

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: P257937

Luminaire Tested: **ARCH-L-AF72-210-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24266.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

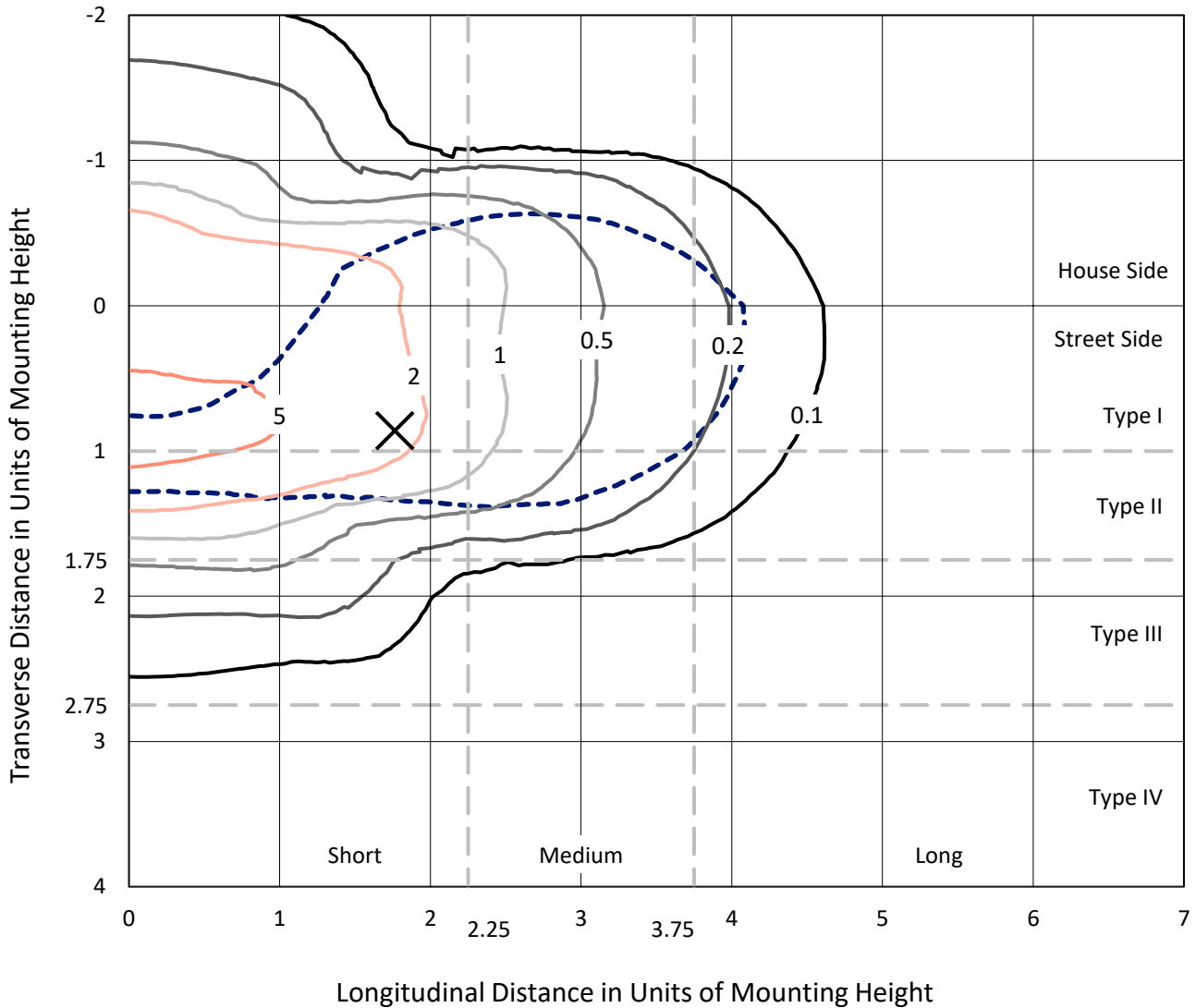
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

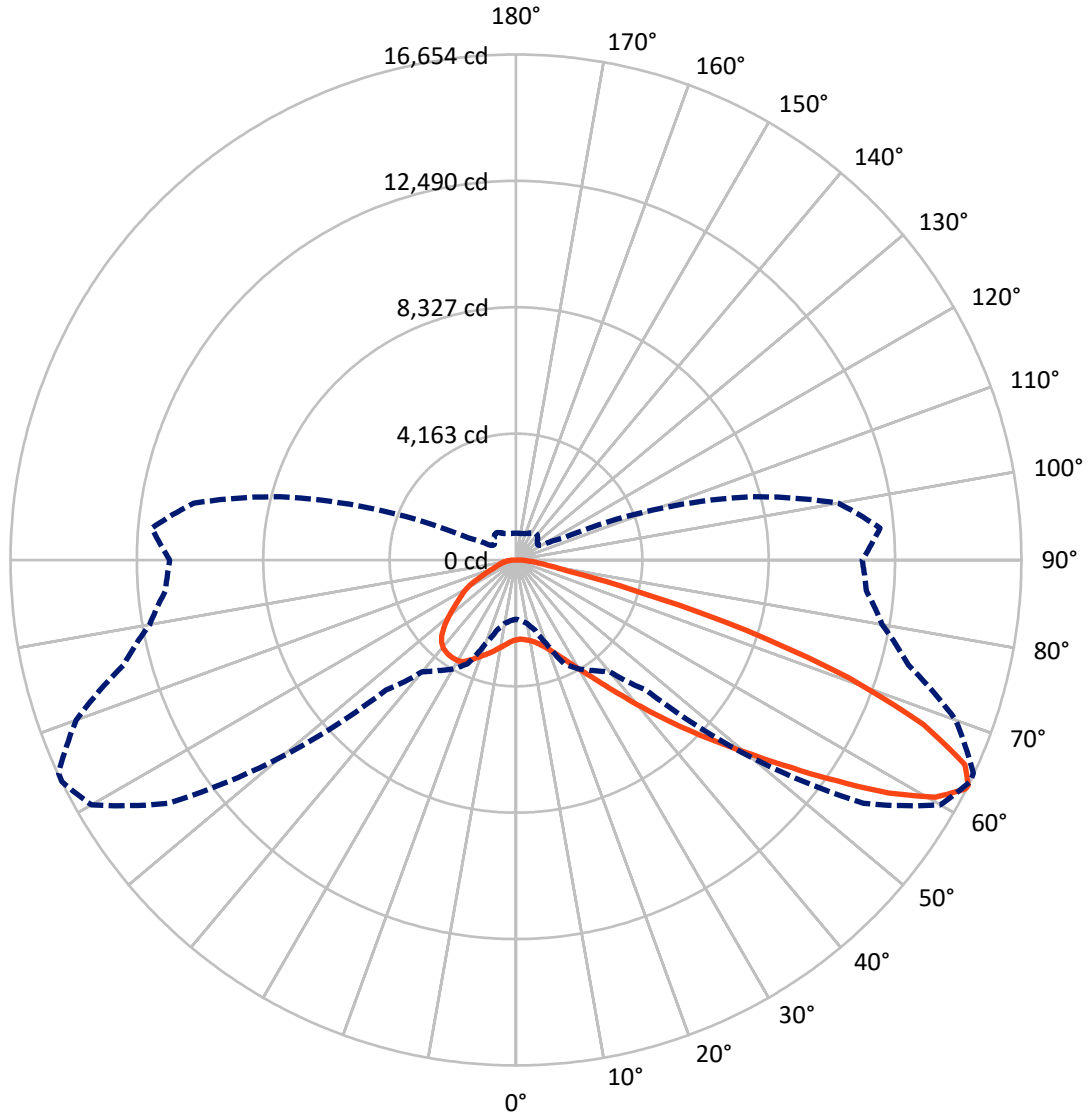
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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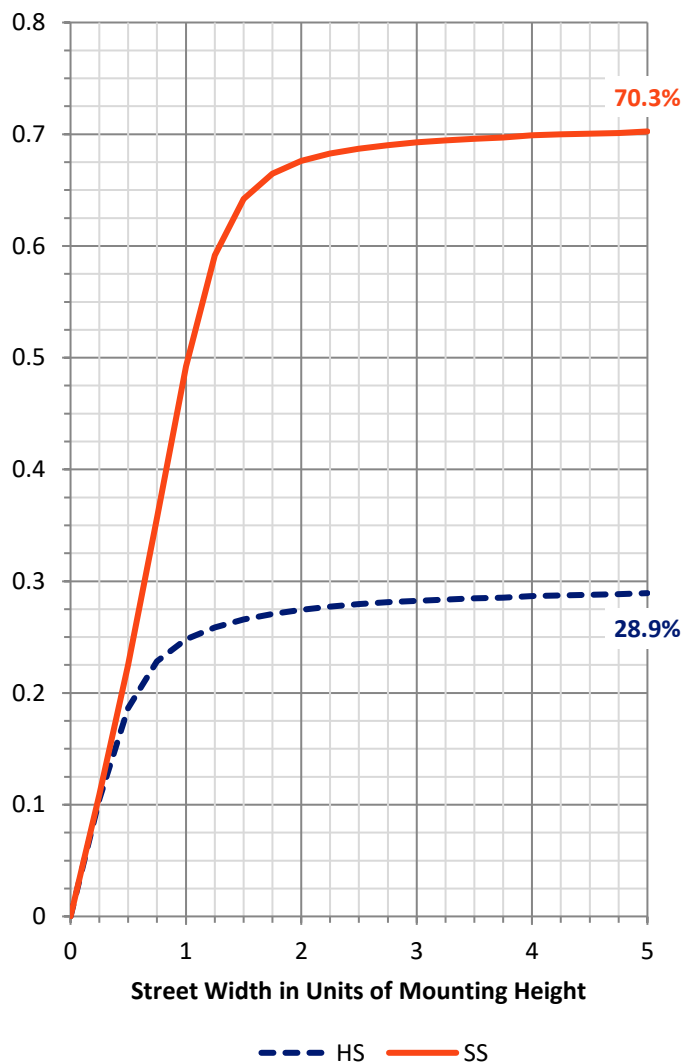
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7133.5	0.0	7133.5
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	17133.0	0.0	17133.0
	% Fixture	70.6	0.0	70.6
Total	Lumens	24266.5	0.0	24266.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	1.1
10°-20°	874.0	3.6
20°-30°	1640.5	6.8
30°-40°	2749.7	11.3
40°-50°	4613.4	19.0
50°-60°	5848.4	24.1
60°-70°	5159.2	21.3
70°-80°	2663.3	11.0
80°-90°	455.7	1.9
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°	24266.5	100.0
0°-180°	24266.5	100.0

Coefficient of Utilization



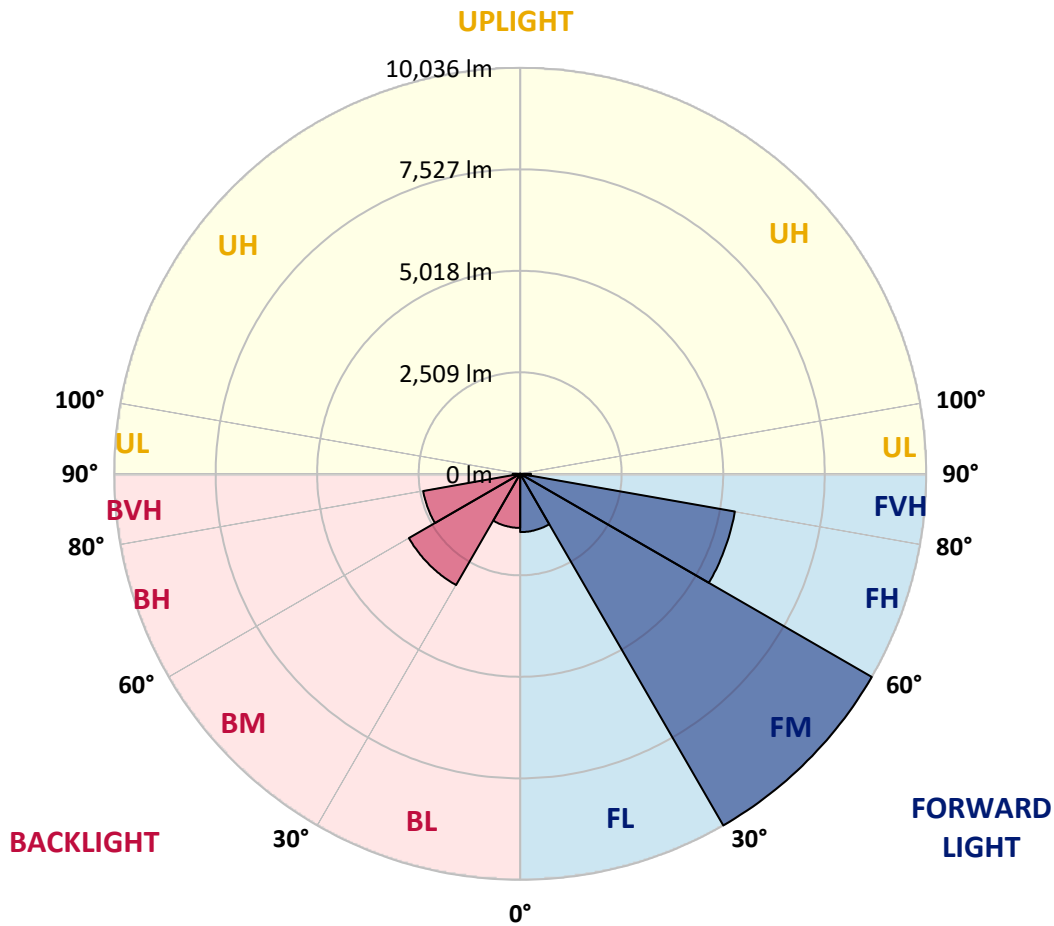
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.3	5.9			
FM (30°-60°)	10036.0	41.4			
FH (60°-80°)	5388.5	22.2			G3/7500
FVH (80°-90°)	268.2	1.1			G3/500
BL (0°-30°)	1336.6	5.5	B3/2500		
BM (30°-60°)	3175.5	13.1	B3/5000		
BH (60°-80°)	2433.9	10.0	B3/2500		G3/2500
BVH (80°-90°)	187.5	0.8			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0
2.5°	2611.9	2607.7	2607.7	2607.7	2607.7	2603.6	2607.7	2615.8	2611.9	2607.7	2615.8
