

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: P841674

Luminaire Tested: **ARCH4-210-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841674
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: ARCH4-210-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31654 lumens
Efficiency: N/A
Efficacy: 148.5 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): 213.1
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

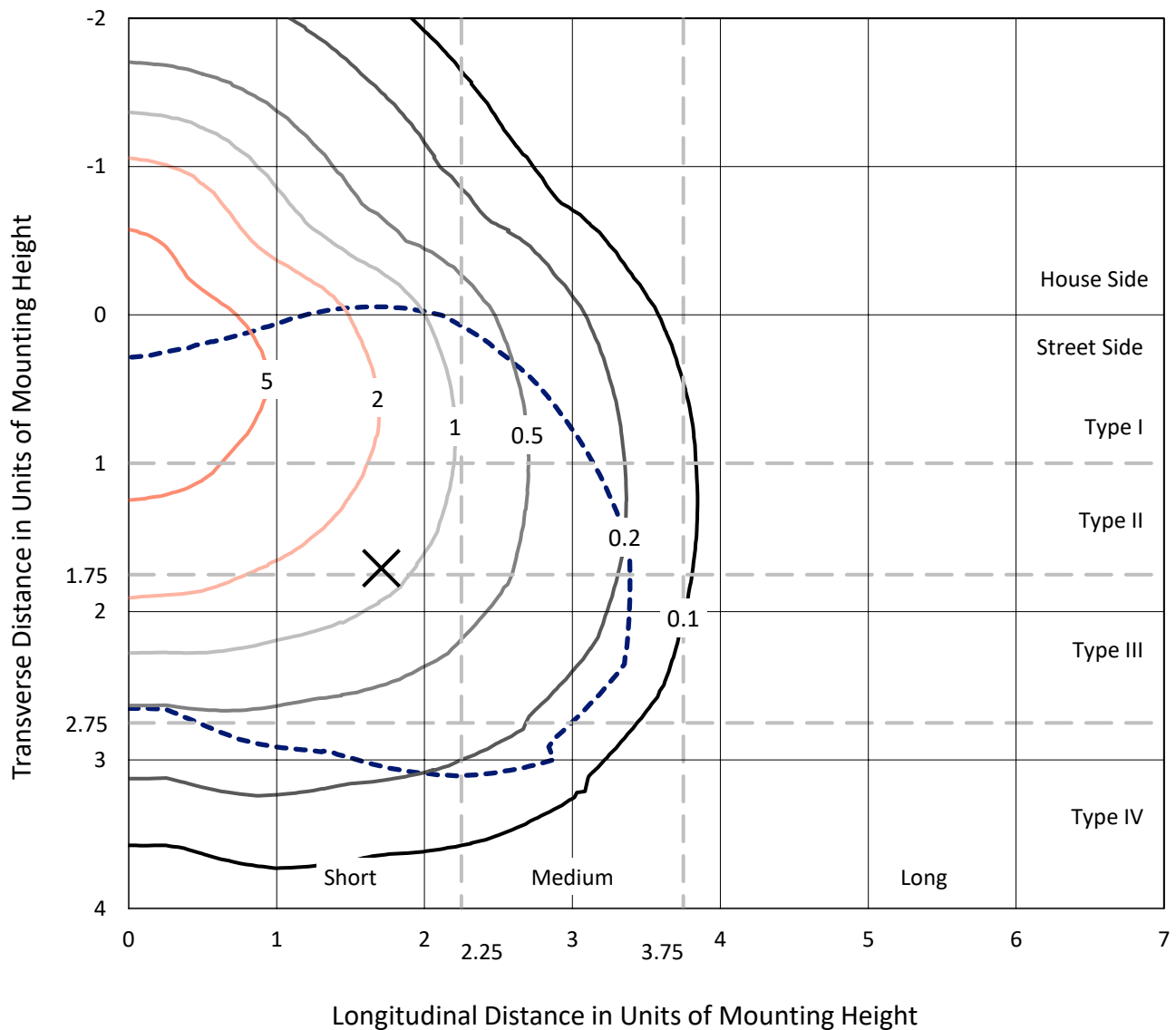


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

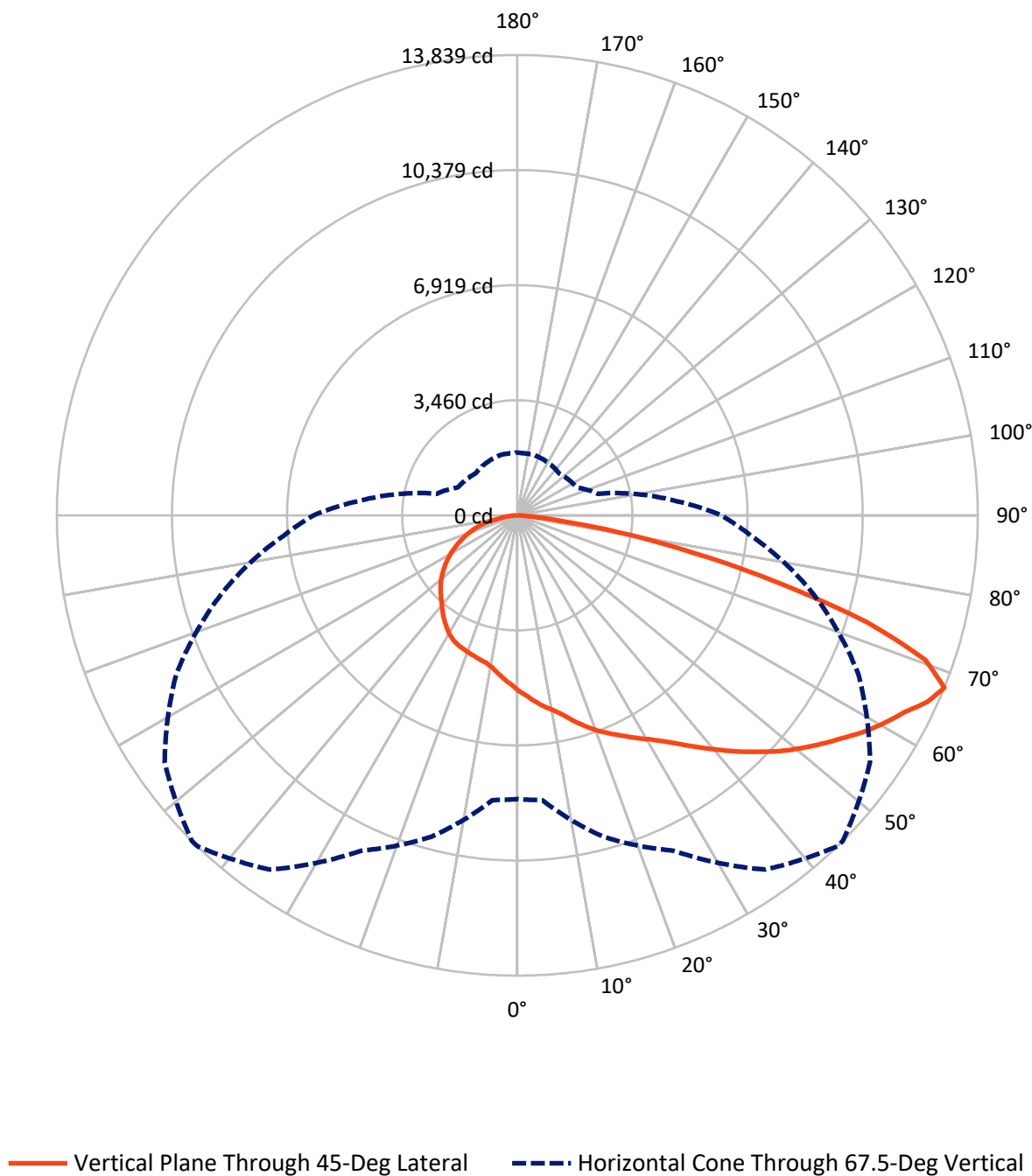


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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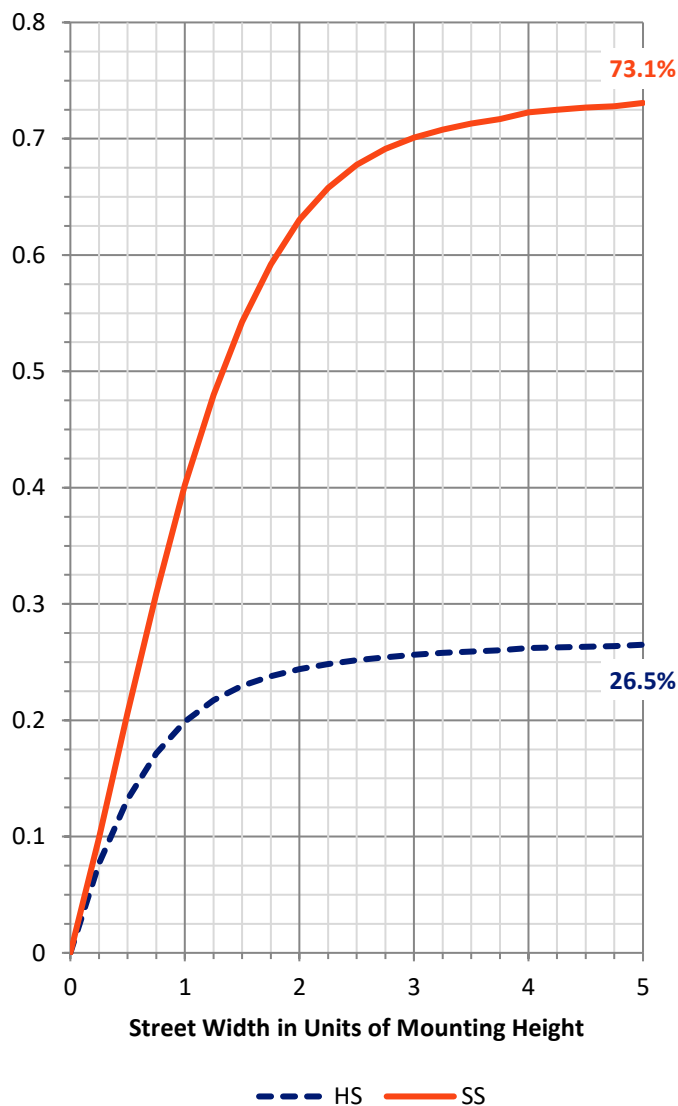
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8456.4	0.0	8456.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	23197.6	0.0	23197.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	31654.0	0.0	31654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.5	1.6
10°-20°	1561.4	4.9
20°-30°	2695.2	8.5
30°-40°	3974.5	12.6
40°-50°	5384.7	17.0
50°-60°	6581.4	20.8
60°-70°	6787.8	21.4
70°-80°	3717.9	11.7
80°-90°	445.6	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°	31654.0	100.0
0°-180°	31654.0	100.0

Coefficient of Utilization



