

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: P836327

Luminaire Tested: **ARCH3-170-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23264 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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



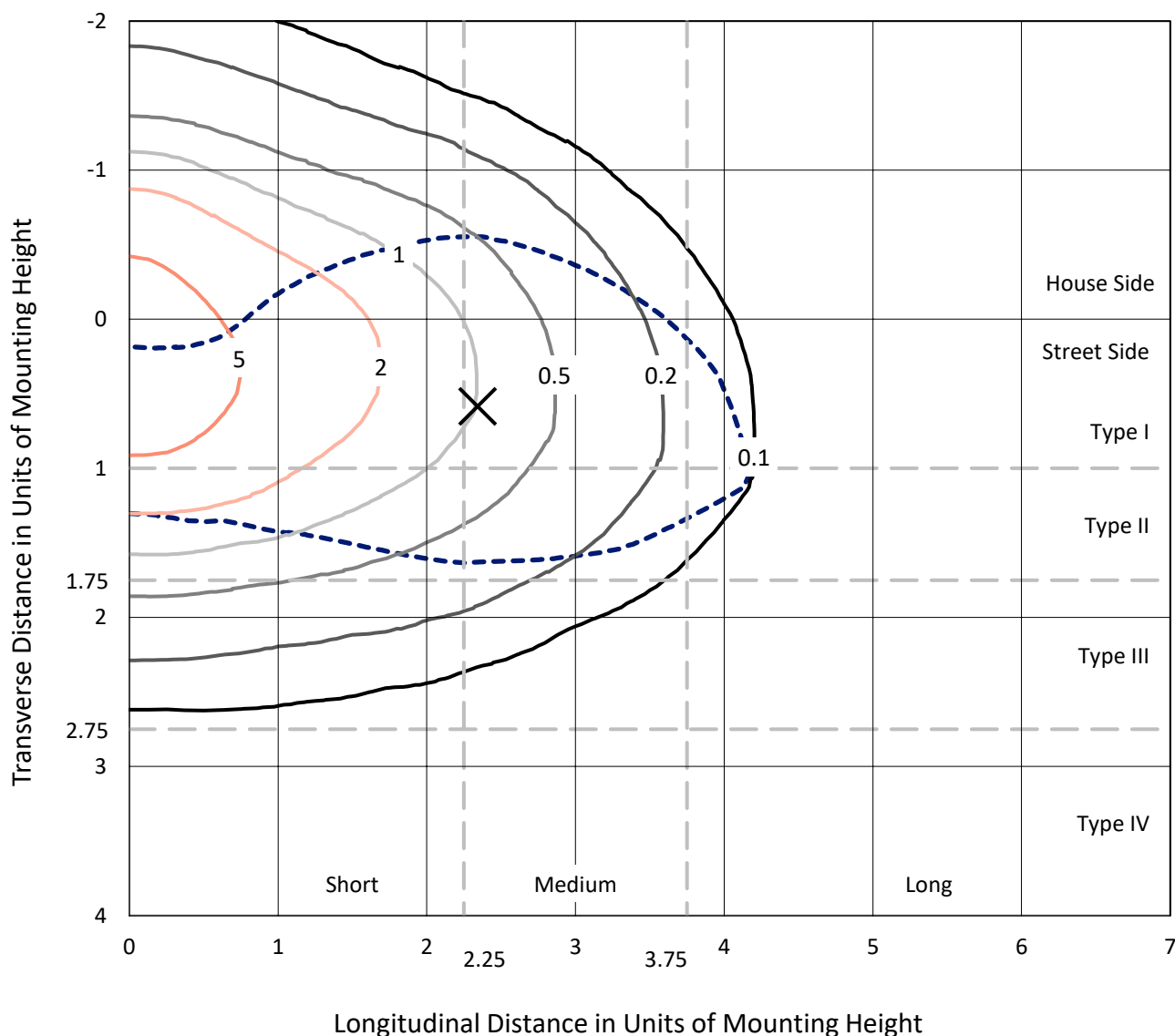
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

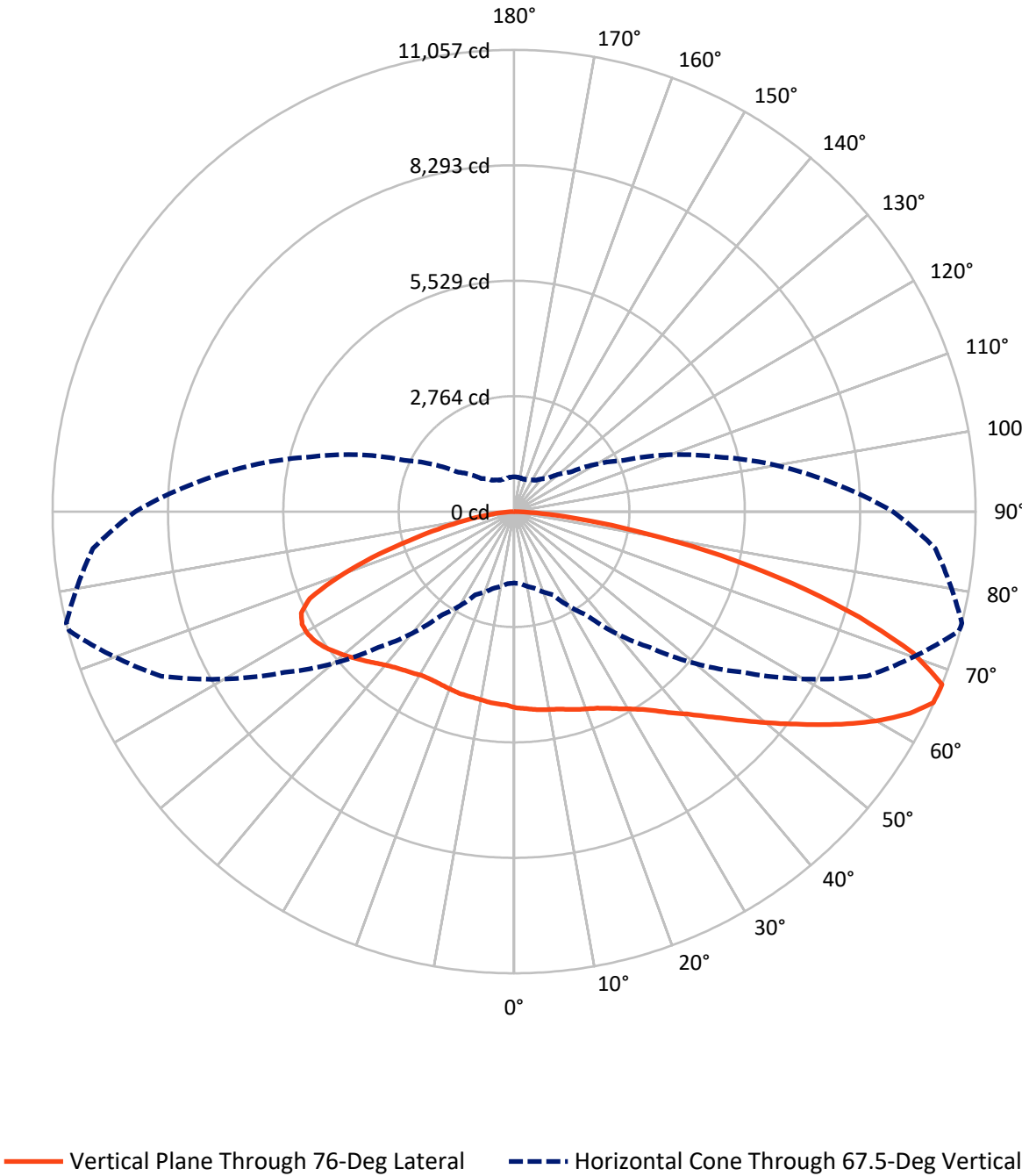
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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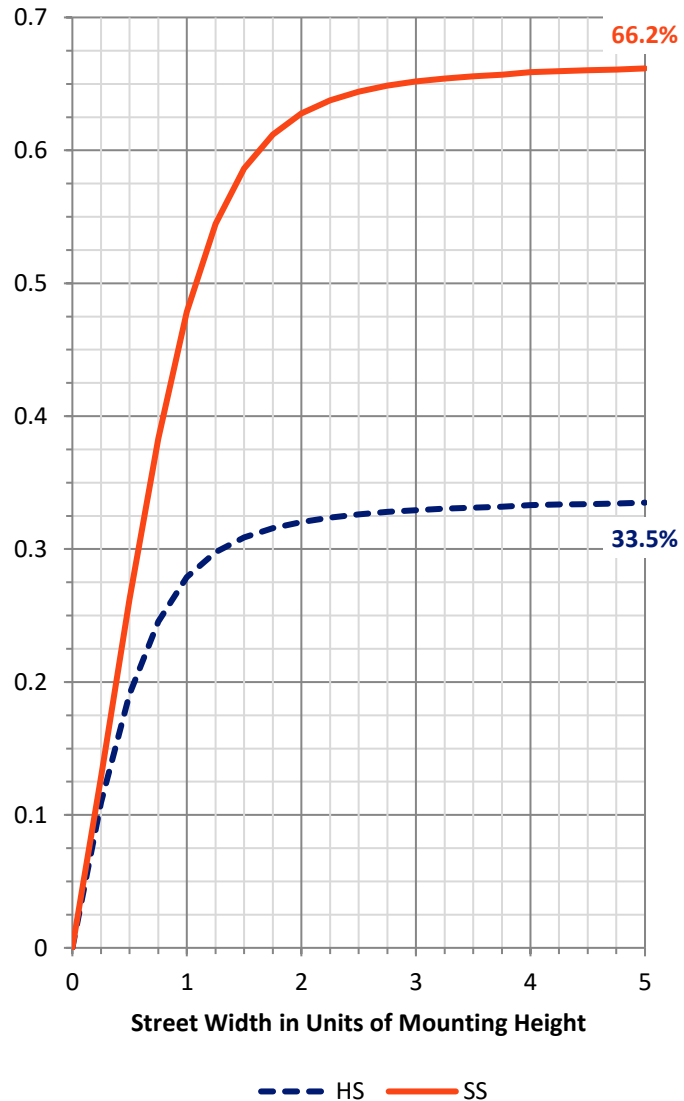
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7861.0	0.0	7861.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	15403.0	0.0	15403.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	23264.0	0.0	23264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.1	1.9
10°-20°	1385.3	6.0
20°-30°	2353.7	10.1
30°-40°	3349.0	14.4
40°-50°	4229.7	18.2
50°-60°	4579.4	19.7
60°-70°	4259.4	18.3
70°-80°	2287.7	9.8
80°-90°	366.6	1.6
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°	23264.0	100.0
0°-180°	23264.0	100.0

Coefficient of Utilization



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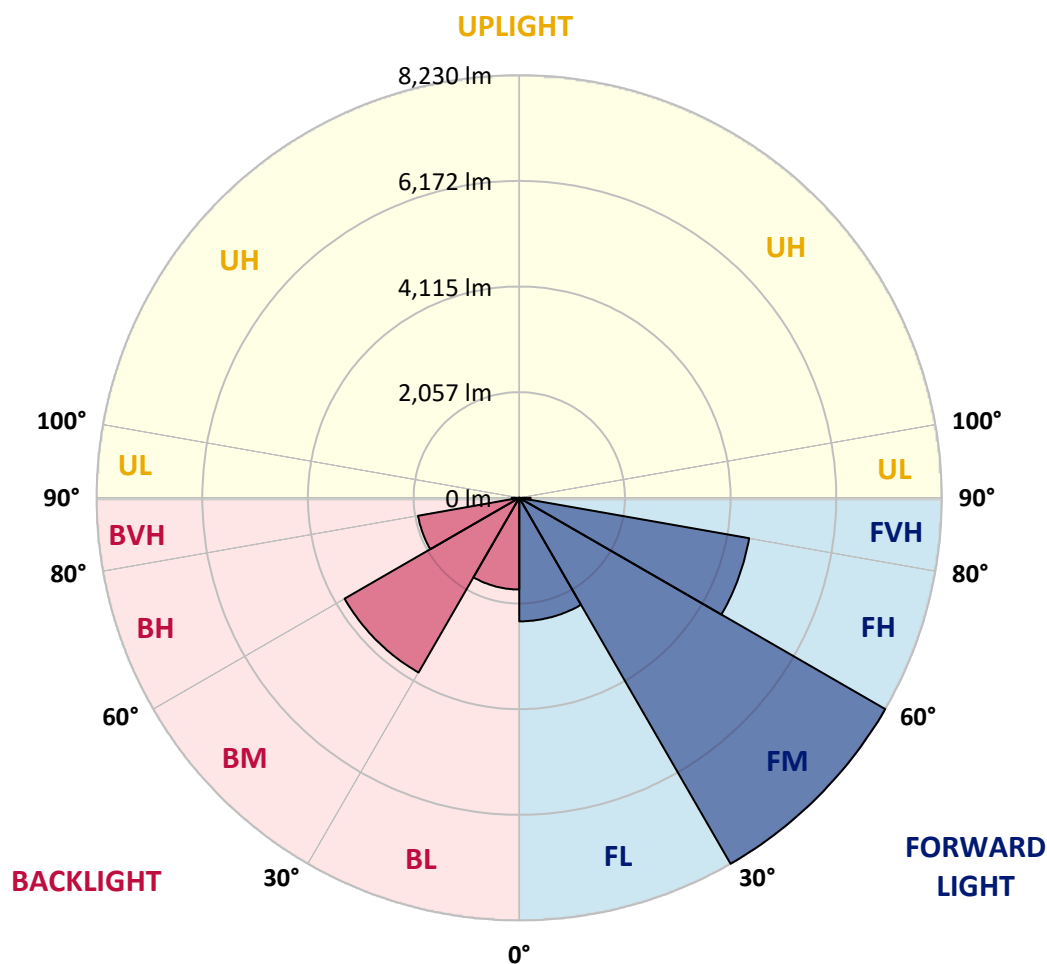
