

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: P842633

Luminaire Tested: **ARCH4-70-750-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13531 lumens
Efficiency: N/A
Efficacy: 183.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.8
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



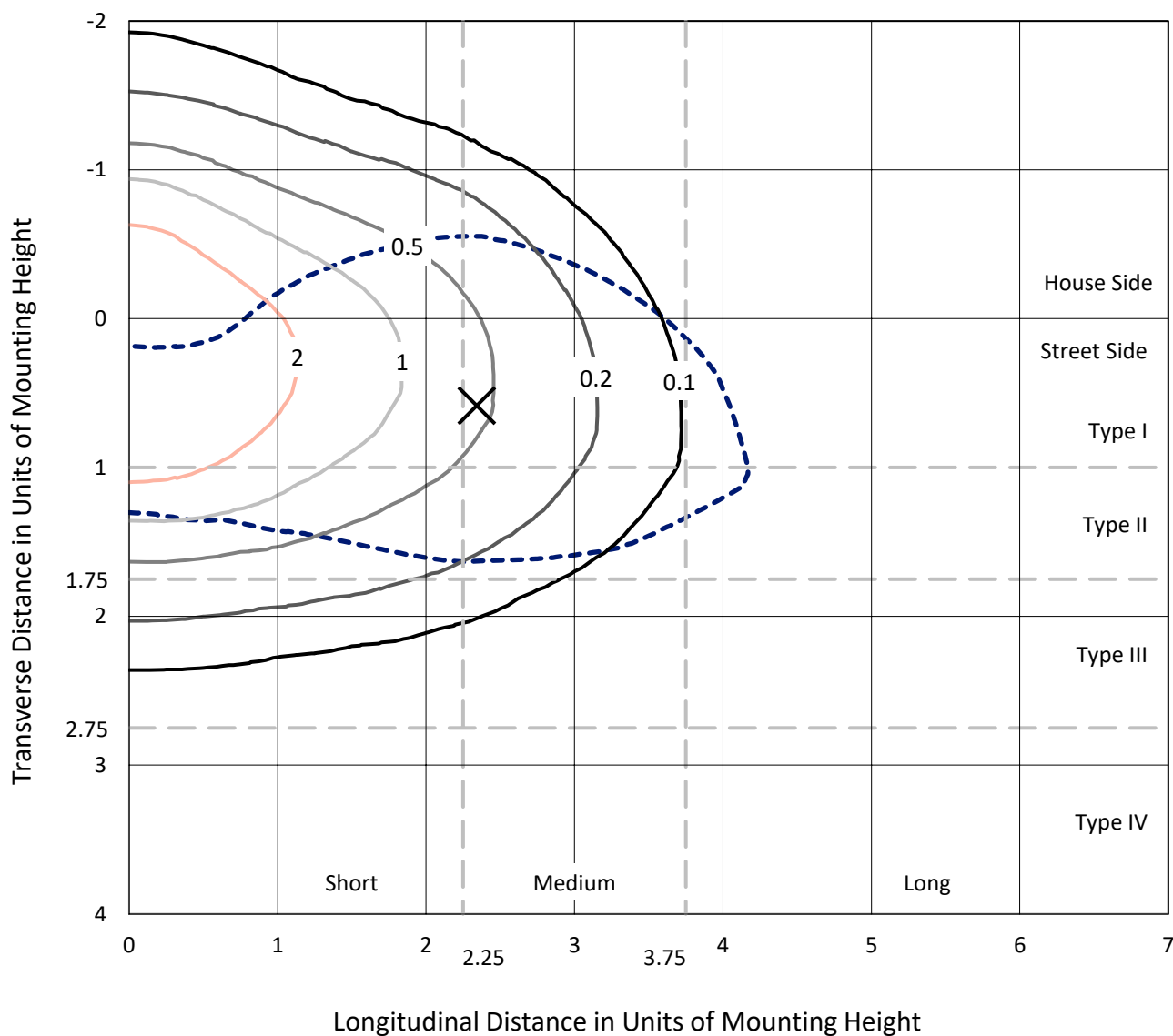
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

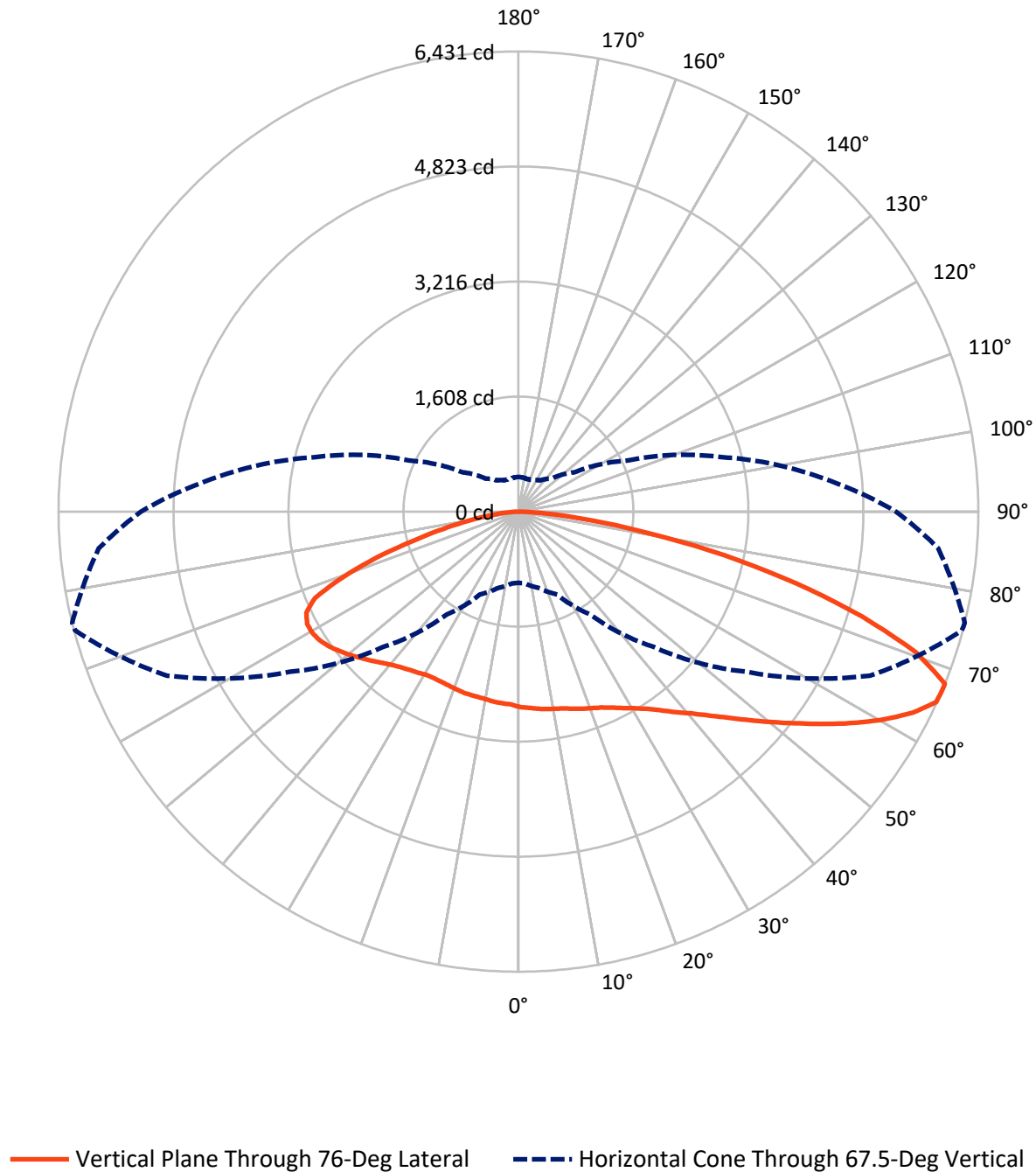
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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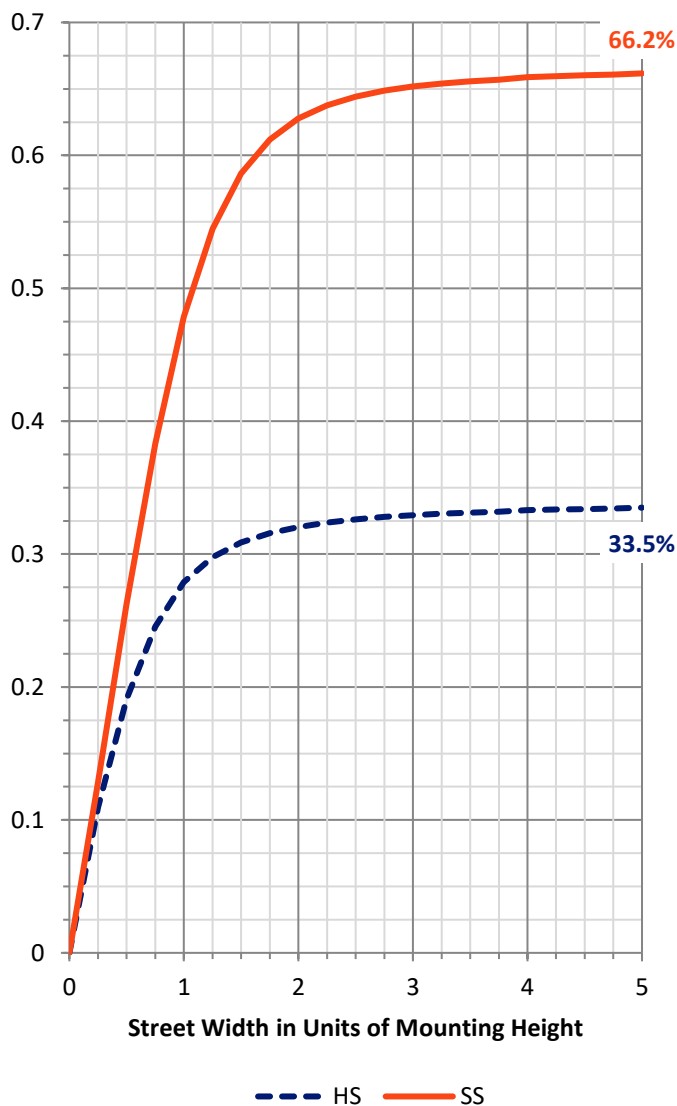
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4572.2	0.0	4572.2
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	8958.8	0.0	8958.8
	% Fixture	66.2	0.0	66.2
Total	Lumens	13531.0	0.0	13531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	1.9
10°-20°	805.7	6.0
20°-30°	1369.0	10.1
30°-40°	1947.9	14.4
40°-50°	2460.1	18.2
50°-60°	2663.5	19.7
60°-70°	2477.4	18.3
70°-80°	1330.6	9.8
80°-90°	213.2	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°	13531.0	100.0
0°-180°	13531.0	100.0

Coefficient of Utilization



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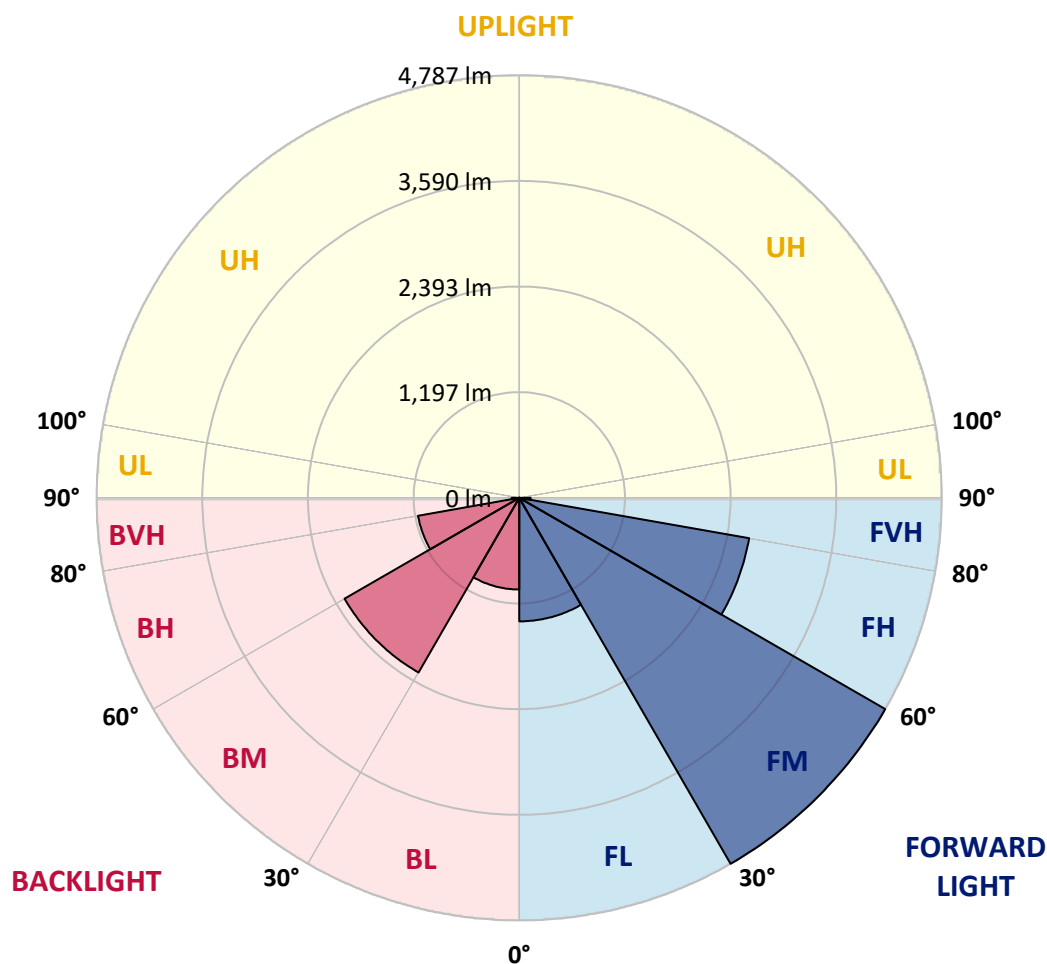