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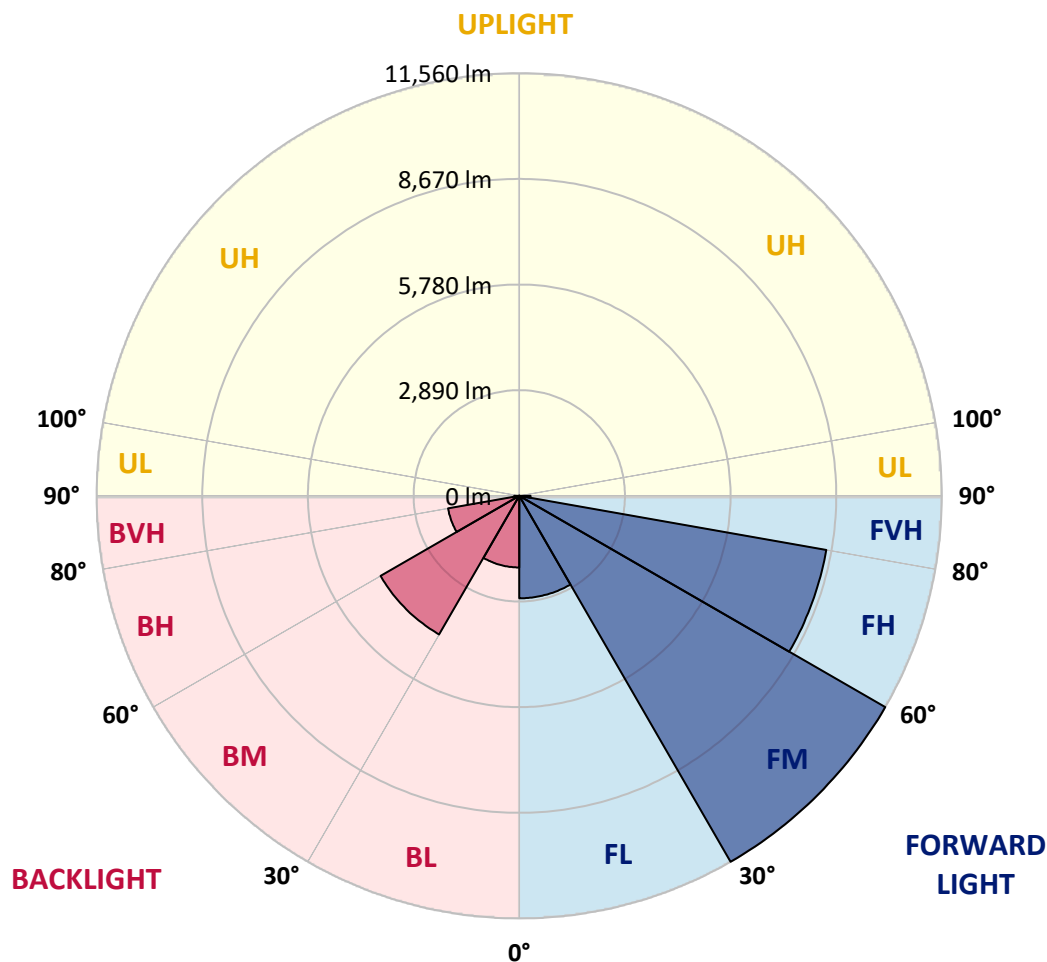
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2802.2	8.9			
FM	(30°-60°)	11560.3	36.5			
FH	(60°-80°)	8528.1	26.9			G4/12000
FVH	(80°-90°)	307.0	1.0			G3/500
BL	(0°-30°)	1959.9	6.2	B3/2500		
BM	(30°-60°)	4380.3	13.8	B3/5000		
BH	(60°-80°)	1977.6	6.2	B3/2500		G3/2500
BVH	(80°-90°)	138.6	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°	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3
2.5°	5510.5	5505.7	5515.3	5481.6	5438.2	5433.4	5433.4	5404.5	5370.8	5303.4	5250.4
5°	5770.6	5761.0	5765.8	5717.6	5659.8	5630.9	5626.1	5563.5	5486.4	5380.4	5284.1
7.5°	6011.5	6001.8	5997.0	5944.0	5857.3	5809.1	5804.3	5712.8	5621.3	5457.5	5317.8
10°	6237.8	6228.2	6218.6	6146.3	6040.4	5968.1	5958.5	5842.9	5727.3	5524.9	5346.7
12.5°	6526.9	6507.6	6498.0	6411.3	6257.1	6180.0	6165.6	6011.5	5866.9	5621.3	5404.5
15°	6830.3	6815.9	6801.4	6719.5	6546.1	6445.0	6420.9	6228.2	6030.7	5746.5	5491.2
17.5°	7056.7	7042.3	7042.3	6970.0	6811.1	6695.4	6676.2	6445.0	6199.3	5862.1	5558.7
20°	7196.4	7181.9	7196.4	7153.0	7032.6	6936.3	6917.0	6661.7	6367.9	5968.1	5616.5
22.5°	7297.6	7283.1	7307.2	7287.9	7201.2	7143.4	7129.0	6878.5	6541.3	6078.9	5674.3
25°	7475.8	7475.8	7475.8	7442.1	7360.2	7340.9	7340.9	7124.1	6762.9	6223.4	5761.0
