

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: P841268

Luminaire Tested: **ARCH4-150-750-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-750-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17914 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

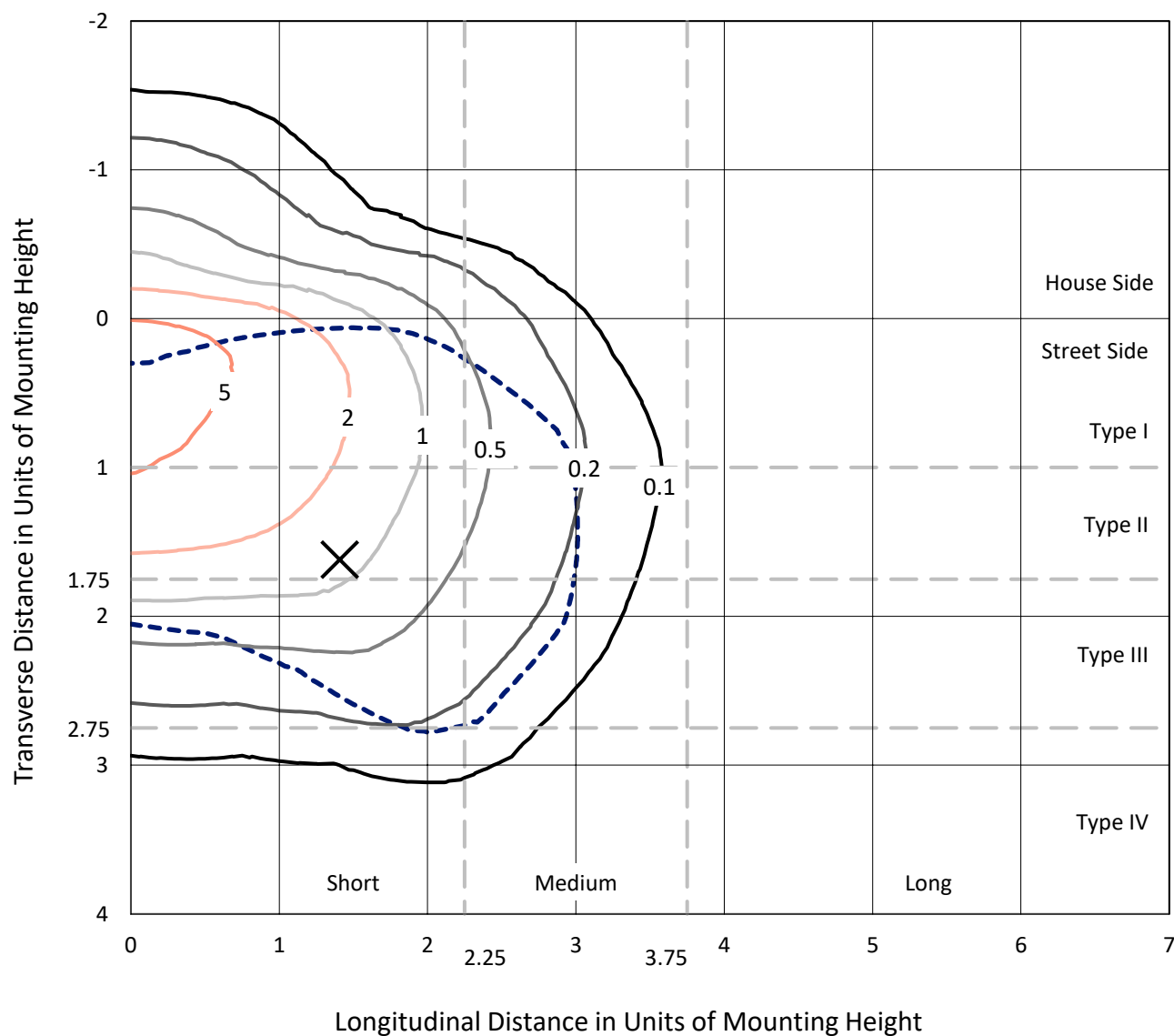
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

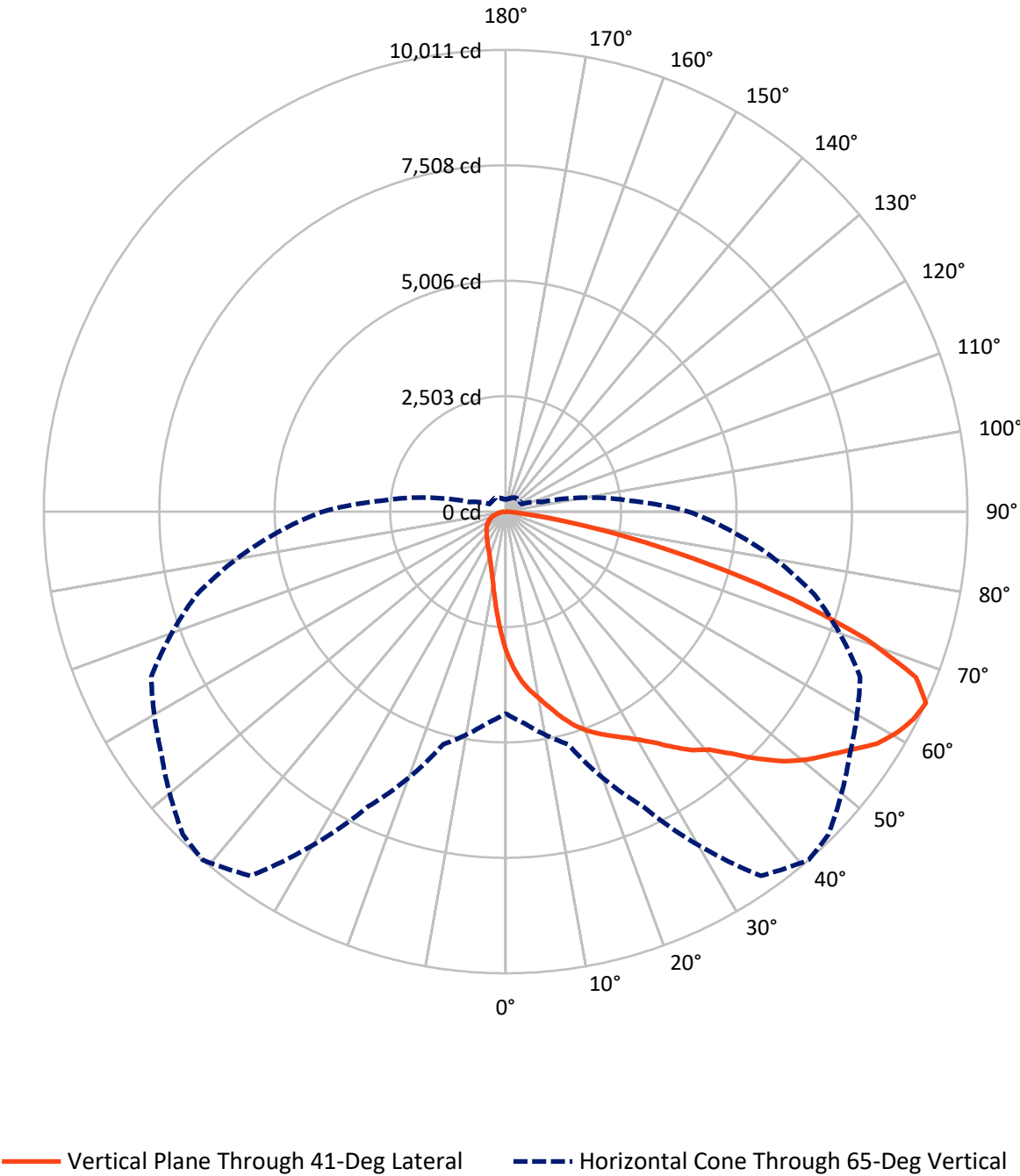
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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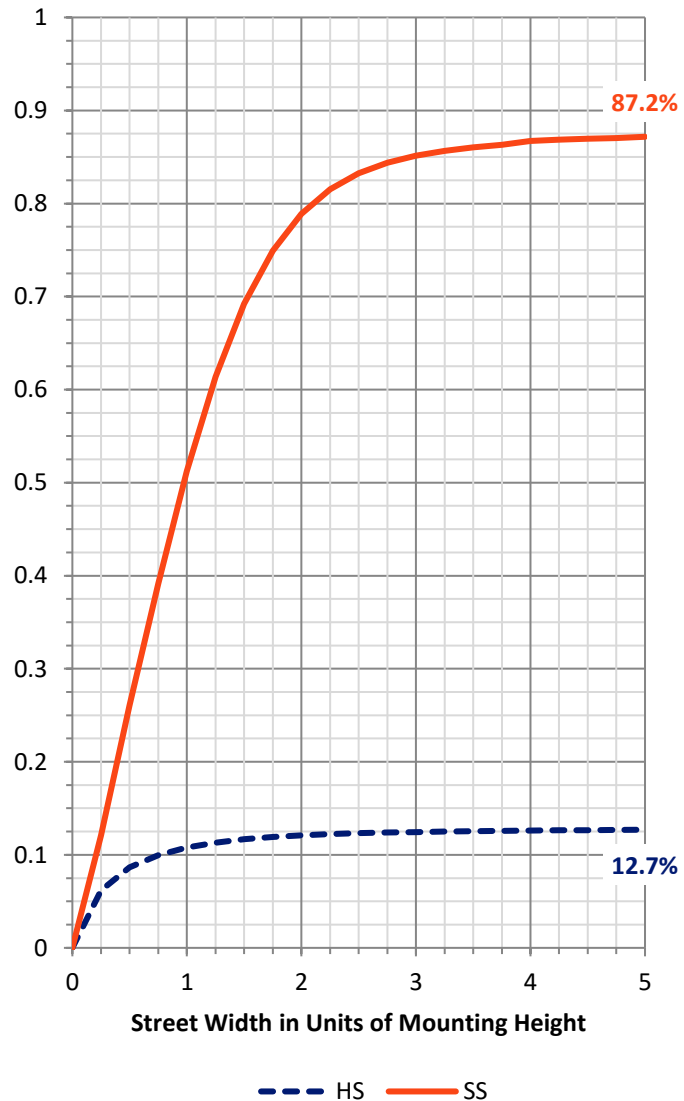
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2299.9	0.0	2299.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	15614.1	0.0	15614.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	17914.0	0.0	17914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.4	1.6
10°-20°	852.8	4.8
20°-30°	1467.2	8.2
30°-40°	2225.2	12.4
40°-50°	3259.9	18.2
50°-60°	4116.6	23.0
60°-70°	3860.1	21.5
70°-80°	1720.4	9.6
80°-90°	127.4	0.7
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°	17914.0	100.0
0°-180°	17914.0	100.0

Coefficient of Utilization



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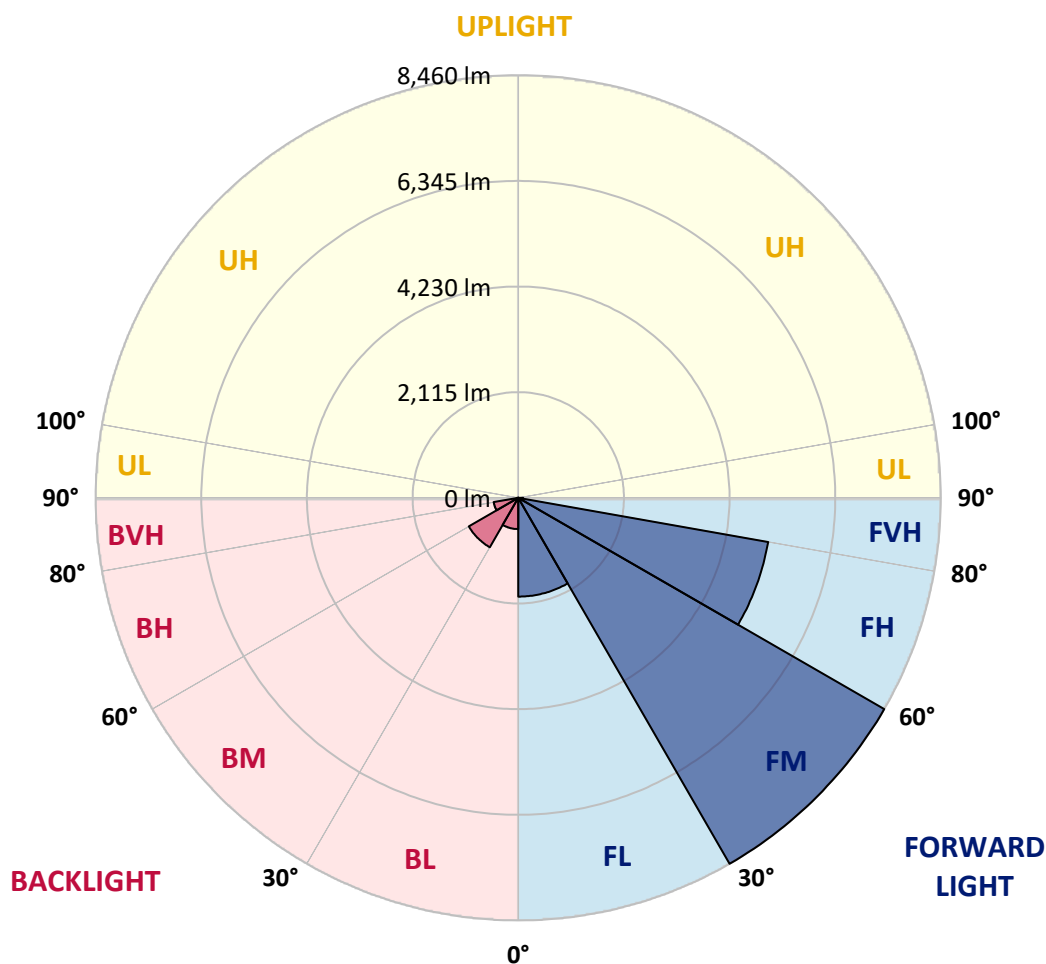
