

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: P836110

Luminaire Tested: **ARCH3-140-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836110
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: ARCH3-140-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1110mA 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: 14077 lumens
Efficiency: N/A
Efficacy: 98.8 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

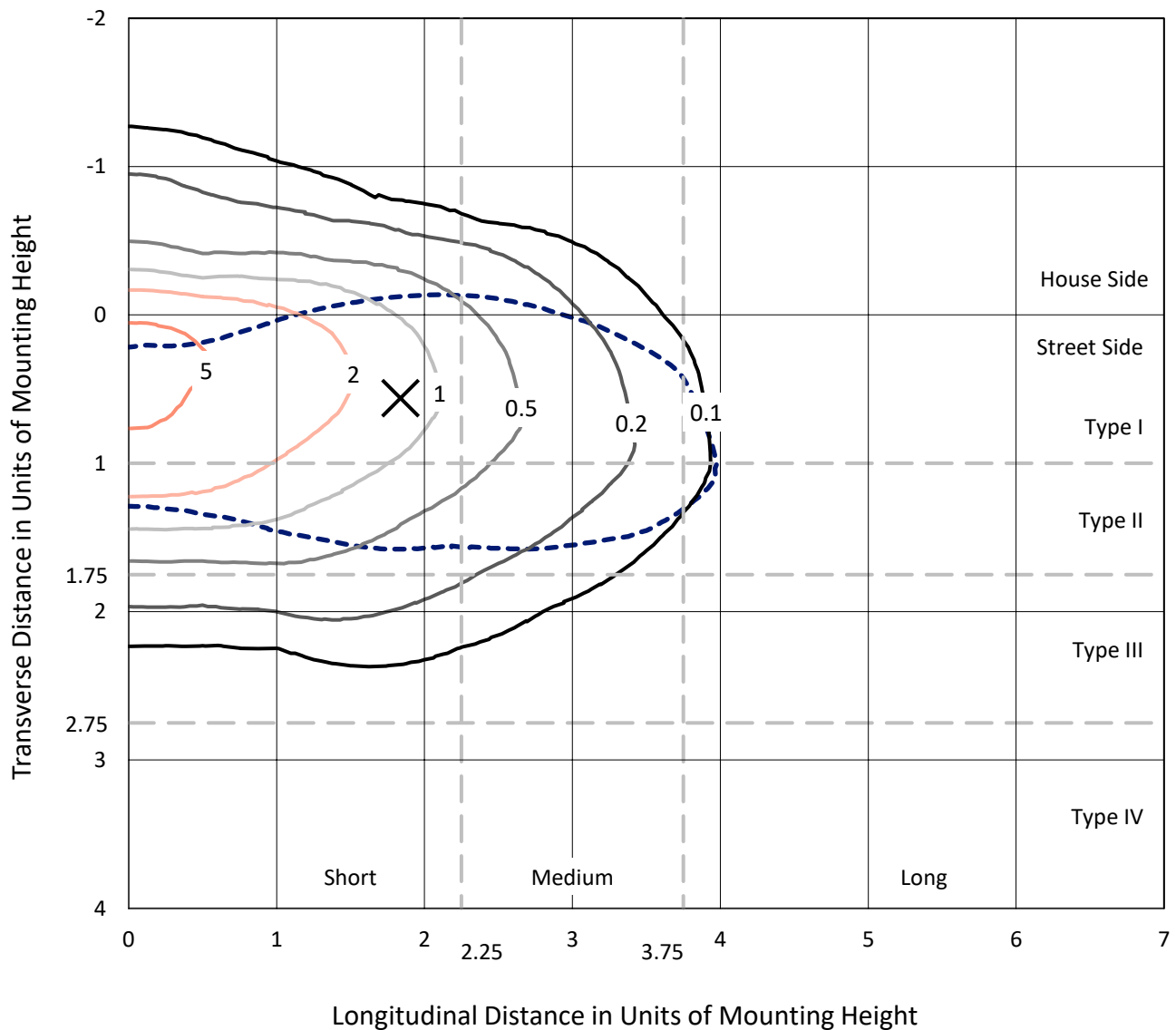
Input Watts (W): 142.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

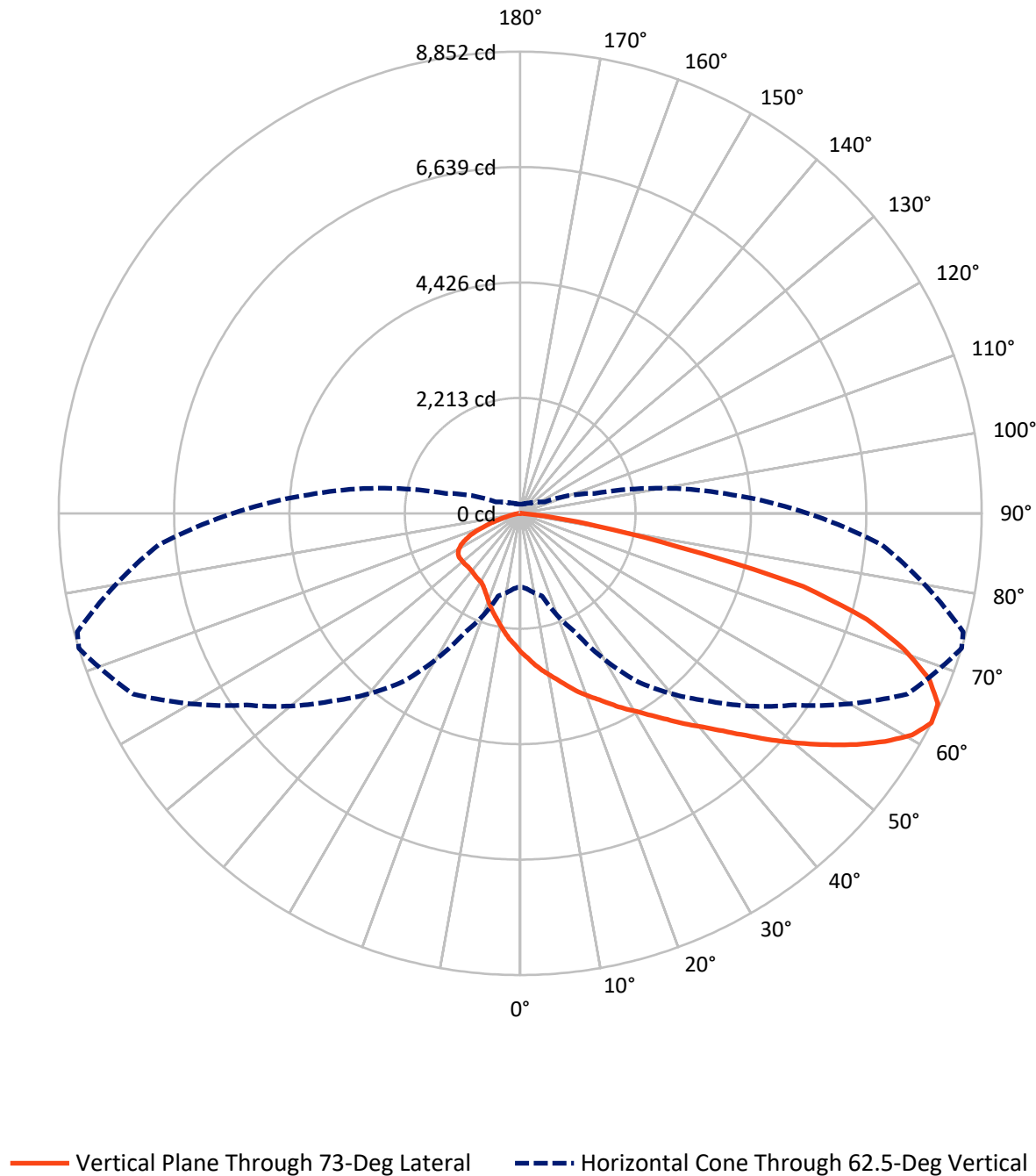
× Max cd
- - - 1/2 Max cd



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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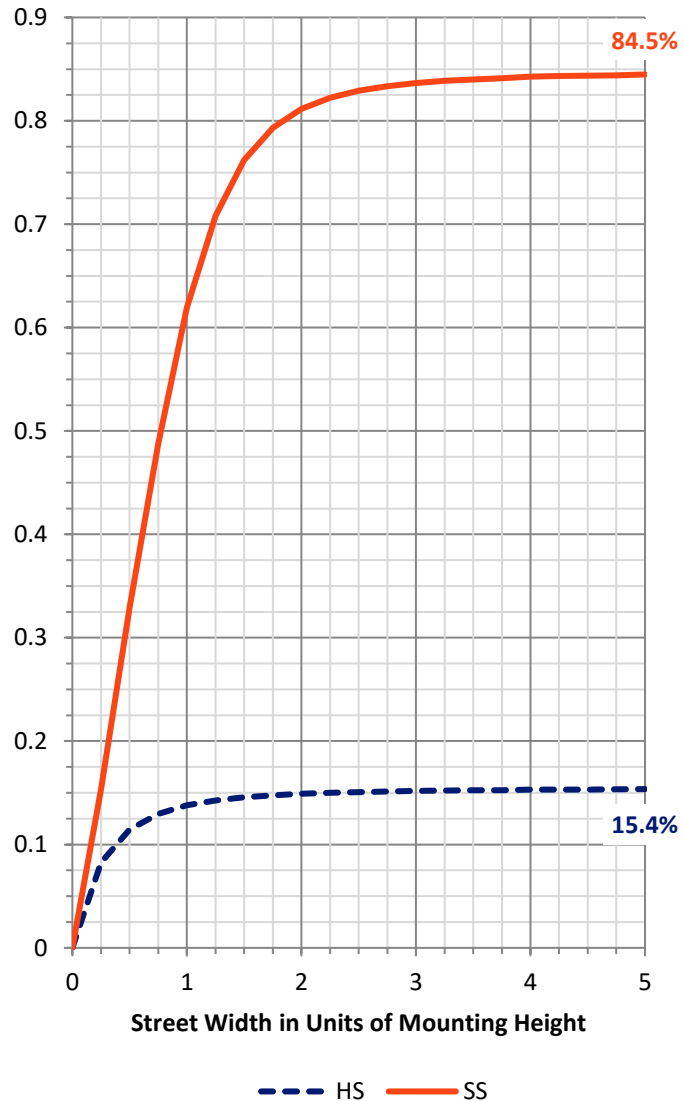
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2182.1	0.0	2182.1
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11894.9	0.0	11894.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	14077.0	0.0	14077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	1.8
10°-20°	777.0	5.5
20°-30°	1293.4	9.2
30°-40°	1951.5	13.9
40°-50°	2727.7	19.4
50°-60°	3012.9	21.4
60°-70°	2624.7	18.6
70°-80°	1325.8	9.4
80°-90°	106.4	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°	14077.0	100.0
