

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: P841048

Luminaire Tested: **ARCH4-120-750-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841048
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: ARCH4-120-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1000mA 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: 15069 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

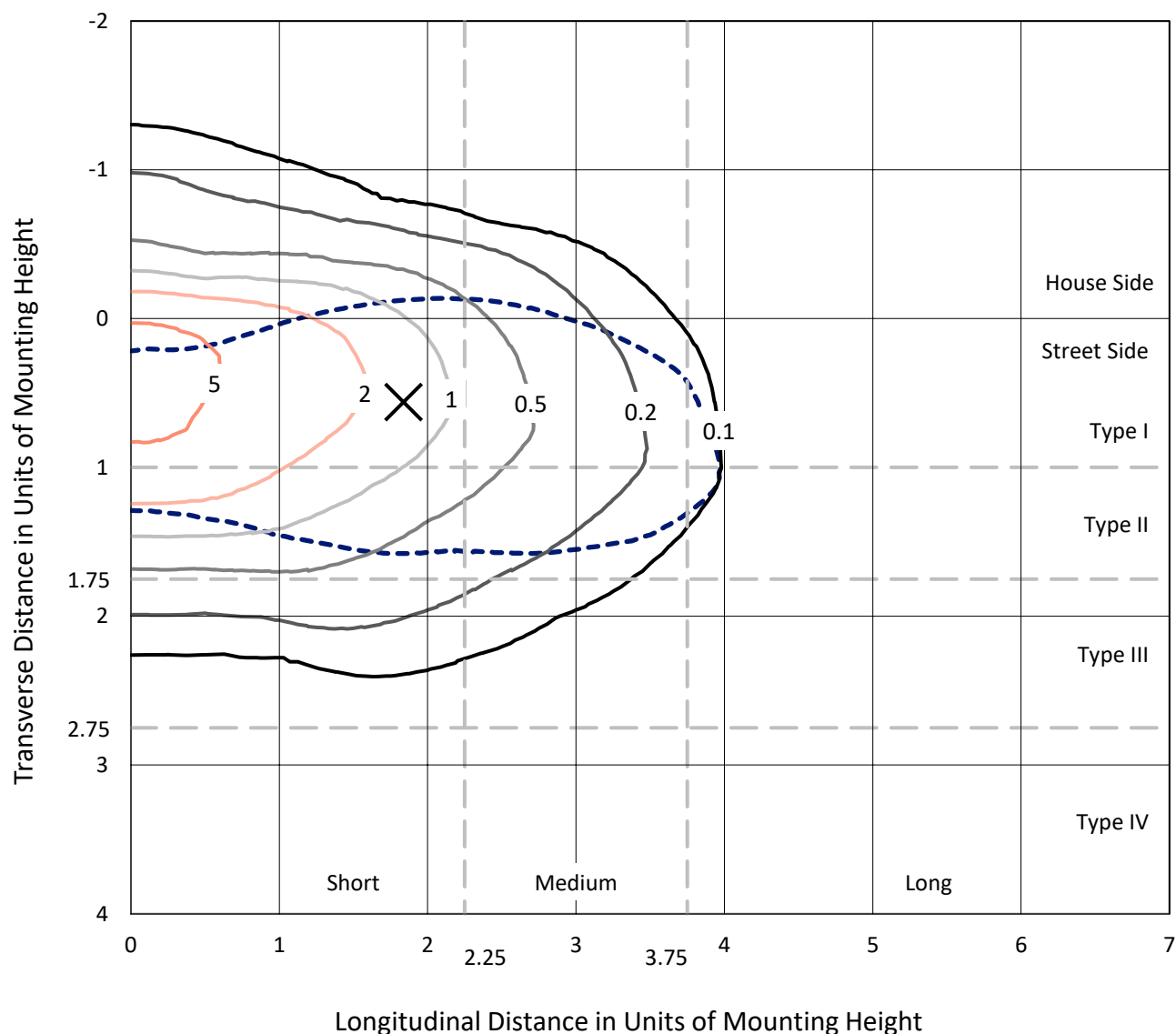
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

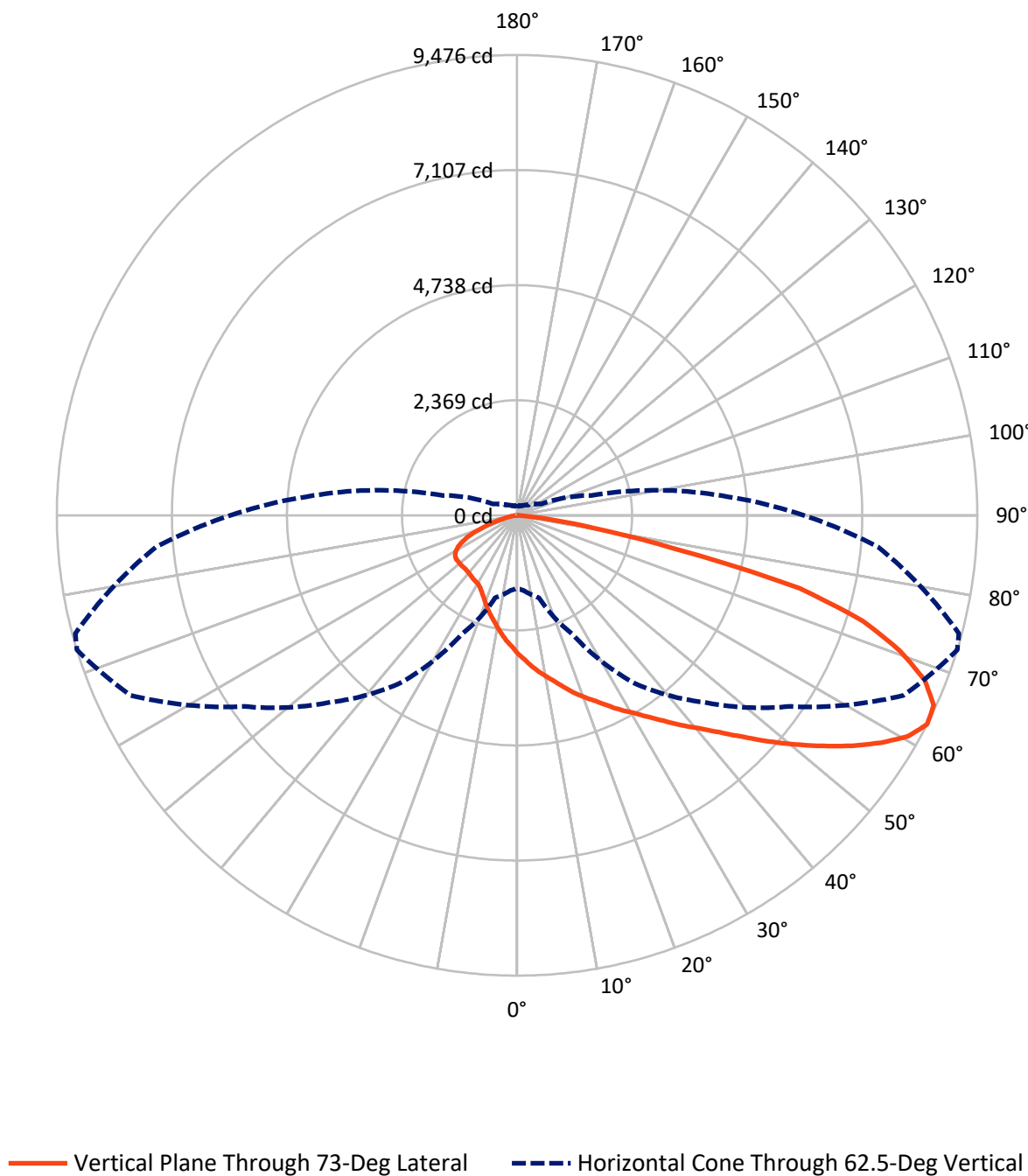
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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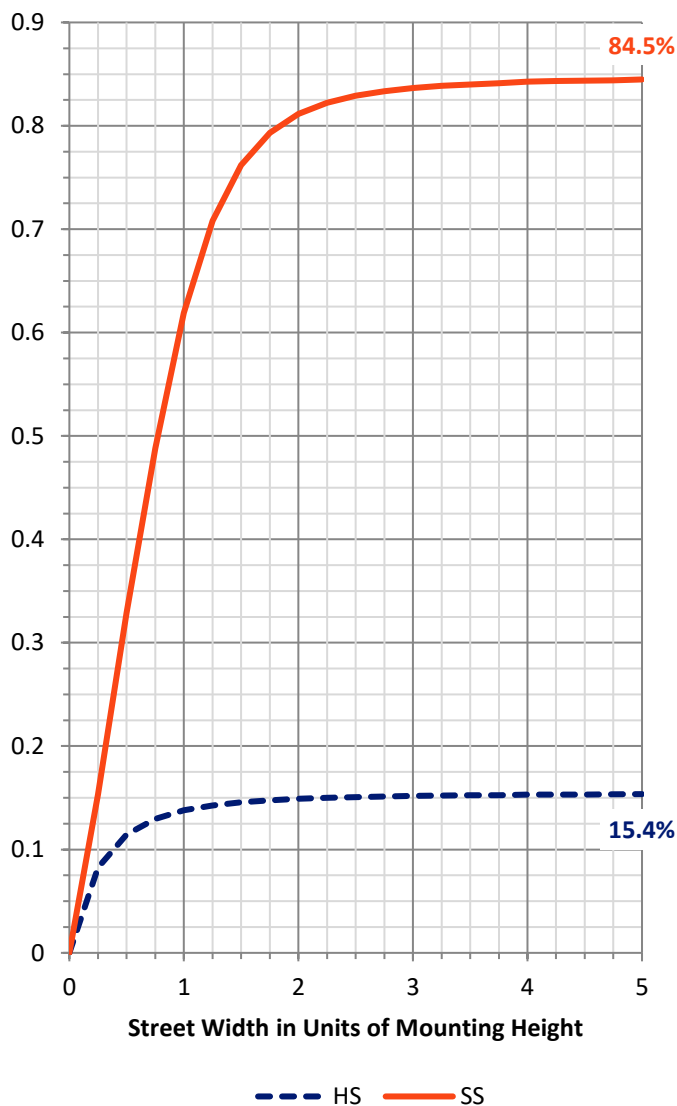
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2335.9	0.0	2335.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	12733.1	0.0	12733.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	15069.0	0.0	15069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	1.8
10°-20°	831.8	5.5
20°-30°	1384.5	9.2
30°-40°	2089.0	13.9
40°-50°	2919.9	19.4
50°-60°	3225.3	21.4
60°-70°	2809.6	18.6
70°-80°	1419.3	9.4
80°-90°	113.9	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°	15069.0	100.0
0°-180°	15069.0	100.0

