

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: P841222

Luminaire Tested: **ARCH4-150-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841222
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: ARCH4-150-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21640 lumens
Efficiency: N/A
Efficacy: 143.5 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): 150.8
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



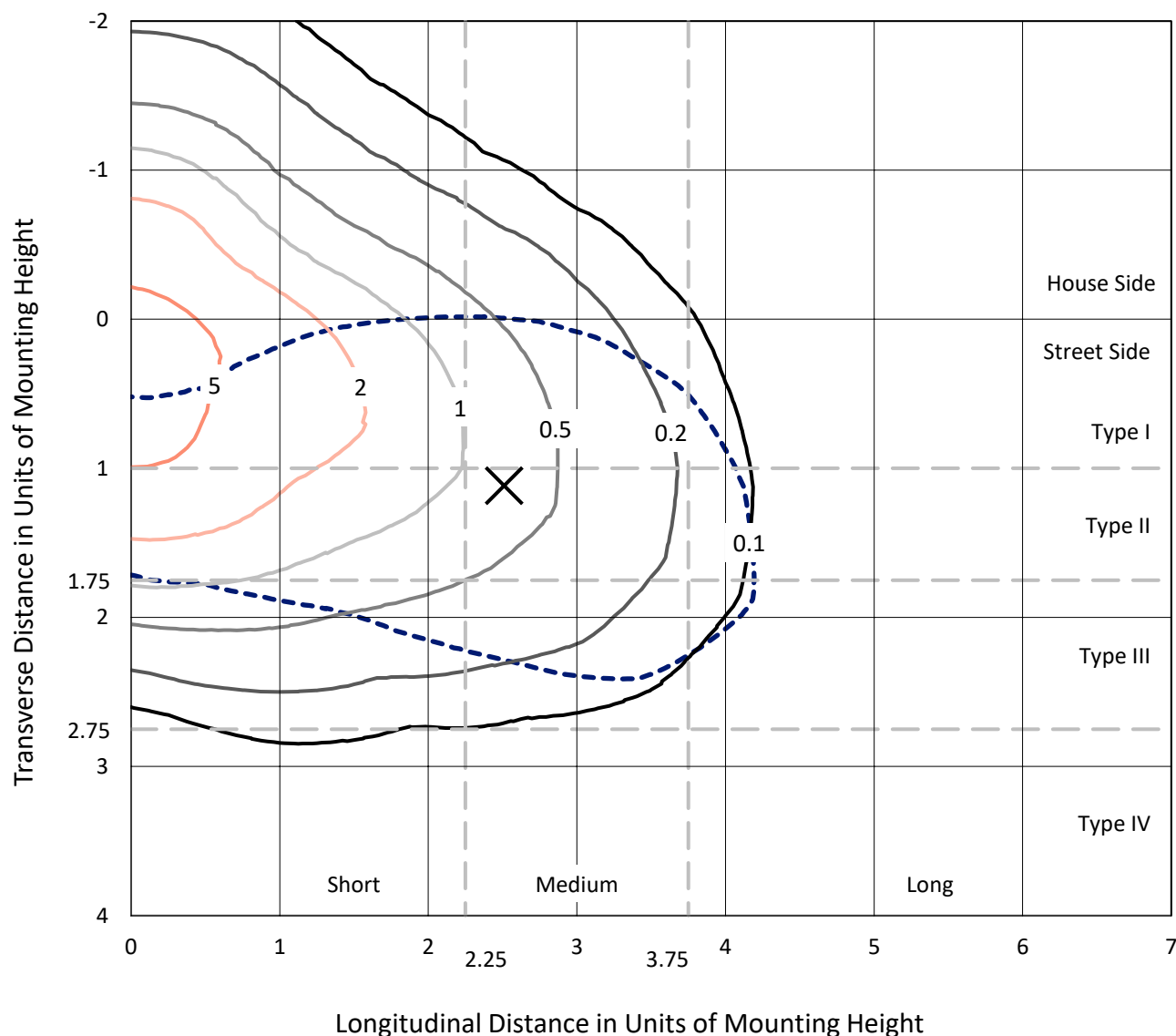
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

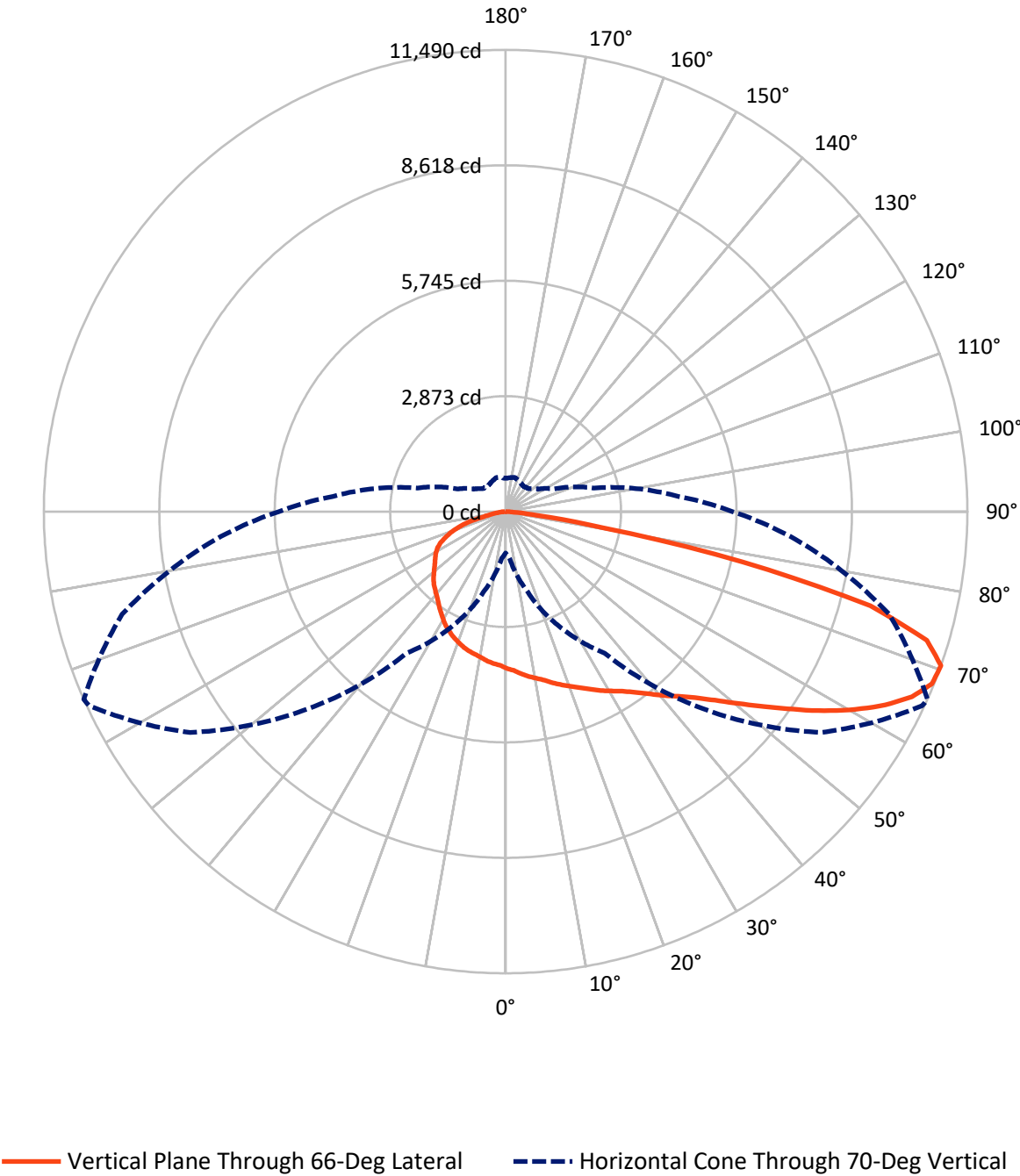


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type III - Medium - N/A

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Luminous Intensity Polar Plot



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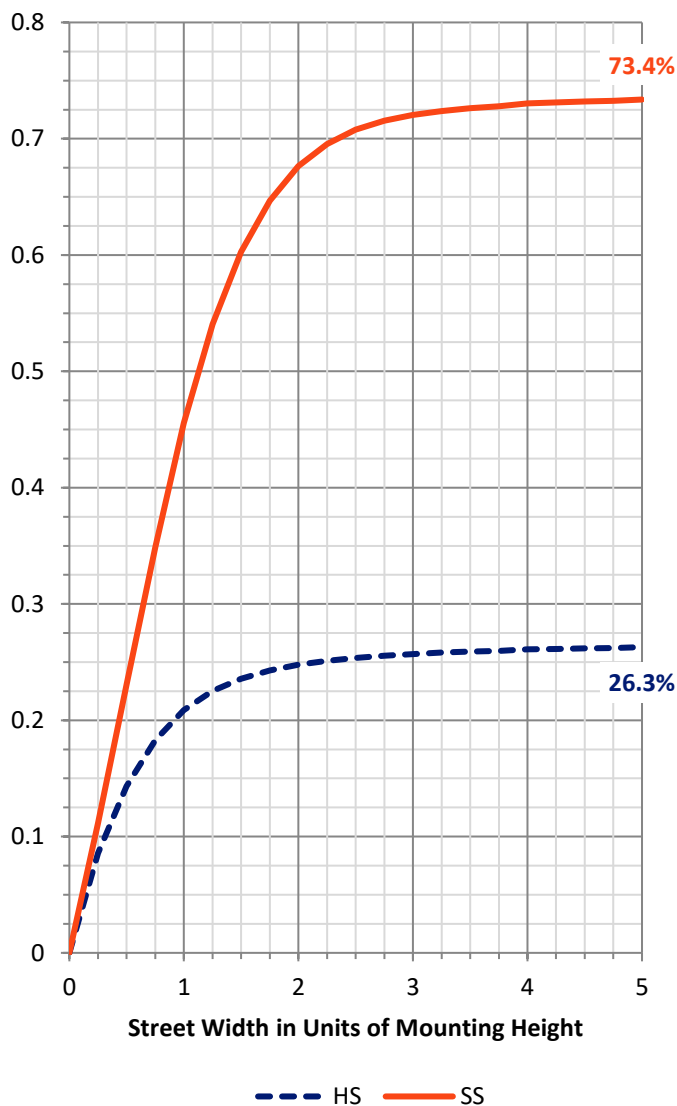
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5734.1	0.0	5734.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	15905.9	0.0	15905.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	21640.0	0.0	21640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.3	1.7
10°-20°	1125.7	5.2
20°-30°	1887.1	8.7
30°-40°	2825.5	13.1
40°-50°	3777.7	17.5
50°-60°	4410.7	20.4
60°-70°	4385.7	20.3
70°-80°	2596.4	12.0
