

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: P836894

Luminaire Tested: **ARCH3-90-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836894
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: ARCH3-90-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

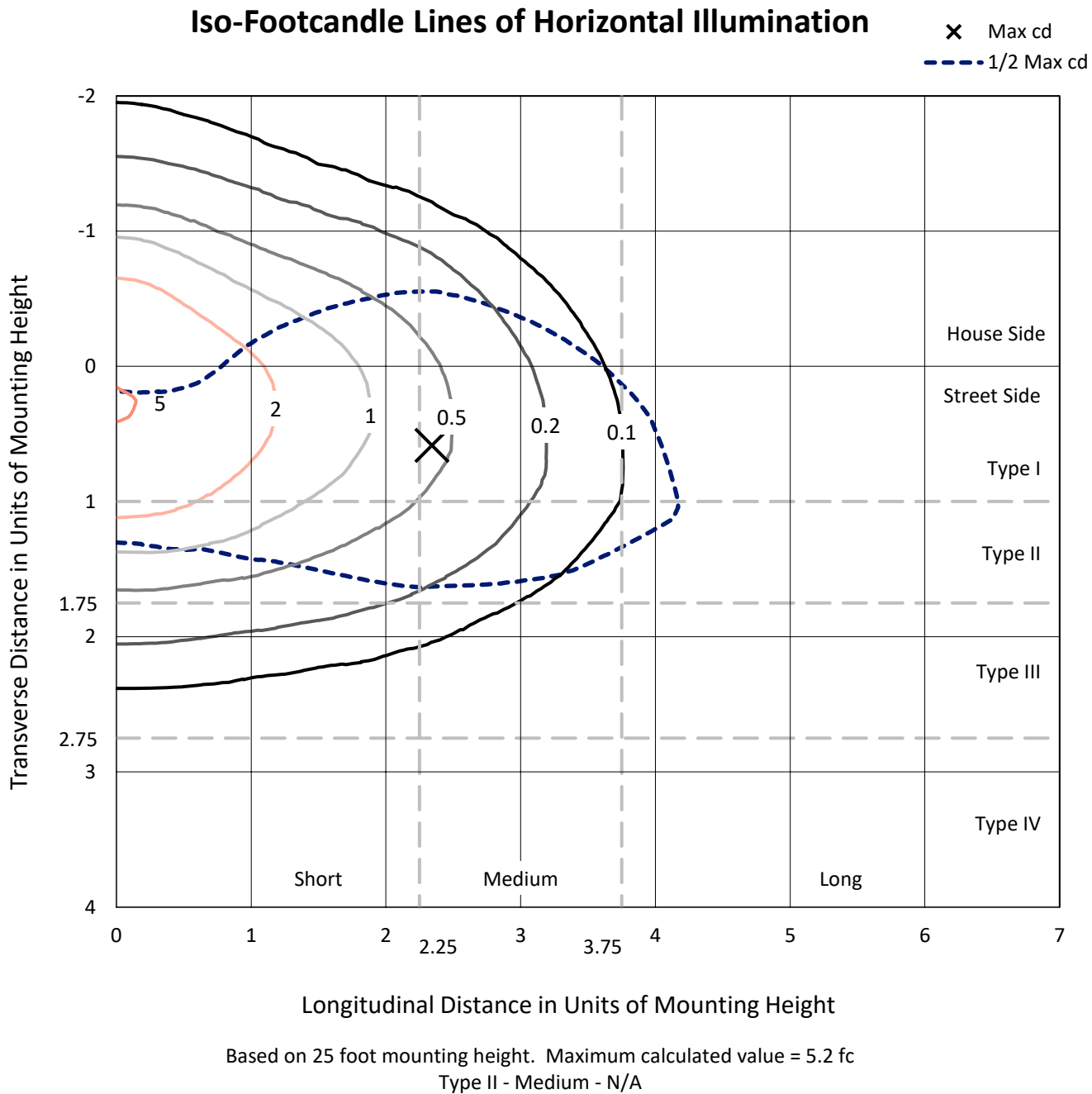
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14195 lumens
Efficiency: N/A
Efficacy: 152.5 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



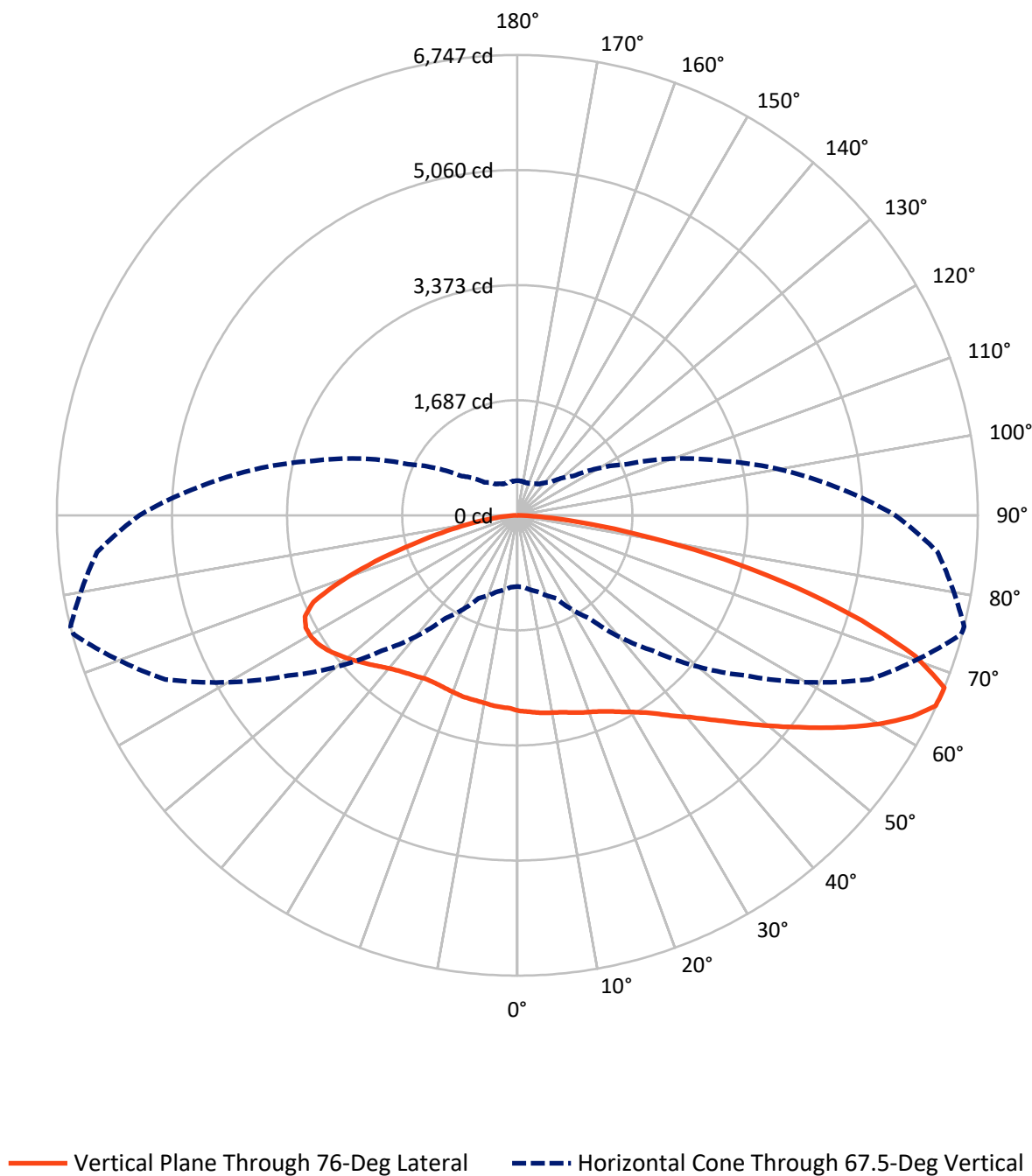
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Luminous Intensity Polar Plot



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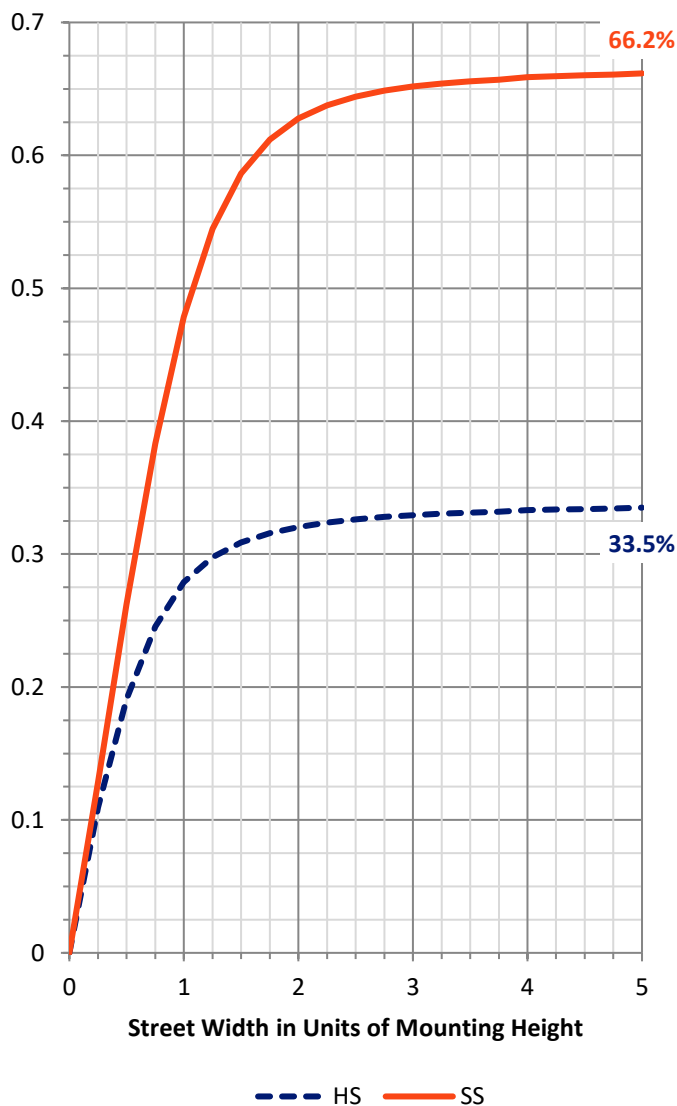
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4796.6	0.0	4796.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	9398.4	0.0	9398.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	14195.0	0.0	14195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.9
10°-20°	845.3	6.0
20°-30°	1436.2	10.1
30°-40°	2043.5	14.4
40°-50°	2580.8	18.2
50°-60°	2794.2	19.7
60°-70°	2599.0	18.3
70°-80°	1395.9	9.8
80°-90°	223.7	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°	14195.0	100.0
0°-180°	14195.0	100.0

Coefficient of Utilization