Coefficient of Utilization



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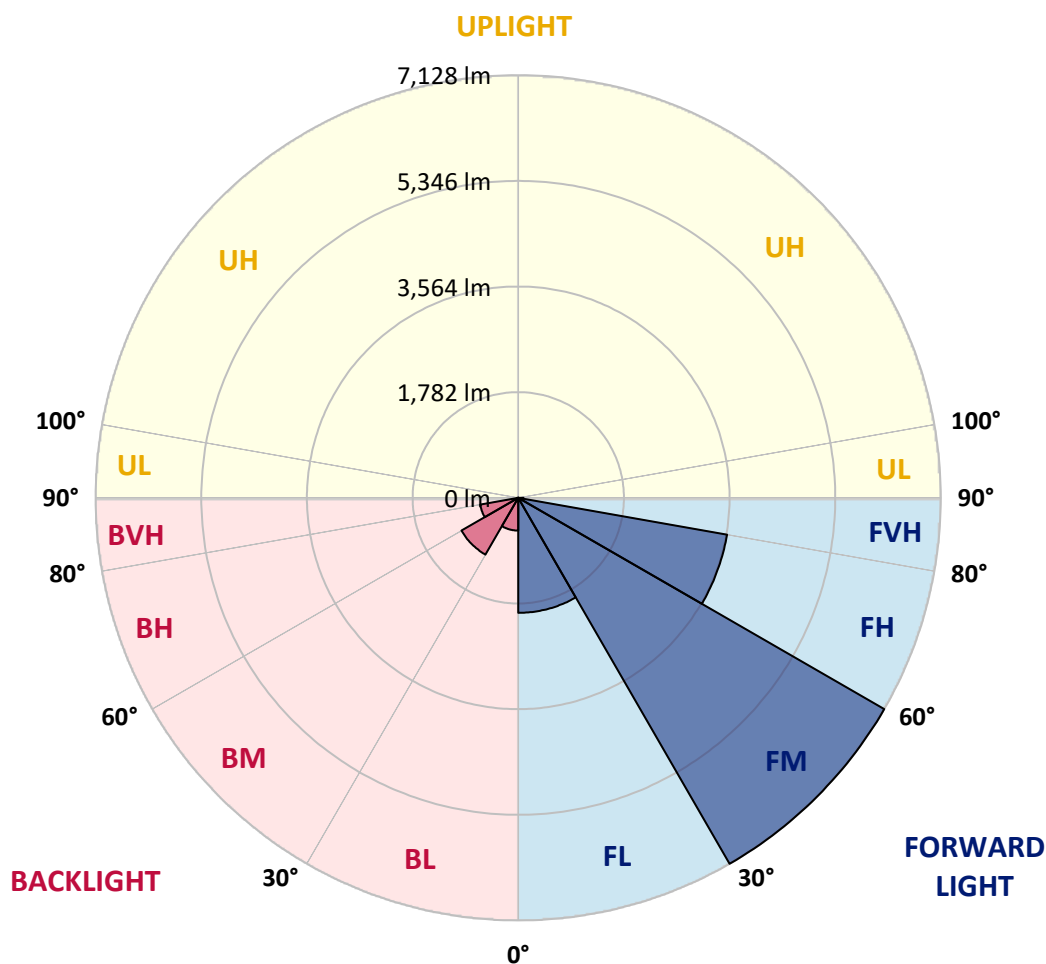
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1939.8	12.9			
FM	(30°-60°)	7128.2	47.3			
FH	(60°-80°)	3576.9	23.7			G2/5000
FVH	(80°-90°)	88.2	0.6			G1/100
BL	(0°-30°)	552.1	3.7	B2/1000		
BM	(30°-60°)	1106.0	7.3	B2/2500		
BH	(60°-80°)	652.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	25.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3
2.5°	3247.4	3283.5	3263.8	3276.9	3211.2	3168.6	3119.3	3024.1	2971.6	2965.0	2902.6
5°	3723.5	3762.9	3730.0	3720.2	3605.3	3506.8	3395.1	3227.7	3116.0	3096.3	2958.4
7.5°	4199.6	4235.7	4196.3	4166.7	4012.4	3838.4	3674.2	3428.0	3253.9	3221.1	3004.4
10°	4534.5	4567.3	4537.8	4508.2	4347.3	4170.0	3936.9	3615.1	3378.7	3326.2	3033.9
12.5°	4787.3	4807.0	4793.9	4767.6	4616.6	4426.1	4202.9	3825.3	3519.9	3454.2	3079.9
15°	4994.2	5027.0	5010.6	4990.9	4846.4	4656.0	4442.6	4045.3	3684.1	3602.0	3148.9
17.5°	5132.1	5155.1	5158.4	5158.4	5030.3	4843.1	4636.3	4245.5	3848.2	3743.2	3214.5
20°	5194.5	5220.7	5237.2	5263.4	5158.4	4997.5	4787.3	4416.3	4002.6	3884.4	3276.9
22.5°	5224.0	5247.0	5289.7	5348.8	5263.4	5128.8	4935.1	4573.9	4156.9	4032.1	3349.2
