

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: P836903

Luminaire Tested: **ARCH3-90-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

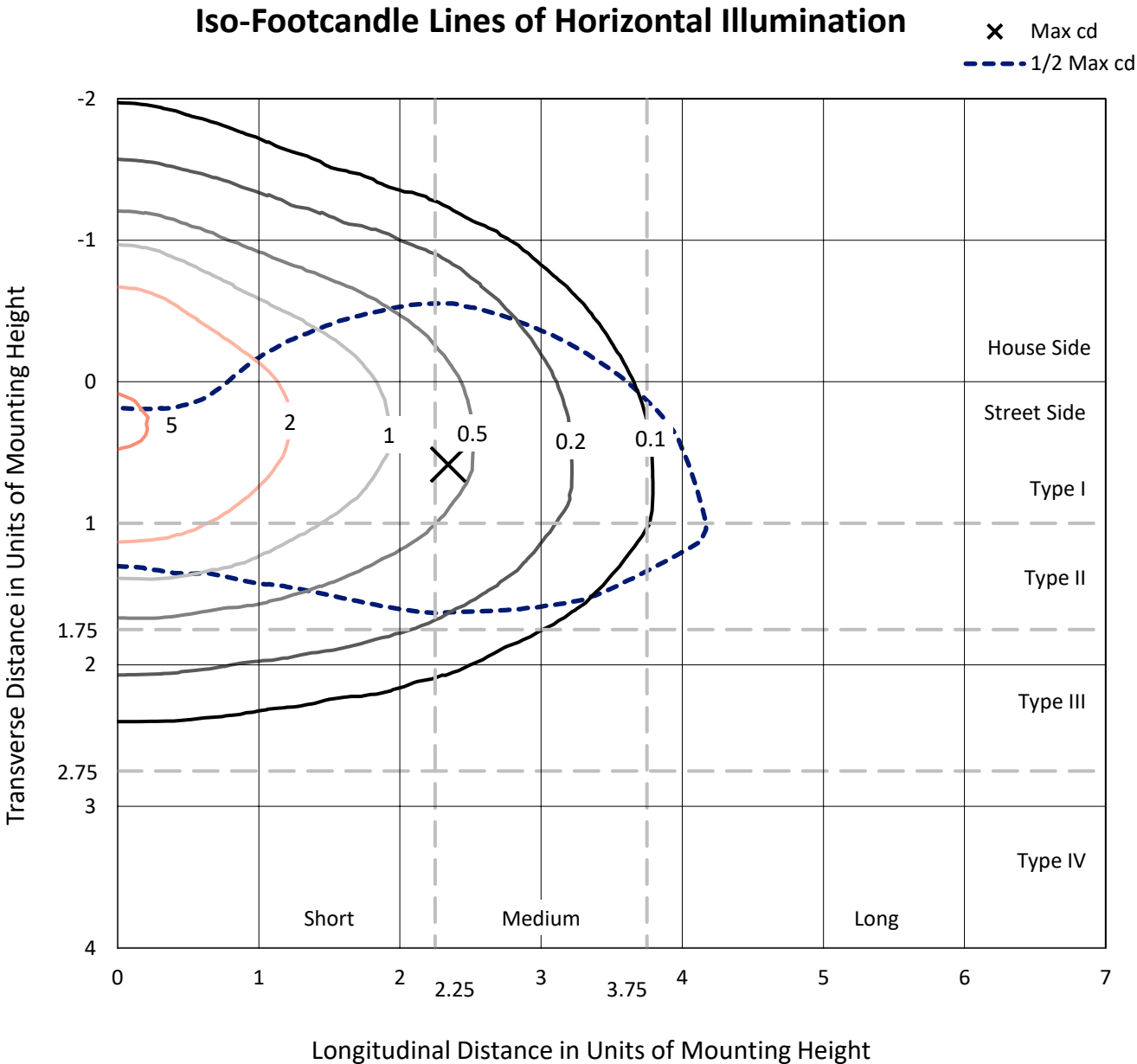
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14709 lumens
Efficiency: N/A
Efficacy: 158.0 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): 93.1
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



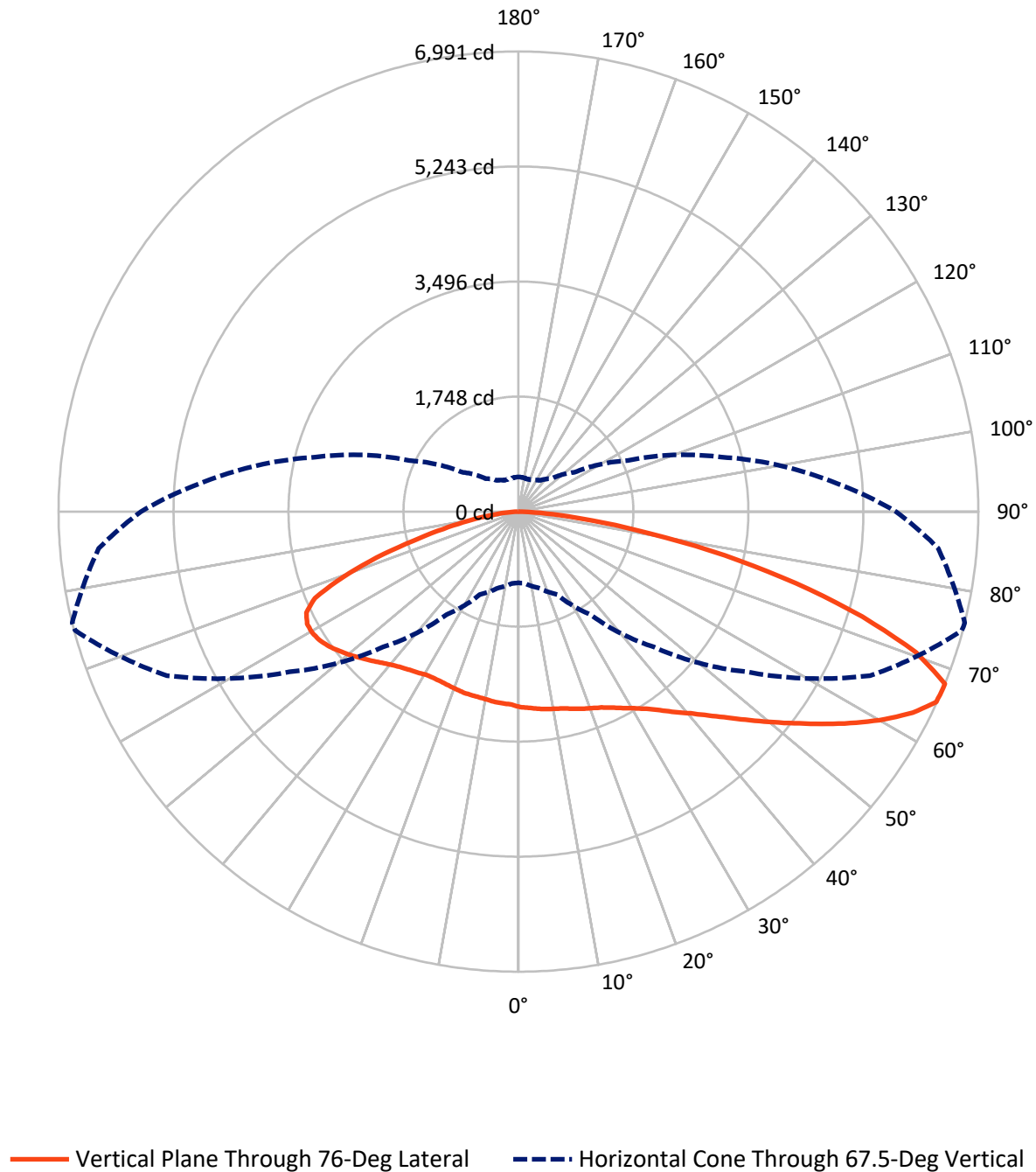
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Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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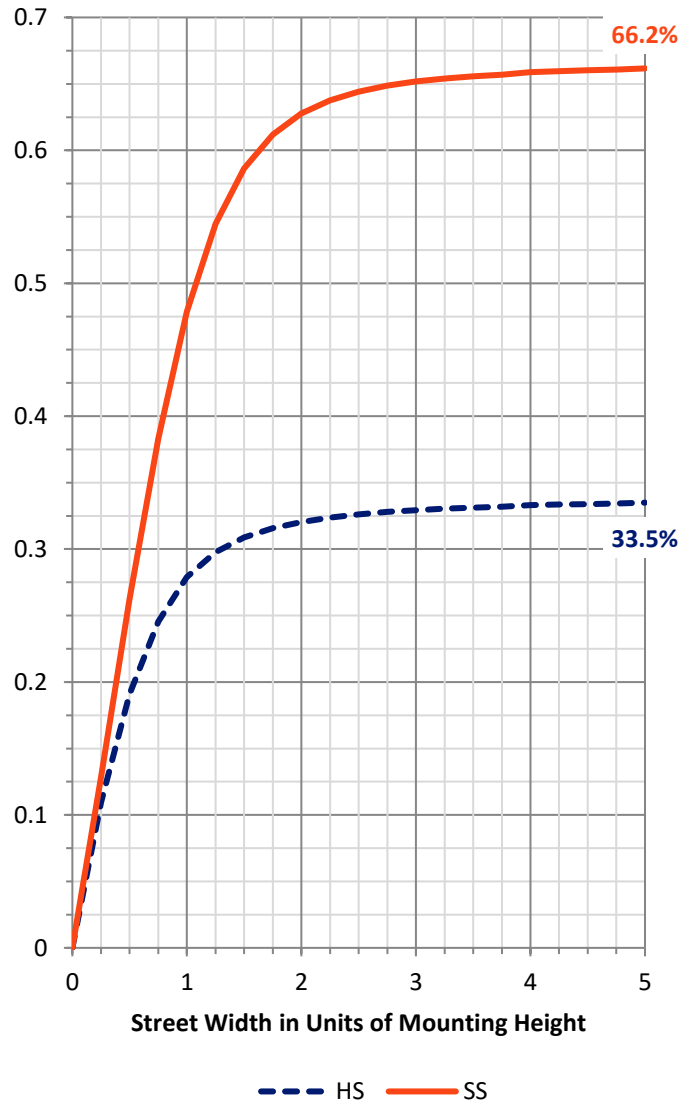
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4970.2	0.0	4970.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	9738.8	0.0	9738.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	14709.0	0.0	14709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	1.9
10°-20°	875.9	6.0
20°-30°	1488.2	10.1
30°-40°	2117.5	14.4
40°-50°	2674.3	18.2
50°-60°	2895.4	19.7
60°-70°	2693.1	18.3
70°-80°	1446.4	9.8
80°-90°	231.8	1.6
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°	14709.0	100.0
0°-180°	14709.0	100.0

Coefficient of Utilization



