

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: P835965

Luminaire Tested: **ARCH3-120-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835965
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: ARCH3-120-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

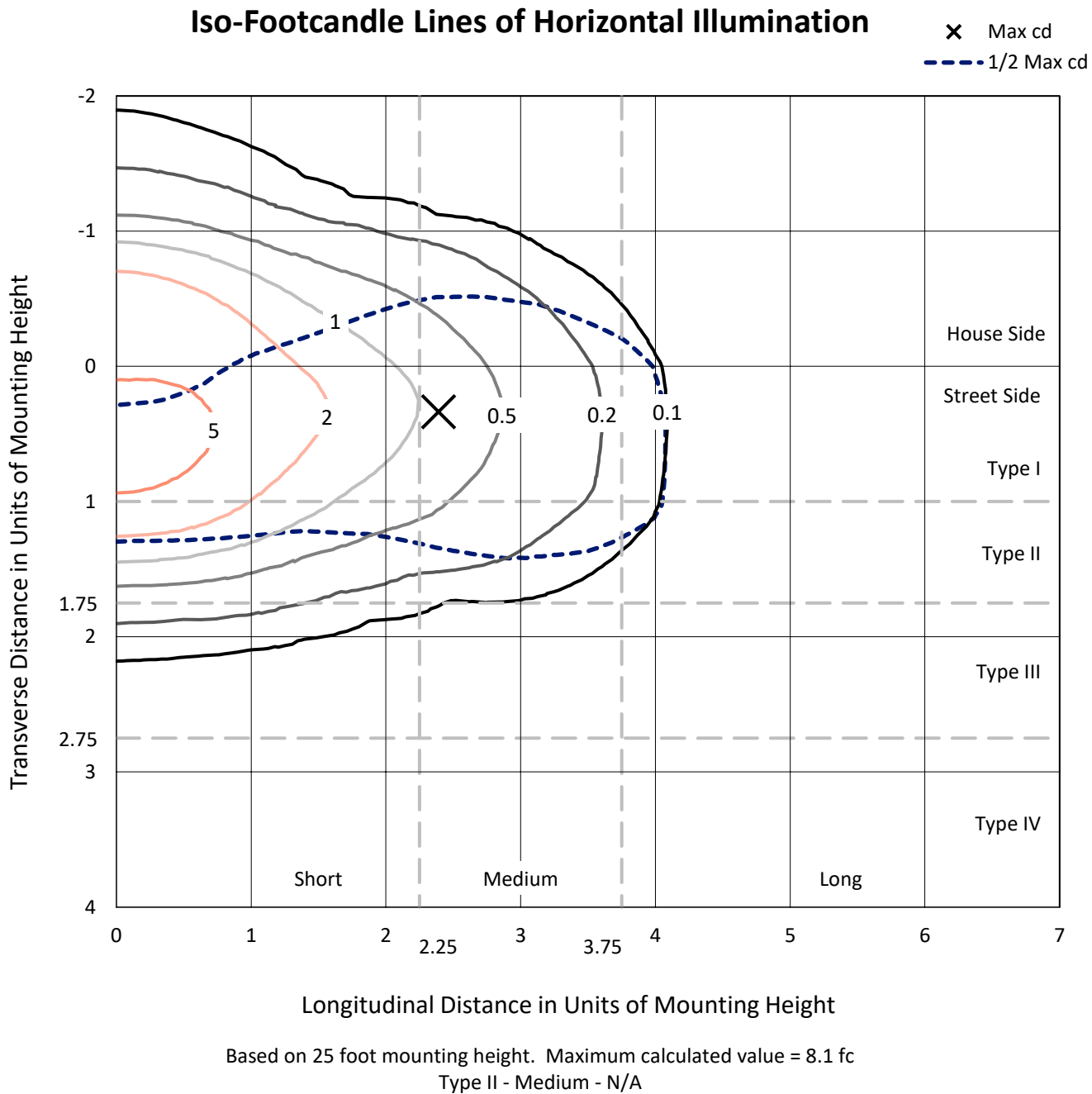
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18438 lumens
Efficiency: N/A
Efficacy: 150.3 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): 122.7
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

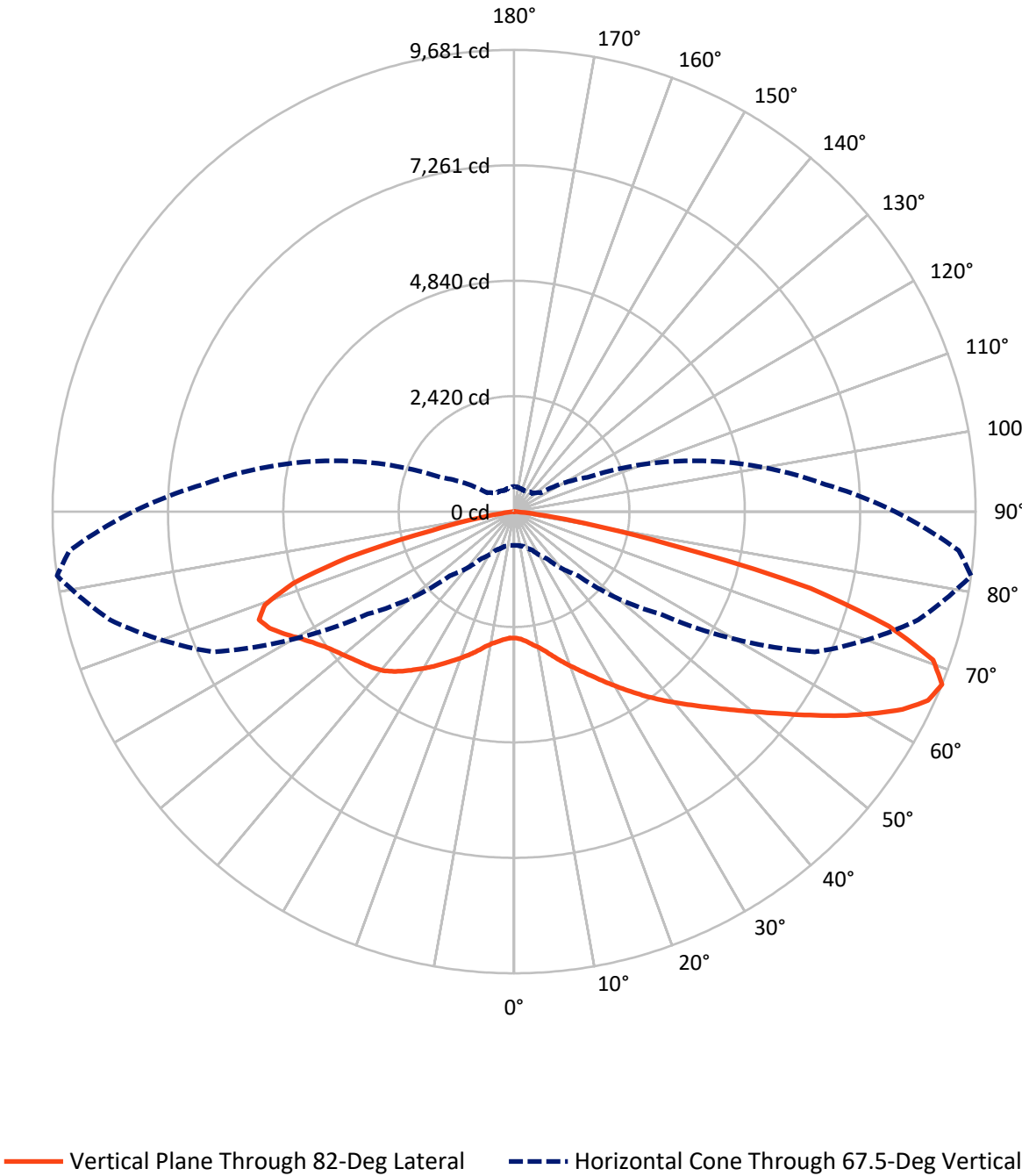


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Luminous Intensity Polar Plot



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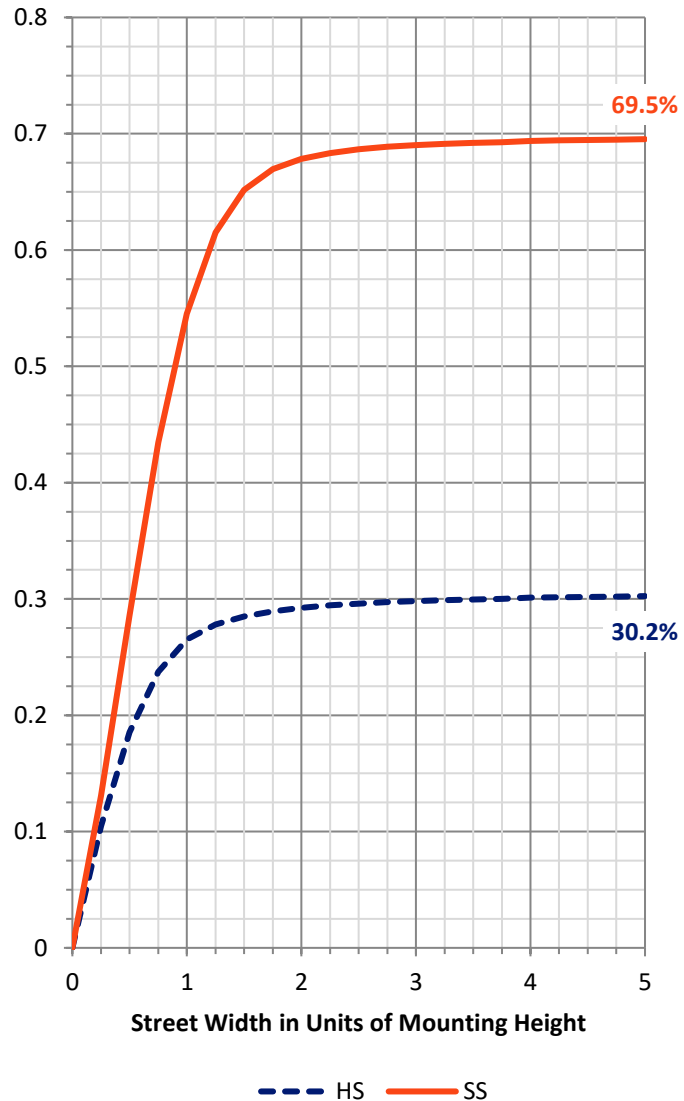
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5615.1	0.0	5615.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	12822.9	0.0	12822.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	18438.0	0.0	18438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.5
10°-20°	986.6	5.4
20°-30°	1982.9	10.8
30°-40°	3114.9	16.9
40°-50°	3794.6	20.6
50°-60°	3585.4	19.4
60°-70°	2960.7	16.1
70°-80°	1612.2	8.7
80°-90°	126.8	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°	18438.0	100.0
