

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: P841096

Luminaire Tested: **ARCH4-130-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22077 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

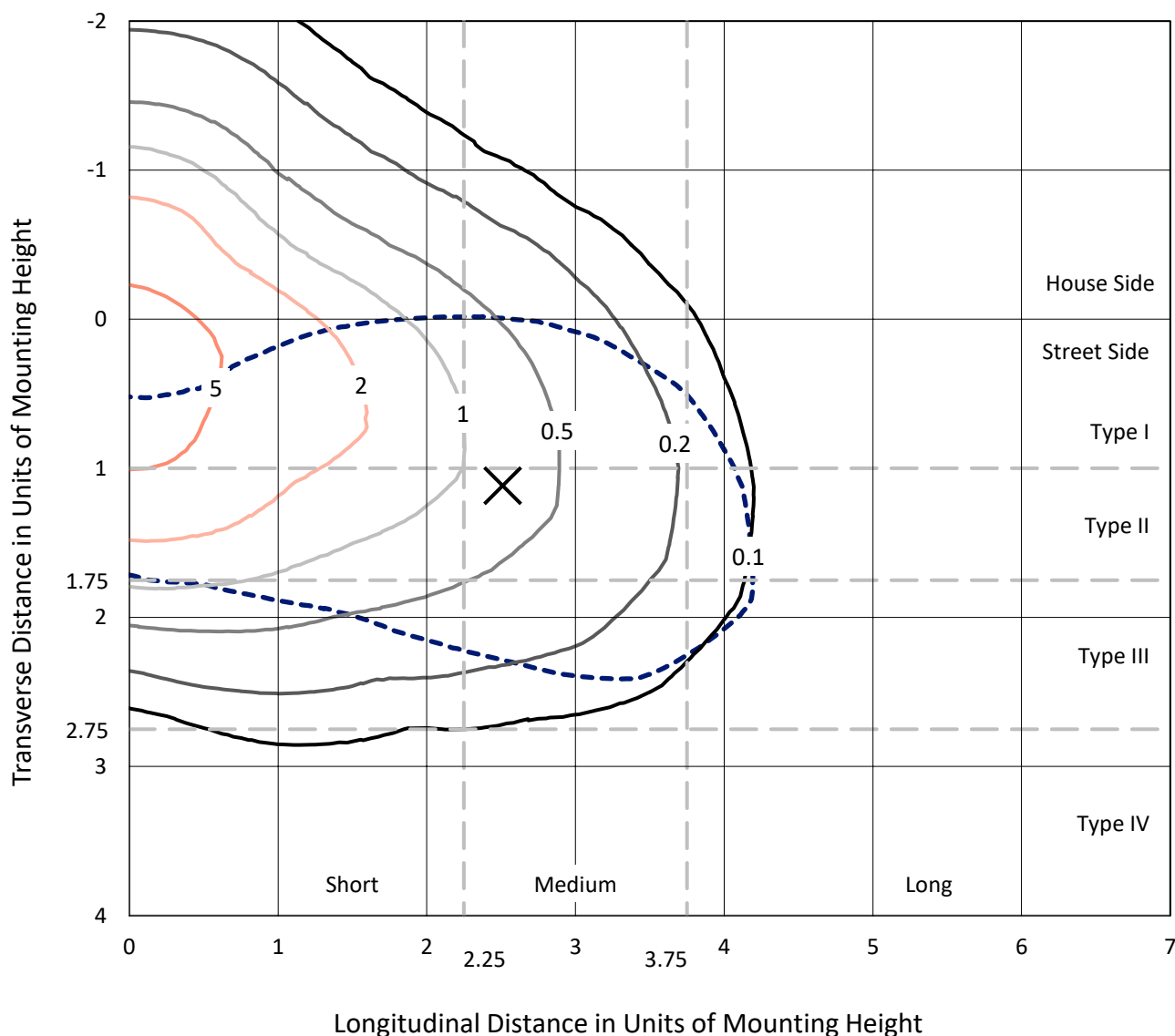
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

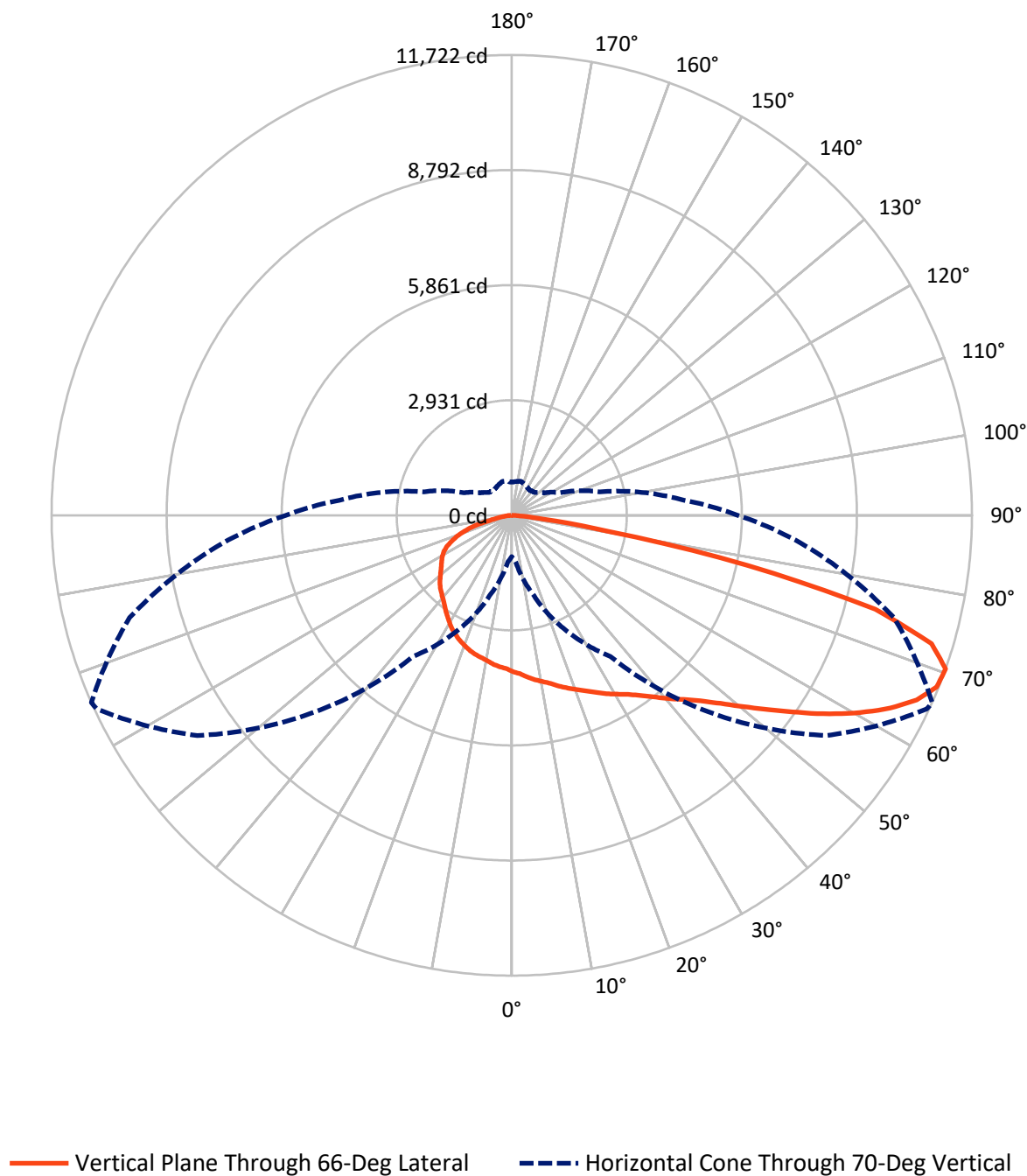
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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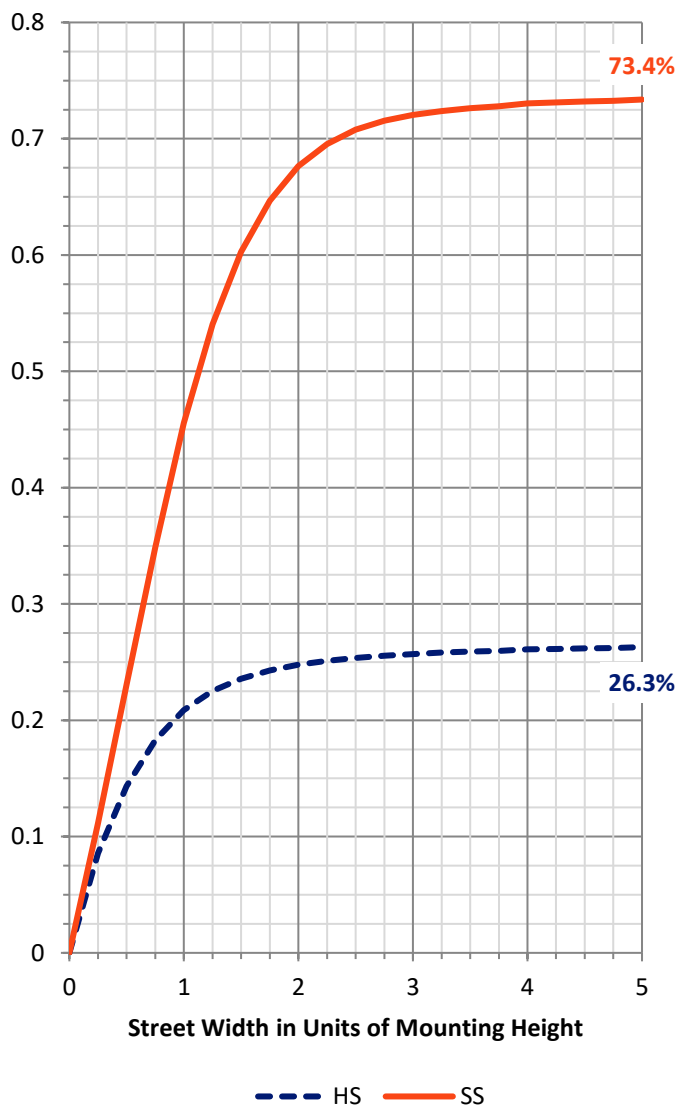
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5849.9	0.0	5849.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	16227.1	0.0	16227.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	22077.0	0.0	22077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.9	1.7
10°-20°	1148.4	5.2
20°-30°	1925.2	8.7
30°-40°	2882.6	13.1
40°-50°	3854.0	17.5
50°-60°	4499.7	20.4
60°-70°	4474.3	20.3
70°-80°	2648.8	12.0
80°-90°	261.1	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°	22077.0	100.0
0°-180°	22077.0	100.0

Coefficient of Utilization



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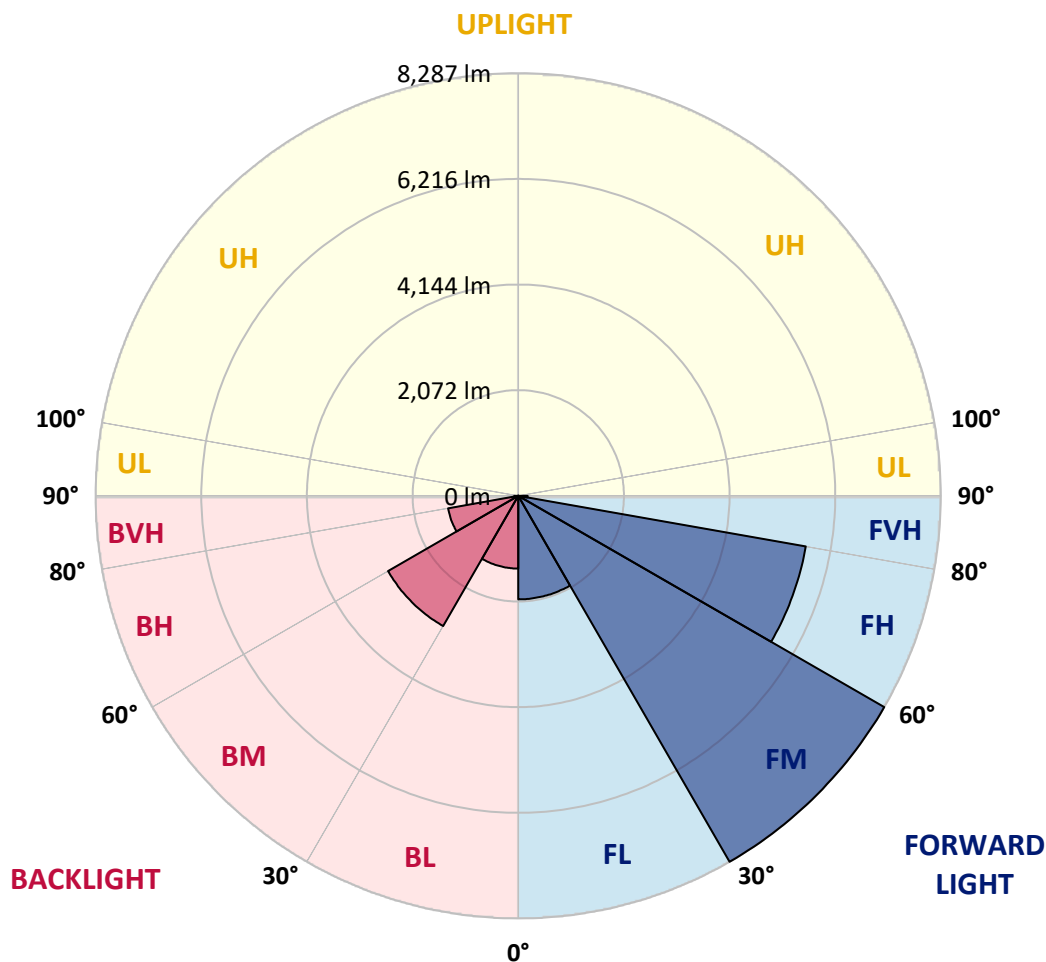
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2030.5	9.2			
FM	(30°-60°)	8287.4	37.5			
