

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: P257976

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2U-7050**

Issue Date: 8/21/2018

Test Information

Test Method: LM-79-08
Report Number: P257976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/21/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T2U-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24345 lumens
Efficiency: N/A
Efficacy: 121.1 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

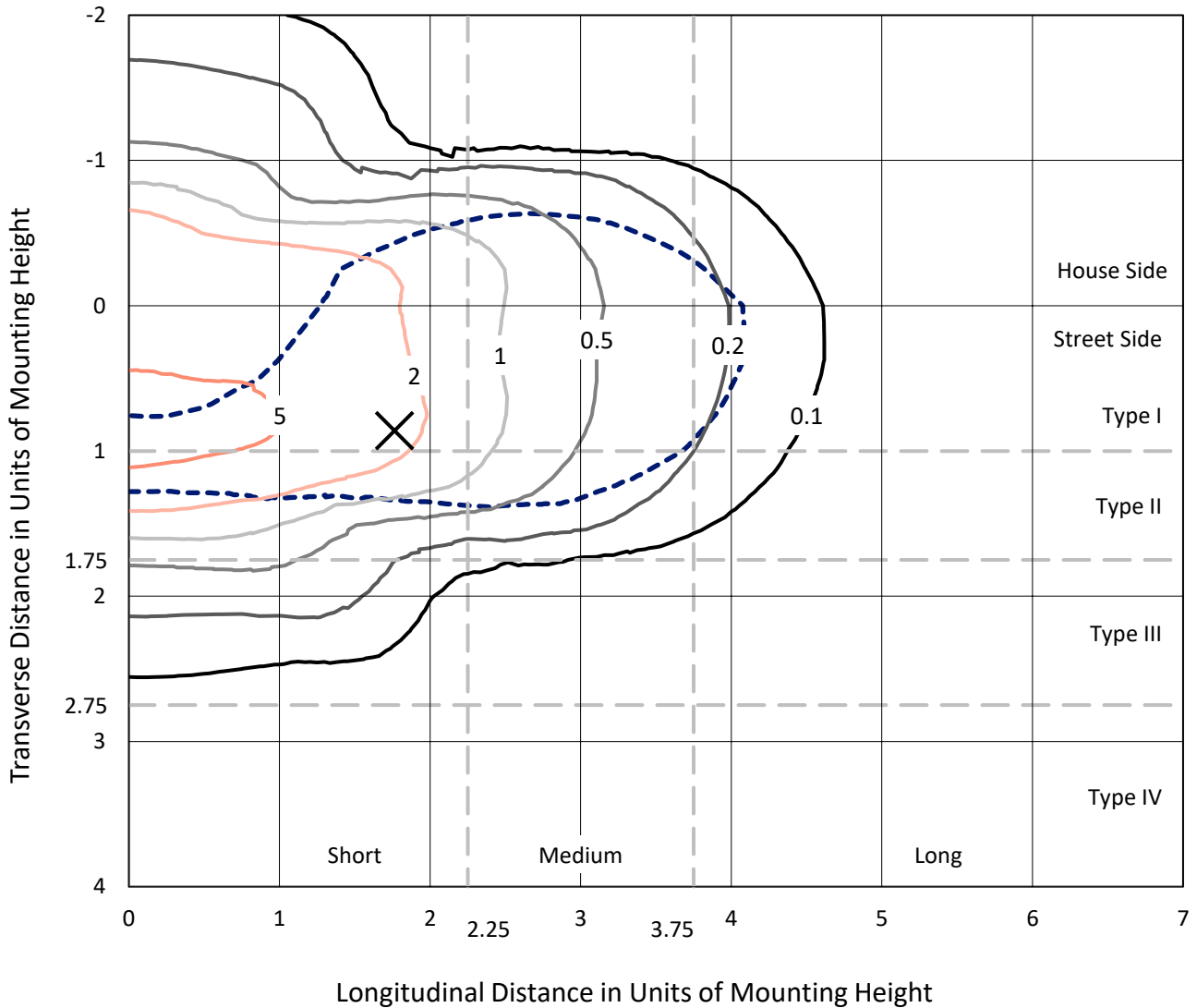
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