0°-180°	14077.0	100.0

Coefficient of Utilization



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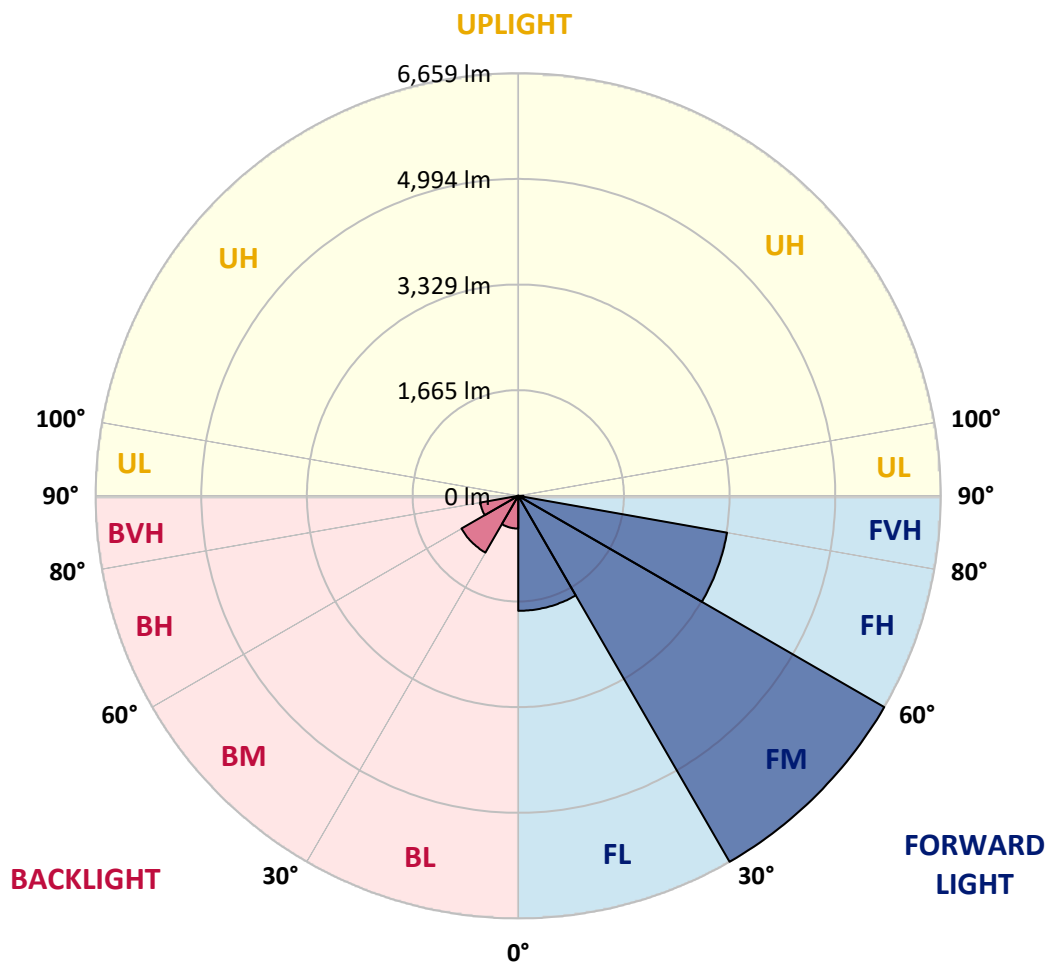
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1812.1	12.9			
FM	(30°-60°)	6658.9	47.3			
FH	(60°-80°)	3341.4	23.7			G2/5000
FVH	(80°-90°)	82.4	0.6			G1/100
BL	(0°-30°)	515.8	3.7	B2/1000		
BM	(30°-60°)	1033.2	7.3	B2/2500		
BH	(60°-80°)	609.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	24.1	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°	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5
2.5°	3033.6	3067.3	3048.9	3061.2	2999.8	2960.0	2914.0	2825.0	2775.9	2769.8	2711.5
5°	3478.4	3515.2	3484.5	3475.3	3367.9	3275.9	3171.6	3015.2	2910.9	2892.5	2763.7
7.5°	3923.1	3956.9	3920.0	3892.4	3748.3	3585.7	3432.3	3202.3	3039.7	3009.1	2806.6
10°	4236.0	4266.7	4239.1	4211.4	4061.1	3895.5	3677.7	3377.1	3156.3	3107.2	2834.2
12.5°	4472.2	4490.6	4478.3	4453.8	4312.7	4134.8	3926.2	3573.4	3288.2	3226.8	2877.2
15°	4665.4	4696.1	4680.7	4662.3	4527.4	4349.5	4150.1	3779.0	3441.5	3364.9	2941.6
17.5°	4794.2	4815.7	4818.8	4818.8	4699.1	4524.3	4331.1	3966.1	3594.9	3496.8	3002.9
20°	4852.5	4877.1	4892.4	4916.9	4818.8	4668.5	4472.2	4125.6	3739.1	3628.7	3061.2