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2405.7	10.3			
FM	(30°-60°)	8229.9	35.4			
FH	(60°-80°)	4545.6	19.5			G2/5000
FVH	(80°-90°)	221.7	1.0			G2/225
BL	(0°-30°)	1786.4	7.7	B3/2500		
BM	(30°-60°)	3928.3	16.9	B3/5000		
BH	(60°-80°)	2001.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	144.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3
2.5°	4841.8	4833.2	4798.6	4802.9	4802.9	4798.6	4746.8	4725.2	4725.2	4720.9	4673.4
5°	5014.6	5001.6	4962.7	4954.1	4936.8	4915.2	4833.2	4785.7	4764.1	4759.7	4695.0
7.5°	5217.6	5200.3	5152.8	5126.9	5083.7	5027.5	4923.9	4850.4	4798.6	4794.3	4703.6
10°	5420.6	5403.3	5347.2	5299.6	5239.2	5148.5	5014.6	4906.6	4824.5	4815.9	4707.9
12.5°	5662.5	5645.2	5576.1	5515.6	5424.9	5304.0	5126.9	4980.0	4867.7	4854.8	4720.9
15°	5917.3	5891.4	5822.3	5753.2	5640.9	5485.4	5273.7	5079.4	4936.8	4915.2	4759.7
17.5°	6128.9	6094.4	6038.2	5969.1	5843.9	5662.5	5420.6	5178.7	5001.6	4984.3	4798.6
20°	6310.3	6284.4	6224.0	6159.2	6025.3	5826.6	5558.8	5278.0	5062.1	5040.5	4828.9
22.5°	6483.1	6448.5	6414.0	6366.5	6219.6	5999.4	5718.6	5399.0	5139.8	5113.9	4867.7
25°	6681.8	6642.9	6630.0	6604.0	6431.3	6206.7	5913.0	5550.2	5247.8	5217.6	4936.8
27.5°	6928.0	6884.8	6858.9	6858.9	6651.5	6418.3	6120.3	5727.2	5373.1	5347.2	5023.2
