

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: P841840

Luminaire Tested: **ARCH4-230-750-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841840
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: ARCH4-230-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 905mA 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: 25449 lumens
Efficiency: N/A
Efficacy: 110.1 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): 231.2
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



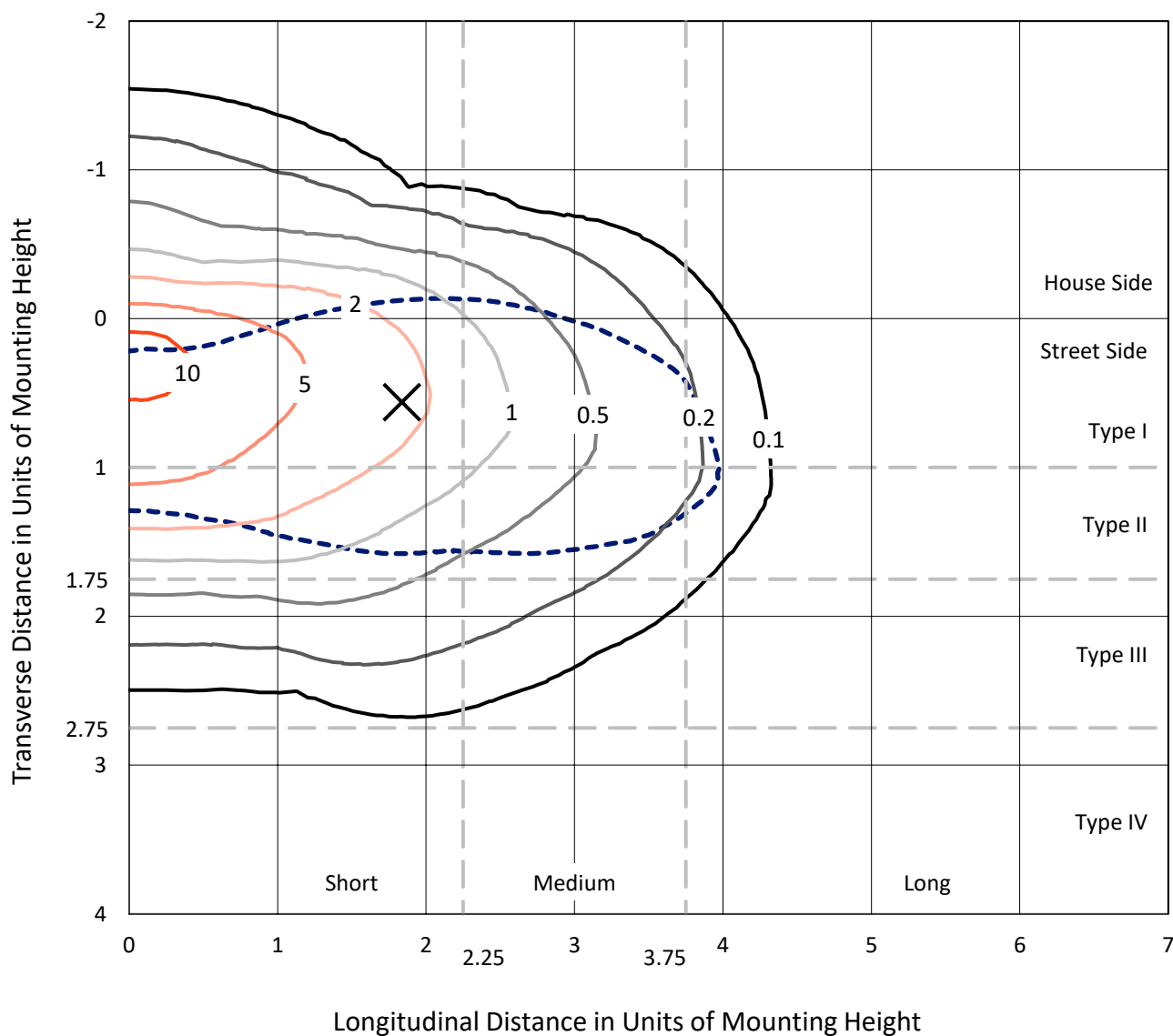
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

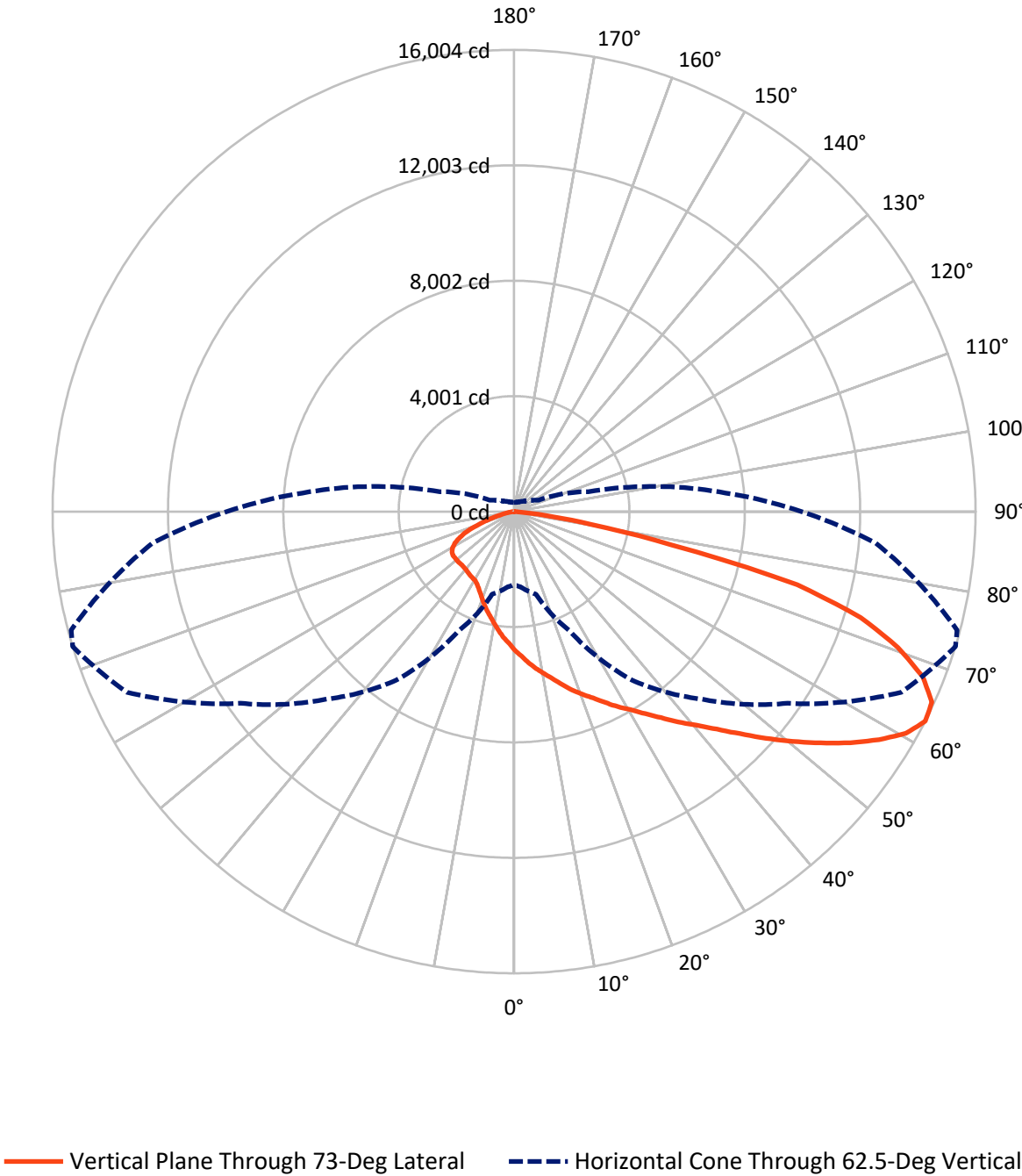


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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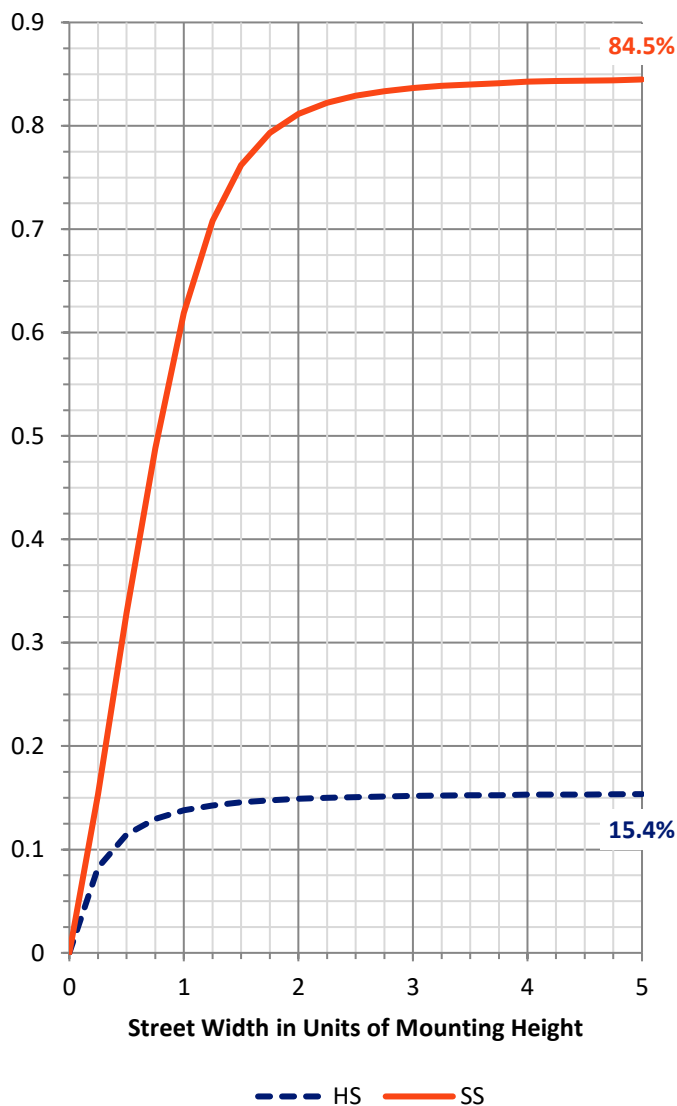
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3945.0	0.0	3945.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	21504.0	0.0	21504.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	25449.0	0.0	25449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.5	1.8
10°-20°	1404.7	5.5
20°-30°	2338.2	9.2
30°-40°	3528.0	13.9
40°-50°	4931.3	19.4
50°-60°	5446.9	21.4
60°-70°	4745.0	18.6
70°-80°	2396.9	9.4
80°-90°	192.4	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°	25449.0	100.0
