

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: P840976

Luminaire Tested: **ARCH4-110-750-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840976
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: ARCH4-110-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 920mA 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: 14012 lumens
Efficiency: N/A
Efficacy: 124.4 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

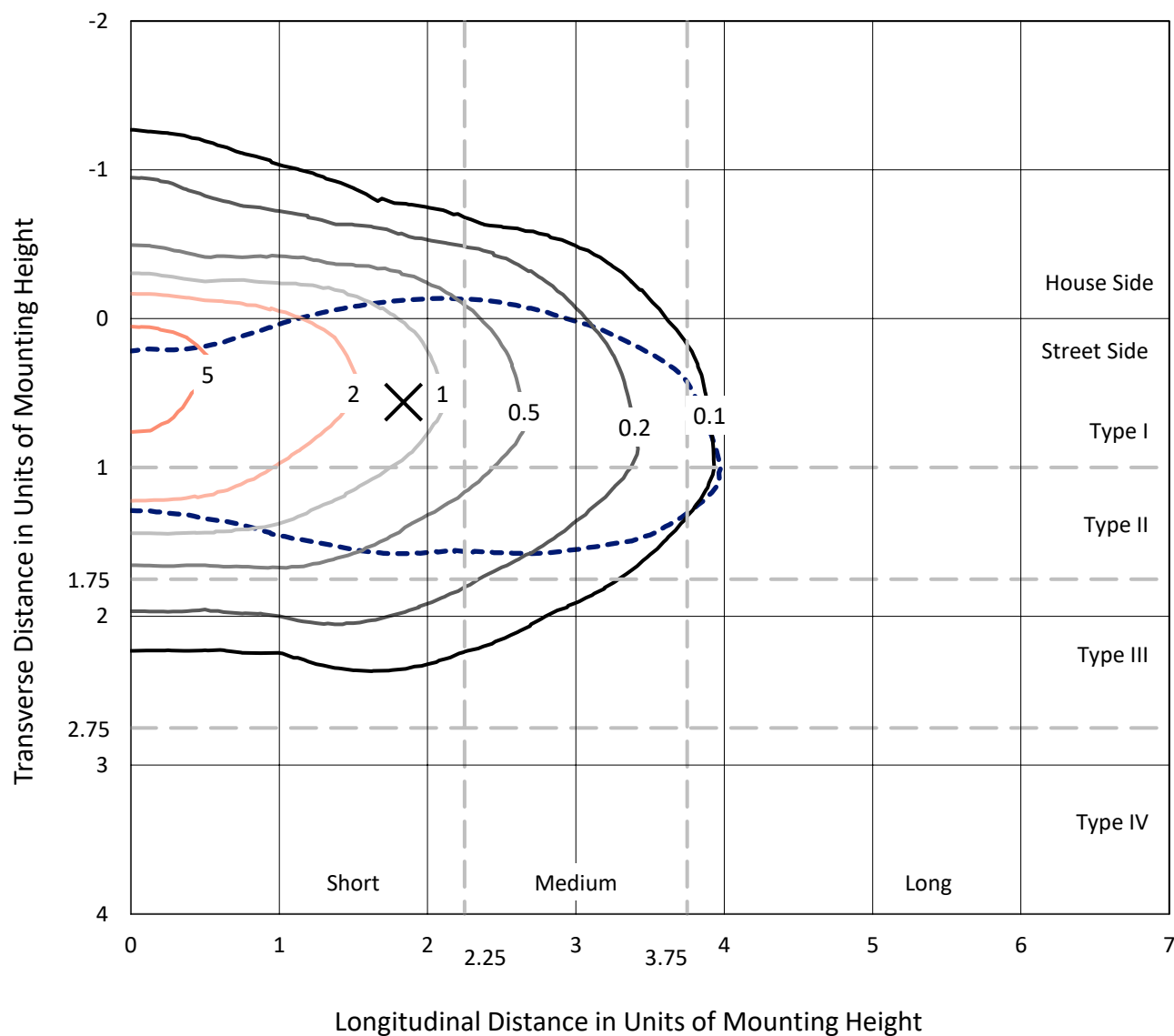
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

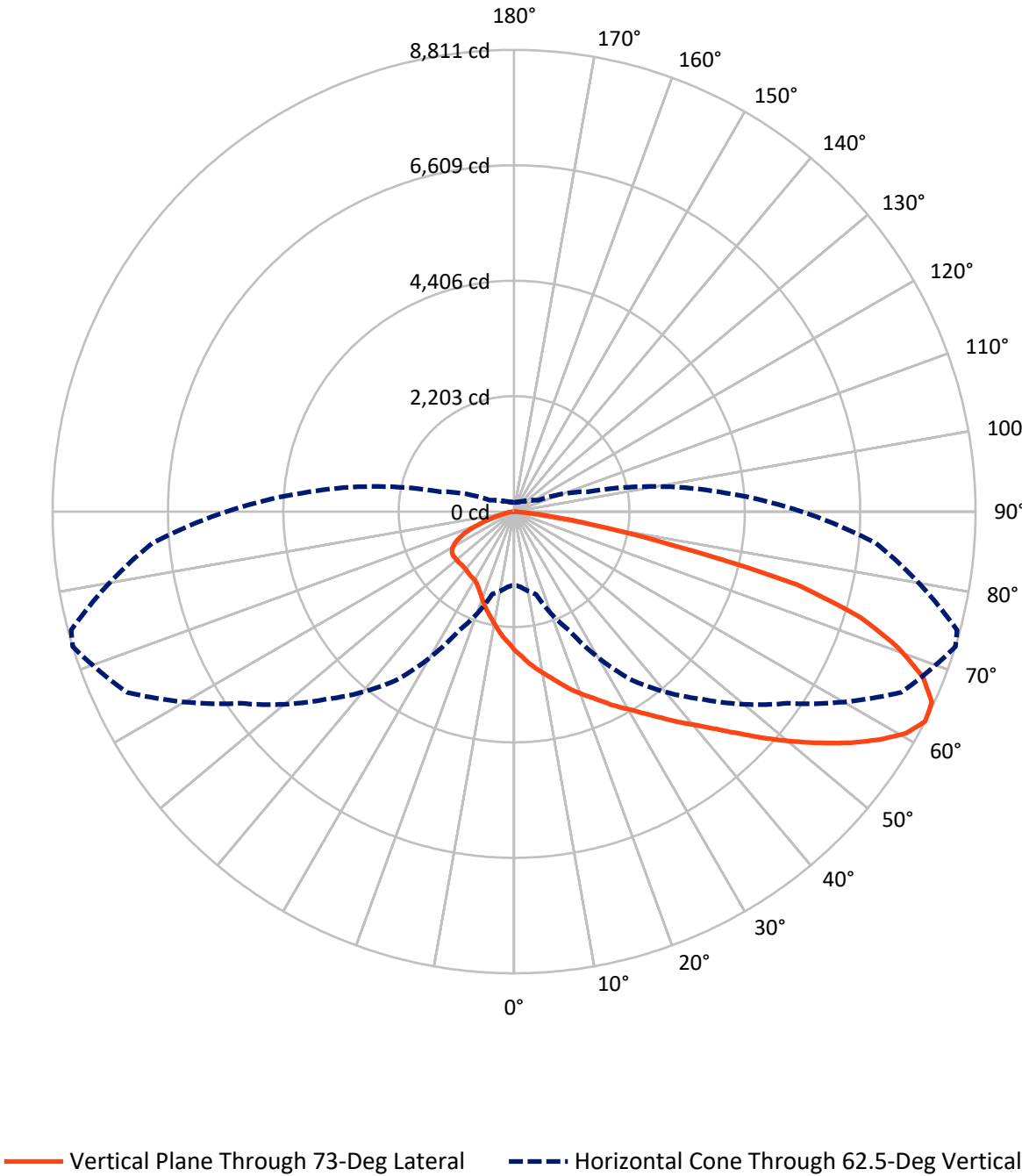
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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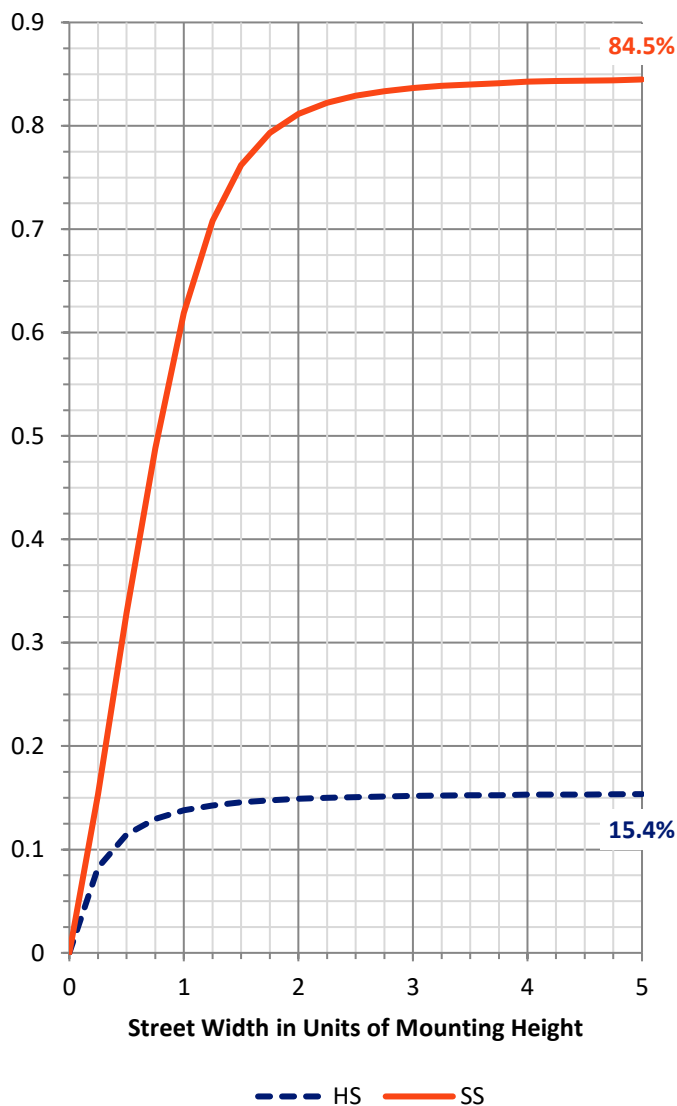
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2172.1	0.0	2172.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11839.9	0.0	11839.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	14012.0	0.0	14012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.8
10°-20°	773.4	5.5
20°-30°	1287.4	9.2
30°-40°	1942.5	13.9
40°-50°	2715.1	19.4
50°-60°	2999.0	21.4
60°-70°	2612.6	18.6
70°-80°	1319.7	9.4
80°-90°	105.9	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°	14012.0	100.0
