

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: P836473

Luminaire Tested: **ARCH3-190-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836473
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: ARCH3-190-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24667 lumens
Efficiency: N/A
Efficacy: 130.2 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): 189.4
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

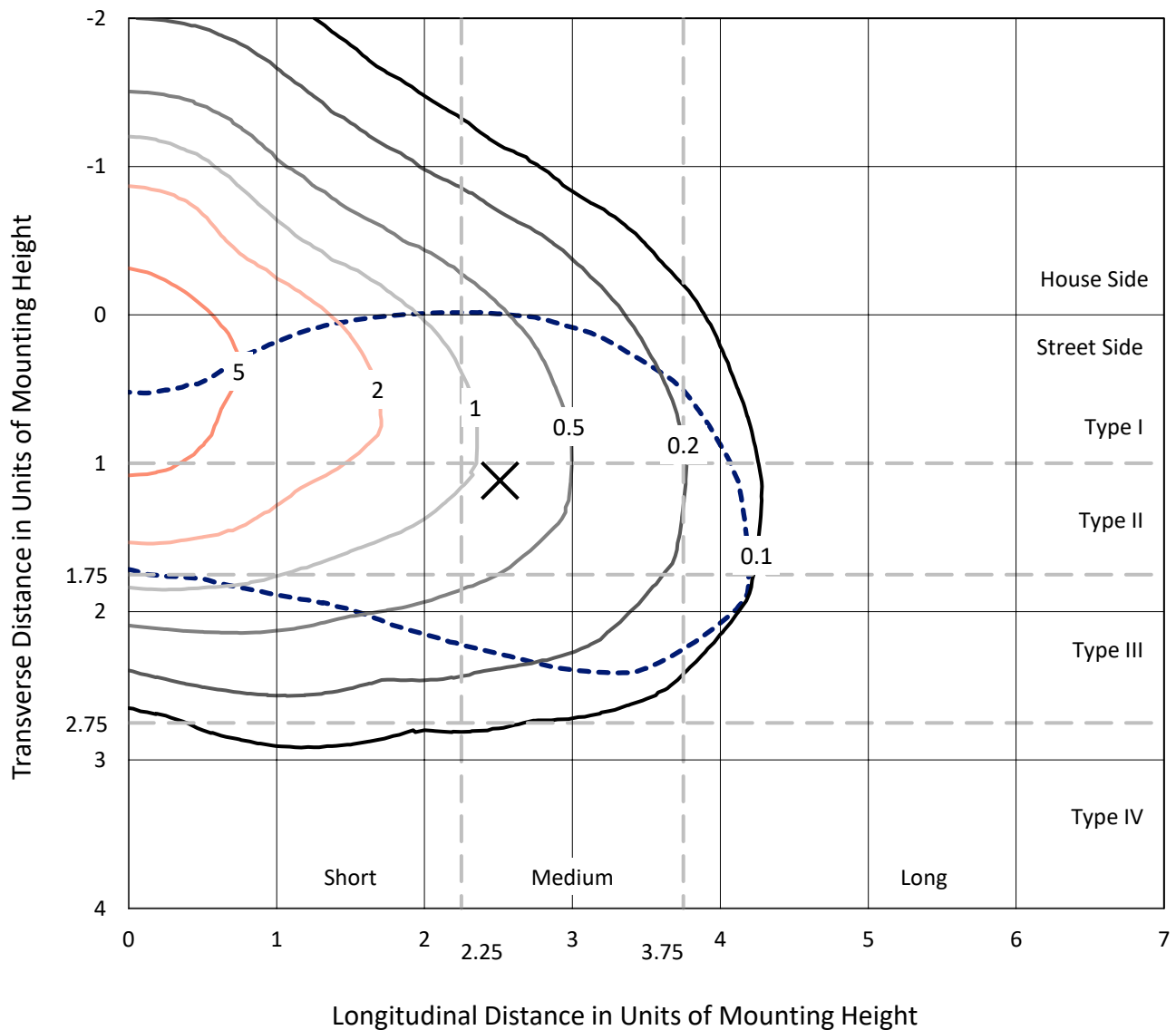


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Iso-Footcandle Lines of Horizontal Illumination

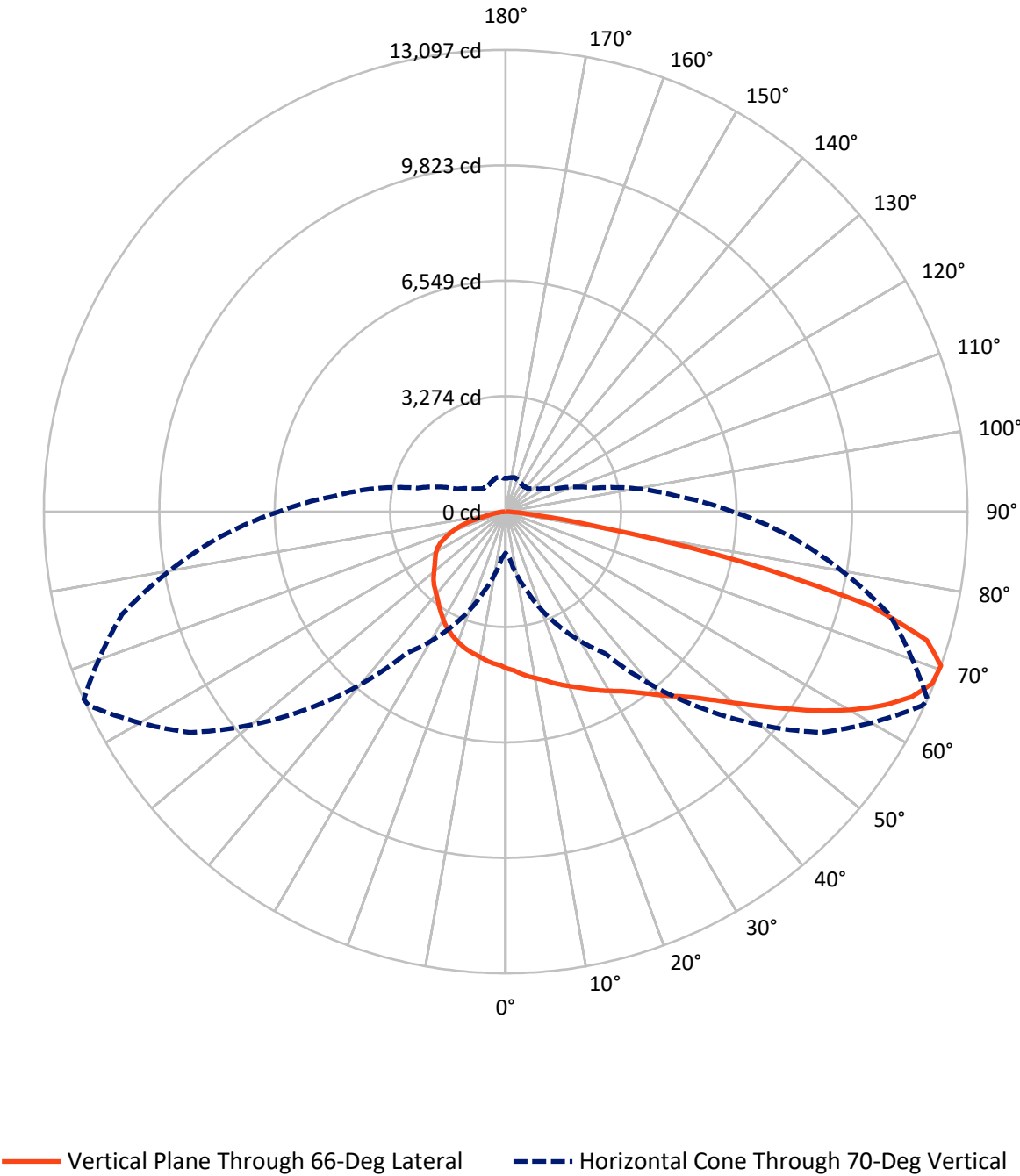
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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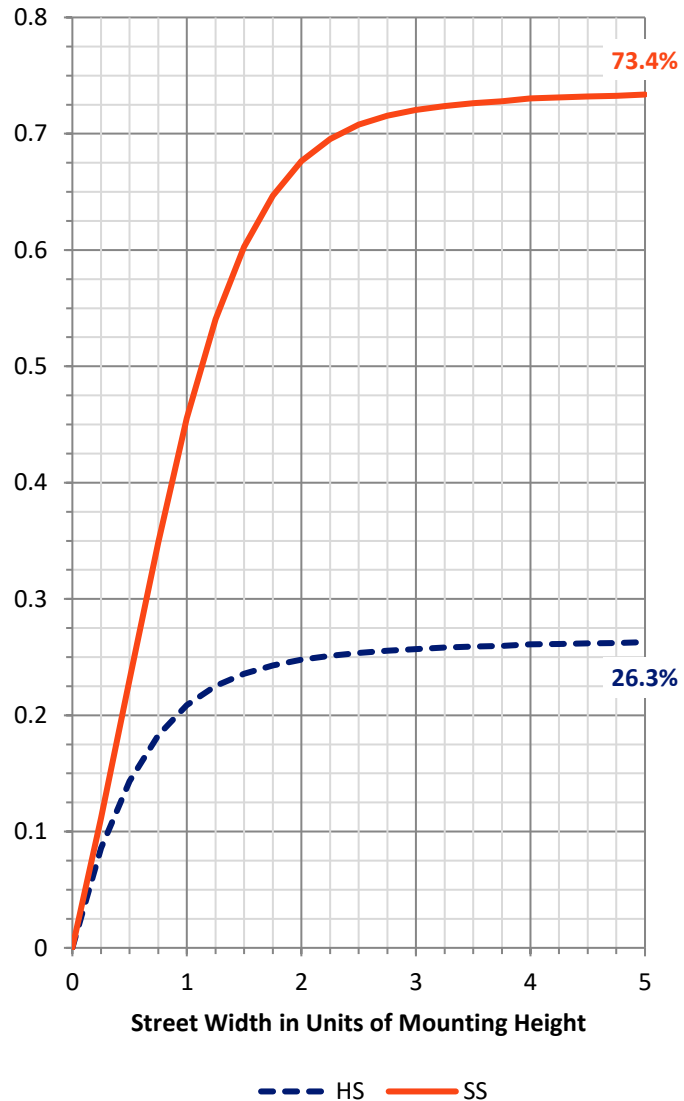
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6536.2	0.0	6536.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	18130.8	0.0	18130.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	24667.0	0.0	24667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.8	1.7
10°-20°	1283.2	5.2
20°-30°	2151.0	8.7
30°-40°	3220.8	13.1
40°-50°	4306.2	17.5
50°-60°	5027.6	20.4
60°-70°	4999.2	20.3
70°-80°	2959.6	12.0
80°-90°	291.7	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°	24667.0	100.0