27.5°	7832.2	7813.0	7788.9	7692.5	7552.8	7548.0	7576.9	7374.6	7018.2	6411.3	5866.9
30°	8357.3	8347.6	8256.1	8053.8	7817.8	7793.7	7813.0	7644.4	7292.7	6608.7	5987.4
32.5°	9036.4	9002.7	8814.9	8511.4	8174.2	8063.4	8102.0	7923.7	7581.7	6811.1	6103.0
35°	9518.1	9527.8	9392.9	9118.3	8718.5	8424.7	8453.6	8236.8	7894.8	7037.4	6247.5
37.5°	10072.1	10105.8	9903.5	9696.4	9325.5	8824.5	8853.4	8559.6	8207.9	7321.6	6401.6
40°	10838.0	10770.5	10428.5	10182.9	9773.4	9243.6	9267.7	8920.8	8569.2	7591.4	6579.8
42.5°	11478.6	11358.2	10943.9	10630.8	10139.5	9686.7	9710.8	9311.0	8935.3	7890.0	6777.3
45°	12398.6	12066.3	11469.0	11314.8	10515.2	10120.2	10144.3	9725.3	9320.6	8207.9	6989.3
47.5°	12933.3	12403.4	12022.9	11941.0	10929.5	10568.2	10597.1	10163.6	9734.9	8569.2	7210.9
50°	12899.6	12557.6	12446.8	12244.5	11295.6	10987.3	11016.2	10616.4	10154.0	8925.7	7422.8
52.5°	12678.0	12740.6	12682.8	12345.6	11661.6	11391.9	11425.6	11064.3	10582.7	9258.0	7620.3
55°	13020.0	13063.3	12952.6	12509.4	12066.3	11796.5	11835.0	11536.4	11006.5	9551.8	7788.9
57.5°	13429.4	13275.3	13164.5	12798.4	12485.3	12234.8	12278.2	12018.1	11372.6	9787.9	7918.9
60°	13410.2	13087.4	13198.2	12817.7	12769.5	12639.5	12678.0	12413.1	11652.0	9961.3	7971.9