25°	5247.0	5276.6	5338.9	5450.6	5391.5	5276.6	5109.1	4754.5	4340.8	4212.7	3454.2
27.5°	5309.4	5345.5	5404.6	5539.2	5467.0	5411.2	5293.0	4948.2	4534.5	4403.2	3582.3
30°	5526.1	5555.7	5552.4	5637.7	5549.1	5532.7	5450.6	5135.4	4721.6	4590.3	3733.3
32.5°	5920.1	5949.7	5877.4	5844.6	5650.9	5654.2	5621.3	5335.7	4944.9	4810.3	3907.3
35°	6343.7	6376.5	6281.3	6225.5	5900.4	5805.2	5821.6	5585.2	5194.5	5059.8	4124.1
37.5°	6721.3	6760.7	6678.6	6596.5	6268.2	6048.2	6044.9	5864.3	5480.1	5342.2	4363.7
40°	6928.2	6974.1	7023.4	6977.4	6632.6	6389.7	6284.6	6150.0	5762.5	5621.3	4623.1
42.5°	7026.7	7154.7	7243.4	7213.8	6931.4	6685.2	6560.4	6448.8	6107.3	5969.4	4931.8
45°	6750.8	6754.1	6941.3	7102.2	7049.6	6885.5	6862.5	6783.7	6501.3	6370.0	5279.8
47.5°	6406.1	6379.8	6511.1	6796.8	6944.6	6987.3	7121.9	7154.7	6951.1	6819.8	5634.5
50°	5578.6	5595.1	6021.9	6432.3	6721.3	6997.1	7305.8	7535.6	7414.1	7289.3	6008.8
52.5°	4537.8	4577.2	5066.4	5969.4	6425.8	6898.6	7414.1	7916.5	7886.9	7768.7	6383.1
55°	3638.1	3700.5	4219.3	5197.8	6048.2	6678.6	7460.1	8264.5	8376.2	8267.8	6750.8
57.5°	2781.1	2846.8	3283.5	4288.2	5565.5	6320.7	7427.2	8569.9	8832.6	8763.6	7089.0