0°-180°	24667.0	100.0

Coefficient of Utilization



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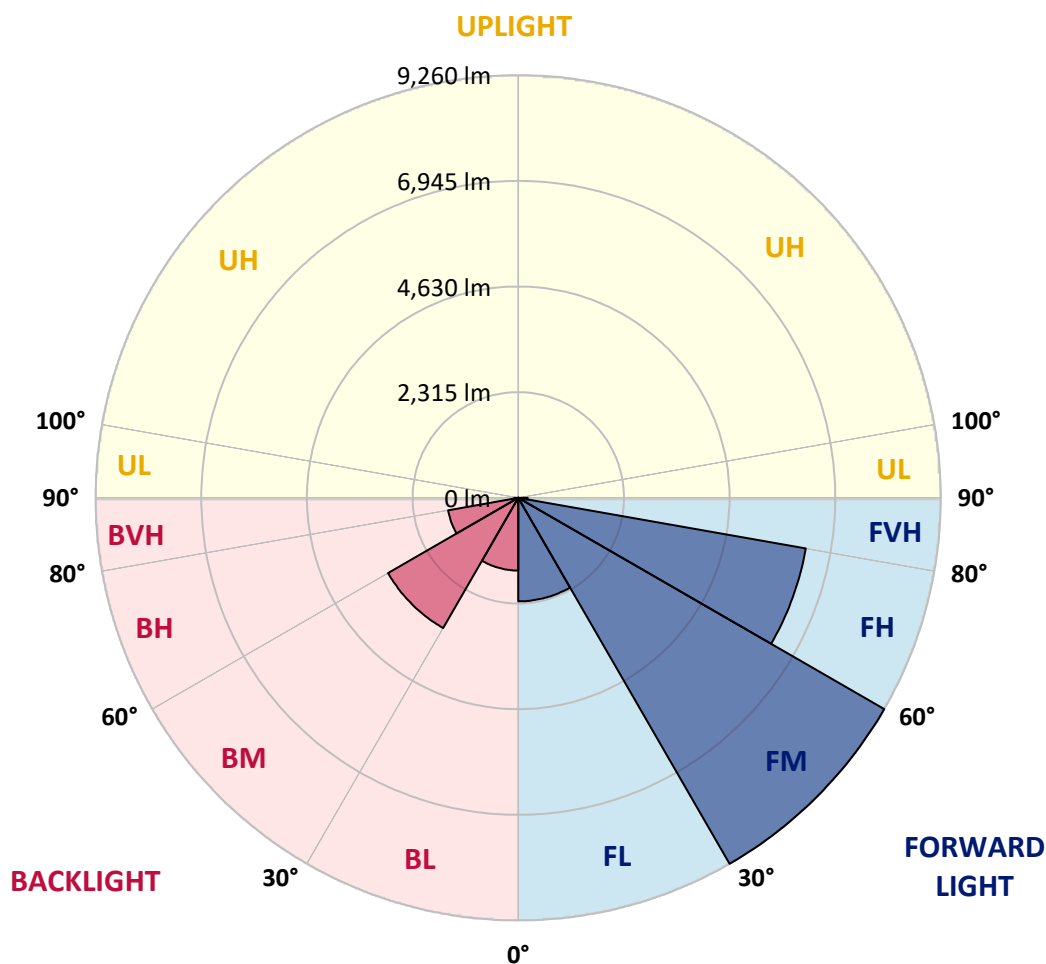
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2268.7	9.2			
FM	(30°-60°)	9259.7	37.5			
FH	(60°-80°)	6397.4	25.9			G3/7500
FVH	(80°-90°)	205.0	0.8			G2/225
BL	(0°-30°)	1593.2	6.5	B3/2500		
BM	(30°-60°)	3294.9	13.4	B3/5000		
BH	(60°-80°)	1561.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	86.7	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°	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8
2.5°	4615.5	4608.2	4604.6	4590.0	4557.3	4571.9	4539.1	4517.3	4513.7	4462.7	4433.6
5°	4804.6	4801.0	4793.7	4771.9	4721.0	4728.3	4673.7	4633.7	4622.8	4542.8	4480.9
7.5°	4964.7	4957.4	4953.8	4924.7	4870.1	4866.5	4801.0	4742.8	4724.6	4615.5	4520.9
10°	5088.3	5077.4	5084.7	5055.6	4997.4	4986.5	4902.8	4826.5	4808.3	4670.1	4539.1
12.5°	5193.8	5186.5	5197.4	5172.0	5124.7	5113.8	5030.1	4931.9	4910.1	4750.1	4579.1
15°	5310.2	5284.7	5306.6	5295.6	5262.9	5259.3	5182.9	5073.8	5044.7	4851.9	4641.0
17.5°	5372.0	5357.5	5382.9	5386.6	5372.0	5397.5	5324.7	5193.8	5168.3	4946.5	4695.5
20°	5415.7	5393.8	5422.9	5444.8	5455.7	5506.6	5448.4	5321.1	5292.0	5037.4	4746.4
22.5°	5564.8	5517.5	5521.1	5535.7	5543.0	5615.7	5579.3	5455.7	5426.6	5150.2	4808.3