62.5°	12422.7	12249.3	12808.1	12678.0	13000.7	13000.7	13048.9	12653.9	11820.6	10033.5	7943.0
65°	10707.9	10717.5	11700.2	12239.7	13275.3	13496.9	13535.4	12803.2	11724.3	9821.6	7673.3
67.5°	8530.7	8593.3	10004.6	11127.0	13000.7	13834.0	13838.9	12938.1	11310.0	9224.3	7047.1
70°	6242.7	6290.8	7957.5	9320.6	11705.0	13087.4	13010.4	12557.6	10409.3	8183.9	6069.3
72.5°	4219.6	4262.9	5977.7	7157.9	9604.8	11146.2	10977.6	11098.1	8872.7	6724.3	4879.5
75°	2837.1	2890.1	4253.3	5120.3	7066.3	8463.2	8087.5	8405.4	6864.0	5091.4	3559.7
77.5°	1787.1	1820.8	2702.3	3357.4	4826.5	5761.0	5385.3	5390.1	3954.6	2740.8	1912.3
80°	1136.8	1146.4	1637.7	1936.4	2793.8	3463.3	3063.5	2490.3	1782.2	1454.7	1141.6
82.5°	659.9	645.5	977.8	1093.4	1329.5	1315.0	1088.6	1030.8	780.3	727.3	582.8
85°	264.9	245.7	428.7	399.8	404.6	428.7	317.9	317.9	255.3	197.5	144.5
87.5°	53.0	53.0	57.8	53.0	53.0	57.8	43.4	43.4	38.5	38.5	38.5
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°	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3	5279.3
2.5°	5240.8	5231.1	5207.0	5144.4	5110.7	5091.4	5062.5	5052.9	5048.1	5052.9	5067.3
5°	5255.2	5221.5	5154.0	5052.9	4985.5	4942.1	4893.9	4874.7	4860.2	4860.2	4874.7
7.5°	5264.8	5211.9	5096.2	4946.9	4850.6	4783.1	4725.3	4701.3	4696.4	4710.9	4715.7
10°	5269.7	5192.6	5028.8	4841.0	4715.7	4629.0	4571.2	4556.8	4571.2	4600.1	4604.9