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1978.4	11.0			
FM	(30°-60°)	8459.7	47.2			
FH	(60°-80°)	5080.9	28.4			G3/7500
FVH	(80°-90°)	95.2	0.5			G1/100
BL	(0°-30°)	626.0	3.5	B2/1000		
BM	(30°-60°)	1142.0	6.4	B2/2500		
BH	(60°-80°)	499.6	2.8	B1/500		G1/500
BVH	(80°-90°)	32.3	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5
2.5°	3520.9	3509.6	3502.0	3460.5	3460.5	3403.8	3407.6	3354.7	3290.5	3188.5	3078.9
5°	3853.3	3838.2	3819.3	3777.8	3762.7	3706.0	3698.5	3622.9	3513.3	3335.8	3139.3
7.5°	4144.2	4129.1	4102.7	4042.2	4000.7	3932.7	3913.8	3815.6	3694.7	3475.6	3199.8
10°	4408.7	4397.3	4363.3	4287.8	4231.1	4148.0	4114.0	3981.8	3830.7	3588.9	3248.9
12.5°	4676.9	4661.8	4616.5	4552.2	4484.2	4386.0	4344.5	4174.5	3981.8	3713.6	3320.7
15°	4926.2	4903.6	4869.6	4801.6	4741.1	4646.7	4601.3	4401.1	4166.9	3853.3	3415.1
17.5°	5088.7	5069.8	5039.6	5001.8	4952.7	4880.9	4835.6	4639.1	4352.0	3989.3	3513.3
20°	5186.9	5179.3	5168.0	5145.3	5122.7	5073.6	5039.6	4854.5	4552.2	4121.6	3607.8
22.5°	5262.5	5254.9	5251.1	5251.1	5254.9	5236.0	5213.3	5054.7	4744.9	4261.3	3694.7
25°	5379.6	5375.8	5368.2	5360.7	5387.1	5390.9	5383.3	5273.8	4986.7	4446.5	3804.2
