

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: P841908

Luminaire Tested: **ARCH4-240-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841908
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: ARCH4-240-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 940mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36650 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 240.2
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

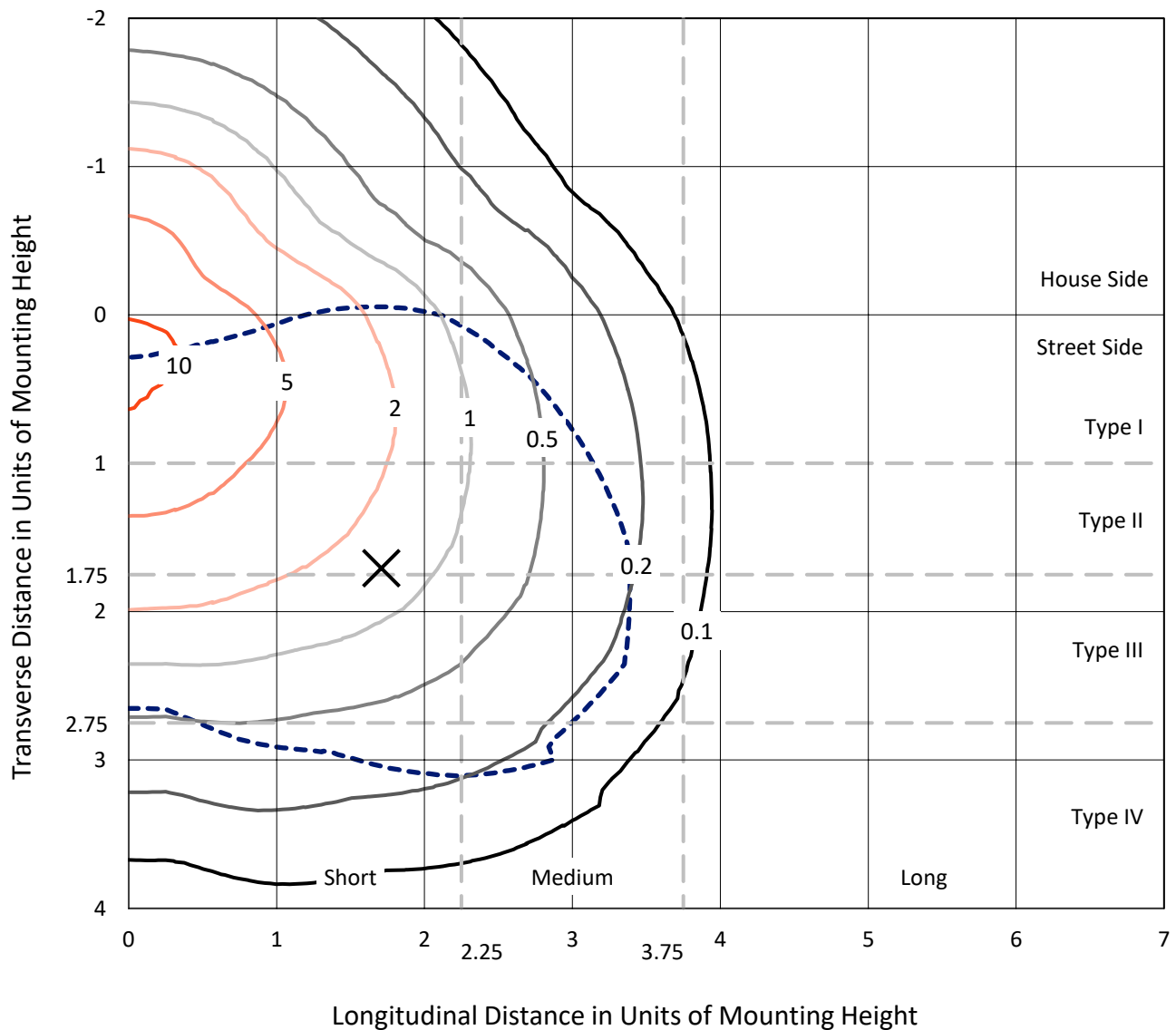


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Iso-Footcandle Lines of Horizontal Illumination

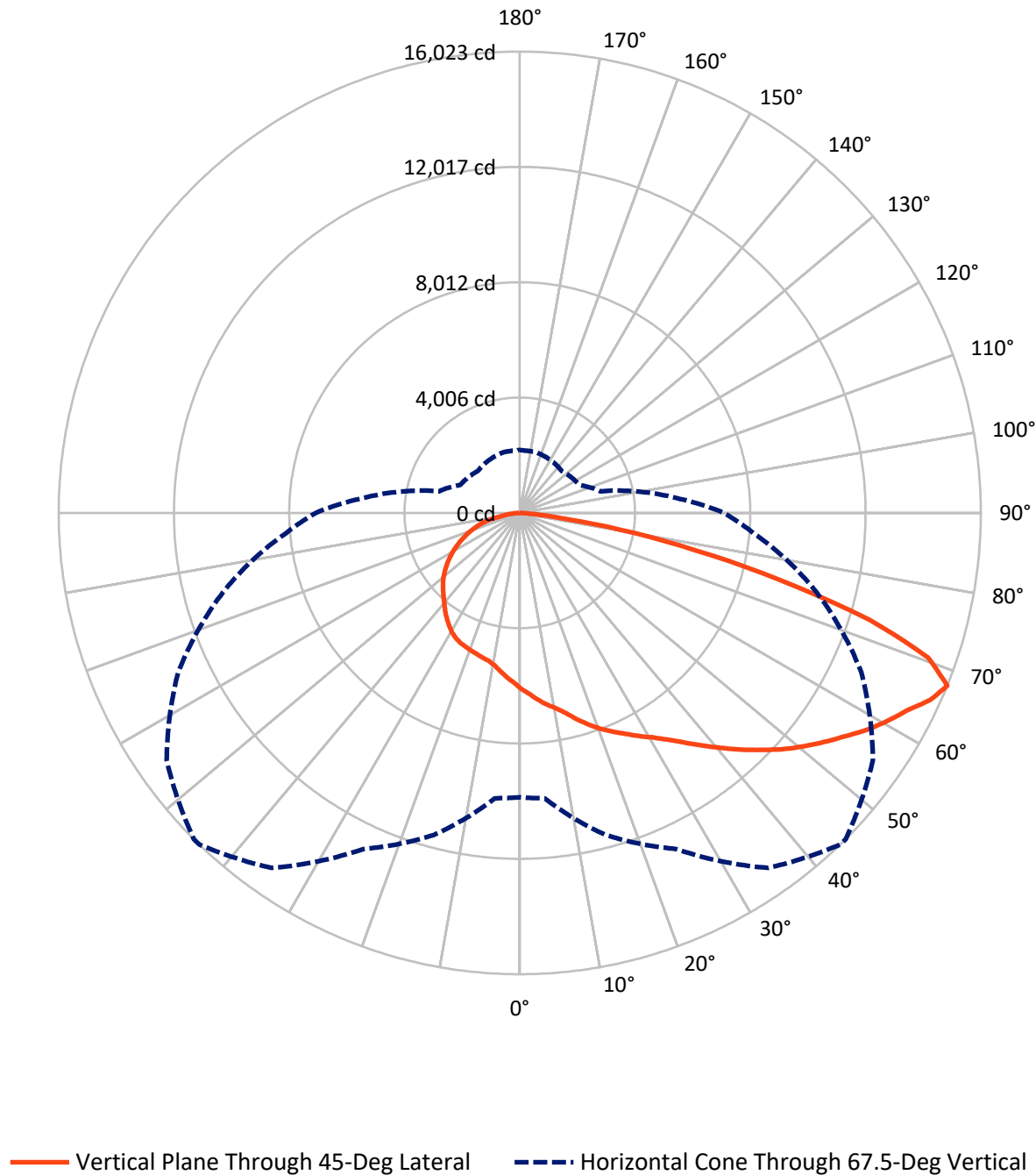
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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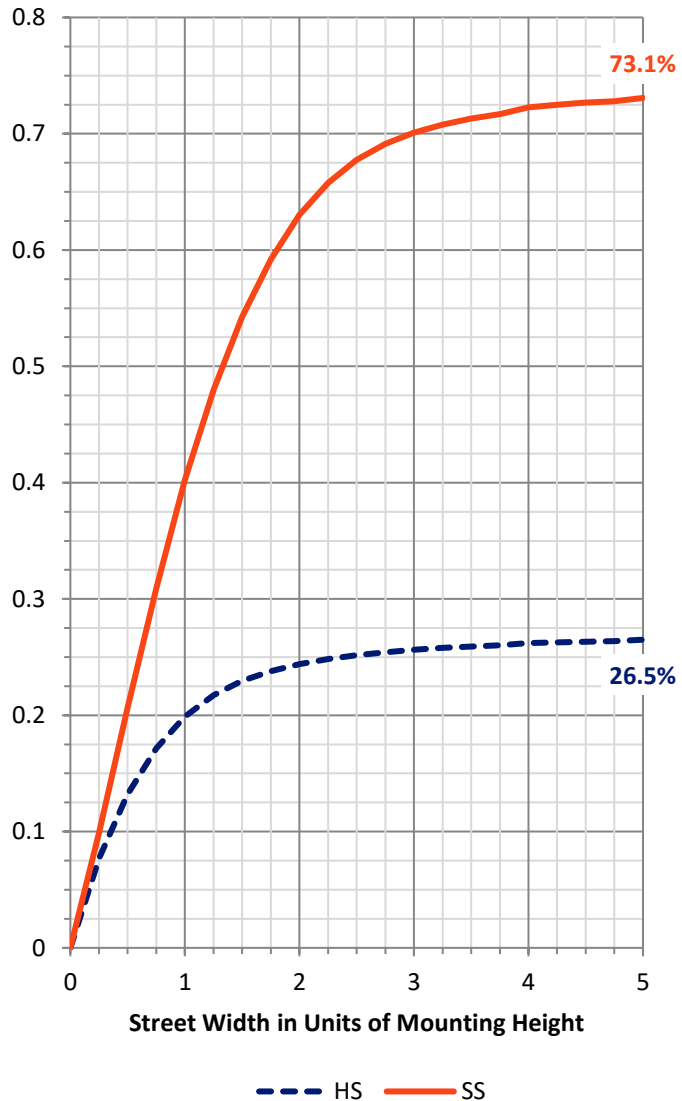
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9791.1	0.0	9791.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	26858.9	0.0	26858.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	36650.0	0.0	36650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.3	1.6
10°-20°	1807.9	4.9
20°-30°	3120.6	8.5
30°-40°	4601.8	12.6
40°-50°	6234.6	17.0
50°-60°	7620.1	20.8
60°-70°	7859.1	21.4
70°-80°	4304.7	11.7
80°-90°	515.9	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°	36650.0	100.0