80°-90°	255.9	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°	21640.0	100.0
0°-180°	21640.0	100.0

Coefficient of Utilization



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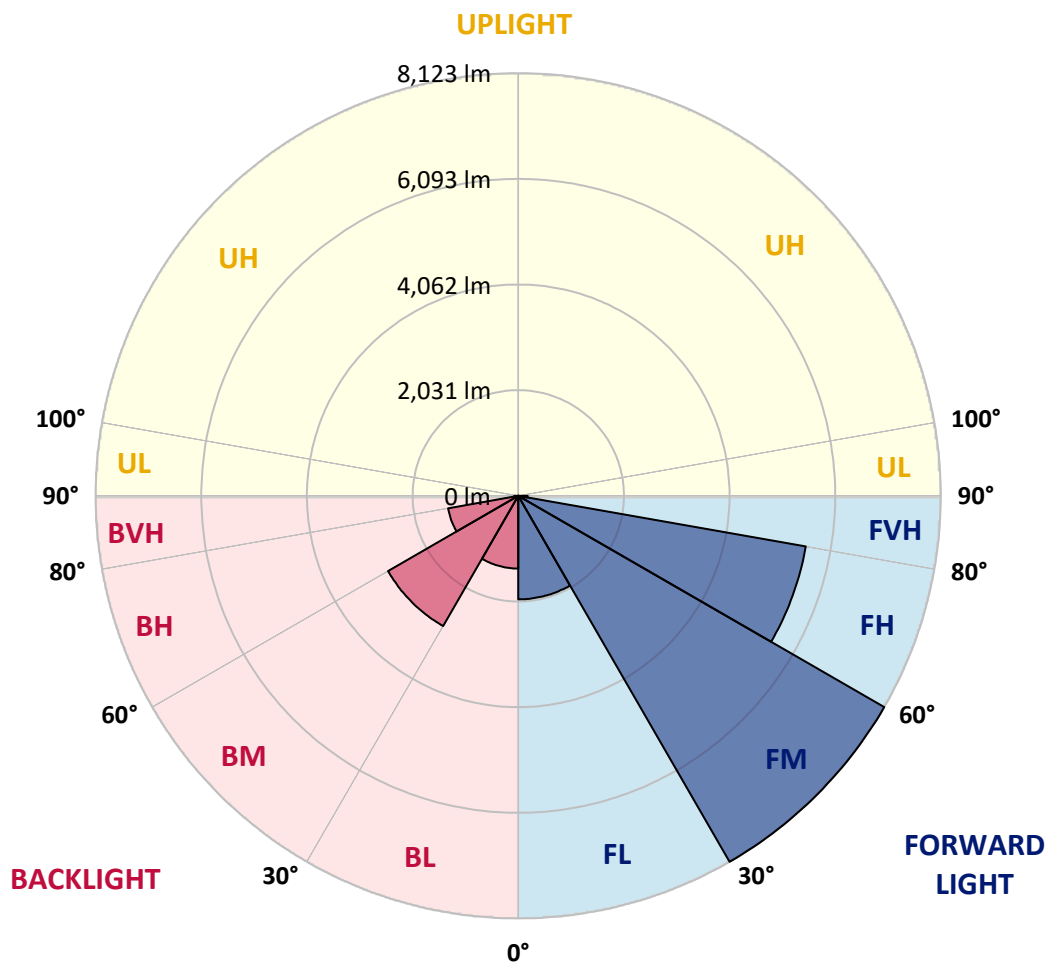
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1990.3	9.2			
FM	(30°-60°)	8123.4	37.5			
FH	(60°-80°)	5612.4	25.9			G3/7500
FVH	(80°-90°)	179.9	0.8			G2/225
BL	(0°-30°)	1397.7	6.5	B3/2500		
BM	(30°-60°)	2890.6	13.4	B3/5000		
BH	(60°-80°)	1369.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	76.1	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°	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5
2.5°	4049.1	4042.7	4039.5	4026.8	3998.1	4010.8	3982.1	3963.0	3959.8	3915.1	3889.6
5°	4215.0	4211.8	4205.5	4186.3	4141.6	4148.0	4100.2	4065.1	4055.5	3985.3	3931.1
7.5°	4355.4	4349.0	4345.9	4320.3	4272.5	4269.3	4211.8	4160.8	4144.8	4049.1	3966.2
10°	4463.9	4454.3	4460.7	4435.2	4384.1	4374.6	4301.2	4234.2	4218.2	4097.0	3982.1
12.5°	4556.4	4550.1	4559.6	4537.3	4495.8	4486.3	4412.9	4326.7	4307.6	4167.2	4017.2
15°	4658.6	4636.2	4655.4	4645.8	4617.1	4613.9	4546.9	4451.2	4425.6	4256.5	4071.4
17.5°	4712.8	4700.0	4722.4	4725.6	4712.8	4735.1	4671.3	4556.4	4534.1	4339.5	4119.3
20°	4751.1	4731.9	4757.5	4776.6	4786.2	4830.9	4779.8	4668.1	4642.6	4419.2	4164.0
