

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: P835893

Luminaire Tested: **ARCH3-110-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17102 lumens
Efficiency: N/A
Efficacy: 152.8 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

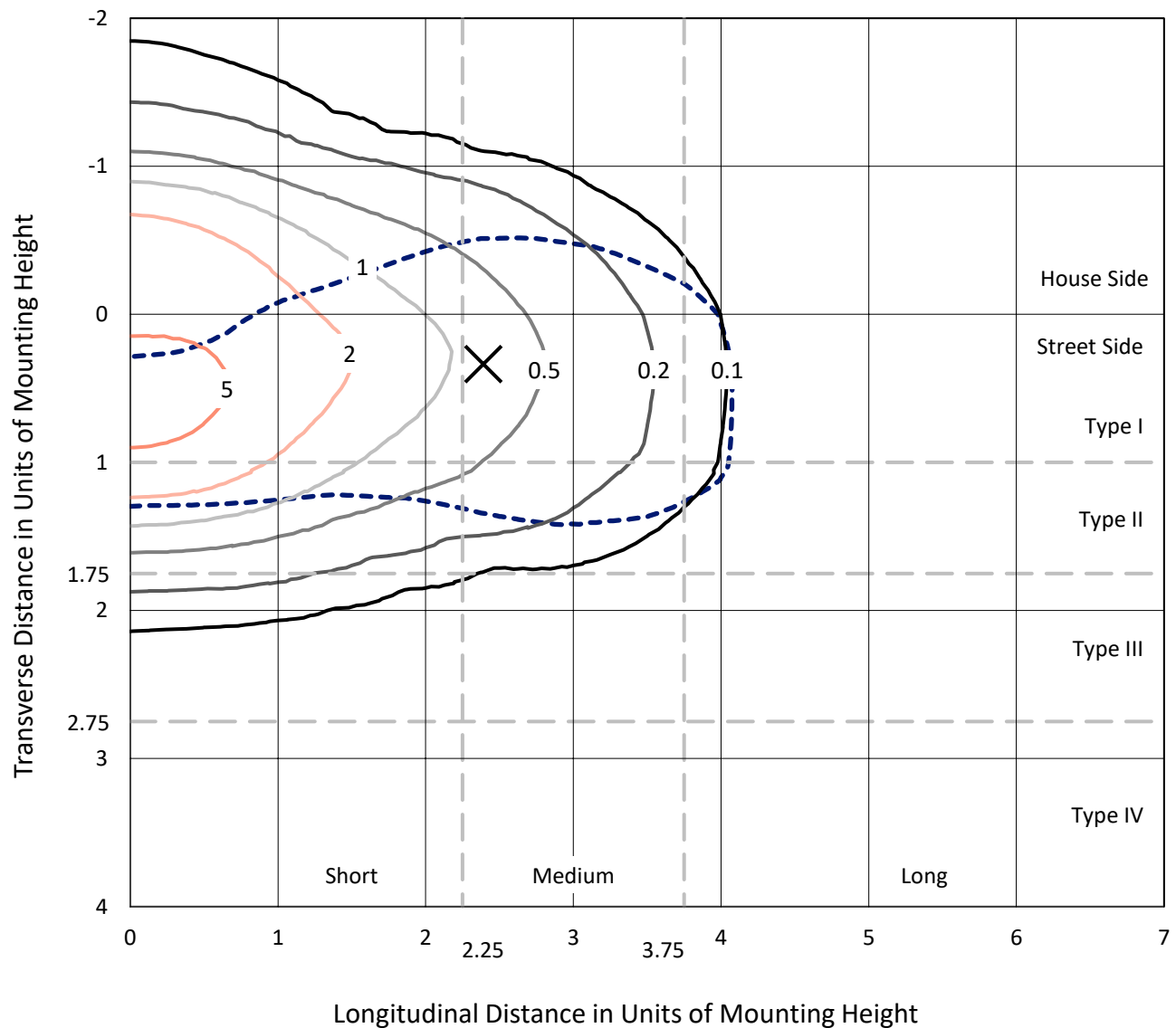
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

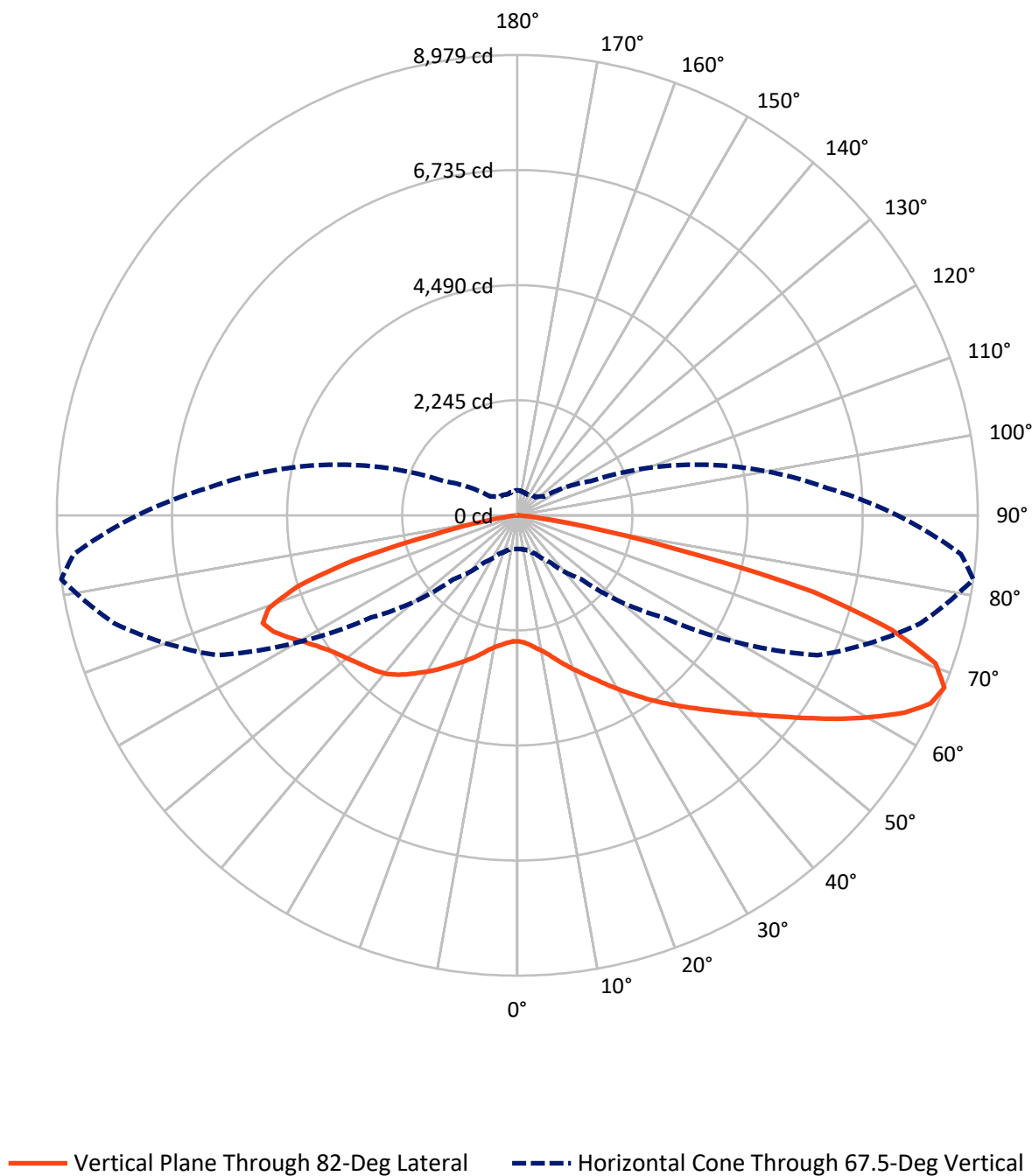
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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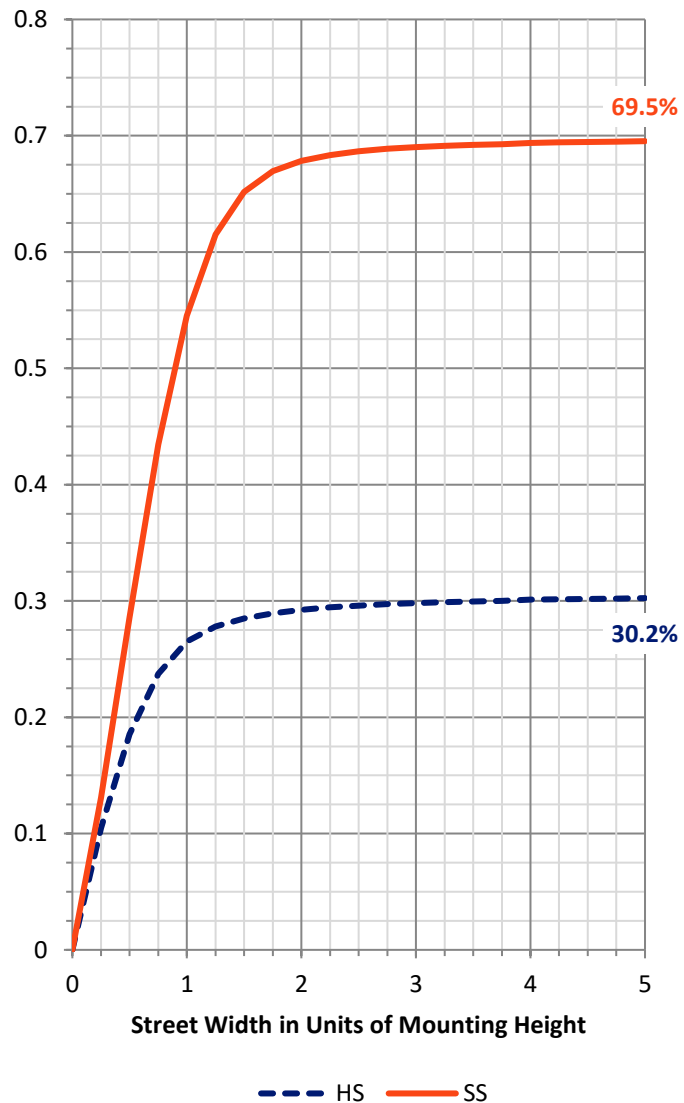
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5208.2	0.0	5208.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	11893.7	0.0	11893.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	17102.0	0.0	17102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.5
10°-20°	915.1	5.4
20°-30°	1839.2	10.8
30°-40°	2889.2	16.9
40°-50°	3519.6	20.6
50°-60°	3325.6	19.4
60°-70°	2746.2	16.1
70°-80°	1495.4	8.7
80°-90°	117.6	0.7
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°	17102.0	100.0
0°-180°	17102.0	100.0

Coefficient of Utilization



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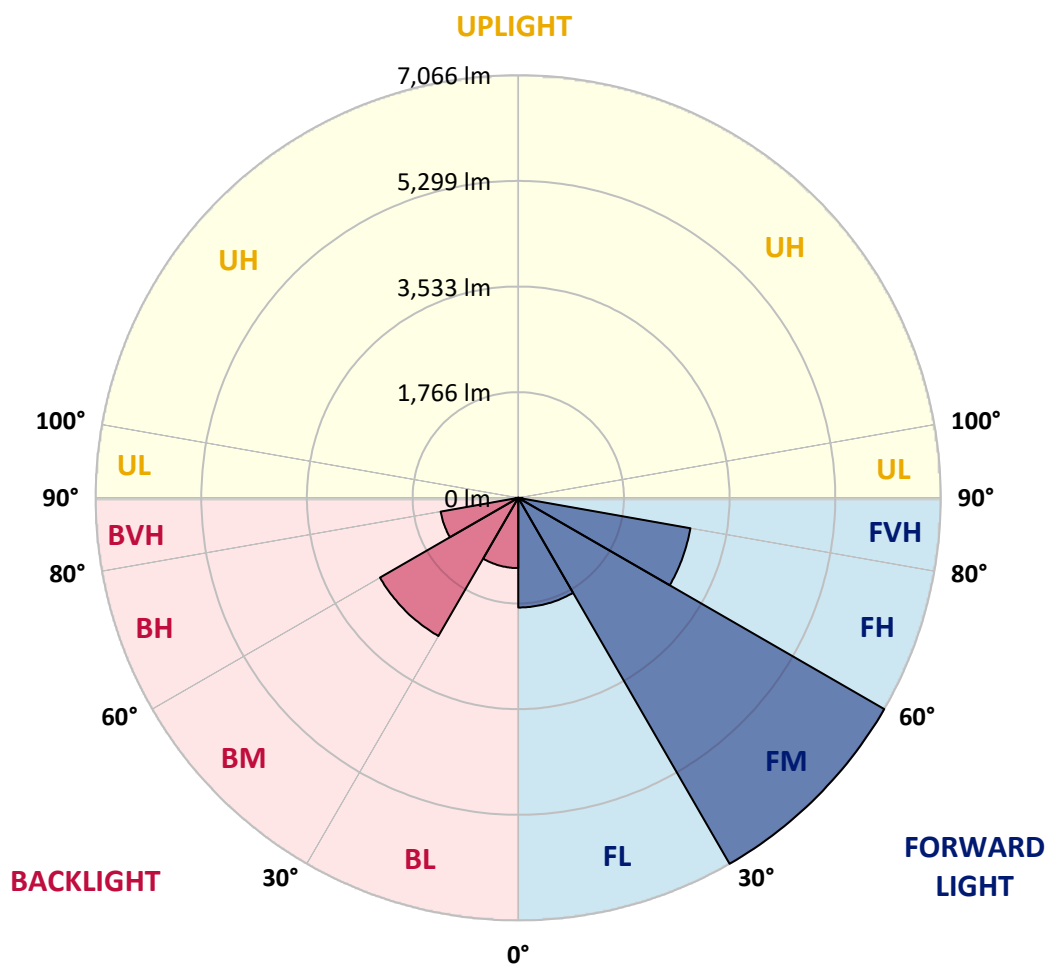