0°-180°	18438.0	100.0

Coefficient of Utilization



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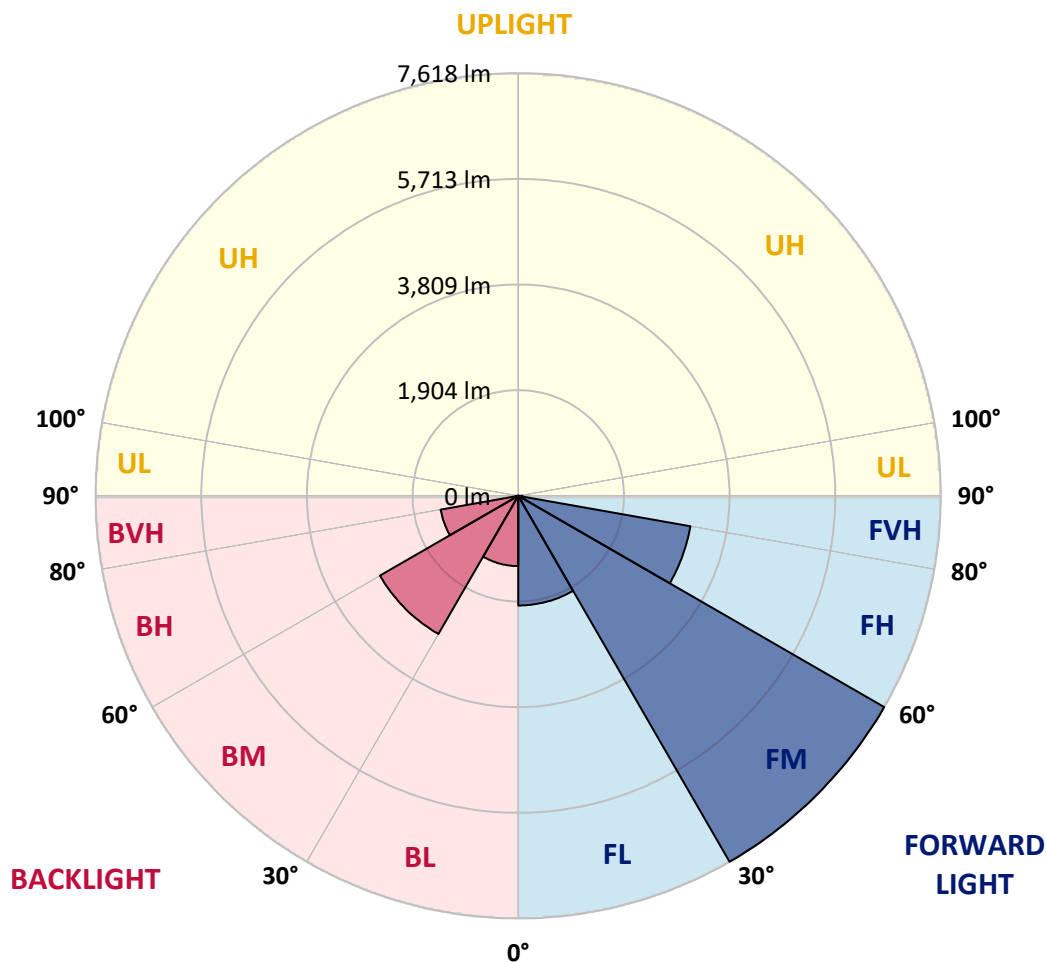
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.2	10.7			
FM	(30°-60°)	7617.5	41.3			
FH	(60°-80°)	3151.7	17.1			G2/5000
FVH	(80°-90°)	76.4	0.4			G1/100
BL	(0°-30°)	1266.3	6.9	B3/2500		
BM	(30°-60°)	2877.3	15.6	B3/5000		
BH	(60°-80°)	1421.2	7.7	B3/2500		G3/2500
BVH	(80°-90°)	50.4	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°	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5
2.5°	2770.9	2770.9	2792.3	2792.3	2773.6	2744.2	2736.1	2704.0	2674.5	2674.5	2677.2
5°	3036.0	3033.3	3049.4	3027.9	2982.4	2923.5	2883.4	2813.8	2754.9	2736.1	2733.4
7.5°	3359.9	3357.2	3365.3	3330.5	3244.8	3148.4	3068.1	2955.7	2859.3	2819.1	2808.4
10°	3721.3	3718.7	3710.6	3651.7	3536.6	3386.7	3266.2	3110.9	2966.4	2902.1	2888.7
12.5°	4136.3	4131.0	4112.2	4026.5	3868.6	3675.8	3501.8	3301.0	3108.3	3019.9	2990.5
15°	4599.5	4591.4	4556.6	4452.2	4240.7	3997.1	3772.2	3515.2	3279.6	3164.5	3124.3
17.5°	5086.7	5086.7	5033.2	4877.9	4642.3	4339.8	4061.4	3734.7	3459.0	3317.1	3268.9
20°	5582.0	5579.3	5512.4	5325.0	5046.6	4698.5	4345.1	3986.4	3643.7	3472.4	3413.5
