

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: P836200

Luminaire Tested: **ARCH3-150-740-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15392 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

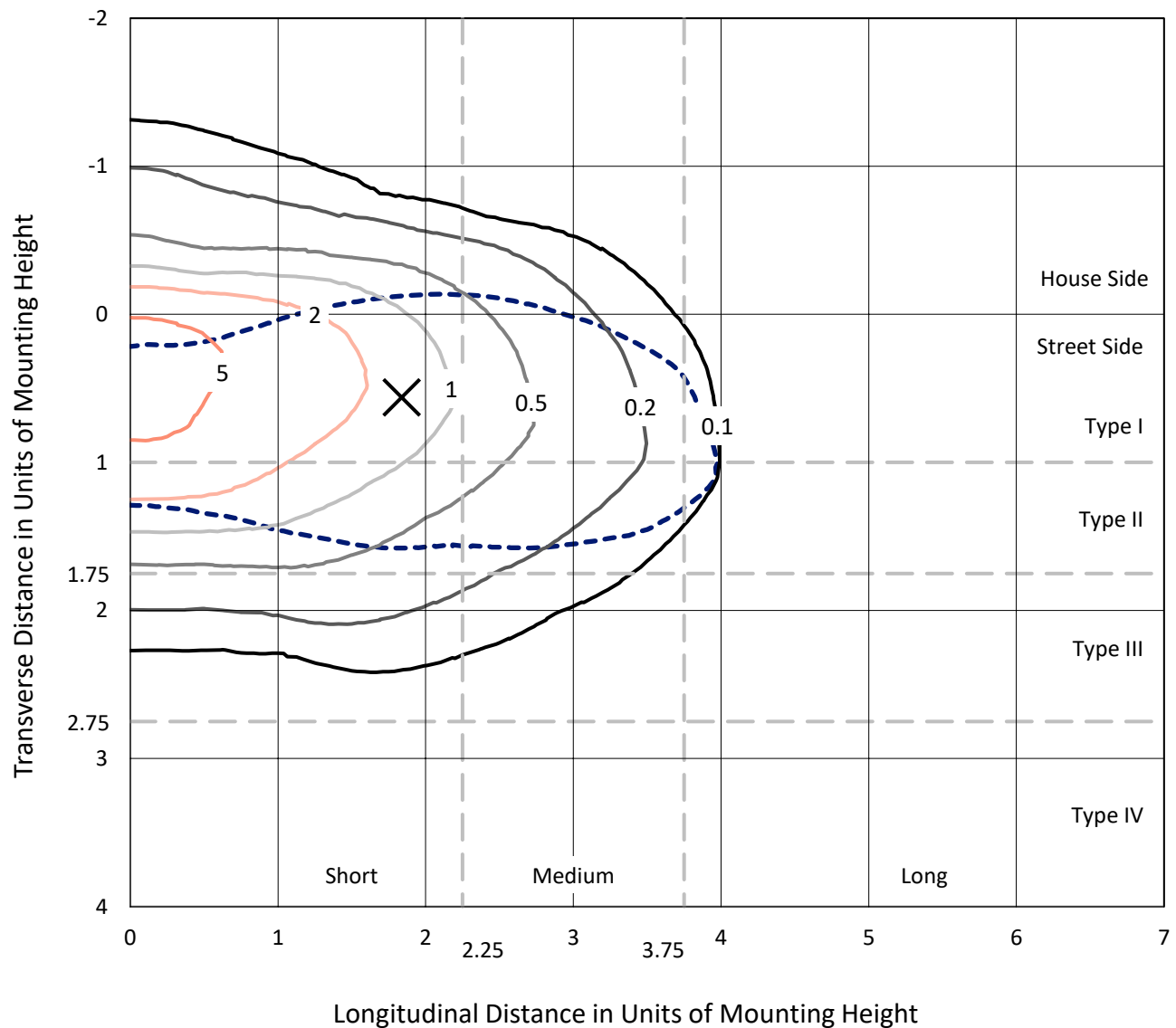
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

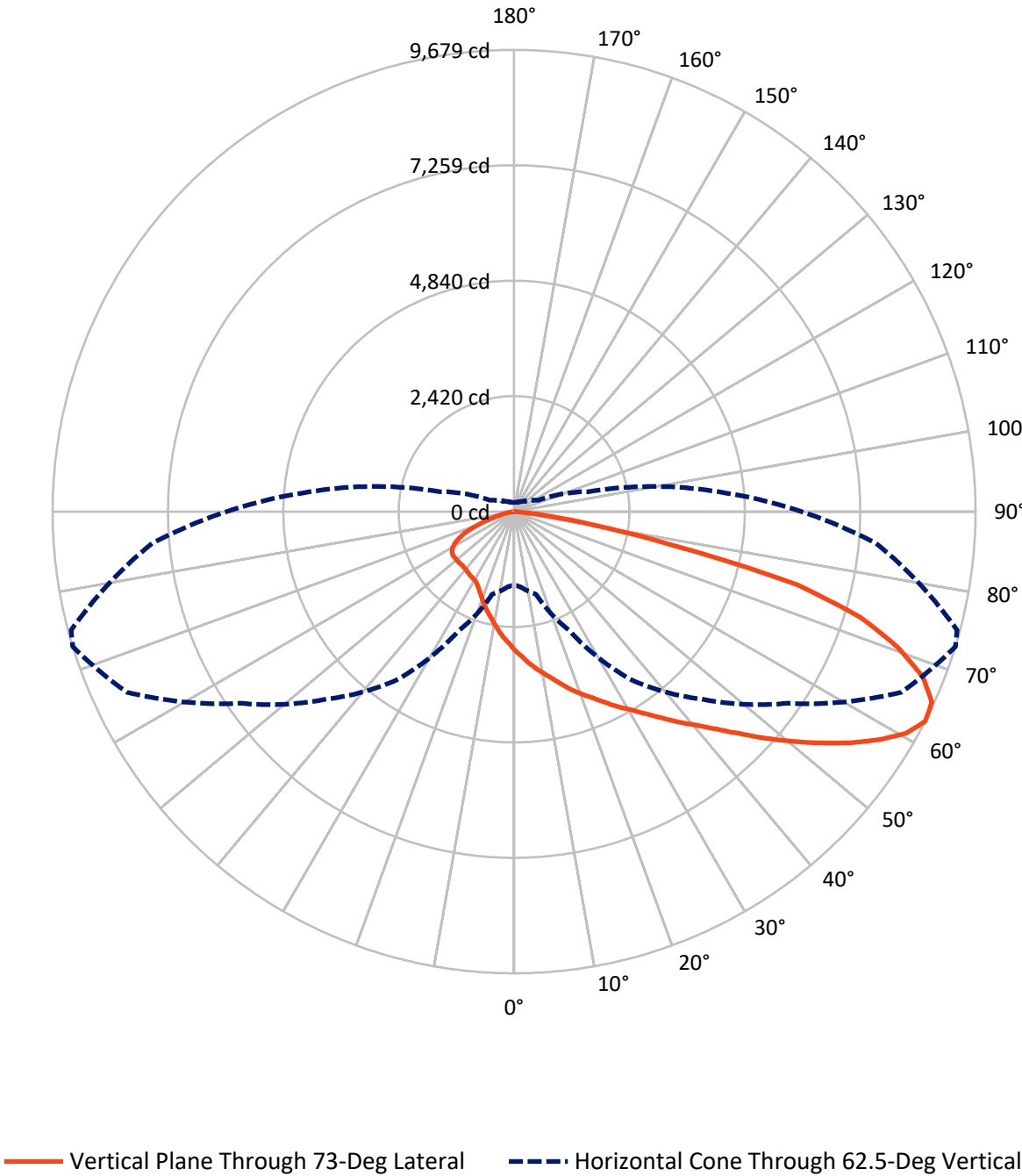
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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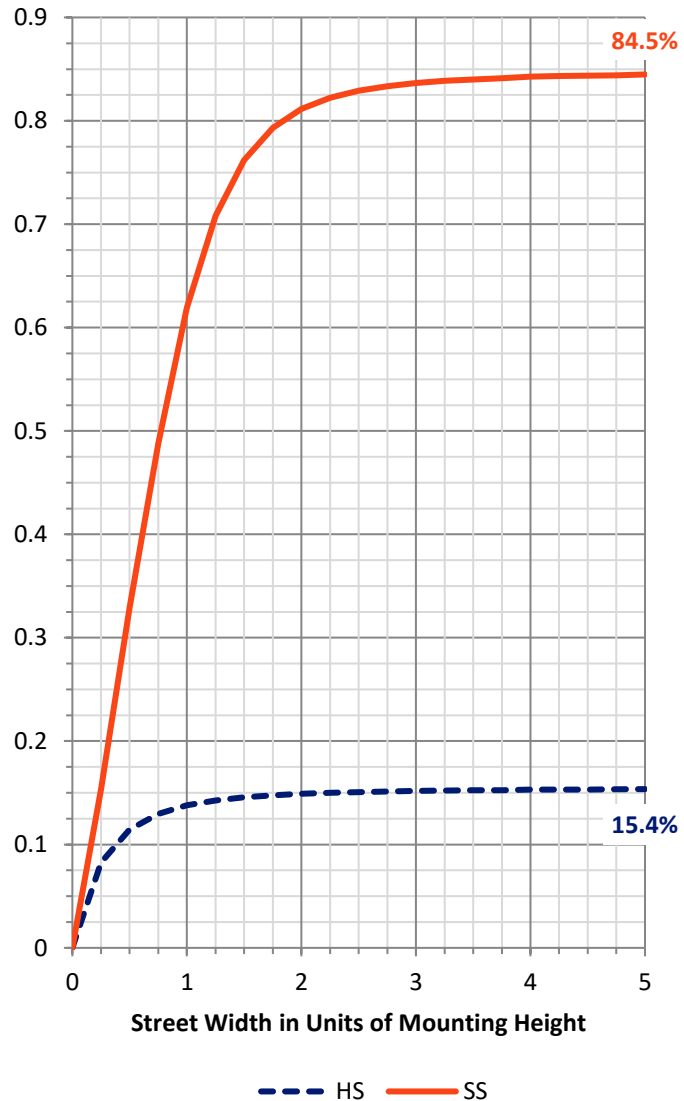
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2386.0	0.0	2386.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	13006.0	0.0	13006.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	15392.0	0.0	15392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.6	1.8
10°-20°	849.6	5.5
20°-30°	1414.2	9.2
30°-40°	2133.8	13.9
40°-50°	2982.5	19.4
50°-60°	3294.4	21.4
60°-70°	2869.8	18.6
70°-80°	1449.7	9.4
80°-90°	116.4	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°	15392.0	100.0
0°-180°	15392.0	100.0

Coefficient of Utilization



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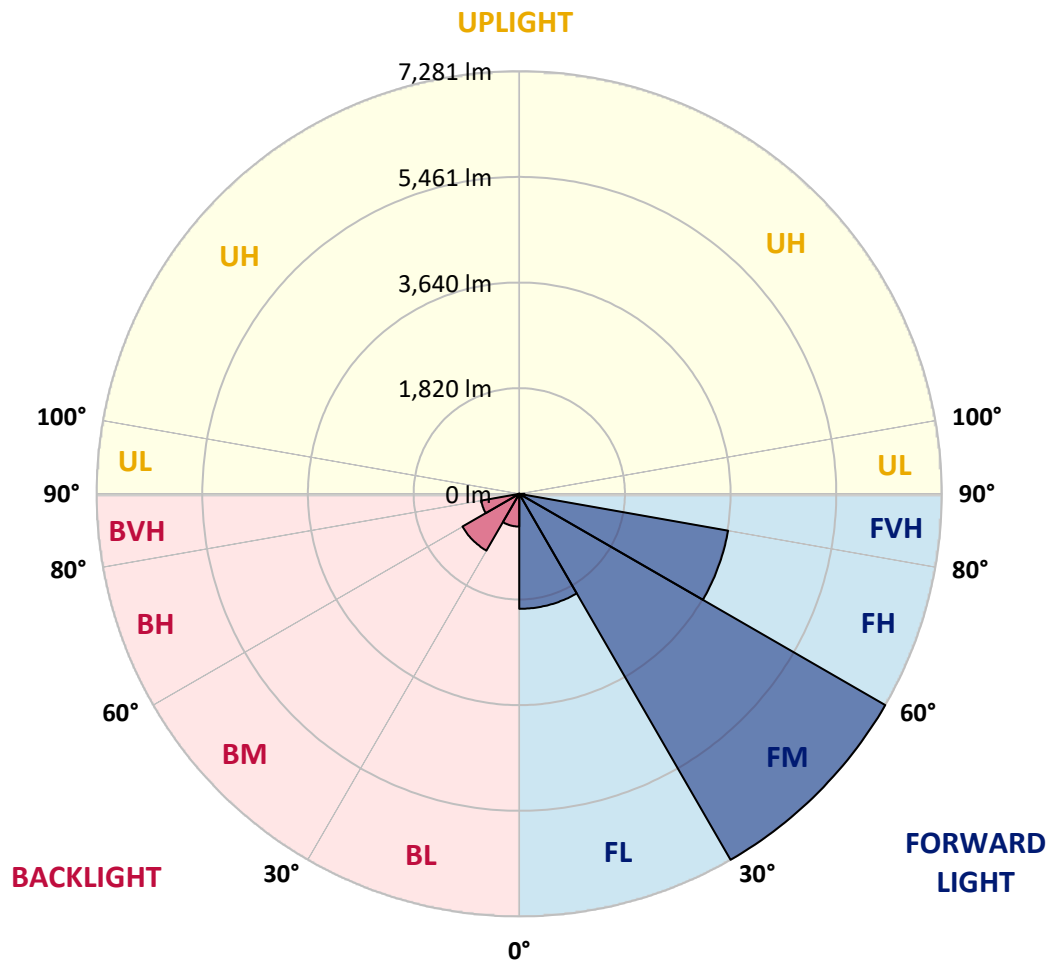
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1981.4	12.9			