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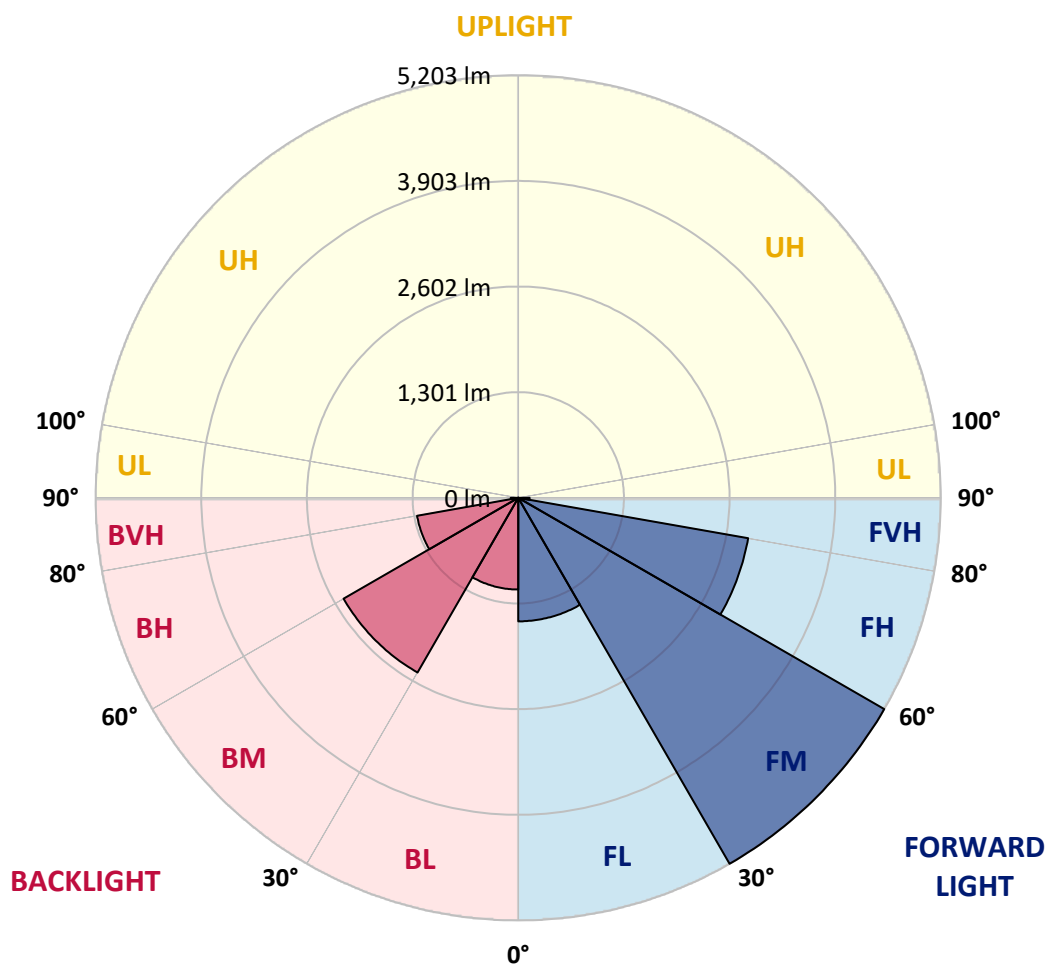
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1521.1	10.3			
FM	(30°-60°)	5203.5	35.4			
FH	(60°-80°)	2874.0	19.5			G2/5000
FVH	(80°-90°)	140.2	1.0			G2/225
BL	(0°-30°)	1129.5	7.7	B3/2500		
BM	(30°-60°)	2483.7	16.9	B2/2500		
BH	(60°-80°)	1265.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	91.6	0.6			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°	76°	85°
0°	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2
2.5°	3061.3	3055.8	3034.0	3036.7	3036.7	3034.0	3001.2	2987.6	2987.6	2984.8	2954.8
5°	3170.5	3162.3	3137.8	3132.3	3121.4	3107.7	3055.8	3025.8	3012.1	3009.4	2968.5
7.5°	3298.9	3288.0	3257.9	3241.5	3214.2	3178.7	3113.2	3066.8	3034.0	3031.3	2973.9
10°	3427.2	3416.3	3380.8	3350.8	3312.5	3255.2	3170.5	3102.3	3050.4	3044.9	2976.6
12.5°	3580.2	3569.2	3525.6	3487.3	3430.0	3353.5	3241.5	3148.7	3077.7	3069.5	2984.8
15°	3741.3	3724.9	3681.2	3637.5	3566.5	3468.2	3334.4	3211.5	3121.4	3107.7	3009.4
17.5°	3875.1	3853.3	3817.8	3774.1	3694.9	3580.2	3427.2	3274.3	3162.3	3151.4	3034.0
20°	3989.8	3973.4	3935.2	3894.2	3809.6	3683.9	3514.6	3337.1	3200.6	3186.9	3053.1
22.5°	4099.0	4077.2	4055.3	4025.3	3932.5	3793.2	3615.7	3413.6	3249.7	3233.3	3077.7