22.5°	6104.1	6098.7	6015.7	5801.5	5469.6	5076.0	4663.7	4235.4	3847.2	3641.0	3566.1
25°	6703.8	6695.7	6594.0	6331.6	5938.1	5493.7	5022.5	4527.2	4080.1	3828.4	3740.1
27.5°	7341.0	7330.2	7209.8	6904.6	6473.5	5938.1	5418.7	4864.5	4337.1	4037.3	3938.2
30°	7908.5	7900.5	7769.3	7456.1	6960.8	6379.8	5796.2	5201.8	4607.5	4259.5	4136.3
32.5°	8336.9	8336.9	8219.1	7911.2	7397.2	6802.8	6176.4	5520.4	4888.6	4497.7	4353.2
35°	8596.6	8604.6	8502.9	8256.6	7772.0	7201.7	6569.9	5895.2	5188.5	4752.1	4596.8
37.5°	8634.1	8660.8	8601.9	8435.9	8031.7	7533.7	6955.4	6256.7	5499.0	5009.1	4835.1
40°	8460.0	8478.8	8481.4	8417.2	8138.8	7772.0	7295.4	6639.5	5828.3	5279.5	5078.7
42.5°	8112.0	8125.4	8149.5	8168.2	8061.1	7876.4	7555.1	6995.6	6179.0	5555.2	5319.6
45°	7662.2	7659.5	7699.7	7780.0	7774.7	7817.5	7699.7	7319.5	6543.1	5868.5	5587.4
47.5°	6990.2	6976.8	7118.7	7300.8	7391.8	7592.6	7702.4	7573.9	6939.4	6213.8	5892.6
50°	5938.1	5924.7	6235.3	6663.6	6931.3	7236.5	7555.1	7726.5	7354.3	6602.0	6224.5
52.5°	4658.4	4645.0	5038.5	5788.2	6371.8	6816.2	7258.0	7761.3	7747.9	7035.7	6599.4
55°	3464.3	3453.6	3836.5	4647.7	5592.7	6329.0	6893.9	7670.3	8117.3	7533.7	7054.5
57.5°	2441.6	2436.3	2768.3	3440.2	4591.4	5734.6	6543.1	7493.6	8457.4	8074.5	7568.5
60°	1713.4	1705.4	1946.3	2465.7	3472.4	4837.7	6195.1	7258.0	8711.7	8607.3	8114.7