FM	(30°-60°)	7281.0	47.3			
FH	(60°-80°)	3653.6	23.7			G2/5000
FVH	(80°-90°)	90.1	0.6			G1/100
BL	(0°-30°)	563.9	3.7	B2/1000		
BM	(30°-60°)	1129.8	7.3	B2/2500		
BH	(60°-80°)	666.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	26.3	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°	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5
2.5°	3317.0	3353.9	3333.7	3347.2	3280.1	3236.5	3186.2	3088.9	3035.2	3028.5	2964.8
5°	3803.3	3843.5	3810.0	3799.9	3682.5	3581.9	3467.9	3296.8	3182.8	3162.7	3021.8
7.5°	4289.6	4326.5	4286.2	4256.1	4098.4	3920.7	3753.0	3501.4	3323.7	3290.1	3068.8
10°	4631.7	4665.2	4635.0	4604.9	4440.5	4259.4	4021.3	3692.6	3451.1	3397.5	3099.0
12.5°	4889.9	4910.1	4896.6	4869.8	4715.5	4521.0	4292.9	3907.3	3595.3	3528.3	3145.9
15°	5101.2	5134.8	5118.0	5097.9	4950.3	4755.8	4537.8	4132.0	3763.0	3679.2	3216.4
17.5°	5242.1	5265.6	5268.9	5268.9	5138.1	4946.9	4735.7	4336.5	3930.7	3823.4	3283.4
20°	5305.8	5332.6	5349.4	5376.2	5268.9	5104.6	4889.9	4510.9	4088.4	3967.6	3347.2
22.5°	5336.0	5359.5	5403.1	5463.4	5376.2	5238.7	5040.9	4671.9	4246.0	4118.5	3420.9
25°	5359.5	5389.7	5453.4	5567.4	5507.0	5389.7	5218.6	4856.4	4433.8	4303.0	3528.3