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1834.0	10.7			
FM	(30°-60°)	7065.6	41.3			
FH	(60°-80°)	2923.4	17.1			G2/5000
FVH	(80°-90°)	70.9	0.4			G1/100
BL	(0°-30°)	1174.5	6.9	B3/2500		
BM	(30°-60°)	2668.8	15.6	B3/5000		
BH	(60°-80°)	1318.2	7.7	B3/2500		G3/2500
BVH	(80°-90°)	46.7	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2570.1	2570.1	2590.0	2590.0	2572.6	2545.3	2537.9	2508.1	2480.8	2480.8	2483.2
5°	2816.0	2813.5	2828.4	2808.5	2766.3	2711.7	2674.4	2609.9	2555.2	2537.9	2535.4
7.5°	3116.5	3114.0	3121.4	3089.1	3009.7	2920.3	2845.8	2741.5	2652.1	2614.8	2604.9
10°	3451.7	3449.2	3441.8	3387.1	3280.4	3141.3	3029.5	2885.5	2751.4	2691.8	2679.4
12.5°	3836.6	3831.6	3814.3	3734.8	3588.3	3409.5	3248.1	3061.8	2883.0	2801.1	2773.8
15°	4266.2	4258.7	4226.5	4129.6	3933.4	3707.5	3498.9	3260.5	3042.0	2935.2	2897.9
17.5°	4718.1	4718.1	4668.5	4524.5	4305.9	4025.3	3767.1	3464.1	3208.3	3076.7	3032.0
20°	5177.5	5175.1	5113.0	4939.2	4680.9	4358.1	4030.3	3697.5	3379.7	3220.8	3166.1
22.5°	5661.8	5656.8	5579.8	5381.2	5073.3	4708.2	4325.8	3928.5	3568.4	3377.2	3307.7
25°	6218.0	6210.6	6116.2	5872.9	5507.8	5095.6	4658.6	4199.2	3784.5	3551.0	3469.1
27.5°	6809.0	6799.1	6687.4	6404.3	6004.5	5507.8	5026.1	4512.0	4022.8	3744.7	3652.8
