

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: P841593

Luminaire Tested: **ARCH4-200-727-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29467 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

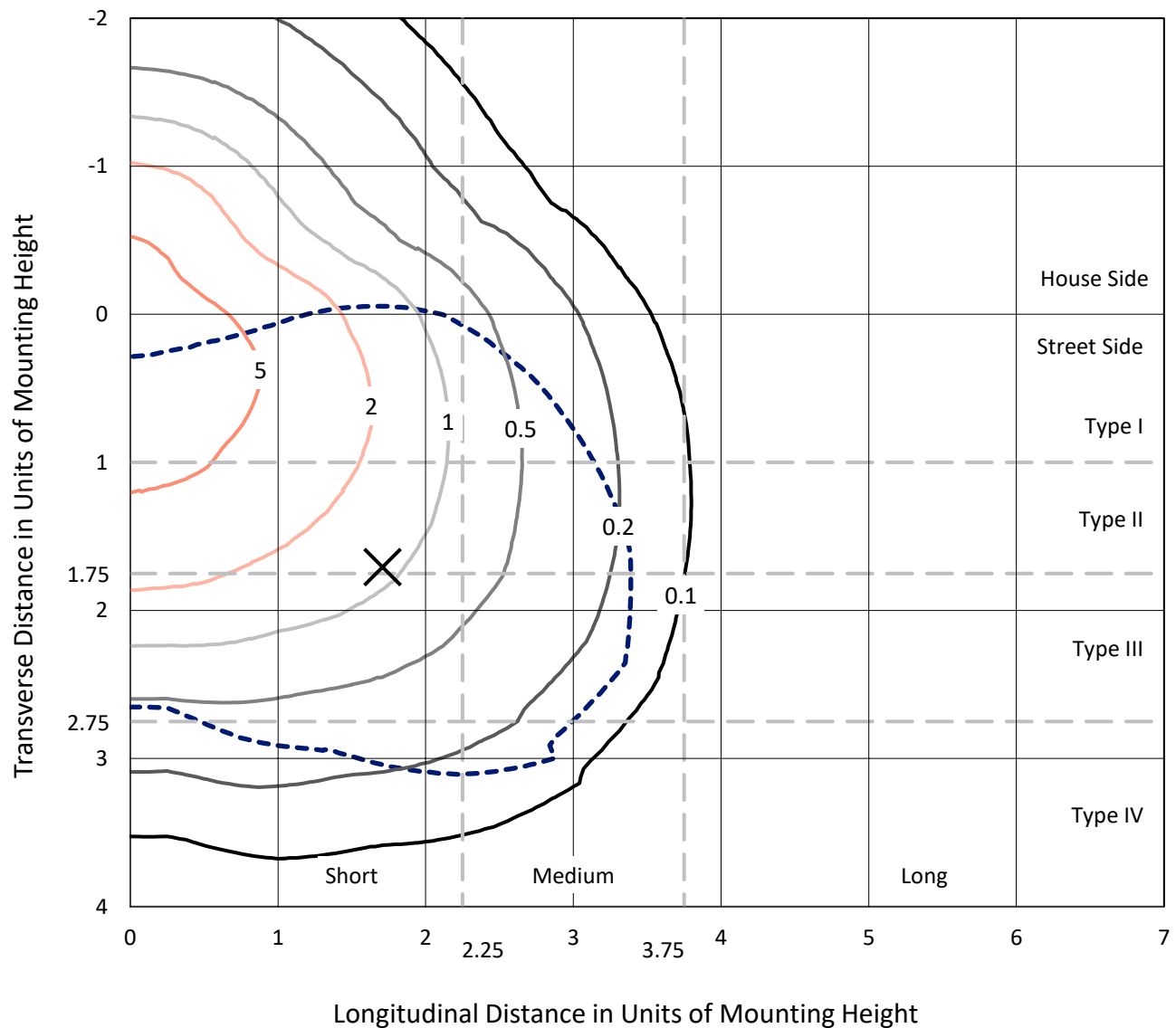
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

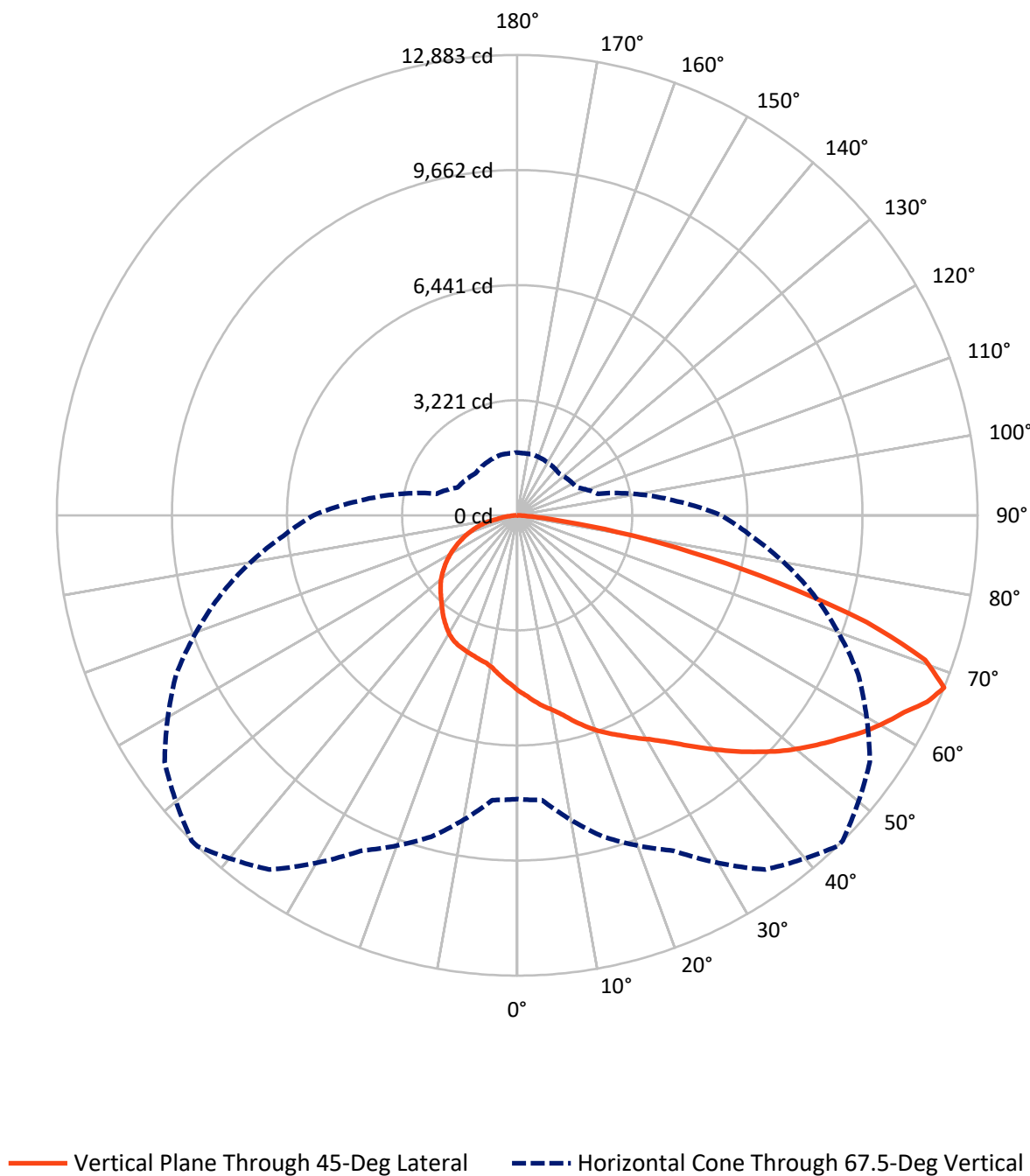
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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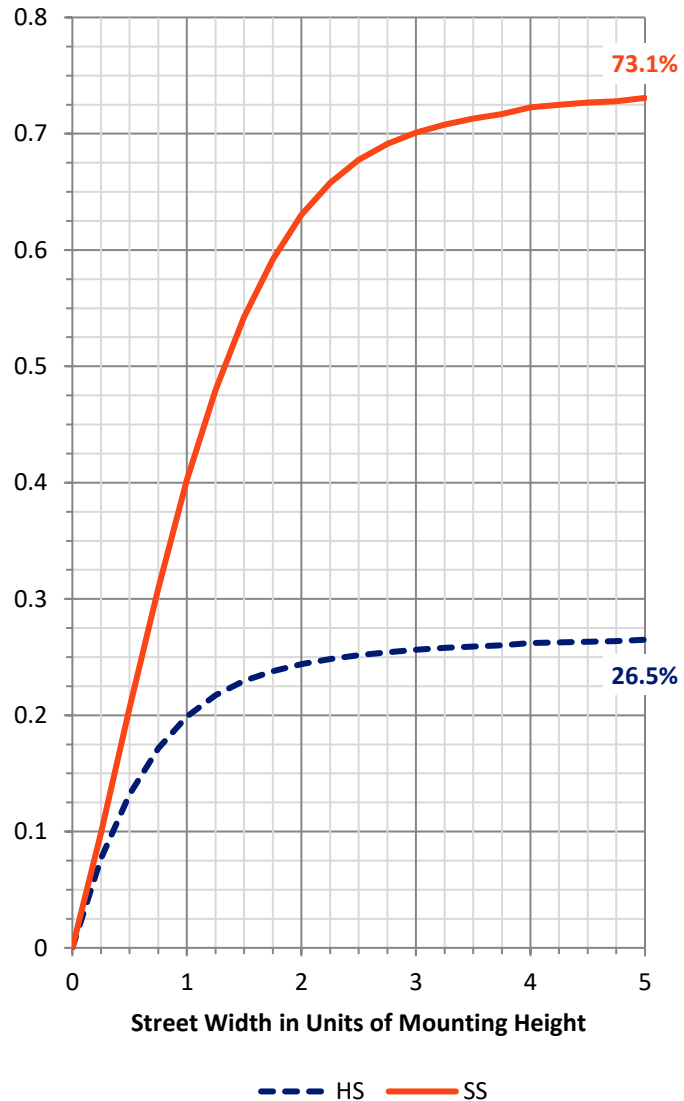
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7872.1	0.0	7872.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	21594.9	0.0	21594.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	29467.0	0.0	29467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.5	1.6
10°-20°	1453.6	4.9
20°-30°	2509.0	8.5
30°-40°	3699.9	12.6
40°-50°	5012.7	17.0
50°-60°	6126.7	20.8
60°-70°	6318.8	21.4
70°-80°	3461.0	11.7
80°-90°	414.8	1.4
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°	29467.0	100.0
0°-180°	29467.0	100.0

Coefficient of Utilization



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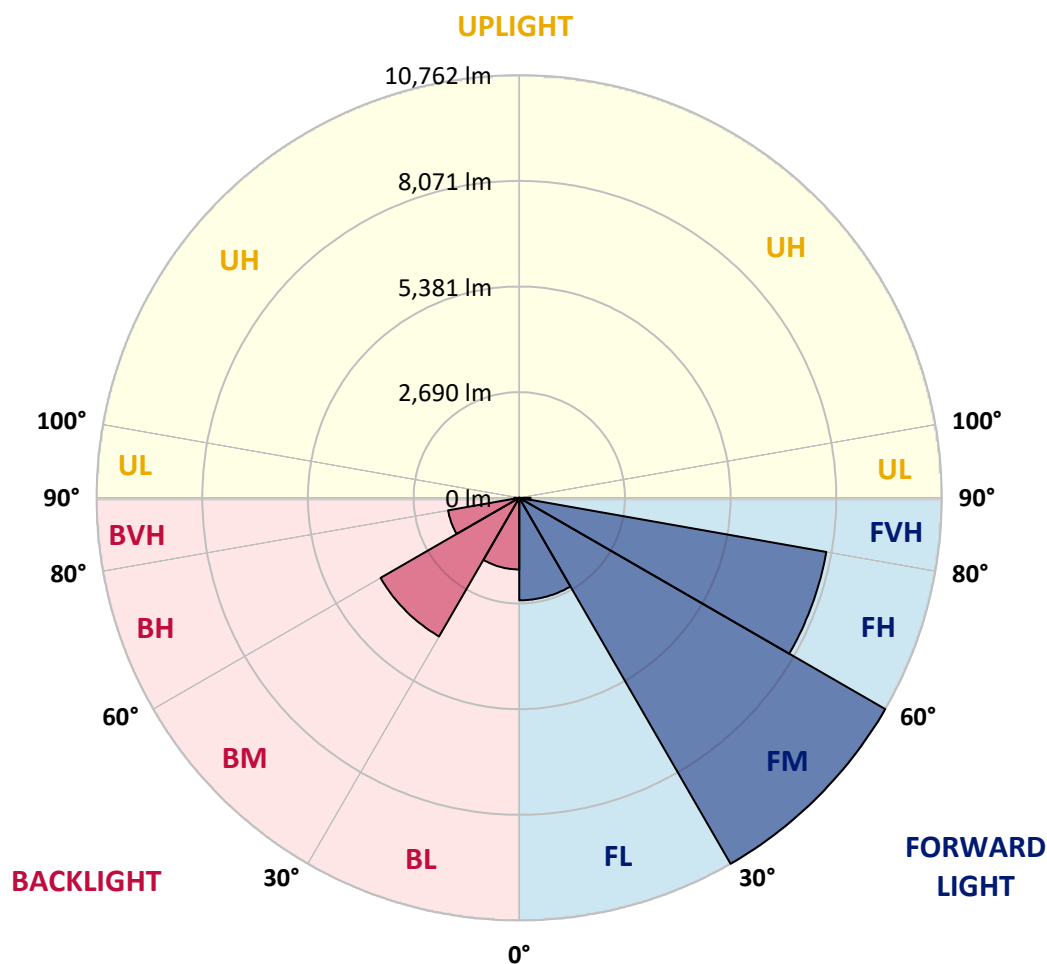
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2608.6	8.9			
FM	(30°-60°)	10761.6	36.5			