27.5°	5423.2	5460.1	5520.5	5658.0	5584.2	5527.2	5406.4	5054.3	4631.7	4497.5	3659.1
30°	5644.6	5674.7	5671.4	5758.6	5668.0	5651.3	5567.4	5245.4	4822.9	4688.7	3813.3
32.5°	6047.0	6077.2	6003.4	5969.9	5772.0	5775.4	5741.8	5450.0	5050.9	4913.4	3991.1
35°	6479.7	6513.2	6415.9	6358.9	6026.9	5929.6	5946.4	5704.9	5305.8	5168.3	4212.5
37.5°	6865.4	6905.6	6821.8	6737.9	6402.5	6177.8	6174.5	5990.0	5597.6	5456.7	4457.3
40°	7076.7	7123.6	7173.9	7127.0	6774.8	6526.6	6419.3	6281.8	5886.0	5741.8	4722.2
42.5°	7177.3	7308.1	7398.6	7368.4	7080.0	6828.5	6701.0	6587.0	6238.2	6097.3	5037.5
45°	6895.5	6898.9	7090.1	7254.4	7200.7	7033.1	7009.6	6929.1	6640.7	6506.5	5393.0
47.5°	6543.4	6516.6	6650.7	6942.5	7093.4	7137.0	7274.5	7308.1	7100.1	6966.0	5755.2
50°	5698.2	5715.0	6151.0	6570.2	6865.4	7147.1	7462.3	7697.1	7573.0	7445.6	6137.6
52.5°	4635.0	4675.3	5175.0	6097.3	6563.5	7046.5	7573.0	8086.2	8056.0	7935.2	6519.9
55°	3716.1	3779.8	4309.7	5309.2	6177.8	6821.8	7620.0	8441.7	8555.7	8445.0	6895.5
57.5°	2840.7	2907.8	3353.9	4380.1	5684.8	6456.2	7586.4	8753.6	9021.9	8951.5	7241.0
60°	2139.8	2206.8	2491.9	3551.7	5067.7	6047.0	7418.7	8958.2	9441.1	9367.3	7492.5