30°	7187.1	7135.3	7096.4	7096.4	6863.2	6630.0	6323.3	5904.3	5515.6	5485.4	5135.5
32.5°	7416.0	7364.2	7321.0	7316.7	7074.8	6841.6	6534.9	6098.7	5688.4	5649.5	5273.7
35°	7593.1	7545.6	7506.7	7515.4	7286.5	7057.6	6772.5	6357.8	5904.3	5861.1	5455.1
37.5°	7701.1	7683.8	7662.2	7692.5	7480.8	7264.9	7018.7	6608.4	6150.5	6111.7	5679.7
40°	7757.3	7744.3	7830.7	7869.6	7645.0	7450.6	7264.9	6867.5	6418.3	6375.1	5938.9
42.5°	7839.3	7947.3	7981.9	7973.2	7765.9	7593.1	7489.5	7148.3	6733.6	6694.7	6249.9
45°	7545.6	7519.7	7709.8	7813.4	7774.5	7683.8	7701.1	7485.2	7100.7	7061.9	6608.4
47.5°	7152.6	7118.0	7226.0	7480.8	7632.0	7718.4	7891.2	7835.0	7524.0	7489.5	7027.3
50°	6323.3	6370.8	6772.5	7113.7	7411.7	7709.8	8051.0	8210.8	7990.5	7955.9	7476.5
52.5°	5403.3	5450.8	5869.8	6655.9	7143.9	7645.0	8167.6	8586.5	8495.8	8457.0	7955.9
55°	4733.8	4837.5	5312.6	5882.7	6763.8	7442.0	8236.7	8971.0	9040.1	9005.5	8478.6
57.5°	4068.7	4146.4	4504.9	5010.3	6245.5	7087.8	8232.4	9329.4	9610.2	9575.6	9009.8
60°	3286.9	3386.2	3671.3	4215.5	5554.5	6664.5	8111.4	9610.2	10158.7	10132.8	9523.8
62.5°	2751.3	2781.6	2984.6	3455.4	4664.7	6128.9	7839.3	9761.4	10655.4	10638.2	9986.0
65°	2215.7	2220.1	2405.8	2798.8	3805.2	5463.8	7377.2	9705.2	11031.2	11039.8	10318.5
