

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: P257940

Luminaire Tested: **ARCH-L-AF72-240-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257940
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-AF72-240-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26617.7 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

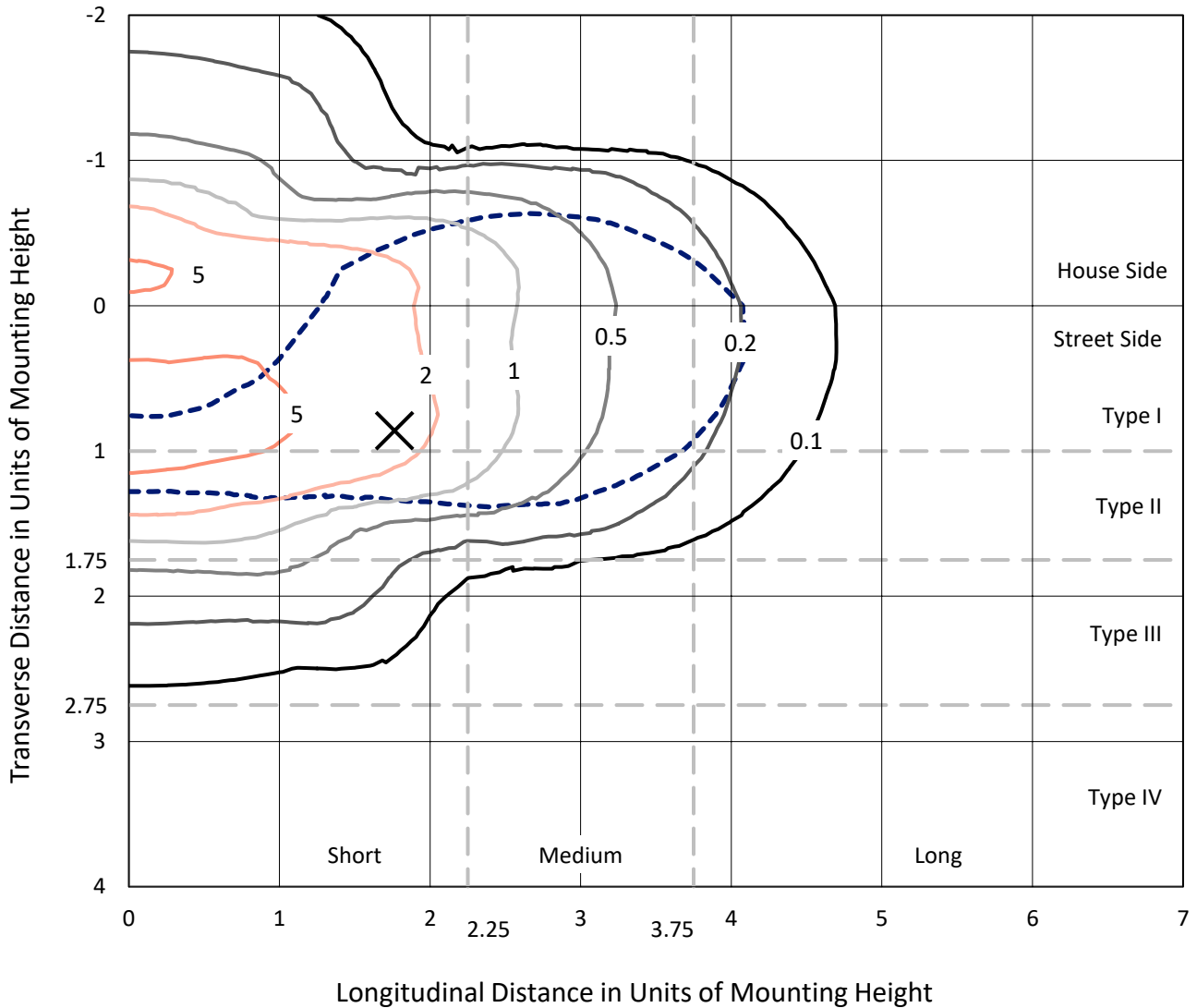
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

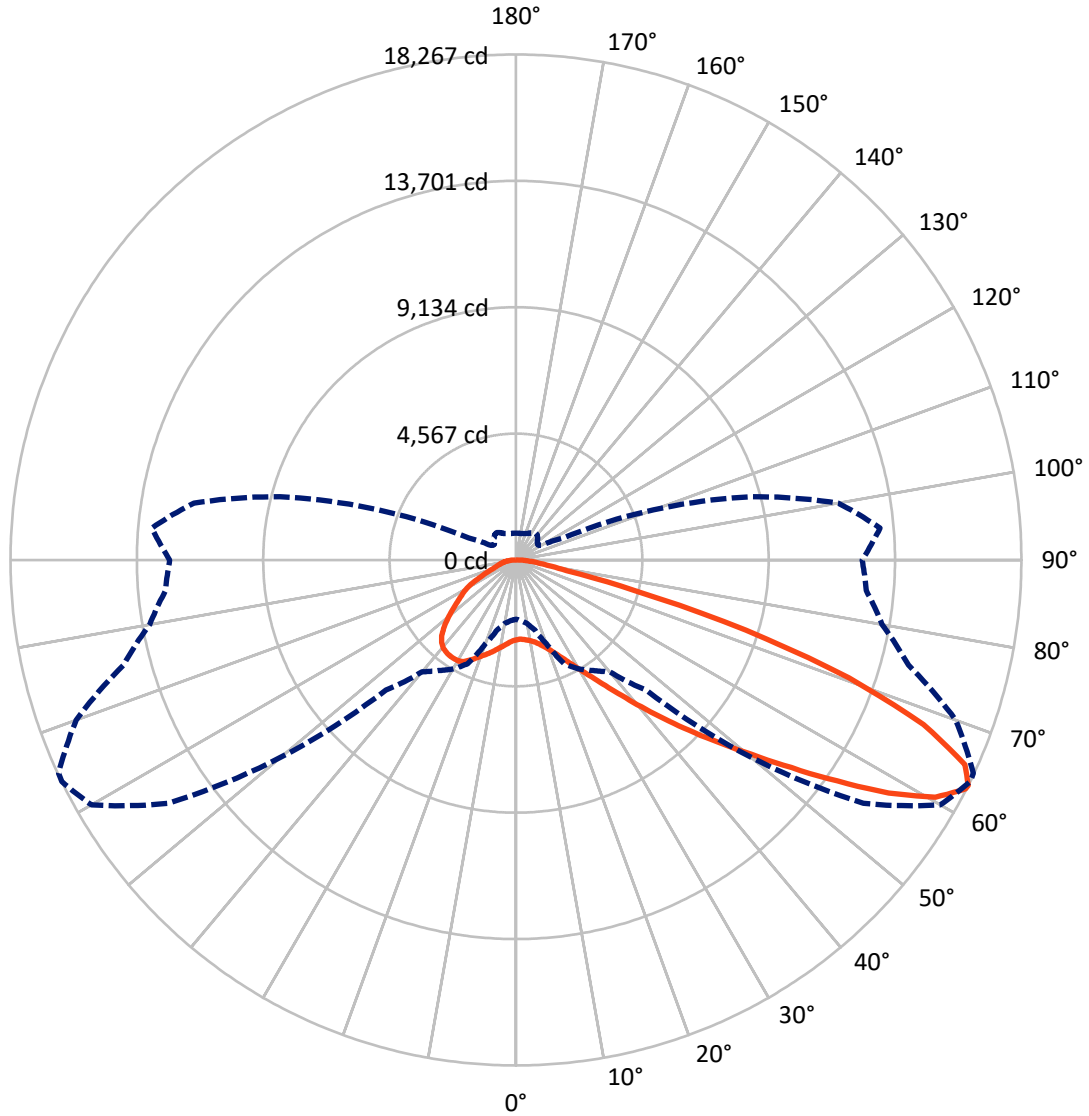
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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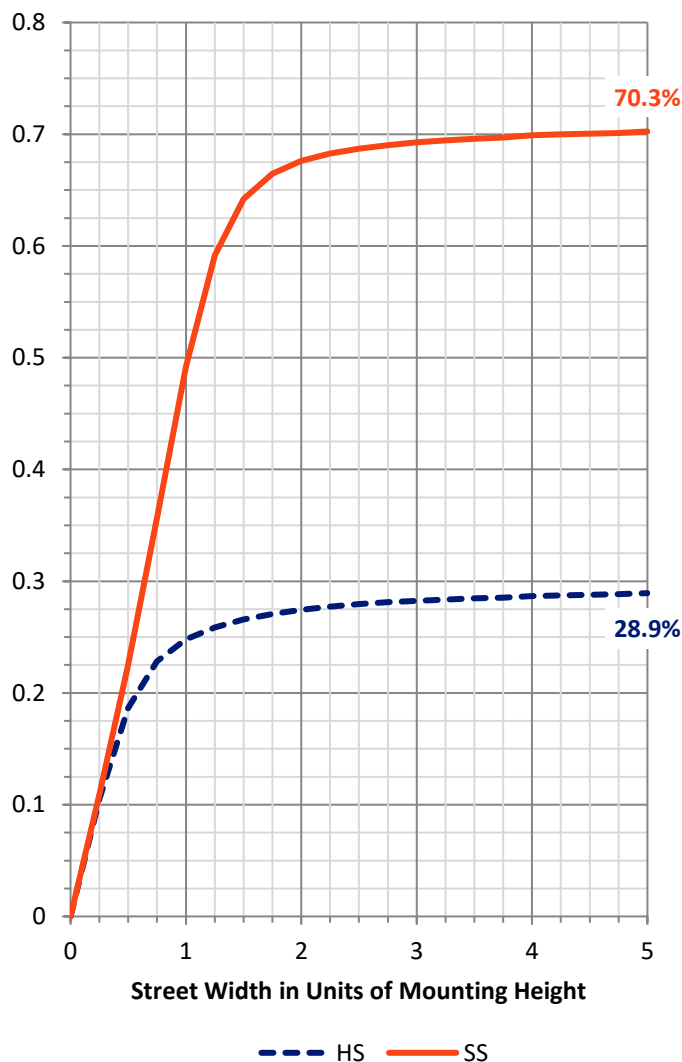
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7824.7	0.0	7824.7
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	18793.1	0.0	18793.1
	% Fixture	70.6	0.0	70.6
Total	Lumens	26617.7	0.0	26617.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	1.1
10°-20°	958.6	3.6
20°-30°	1799.5	6.8
30°-40°	3016.1	11.3
40°-50°	5060.4	19.0
50°-60°	6415.1	24.1
60°-70°	5659.1	21.3
70°-80°	2921.3	11.0
80°-90°	499.9	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°	26617.7	100.0
0°-180°	26617.7	100.0

Coefficient of Utilization

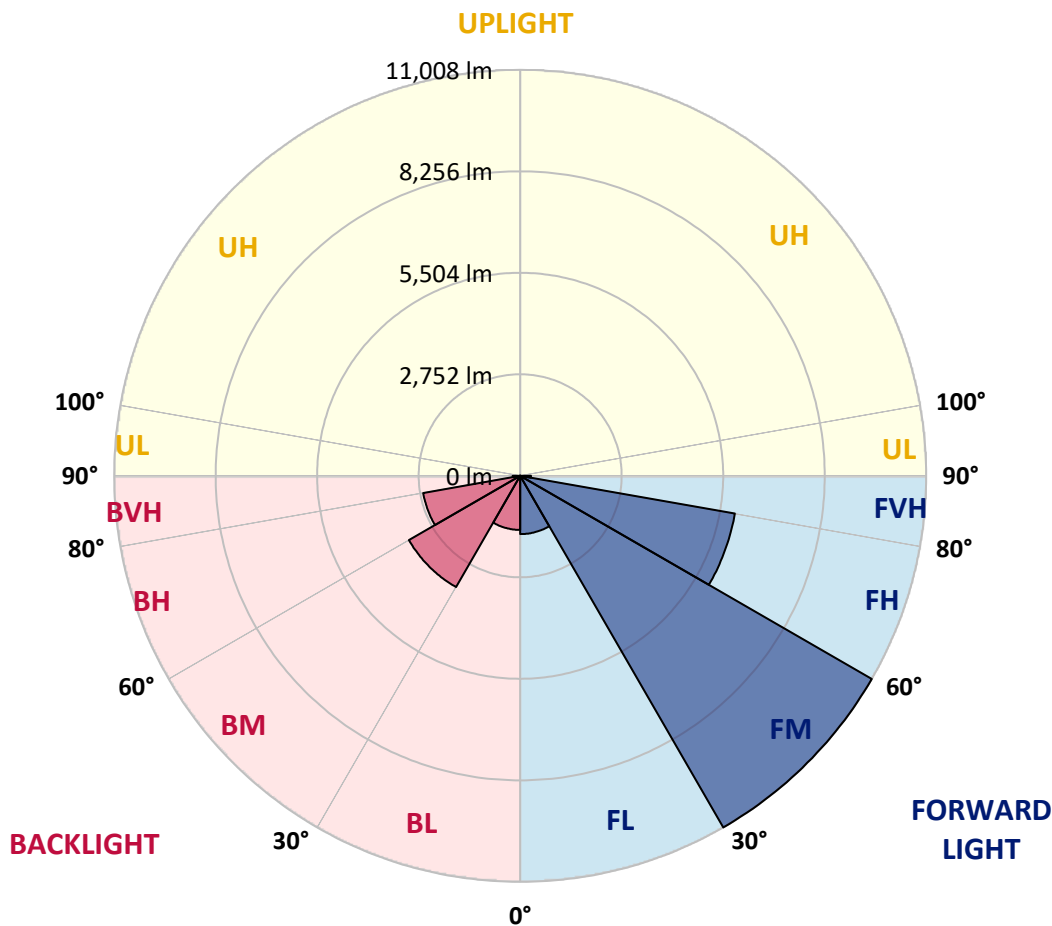


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.9	5.9			
FM (30°-60°)	11008.4	41.4			
FH (60°-80°)	5910.6	22.2			G3/7500
FVH (80°-90°)	294.2	1.1			G3/500
BL (0°-30°)	1466.1	5.5	B3/2500		
BM (30°-60°)	3483.2	13.1	B3/5000		
BH (60°-80°)	2669.7	10.0	B4/5000		G4/5000
BVH (80°-90°)	205.7	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7