0°-180°	14012.0	100.0

Coefficient of Utilization



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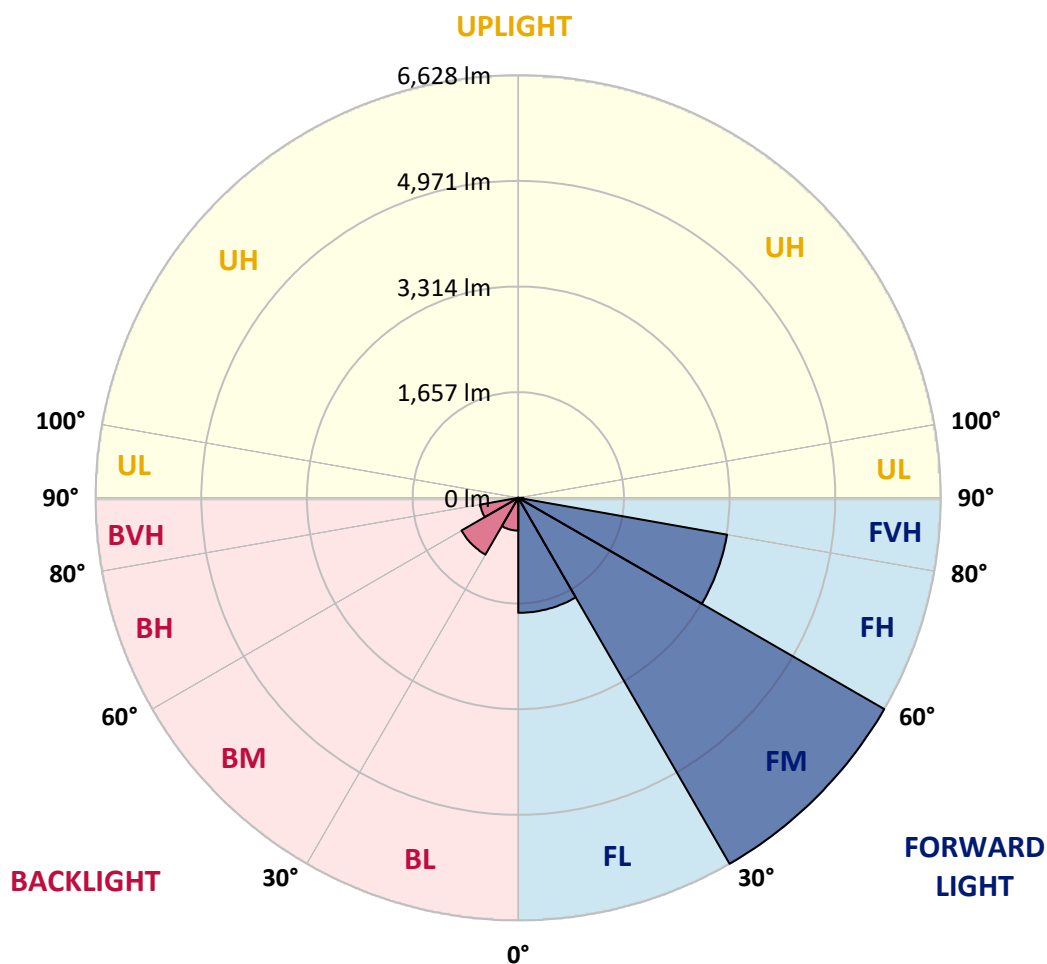
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1803.8	12.9			
FM	(30°-60°)	6628.2	47.3			
FH	(60°-80°)	3326.0	23.7			G2/5000
FVH	(80°-90°)	82.0	0.6			G1/100
BL	(0°-30°)	513.4	3.7	B2/1000		
BM	(30°-60°)	1028.5	7.3	B2/2500		
BH	(60°-80°)	606.3	4.3	B2/1000		G2/1000
BVH	(80°-90°)	24.0	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°	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	3019.6	3053.2	3034.8	3047.1	2986.0	2946.3	2900.5	2812.0	2763.1	2757.0	2699.0
5°	3462.3	3498.9	3468.4	3459.2	3352.4	3260.8	3157.0	3001.3	2897.5	2879.1	2750.9
7.5°	3905.0	3938.6	3901.9	3874.5	3731.0	3569.2	3416.5	3187.5	3025.7	2995.2	2793.6
10°	4216.4	4247.0	4219.5	4192.0	4042.4	3877.5	3660.7	3361.5	3141.7	3092.9	2821.1
12.5°	4451.5	4469.8	4457.6	4433.2	4292.8	4115.7	3908.1	3556.9	3273.0	3211.9	2863.9
15°	4643.9	4674.4	4659.1	4640.8	4506.5	4329.4	4130.9	3761.5	3425.7	3349.3	2928.0
17.5°	4772.1	4793.5	4796.5	4796.5	4677.5	4503.4	4311.1	3947.7	3578.3	3480.6	2989.1
20°	4830.1	4854.5	4869.8	4894.2	4796.5	4646.9	4451.5	4106.5	3721.8	3611.9	3047.1