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1399.2	10.3			
FM	(30°-60°)	4786.8	35.4			
FH	(60°-80°)	2643.8	19.5			G2/5000
FVH	(80°-90°)	129.0	1.0			G2/225
BL	(0°-30°)	1039.0	7.7	B3/2500		
BM	(30°-60°)	2284.8	16.9	B2/2500		
BH	(60°-80°)	1164.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	84.2	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°	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2
2.5°	2816.1	2811.1	2791.0	2793.5	2793.5	2791.0	2760.9	2748.3	2748.3	2745.8	2718.2
5°	2916.6	2909.1	2886.5	2881.4	2871.4	2858.8	2811.1	2783.5	2770.9	2768.4	2730.7
7.5°	3034.7	3024.6	2997.0	2981.9	2956.8	2924.2	2863.9	2821.2	2791.0	2788.5	2735.7
10°	3152.8	3142.7	3110.1	3082.4	3047.3	2994.5	2916.6	2853.8	2806.1	2801.1	2738.3
12.5°	3293.4	3283.4	3243.2	3208.0	3155.3	3084.9	2981.9	2896.5	2831.2	2823.7	2745.8
15°	3441.7	3426.6	3386.4	3346.2	3280.9	3190.4	3067.3	2954.3	2871.4	2858.8	2768.4
17.5°	3564.8	3544.7	3512.0	3471.8	3399.0	3293.4	3152.8	3012.1	2909.1	2899.0	2791.0
20°	3670.3	3655.2	3620.0	3582.3	3504.5	3388.9	3233.2	3069.9	2944.3	2931.7	2808.6
22.5°	3770.8	3750.7	3730.6	3702.9	3617.5	3489.4	3326.1	3140.2	2989.5	2974.4	2831.2
25°	3886.3	3863.7	3856.2	3841.1	3740.6	3610.0	3439.1	3228.1	3052.3	3034.7	2871.4
