

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: P836257

Luminaire Tested: **ARCH3-160-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22294 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

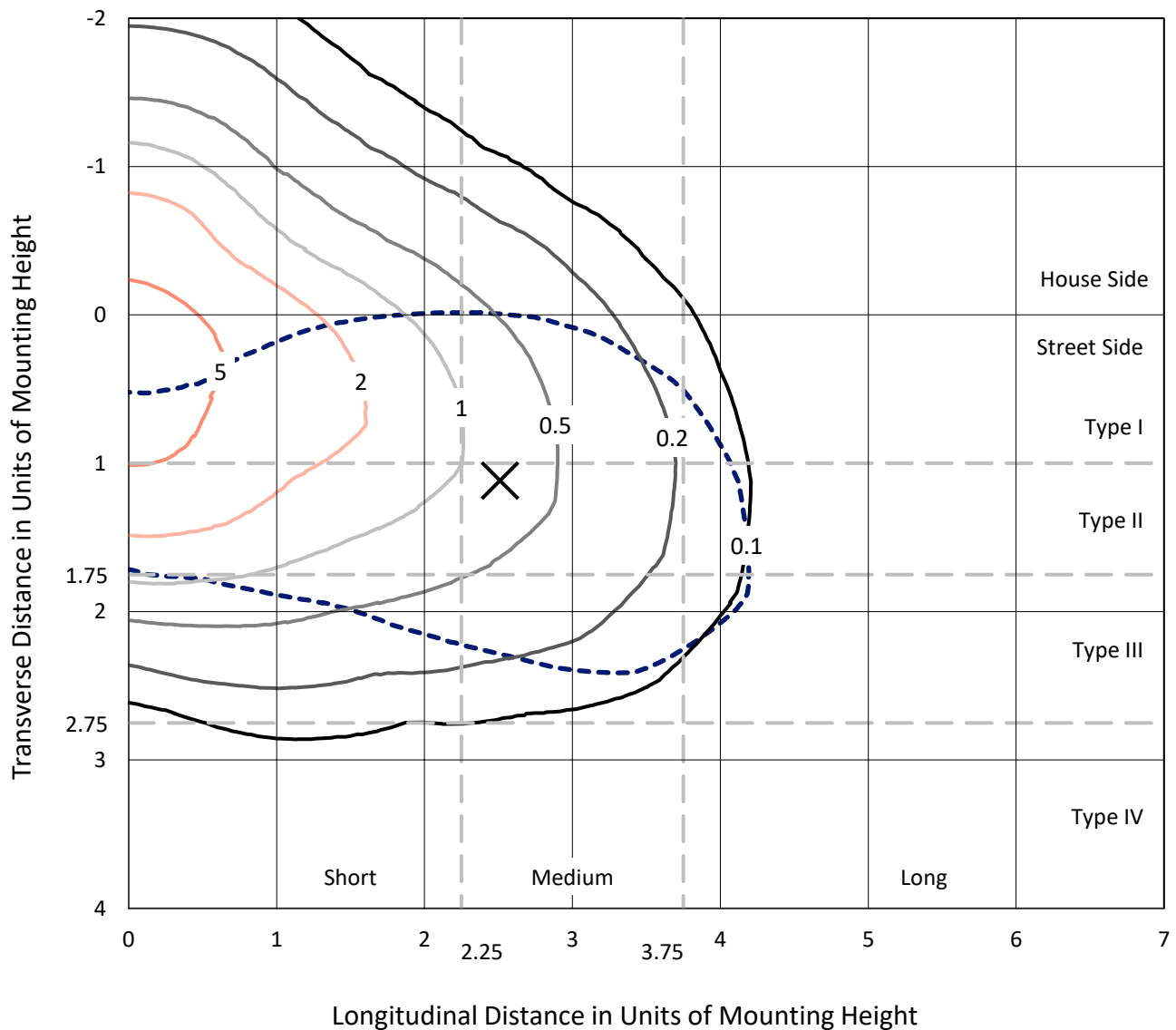
Input Watts (W): 161
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

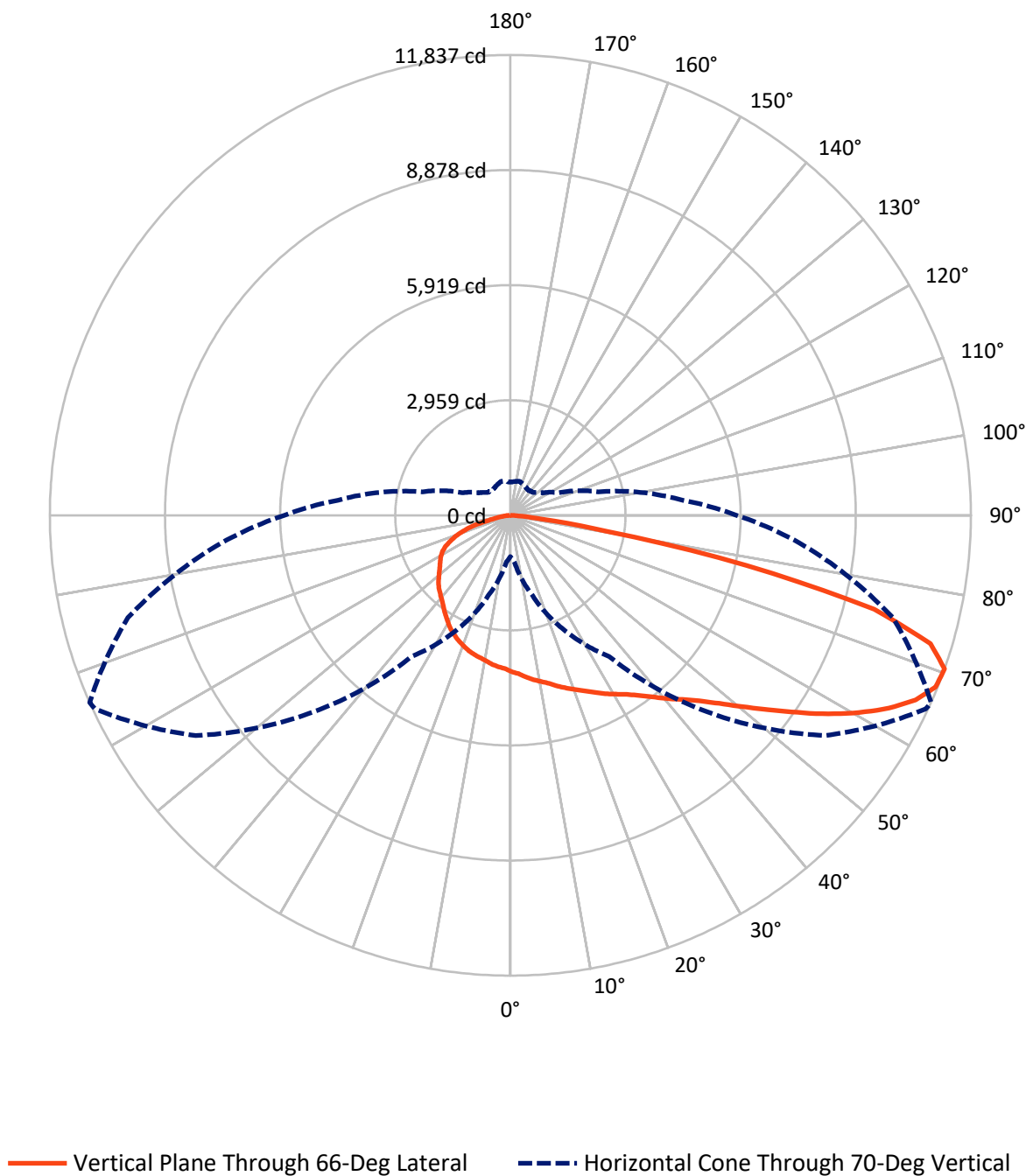
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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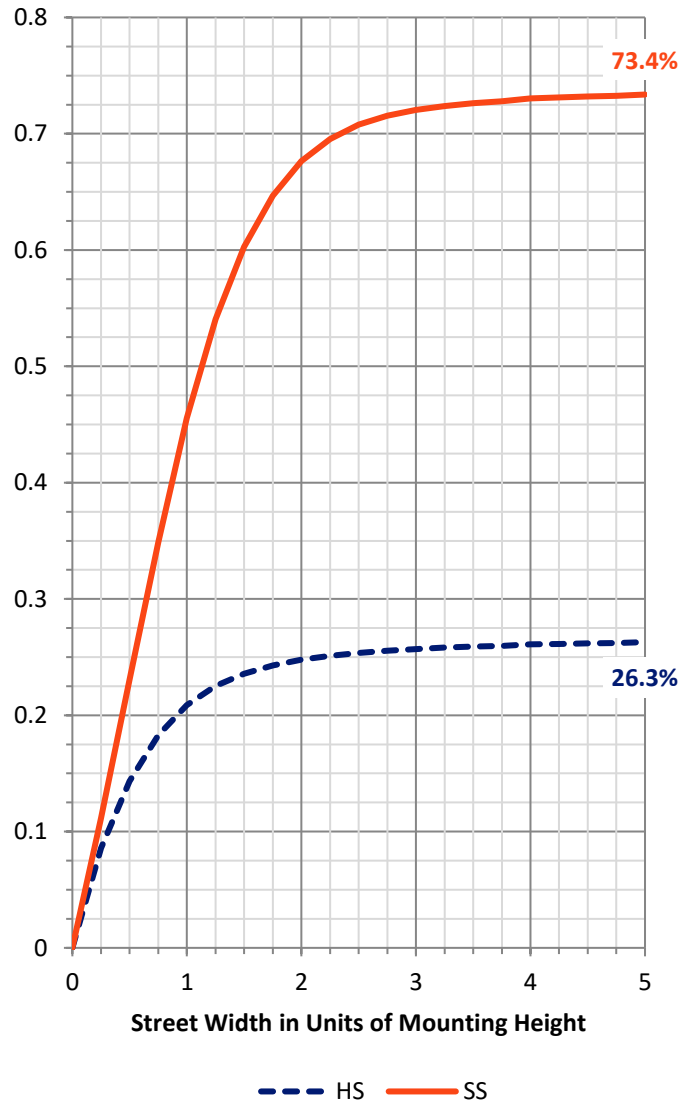
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5907.4	0.0	5907.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	16386.6	0.0	16386.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	22294.0	0.0	22294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	1.7
10°-20°	1159.7	5.2
20°-30°	1944.1	8.7
30°-40°	2910.9	13.1
40°-50°	3891.9	17.5
50°-60°	4544.0	20.4
60°-70°	4518.2	20.3
70°-80°	2674.9	12.0
80°-90°	263.6	1.2
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°	22294.0	100.0
0°-180°	22294.0	100.0

Coefficient of Utilization



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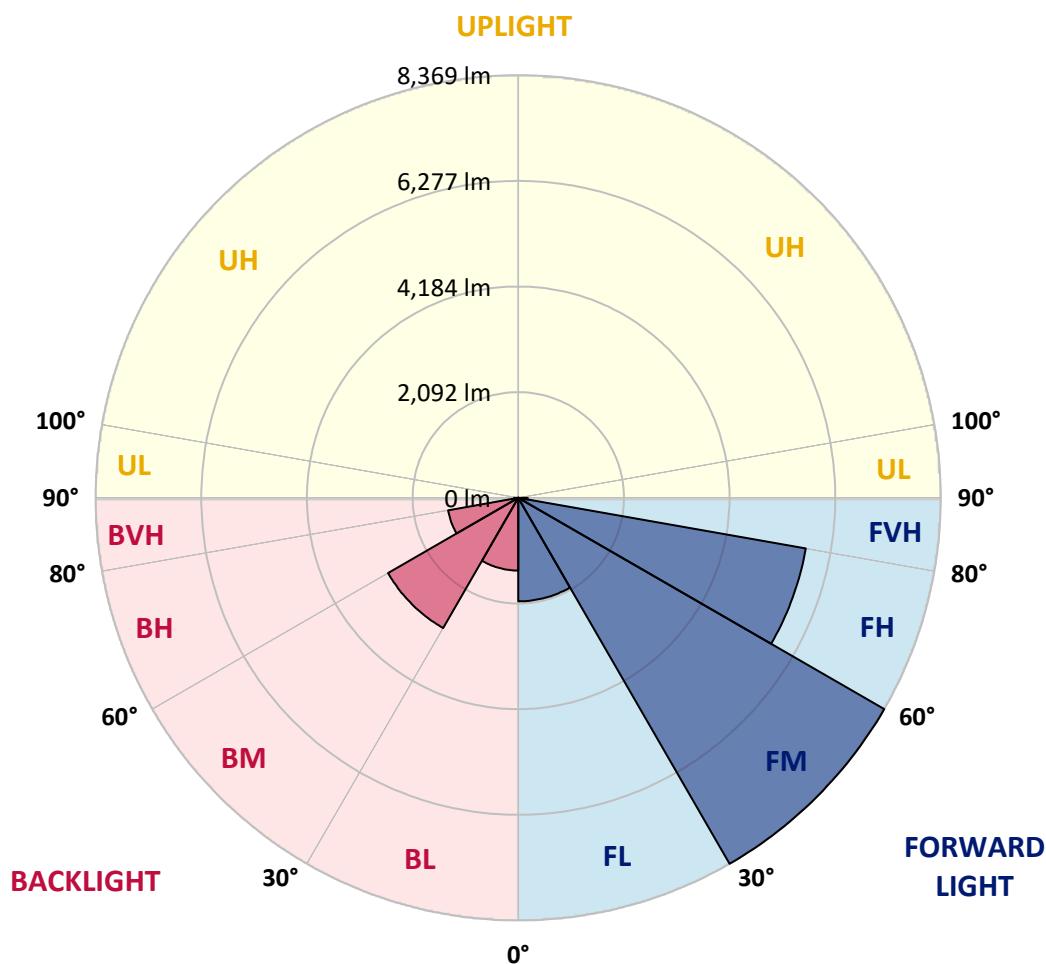
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2050.5	9.2			