0°-180°	25449.0	100.0

Coefficient of Utilization



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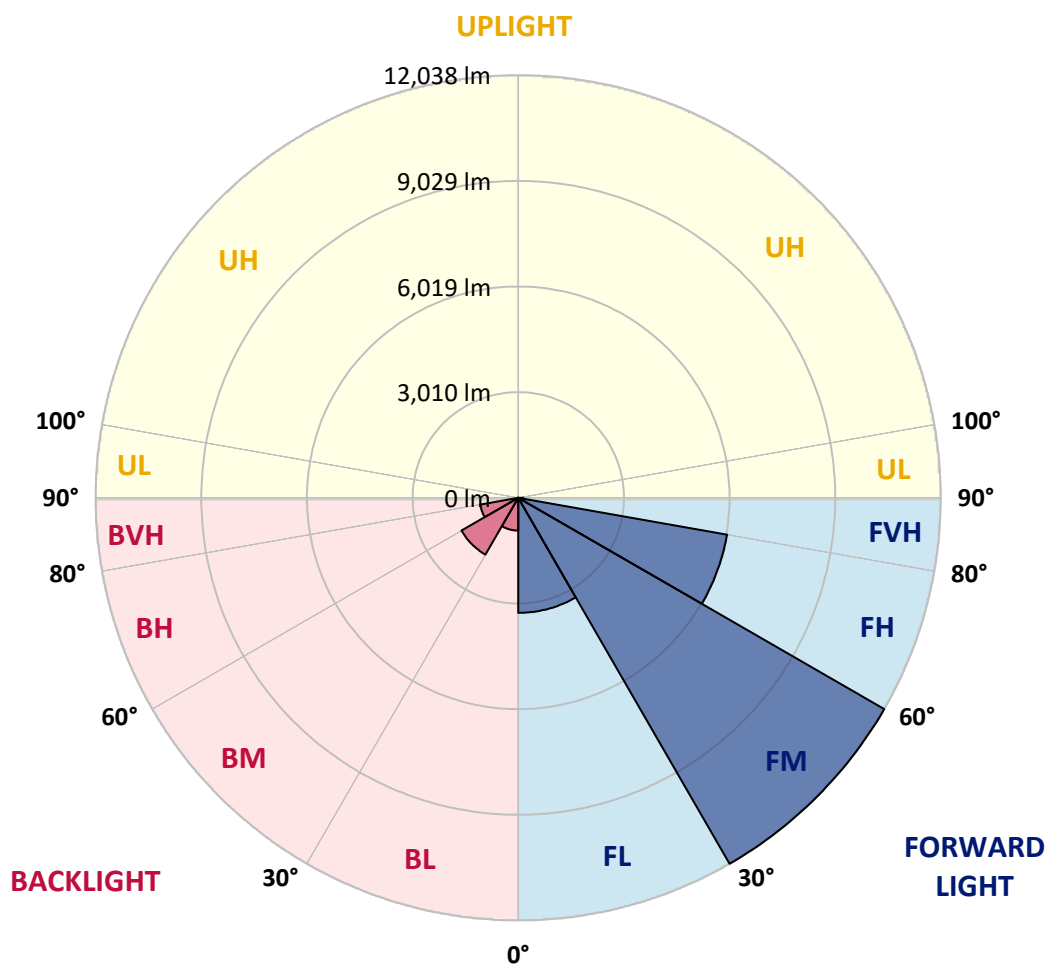
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3276.1	12.9			
FM	(30°-60°)	12038.3	47.3			
FH	(60°-80°)	6040.8	23.7			G3/7500
FVH	(80°-90°)	148.9	0.6			G2/225
BL	(0°-30°)	932.4	3.7	B2/1000		
BM	(30°-60°)	1867.9	7.3	B2/2500		
BH	(60°-80°)	1101.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	43.5	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°	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8
2.5°	5484.3	5545.2	5512.0	5534.2	5423.3	5351.2	5268.0	5107.2	5018.5	5007.4	4902.0
5°	6288.3	6354.9	6299.4	6282.8	6088.7	5922.3	5733.8	5451.0	5262.4	5229.2	4996.3
7.5°	7092.4	7153.4	7086.8	7036.9	6776.3	6482.4	6205.1	5789.2	5495.3	5439.9	5073.9
10°	7658.0	7713.4	7663.5	7613.6	7341.9	7042.5	6648.8	6105.3	5706.1	5617.3	5123.8
12.5°	8085.0	8118.2	8096.1	8051.7	7796.6	7475.0	7097.9	6460.2	5944.5	5833.6	5201.4
15°	8434.3	8489.8	8462.1	8428.8	8184.8	7863.2	7502.7	6831.7	6221.8	6083.1	5317.9
17.5°	8667.2	8706.0	8711.6	8711.6	8495.3	8179.2	7829.9	7170.0	6499.0	6321.6	5428.8
20°	8772.6	8816.9	8844.7	8889.0	8711.6	8439.9	8085.0	7458.4	6759.7	6560.0	5534.2