2.5°	2864.9	2860.4	2860.4	2860.4	2860.4	2855.9	2860.4	2869.3	2864.9	2860.4	2869.3
5°	2873.7	2869.3	2869.3	2869.3	2873.7	2869.3	2873.7	2887.1	2878.2	2878.2	2887.1
7.5°	2896.0	2891.6	2896.0	2891.6	2891.6	2891.6	2896.0	2909.5	2904.9	2909.5	2922.8
10°	2922.8	2922.8	2922.8	2922.8	2922.8	2922.8	2931.8	2940.6	2945.1	2949.6	2967.4
12.5°	3003.0	3003.0	3003.0	2998.5	2998.5	2985.2	3003.0	3012.0	3020.8	3029.8	3043.1
15°	3172.4	3172.4	3167.9	3150.1	3150.1	3123.2	3127.8	3132.3	3132.3	3141.1	3150.1
17.5°	3395.1	3390.7	3381.7	3368.4	3350.6	3319.3	3310.4	3301.5	3288.1	3283.7	3283.7
20°	3706.9	3702.5	3684.7	3649.0	3626.8	3577.7	3542.0	3506.4	3493.1	3470.8	3466.4
22.5°	4152.5	4152.5	4116.9	4063.4	4045.6	3943.0	3840.6	3764.8	3738.1	3706.9	3706.9
25°	4691.6	4687.1	4638.2	4575.8	4500.1	4393.1	4268.3	4165.8	4099.1	4027.8	4001.0
27.5°	5337.7	5324.3	5257.4	5181.7	5039.1	4905.5	4758.5	4651.5	4535.7	4446.6	4366.3
30°	6095.1	6081.7	5965.9	5823.3	5676.2	5542.6	5328.8	5199.5	5016.8	4909.9	4820.8
32.5°	6972.8	6959.5	6750.0	6612.0	6456.0	6291.1	6037.1	5832.3	5600.5	5449.1	5324.3
35°	8091.0	8037.6	7739.2	7547.5	7302.6	7137.7	6870.3	6594.2	6322.3	6108.4	5925.7
37.5°	9298.6	9236.2	8973.4	8688.2	8447.6	8247.1	7868.5	7520.9	7200.0	6905.9	6678.8
40°	10559.5	10394.6	10113.9	9904.5	9739.7	9548.0	9151.5	8786.2	8282.7	7953.0	7609.9
42.5°	11432.8	11272.4	11076.2	10938.2	10857.9	10710.9	10488.3	10171.8	9721.9	9730.7	8826.3
45°	12007.5	11771.4	11637.6	11646.6	11677.7	11677.7	11637.6	11588.7	11392.7	11526.3	10768.9