FH	(60°-80°)	5725.7	25.9			G3/7500
FVH	(80°-90°)	183.5	0.8			G2/225
BL	(0°-30°)	1426.0	6.5	B3/2500		
BM	(30°-60°)	2949.0	13.4	B3/5000		
BH	(60°-80°)	1397.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	77.6	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°	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4
2.5°	4130.9	4124.4	4121.1	4108.1	4078.8	4091.8	4062.5	4043.0	4039.7	3994.2	3968.1
5°	4300.2	4296.9	4290.4	4270.9	4225.3	4231.8	4183.0	4147.2	4137.4	4065.8	4010.4
7.5°	4443.4	4436.9	4433.6	4407.6	4358.7	4355.5	4296.9	4244.8	4228.5	4130.9	4046.2
10°	4554.1	4544.3	4550.8	4524.8	4472.7	4462.9	4388.0	4319.7	4303.4	4179.7	4062.5
12.5°	4648.5	4642.0	4651.7	4628.9	4586.6	4576.8	4502.0	4414.1	4394.6	4251.3	4098.3
15°	4752.6	4729.8	4749.4	4739.6	4710.3	4707.1	4638.7	4541.0	4515.0	4342.5	4153.7
17.5°	4808.0	4794.9	4817.7	4821.0	4808.0	4830.8	4765.6	4648.5	4625.7	4427.1	4202.5
20°	4847.0	4827.5	4853.5	4873.1	4882.8	4928.4	4876.3	4762.4	4736.4	4508.5	4248.1
22.5°	4980.5	4938.2	4941.4	4954.5	4961.0	5026.1	4993.5	4882.8	4856.8	4609.4	4303.4
25°	5315.8	5231.1	5175.8	5136.7	5091.2	5146.5	5127.0	5019.6	4996.8	4729.8	4371.8
27.5°	5836.6	5729.2	5618.5	5504.6	5325.5	5302.8	5270.2	5172.6	5146.5	4850.3	4440.1