0°-180°	36650.0	100.0

Coefficient of Utilization



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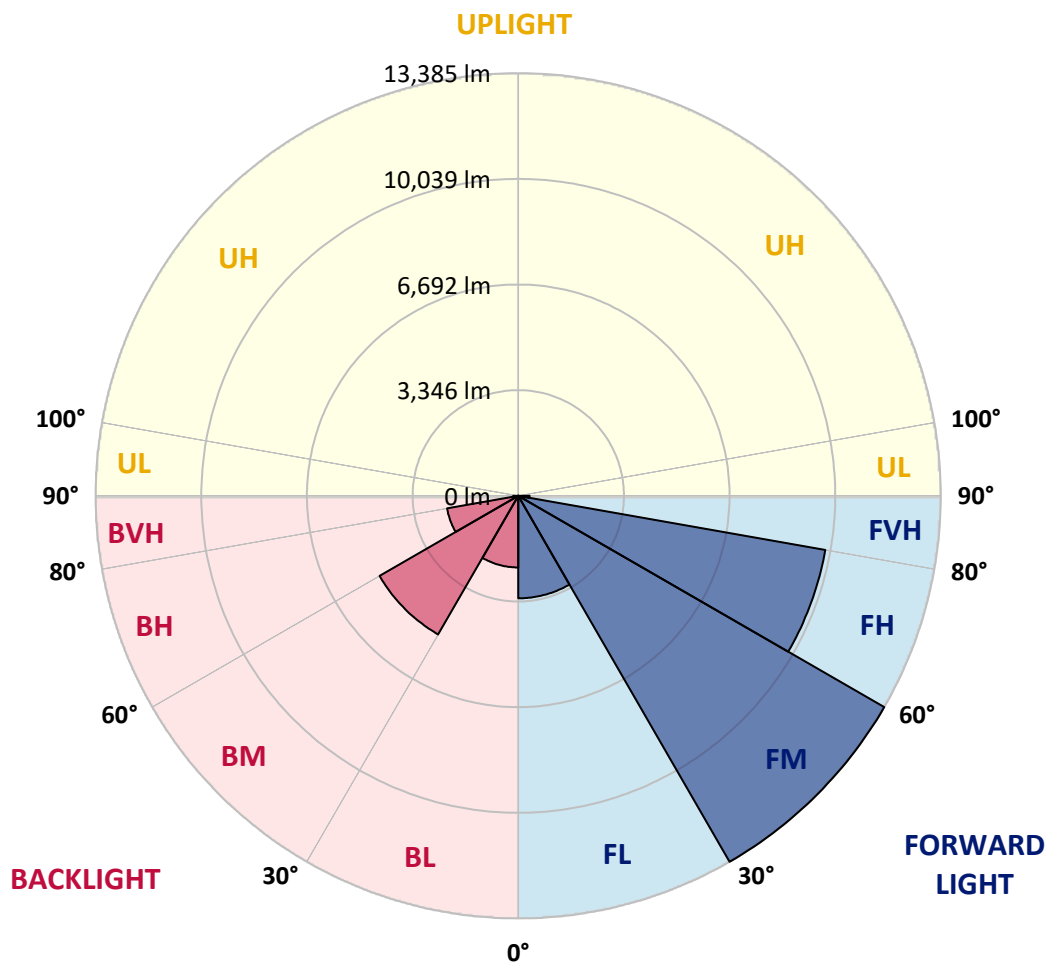
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3244.5	8.9			
FM	(30°-60°)	13384.9	36.5			
FH	(60°-80°)	9874.1	26.9			G4/12000
FVH	(80°-90°)	355.4	1.0			G3/500
BL	(0°-30°)	2269.2	6.2	B3/2500		
BM	(30°-60°)	5071.6	13.8	B4/8500		
BH	(60°-80°)	2289.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	160.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5
2.5°	6380.2	6374.6	6385.8	6346.8	6296.6	6291.0	6291.0	6257.5	6218.5	6140.4	6079.1
5°	6681.4	6670.2	6675.8	6620.0	6553.1	6519.7	6514.1	6441.6	6352.3	6229.6	6118.1
7.5°	6960.2	6949.1	6943.5	6882.2	6781.8	6726.0	6720.4	6614.5	6508.5	6318.9	6157.1
10°	7222.4	7211.2	7200.1	7116.4	6993.7	6910.1	6898.9	6765.0	6631.2	6397.0	6190.6
12.5°	7557.0	7534.7	7523.5	7423.1	7244.7	7155.4	7138.7	6960.2	6792.9	6508.5	6257.5
15°	7908.4	7891.6	7874.9	7780.1	7579.3	7462.2	7434.3	7211.2	6982.6	6653.5	6357.9
17.5°	8170.5	8153.8	8153.8	8070.1	7886.0	7752.2	7729.9	7462.2	7177.8	6787.4	6436.0
20°	8332.2	8315.5	8332.2	8282.0	8142.6	8031.1	8008.7	7713.2	7373.0	6910.1	6502.9
22.5°	8449.3	8432.6	8460.5	8438.2	8337.8	8270.9	8254.1	7964.1	7573.7	7038.3	6569.8
25°	8655.7	8655.7	8655.7	8616.7	8521.8	8499.5	8499.5	8248.6	7830.3	7205.6	6670.2