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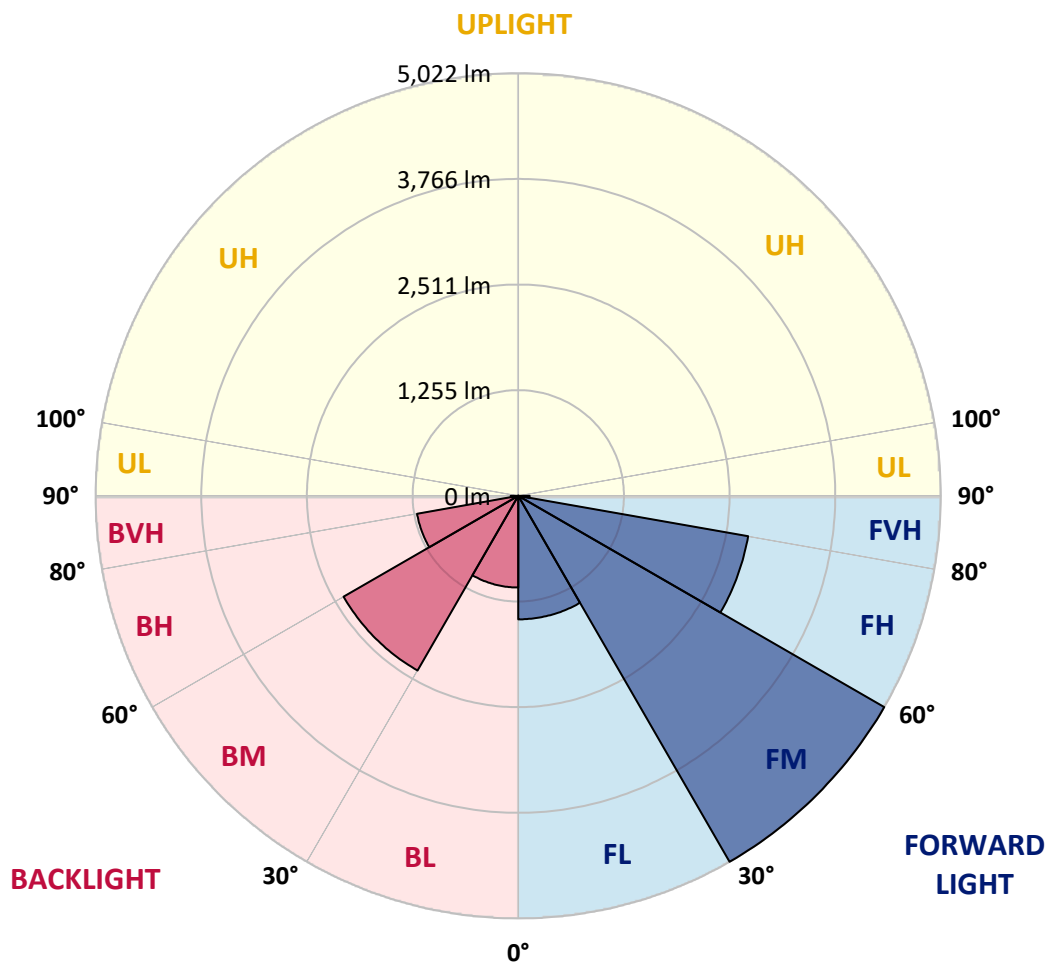
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1467.9	10.3			
FM	(30°-60°)	5021.7	35.4			
FH	(60°-80°)	2773.6	19.5			G2/5000
FVH	(80°-90°)	135.3	1.0			G2/225
BL	(0°-30°)	1090.0	7.7	B3/2500		
BM	(30°-60°)	2396.9	16.9	B2/2500		
BH	(60°-80°)	1221.3	8.6	B3/2500		G3/2500
BVH	(80°-90°)	88.4	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°	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4
2.5°	2954.3	2949.1	2928.0	2930.6	2930.6	2928.0	2896.3	2883.2	2883.2	2880.5	2851.5
5°	3059.7	3051.8	3028.1	3022.8	3012.3	2999.1	2949.1	2920.1	2906.9	2904.3	2864.7
7.5°	3183.6	3173.1	3144.1	3128.3	3101.9	3067.7	3004.4	2959.6	2928.0	2925.3	2870.0
10°	3307.5	3296.9	3262.7	3233.7	3196.8	3141.4	3059.7	2993.9	2943.8	2938.5	2872.6
12.5°	3455.1	3444.5	3402.4	3365.5	3310.1	3236.3	3128.3	3038.7	2970.1	2962.2	2880.5
15°	3610.6	3594.7	3552.6	3510.4	3441.9	3347.0	3217.9	3099.3	3012.3	2999.1	2904.3
17.5°	3739.7	3718.6	3684.3	3642.2	3565.8	3455.1	3307.5	3159.9	3051.8	3041.3	2928.0
20°	3850.4	3834.6	3797.7	3758.1	3676.4	3555.2	3391.8	3220.5	3088.7	3075.6	2946.4
22.5°	3955.8	3934.7	3913.6	3884.6	3795.0	3660.6	3489.3	3294.3	3136.2	3120.4	2970.1