25°	5939.4	5844.8	5783.0	5739.4	5688.5	5750.3	5728.5	5608.4	5583.0	5284.7	4884.6
27.5°	6521.4	6401.3	6277.7	6150.4	5950.3	5924.9	5888.5	5779.4	5750.3	5419.3	4961.0
30°	7183.3	7063.3	6917.8	6714.1	6339.5	6143.1	6059.4	5939.4	5906.7	5539.3	5033.8
32.5°	7841.6	7736.1	7590.7	7343.3	6808.7	6408.6	6230.4	6106.7	6074.0	5670.3	5121.1
35°	8354.5	8289.0	8194.4	7885.3	7274.2	6721.4	6477.7	6328.6	6292.2	5877.6	5281.1
37.5°	8769.1	8721.8	8641.8	8318.1	7612.5	7034.2	6761.4	6590.5	6550.4	6103.1	5452.0
40°	9380.1	9256.5	9191.0	8721.8	7907.1	7317.9	7081.5	6903.2	6859.6	6343.1	5590.2
42.5°	9900.2	9809.3	9729.3	9081.9	8187.2	7561.6	7383.3	7219.7	7161.5	6579.5	5739.4
45°	9987.5	10023.9	9983.9	9260.1	8630.9	7801.6	7688.9	7583.4	7528.8	6899.6	5964.9
47.5°	9991.2	9991.2	9754.7	9361.9	9180.1	8070.8	8016.2	8052.6	7994.4	7307.0	6234.0
50°	9729.3	9776.6	9652.9	9387.4	9325.6	8339.9	8416.3	8612.7	8554.5	7739.8	6525.0
52.5°	9187.4	9343.8	9340.1	9347.4	9114.6	8569.0	8838.2	9285.6	9187.4	8227.2	6834.1
55°	8230.8	8543.6	8823.6	9063.7	8932.8	8707.3	9354.7	10002.1	9900.2	8772.7	7146.9
57.5°	7412.4	7612.5	7961.7	8641.8	8718.2	8827.3	9838.4	10751.3	10660.4	9376.5	7474.3
60°	6477.7	6754.1	7103.3	8070.8	8456.3	8983.7	10369.4	11482.4	11395.1	9987.5	7790.7