22.5°	4857.6	4879.0	4918.7	4973.6	4894.2	4769.0	4588.9	4253.1	3865.3	3749.3	3114.2
25°	4879.0	4906.4	4964.4	5068.3	5013.3	4906.4	4750.7	4421.0	4036.3	3917.2	3211.9
27.5°	4937.0	4970.6	5025.5	5150.7	5083.5	5031.6	4921.7	4601.1	4216.4	4094.3	3331.0
30°	5138.5	5166.0	5162.9	5242.3	5159.9	5144.6	5068.3	4775.2	4390.5	4268.3	3471.5
32.5°	5504.9	5532.3	5465.2	5434.6	5254.5	5257.6	5227.0	4961.4	4598.1	4472.9	3633.3
35°	5898.7	5929.2	5840.7	5788.8	5486.5	5398.0	5413.3	5193.4	4830.1	4704.9	3834.8
37.5°	6249.8	6286.5	6210.1	6133.8	5828.5	5623.9	5620.9	5453.0	5095.7	4967.5	4057.7
40°	6442.2	6484.9	6530.7	6488.0	6167.4	5941.5	5843.8	5718.6	5358.3	5227.0	4298.9
42.5°	6533.8	6652.9	6735.3	6707.8	6445.2	6216.2	6100.2	5996.4	5678.9	5550.7	4585.9
45°	6277.3	6280.4	6454.4	6604.0	6555.1	6402.5	6381.1	6307.8	6045.3	5923.1	4909.5
47.5°	5956.7	5932.3	6054.4	6320.1	6457.4	6497.1	6622.3	6652.9	6463.6	6341.4	5239.2
50°	5187.3	5202.6	5599.5	5981.2	6249.8	6506.3	6793.3	7007.0	6894.1	6778.0	5587.3
52.5°	4219.5	4256.1	4711.0	5550.7	5975.0	6414.7	6894.1	7361.2	7333.7	7223.8	5935.4
55°	3382.9	3440.9	3923.3	4833.2	5623.9	6210.1	6936.8	7684.8	7788.6	7687.9	6277.3
57.5°	2586.0	2647.1	3053.2	3987.4	5175.1	5877.3	6906.3	7968.8	8213.0	8148.9	6591.8