5°	2619.9	2615.8	2615.8	2615.8	2619.9	2615.8	2619.9	2632.2	2624.0	2624.0	2632.2
7.5°	2640.2	2636.2	2640.2	2636.2	2636.2	2636.2	2640.2	2652.4	2648.3	2652.4	2664.7
10°	2664.7	2664.7	2664.7	2664.7	2664.7	2664.7	2672.7	2680.9	2684.9	2689.0	2705.3
12.5°	2737.7	2737.7	2737.7	2733.6	2733.6	2721.4	2737.7	2745.8	2754.0	2762.1	2774.3
15°	2892.1	2892.1	2888.0	2871.8	2871.8	2847.4	2851.4	2855.5	2855.5	2863.6	2871.8
17.5°	3095.2	3091.1	3083.0	3070.8	3054.6	3026.2	3018.0	3009.9	2997.6	2993.6	2993.6
20°	3379.5	3375.4	3359.1	3326.7	3306.4	3261.7	3229.1	3196.7	3184.6	3164.2	3160.1
22.5°	3785.8	3785.8	3753.2	3704.4	3688.1	3594.7	3501.3	3432.3	3407.9	3379.5	3379.5
25°	4277.2	4273.1	4228.5	4171.5	4102.4	4005.0	3891.3	3797.9	3737.0	3671.9	3647.6
27.5°	4866.2	4854.0	4793.1	4724.1	4594.1	4472.2	4338.1	4240.6	4135.0	4053.7	3980.7
30°	5556.7	5544.5	5438.9	5308.9	5174.8	5053.0	4858.0	4740.2	4573.7	4476.3	4395.0
32.5°	6356.9	6344.6	6153.8	6027.9	5885.7	5735.4	5503.8	5317.0	5105.8	4967.7	4854.0
35°	7376.4	7327.7	7055.5	6880.8	6657.5	6507.2	6263.5	6011.7	5763.9	5568.8	5402.4
37.5°	8477.2	8420.3	8180.7	7920.7	7701.3	7518.5	7173.3	6856.4	6564.1	6295.9	6088.8
40°	9626.8	9476.4	9220.5	9029.6	8879.3	8704.6	8343.1	8010.1	7551.1	7250.5	6937.8
42.5°	10422.8	10276.6	10097.8	9972.0	9898.9	9764.8	9561.8	9273.3	8863.1	8871.2	8046.6
45°	10946.8	10731.6	10609.7	10617.9	10646.2	10646.2	10609.7	10565.1	10386.3	10508.1	9817.6
47.5°	10760.0	10617.9	10540.7	10703.1	10906.1	11109.3	11344.9	11600.8	11893.2	12238.4	11389.6