FH	(60°-80°)	7938.8	26.9			G4/12000
FVH	(80°-90°)	285.8	1.0			G3/500
BL	(0°-30°)	1824.5	6.2	B3/2500		
BM	(30°-60°)	4077.6	13.8	B3/5000		
BH	(60°-80°)	1841.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	129.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5
2.5°	5129.8	5125.3	5134.3	5102.9	5062.5	5058.0	5058.0	5031.1	4999.7	4937.0	4887.6
5°	5371.9	5362.9	5367.4	5322.6	5268.8	5241.9	5237.4	5179.1	5107.4	5008.7	4919.0
7.5°	5596.1	5587.1	5582.7	5533.3	5452.6	5407.8	5403.3	5318.1	5232.9	5080.4	4950.4
10°	5806.9	5797.9	5788.9	5721.7	5623.0	5555.8	5546.8	5439.2	5331.6	5143.2	4977.3
12.5°	6075.9	6058.0	6049.0	5968.3	5824.8	5753.1	5739.6	5596.1	5461.6	5232.9	5031.1
15°	6358.4	6345.0	6331.5	6255.3	6093.8	5999.7	5977.3	5797.9	5614.1	5349.5	5111.8
17.5°	6569.2	6555.7	6555.7	6488.4	6340.5	6232.9	6214.9	5999.7	5771.0	5457.1	5174.6
20°	6699.2	6685.7	6699.2	6658.8	6546.7	6457.1	6439.1	6201.5	5927.9	5555.8	5228.4
22.5°	6793.4	6779.9	6802.3	6784.4	6703.7	6649.9	6636.4	6403.2	6089.4	5658.9	5282.2
25°	6959.3	6959.3	6959.3	6927.9	6851.7	6833.7	6833.7	6631.9	6295.6	5793.4	5362.9
27.5°	7291.1	7273.2	7250.7	7161.1	7031.0	7026.5	7053.4	6865.1	6533.3	5968.3	5461.6
30°	7779.9	7770.9	7685.7	7497.4	7277.6	7255.2	7273.2	7116.2	6788.9	6152.1	5573.7