27.5°	5542.0	5530.7	5515.6	5508.0	5534.5	5553.3	5568.5	5492.9	5243.6	4635.3	3928.9
30°	5791.3	5757.3	5719.6	5693.1	5712.0	5742.2	5776.2	5730.9	5508.0	4869.6	4057.3
32.5°	6086.0	6044.5	5957.6	5908.5	5957.6	5980.2	6006.7	5984.0	5783.8	5122.7	4185.8
35°	6444.9	6395.8	6305.1	6233.3	6320.2	6271.1	6259.8	6237.1	6044.5	5372.0	4329.3
37.5°	7041.8	6970.0	6826.5	6667.8	6667.8	6562.0	6520.5	6452.5	6278.7	5594.9	4469.1
40°	7733.1	7638.7	7453.6	7219.4	7004.0	6784.9	6758.5	6709.3	6554.5	5851.8	4627.8
42.5°	8492.5	8311.1	8054.2	7770.9	7423.4	7174.0	7113.6	6973.8	6822.7	6112.5	4786.5
45°	9334.9	8957.1	8583.1	8439.6	7865.4	7638.7	7525.4	7272.2	7102.2	6384.5	4952.7
47.5°	9470.9	9176.2	8926.9	8904.2	8277.1	8088.2	7959.8	7597.1	7404.5	6675.3	5126.5
50°	9395.4	9217.8	9244.2	9153.6	8579.4	8454.7	8356.5	7944.7	7702.9	6954.9	5285.1
52.5°	9078.0	9176.2	9327.4	9161.1	8866.5	8764.5	8715.4	8318.7	7982.5	7211.8	5428.7
55°	8700.2	8768.2	9093.1	9297.1	9198.9	9108.2	9062.9	8753.1	8258.2	7427.1	5560.9
57.5°	8148.7	8118.5	8477.4	9274.5	9546.5	9493.6	9444.5	9180.0	8515.1	7582.0	5644.0
60°	7321.4	7257.1	7710.5	8821.1	9659.8	9742.9	9720.2	9463.4	8711.6	7578.2	5610.0