47.5°	11802.5	11646.6	11562.0	11740.1	11962.9	12185.6	12444.1	12724.9	13045.7	13424.3	12493.1
50°	10599.6	10657.4	10697.6	11076.2	11553.1	12060.9	12653.6	13419.9	14315.4	14489.2	14039.2
52.5°	8679.2	8804.0	8937.6	9516.9	10145.2	11022.8	12060.9	13326.4	14529.3	15237.8	15193.1
55°	6741.1	6897.1	7182.2	7614.4	8113.4	8942.1	10225.3	12176.8	14052.6	15179.8	15866.0
57.5°	4798.5	5025.8	5400.0	6001.5	6442.6	6910.4	7859.4	10024.9	12078.8	14177.3	15754.5
60°	3190.2	3297.0	3542.0	4290.6	5034.6	5524.8	6197.5	6981.7	8661.4	11553.1	14605.0
62.5°	2263.5	2334.7	2486.2	2824.8	3497.5	4384.1	4789.6	5150.5	5689.6	7431.7	11726.8
63°	2138.6	2201.0	2325.8	2610.9	3216.8	4134.7	4549.0	4878.8	5270.7	6647.6	11094.0
65°	1773.3	1800.0	1866.8	2005.0	2330.2	3092.1	3769.3	3969.8	4036.7	4272.8	6950.5
67.5°	1497.1	1514.9	1537.2	1577.2	1706.4	2058.5	2811.3	3065.4	2989.7	2829.3	3435.2
70°	1301.0	1314.4	1350.0	1399.1	1443.6	1532.7	1933.7	2312.4	2227.7	2009.4	2103.0
72.5°	1038.1	1060.4	1100.5	1185.1	1274.3	1390.1	1488.1	1724.2	1670.8	1461.4	1483.6
75°	819.8	833.2	868.8	931.2	1015.9	1149.5	1341.0	1421.3	1274.3	1078.2	1078.2
77.5°	650.5	663.9	695.1	744.0	797.5	891.1	1024.8	1234.2	1145.0	810.9	806.5
80°	490.1	503.4	534.6	579.2	632.7	699.5	779.7	873.3	1051.5	757.3	606.0
82.5°	360.9	365.4	418.8	450.0	467.8	521.2	588.2	641.6	721.7	699.5	539.0
85°	271.8	267.3	302.9	325.3	329.8	343.1	383.2	436.6	472.3	454.4	418.8
87.5°	151.5	133.7	155.9	178.2	178.2	182.7	191.5	222.8	253.9	245.1	222.8
