564.7	505.9	447.1	382.4	329.4	288.2	264.7	264.7
70°	9023.5	6564.7	1729.4	452.9	429.4	388.2	347.1	294.1	258.8	229.4	229.4
72.5°	7782.3	5564.7	1217.6	364.7	364.7	329.4	294.1	258.8	223.5	200.0	200.0
75°	5970.6	4117.6	817.6	294.1	300.0	276.5	241.2	211.8	188.2	170.6	170.6
77.5°	3258.8	2035.3	500.0	217.6	223.5	211.8	188.2	170.6	158.8	141.2	141.2
80°	1582.3	894.1	288.2	152.9	158.8	152.9	141.2	123.5	123.5	111.8	111.8
82.5°	664.7	335.3	152.9	105.9	105.9	94.1	88.2	88.2	88.2	82.4	82.4
85°	164.7	64.7	64.7	58.8	58.8	58.8	52.9	52.9	52.9	41.2	47.1
87.5°	23.5	23.5	23.5	23.5	23.5	23.5	17.6	5.9	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)