60°	2094.9	2160.5	2439.6	3477.2	4961.3	5920.1	7263.1	8770.2	9243.0	9170.8	7335.3
62.5°	1500.6	1553.1	1759.9	2705.6	4225.8	5444.0	6859.2	8773.5	9476.1	9417.0	7453.5
65°	1080.3	1080.3	1247.7	1930.7	3536.3	4872.7	6248.5	8369.6	9426.9	9410.5	7371.4
67.5°	778.2	784.8	919.4	1349.5	2820.5	4179.9	5457.1	7650.5	9046.0	9128.1	7075.9
70°	551.6	568.0	630.4	942.4	2131.0	3299.9	4610.0	6708.2	8359.7	8504.2	6504.6
72.5°	426.9	436.7	479.4	656.7	1556.4	2452.8	3674.2	5657.4	7443.7	7607.8	5726.4
75°	328.3	338.2	371.0	482.7	1116.4	1720.5	2610.4	4390.0	6002.2	6294.4	4600.2
77.5°	239.7	252.8	275.8	351.3	650.1	1093.4	1582.6	2469.2	3313.0	3450.9	2410.1
80°	111.6	128.1	160.9	226.6	351.3	515.5	561.5	952.2	1592.5	1664.7	1306.8
82.5°	62.4	78.8	91.9	137.9	177.3	183.9	190.4	239.7	600.9	663.3	548.3
85°	29.6	39.4	42.7	59.1	59.1	52.5	62.4	46.0	98.5	118.2	114.9
87.5°	0.0	3.3	6.6	16.4	13.1	9.9	9.9	9.9	9.9	13.1	9.9
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°	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3	2853.3
2.5°	2873.0	2830.4	2731.9	2646.5	2590.7	2541.4	2475.7	2446.2	2393.7	2403.5	2374.0
5°	2889.5	2810.7	2636.6	2475.7	2357.5	2252.5	2137.5	2071.9	1999.6	1993.1	1970.1
7.5°	2899.3	2777.8	2528.3	2301.7	2121.1	1960.2	1805.9	1720.5	1631.9	1612.2	1592.5