50°	9663.2	9716.1	9752.6	10097.8	10532.5	10995.6	11535.8	12234.5	13050.9	13209.3	12799.0
52.5°	7912.5	8026.3	8148.1	8676.2	9248.9	10049.1	10995.6	12149.2	13245.8	13891.7	13851.2
55°	6145.7	6287.9	6547.8	6941.8	7396.8	8152.3	9322.1	11101.2	12811.2	13838.9	14464.4
57.5°	4374.6	4581.8	4923.0	5471.3	5873.6	6300.0	7165.2	9139.3	11011.8	12925.0	14362.9
60°	2908.4	3005.8	3229.1	3911.6	4590.0	5036.8	5650.2	6365.0	7896.3	10532.5	13314.9
62.5°	2063.5	2128.5	2266.6	2575.2	3188.6	3996.9	4366.5	4695.5	5187.1	6775.2	10690.9
63°	1949.7	2006.5	2120.2	2380.3	2932.7	3769.5	4147.2	4447.8	4805.2	6060.4	10114.1
65°	1616.6	1641.0	1701.9	1827.9	2124.3	2819.0	3436.4	3619.1	3680.1	3895.3	6336.6
67.5°	1364.7	1381.0	1401.4	1438.0	1555.8	1876.6	2563.1	2794.7	2725.6	2579.3	3131.7
70°	1186.1	1198.2	1230.8	1275.4	1316.0	1397.3	1762.9	2108.1	2030.9	1832.0	1917.2
72.5°	946.4	966.7	1003.3	1080.5	1161.8	1267.3	1356.7	1571.9	1523.2	1332.3	1352.6
75°	747.5	759.6	792.0	849.0	926.1	1048.1	1222.6	1295.7	1161.8	983.0	983.0
77.5°	593.1	605.2	633.7	678.4	727.1	812.4	934.2	1125.2	1043.9	739.2	735.2
80°	446.8	459.0	487.4	528.0	576.8	637.7	710.8	796.2	958.6	690.5	552.5
82.5°	329.0	333.0	381.9	410.3	426.5	475.3	536.1	584.9	658.1	637.7	491.4
85°	247.8	243.7	276.2	296.5	300.6	312.8	349.3	398.0	430.6	414.3	381.9
87.5°	138.1	121.9	142.1	162.5	162.5	166.5	174.7	203.1	231.5	223.4	203.1
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):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0