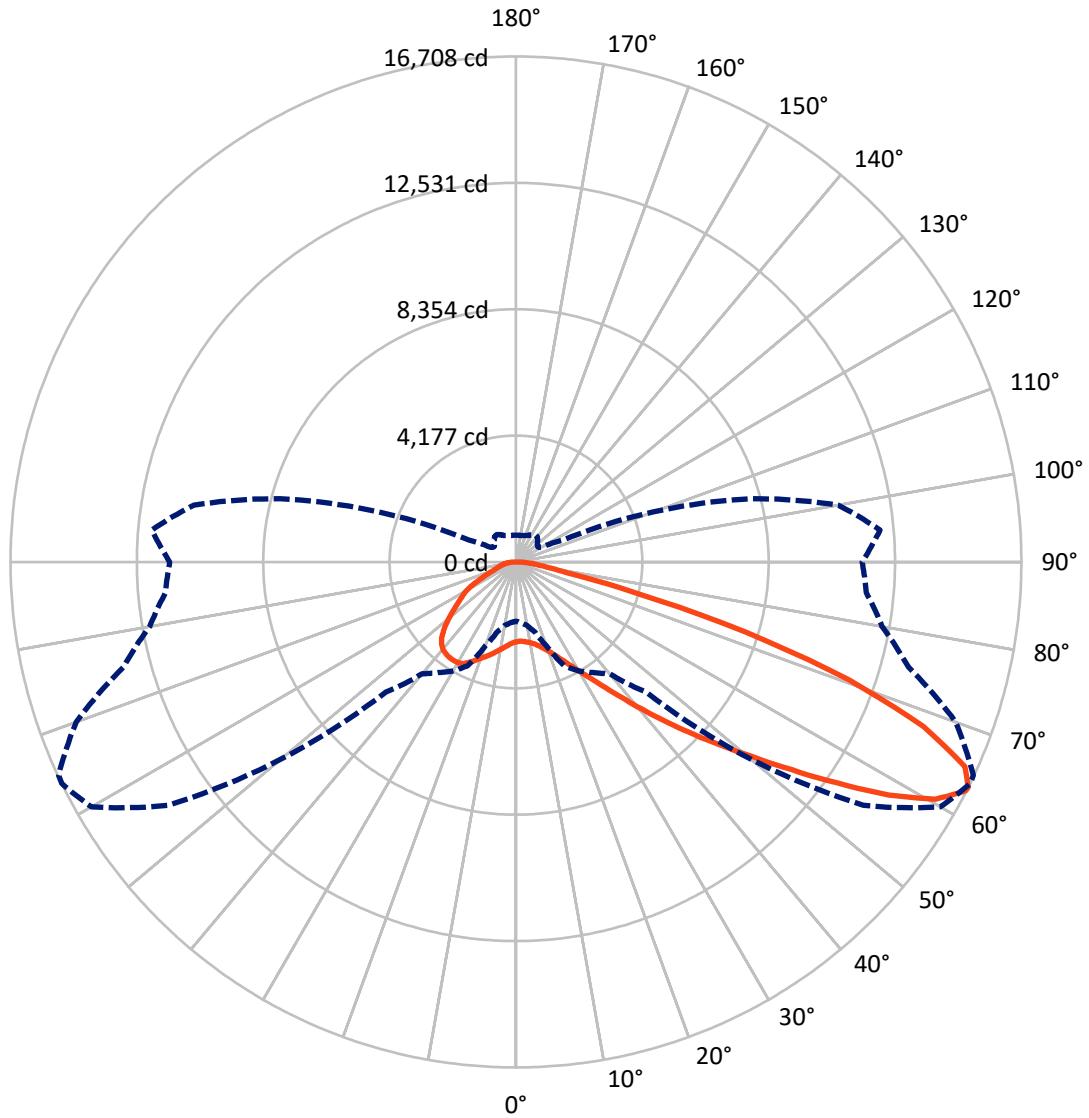
✕ Max cd
 - - - 1/2 Max cd



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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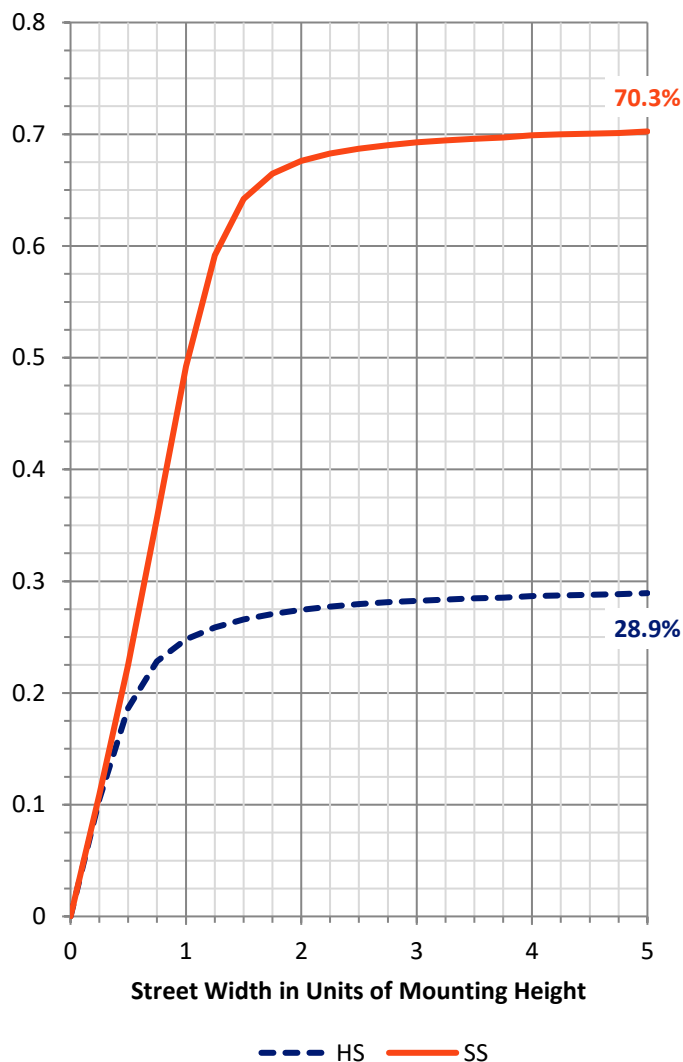
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7156.6	0.0	7156.6
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	17188.5	0.0	17188.5
	% Fixture	70.6	0.0	70.6
Total	Lumens	24345.0	0.0	24345.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.2	1.1
10°-20°	876.8	3.6
20°-30°	1645.8	6.8
30°-40°	2758.6	11.3
40°-50°	4628.3	19.0
50°-60°	5867.3	24.1
60°-70°	5175.9	21.3
70°-80°	2671.9	11.0
80°-90°	457.2	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°	24345.0	100.0
0°-180°	24345.0	100.0