22.5°	4881.9	4840.4	4843.6	4856.4	4862.8	4926.6	4894.7	4786.2	4760.7	4518.2	4218.2
25°	5210.6	5127.6	5073.4	5035.1	4990.4	5044.6	5025.5	4920.2	4897.9	4636.2	4285.2
27.5°	5721.1	5615.8	5507.3	5395.6	5220.1	5197.8	5165.9	5070.2	5044.6	4754.3	4352.2
30°	6301.8	6196.5	6068.9	5890.2	5561.5	5389.2	5315.9	5210.6	5181.8	4859.6	4416.1
32.5°	6879.3	6786.8	6659.2	6442.2	5973.2	5622.2	5465.8	5357.3	5328.6	4974.4	4492.6
35°	7329.2	7271.8	7188.9	6917.6	6381.6	5896.6	5682.8	5552.0	5520.1	5156.3	4633.0
37.5°	7693.0	7651.5	7581.3	7297.3	6678.3	6171.0	5931.7	5781.7	5746.6	5354.1	4783.0
40°	8229.0	8120.6	8063.1	7651.5	6936.8	6419.9	6212.5	6056.1	6017.8	5564.7	4904.2
42.5°	8685.3	8605.6	8535.4	7967.4	7182.5	6633.7	6477.3	6333.7	6282.7	5772.1	5035.1
45°	8761.9	8793.8	8758.7	8123.8	7571.7	6844.2	6745.3	6652.8	6604.9	6052.9	5232.9
47.5°	8765.1	8765.1	8557.7	8213.1	8053.6	7080.4	7032.5	7064.4	7013.4	6410.3	5469.0
50°	8535.4	8576.8	8468.4	8235.4	8181.2	7316.5	7383.5	7555.8	7504.7	6790.0	5724.3
52.5°	8059.9	8197.1	8193.9	8200.3	7996.1	7517.5	7753.6	8146.1	8059.9	7217.6	5995.5
55°	7220.8	7495.2	7740.9	7951.4	7836.6	7638.8	8206.7	8774.7	8685.3	7696.2	6269.9
57.5°	6502.8	6678.3	6984.6	7581.3	7648.3	7744.0	8631.1	9432.0	9352.2	8225.9	6557.1
60°	5682.8	5925.3	6231.6	7080.4	7418.6	7881.3	9096.9	10073.3	9996.7	8761.9	6834.7