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°	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7
2.5°	2869.3	2869.3	2864.9	2864.9	2869.3	2869.3	2864.9	2878.2	2887.1	2887.1	2891.6
5°	2882.7	2887.1	2882.7	2882.7	2887.1	2887.1	2891.6	2904.9	2918.4	2927.3	2940.6
7.5°	2922.8	2927.3	2922.8	2922.8	2927.3	2931.8	2940.6	2958.4	2967.4	2985.2	3007.5
10°	2967.4	2971.9	2967.4	2971.9	2976.2	2980.7	2994.0	3007.5	3020.8	3038.6	3074.2
12.5°	3047.6	3052.0	3043.1	3047.6	3060.9	3060.9	3069.8	3078.7	3101.0	3123.2	3158.9
15°	3158.9	3158.9	3150.1	3154.5	3167.9	3167.9	3172.4	3181.2	3208.0	3234.6	3270.3
17.5°	3288.1	3297.0	3292.6	3297.0	3305.9	3310.4	3310.4	3319.3	3337.1	3355.1	3390.7
20°	3461.9	3466.4	3457.4	3466.4	3475.3	3466.4	3457.4	3453.0	3461.9	3470.8	3510.9
22.5°	3698.0	3693.6	3671.3	3671.3	3671.3	3653.5	3631.2	3604.5	3604.5	3591.2	3622.3
25°	3978.7	3965.3	3934.2	3938.7	3907.4	3880.7	3840.6	3800.5	3764.8	3751.5	3756.0
27.5°	4308.4	4281.8	4250.5	4241.7	4210.5	4161.3	4094.6	4018.9	3960.8	3916.4	3907.4
30°	4722.8	4665.0	4611.4	4602.5	4553.5	4473.3	4366.3	4263.9	4165.8	4090.1	4063.4
32.5°	5212.9	5123.8	5039.1	5030.2	4950.0	4843.1	4713.9	4571.3	4428.8	4308.4	4250.5
35°	5787.7	5653.9	5573.8	5551.6	5435.6	5302.1	5159.4	4976.8	4776.3	4606.9	4500.1
37.5°	6487.2	6349.0	6211.0	6215.4	6055.0	5899.0	5707.4	5484.7	5230.7	4994.6	4843.1
40°	7351.5	7155.5	6977.3	6937.2	6799.1	6580.6	6371.4	6112.9	5801.0	5489.1	5270.7
42.5°	8398.5	8077.7	7832.7	7797.1	7614.4	7347.0	7093.1	6750.0	6433.7	6055.0	5792.2
45°	9588.1	9075.8	8781.7	8728.2	8434.2	8162.4	7854.9	7489.6	7102.1	6674.3	6362.3