30°	6429.1	6321.6	6191.4	6009.1	5673.9	5498.1	5423.2	5315.8	5286.5	4957.7	4505.2
32.5°	7018.3	6923.9	6793.7	6572.3	6093.8	5735.7	5576.2	5465.5	5436.2	5074.9	4583.4
35°	7477.3	7418.7	7334.0	7057.3	6510.5	6015.7	5797.6	5664.1	5631.5	5260.4	4726.6
37.5°	7848.3	7806.0	7734.4	7444.7	6813.2	6295.6	6051.5	5898.5	5862.7	5462.3	4879.6
40°	8395.2	8284.5	8226.0	7806.0	7076.9	6549.5	6337.9	6178.4	6139.4	5677.1	5003.3
42.5°	8860.7	8779.3	8707.7	8128.3	7327.5	6767.6	6608.1	6461.6	6409.5	5888.7	5136.7
45°	8938.8	8971.4	8935.6	8287.8	7724.6	6982.5	6881.5	6787.1	6738.3	6175.2	5338.6
47.5°	8942.1	8942.1	8730.5	8378.9	8216.2	7223.3	7174.5	7207.1	7155.0	6539.7	5579.5
50°	8707.7	8750.0	8639.4	8401.7	8346.4	7464.2	7532.6	7708.4	7656.3	6927.1	5839.9
52.5°	8222.7	8362.7	8359.4	8365.9	8157.6	7669.3	7910.2	8310.6	8222.7	7363.3	6116.6
55°	7366.6	7646.5	7897.2	8112.0	7994.8	7793.0	8372.4	8951.9	8860.7	7851.6	6396.5
57.5°	6634.1	6813.2	7125.7	7734.4	7802.8	7900.4	8805.4	9622.4	9541.1	8392.0	6689.5
60°	5797.6	6045.0	6357.5	7223.3	7568.4	8040.4	9280.6	10276.7	10198.6	8938.8	6972.7
62.5°	4511.7	4830.8	5455.8	6438.8	7226.6	8128.3	9655.0	10852.9	10817.1	9456.4	7226.6
65°	3144.5	3427.8	4303.4	5475.3	6683.0	8089.2	9954.5	11367.2	11334.7	9879.6	7405.6