25°	4224.7	4200.1	4191.9	4175.5	4066.3	3924.3	3738.6	3509.2	3318.0	3298.9	3121.4
27.5°	4380.3	4353.0	4336.6	4336.6	4205.5	4058.1	3869.6	3621.1	3397.2	3380.8	3176.0
30°	4544.2	4511.4	4486.8	4486.8	4339.4	4191.9	3998.0	3733.1	3487.3	3468.2	3247.0
32.5°	4688.9	4656.1	4628.8	4626.1	4473.2	4325.7	4131.8	3856.0	3596.6	3572.0	3334.4
35°	4800.9	4770.8	4746.3	4751.7	4607.0	4462.2	4282.0	4019.8	3733.1	3705.8	3449.1
37.5°	4869.1	4858.2	4844.6	4863.7	4729.9	4593.3	4437.7	4178.2	3888.8	3864.2	3591.1
40°	4904.6	4896.4	4951.1	4975.6	4833.6	4710.7	4593.3	4342.1	4058.1	4030.8	3754.9
42.5°	4956.5	5024.8	5046.6	5041.2	4910.1	4800.9	4735.3	4519.6	4257.4	4232.8	3951.6
45°	4770.8	4754.4	4874.6	4940.1	4915.6	4858.2	4869.1	4732.6	4489.5	4465.0	4178.2
47.5°	4522.3	4500.5	4568.7	4729.9	4825.4	4880.1	4989.3	4953.8	4757.2	4735.3	4443.1
50°	3998.0	4028.0	4282.0	4497.7	4686.2	4874.6	5090.3	5191.4	5052.1	5030.3	4727.1
52.5°	3416.3	3446.4	3711.3	4208.3	4516.9	4833.6	5164.1	5429.0	5371.6	5347.0	5030.3
55°	2993.0	3058.6	3359.0	3719.4	4276.5	4705.3	5207.8	5672.0	5715.7	5693.9	5360.7
57.5°	2572.5	2621.6	2848.3	3167.8	3948.8	4481.4	5205.0	5898.7	6076.2	6054.3	5696.6
60°	2078.2	2141.0	2321.2	2665.3	3511.9	4213.7	5128.6	6076.2	6423.0	6406.6	6021.6