22.5°	4880.1	4901.6	4941.5	4996.7	4916.9	4791.2	4610.2	4272.8	3883.2	3766.7	3128.7
25°	4901.6	4929.2	4987.5	5091.8	5036.6	4929.2	4772.8	4441.5	4055.0	3935.4	3226.8
27.5°	4959.9	4993.6	5048.8	5174.6	5107.1	5055.0	4944.5	4622.5	4236.0	4113.3	3346.5
30°	5162.3	5189.9	5186.9	5266.6	5183.8	5168.5	5091.8	4797.3	4410.8	4288.1	3487.6
32.5°	5530.4	5558.0	5490.5	5459.8	5278.9	5281.9	5251.3	4984.4	4619.4	4493.6	3650.1
35°	5926.1	5956.8	5867.8	5815.7	5512.0	5423.0	5438.4	5217.5	4852.5	4726.8	3852.6
37.5°	6278.8	6315.6	6238.9	6162.3	5855.5	5650.0	5647.0	5478.3	5119.4	4990.5	4076.5
40°	6472.1	6515.0	6561.0	6518.1	6196.0	5969.0	5870.9	5745.1	5383.2	5251.3	4318.8
42.5°	6564.1	6683.7	6766.5	6738.9	6475.1	6245.1	6128.5	6024.2	5705.2	5576.4	4607.1
45°	6306.4	6309.5	6484.3	6634.6	6585.6	6432.2	6410.7	6337.1	6073.3	5950.6	4932.3
47.5°	5984.4	5959.8	6082.5	6349.4	6487.4	6527.3	6653.0	6683.7	6493.5	6370.8	5263.5
50°	5211.4	5226.7	5625.5	6008.9	6278.8	6536.5	6824.8	7039.5	6926.0	6809.5	5613.2
52.5°	4239.1	4275.9	4732.9	5576.4	6002.8	6444.5	6926.0	7395.3	7367.7	7257.3	5962.9
55°	3398.6	3456.9	3941.5	4855.6	5650.0	6238.9	6969.0	7720.5	7824.8	7723.5	6306.4