67.5°	1835.9	2164.7	3154.3	4407.6	5722.7	7819.1	10052.1	11670.0	11670.0	10136.8	7454.5
70°	1048.2	1201.2	2080.1	3212.9	4388.0	7073.6	9778.7	11666.7	11722.1	10078.2	7252.6
72.5°	732.4	800.8	1399.7	2161.5	2975.3	5722.7	9062.5	11103.6	11178.4	9524.8	6562.5
75°	569.7	618.5	986.3	1474.6	1875.0	3886.7	7496.8	9362.0	9560.6	8118.5	5306.0
77.5°	432.9	468.8	576.2	921.2	1201.2	2233.1	4947.9	6139.4	6152.4	4970.7	2845.1
80°	315.8	351.6	384.1	563.2	638.0	1044.9	1868.5	2565.1	2493.5	2405.6	1539.7
82.5°	188.8	224.6	234.4	306.0	312.5	446.0	654.3	826.8	794.3	1057.9	722.7
85°	81.4	113.9	120.4	140.0	133.5	182.3	260.4	218.1	195.3	224.6	156.3
87.5°	19.5	32.6	32.6	35.8	29.3	45.6	48.8	35.8	32.6	39.1	39.1
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°	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4	3984.4
2.5°	3961.6	3951.8	3955.1	3899.8	3883.5	3867.2	3857.4	3850.9	3844.4	3854.2	3864.0
5°	3990.9	3968.1	3942.1	3860.7	3828.1	3792.3	3766.3	3743.5	3733.7	3733.7	3743.5
7.5°	4013.7	3974.6	3919.3	3811.9	3753.3	3704.4	3662.1	3632.8	3616.6	3616.6	3626.3
10°	4016.9	3961.6	3873.7	3743.5	3665.4	3593.8	3544.9	3512.4	3489.6	3489.6	3496.1
12.5°	4036.5	3961.6	3847.7	3691.4	3593.8	3505.9	3447.3	3398.5	3388.7	3388.7	3395.2