27.5°	4029.5	4004.4	3989.3	3989.3	3868.7	3733.1	3559.7	3331.1	3125.1	3110.1	2921.6
30°	4180.2	4150.1	4127.5	4127.5	3991.8	3856.2	3677.8	3434.1	3208.0	3190.4	2987.0
32.5°	4313.4	4283.2	4258.1	4255.6	4114.9	3979.3	3800.9	3547.2	3308.5	3285.9	3067.3
35°	4416.4	4388.7	4366.1	4371.2	4238.0	4104.9	3939.1	3697.9	3434.1	3409.0	3172.9
37.5°	4479.2	4469.1	4456.6	4474.2	4351.1	4225.5	4082.3	3843.6	3577.3	3554.7	3303.5
40°	4511.8	4504.3	4554.5	4577.2	4446.5	4333.5	4225.5	3994.3	3733.1	3708.0	3454.2
42.5°	4559.6	4622.4	4642.5	4637.5	4516.9	4416.4	4356.1	4157.6	3916.5	3893.9	3635.1
45°	4388.7	4373.7	4484.2	4544.5	4521.9	4469.1	4479.2	4353.6	4130.0	4107.4	3843.6
47.5°	4160.1	4140.0	4202.8	4351.1	4439.0	4489.2	4589.7	4557.1	4376.2	4356.1	4087.3
50°	3677.8	3705.4	3939.1	4137.5	4310.9	4484.2	4682.7	4775.6	4647.5	4627.4	4348.6
52.5°	3142.7	3170.3	3414.0	3871.2	4155.1	4446.5	4750.5	4994.2	4941.4	4918.8	4627.4
55°	2753.3	2813.6	3090.0	3421.6	3934.0	4328.5	4790.7	5217.8	5258.0	5237.9	4931.4
57.5°	2366.5	2411.7	2620.2	2914.1	3632.6	4122.5	4788.2	5426.3	5589.6	5569.5	5240.4
60°	1911.8	1969.5	2135.3	2451.9	3230.6	3876.3	4717.8	5589.6	5908.6	5893.5	5539.3
62.5°	1600.2	1617.8	1735.9	2009.7	2713.1	3564.8	4559.6	5677.5	6197.5	6187.5	5808.1