62.5°	4422.4	4735.1	5347.8	6311.4	7083.6	7967.4	9463.9	10638.1	10603.0	9269.2	7083.6
65°	3082.3	3359.9	4218.2	5366.9	6550.7	7929.1	9757.4	11142.2	11110.3	9684.0	7259.0
67.5°	1799.6	2121.9	3091.9	4320.3	5609.4	7664.3	9853.2	11439.0	11439.0	9936.1	7306.9
70°	1027.4	1177.4	2038.9	3149.3	4301.2	6933.6	9585.1	11435.8	11490.0	9878.7	7109.1
72.5°	717.9	784.9	1372.0	2118.7	2916.4	5609.4	8883.2	10883.8	10957.2	9336.3	6432.6
75°	558.4	606.3	966.8	1445.4	1837.9	3809.8	7348.4	9176.7	9371.4	7957.8	5201.0
77.5°	424.4	459.5	564.8	903.0	1177.4	2188.9	4850.0	6017.8	6030.6	4872.3	2788.8
80°	309.5	344.6	376.5	552.0	625.4	1024.2	1831.5	2514.3	2444.1	2358.0	1509.2
82.5°	185.1	220.2	229.7	299.9	306.3	437.1	641.3	810.5	778.6	1037.0	708.4
85°	79.8	111.7	118.1	137.2	130.8	178.7	255.3	213.8	191.4	220.2	153.2
87.5°	19.1	31.9	31.9	35.1	28.7	44.7	47.9	35.1	31.9	38.3	38.3
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°	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5	3905.5
2.5°	3883.2	3873.6	3876.8	3822.6	3806.6	3790.7	3781.1	3774.7	3768.3	3777.9	3787.5
5°	3911.9	3889.6	3864.0	3784.3	3752.4	3717.3	3691.7	3669.4	3659.8	3659.8	3669.4
7.5°	3934.2	3896.0	3841.7	3736.4	3679.0	3631.1	3589.6	3560.9	3545.0	3545.0	3554.5