62.5°	5889.6	6048.2	6675.3	8080.7	9708.9	9920.5	9878.9	9486.0	8775.8	7359.1	5394.7
65°	4378.5	4605.1	5220.9	7060.7	9640.9	10011.1	9897.8	9115.8	8477.4	6924.7	4922.5
67.5°	3154.5	3354.7	3804.2	5810.2	8987.4	9595.6	9463.4	8511.4	7789.8	6308.9	4268.9
70°	2157.1	2300.7	2606.7	4231.1	7672.7	8296.0	8212.9	7608.5	6705.6	5576.0	3468.0
72.5°	1522.4	1582.9	1779.3	2791.8	5829.1	6509.1	6410.9	6259.8	5387.1	4635.3	2697.3
75°	1140.9	1178.7	1284.4	1805.8	3932.7	4510.7	4420.0	4506.9	4023.3	3509.6	1964.4
77.5°	430.7	468.4	729.1	1152.2	2327.1	2769.1	2678.5	2731.3	2236.4	1771.8	978.4
80°	117.1	124.7	241.8	547.8	1057.8	1378.9	1254.2	1076.7	831.1	816.0	517.6
82.5°	49.1	56.7	109.6	294.7	377.8	377.8	317.3	392.9	317.3	381.6	249.3
85°	18.9	22.7	26.4	75.6	49.1	52.9	56.7	75.6	64.2	79.3	56.7
87.5°	0.0	0.0	0.0	3.8	3.8	7.6	3.8	7.6	11.3	11.3	11.3
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°	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5	3052.5
2.5°	3033.6	2992.0	2931.6	2833.3	2731.3	2674.7	2602.9	2591.6	2516.0	2508.5	2478.2
5°	3052.5	2965.6	2810.7	2621.8	2436.7	2293.1	2187.3	2130.7	2021.1	2021.1	1990.9
7.5°	3067.6	2931.6	2682.2	2402.7	2149.6	1956.9	1813.3	1752.9	1654.7	1647.1	1624.4