12.5°	5303.4	5197.4	4990.3	4768.7	4619.4	4532.7	4489.3	4489.3	4527.9	4580.8	4585.7
15°	5361.2	5231.1	4971.0	4710.9	4556.8	4479.7	4465.2	4489.3	4547.1	4629.0	4638.6
17.5°	5404.5	5250.4	4927.7	4633.8	4474.9	4426.7	4450.8	4508.6	4590.5	4701.3	4710.9
20°	5433.4	5250.4	4865.0	4542.3	4393.0	4383.3	4450.8	4542.3	4629.0	4759.1	4773.5
22.5°	5462.3	5240.8	4792.8	4431.5	4301.5	4330.4	4455.6	4571.2	4657.9	4797.6	4821.7
25°	5515.3	5255.2	4720.5	4320.7	4205.1	4287.0	4450.8	4590.5	4682.0	4826.5	4865.0
27.5°	5587.6	5288.9	4667.5	4219.6	4108.8	4219.6	4417.1	4585.7	4682.0	4821.7	4865.0
30°	5664.6	5327.5	4604.9	4108.8	3998.0	4123.2	4344.8	4532.7	4643.5	4773.5	4826.5
32.5°	5746.5	5370.8	4551.9	3988.4	3863.1	3993.2	4238.8	4450.8	4571.2	4691.6	4749.4
35°	5857.3	5447.9	4523.0	3892.0	3742.7	3858.3	4104.0	4344.8	4474.9	4585.7	4653.1
37.5°	5992.2	5544.2	4508.6	3795.7	3612.7	3709.0	3959.5	4214.8	4354.4	4446.0	4508.6
40°	6146.3	5664.6	4503.8	3704.2	3482.6	3554.8	3810.1	4065.4	4200.3	4272.6	4325.5
42.5°	6319.7	5799.5	4494.1	3612.7	3352.5	3410.3	3665.6	3916.1	4031.7	4094.3	4142.5
45°	6502.8	5934.4	4474.9	3501.9	3212.9	3280.3	3516.3	3737.9	3858.3	3911.3	3964.3
47.5°	6685.8	6069.3	4436.3	3376.6	3087.6	3150.2	3357.4	3550.0	3646.4	3694.5	3747.5