Coefficient of Utilization

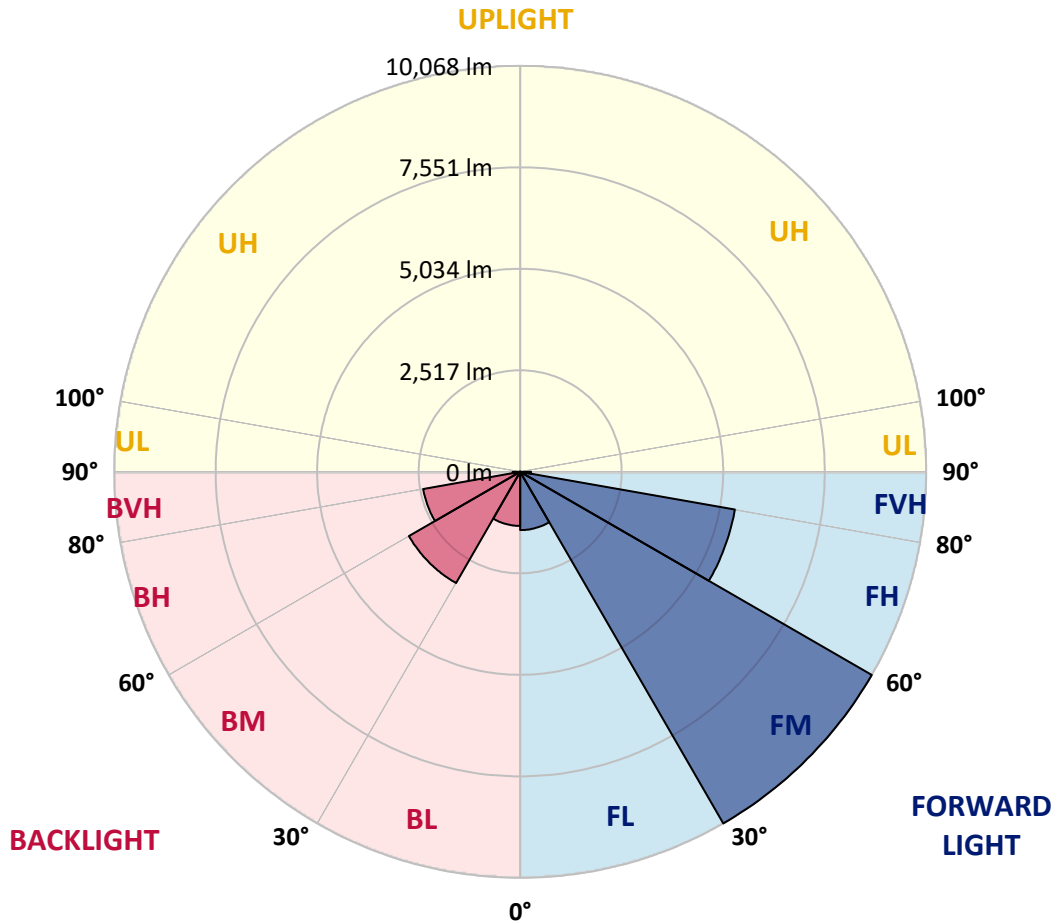


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1445.0	5.9			
FM (30°-60°)	10068.5	41.4			
FH (60°-80°)	5406.0	22.2			G3/7500
FVH (80°-90°)	269.1	1.1			G3/500
BL (0°-30°)	1340.9	5.5	B3/2500		
BM (30°-60°)	3185.8	13.1	B3/5000		
BH (60°-80°)	2441.8	10.0	B3/2500		G3/2500
BVH (80°-90°)	188.1	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°	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6
2.5°	2620.3	2616.2	2616.2	2616.2	2616.2	2612.1	2616.2	2624.3	2620.3	2616.2	2624.3
5°	2628.4	2624.3	2624.3	2624.3	2628.4	2624.3	2628.4	2640.6	2632.5	2632.5	2640.6
7.5°	2648.8	2644.7	2648.8	2644.7	2644.7	2644.7	2648.8	2661.0	2656.9	2661.0	2673.2
10°	2673.2	2673.2	2673.2	2673.2	2673.2	2673.2	2681.4	2689.5	2693.6	2697.7	2714.0
12.5°	2746.6	2746.6	2746.6	2742.5	2742.5	2730.3	2746.6	2754.7	2762.9	2771.0	2783.3
15°	2901.4	2901.4	2897.4	2881.1	2881.1	2856.6	2860.7	2864.8	2864.8	2872.9	2881.1
17.5°	3105.2	3101.1	3093.0	3080.7	3064.4	3035.9	3027.8	3019.6	3007.4	3003.3	3003.3
20°	3390.4	3386.4	3370.1	3337.5	3317.1	3272.3	3239.7	3207.1	3194.8	3174.5	3170.4
22.5°	3797.9	3797.9	3765.3	3716.4	3700.1	3606.4	3512.7	3443.4	3419.0	3390.4	3390.4
25°	4291.0	4286.9	4242.1	4185.1	4115.8	4018.0	3903.9	3810.2	3749.0	3683.8	3659.4
27.5°	4881.9	4869.7	4808.6	4739.3	4608.9	4486.6	4352.1	4254.3	4148.4	4066.9	3993.5
30°	5574.7	5562.4	5456.5	5326.1	5191.6	5069.4	4873.8	4755.6	4588.5	4490.7	4409.2
32.5°	6377.4	6365.2	6173.7	6047.4	5904.7	5754.0	5521.7	5334.2	5122.3	4983.8	4869.7
35°	7400.3	7351.4	7078.4	6903.1	6679.0	6528.2	6283.7	6031.1	5782.5	5586.9	5419.8
37.5°	8504.6	8447.6	8207.1	7946.3	7726.3	7542.9	7196.5	6878.7	6585.3	6316.3	6108.5
40°	9657.9	9507.1	9250.3	9058.8	8908.0	8732.8	8370.1	8036.0	7575.5	7274.0	6960.2
42.5°	10456.6	10309.9	10130.6	10004.2	9930.9	9796.4	9592.7	9303.3	8891.7	8899.9	8072.7