15°	4069.0	3977.9	3831.4	3645.9	3528.7	3427.8	3362.6	3310.6	3291.0	3304.1	3307.3
17.5°	4098.3	3987.7	3802.1	3587.3	3447.3	3336.6	3265.0	3219.4	3193.4	3222.7	3222.7
20°	4117.9	3987.7	3759.8	3512.4	3359.4	3235.7	3167.3	3112.0	3092.5	3128.3	3131.5
22.5°	4147.2	3984.4	3714.2	3437.5	3265.0	3134.8	3066.4	3024.1	3014.3	3053.4	3066.4
25°	4179.7	3990.9	3665.4	3352.9	3160.8	3033.9	2981.8	2962.3	2968.8	3017.6	3033.9
27.5°	4215.5	4003.9	3616.6	3258.5	3046.9	2933.0	2903.7	2913.4	2939.5	3001.3	3020.8
30°	4248.1	4007.2	3548.2	3147.8	2916.7	2809.3	2822.3	2864.6	2903.7	2965.5	2988.3
32.5°	4290.4	4010.4	3476.6	3027.4	2776.7	2698.6	2757.2	2825.5	2864.6	2923.2	2949.2
35°	4394.6	4065.8	3421.2	2910.2	2646.5	2604.2	2701.8	2789.7	2812.5	2864.6	2887.4
37.5°	4515.0	4156.9	3391.9	2789.7	2519.5	2509.8	2633.5	2721.4	2727.9	2760.4	2783.2
40°	4589.9	4196.0	3359.4	2688.8	2405.6	2412.1	2539.1	2607.4	2594.4	2617.2	2633.5
42.5°	4664.7	4209.0	3291.0	2604.2	2298.2	2304.7	2402.4	2451.2	2457.7	2506.5	2529.3
45°	4791.7	4244.8	3216.2	2526.1	2200.5	2177.7	2236.3	2301.4	2386.1	2480.5	2506.5
47.5°	4961.0	4319.7	3138.0	2431.7	2106.1	2031.3	2054.0	2168.0	2255.9	2343.8	2360.0
50°	5133.5	4394.6	3066.4	2317.7	2011.7	1875.0	1884.8	1988.9	2060.6	2128.9	2138.7