30°	7335.5	7328.0	7206.4	6915.8	6456.4	5917.6	5376.2	4824.9	4273.6	3950.8	3836.6
32.5°	7732.8	7732.8	7623.5	7338.0	6861.2	6309.9	5728.8	5120.4	4534.4	4171.8	4037.7
35°	7973.7	7981.1	7886.8	7658.3	7208.8	6679.9	6093.9	5468.1	4812.5	4407.7	4263.7
37.5°	8008.4	8033.3	7978.6	7824.7	7449.7	6987.8	6451.4	5803.3	5100.6	4646.1	4484.7
40°	7847.0	7864.4	7866.9	7807.3	7549.0	7208.8	6766.8	6158.4	5406.0	4896.9	4710.7
42.5°	7524.2	7536.6	7559.0	7576.4	7477.0	7305.7	7007.7	6488.7	5731.3	5152.7	4934.2
45°	7107.0	7104.5	7141.8	7216.3	7211.3	7251.0	7141.8	6789.2	6069.0	5443.3	5182.5
47.5°	6483.7	6471.3	6602.9	6771.8	6856.2	7042.5	7144.3	7025.1	6436.5	5763.6	5465.6
50°	5507.8	5495.4	5783.5	6180.8	6429.1	6712.2	7007.7	7166.6	6821.4	6123.7	5773.5
52.5°	4320.8	4308.4	4673.5	5368.8	5910.1	6322.3	6732.1	7198.9	7186.5	6525.9	6121.2
55°	3213.3	3203.4	3558.5	4310.9	5187.5	5870.4	6394.3	7114.5	7529.2	6987.8	6543.3
57.5°	2264.7	2259.7	2567.7	3191.0	4258.7	5319.1	6069.0	6950.6	7844.5	7489.4	7020.1
60°	1589.3	1581.8	1805.3	2287.1	3220.8	4487.2	5746.2	6732.1	8080.5	7983.6	7526.7
62.5°	1070.3	1065.3	1224.2	1626.5	2287.1	3454.2	5257.0	6585.5	8214.5	8480.3	8038.2