2.5°	2615.8	2615.8	2611.9	2611.9	2615.8	2615.8	2611.9	2624.0	2632.2	2632.2	2636.2
5°	2628.0	2632.2	2628.0	2628.0	2632.2	2632.2	2636.2	2648.3	2660.6	2668.6	2680.9
7.5°	2664.7	2668.6	2664.7	2664.7	2668.6	2672.7	2680.9	2697.1	2705.3	2721.4	2741.8
10°	2705.3	2709.3	2705.3	2709.3	2713.4	2717.4	2729.7	2741.8	2754.0	2770.3	2802.7
12.5°	2778.4	2782.4	2774.3	2778.4	2790.5	2790.5	2798.6	2806.8	2827.1	2847.4	2879.8
15°	2879.8	2879.8	2871.8	2875.8	2888.0	2888.0	2892.1	2900.2	2924.6	2948.9	2981.4
17.5°	2997.6	3005.8	3001.8	3005.8	3013.9	3018.0	3018.0	3026.2	3042.4	3058.6	3091.1
20°	3156.1	3160.1	3152.0	3160.1	3168.3	3160.1	3152.0	3148.0	3156.1	3164.2	3200.7
22.5°	3371.4	3367.3	3347.0	3347.0	3347.0	3330.8	3310.4	3286.1	3286.1	3273.9	3302.4
25°	3627.3	3615.1	3586.7	3590.7	3562.3	3538.0	3501.3	3464.8	3432.3	3420.2	3424.1
27.5°	3927.9	3903.5	3875.1	3866.9	3838.5	3793.8	3732.9	3663.8	3611.0	3570.4	3562.3
30°	4305.6	4252.8	4204.1	4196.0	4151.3	4078.1	3980.7	3887.2	3797.9	3728.8	3704.4
32.5°	4752.4	4671.2	4594.1	4585.9	4512.7	4415.2	4297.5	4167.4	4037.5	3927.9	3875.1
35°	5276.4	5154.6	5081.4	5061.1	4955.6	4833.6	4703.7	4537.1	4354.3	4200.0	4102.4
37.5°	5914.1	5788.2	5662.3	5666.4	5520.1	5378.0	5203.3	5000.2	4768.6	4553.4	4415.2
40°	6702.2	6523.5	6361.0	6324.4	6198.5	5999.4	5808.6	5572.9	5288.5	5004.3	4805.2
42.5°	7656.7	7364.2	7140.8	7108.3	6941.8	6698.0	6466.5	6153.8	5865.4	5520.1	5280.5
45°	8741.2	8274.1	8006.0	7957.3	7689.2	7441.4	7161.2	6828.0	6474.7	6084.7	5800.3