52.5°	5302.8	4459.7	3004.6	2210.3	1904.3	1689.5	1728.5	1835.9	1884.8	1917.3	1927.1
55°	5472.0	4515.0	2949.2	2119.2	1780.6	1543.0	1578.8	1679.7	1728.5	1744.8	1751.3
57.5°	5647.8	4580.1	2906.9	2041.0	1640.6	1412.8	1435.6	1507.2	1552.7	1572.3	1565.8
60°	5794.3	4635.4	2884.1	1959.6	1500.7	1292.3	1285.8	1350.9	1416.0	1435.6	1429.0
62.5°	5908.2	4671.2	2848.3	1855.5	1377.0	1171.9	1139.3	1224.0	1292.3	1305.3	1315.1
65°	5970.1	4674.5	2760.4	1722.0	1250.0	1041.7	1018.9	1103.5	1145.8	1158.9	1158.9
67.5°	5960.3	4622.4	2587.9	1543.0	1132.8	924.5	905.0	957.0	1018.9	1028.7	1018.9
70°	5758.5	4407.6	2311.2	1354.2	992.8	820.3	784.5	836.6	895.2	859.4	843.1
72.5°	5185.6	3850.9	1904.3	1145.8	836.6	690.1	673.8	725.9	729.2	735.7	719.4
75°	4091.8	2867.9	1425.8	891.9	677.1	579.4	576.2	566.4	579.4	605.5	585.9
77.5°	2148.4	1432.3	771.5	546.9	491.5	465.5	442.7	439.5	478.5	494.8	475.3
80°	1165.4	804.0	442.7	328.8	299.5	302.7	332.0	325.5	367.8	377.6	361.3
82.5°	507.8	380.9	218.1	198.6	198.6	195.3	205.1	227.9	273.4	273.4	218.1
85°	110.7	94.4	84.6	97.7	110.7	110.7	110.7	110.7	78.1	42.3	29.3
87.5°	35.8	35.8	35.8	39.1	42.3	42.3	35.8	26.0	16.3	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)