FM	(30°-60°)	8368.9	37.5			
FH	(60°-80°)	5782.0	25.9			G3/7500
FVH	(80°-90°)	185.3	0.8			G2/225
BL	(0°-30°)	1440.0	6.5	B3/2500		
BM	(30°-60°)	2977.9	13.4	B3/5000		
BH	(60°-80°)	1411.1	6.3	B3/2500		G3/2500
BVH	(80°-90°)	78.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6
2.5°	4171.5	4164.9	4161.6	4148.5	4118.9	4132.0	4102.5	4082.7	4079.4	4033.4	4007.1
5°	4342.4	4339.1	4332.6	4312.8	4266.8	4273.4	4224.1	4187.9	4178.1	4105.7	4049.9
7.5°	4487.1	4480.5	4477.2	4450.9	4401.6	4398.3	4339.1	4286.5	4270.1	4171.5	4086.0
10°	4598.8	4589.0	4595.5	4569.2	4516.6	4506.8	4431.2	4362.1	4345.7	4220.8	4102.5
12.5°	4694.2	4687.6	4697.4	4674.4	4631.7	4621.8	4546.2	4457.5	4437.7	4293.1	4138.6
15°	4799.3	4776.3	4796.1	4786.2	4756.6	4753.3	4684.3	4585.7	4559.4	4385.2	4194.5
17.5°	4855.2	4842.1	4865.1	4868.4	4855.2	4878.2	4812.5	4694.2	4671.1	4470.6	4243.8
20°	4894.7	4874.9	4901.2	4921.0	4930.8	4976.9	4924.3	4809.2	4782.9	4552.8	4289.8
22.5°	5029.4	4986.7	4990.0	5003.2	5009.7	5075.5	5042.6	4930.8	4904.5	4654.7	4345.7
25°	5368.0	5282.6	5226.7	5187.2	5141.2	5197.1	5177.4	5068.9	5045.9	4776.3	4414.7
27.5°	5894.0	5785.5	5673.7	5558.7	5377.9	5354.9	5322.0	5223.4	5197.1	4898.0	4483.8