57.5°	2598.0	2659.4	3067.3	4005.9	5199.1	5904.6	6938.3	8005.7	8251.1	8186.7	6622.4
60°	1957.0	2018.3	2279.0	3248.3	4634.7	5530.4	6784.9	8192.8	8634.5	8567.1	6852.4
62.5°	1401.8	1450.8	1644.1	2527.5	3947.7	5085.6	6407.7	8195.9	8852.3	8797.1	6962.8
65°	1009.2	1009.2	1165.6	1803.6	3303.5	4551.9	5837.1	7818.6	8806.3	8791.0	6886.2
67.5°	727.0	733.1	858.9	1260.7	2634.8	3904.7	5097.9	7146.9	8450.5	8527.2	6610.1
70°	515.3	530.6	588.9	880.3	1990.7	3082.7	4306.5	6266.6	7809.4	7944.4	6076.4
72.5°	398.8	408.0	447.8	613.5	1453.9	2291.3	3432.3	5285.0	6953.6	7107.0	5349.4
75°	306.7	315.9	346.6	450.9	1042.9	1607.3	2438.5	4101.0	5607.1	5880.1	4297.3
77.5°	223.9	236.2	257.7	328.2	607.3	1021.4	1478.5	2306.6	3094.9	3223.8	2251.4
80°	104.3	119.6	150.3	211.6	328.2	481.6	524.5	889.5	1487.7	1555.1	1220.8
82.5°	58.3	73.6	85.9	128.8	165.6	171.8	177.9	223.9	561.3	619.6	512.2
85°	27.6	36.8	39.9	55.2	55.2	49.1	58.3	42.9	92.0	110.4	107.4
87.5°	0.0	3.1	6.1	15.3	12.3	9.2	9.2	9.2	9.2	12.3	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°	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5	2665.5
2.5°	2683.9	2644.0	2552.0	2472.3	2420.1	2374.1	2312.8	2285.2	2236.1	2245.3	2217.7
5°	2699.3	2625.6	2463.1	2312.8	2202.3	2104.2	1996.8	1935.5	1868.0	1861.9	1840.4