47.5°	10089.8	9423.6	8968.6	8887.4	8517.9	8192.8	7900.4	7530.8	7108.3	6673.7	6361.0
50°	11661.7	10678.8	10065.4	9939.5	9444.0	9062.1	8688.4	8225.4	7774.5	7319.5	6958.0
52.5°	13237.8	12181.7	11365.1	11210.9	10479.7	9967.9	9476.4	9013.4	8481.2	8030.3	7620.2
55°	14505.0	13802.2	12855.9	12640.6	11592.6	10898.1	10252.3	9724.2	9196.2	8838.7	8355.4
57.5°	15268.7	15232.2	14484.7	14188.2	12754.4	11726.7	11007.8	10406.6	9894.7	9744.5	9102.7
60°	15248.3	16194.9	15874.0	15650.6	13928.3	12575.6	11641.3	10991.5	10569.0	10739.6	9854.2
62.5°	14318.2	16235.4	16621.3	16560.3	15179.3	13258.1	12161.3	11491.2	11267.7	11775.4	10634.1
63°	13981.1	16142.0	16653.9	16629.4	15419.0	13388.0	12250.7	11588.6	11405.8	12039.5	10776.2
65°	11816.1	15325.6	16259.8	16369.4	15934.8	13834.9	12457.8	11836.4	11816.1	12628.4	11113.5
67.5°	7201.8	12949.3	14484.7	14695.9	15207.8	13977.0	12340.1	11751.1	12043.5	12713.7	11011.8
70°	3078.9	8546.3	11641.3	11982.6	13233.7	13270.2	12002.9	11401.8	11990.7	12047.6	10288.8
72.5°	1823.7	4029.4	7924.8	8668.1	10471.6	11418.0	11231.2	10792.5	11296.1	10581.2	8761.5
75°	1291.7	1884.7	4025.3	4817.5	7291.1	8716.8	9435.8	9638.9	9618.5	8391.8	6576.2
77.5°	926.1	1210.5	1697.9	2002.5	4070.0	5597.4	6474.7	7067.7	6876.8	5617.6	4053.7
80°	645.8	836.7	1039.8	1104.8	1888.8	2875.8	3411.9	3671.9	3558.2	2806.8	1815.7
82.5°	467.1	548.4	670.2	710.8	950.4	1328.3	1580.1	1393.3	1336.4	1035.8	783.9
85°	361.5	353.4	418.4	434.7	556.4	694.6	710.8	552.5	483.4	430.6	438.6
87.5°	255.8	219.4	223.4	231.5	288.5	369.7	361.5	227.5	194.9	207.1	235.6