30°	6492.3	6383.8	6252.3	6068.2	5729.6	5552.1	5476.5	5368.0	5338.4	5006.4	4549.5
32.5°	7087.2	6991.9	6860.4	6636.9	6153.7	5792.1	5631.0	5519.2	5489.7	5124.8	4628.4
35°	7550.7	7491.6	7406.1	7126.7	6574.4	6074.8	5854.5	5719.8	5686.9	5312.2	4773.0
37.5°	7925.5	7882.8	7810.4	7517.9	6880.2	6357.5	6110.9	5956.4	5920.3	5516.0	4927.5
40°	8477.7	8366.0	8306.8	7882.8	7146.4	6613.9	6400.2	6239.1	6199.7	5732.9	5052.5
42.5°	8947.8	8865.6	8793.3	8208.2	7399.5	6834.1	6673.1	6525.1	6472.5	5946.6	5187.2
45°	9026.7	9059.6	9023.4	8369.3	7800.6	7051.1	6949.2	6853.9	6804.5	6235.9	5391.0
47.5°	9030.0	9030.0	8816.3	8461.3	8296.9	7294.3	7245.0	7277.9	7225.3	6604.0	5634.3
50°	8793.3	8836.1	8724.3	8484.3	8428.4	7537.6	7606.6	7784.1	7731.5	6995.2	5897.3
52.5°	8303.5	8444.9	8441.6	8448.2	8237.8	7744.7	7987.9	8392.3	8303.5	7435.7	6176.7
55°	7439.0	7721.7	7974.8	8191.8	8073.4	7869.6	8454.7	9039.9	8947.8	7928.8	6459.4
57.5°	6699.4	6880.2	7195.7	7810.4	7879.5	7978.1	8891.9	9717.0	9634.8	8474.5	6755.2
60°	5854.5	6104.4	6419.9	7294.3	7642.8	8119.4	9371.9	10377.8	10298.9	9026.7	7041.2
62.5°	4556.1	4878.2	5509.4	6502.1	7297.6	8208.2	9749.9	10959.6	10923.4	9549.4	7297.6
65°	3175.5	3461.4	4345.7	5529.1	6748.7	8168.7	10052.3	11479.0	11446.1	9976.7	7478.4