10°	3071.3	2890.0	2542.5	2179.8	1870.0	1673.6	1533.8	1465.8	1378.9	1371.3	1356.2
12.5°	3101.6	2867.3	2417.8	1987.1	1669.8	1458.2	1322.2	1265.6	1197.6	1190.0	1174.9
15°	3150.7	2867.3	2312.0	1824.7	1492.2	1295.8	1178.7	1125.8	1076.7	1069.1	1061.6
17.5°	3199.8	2859.8	2206.2	1673.6	1344.9	1167.3	1065.3	1023.8	986.0	982.2	974.7
20°	3245.1	2856.0	2100.4	1545.1	1231.6	1061.6	982.2	944.4	914.2	914.2	910.4
22.5°	3290.5	2848.5	1998.4	1424.2	1133.3	982.2	914.2	872.7	850.0	850.0	846.2
25°	3358.5	2848.5	1904.0	1322.2	1054.0	921.8	853.8	823.6	804.7	800.9	800.9
27.5°	3437.8	2871.1	1820.9	1231.6	986.0	861.3	808.4	778.2	755.6	748.0	751.8
30°	3524.7	2890.0	1745.3	1152.2	921.8	816.0	759.3	729.1	706.4	698.9	702.7
32.5°	3611.6	2912.7	1677.3	1080.4	857.6	774.4	717.8	683.8	661.1	657.3	657.3
35°	3706.0	2935.3	1609.3	1020.0	804.7	732.9	680.0	642.2	627.1	619.6	623.3
37.5°	3800.5	2973.1	1545.1	963.3	766.9	695.1	646.0	608.2	596.9	593.1	593.1
40°	3913.8	3029.8	1518.7	925.6	732.9	661.1	619.6	581.8	570.4	570.4	570.4
42.5°	4008.2	3075.1	1496.0	884.0	706.4	630.9	593.1	562.9	555.3	551.6	555.3
45°	4102.7	3116.7	1465.8	846.2	672.4	600.7	570.4	540.2	532.7	532.7	532.7
47.5°	4197.1	3139.3	1424.2	808.4	642.2	574.2	547.8	521.3	513.8	513.8	513.8