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0	2628.0
2.5°	2644.3	2648.3	2656.5	2660.6	2668.6	2668.6	2676.8	2680.9	2689.0	2697.1	2701.2
5°	2693.0	2705.3	2721.4	2729.7	2745.8	2758.0	2774.3	2782.4	2798.6	2810.8	2827.1
7.5°	2766.1	2786.4	2806.8	2831.1	2855.5	2875.8	2892.1	2912.5	2940.8	2961.2	2973.3
10°	2835.2	2863.6	2900.2	2928.5	2965.2	2993.6	3018.0	3054.6	3087.0	3115.5	3131.7
12.5°	2924.6	2961.2	2997.6	3042.4	3091.1	3127.6	3164.2	3213.0	3257.7	3290.2	3306.4
15°	3030.2	3074.9	3115.5	3168.3	3225.2	3273.9	3326.7	3379.5	3411.9	3411.9	3403.9
17.5°	3139.9	3176.3	3225.2	3286.1	3363.2	3424.1	3452.6	3460.8	3448.6	3420.2	3399.8
20°	3249.5	3282.0	3334.8	3407.9	3489.2	3501.3	3473.0	3436.4	3399.8	3351.1	3318.5
22.5°	3338.9	3383.5	3464.8	3550.1	3554.2	3485.2	3407.9	3347.0	3290.2	3233.3	3172.4
25°	3444.5	3505.5	3615.1	3647.6	3541.9	3411.9	3302.4	3213.0	3119.6	3026.2	2957.1
27.5°	3574.5	3663.8	3773.5	3680.1	3473.0	3290.2	3139.9	3005.8	2883.9	2754.0	2676.8
30°	3712.6	3850.8	3875.1	3631.3	3355.2	3119.6	2916.4	2713.4	2559.0	2441.2	2396.5
32.5°	3879.1	4057.9	3911.6	3546.0	3196.7	2888.0	2615.8	2372.1	2242.2	2169.1	2148.7
35°	4131.0	4277.2	3931.9	3456.6	3013.9	2611.9	2270.6	2075.6	1994.4	1945.7	1921.4
37.5°	4492.4	4488.4	3927.9	3347.0	2802.7	2311.3	1994.4	1856.4	1791.3	1750.7	1706.0
40°	4914.9	4650.8	3903.5	3188.6	2518.4	2022.8	1803.5	1673.6	1612.5	1563.8	1511.0
42.5°	5333.3	4760.5	3834.5	2953.0	2165.0	1815.7	1665.3	1547.5	1482.6	1429.7	1356.7