47.5°	11067.4	10336.7	9837.7	9748.5	9343.1	8986.7	8665.9	8260.4	7797.1	7320.4	6977.3
50°	12791.6	11713.4	11040.6	10902.6	10359.0	9940.2	9530.2	9022.3	8527.8	8028.8	7632.2
52.5°	14520.3	13362.0	12466.4	12297.1	11495.1	10933.7	10394.6	9886.7	9303.0	8808.5	8358.5
55°	15910.5	15139.7	14101.5	13865.4	12715.9	11954.0	11245.6	10666.4	10087.2	9695.1	9164.8
57.5°	16748.2	16708.0	15888.3	15563.0	13990.2	12863.0	12074.4	11415.0	10853.5	10688.8	9984.6
60°	16725.9	17763.9	17412.0	17167.0	15277.8	13794.1	12769.3	12056.5	11593.2	11780.3	10809.0
62.5°	15705.6	17808.5	18231.8	18165.0	16650.1	14542.6	13339.7	12604.4	12359.5	12916.4	11664.4
63°	15335.7	17706.0	18267.4	18240.8	16913.0	14685.2	13437.7	12711.4	12510.9	13206.0	11820.3
65°	12961.0	16810.5	17835.3	17955.5	17478.9	15175.3	13664.9	12983.3	12961.0	13852.1	12190.2
67.5°	7899.6	14204.0	15888.3	16119.9	16681.2	15331.3	13535.7	12889.7	13210.4	13945.7	12078.8
70°	3377.2	9374.3	12769.3	13143.7	14515.9	14556.1	13166.0	12506.5	13152.5	13214.9	11285.7
72.5°	2000.5	4419.9	8692.6	9508.0	11486.2	12524.3	12319.4	11838.2	12390.6	11606.5	9610.5
75°	1416.9	2067.3	4415.3	5284.3	7997.6	9561.5	10350.0	10572.8	10550.5	9205.0	7213.4
77.5°	1015.9	1327.7	1862.5	2196.5	4464.4	6139.6	7102.1	7752.5	7543.2	6161.9	4446.6
80°	708.4	917.8	1140.5	1211.9	2071.8	3154.5	3742.5	4027.8	3903.0	3078.7	1991.6
82.5°	512.4	601.5	735.2	779.7	1042.6	1457.0	1733.2	1528.2	1465.8	1136.2	859.9
85°	396.5	387.7	458.9	476.7	610.4	761.9	779.7	606.0	530.2	472.3	481.2