22.5°	8822.5	8861.3	8933.4	9033.2	8889.0	8661.7	8334.5	7724.5	7020.3	6809.6	5656.2
25°	8861.3	8911.2	9016.6	9205.1	9105.3	8911.2	8628.4	8029.5	7330.8	7114.6	5833.6
27.5°	8966.7	9027.7	9127.5	9354.8	9232.8	9138.6	8938.9	8356.7	7658.0	7436.2	6049.9
30°	9332.7	9382.6	9377.0	9521.2	9371.5	9343.7	9205.1	8672.8	7974.1	7752.3	6304.9
32.5°	9998.1	10048.0	9926.0	9870.5	9543.4	9548.9	9493.5	9011.0	8351.1	8123.8	6598.8
35°	10713.4	10768.9	10608.1	10513.8	9964.8	9804.0	9831.7	9432.5	8772.6	8545.2	6964.8
37.5°	11351.1	11417.7	11279.0	11140.4	10585.9	10214.4	10208.8	9903.8	9255.0	9022.1	7369.6
40°	11700.5	11778.1	11861.3	11783.7	11201.4	10791.1	10613.6	10386.3	9731.9	9493.5	7807.7
42.5°	11866.8	12083.1	12232.8	12182.9	11706.0	11290.1	11079.4	10890.9	10314.2	10081.3	8329.0
45°	11401.0	11406.6	11722.7	11994.4	11905.7	11628.4	11589.6	11456.5	10979.6	10757.8	8916.8
47.5°	10818.8	10774.4	10996.2	11478.7	11728.2	11800.3	12027.6	12083.1	11739.3	11517.5	9515.6
50°	9421.4	9449.1	10170.0	10863.1	11351.1	11816.9	12338.2	12726.3	12521.2	12310.5	10147.8
52.5°	7663.5	7730.1	8556.3	10081.3	10852.1	11650.6	12521.2	13369.6	13319.7	13120.1	10780.0
55°	6144.1	6249.5	7125.6	8778.1	10214.4	11279.0	12598.8	13957.4	14145.9	13962.9	11401.0
57.5°	4696.8	4807.7	5545.2	7242.1	9399.2	10674.6	12543.4	14473.1	14916.7	14800.3	11972.2