67.5°	1854.0	2186.0	3185.3	4450.9	5778.9	7895.9	10150.9	11784.7	11784.7	10236.4	7527.7
70°	1058.5	1213.0	2100.5	3244.5	4431.2	7143.1	9874.8	11781.4	11837.3	10177.2	7323.9
72.5°	739.6	808.7	1413.5	2182.7	3004.5	5778.9	9151.6	11212.7	11288.3	9618.4	6627.0
75°	575.3	624.6	996.0	1489.1	1893.4	3924.9	7570.5	9454.0	9654.6	8198.3	5358.2
77.5°	437.2	473.4	581.8	930.3	1213.0	2255.0	4996.6	6199.7	6212.8	5019.6	2873.0
80°	318.9	355.0	387.9	568.7	644.3	1055.2	1886.9	2590.3	2518.0	2429.3	1554.9
82.5°	190.7	226.8	236.7	309.0	315.6	450.3	660.7	835.0	802.1	1068.3	729.8
85°	82.2	115.1	121.6	141.4	134.8	184.1	263.0	220.2	197.2	226.8	157.8
87.5°	19.7	32.9	32.9	36.2	29.6	46.0	49.3	36.2	32.9	39.4	39.4
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°	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6	4023.6
2.5°	4000.5	3990.7	3994.0	3938.1	3921.7	3905.2	3895.4	3888.8	3882.2	3892.1	3901.9
5°	4030.1	4007.1	3980.8	3898.6	3865.8	3829.6	3803.3	3780.3	3770.4	3770.4	3780.3
7.5°	4053.1	4013.7	3957.8	3849.3	3790.2	3740.9	3698.1	3668.5	3652.1	3652.1	3662.0
10°	4056.4	4000.5	3911.8	3780.3	3701.4	3629.1	3579.8	3546.9	3523.9	3523.9	3530.5
12.5°	4076.2	4000.5	3885.5	3727.7	3629.1	3540.3	3481.2	3431.9	3422.0	3422.0	3428.6