62.5°	5041.0	5397.5	6095.8	7194.2	8074.4	9081.9	10787.7	12126.1	12086.1	10565.8	8074.4
65°	3513.5	3829.9	4808.3	6117.6	7467.0	9038.2	11122.3	12700.8	12664.4	11038.7	8274.4
67.5°	2051.3	2418.7	3524.4	4924.7	6394.1	8736.4	11231.4	13039.1	13039.1	11326.0	8329.0
70°	1171.2	1342.1	2324.1	3589.8	4902.8	7903.5	10925.9	13035.4	13097.3	11260.5	8103.5
72.5°	818.4	894.7	1564.0	2415.0	3324.3	6394.1	10125.7	12406.2	12489.9	10642.2	7332.4
75°	636.5	691.1	1102.0	1647.6	2095.0	4342.7	8376.3	10460.3	10682.2	9071.0	5928.5
77.5°	483.7	523.7	643.8	1029.3	1342.1	2495.1	5528.4	6859.6	6874.2	5553.9	3178.8
80°	352.8	392.8	429.2	629.2	712.9	1167.5	2087.7	2866.0	2786.0	2687.8	1720.4
82.5°	211.0	251.0	261.9	341.9	349.2	498.3	731.1	923.8	887.5	1182.1	807.4
85°	90.9	127.3	134.6	156.4	149.1	203.7	291.0	243.7	218.2	251.0	174.6
87.5°	21.8	36.4	36.4	40.0	32.7	50.9	54.6	40.0	36.4	43.6	43.6
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°	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8
2.5°	4426.4	4415.5	4419.1	4357.3	4339.1	4320.9	4310.0	4302.7	4295.4	4306.3	4317.3
5°	4459.1	4433.6	4404.5	4313.6	4277.3	4237.2	4208.1	4182.7	4171.8	4171.8	4182.7
7.5°	4484.6	4440.9	4379.1	4259.1	4193.6	4139.0	4091.8	4059.0	4040.8	4040.8	4051.7
10°	4488.2	4426.4	4328.2	4182.7	4095.4	4015.4	3960.8	3924.4	3899.0	3899.0	3906.3