10°	2889.5	2728.6	2416.6	2121.1	1881.4	1681.1	1507.1	1398.8	1306.8	1283.8	1264.1
12.5°	2899.3	2702.3	2311.6	1953.7	1668.0	1441.4	1244.4	1132.8	1047.4	1024.4	1011.3
15°	2922.3	2685.9	2222.9	1802.6	1477.6	1224.7	1031.0	935.8	866.8	843.9	837.3
17.5°	2942.0	2669.5	2127.7	1654.9	1287.1	1034.3	866.8	788.0	728.9	705.9	699.4
20°	2968.3	2646.5	2032.5	1513.7	1119.7	883.3	735.5	666.5	620.6	604.2	600.9
22.5°	2991.3	2630.1	1943.8	1372.5	965.3	761.8	637.0	581.2	548.3	531.9	531.9
25°	3050.4	2636.6	1868.3	1241.2	850.4	666.5	561.5	518.8	492.5	482.7	482.7
27.5°	3119.3	2662.9	1809.2	1129.5	751.9	594.3	508.9	472.8	459.7	446.6	449.8
30°	3217.8	2715.4	1769.8	1037.6	679.7	538.5	466.3	440.0	426.9	423.6	423.6
32.5°	3342.6	2800.8	1766.5	978.5	627.1	495.8	436.7	413.7	407.2	403.9	403.9
35°	3490.3	2876.3	1746.8	952.2	594.3	466.3	413.7	397.3	394.0	394.0	394.0
37.5°	3667.7	3001.1	1733.7	916.1	577.9	449.8	397.3	384.2	384.2	384.2	384.2
40°	3851.5	3102.9	1714.0	883.3	571.3	440.0	387.5	371.0	371.0	371.0	371.0
42.5°	4071.5	3250.6	1707.4	866.8	561.5	433.4	374.3	354.6	357.9	357.9	361.2
45°	4337.5	3418.1	1704.1	850.4	558.2	426.9	361.2	338.2	341.5	338.2	338.2