27.5°	9068.4	9046.1	9018.2	8906.7	8744.9	8739.3	8772.8	8538.6	8125.9	7423.1	6792.9
30°	9676.3	9665.2	9559.2	9324.9	9051.7	9023.8	9046.1	8850.9	8443.8	7651.8	6932.4
32.5°	10462.7	10423.6	10206.1	9854.8	9464.4	9336.1	9380.7	9174.4	8778.4	7886.0	7066.2
35°	11020.4	11031.5	10875.4	10557.5	10094.6	9754.4	9787.8	9536.9	9140.9	8148.2	7233.5
37.5°	11661.8	11700.8	11466.6	11226.7	10797.3	10217.3	10250.7	9910.5	9503.4	8477.2	7412.0
40°	12548.5	12470.4	12074.5	11790.0	11316.0	10702.5	10730.4	10328.8	9921.7	8789.5	7618.3
42.5°	13290.3	13150.9	12671.2	12308.7	11739.8	11215.6	11243.5	10780.6	10345.6	9135.3	7847.0
45°	14355.5	13970.7	13279.1	13100.7	12174.9	11717.5	11745.4	11260.2	10791.7	9503.4	8092.4
47.5°	14974.6	14361.1	13920.5	13825.7	12654.5	12236.2	12269.7	11767.7	11271.4	9921.7	8349.0
50°	14935.5	14539.6	14411.3	14177.0	13078.3	12721.4	12754.9	12292.0	11756.6	10334.4	8594.3
52.5°	14679.0	14751.5	14684.6	14294.2	13502.2	13189.9	13228.9	12810.6	12252.9	10719.2	8823.0
55°	15075.0	15125.2	14996.9	14483.8	13970.7	13658.4	13703.0	13357.2	12743.7	11059.4	9018.2
57.5°	15549.0	15370.5	15242.3	14818.4	14455.9	14165.9	14216.1	13914.9	13167.6	11332.7	9168.8
60°	15526.7	15153.0	15281.3	14840.7	14784.9	14634.4	14679.0	14372.2	13491.1	11533.5	9230.1