65°	1288.7	1291.3	1399.3	1627.9	2213.2	3177.9	4290.8	5644.8	6416.1	6421.1	6001.6
67.5°	994.8	1007.4	1105.4	1278.7	1758.5	2675.5	3906.4	5423.8	6418.6	6431.1	5891.0
70°	688.3	698.4	846.6	1014.9	1359.1	2132.8	3386.4	4838.4	5891.0	5901.1	5280.6
72.5°	484.8	489.9	648.1	811.4	1062.6	1607.8	2554.9	4001.9	5021.8	5029.3	4441.5
75°	361.8	366.8	457.2	615.5	813.9	1112.9	1746.0	3064.8	4011.9	4011.9	3507.0
77.5°	256.2	258.8	296.4	424.6	542.6	751.1	1050.1	2007.2	2944.3	2949.3	2554.9
80°	173.3	175.9	193.4	286.4	339.1	407.0	570.3	1052.6	1856.5	1864.0	1622.9
82.5°	90.4	95.5	108.0	145.7	170.8	226.1	293.9	535.1	1027.5	1047.6	974.7
85°	35.2	35.2	40.2	47.7	62.8	87.9	135.7	203.5	464.7	479.8	429.6
87.5°	12.6	12.6	15.1	15.1	17.6	20.1	22.6	30.1	52.8	52.8	50.2
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°	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2	2733.2
2.5°	2708.1	2708.1	2695.5	2700.6	2698.1	2693.0	2688.0	2695.5	2688.0	2670.4	2667.9
5°	2713.1	2708.1	2688.0	2685.5	2678.0	2667.9	2655.4	2660.4	2647.8	2632.7	2630.2
7.5°	2715.6	2705.6	2678.0	2667.9	2652.8	2632.7	2612.6	2612.6	2595.1	2580.0	2577.5
10°	2710.6	2698.1	2660.4	2640.3	2612.6	2582.5	2554.9	2547.3	2527.2	2509.6	2509.6