7.5°	2708.5	2595.0	2361.8	2150.2	1981.5	1831.2	1687.0	1607.3	1524.5	1506.1	1487.7
10°	2699.3	2549.0	2257.6	1981.5	1757.6	1570.5	1407.9	1306.7	1220.8	1199.3	1180.9
12.5°	2708.5	2524.4	2159.4	1825.1	1558.2	1346.6	1162.5	1058.2	978.5	957.0	944.7
15°	2729.9	2509.1	2076.6	1684.0	1380.3	1144.1	963.1	874.2	809.8	788.3	782.2
17.5°	2748.3	2493.7	1987.6	1545.9	1202.4	966.2	809.8	736.2	680.9	659.5	653.3
20°	2772.9	2472.3	1898.7	1414.0	1046.0	825.1	687.1	622.7	579.7	564.4	561.3
22.5°	2794.3	2456.9	1815.9	1282.1	901.8	711.6	595.1	542.9	512.2	496.9	496.9
25°	2849.5	2463.1	1745.3	1159.5	794.4	622.7	524.5	484.6	460.1	450.9	450.9
27.5°	2914.0	2487.6	1690.1	1055.2	702.4	555.2	475.4	441.7	429.4	417.2	420.2
30°	3006.0	2536.7	1653.3	969.3	634.9	503.0	435.6	411.0	398.8	395.7	395.7
32.5°	3122.5	2616.4	1650.2	914.1	585.9	463.2	408.0	386.5	380.3	377.3	377.3
35°	3260.6	2687.0	1631.8	889.5	555.2	435.6	386.5	371.1	368.1	368.1	368.1
37.5°	3426.2	2803.5	1619.6	855.8	539.9	420.2	371.1	358.9	358.9	358.9	358.9
40°	3598.0	2898.6	1601.1	825.1	533.7	411.0	361.9	346.6	346.6	346.6	346.6
42.5°	3803.5	3036.7	1595.0	809.8	524.5	404.9	349.7	331.3	334.3	334.3	337.4
45°	4051.9	3193.1	1591.9	794.4	521.4	398.8	337.4	315.9	319.0	315.9	315.9