62.5°	14383.4	14182.6	14829.6	14679.0	15052.7	15052.7	15108.4	14651.1	13686.3	11617.1	9196.7
65°	12397.9	12409.1	13546.8	14171.5	15370.5	15627.1	15671.7	14824.0	13574.7	11371.8	8884.4
67.5°	9877.1	9949.6	11583.7	12883.2	15052.7	16017.5	16023.1	14980.1	13095.1	10680.2	8159.3
70°	7227.9	7283.7	9213.4	10791.7	13552.4	15153.0	15063.8	14539.6	12052.2	9475.5	7027.2
72.5°	4885.6	4935.8	6921.2	8287.6	11120.8	12905.5	12710.3	12849.7	10273.1	7785.7	5649.6
75°	3284.9	3346.3	4924.6	5928.5	8181.6	9799.0	9364.0	9732.1	7947.4	5895.0	4121.5
77.5°	2069.1	2108.2	3128.8	3887.3	5588.3	6670.2	6235.2	6240.8	4578.8	3173.4	2214.1
80°	1316.2	1327.4	1896.2	2242.0	3234.7	4010.0	3547.0	2883.4	2063.5	1684.3	1321.8
82.5°	764.1	747.3	1132.2	1266.0	1539.3	1522.6	1260.4	1193.5	903.5	842.1	674.8
85°	306.7	284.4	496.4	462.9	468.5	496.4	368.1	368.1	295.6	228.7	167.3
87.5°	61.3	61.3	66.9	61.3	61.3	66.9	50.2	50.2	44.6	44.6	44.6
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°	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5	6112.5
2.5°	6067.9	6056.8	6028.9	5956.4	5917.3	5895.0	5861.6	5850.4	5844.8	5850.4	5867.1
5°	6084.6	6045.6	5967.5	5850.4	5772.3	5722.1	5666.4	5644.0	5627.3	5627.3	5644.0
7.5°	6095.8	6034.4	5900.6	5727.7	5616.2	5538.1	5471.2	5443.3	5437.7	5454.4	5460.0