45°	10982.2	10766.3	10644.0	10652.2	10680.7	10680.7	10644.0	10599.2	10419.9	10542.1	9849.4
47.5°	10794.8	10652.2	10574.7	10737.7	10941.5	11145.2	11381.6	11638.3	11931.7	12278.1	11426.4
50°	9694.5	9747.5	9784.2	10130.6	10566.6	11031.1	11573.1	12274.0	13093.1	13252.0	12840.5
52.5°	7938.2	8052.3	8174.5	8704.3	9278.9	10081.7	11031.1	12188.5	13288.7	13936.6	13895.9
55°	6165.5	6308.2	6569.0	6964.2	7420.7	8178.6	9352.2	11137.1	12852.7	13883.7	14511.2
57.5°	4388.8	4596.6	4939.0	5489.1	5892.5	6320.4	7188.4	9168.8	11047.4	12966.8	14409.4
60°	2917.7	3015.5	3239.7	3924.3	4604.8	5053.1	5668.4	6385.6	7921.9	10566.6	13358.0
62.5°	2070.1	2135.3	2273.9	2583.6	3198.9	4009.8	4380.7	4710.8	5203.8	6797.2	10725.5
63°	1956.0	2013.1	2127.2	2388.0	2942.2	3781.6	4160.6	4462.2	4820.8	6080.0	10146.9
65°	1621.9	1646.3	1707.4	1833.8	2131.2	2828.1	3447.5	3630.9	3692.0	3908.0	6357.1
67.5°	1369.2	1385.5	1405.9	1442.6	1560.7	1882.7	2571.4	2803.6	2734.4	2587.7	3141.9
70°	1189.9	1202.1	1234.7	1279.6	1320.3	1401.8	1768.6	2114.9	2037.5	1837.8	1923.4
72.5°	949.5	969.9	1006.5	1084.0	1165.5	1271.4	1361.1	1577.0	1528.1	1336.6	1357.0
75°	749.8	762.0	794.6	851.7	929.1	1051.4	1226.6	1299.9	1165.5	986.2	986.2
77.5°	595.0	607.2	635.7	680.5	729.4	815.0	937.3	1128.8	1047.3	741.7	737.6
80°	448.3	460.5	489.0	529.8	578.7	639.8	713.1	798.7	961.7	692.8	554.2
82.5°	330.1	334.2	383.1	411.6	427.9	476.8	537.9	586.8	660.2	639.8	493.1
85°	248.6	244.5	277.1	297.5	301.6	313.8	350.5	399.4	432.0	415.7	383.1
87.5°	138.6	122.3	142.6	163.0	163.0	167.1	175.2	203.8	232.3	224.1	203.8
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°	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6
2.5°	2624.3	2624.3	2620.3	2620.3	2624.3	2624.3	2620.3	2632.5	2640.6	2640.6	2644.7
5°	2636.6	2640.6	2636.6	2636.6	2640.6	2640.6	2644.7	2656.9	2669.2	2677.3	2689.5
7.5°	2673.2	2677.3	2673.2	2673.2	2677.3	2681.4	2689.5	2705.8	2714.0	2730.3	2750.7
10°	2714.0	2718.1	2714.0	2718.1	2722.1	2726.2	2738.4	2750.7	2762.9	2779.2	2811.8