32.5°	8412.1	8380.7	8205.8	7923.3	7609.5	7506.3	7542.2	7376.3	7057.9	6340.5	5681.3
35°	8860.5	8869.5	8743.9	8488.3	8116.2	7842.6	7869.5	7667.8	7349.4	6551.2	5815.8
37.5°	9376.2	9407.6	9219.2	9026.4	8681.2	8214.8	8241.7	7968.2	7640.8	6815.8	5959.3
40°	10089.1	10026.4	9708.0	9479.3	9098.2	8604.9	8627.3	8304.5	7977.2	7066.9	6125.2
42.5°	10685.5	10573.4	10187.8	9896.3	9439.0	9017.5	9039.9	8667.7	8317.9	7344.9	6309.1
45°	11542.0	11232.6	10676.6	10533.1	9788.7	9421.0	9443.4	9053.3	8676.7	7640.8	6506.4
47.5°	12039.7	11546.5	11192.2	11116.0	10174.3	9838.0	9864.9	9461.4	9062.3	7977.2	6712.6
50°	12008.3	11690.0	11586.8	11398.5	10515.1	10228.2	10255.1	9882.9	9452.4	8309.0	6909.9
52.5°	11802.1	11860.4	11806.5	11492.7	10855.9	10604.8	10636.2	10299.9	9851.5	8618.4	7093.8
55°	12120.4	12160.8	12057.7	11645.1	11232.6	10981.5	11017.4	10739.3	10246.1	8891.9	7250.7
57.5°	12501.6	12358.1	12255.0	11914.2	11622.7	11389.5	11429.9	11187.7	10586.9	9111.6	7371.8
60°	12483.6	12183.2	12286.3	11932.1	11887.3	11766.2	11802.1	11555.4	10847.0	9273.0	7421.1
62.5°	11564.4	11403.0	11923.1	11802.1	12102.5	12102.5	12147.3	11779.6	11003.9	9340.3	7394.2
65°	9968.1	9977.0	10891.8	11394.0	12358.1	12564.4	12600.2	11918.6	10914.2	9143.0	7143.1