62.5°	1153.9	1148.5	1319.9	1753.6	2465.7	3724.0	5667.7	7100.0	8856.3	9142.7	8666.2
65°	875.5	872.8	950.4	1188.7	1745.6	2674.5	4829.7	7081.3	8875.0	9544.3	9134.7
67.5°	706.8	709.5	752.3	888.8	1207.4	1900.8	3745.4	6963.5	8775.9	9680.8	9362.3
70°	578.3	578.3	597.0	688.0	891.5	1282.4	2615.6	6428.0	8500.2	9324.8	9091.9
72.5°	441.7	444.4	503.3	556.9	672.0	899.5	1675.9	5319.6	7849.6	8221.8	8045.1
75°	350.7	348.0	382.8	457.8	522.1	642.5	1028.1	3815.0	6679.7	6425.3	6312.9
77.5°	251.7	249.0	275.8	340.0	396.2	455.1	613.1	1924.9	3633.0	3338.5	3255.5
80°	171.3	166.0	190.1	235.6	262.4	267.7	299.8	738.9	1584.9	1493.9	1475.2
82.5°	88.3	88.3	101.7	133.9	136.5	139.2	133.9	238.3	524.7	489.9	468.5
85°	34.8	34.8	37.5	45.5	45.5	48.2	48.2	61.6	56.2	53.5	50.9
87.5°	2.7	2.7	5.4	5.4	8.0	8.0	8.0	10.7	13.4	13.4	13.4
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°	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5
2.5°	2671.9	2661.2	2626.4	2618.3	2613.0	2604.9	2607.6	2588.9	2580.8	2583.5	2572.8
5°	2720.1	2701.3	2658.5	2639.7	2634.4	2626.4	2634.4	2621.0	2607.6	2613.0	2607.6
7.5°	2787.0	2760.2	2706.7	2687.9	2685.3	2677.2	2687.9	2677.2	2666.5	2671.9	2661.2
10°	2856.6	2821.8	2762.9	2744.2	2744.2	2741.5	2752.2	2736.1	2725.4	2728.1	2722.7