65°	812.0	809.5	881.5	1102.6	1619.1	2480.8	4479.8	6568.2	8231.9	8852.7	8472.8
67.5°	655.6	658.1	697.8	824.4	1119.9	1763.1	3474.0	6458.9	8140.0	8979.4	8683.9
70°	536.4	536.4	553.8	638.2	826.9	1189.5	2426.1	5962.2	7884.3	8649.1	8433.1
72.5°	409.7	412.2	466.8	516.5	623.3	834.4	1554.5	4934.2	7280.8	7626.0	7462.1
75°	325.3	322.8	355.1	424.6	484.2	596.0	953.6	3538.6	6195.7	5959.8	5855.5
77.5°	233.4	230.9	255.8	315.4	367.5	422.2	568.7	1785.4	3369.8	3096.6	3019.6
80°	158.9	154.0	176.3	218.5	243.4	248.3	278.1	685.4	1470.1	1385.6	1368.3
82.5°	81.9	81.9	94.4	124.2	126.6	129.1	124.2	221.0	486.7	454.4	434.6
85°	32.3	32.3	34.8	42.2	42.2	44.7	44.7	57.1	52.1	49.7	47.2
87.5°	2.5	2.5	5.0	5.0	7.4	7.4	7.4	9.9	12.4	12.4	12.4
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°	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4	2458.4
2.5°	2478.3	2468.3	2436.1	2428.6	2423.6	2416.2	2418.7	2401.3	2393.8	2396.3	2386.4
5°	2523.0	2505.6	2465.9	2448.5	2443.5	2436.1	2443.5	2431.1	2418.7	2423.6	2418.7
7.5°	2585.0	2560.2	2510.6	2493.2	2490.7	2483.2	2493.2	2483.2	2473.3	2478.3	2468.3
10°	2649.6	2617.3	2562.7	2545.3	2545.3	2542.8	2552.8	2537.9	2527.9	2530.4	2525.5
12.5°	2744.0	2701.8	2642.2	2627.3	2619.8	2627.3	2629.7	2609.9	2592.5	2595.0	2587.5