10°	6101.4	6012.1	5822.5	5605.0	5460.0	5359.6	5292.7	5276.0	5292.7	5326.2	5331.7
12.5°	6140.4	6017.7	5777.9	5521.4	5348.5	5248.1	5197.9	5197.9	5242.5	5303.8	5309.4
15°	6207.3	6056.8	5755.6	5454.4	5276.0	5186.7	5170.0	5197.9	5264.8	5359.6	5370.8
17.5°	6257.5	6079.1	5705.4	5365.2	5181.1	5125.4	5153.3	5220.2	5315.0	5443.3	5454.4
20°	6291.0	6079.1	5632.9	5259.2	5086.3	5075.2	5153.3	5259.2	5359.6	5510.2	5526.9
22.5°	6324.5	6067.9	5549.2	5131.0	4980.4	5013.8	5158.8	5292.7	5393.1	5554.8	5582.7
25°	6385.8	6084.6	5465.6	5002.7	4868.8	4963.6	5153.3	5315.0	5421.0	5588.3	5632.9
27.5°	6469.5	6123.7	5404.2	4885.6	4757.3	4885.6	5114.2	5309.4	5421.0	5582.7	5632.9
30°	6558.7	6168.3	5331.7	4757.3	4629.0	4774.0	5030.6	5248.1	5376.3	5526.9	5588.3
32.5°	6653.5	6218.5	5270.4	4617.9	4472.9	4623.4	4907.9	5153.3	5292.7	5432.1	5499.0
35°	6781.8	6307.7	5236.9	4506.3	4333.4	4467.3	4751.7	5030.6	5181.1	5309.4	5387.5
37.5°	6937.9	6419.3	5220.2	4394.8	4182.8	4294.4	4584.4	4880.0	5041.7	5147.7	5220.2
40°	7116.4	6558.7	5214.6	4288.8	4032.3	4115.9	4411.5	4707.1	4863.2	4946.9	5008.3
42.5°	7317.2	6714.9	5203.5	4182.8	3881.7	3948.6	4244.2	4534.2	4668.1	4740.6	4796.3
45°	7529.1	6871.0	5181.1	4054.6	3719.9	3798.0	4071.3	4327.8	4467.3	4528.6	4590.0
47.5°	7741.0	7027.2	5136.5	3909.6	3574.9	3647.4	3887.3	4110.3	4221.9	4277.7	4339.0