10°	3937.4	3883.2	3797.0	3669.4	3592.8	3522.6	3474.8	3442.9	3420.5	3420.5	3426.9
12.5°	3956.6	3883.2	3771.5	3618.4	3522.6	3436.5	3379.0	3331.2	3321.6	3321.6	3328.0
15°	3988.5	3899.1	3755.6	3573.7	3458.8	3359.9	3296.1	3245.0	3225.9	3238.7	3241.8
17.5°	4017.2	3908.7	3726.8	3516.3	3379.0	3270.6	3200.4	3155.7	3130.2	3158.9	3158.9
20°	4036.3	3908.7	3685.4	3442.9	3292.9	3171.6	3104.6	3050.4	3031.3	3066.3	3069.5
22.5°	4065.1	3905.5	3640.7	3369.5	3200.4	3072.7	3005.7	2964.2	2954.7	2993.0	3005.7
25°	4097.0	3911.9	3592.8	3286.5	3098.3	2973.8	2922.8	2903.6	2910.0	2957.9	2973.8
27.5°	4132.1	3924.7	3545.0	3194.0	2986.6	2874.9	2846.2	2855.8	2881.3	2941.9	2961.1
30°	4164.0	3927.9	3478.0	3085.5	2858.9	2753.7	2766.4	2807.9	2846.2	2906.8	2929.1
32.5°	4205.5	3931.1	3407.8	2967.4	2721.7	2645.2	2702.6	2769.6	2807.9	2865.3	2890.9
35°	4307.6	3985.3	3353.5	2852.6	2594.1	2552.6	2648.4	2734.5	2756.8	2807.9	2830.2
37.5°	4425.6	4074.6	3324.8	2734.5	2469.7	2460.1	2581.3	2667.5	2673.9	2705.8	2728.1
40°	4499.0	4112.9	3292.9	2635.6	2358.0	2364.4	2488.8	2555.8	2543.1	2565.4	2581.3
42.5°	4572.4	4125.7	3225.9	2552.6	2252.7	2259.1	2354.8	2402.7	2409.0	2456.9	2479.2
45°	4696.8	4160.8	3152.5	2476.1	2157.0	2134.6	2192.1	2255.9	2338.8	2431.4	2456.9
47.5°	4862.8	4234.2	3075.9	2383.5	2064.4	1991.1	2013.4	2125.1	2211.2	2297.4	2313.3