15°	2858.2	2811.0	2746.5	2724.1	2719.1	2716.7	2706.7	2681.9	2659.5	2657.1	2649.6
17.5°	2982.4	2922.8	2845.8	2823.4	2801.1	2793.6	2768.8	2736.5	2701.8	2701.8	2691.8
20°	3101.6	3034.5	2942.6	2910.4	2878.1	2848.3	2806.1	2753.9	2709.2	2701.8	2691.8
22.5°	3230.7	3151.2	3044.4	2997.3	2940.2	2880.6	2808.5	2739.0	2681.9	2669.5	2662.0
25°	3374.7	3275.4	3148.7	3079.2	2987.3	2895.5	2788.7	2699.3	2632.2	2612.4	2607.4
27.5°	3533.6	3414.4	3260.5	3158.7	3024.6	2880.6	2744.0	2637.2	2555.2	2530.4	2523.0
30°	3695.1	3553.5	3362.3	3213.3	3024.6	2833.4	2662.0	2537.9	2443.5	2408.7	2403.8
32.5°	3856.5	3697.5	3454.2	3243.1	2994.8	2753.9	2555.2	2408.7	2302.0	2259.7	2269.7
35°	4050.2	3856.5	3538.6	3255.5	2945.1	2657.1	2433.6	2262.2	2153.0	2115.7	2123.2
37.5°	4251.3	4015.4	3605.7	3245.6	2875.6	2547.8	2297.0	2130.6	1994.0	1929.5	1936.9
40°	4425.1	4159.4	3652.8	3210.8	2786.2	2423.6	2162.9	1944.4	1755.6	1693.6	1686.1
42.5°	4589.0	4266.2	3677.7	3158.7	2684.4	2279.6	1971.7	1691.1	1502.4	1425.4	1427.9
45°	4760.4	4370.5	3667.7	3089.1	2557.7	2110.8	1725.8	1442.8	1276.4	1206.9	1209.3
47.5°	4956.5	4482.2	3657.8	3014.6	2403.8	1892.2	1489.9	1224.2	1080.2	1030.5	1025.6