12.5°	4510.0	4426.4	4299.1	4124.5	4015.4	3917.2	3851.7	3797.2	3786.2	3786.2	3793.5
15°	4546.4	4444.6	4280.9	4073.6	3942.6	3829.9	3757.1	3698.9	3677.1	3691.7	3695.3
17.5°	4579.1	4455.5	4248.2	4008.1	3851.7	3728.0	3648.0	3597.1	3568.0	3600.7	3600.7
20°	4601.0	4455.5	4200.9	3924.4	3753.5	3615.3	3538.9	3477.1	3455.3	3495.3	3498.9
22.5°	4633.7	4451.8	4150.0	3840.8	3648.0	3502.5	3426.2	3378.9	3368.0	3411.6	3426.2
25°	4670.1	4459.1	4095.4	3746.2	3531.6	3389.8	3331.6	3309.8	3317.1	3371.6	3389.8
27.5°	4710.1	4473.7	4040.8	3640.8	3404.3	3277.0	3244.3	3255.2	3284.3	3353.4	3375.2
30°	4746.4	4477.3	3964.5	3517.1	3258.9	3138.8	3153.4	3200.7	3244.3	3313.4	3338.9
32.5°	4793.7	4480.9	3884.4	3382.5	3102.5	3015.2	3080.6	3157.0	3200.7	3266.1	3295.2
35°	4910.1	4542.8	3822.6	3251.6	2957.0	2909.7	3018.8	3117.0	3142.5	3200.7	3226.1
37.5°	5044.7	4644.6	3789.9	3117.0	2815.1	2804.2	2942.4	3040.6	3047.9	3084.3	3109.7
40°	5128.3	4688.2	3753.5	3004.3	2687.8	2695.1	2837.0	2913.3	2898.8	2924.2	2942.4
42.5°	5212.0	4702.8	3677.1	2909.7	2567.8	2575.1	2684.2	2738.7	2746.0	2800.6	2826.0
45°	5353.8	4742.8	3593.5	2822.4	2458.7	2433.2	2498.7	2571.4	2666.0	2771.5	2800.6
47.5°	5543.0	4826.5	3506.2	2716.9	2353.2	2269.6	2295.0	2422.3	2520.5	2618.7	2636.9