62.5°	1532.7	1586.4	1797.7	2763.6	4316.4	5560.7	7006.2	8961.5	9679.3	9618.9	7613.3
65°	1103.4	1103.4	1274.5	1972.1	3612.1	4977.1	6382.4	8549.0	9628.9	9612.2	7529.4
67.5°	794.9	801.6	939.1	1378.4	2881.0	4269.5	5574.1	7814.5	9239.9	9323.7	7227.6
70°	563.4	580.2	643.9	962.6	2176.7	3370.6	4708.8	6851.9	8538.9	8686.5	6644.0
72.5°	436.0	446.1	489.7	670.8	1589.7	2505.3	3753.0	5778.7	7603.2	7770.9	5849.1
75°	335.4	345.4	379.0	493.0	1140.3	1757.4	2666.3	4484.1	6130.9	6429.4	4698.8
77.5°	244.8	258.2	281.7	358.9	664.1	1116.8	1616.6	2522.1	3384.0	3524.9	2461.7
80°	114.0	130.8	164.3	231.4	358.9	526.6	573.5	972.6	1626.6	1700.4	1334.8
82.5°	63.7	80.5	93.9	140.9	181.1	187.8	194.5	244.8	613.8	677.5	560.1
85°	30.2	40.2	43.6	60.4	60.4	53.7	63.7	47.0	100.6	120.7	117.4
87.5°	0.0	3.4	6.7	16.8	13.4	10.1	10.1	10.1	10.1	13.4	10.1
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°	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5	2914.5
2.5°	2934.6	2891.0	2790.4	2703.2	2646.2	2595.9	2528.8	2498.6	2445.0	2455.0	2424.8
5°	2951.4	2870.9	2693.2	2528.8	2408.1	2300.8	2183.4	2116.3	2042.5	2035.8	2012.3
7.5°	2961.5	2837.4	2582.5	2351.1	2166.6	2002.3	1844.6	1757.4	1666.9	1646.7	1626.6