67.5°	7941.3	7999.6	9313.4	10358.2	12102.5	12878.2	12882.7	12044.2	10528.6	8587.0	6560.2
70°	5811.3	5856.2	7407.7	8676.7	10896.3	12183.2	12111.5	11690.0	9690.1	7618.4	5649.9
72.5°	3928.0	3968.4	5564.7	6663.3	8941.2	10376.1	10219.2	10331.3	8259.7	6259.8	4542.4
75°	2641.1	2690.4	3959.4	4766.6	6578.1	7878.5	7528.7	7824.7	6389.8	4739.7	3313.7
77.5°	1663.6	1695.0	2515.6	3125.4	4493.0	5362.9	5013.2	5017.7	3681.4	2551.4	1780.2
80°	1058.2	1067.2	1524.6	1802.6	2600.8	3224.0	2851.9	2318.3	1659.1	1354.2	1062.7
82.5°	614.3	600.9	910.3	1017.9	1237.6	1224.2	1013.4	959.6	726.4	677.1	542.6
85°	246.6	228.7	399.1	372.2	376.7	399.1	295.9	295.9	237.7	183.8	134.5
87.5°	49.3	49.3	53.8	49.3	49.3	53.8	40.4	40.4	35.9	35.9	35.9
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°	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5	4914.5
2.5°	4878.7	4869.7	4847.3	4789.0	4757.6	4739.7	4712.8	4703.8	4699.3	4703.8	4717.2
5°	4892.1	4860.7	4798.0	4703.8	4641.0	4600.7	4555.8	4537.9	4524.4	4524.4	4537.9
7.5°	4901.1	4851.8	4744.1	4605.1	4515.5	4452.7	4398.9	4376.4	4372.0	4385.4	4389.9
10°	4905.6	4833.8	4681.4	4506.5	4389.9	4309.2	4255.4	4241.9	4255.4	4282.3	4286.8
12.5°	4937.0	4838.3	4645.5	4439.2	4300.2	4219.5	4179.1	4179.1	4215.0	4264.3	4268.8