60°	3537.9	3648.8	4120.1	5872.4	8378.9	9998.1	12266.1	14811.4	15609.9	15487.9	12388.1
62.5°	2534.2	2622.9	2972.3	4569.3	7136.7	9194.0	11584.0	14816.9	16003.6	15903.8	12587.7
65°	1824.4	1824.4	2107.2	3260.6	5972.2	8229.2	10552.6	14134.8	15920.4	15892.7	12449.1
67.5°	1314.2	1325.3	1552.7	2279.1	4763.4	7059.1	9216.2	12920.4	15277.2	15415.8	11950.0
70°	931.6	959.3	1064.7	1591.5	3598.9	5573.0	7785.5	11328.9	14118.2	14362.2	10985.1
72.5°	720.9	737.5	809.6	1109.0	2628.4	4142.3	6205.1	9554.5	12571.1	12848.3	9670.9
75°	554.5	571.2	626.6	815.2	1885.4	2905.7	4408.5	7414.0	10136.7	10630.2	7768.9
77.5°	404.8	427.0	465.8	593.3	1098.0	1846.6	2672.8	4170.0	5595.2	5828.1	4070.2
80°	188.5	216.3	271.7	382.6	593.3	870.6	948.2	1608.1	2689.4	2811.4	2207.0
82.5°	105.4	133.1	155.3	232.9	299.4	310.5	321.6	404.8	1014.8	1120.1	926.1
85°	49.9	66.5	72.1	99.8	99.8	88.7	105.4	77.6	166.4	199.6	194.1
87.5°	0.0	5.5	11.1	27.7	22.2	16.6	16.6	16.6	16.6	22.2	16.6
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°	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8	4818.8
2.5°	4852.1	4780.0	4613.6	4469.5	4375.2	4292.0	4181.1	4131.2	4042.5	4059.1	4009.2
5°	4879.8	4746.7	4452.8	4181.1	3981.5	3804.0	3610.0	3499.1	3377.1	3366.0	3327.1