12.5°	2713.1	2695.5	2647.8	2615.2	2577.5	2539.8	2504.6	2494.6	2477.0	2459.4	2456.9
15°	2728.2	2703.1	2642.8	2600.1	2544.8	2502.1	2464.4	2456.9	2441.8	2429.3	2429.3
17.5°	2743.3	2710.6	2635.3	2575.0	2507.1	2459.4	2424.2	2424.2	2414.2	2406.7	2406.7
20°	2750.8	2713.1	2620.2	2539.8	2461.9	2411.7	2379.0	2384.0	2381.5	2379.0	2379.0
22.5°	2768.4	2718.2	2607.6	2507.1	2414.2	2361.4	2331.3	2338.8	2336.3	2336.3	2338.8
25°	2796.0	2730.7	2597.6	2477.0	2369.0	2311.2	2278.5	2283.6	2283.6	2283.6	2283.6
27.5°	2833.7	2755.8	2595.1	2449.4	2323.7	2258.4	2218.2	2218.2	2208.2	2210.7	2213.2
30°	2891.5	2803.6	2600.1	2424.2	2276.0	2193.1	2145.4	2137.8	2135.3	2140.4	2142.9
32.5°	2961.8	2868.9	2630.2	2406.7	2225.8	2120.3	2060.0	2057.5	2049.9	2049.9	2049.9
35°	3049.8	2931.7	2657.9	2404.1	2175.5	2042.4	1977.1	1969.5	1951.9	1944.4	1944.4
37.5°	3162.8	3029.7	2690.5	2386.6	2132.8	1967.0	1889.1	1864.0	1843.9	1841.4	1841.4
40°	3301.0	3140.2	2738.3	2366.5	2087.6	1889.1	1786.1	1743.4	1746.0	1756.0	1756.0
42.5°	3464.3	3275.9	2798.5	2356.4	2022.3	1808.8	1665.6	1615.3	1632.9	1643.0	1645.5
45°	3655.2	3436.6	2866.4	2343.8	1962.0	1718.3	1537.4	1474.6	1482.2	1484.7	1487.2
47.5°	3876.3	3615.0	2936.7	2333.8	1894.2	1605.3	1396.8	1313.9	1311.3	1296.3	1301.3