12.5°	2958.3	2912.8	2848.6	2832.5	2824.5	2832.5	2835.2	2813.8	2795.0	2797.7	2789.7
15°	3081.5	3030.6	2961.0	2936.9	2931.6	2928.9	2918.2	2891.4	2867.3	2864.6	2856.6
17.5°	3215.3	3151.1	3068.1	3044.0	3019.9	3011.9	2985.1	2950.3	2912.8	2912.8	2902.1
20°	3343.9	3271.6	3172.5	3137.7	3102.9	3070.8	3025.3	2969.0	2920.9	2912.8	2902.1
22.5°	3483.1	3397.4	3282.3	3231.4	3169.8	3105.6	3027.9	2953.0	2891.4	2878.0	2870.0
25°	3638.3	3531.3	3394.7	3319.8	3220.7	3121.6	3006.5	2910.1	2837.9	2816.4	2811.1
27.5°	3809.7	3681.2	3515.2	3405.4	3260.9	3105.6	2958.3	2843.2	2754.9	2728.1	2720.1
30°	3983.7	3831.1	3625.0	3464.3	3260.9	3054.7	2870.0	2736.1	2634.4	2596.9	2591.6
32.5°	4157.7	3986.4	3724.0	3496.5	3228.7	2969.0	2754.9	2596.9	2481.8	2436.3	2447.0
35°	4366.6	4157.7	3815.0	3509.8	3175.2	2864.6	2623.7	2439.0	2321.2	2281.0	2289.0
37.5°	4583.4	4329.1	3887.3	3499.1	3100.2	2746.8	2476.4	2297.1	2149.8	2080.2	2088.2
40°	4770.8	4484.4	3938.2	3461.7	3003.8	2613.0	2331.9	2096.3	1892.8	1825.9	1817.8
42.5°	4947.5	4599.5	3965.0	3405.4	2894.1	2457.7	2125.7	1823.2	1619.7	1536.7	1539.4
45°	5132.2	4711.9	3954.3	3330.5	2757.5	2275.6	1860.7	1555.5	1376.1	1301.1	1303.8
47.5°	5343.7	4832.4	3943.6	3250.2	2591.6	2040.0	1606.3	1319.9	1164.6	1111.0	1105.7