62.5°	1739.6	1758.7	1887.0	2184.7	2949.3	3875.1	4956.5	6171.8	6737.1	6726.1	6313.8
65°	1400.9	1403.7	1521.1	1769.6	2405.9	3454.5	4664.3	6136.3	6974.6	6980.1	6524.0
67.5°	1081.4	1095.1	1201.6	1390.0	1911.6	2908.4	4246.5	5895.9	6977.4	6991.0	6403.9
70°	748.3	759.2	920.3	1103.3	1477.4	2318.5	3681.2	5259.7	6403.9	6414.8	5740.3
72.5°	527.1	532.5	704.6	882.1	1155.2	1747.8	2777.3	4350.3	5459.0	5467.2	4828.2
75°	393.2	398.7	497.0	669.1	884.8	1209.8	1898.0	3331.7	4361.2	4361.2	3812.3
77.5°	278.5	281.3	322.2	461.5	589.9	816.5	1141.5	2182.0	3200.6	3206.0	2777.3
80°	188.4	191.2	210.3	311.3	368.7	442.4	619.9	1144.2	2018.1	2026.3	1764.1
82.5°	98.3	103.8	117.4	158.4	185.7	245.8	319.5	581.7	1116.9	1138.8	1059.6
85°	38.2	38.2	43.7	51.9	68.3	95.6	147.5	221.2	505.2	521.6	467.0
87.5°	13.7	13.7	16.4	16.4	19.1	21.8	24.6	32.8	57.3	57.3	54.6
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°	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2	2971.2
2.5°	2943.9	2943.9	2930.2	2935.7	2933.0	2927.5	2922.0	2930.2	2922.0	2902.9	2900.2
5°	2949.3	2943.9	2922.0	2919.3	2911.1	2900.2	2886.5	2892.0	2878.3	2862.0	2859.2
7.5°	2952.1	2941.1	2911.1	2900.2	2883.8	2862.0	2840.1	2840.1	2821.0	2804.6	2801.9
10°	2946.6	2933.0	2892.0	2870.1	2840.1	2807.3	2777.3	2769.1	2747.3	2728.1	2728.1