25°	4077.0	4053.3	4045.4	4029.6	3924.2	3787.1	3607.9	3386.5	3202.1	3183.6	3012.3
27.5°	4227.2	4200.9	4185.1	4185.1	4058.6	3916.3	3734.4	3494.6	3278.5	3262.7	3065.0
30°	4385.4	4353.7	4330.0	4330.0	4187.7	4045.4	3858.3	3602.6	3365.5	3347.0	3133.5
32.5°	4525.1	4493.4	4467.1	4464.4	4316.9	4174.5	3987.4	3721.2	3470.9	3447.2	3217.9
35°	4633.1	4604.1	4580.4	4585.7	4446.0	4306.3	4132.4	3879.4	3602.6	3576.3	3328.6
37.5°	4699.0	4688.4	4675.3	4693.7	4564.6	4432.8	4282.6	4032.2	3752.9	3729.1	3465.6
40°	4733.3	4725.3	4778.1	4801.8	4664.7	4546.1	4432.8	4190.3	3916.3	3889.9	3623.7
42.5°	4783.3	4849.2	4870.3	4865.0	4738.5	4633.1	4569.9	4361.7	4108.7	4084.9	3813.5
45°	4604.1	4588.3	4704.3	4767.5	4743.8	4688.4	4699.0	4567.2	4332.7	4308.9	4032.2
47.5°	4364.3	4343.2	4409.1	4564.6	4656.8	4709.5	4814.9	4780.7	4590.9	4569.9	4287.9
50°	3858.3	3887.3	4132.4	4340.6	4522.4	4704.3	4912.5	5010.0	4875.6	4854.5	4561.9
52.5°	3296.9	3325.9	3581.6	4061.2	4359.0	4664.7	4983.6	5239.3	5183.9	5160.2	4854.5
55°	2888.4	2951.7	3241.6	3589.5	4127.1	4540.9	5025.8	5473.8	5516.0	5494.9	5173.4
57.5°	2482.6	2530.0	2748.8	3057.1	3810.8	4324.8	5023.1	5692.6	5863.9	5842.8	5497.5
60°	2005.6	2066.2	2240.1	2572.2	3389.2	4066.5	4949.4	5863.9	6198.6	6182.7	5811.1