67.5°	1710.4	1732.0	1900.4	2198.5	3023.4	4599.9	6716.3	9325.1	11035.5	11057.1	10128.5
70°	1183.5	1200.7	1455.6	1745.0	2336.7	3667.0	5822.3	8318.8	10128.5	10145.8	9078.9
72.5°	833.6	842.2	1114.4	1395.1	1827.0	2764.3	4392.6	6880.5	8634.1	8647.0	7636.3
75°	622.0	630.6	786.1	1058.2	1399.4	1913.4	3001.8	5269.4	6897.7	6897.7	6029.6
77.5°	440.6	444.9	509.7	729.9	932.9	1291.4	1805.4	3451.0	5062.1	5070.7	4392.6
80°	298.0	302.3	332.6	492.4	583.1	699.7	980.5	1809.7	3191.9	3204.8	2790.2
82.5°	155.5	164.1	185.7	250.5	293.7	388.7	505.3	920.0	1766.5	1801.1	1675.8
85°	60.5	60.5	69.1	82.1	108.0	151.2	233.2	349.9	799.0	825.0	738.6
87.5°	21.6	21.6	25.9	25.9	30.2	34.6	38.9	51.8	90.7	90.7	86.4
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°	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3	4699.3
2.5°	4656.1	4656.1	4634.5	4643.1	4638.8	4630.2	4621.5	4634.5	4621.5	4591.3	4587.0
5°	4664.7	4656.1	4621.5	4617.2	4604.3	4587.0	4565.4	4574.0	4552.4	4526.5	4522.2
7.5°	4669.0	4651.8	4604.3	4587.0	4561.1	4526.5	4492.0	4492.0	4461.7	4435.8	4431.5
10°	4660.4	4638.8	4574.0	4539.5	4492.0	4440.1	4392.6	4379.7	4345.1	4314.9	4314.9
12.5°	4664.7	4634.5	4552.4	4496.3	4431.5	4366.7	4306.2	4289.0	4258.7	4228.5	4224.2