47.5°	4303.5	3374.1	1601.1	785.2	518.4	392.6	328.2	300.6	300.6	297.5	297.5
50°	4567.3	3539.7	1607.3	776.0	512.2	380.3	312.9	288.3	282.2	276.1	279.1
52.5°	4815.7	3693.1	1610.3	760.7	493.8	361.9	300.6	273.0	263.8	254.6	257.7
55°	5064.2	3840.3	1616.5	742.3	469.3	343.5	285.3	257.7	245.4	233.1	233.1
57.5°	5288.1	3969.1	1601.1	696.3	441.7	325.1	269.9	239.3	220.8	208.6	208.6
60°	5441.4	4061.1	1555.1	628.8	404.9	303.7	254.6	220.8	199.4	190.2	190.2
62.5°	5515.1	4076.5	1472.3	518.4	358.9	282.2	236.2	202.4	184.0	177.9	177.9
65°	5444.5	4009.0	1343.5	389.6	309.8	257.7	217.8	187.1	168.7	153.4	153.4
67.5°	5199.1	3818.8	1165.6	294.5	263.8	233.1	199.4	171.8	150.3	138.0	138.0
70°	4705.3	3423.1	901.8	236.2	223.9	202.4	181.0	153.4	135.0	119.6	119.6
72.5°	4058.1	2901.7	634.9	190.2	190.2	171.8	153.4	135.0	116.6	104.3	104.3
75°	3113.3	2147.1	426.4	153.4	156.4	144.2	125.8	110.4	98.2	89.0	89.0
77.5°	1699.3	1061.3	260.7	113.5	116.6	110.4	98.2	89.0	82.8	73.6	73.6
80°	825.1	466.2	150.3	79.8	82.8	79.8	73.6	64.4	64.4	58.3	58.3
82.5°	346.6	174.8	79.8	55.2	55.2	49.1	46.0	46.0	46.0	42.9	42.9
85°	85.9	33.7	33.7	30.7	30.7	30.7	27.6	27.6	27.6	21.5	24.5
87.5°	12.3	12.3	12.3	12.3	12.3	12.3	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)