45°	5694.8	4805.2	3700.4	2628.0	1848.1	1653.2	1576.1	1474.5	1397.3	1316.0	1259.2
47.5°	5979.1	4797.1	3485.2	2246.3	1636.9	1539.5	1502.9	1433.8	1340.4	1238.9	1165.8
50°	6218.8	4736.2	3192.7	1909.1	1494.7	1438.0	1425.8	1405.4	1255.2	1169.8	1125.2
52.5°	6438.1	4646.8	2879.8	1681.6	1373.0	1324.2	1348.6	1328.3	1222.6	1149.5	1104.8
55°	6738.7	4585.9	2571.2	1507.0	1230.8	1218.6	1238.9	1267.3	1202.3	1133.2	1084.5
57.5°	7092.1	4618.4	2335.6	1311.9	1096.8	1104.8	1173.9	1214.5	1181.9	1108.9	1060.2
60°	7498.3	4715.8	2128.5	1125.2	987.0	1007.4	1108.9	1165.8	1161.8	1076.4	1019.5
62.5°	7953.2	4817.5	1799.4	983.0	893.6	926.1	1031.7	1104.8	1117.0	1043.9	974.8
63°	8042.6	4825.6	1714.2	954.6	877.4	914.0	1011.4	1088.5	1104.8	1035.8	966.7
65°	8261.8	4752.4	1381.0	877.4	812.4	853.0	950.4	1019.5	1052.0	991.1	934.2
67.5°	8079.0	4155.3	1039.8	783.9	759.6	788.0	873.3	938.3	966.7	938.3	881.4
70°	7388.5	3022.0	812.4	698.6	702.7	723.0	788.0	849.0	881.4	873.3	820.5
72.5°	5950.7	1714.2	678.4	625.5	637.7	662.1	706.8	763.6	792.0	788.0	751.4
75°	3919.7	877.4	572.7	560.5	568.7	589.0	621.4	666.2	698.6	694.6	678.4
77.5°	1941.5	609.3	491.4	495.6	499.7	515.8	540.3	580.8	601.2	605.2	601.2
80°	800.3	475.3	422.4	426.5	430.6	442.7	459.0	495.6	507.7	515.8	520.0
82.5°	479.3	361.5	337.2	345.3	349.3	361.5	373.6	406.2	418.4	430.6	430.6
85°	316.9	251.9	243.7	251.9	259.9	268.1	272.2	292.5	312.8	329.0	337.2
87.5°	170.6	150.3	146.2	150.3	150.3	158.4	166.5	186.9	211.2	227.5	235.6
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):