15°	4990.8	4869.7	4627.6	4385.4	4241.9	4170.2	4156.7	4179.1	4233.0	4309.2	4318.2
17.5°	5031.1	4887.6	4587.2	4313.7	4165.7	4120.9	4143.3	4197.1	4273.3	4376.4	4385.4
20°	5058.0	4887.6	4528.9	4228.5	4089.5	4080.5	4143.3	4228.5	4309.2	4430.3	4443.7
22.5°	5084.9	4878.7	4461.6	4125.3	4004.3	4031.2	4147.8	4255.4	4336.1	4466.1	4488.6
25°	5134.3	4892.1	4394.4	4022.2	3914.6	3990.8	4143.3	4273.3	4358.5	4493.0	4528.9
27.5°	5201.5	4923.5	4345.1	3928.0	3824.9	3928.0	4111.9	4268.8	4358.5	4488.6	4528.9
30°	5273.3	4959.4	4286.8	3824.9	3721.8	3838.4	4044.6	4219.5	4322.6	4443.7	4493.0
32.5°	5349.5	4999.7	4237.4	3712.8	3596.2	3717.3	3946.0	4143.3	4255.4	4367.5	4421.3
35°	5452.6	5071.5	4210.5	3623.1	3484.1	3591.7	3820.4	4044.6	4165.7	4268.8	4331.6
37.5°	5578.2	5161.2	4197.1	3533.4	3363.0	3452.7	3685.9	3923.6	4053.6	4138.8	4197.1
40°	5721.7	5273.3	4192.6	3448.2	3242.0	3309.2	3546.9	3784.6	3910.1	3977.4	4026.7
42.5°	5883.1	5398.8	4183.6	3363.0	3120.9	3174.7	3412.4	3645.5	3753.2	3811.5	3856.3
45°	6053.5	5524.4	4165.7	3259.9	2990.9	3053.6	3273.4	3479.6	3591.7	3641.1	3690.4
47.5°	6223.9	5649.9	4129.8	3143.3	2874.3	2932.6	3125.4	3304.8	3394.4	3439.3	3488.6
50°	6389.8	5762.0	4044.6	3008.8	2753.2	2807.0	2955.0	3076.1	3143.3	3179.2	3228.5