50°	5735.7	4910.1	3426.2	2589.6	2247.7	2095.0	2105.9	2222.3	2302.3	2378.7	2389.6
52.5°	5924.9	4982.9	3357.1	2469.6	2127.7	1887.7	1931.3	2051.3	2105.9	2142.3	2153.2
55°	6114.0	5044.7	3295.2	2367.8	1989.5	1724.0	1764.0	1876.8	1931.3	1949.5	1956.8
57.5°	6310.4	5117.4	3247.9	2280.5	1833.1	1578.5	1604.0	1684.0	1734.9	1756.7	1749.5
60°	6474.1	5179.3	3222.5	2189.5	1676.7	1443.9	1436.7	1509.4	1582.1	1604.0	1596.7
62.5°	6601.4	5219.3	3182.5	2073.2	1538.5	1309.4	1273.0	1367.6	1443.9	1458.5	1469.4
65°	6670.5	5222.9	3084.3	1924.0	1396.7	1163.9	1138.4	1233.0	1280.3	1294.8	1294.8
67.5°	6659.6	5164.7	2891.5	1724.0	1265.7	1032.9	1011.1	1069.3	1138.4	1149.3	1138.4
70°	6434.1	4924.7	2582.4	1513.0	1109.3	916.6	876.5	934.7	1000.2	960.2	942.0
72.5°	5793.9	4302.7	2127.7	1280.3	934.7	771.1	752.9	811.1	814.7	822.0	803.8
75°	4571.9	3204.3	1593.1	996.6	756.5	647.4	643.8	632.9	647.4	676.5	654.7
77.5°	2400.5	1600.3	862.0	611.0	549.2	520.1	494.6	491.0	534.7	552.8	531.0
80°	1302.1	898.4	494.6	367.3	334.6	338.3	371.0	363.7	411.0	421.9	403.7
82.5°	567.4	425.5	243.7	221.9	221.9	218.2	229.1	254.6	305.5	305.5	243.7
85°	123.7	105.5	94.6	109.1	123.7	123.7	123.7	123.7	87.3	47.3	32.7
87.5°	40.0	40.0	40.0	43.6	47.3	47.3	40.0	29.1	18.2	3.6	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)