50°	7947.4	7166.6	5030.6	3742.2	3424.4	3491.3	3675.3	3825.9	3909.6	3954.2	4015.5
52.5°	8131.4	7261.4	4880.0	3547.0	3273.8	3307.2	3429.9	3558.2	3625.1	3630.7	3686.5
55°	8287.6	7311.6	4662.5	3346.3	3112.0	3117.6	3184.5	3284.9	3312.8	3290.5	3329.5
57.5°	8376.8	7283.7	4422.7	3139.9	2944.7	2922.4	2972.6	3022.8	3028.4	2972.6	3011.6
60°	8399.1	7155.4	4110.3	2933.6	2777.4	2716.1	2732.8	2721.6	2710.5	2688.2	2721.6
62.5°	8287.6	6882.2	3764.6	2732.8	2598.9	2504.1	2498.6	2493.0	2509.7	2515.3	2520.9
65°	7880.5	6369.1	3351.8	2526.4	2409.3	2281.0	2275.5	2342.4	2364.7	2331.2	2342.4
67.5°	7094.1	5582.7	2900.1	2286.6	2169.5	2058.0	2102.6	2141.6	2180.7	2169.5	2180.7
70°	5978.7	4584.4	2487.4	2018.9	1907.4	1846.0	1896.2	1929.7	1935.3	1924.1	1935.3
72.5°	4701.5	3580.5	2102.6	1745.6	1645.3	1617.4	1678.7	1706.6	1756.8	1779.1	1784.7
75°	3396.5	2643.6	1723.3	1450.1	1366.4	1366.4	1422.2	1472.4	1517.0	1489.1	1472.4
77.5°	1896.2	1578.3	1238.1	998.3	1015.0	1093.1	1115.4	1171.2	1215.8	1210.2	1199.1
80°	1148.9	987.2	836.6	646.9	641.4	702.7	847.7	942.5	964.8	914.6	909.1
82.5°	596.8	518.7	446.2	362.5	401.6	468.5	490.8	591.2	652.5	630.2	658.1
85°	150.6	145.0	161.7	167.3	206.4	228.7	251.0	295.6	195.2	94.8	94.8
87.5°	44.6	44.6	55.8	55.8	72.5	89.2	83.7	83.7	44.6	5.6	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)