87.5°	280.7	240.6	245.1	253.9	316.3	405.5	396.5	249.5	213.8	227.3	258.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7	2882.7
2.5°	2900.5	2904.9	2913.8	2918.4	2927.3	2927.3	2936.2	2940.6	2949.6	2958.4	2962.9
5°	2954.0	2967.4	2985.2	2994.0	3012.0	3025.3	3043.1	3052.0	3069.8	3083.2	3101.0
7.5°	3034.1	3056.4	3078.7	3105.4	3132.3	3154.5	3172.4	3194.5	3225.8	3248.1	3261.4
10°	3109.9	3141.1	3181.2	3212.4	3252.5	3283.7	3310.4	3350.6	3386.2	3417.3	3435.2
12.5°	3208.0	3248.1	3288.1	3337.1	3390.7	3430.7	3470.8	3524.2	3573.4	3609.0	3626.8
15°	3323.7	3372.9	3417.3	3475.3	3537.6	3591.2	3649.0	3706.9	3742.5	3742.5	3733.7
17.5°	3444.1	3484.2	3537.6	3604.5	3689.1	3756.0	3787.2	3796.1	3782.7	3751.5	3729.2
20°	3564.4	3600.0	3657.9	3738.1	3827.3	3840.6	3809.5	3769.3	3729.2	3675.8	3640.1
22.5°	3662.4	3711.4	3800.5	3894.1	3898.6	3822.8	3738.1	3671.3	3609.0	3546.5	3479.7
25°	3778.3	3845.1	3965.3	4001.0	3885.2	3742.5	3622.3	3524.2	3421.8	3319.3	3243.6
27.5°	3920.8	4018.9	4139.2	4036.7	3809.5	3609.0	3444.1	3297.0	3163.4	3020.8	2936.2
30°	4072.3	4223.8	4250.5	3983.1	3680.2	3421.8	3199.0	2976.2	2807.0	2677.7	2628.8
32.5°	4255.0	4451.0	4290.6	3889.6	3506.4	3167.9	2869.3	2602.0	2459.4	2379.2	2356.9
35°	4531.2	4691.6	4312.9	3791.7	3305.9	2864.9	2490.6	2276.8	2187.6	2134.2	2107.4
37.5°	4927.7	4923.3	4308.4	3671.3	3074.2	2535.2	2187.6	2036.1	1964.8	1920.3	1871.3
40°	5391.1	5101.6	4281.8	3497.5	2762.4	2218.8	1978.2	1835.7	1768.8	1715.4	1657.5
42.5°	5850.1	5221.8	4205.9	3239.1	2374.8	1991.6	1826.7	1697.6	1626.3	1568.3	1488.1