15°	4690.6	4647.4	4543.8	4470.4	4375.3	4301.9	4237.1	4224.2	4198.3	4176.7	4176.7
17.5°	4716.6	4660.4	4530.8	4427.2	4310.5	4228.5	4168.0	4168.0	4150.7	4137.8	4137.8
20°	4729.5	4664.7	4504.9	4366.7	4232.8	4146.4	4090.3	4098.9	4094.6	4090.3	4090.3
22.5°	4759.7	4673.4	4483.3	4310.5	4150.7	4060.0	4008.2	4021.2	4016.8	4016.8	4021.2
25°	4807.3	4695.0	4466.0	4258.7	4073.0	3973.7	3917.5	3926.1	3926.1	3926.1	3926.1
27.5°	4872.0	4738.1	4461.7	4211.2	3995.2	3883.0	3813.8	3813.8	3796.6	3800.9	3805.2
30°	4971.4	4820.2	4470.4	4168.0	3913.2	3770.7	3688.6	3675.6	3671.3	3679.9	3684.3
32.5°	5092.3	4932.5	4522.2	4137.8	3826.8	3645.4	3541.7	3537.4	3524.5	3524.5	3524.5
35°	5243.5	5040.5	4569.7	4133.5	3740.4	3511.5	3399.2	3386.2	3356.0	3343.1	3343.1
37.5°	5437.9	5208.9	4625.9	4103.2	3667.0	3381.9	3248.0	3204.8	3170.3	3166.0	3166.0
40°	5675.4	5399.0	4707.9	4068.7	3589.2	3248.0	3070.9	2997.5	3001.8	3019.1	3019.1
42.5°	5956.2	5632.2	4811.6	4051.4	3476.9	3109.8	2863.6	2777.2	2807.5	2824.7	2829.1
45°	6284.4	5908.6	4928.2	4029.8	3373.3	2954.3	2643.3	2535.4	2548.3	2552.6	2557.0
47.5°	6664.5	6215.3	5049.1	4012.5	3256.7	2760.0	2401.5	2258.9	2254.6	2228.7	2237.3
50°	7061.9	6539.3	5174.4	3982.3	3114.1	2531.0	2146.6	1978.2	1943.6	1904.8	1909.1