12.5°	2949.3	2930.2	2878.3	2842.8	2801.9	2760.9	2722.7	2711.8	2692.6	2673.5	2670.8
15°	2965.7	2938.4	2872.9	2826.4	2766.4	2719.9	2679.0	2670.8	2654.4	2640.8	2640.8
17.5°	2982.1	2946.6	2864.7	2799.1	2725.4	2673.5	2635.3	2635.3	2624.4	2616.2	2616.2
20°	2990.3	2949.3	2848.3	2760.9	2676.3	2621.6	2586.1	2591.6	2588.9	2586.1	2586.1
22.5°	3009.4	2954.8	2834.6	2725.4	2624.4	2567.0	2534.2	2542.4	2539.7	2539.7	2542.4
25°	3039.5	2968.5	2823.7	2692.6	2575.2	2512.4	2476.9	2482.4	2482.4	2482.4	2482.4
27.5°	3080.4	2995.8	2821.0	2662.6	2526.1	2455.1	2411.4	2411.4	2400.4	2403.2	2405.9
30°	3143.2	3047.6	2826.4	2635.3	2474.2	2384.0	2332.2	2324.0	2321.2	2326.7	2329.4
32.5°	3219.7	3118.7	2859.2	2616.2	2419.5	2304.9	2239.3	2236.6	2228.4	2228.4	2228.4
35°	3315.3	3186.9	2889.3	2613.4	2364.9	2220.2	2149.2	2141.0	2121.9	2113.7	2113.7
37.5°	3438.2	3293.4	2924.8	2594.3	2318.5	2138.3	2053.6	2026.3	2004.5	2001.7	2001.7
40°	3588.4	3413.6	2976.6	2572.5	2269.4	2053.6	1941.6	1895.2	1898.0	1908.9	1908.9
42.5°	3765.9	3561.1	3042.2	2561.6	2198.3	1966.2	1810.6	1755.9	1775.1	1786.0	1788.7
45°	3973.4	3735.8	3115.9	2547.9	2132.8	1867.9	1671.3	1603.0	1611.2	1613.9	1616.7
47.5°	4213.7	3929.7	3192.4	2537.0	2059.1	1745.0	1518.4	1428.2	1425.5	1409.1	1414.6