45°	6246.6	5270.7	4059.0	2882.7	2027.2	1813.3	1728.7	1617.4	1532.7	1443.6	1381.1
47.5°	6558.5	5261.9	3822.8	2463.9	1795.5	1688.6	1648.5	1572.8	1470.3	1358.9	1278.8
50°	6821.3	5195.1	3502.0	2094.1	1639.7	1577.2	1563.8	1541.5	1376.7	1283.1	1234.2
52.5°	7062.0	5097.1	3158.9	1844.6	1505.9	1452.5	1479.3	1457.0	1341.0	1260.9	1211.9
55°	7391.6	5030.2	2820.3	1653.0	1350.0	1336.7	1358.9	1390.1	1318.9	1243.1	1189.7
57.5°	7779.3	5066.0	2561.9	1439.2	1203.0	1211.9	1287.6	1332.2	1296.6	1216.4	1162.8
60°	8224.8	5172.8	2334.7	1234.2	1082.6	1104.9	1216.4	1278.8	1274.3	1180.6	1118.4
62.5°	8723.8	5284.3	1973.8	1078.2	980.2	1015.9	1131.7	1211.9	1225.3	1145.0	1069.3
63°	8821.8	5293.1	1880.3	1047.0	962.3	1002.5	1109.4	1194.1	1211.9	1136.2	1060.4
65°	9062.4	5212.9	1514.9	962.3	891.1	935.7	1042.6	1118.4	1154.0	1087.1	1024.8
67.5°	8861.9	4558.0	1140.5	859.9	833.2	864.4	957.8	1029.2	1060.4	1029.2	966.8
70°	8104.6	3314.8	891.1	766.4	770.9	793.1	864.4	931.2	966.8	957.8	900.0
72.5°	6527.2	1880.3	744.0	686.1	699.5	726.2	775.3	837.6	868.8	864.4	824.3
75°	4299.6	962.3	628.2	614.8	623.8	646.0	681.7	730.7	766.4	761.9	744.0
77.5°	2129.7	668.3	539.0	543.6	548.1	565.9	592.6	637.1	659.4	663.9	659.4
80°	877.7	521.2	463.4	467.8	472.3	485.6	503.4	543.6	556.9	565.9	570.4
82.5°	525.7	396.5	369.9	378.7	383.2	396.5	409.9	445.6	458.9	472.3	472.3
85°	347.6	276.2	267.3	276.2	285.1	294.0	298.5	320.7	343.1	360.9	369.9
87.5°	187.2	164.9	160.4	164.9	164.9	173.7	182.7	205.0	231.7	249.5	258.4
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):