60°	1947.9	2009.0	2268.5	3233.3	4613.3	5504.9	6753.6	8155.0	8594.7	8527.5	6820.8
62.5°	1395.3	1444.1	1636.5	2515.8	3929.4	5062.2	6378.1	8158.1	8811.4	8756.5	6930.7
65°	1004.5	1004.5	1160.2	1795.3	3288.3	4530.9	5810.2	7782.5	8765.6	8750.4	6854.4
67.5°	723.6	729.7	854.9	1254.9	2622.7	3886.7	5074.4	7113.9	8411.5	8487.8	6579.6
70°	512.9	528.2	586.2	876.3	1981.5	3068.4	4286.6	6237.6	7773.4	7907.7	6048.3
72.5°	396.9	406.1	445.8	610.6	1447.2	2280.7	3416.5	5260.6	6921.5	7074.2	5324.7
75°	305.3	314.5	345.0	448.8	1038.1	1599.9	2427.3	4082.1	5581.2	5852.9	4277.5
77.5°	222.9	235.1	256.5	326.7	604.5	1016.7	1471.6	2296.0	3080.6	3208.9	2241.0
80°	103.8	119.1	149.6	210.7	326.7	479.3	522.1	885.4	1480.8	1548.0	1215.2
82.5°	58.0	73.3	85.5	128.2	164.9	171.0	177.1	222.9	558.7	616.7	509.9
85°	27.5	36.6	39.7	55.0	55.0	48.9	58.0	42.7	91.6	109.9	106.9
87.5°	0.0	3.1	6.1	15.3	12.2	9.2	9.2	9.2	9.2	12.2	9.2
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°	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	2671.5	2631.8	2540.2	2460.9	2408.9	2363.2	2302.1	2274.6	2225.8	2234.9	2207.4
5°	2686.8	2613.5	2451.7	2302.1	2192.2	2094.5	1987.6	1926.5	1859.4	1853.3	1831.9