50°	6864.0	6189.7	4344.8	3232.1	2957.6	3015.4	3174.3	3304.4	3376.6	3415.2	3468.1
52.5°	7023.0	6271.6	4214.8	3063.5	2827.5	2856.4	2962.4	3073.2	3131.0	3135.8	3183.9
55°	7157.9	6314.9	4026.9	2890.1	2687.8	2692.6	2750.4	2837.1	2861.2	2842.0	2875.7
57.5°	7234.9	6290.8	3819.8	2711.9	2543.3	2524.0	2567.4	2610.7	2615.6	2567.4	2601.1
60°	7254.2	6180.0	3550.0	2533.7	2398.8	2345.8	2360.3	2350.6	2341.0	2321.7	2350.6
62.5°	7157.9	5944.0	3251.4	2360.3	2244.7	2162.8	2158.0	2153.1	2167.6	2172.4	2177.2
65°	6806.2	5500.9	2894.9	2182.0	2080.9	1970.1	1965.3	2023.1	2042.4	2013.5	2023.1
67.5°	6127.1	4821.7	2504.8	1974.9	1873.8	1777.4	1816.0	1849.7	1883.4	1873.8	1883.4
70°	5163.7	3959.5	2148.3	1743.7	1647.4	1594.4	1637.7	1666.6	1671.5	1661.8	1671.5
72.5°	4060.6	3092.4	1816.0	1507.7	1421.0	1396.9	1449.9	1474.0	1517.3	1536.6	1541.4
75°	2933.5	2283.2	1488.4	1252.4	1180.1	1180.1	1228.3	1271.7	1310.2	1286.1	1271.7
77.5°	1637.7	1363.2	1069.3	862.2	876.7	944.1	963.4	1011.5	1050.1	1045.3	1035.6
80°	992.3	852.6	722.5	558.8	553.9	606.9	732.2	814.1	833.3	790.0	785.1
82.5°	515.4	448.0	385.3	313.1	346.8	404.6	423.9	510.6	563.6	544.3	568.4
85°	130.1	125.2	139.7	144.5	178.2	197.5	216.8	255.3	168.6	81.9	81.9
87.5°	38.5	38.5	48.2	48.2	62.6	77.1	72.3	72.3	38.5	4.8	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)