50°	5568.6	4966.3	3930.2	3151.1	2406.8	1777.7	1354.7	1100.3	969.2	934.4	926.3
52.5°	5823.0	5110.8	3922.1	3033.3	2184.6	1499.2	1129.8	907.6	819.2	795.1	792.5
55°	6128.2	5279.5	3932.8	2891.4	1916.9	1236.9	939.7	781.7	722.9	709.5	706.8
57.5°	6500.3	5496.3	3965.0	2725.4	1635.8	1009.3	800.5	704.1	666.6	655.9	655.9
60°	6904.6	5742.6	4023.9	2538.0	1354.7	832.6	709.5	642.5	626.5	639.9	639.9
62.5°	7341.0	6031.8	4128.3	2310.4	1092.3	704.1	637.2	591.7	581.0	607.7	610.4
65°	7745.2	6312.9	4195.2	2037.4	867.4	610.4	581.0	540.8	546.2	572.9	570.2
67.5°	7994.2	6545.8	4101.5	1694.7	688.0	540.8	522.1	487.3	500.6	522.1	524.7
70°	7841.6	6414.6	3638.3	1279.7	538.1	471.2	457.8	436.4	447.1	473.9	484.6
72.5°	7094.6	5745.3	2829.8	864.7	433.7	396.2	401.6	390.9	404.3	428.4	452.5
75°	5758.7	4342.5	1898.2	554.2	342.7	337.3	345.4	337.3	342.7	366.8	380.2
77.5°	3006.5	2117.7	945.1	345.4	254.3	262.4	275.8	278.4	294.5	299.8	305.2
80°	1402.9	953.1	393.6	192.8	168.7	184.7	211.5	214.2	219.5	227.6	230.2
82.5°	457.8	286.5	182.1	104.4	96.4	104.4	136.5	163.3	166.0	182.1	182.1
85°	48.2	29.4	40.2	42.8	37.5	45.5	61.6	58.9	26.8	16.1	16.1
87.5°	13.4	10.7	13.4	13.4	10.7	10.7	8.0	2.7	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)