52.5°	6537.8	5838.3	3923.6	2851.9	2632.1	2659.1	2757.7	2860.8	2914.6	2919.1	2964.0
55°	6663.3	5878.6	3748.7	2690.4	2502.1	2506.6	2560.4	2641.1	2663.5	2645.6	2677.0
57.5°	6735.1	5856.2	3555.9	2524.5	2367.6	2349.7	2390.0	2430.4	2434.8	2390.0	2421.4
60°	6753.0	5753.1	3304.8	2358.6	2233.1	2183.7	2197.2	2188.2	2179.3	2161.3	2188.2
62.5°	6663.3	5533.3	3026.7	2197.2	2089.6	2013.3	2008.9	2004.4	2017.8	2022.3	2026.8
65°	6336.0	5120.8	2694.9	2031.3	1937.1	1834.0	1829.5	1883.3	1901.2	1874.3	1883.3
67.5°	5703.7	4488.6	2331.7	1838.5	1744.3	1654.6	1690.5	1721.9	1753.3	1744.3	1753.3
70°	4806.9	3685.9	1999.9	1623.2	1533.6	1484.2	1524.6	1551.5	1556.0	1547.0	1556.0
72.5°	3780.1	2878.8	1690.5	1403.5	1322.8	1300.4	1349.7	1372.1	1412.5	1430.4	1434.9
75°	2730.8	2125.4	1385.6	1165.9	1098.6	1098.6	1143.4	1183.8	1219.7	1197.2	1183.8
77.5°	1524.6	1269.0	995.5	802.6	816.1	878.9	896.8	941.7	977.5	973.0	964.1
80°	923.7	793.7	672.6	520.2	515.7	565.0	681.6	757.8	775.7	735.4	730.9
82.5°	479.8	417.0	358.7	291.5	322.9	376.7	394.6	475.3	524.6	506.7	529.1
85°	121.1	116.6	130.0	134.5	165.9	183.8	201.8	237.7	156.9	76.2	76.2
87.5°	35.9	35.9	44.8	44.8	58.3	71.7	67.3	67.3	35.9	4.5	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)