50°	5031.9	4307.6	3005.7	2271.8	1971.9	1837.9	1847.5	1949.6	2019.8	2086.8	2096.3
52.5°	5197.8	4371.4	2945.1	2166.5	1866.6	1656.0	1694.3	1799.6	1847.5	1879.4	1888.9
55°	5363.7	4425.6	2890.9	2077.2	1745.4	1512.4	1547.5	1646.4	1694.3	1710.3	1716.6
57.5°	5536.0	4489.4	2849.4	2000.6	1608.2	1384.8	1407.1	1477.3	1522.0	1541.2	1534.8
60°	5679.6	4543.7	2827.0	1920.9	1471.0	1266.7	1260.4	1324.2	1388.0	1407.1	1400.8
62.5°	5791.3	4578.8	2791.9	1818.8	1349.7	1148.7	1116.8	1199.7	1266.7	1279.5	1289.1
65°	5851.9	4582.0	2705.8	1687.9	1225.3	1021.1	998.7	1081.7	1123.2	1135.9	1135.9
67.5°	5842.3	4530.9	2536.7	1512.4	1110.4	906.2	887.0	938.1	998.7	1008.3	998.7
70°	5644.5	4320.3	2265.5	1327.4	973.2	804.1	769.0	820.0	877.5	842.4	826.4
72.5°	5082.9	3774.7	1866.6	1123.2	820.0	676.4	660.5	711.5	714.7	721.1	705.2
75°	4010.8	2811.1	1397.6	874.3	663.7	568.0	564.8	555.2	568.0	593.5	574.3
77.5°	2105.9	1403.9	756.2	536.1	481.8	456.3	433.9	430.8	469.0	485.0	465.9
80°	1142.3	788.1	433.9	322.3	293.6	296.7	325.5	319.1	360.6	370.1	354.2
82.5°	497.8	373.3	213.8	194.6	194.6	191.4	201.0	223.4	268.0	268.0	213.8
85°	108.5	92.5	83.0	95.7	108.5	108.5	108.5	108.5	76.6	41.5	28.7
87.5°	35.1	35.1	35.1	38.3	41.5	41.5	35.1	25.5	16.0	3.2	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)