50°	4272.7	3158.2	1363.8	766.9	608.2	551.6	525.1	498.7	491.1	491.1	491.1
52.5°	4348.2	3162.0	1299.6	717.8	574.2	525.1	502.4	476.0	468.4	464.7	464.7
55°	4416.2	3158.2	1224.0	661.1	536.4	494.9	476.0	453.3	438.2	423.1	430.7
57.5°	4465.3	3154.5	1137.1	604.4	498.7	464.7	457.1	426.9	396.7	358.9	366.4
60°	4446.5	3112.9	1042.7	532.7	457.1	434.4	434.4	392.9	340.0	321.1	324.9
62.5°	4325.6	2995.8	944.4	457.1	415.6	404.2	400.4	355.1	313.6	294.7	298.4
65°	3962.9	2701.1	800.9	389.1	374.0	370.2	370.2	328.7	290.9	268.2	272.0
67.5°	3411.3	2266.7	653.6	328.7	332.4	340.0	340.0	302.2	264.4	241.8	245.6
70°	2735.1	1771.8	521.3	283.3	287.1	298.4	306.0	272.0	238.0	215.3	215.3
72.5°	2058.9	1344.9	419.3	238.0	256.9	256.9	268.2	241.8	207.8	185.1	188.9
75°	1492.2	963.3	332.4	200.2	222.9	219.1	219.1	204.0	177.6	162.4	162.4
77.5°	706.4	506.2	264.4	143.6	173.8	170.0	173.8	162.4	151.1	136.0	139.8
80°	347.6	249.3	170.0	102.0	120.9	124.7	136.0	128.4	124.7	113.3	113.3
82.5°	166.2	98.2	79.3	71.8	83.1	86.9	94.4	94.4	98.2	90.7	90.7
85°	45.3	26.4	34.0	45.3	52.9	56.7	64.2	68.0	68.0	64.2	68.0
87.5°	11.3	11.3	15.1	22.7	26.4	30.2	34.0	34.0	15.1	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)