50°	4107.4	3803.4	3009.6	2316.2	1811.3	1472.1	1248.5	1150.6	1130.5	1107.9	1110.4
52.5°	4353.6	3996.8	3077.4	2288.6	1708.3	1336.5	1107.9	1002.4	962.2	937.0	942.1
55°	4624.9	4195.3	3142.7	2245.9	1600.2	1200.8	982.3	874.2	824.0	803.9	806.4
57.5°	4873.6	4386.2	3190.4	2193.1	1482.2	1077.7	871.7	766.2	733.6	731.0	733.6
60°	5114.8	4547.0	3210.5	2120.3	1361.6	964.7	768.7	688.3	665.7	678.3	680.8
62.5°	5318.2	4650.0	3200.5	2022.3	1238.5	856.6	685.8	628.0	613.0	638.1	640.6
65°	5436.3	4682.7	3130.2	1881.6	1105.4	751.1	607.9	545.1	537.6	552.7	560.2
67.5°	5280.6	4479.2	2939.2	1688.2	957.1	653.2	532.6	482.3	469.8	482.3	482.3
70°	4680.2	3881.3	2487.0	1381.7	793.8	557.7	462.2	427.1	417.0	427.1	424.6
72.5°	3898.9	3228.1	1959.5	1077.7	625.5	469.8	401.9	369.3	359.2	349.2	344.2
75°	3024.6	2451.9	1421.9	791.3	472.3	376.8	336.6	306.5	281.4	291.4	286.4
77.5°	2215.7	1720.8	1007.4	547.7	339.1	291.4	263.8	241.2	223.6	243.7	241.2
80°	1426.9	1112.9	673.3	366.8	233.6	203.5	193.4	180.9	198.5	258.8	263.8
82.5°	871.7	705.9	401.9	238.7	153.2	135.7	125.6	125.6	203.5	223.6	226.1
85°	389.4	374.3	218.6	123.1	85.4	77.9	70.3	90.4	82.9	60.3	62.8
87.5°	62.8	65.3	47.7	42.7	32.7	32.7	25.1	17.6	12.6	7.5	7.5
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)