52.5°	7485.2	6871.8	5291.0	3934.8	2937.0	2297.8	1904.8	1723.4	1654.2	1611.1	1619.7
55°	7951.6	7213.0	5403.3	3861.4	2751.3	2064.6	1688.8	1503.1	1416.7	1382.1	1386.5
57.5°	8379.2	7541.3	5485.4	3770.7	2548.3	1852.9	1498.8	1317.4	1261.2	1256.9	1261.2
60°	8793.9	7817.7	5519.9	3645.4	2341.0	1658.6	1321.7	1183.5	1144.6	1166.2	1170.5
62.5°	9143.7	7994.8	5502.6	3476.9	2129.4	1472.8	1179.1	1079.8	1053.9	1097.1	1101.4
65°	9346.7	8051.0	5381.7	3235.1	1900.4	1291.4	1045.2	937.3	924.3	950.2	963.2
67.5°	9078.9	7701.1	5053.5	2902.5	1645.6	1123.0	915.7	829.3	807.7	829.3	829.3
70°	8046.6	6673.1	4276.0	2375.6	1364.9	958.9	794.7	734.3	717.0	734.3	729.9
72.5°	6703.4	5550.2	3369.0	1852.9	1075.5	807.7	691.1	634.9	617.6	600.4	591.7
75°	5200.3	4215.5	2444.7	1360.5	812.0	647.9	578.8	526.9	483.7	501.0	492.4
77.5°	3809.5	2958.6	1732.0	941.6	583.1	501.0	453.5	414.6	384.4	419.0	414.6
80°	2453.3	1913.4	1157.5	630.6	401.7	349.9	332.6	311.0	341.2	444.9	453.5
82.5°	1498.8	1213.7	691.1	410.3	263.5	233.2	216.0	216.0	349.9	384.4	388.7
85°	669.5	643.6	375.8	211.6	146.9	133.9	120.9	155.5	142.5	103.7	108.0
87.5°	108.0	112.3	82.1	73.4	56.1	56.1	43.2	30.2	21.6	13.0	13.0
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)