15°	4109.0	4017.0	3869.1	3681.7	3563.3	3461.4	3395.7	3343.1	3323.4	3336.5	3339.8
17.5°	4138.6	4026.8	3839.5	3622.5	3481.2	3369.4	3297.1	3251.1	3224.8	3254.3	3254.3
20°	4158.3	4026.8	3796.7	3546.9	3392.4	3267.5	3198.5	3142.6	3122.9	3159.0	3162.3
22.5°	4187.9	4023.6	3750.7	3471.3	3297.1	3165.6	3096.6	3053.8	3044.0	3083.4	3096.6
25°	4220.8	4030.1	3701.4	3385.8	3191.9	3063.7	3011.1	2991.4	2997.9	3047.3	3063.7
27.5°	4257.0	4043.3	3652.1	3290.5	3076.8	2961.8	2932.2	2942.1	2968.4	3030.8	3050.5
30°	4289.8	4046.6	3583.1	3178.7	2945.4	2836.9	2850.0	2892.8	2932.2	2994.7	3017.7
32.5°	4332.6	4049.9	3510.8	3057.1	2804.0	2725.1	2784.3	2853.3	2892.8	2951.9	2978.2
35°	4437.7	4105.7	3454.9	2938.8	2672.5	2629.8	2728.4	2817.1	2840.2	2892.8	2915.8
37.5°	4559.4	4197.8	3425.3	2817.1	2544.3	2534.4	2659.4	2748.1	2754.7	2787.6	2810.6
40°	4635.0	4237.2	3392.4	2715.2	2429.3	2435.8	2564.0	2633.1	2619.9	2642.9	2659.4
42.5°	4710.6	4250.4	3323.4	2629.8	2320.8	2327.4	2426.0	2475.3	2481.9	2531.2	2554.2
45°	4838.8	4286.5	3247.8	2550.9	2222.2	2199.2	2258.3	2324.1	2409.5	2504.9	2531.2
47.5°	5009.7	4362.1	3168.9	2455.6	2126.8	2051.2	2074.2	2189.3	2278.0	2366.8	2383.2
50°	5183.9	4437.7	3096.6	2340.5	2031.5	1893.4	1903.3	2008.5	2080.8	2149.8	2159.7