10°	2951.4	2787.1	2468.4	2166.6	1921.8	1717.2	1539.4	1428.7	1334.8	1311.4	1291.2
12.5°	2961.5	2760.2	2361.1	1995.5	1703.8	1472.3	1271.1	1157.1	1069.9	1046.4	1033.0
15°	2984.9	2743.5	2270.6	1841.3	1509.2	1251.0	1053.1	955.9	885.4	861.9	855.2
17.5°	3005.1	2726.7	2173.3	1690.3	1314.7	1056.5	885.4	804.9	744.6	721.1	714.4
20°	3031.9	2703.2	2076.0	1546.1	1143.7	902.2	751.3	680.8	633.9	617.1	613.8
22.5°	3055.4	2686.4	1985.5	1401.9	986.0	778.1	650.6	593.6	560.1	543.3	543.3
25°	3115.7	2693.2	1908.3	1267.8	868.7	680.8	573.5	529.9	503.1	493.0	493.0
27.5°	3186.2	2720.0	1848.0	1153.7	768.0	607.0	519.8	483.0	469.5	456.1	459.5
30°	3286.8	2773.6	1807.7	1059.8	694.2	550.0	476.2	449.4	436.0	432.6	432.6
32.5°	3414.2	2860.8	1804.4	999.5	640.6	506.4	446.1	422.6	415.9	412.5	412.5
35°	3565.2	2938.0	1784.3	972.6	607.0	476.2	422.6	405.8	402.5	402.5	402.5
37.5°	3746.3	3065.4	1770.8	935.7	590.3	459.5	405.8	392.4	392.4	392.4	392.4
40°	3934.1	3169.4	1750.7	902.2	583.6	449.4	395.8	379.0	379.0	379.0	379.0
42.5°	4158.8	3320.3	1744.0	885.4	573.5	442.7	382.3	362.2	365.6	365.6	368.9
45°	4430.5	3491.4	1740.7	868.7	570.2	436.0	368.9	345.4	348.8	345.4	345.4
47.5°	4705.5	3689.3	1750.7	858.6	566.8	429.3	358.9	328.7	328.7	325.3	325.3