7.5°	2695.9	2583.0	2350.9	2140.3	1972.3	1822.7	1679.2	1599.9	1517.4	1499.1	1480.8
10°	2686.8	2537.2	2247.1	1972.3	1749.5	1563.2	1401.4	1300.6	1215.2	1193.8	1175.5
12.5°	2695.9	2512.8	2149.4	1816.6	1551.0	1340.3	1157.2	1053.3	974.0	952.6	940.4
15°	2717.3	2497.5	2067.0	1676.2	1373.9	1138.8	958.7	870.2	806.0	784.7	778.6
17.5°	2735.6	2482.2	1978.5	1538.8	1196.8	961.7	806.0	732.8	677.8	656.4	650.3
20°	2760.1	2460.9	1889.9	1407.5	1041.1	821.3	683.9	619.8	577.0	561.8	558.7
22.5°	2781.4	2445.6	1807.5	1276.2	897.6	708.3	592.3	540.4	509.9	494.6	494.6
25°	2836.4	2451.7	1737.3	1154.1	790.8	619.8	522.1	482.4	458.0	448.8	448.8
27.5°	2900.5	2476.1	1682.3	1050.3	699.2	552.6	473.2	439.7	427.4	415.2	418.3
30°	2992.1	2525.0	1645.7	964.8	632.0	500.7	433.5	409.1	396.9	393.9	393.9
32.5°	3108.1	2604.4	1642.6	909.8	583.2	461.0	406.1	384.7	378.6	375.5	375.5
35°	3245.5	2674.6	1624.3	885.4	552.6	433.5	384.7	369.4	366.4	366.4	366.4
37.5°	3410.4	2790.6	1612.1	851.8	537.4	418.3	369.4	357.2	357.2	357.2	357.2
40°	3581.4	2885.2	1593.8	821.3	531.3	409.1	360.3	345.0	345.0	345.0	345.0
42.5°	3785.9	3022.6	1587.6	806.0	522.1	403.0	348.1	329.7	332.8	332.8	335.8
45°	4033.2	3178.3	1584.6	790.8	519.0	396.9	335.8	314.5	317.5	314.5	314.5