52.5°	5354.9	4503.5	3034.1	2232.0	1923.0	1706.1	1745.5	1854.0	1903.3	1936.2	1946.0
55°	5525.8	4559.4	2978.2	2140.0	1798.1	1558.1	1594.3	1696.2	1745.5	1762.0	1768.5
57.5°	5703.3	4625.1	2935.5	2061.1	1656.8	1426.7	1449.7	1522.0	1568.0	1587.7	1581.2
60°	5851.3	4681.0	2912.5	1978.9	1515.4	1305.0	1298.5	1364.2	1429.9	1449.7	1443.1
62.5°	5966.3	4717.2	2876.3	1873.7	1390.5	1183.4	1150.5	1236.0	1305.0	1318.2	1328.0
65°	6028.8	4720.5	2787.6	1738.9	1262.3	1051.9	1028.9	1114.4	1157.1	1170.3	1170.3
67.5°	6018.9	4667.9	2613.3	1558.1	1144.0	933.6	913.8	966.4	1028.9	1038.8	1028.9
70°	5815.1	4450.9	2333.9	1367.5	1002.6	828.4	792.2	844.8	904.0	867.8	851.4
72.5°	5236.5	3888.8	1923.0	1157.1	844.8	696.9	680.5	733.1	736.3	742.9	726.5
75°	4132.0	2896.0	1439.8	900.7	683.7	585.1	581.8	572.0	585.1	611.4	591.7
77.5°	2169.6	1446.4	779.1	552.3	496.4	470.1	447.1	443.8	483.2	499.7	479.9
80°	1176.8	811.9	447.1	332.0	302.4	305.7	335.3	328.7	371.5	381.3	364.9
82.5°	512.8	384.6	220.2	200.5	200.5	197.2	207.1	230.1	276.1	276.1	220.2
85°	111.8	95.3	85.5	98.6	111.8	111.8	111.8	111.8	78.9	42.7	29.6
87.5°	36.2	36.2	36.2	39.4	42.7	42.7	36.2	26.3	16.4	3.3	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)