50°	4993.9	3870.4	1757.4	848.5	560.1	415.9	342.1	315.3	308.6	301.8	305.2
52.5°	5265.6	4038.1	1760.8	831.8	540.0	395.8	328.7	298.5	288.4	278.4	281.7
55°	5537.2	4199.0	1767.5	811.6	513.1	375.6	311.9	281.7	268.3	254.9	254.9
57.5°	5782.1	4339.9	1750.7	761.3	483.0	355.5	295.1	261.6	241.5	228.1	228.1
60°	5949.8	4440.5	1700.4	687.5	442.7	332.0	278.4	241.5	218.0	207.9	207.9
62.5°	6030.2	4457.3	1609.9	566.8	392.4	308.6	258.2	221.4	201.2	194.5	194.5
65°	5953.1	4383.5	1469.0	425.9	338.7	281.7	238.1	204.6	184.5	167.7	167.7
67.5°	5684.8	4175.6	1274.5	322.0	288.4	254.9	218.0	187.8	164.3	150.9	150.9
70°	5144.8	3742.9	986.0	258.2	244.8	221.4	197.9	167.7	147.6	130.8	130.8
72.5°	4437.2	3172.8	694.2	207.9	207.9	187.8	167.7	147.6	127.4	114.0	114.0
75°	3404.2	2347.7	466.2	167.7	171.0	157.6	137.5	120.7	107.3	97.3	97.3
77.5°	1858.0	1160.4	285.1	124.1	127.4	120.7	107.3	97.3	90.6	80.5	80.5
80°	902.2	509.8	164.3	87.2	90.6	87.2	80.5	70.4	70.4	63.7	63.7
82.5°	379.0	191.2	87.2	60.4	60.4	53.7	50.3	50.3	50.3	47.0	47.0
85°	93.9	36.9	36.9	33.5	33.5	33.5	30.2	30.2	30.2	23.5	26.8
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	10.1	3.4	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)