7.5°	4896.5	4691.3	4269.8	3887.2	3582.2	3310.5	3049.9	2905.7	2756.0	2722.7	2689.4
10°	4879.8	4608.1	4081.3	3582.2	3177.4	2839.2	2545.3	2362.3	2207.0	2168.2	2134.9
12.5°	4896.5	4563.7	3903.9	3299.4	2817.0	2434.4	2101.6	1913.1	1768.9	1730.1	1707.9
15°	4935.3	4536.0	3754.1	3044.3	2495.4	2068.4	1741.2	1580.4	1463.9	1425.1	1414.0
17.5°	4968.5	4508.3	3593.3	2794.8	2173.7	1746.8	1463.9	1330.9	1231.0	1192.2	1181.1
20°	5012.9	4469.5	3432.5	2556.4	1890.9	1491.7	1242.1	1125.7	1048.1	1020.3	1014.8
22.5°	5051.7	4441.7	3282.8	2317.9	1630.3	1286.5	1075.8	981.5	926.1	898.3	898.3
25°	5151.5	4452.8	3155.2	2096.1	1436.2	1125.7	948.2	876.1	831.8	815.2	815.2
27.5°	5268.0	4497.2	3055.4	1907.6	1269.9	1003.7	859.5	798.5	776.3	754.2	759.7
30°	5434.3	4585.9	2988.9	1752.3	1147.9	909.4	787.4	743.1	720.9	715.3	715.3
32.5°	5645.1	4730.1	2983.3	1652.5	1059.1	837.3	737.5	698.7	687.6	682.1	682.1
35°	5894.6	4857.6	2950.1	1608.1	1003.7	787.4	698.7	671.0	665.4	665.4	665.4
37.5°	6194.0	5068.4	2927.9	1547.1	976.0	759.7	671.0	648.8	648.8	648.8	648.8
40°	6504.6	5240.3	2894.6	1491.7	964.9	743.1	654.3	626.6	626.6	626.6	626.6
42.5°	6876.1	5489.8	2883.5	1463.9	948.2	732.0	632.2	598.9	604.4	604.4	610.0
45°	7325.3	5772.6	2878.0	1436.2	942.7	720.9	610.0	571.2	576.7	571.2	571.2