62.5°	1678.8	1697.2	1821.1	2108.4	2846.3	3739.7	4783.3	5956.1	6501.6	6491.1	6093.1
65°	1352.0	1354.6	1467.9	1707.8	2321.8	3333.8	4501.3	5921.8	6730.9	6736.2	6296.1
67.5°	1043.6	1056.8	1159.6	1341.4	1844.8	2806.7	4098.1	5689.9	6733.5	6746.7	6180.1
70°	722.1	732.7	888.1	1064.7	1425.8	2237.5	3552.6	5075.9	6180.1	6190.6	5539.7
72.5°	508.6	513.9	679.9	851.2	1114.8	1686.7	2680.2	4198.3	5268.2	5276.2	4659.5
75°	379.5	384.8	479.7	645.7	853.9	1167.5	1831.6	3215.2	4208.8	4208.8	3679.1
77.5°	268.8	271.5	311.0	445.4	569.3	788.0	1101.6	2105.7	3088.7	3094.0	2680.2
80°	181.8	184.5	202.9	300.4	355.8	426.9	598.2	1104.2	1947.6	1955.5	1702.5
82.5°	94.9	100.1	113.3	152.9	179.2	237.2	308.3	561.3	1077.9	1099.0	1022.6
85°	36.9	36.9	42.2	50.1	65.9	92.2	142.3	213.5	487.6	503.4	450.7
87.5°	13.2	13.2	15.8	15.8	18.4	21.1	23.7	31.6	55.3	55.3	52.7
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°	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4	2867.4
2.5°	2841.0	2841.0	2827.8	2833.1	2830.5	2825.2	2819.9	2827.8	2819.9	2801.5	2798.8
5°	2846.3	2841.0	2819.9	2817.3	2809.4	2798.8	2785.7	2790.9	2777.8	2761.9	2759.3
7.5°	2848.9	2838.4	2809.4	2798.8	2783.0	2761.9	2740.9	2740.9	2722.4	2706.6	2704.0
10°	2843.6	2830.5	2790.9	2769.8	2740.9	2709.2	2680.2	2672.3	2651.3	2632.8	2632.8