47.5°	4283.6	3358.5	1593.8	781.6	516.0	390.8	326.7	299.2	299.2	296.2	296.2
50°	4546.2	3523.4	1599.9	772.5	509.9	378.6	311.4	287.0	280.9	274.8	277.8
52.5°	4793.5	3676.0	1602.9	757.2	491.6	360.3	299.2	271.7	262.6	253.4	256.5
55°	5040.8	3822.6	1609.0	738.9	467.1	342.0	283.9	256.5	244.3	232.0	232.0
57.5°	5263.7	3950.8	1593.8	693.1	439.7	323.6	268.7	238.1	219.8	207.6	207.6
60°	5416.3	4042.4	1548.0	625.9	403.0	302.3	253.4	219.8	198.5	189.3	189.3
62.5°	5489.6	4057.7	1465.5	516.0	357.2	280.9	235.1	201.5	183.2	177.1	177.1
65°	5419.4	3990.5	1337.3	387.8	308.4	256.5	216.8	186.2	167.9	152.7	152.7
67.5°	5175.1	3801.2	1160.2	293.1	262.6	232.0	198.5	171.0	149.6	137.4	137.4
70°	4683.6	3407.3	897.6	235.1	222.9	201.5	180.1	152.7	134.3	119.1	119.1
72.5°	4039.3	2888.3	632.0	189.3	189.3	171.0	152.7	134.3	116.0	103.8	103.8
75°	3099.0	2137.2	424.4	152.7	155.7	143.5	125.2	109.9	97.7	88.5	88.5
77.5°	1691.5	1056.4	259.5	113.0	116.0	109.9	97.7	88.5	82.4	73.3	73.3
80°	821.3	464.1	149.6	79.4	82.4	79.4	73.3	64.1	64.1	58.0	58.0
82.5°	345.0	174.0	79.4	55.0	55.0	48.9	45.8	45.8	45.8	42.7	42.7
85°	85.5	33.6	33.6	30.5	30.5	30.5	27.5	27.5	27.5	21.4	24.4
87.5°	12.2	12.2	12.2	12.2	12.2	12.2	9.2	3.1	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)