50°	4465.0	4134.5	3271.6	2517.9	1969.0	1600.3	1357.2	1250.7	1228.9	1204.3	1207.0
52.5°	4732.6	4344.8	3345.3	2487.8	1857.0	1452.8	1204.3	1089.6	1045.9	1018.6	1024.1
55°	5027.5	4560.6	3416.3	2441.4	1739.6	1305.4	1067.8	950.3	895.7	873.9	876.6
57.5°	5297.9	4768.1	3468.2	2384.0	1611.2	1171.5	947.6	832.9	797.4	794.7	797.4
60°	5560.0	4942.9	3490.1	2304.9	1480.1	1048.7	835.6	748.3	723.7	737.3	740.1
62.5°	5781.2	5054.8	3479.1	2198.3	1346.3	931.2	745.5	682.7	666.3	693.6	696.4
65°	5909.6	5090.3	3402.7	2045.4	1201.6	816.5	660.9	592.6	584.4	600.8	609.0
67.5°	5740.3	4869.1	3195.1	1835.1	1040.5	710.0	578.9	524.3	510.7	524.3	524.3
70°	5087.6	4219.2	2703.6	1502.0	863.0	606.3	502.5	464.2	453.3	464.2	461.5
72.5°	4238.3	3509.2	2130.1	1171.5	680.0	510.7	436.9	401.4	390.5	379.6	374.1
75°	3288.0	2665.3	1545.7	860.2	513.4	409.6	365.9	333.2	305.9	316.8	311.3
77.5°	2408.6	1870.6	1095.1	595.3	368.7	316.8	286.7	262.2	243.0	264.9	262.2
80°	1551.1	1209.8	731.9	398.7	254.0	221.2	210.3	196.6	215.7	281.3	286.7
82.5°	947.6	767.4	436.9	259.4	166.6	147.5	136.5	136.5	221.2	243.0	245.8
85°	423.3	406.9	237.6	133.8	92.8	84.7	76.5	98.3	90.1	65.5	68.3
87.5°	68.3	71.0	51.9	46.4	35.5	35.5	27.3	19.1	13.7	8.2	8.2
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)