12.5°	2846.3	2827.8	2777.8	2743.5	2704.0	2664.4	2627.5	2617.0	2598.5	2580.1	2577.5
15°	2862.1	2835.7	2772.5	2727.7	2669.7	2624.9	2585.4	2577.5	2561.6	2548.5	2548.5
17.5°	2877.9	2843.6	2764.6	2701.3	2630.2	2580.1	2543.2	2543.2	2532.7	2524.8	2524.8
20°	2885.8	2846.3	2748.8	2664.4	2582.7	2530.0	2495.8	2501.0	2498.4	2495.8	2495.8
22.5°	2904.3	2851.5	2735.6	2630.2	2532.7	2477.3	2445.7	2453.6	2451.0	2451.0	2453.6
25°	2933.2	2864.7	2725.0	2598.5	2485.2	2424.6	2390.3	2395.6	2395.6	2395.6	2395.6
27.5°	2972.8	2891.1	2722.4	2569.6	2437.8	2369.3	2327.1	2327.1	2316.6	2319.2	2321.8
30°	3033.4	2941.2	2727.7	2543.2	2387.7	2300.7	2250.7	2242.8	2240.1	2245.4	2248.0
32.5°	3107.2	3009.7	2759.3	2524.8	2335.0	2224.3	2161.1	2158.4	2150.5	2150.5	2150.5
35°	3199.4	3075.6	2788.3	2522.1	2282.3	2142.6	2074.1	2066.2	2047.7	2039.8	2039.8
37.5°	3318.0	3178.3	2822.6	2503.7	2237.5	2063.5	1981.9	1955.5	1934.4	1931.8	1931.8
40°	3463.0	3294.3	2872.6	2482.6	2190.1	1981.9	1873.8	1829.0	1831.6	1842.2	1842.2
42.5°	3634.3	3436.6	2935.9	2472.0	2121.5	1897.5	1747.3	1694.6	1713.0	1723.6	1726.2
45°	3834.6	3605.3	3007.0	2458.9	2058.3	1802.6	1612.9	1547.0	1554.9	1557.5	1560.2
47.5°	4066.5	3792.4	3080.8	2448.3	1987.1	1684.0	1465.3	1378.3	1375.7	1359.9	1365.2