47.5°	7780.0	6099.8	2894.6	1419.6	937.1	709.8	593.3	543.4	543.4	537.9	537.9
50°	8256.9	6399.2	2905.7	1402.9	926.1	687.6	565.6	521.3	510.2	499.1	504.6
52.5°	8706.0	6676.5	2911.3	1375.2	892.8	654.3	543.4	493.5	476.9	460.3	465.8
55°	9155.2	6942.7	2922.3	1342.0	848.4	621.1	515.7	465.8	443.6	421.4	421.4
57.5°	9560.0	7175.6	2894.6	1258.8	798.5	587.8	488.0	432.5	399.3	377.1	377.1
60°	9837.3	7341.9	2811.4	1136.8	732.0	549.0	460.3	399.3	360.4	343.8	343.8
62.5°	9970.4	7369.6	2661.7	937.1	648.8	510.2	427.0	366.0	332.7	321.6	321.6
65°	9842.8	7247.6	2428.8	704.2	560.1	465.8	393.7	338.3	305.0	277.3	277.3
67.5°	9399.2	6903.8	2107.2	532.3	476.9	421.4	360.4	310.5	271.7	249.5	249.5
70°	8506.4	6188.5	1630.3	427.0	404.8	366.0	327.2	277.3	244.0	216.3	216.3
72.5°	7336.4	5245.8	1147.9	343.8	343.8	310.5	277.3	244.0	210.7	188.5	188.5
75°	5628.4	3881.7	770.8	277.3	282.8	260.6	227.4	199.6	177.4	160.8	160.8
77.5°	3072.1	1918.7	471.3	205.2	210.7	199.6	177.4	160.8	149.7	133.1	133.1
80°	1491.7	842.9	271.7	144.2	149.7	144.2	133.1	116.5	116.5	105.4	105.4
82.5°	626.6	316.1	144.2	99.8	99.8	88.7	83.2	83.2	83.2	77.6	77.6
85°	155.3	61.0	61.0	55.5	55.5	55.5	49.9	49.9	49.9	38.8	44.4
87.5°	22.2	22.2	22.2	22.2	22.2	22.2	16.6	5.5	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)