50°	5165.1	4606.4	3645.4	2922.8	2232.4	1648.9	1256.5	1020.6	898.9	866.6	859.2
52.5°	5401.0	4740.5	3637.9	2813.5	2026.3	1390.6	1047.9	841.8	759.9	737.5	735.0
55°	5684.1	4896.9	3647.9	2681.9	1778.0	1147.3	871.6	725.1	670.5	658.1	655.6
57.5°	6029.3	5098.1	3677.7	2527.9	1517.3	936.2	742.5	653.1	618.3	608.4	608.4
60°	6404.3	5326.5	3732.3	2354.1	1256.5	772.3	658.1	596.0	581.1	593.5	593.5
62.5°	6809.0	5594.7	3829.1	2143.0	1013.2	653.1	591.0	548.8	538.9	563.7	566.2
65°	7184.0	5855.5	3891.2	1889.7	804.6	566.2	538.9	501.6	506.6	531.4	528.9
67.5°	7414.9	6071.5	3804.3	1571.9	638.2	501.6	484.2	451.9	464.4	484.2	486.7
70°	7273.4	5949.8	3374.7	1187.0	499.1	437.0	424.6	404.8	414.7	439.5	449.5
72.5°	6580.6	5329.0	2624.8	802.1	402.3	367.5	372.5	362.6	375.0	397.3	419.7
75°	5341.4	4027.8	1760.6	514.0	317.9	312.9	320.3	312.9	317.9	340.2	352.6
77.5°	2788.7	1964.2	876.6	320.3	235.9	243.4	255.8	258.3	273.2	278.1	283.1
80°	1301.2	884.0	365.0	178.8	156.4	171.3	196.2	198.7	203.6	211.1	213.6
82.5°	424.6	265.7	168.9	96.8	89.4	96.8	126.6	151.5	154.0	168.9	168.9
85°	44.7	27.3	37.2	39.7	34.8	42.2	57.1	54.6	24.8	14.9	14.9
87.5°	12.4	9.9	12.4	12.4	9.9	9.9	7.4	2.5	0.0	0.0	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)