47.5°	4606.7	3611.8	1714.0	840.6	554.9	420.3	351.3	321.8	321.8	318.5	318.5
50°	4889.1	3789.1	1720.5	830.7	548.3	407.2	334.9	308.6	302.1	295.5	298.8
52.5°	5155.1	3953.3	1723.8	814.3	528.6	387.5	321.8	292.2	282.4	272.5	275.8
55°	5421.0	4110.9	1730.4	794.6	502.4	367.8	305.4	275.8	262.7	249.5	249.5
57.5°	5660.7	4248.8	1714.0	745.4	472.8	348.0	288.9	256.1	236.4	223.3	223.3
60°	5824.9	4347.3	1664.7	673.1	433.4	325.1	272.5	236.4	213.4	203.6	203.6
62.5°	5903.7	4363.7	1576.1	554.9	384.2	302.1	252.8	216.7	197.0	190.4	190.4
65°	5828.2	4291.5	1438.2	417.0	331.6	275.8	233.1	200.3	180.6	164.2	164.2
67.5°	5565.5	4087.9	1247.7	315.2	282.4	249.5	213.4	183.9	160.9	147.8	147.8
70°	5036.9	3664.4	965.3	252.8	239.7	216.7	193.7	164.2	144.5	128.1	128.1
72.5°	4344.0	3106.2	679.7	203.6	203.6	183.9	164.2	144.5	124.8	111.6	111.6
75°	3332.7	2298.4	456.4	164.2	167.5	154.3	134.6	118.2	105.1	95.2	95.2
77.5°	1819.0	1136.1	279.1	121.5	124.8	118.2	105.1	95.2	88.7	78.8	78.8
80°	883.3	499.1	160.9	85.4	88.7	85.4	78.8	69.0	69.0	62.4	62.4
82.5°	371.0	187.2	85.4	59.1	59.1	52.5	49.3	49.3	49.3	46.0	46.0
85°	91.9	36.1	36.1	32.8	32.8	32.8	29.6	29.6	29.6	23.0	26.3
87.5°	13.1	13.1	13.1	13.1	13.1	13.1	9.9	3.3	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)