50°	4308.9	3990.1	3157.3	2429.9	1900.2	1544.4	1309.8	1207.0	1185.9	1162.2	1164.9
52.5°	4567.2	4193.0	3228.4	2400.9	1792.1	1402.1	1162.2	1051.5	1009.4	983.0	988.3
55°	4851.8	4401.2	3296.9	2356.1	1678.8	1259.7	1030.5	917.1	864.4	843.3	846.0
57.5°	5112.8	4601.5	3347.0	2300.7	1554.9	1130.6	914.5	803.8	769.5	766.9	769.5
60°	5365.8	4770.1	3368.1	2224.3	1428.4	1012.0	806.4	722.1	698.4	711.6	714.2
62.5°	5579.2	4878.2	3357.6	2121.5	1299.3	898.7	719.5	658.9	643.0	669.4	672.0
65°	5703.1	4912.5	3283.8	1973.9	1159.6	788.0	637.8	571.9	564.0	579.8	587.7
67.5°	5539.7	4699.0	3083.5	1771.0	1004.1	685.2	558.7	506.0	492.8	506.0	506.0
70°	4909.8	4071.8	2609.1	1449.5	832.8	585.1	484.9	448.0	437.5	448.0	445.4
72.5°	4090.2	3386.5	2055.6	1130.6	656.2	492.8	421.7	387.4	376.9	366.3	361.1
75°	3173.1	2572.2	1491.7	830.2	495.5	395.3	353.1	321.5	295.2	305.7	300.4
77.5°	2324.5	1805.3	1056.8	574.5	355.8	305.7	276.7	253.0	234.6	255.6	253.0
80°	1496.9	1167.5	706.3	384.8	245.1	213.5	202.9	189.8	208.2	271.5	276.7
82.5°	914.5	740.6	421.7	250.4	160.8	142.3	131.8	131.8	213.5	234.6	237.2
85°	408.5	392.7	229.3	129.1	89.6	81.7	73.8	94.9	87.0	63.3	65.9
87.5°	65.9	68.5	50.1	44.8	34.3	34.3	26.4	18.4	13.2	7.9	7.9
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)