	160°	165°	170°	175°	180°
0°	2882.7	2882.7	2882.7	2882.7	2882.7
2.5°	2954.0	2958.4	2954.0	2958.4	2962.9
5°	3101.0	3109.9	3105.4	3105.4	3123.2
7.5°	3270.3	3288.1	3288.1	3297.0	3305.9
10°	3453.0	3470.8	3484.2	3484.2	3497.5
12.5°	3635.7	3644.6	3657.9	3657.9	3657.9
15°	3729.2	3724.7	3720.3	3715.9	3715.9
17.5°	3715.9	3698.0	3689.1	3680.2	3684.7
20°	3617.8	3586.7	3577.7	3564.4	3573.4
22.5°	3448.6	3404.0	3386.2	3363.9	3372.9
25°	3194.5	3141.1	3132.3	3105.4	3118.8
27.5°	2900.5	2873.7	2869.3	2864.9	2887.1
30°	2624.3	2633.1	2637.6	2646.6	2668.8
32.5°	2370.3	2388.1	2392.6	2397.0	2428.2
35°	2120.8	2098.6	2120.8	2111.9	2138.6
37.5°	1849.0	1831.1	1813.3	1791.1	1808.9
40°	1621.9	1590.6	1537.2	1510.4	1514.9
42.5°	1443.6	1403.4	1358.9	1332.2	1332.2
45°	1327.7	1278.8	1238.7	1220.8	1220.8
47.5°	1238.7	1216.4	1194.1	1180.6	1180.6
50°	1203.0	1176.2	1162.8	1154.0	1154.0
52.5°	1176.2	1149.5	1136.2	1127.2	1118.4
55°	1154.0	1113.9	1100.5	1096.1	1096.1
57.5°	1122.7	1087.1	1069.3	1064.8	1064.8
60°	1073.8	1047.0	1029.2	1024.8	1024.8
62.5°	1024.8	998.0	980.2	980.2	980.2
63°	1015.9	984.7	971.4	971.4	971.4
65°	975.8	944.5	931.2	931.2	926.7
67.5°	922.2	891.1	882.2	882.2	873.3
70°	859.9	833.2	824.3	828.7	810.9
72.5°	797.5	770.9	757.3	757.3	739.5
75°	726.2	699.5	681.7	677.2	659.4
77.5°	646.0	623.8	606.0	588.2	579.2
80°	561.4	543.6	521.2	507.9	494.5
82.5°	472.3	454.4	441.1	458.9	392.1
85°	369.9	352.1	334.2	360.9	280.7
87.5°	271.8	262.9	245.1	213.8	187.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)