	160°	165°	170°	175°	180°
0°	2628.0	2628.0	2628.0	2628.0	2628.0
2.5°	2693.0	2697.1	2693.0	2697.1	2701.2
5°	2827.1	2835.2	2831.1	2831.1	2847.4
7.5°	2981.4	2997.6	2997.6	3005.8	3013.9
10°	3148.0	3164.2	3176.3	3176.3	3188.6
12.5°	3314.5	3322.7	3334.8	3334.8	3334.8
15°	3399.8	3395.8	3391.7	3387.6	3387.6
17.5°	3387.6	3371.4	3363.2	3355.2	3359.1
20°	3298.2	3269.8	3261.7	3249.5	3257.7
22.5°	3143.9	3103.3	3087.0	3066.7	3074.9
25°	2912.5	2863.6	2855.5	2831.1	2843.4
27.5°	2644.3	2619.9	2615.8	2611.9	2632.2
30°	2392.4	2400.5	2404.7	2412.8	2433.1
32.5°	2160.9	2177.2	2181.3	2185.3	2213.7
35°	1933.5	1913.1	1933.5	1925.3	1949.7
37.5°	1685.7	1669.5	1653.2	1632.9	1649.2
40°	1478.5	1450.1	1401.4	1377.0	1381.0
42.5°	1316.0	1279.5	1238.9	1214.5	1214.5
45°	1210.5	1165.8	1129.2	1113.0	1113.0
47.5°	1129.2	1108.9	1088.5	1076.4	1076.4
50°	1096.8	1072.4	1060.2	1052.0	1052.0
52.5°	1072.4	1048.1	1035.8	1027.7	1019.5
55°	1052.0	1015.4	1003.3	999.1	999.1
57.5°	1023.6	991.1	974.8	970.8	970.8
60°	979.0	954.6	938.3	934.2	934.2
62.5°	934.2	909.9	893.6	893.6	893.6
63°	926.1	897.7	885.5	885.5	885.5
65°	889.6	861.1	849.0	849.0	844.9
67.5°	840.9	812.4	804.2	804.2	796.2
70°	783.9	759.6	751.4	755.5	739.2
72.5°	727.1	702.7	690.5	690.5	674.2
75°	662.1	637.7	621.4	617.5	601.2
77.5°	589.0	568.7	552.5	536.1	528.0
80°	511.8	495.6	475.3	463.0	450.9
82.5°	430.6	414.3	402.1	418.4	357.5
85°	337.2	320.9	304.7	329.0	255.8
87.5°	247.8	239.6	223.4	194.9	170.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)