12.5°	2787.3	2791.4	2783.3	2787.3	2799.6	2799.6	2807.7	2815.9	2836.2	2856.6	2889.2
15°	2889.2	2889.2	2881.1	2885.1	2897.4	2897.4	2901.4	2909.6	2934.0	2958.5	2991.1
17.5°	3007.4	3015.5	3011.5	3015.5	3023.7	3027.8	3027.8	3035.9	3052.2	3068.5	3101.1
20°	3166.3	3170.4	3162.2	3170.4	3178.5	3170.4	3162.2	3158.2	3166.3	3174.5	3211.1
22.5°	3382.3	3378.2	3357.8	3357.8	3357.8	3341.5	3321.2	3296.7	3296.7	3284.5	3313.0
25°	3639.0	3626.8	3598.3	3602.3	3573.8	3549.4	3512.7	3476.0	3443.4	3431.2	3435.3
27.5°	3940.6	3916.1	3887.6	3879.4	3850.9	3806.1	3745.0	3675.7	3622.7	3582.0	3573.8
30°	4319.5	4266.6	4217.7	4209.5	4164.7	4091.3	3993.5	3899.8	3810.2	3740.9	3716.4
32.5°	4767.8	4686.3	4608.9	4600.7	4527.4	4429.6	4311.4	4181.0	4050.6	3940.6	3887.6
35°	5293.5	5171.2	5097.9	5077.5	4971.6	4849.3	4718.9	4551.8	4368.4	4213.6	4115.8
37.5°	5933.3	5806.9	5680.6	5684.7	5538.0	5395.4	5220.1	5016.4	4784.1	4568.1	4429.6
40°	6723.8	6544.5	6381.5	6344.8	6218.5	6018.8	5827.3	5591.0	5305.7	5020.5	4820.8
42.5°	7681.5	7388.1	7163.9	7131.3	6964.2	6719.7	6487.5	6173.7	5884.4	5538.0	5297.6
45°	8769.5	8300.9	8031.9	7983.0	7714.1	7465.5	7184.3	6850.1	6495.6	6104.4	5819.2
47.5°	10122.4	9454.1	8997.7	8916.2	8545.4	8219.4	7926.0	7555.1	7131.3	6695.3	6381.5
50°	11699.5	10713.3	10098.0	9971.6	9474.5	9091.4	8716.5	8252.0	7799.6	7343.2	6980.5
52.5°	13280.6	12221.1	11402.0	11247.1	10513.6	10000.2	9507.1	9042.5	8508.7	8056.4	7644.8
55°	14552.0	13847.0	12897.5	12681.5	11630.2	10933.3	10285.4	9755.7	9225.9	8867.3	8382.4
57.5°	15318.1	15281.4	14531.6	14234.1	12795.6	11764.7	11043.4	10440.3	9926.8	9776.0	9132.2
60°	15297.7	16247.2	15925.3	15701.1	13973.3	12616.3	11679.1	11027.1	10603.3	10774.4	9886.1
62.5°	14364.5	16287.9	16675.1	16614.0	15228.4	13300.9	12200.7	11528.3	11304.2	11813.6	10668.5
63°	14026.3	16194.2	16707.7	16683.2	15468.9	13431.3	12290.3	11626.1	11442.7	12078.4	10811.1
65°	11854.3	15375.1	16312.4	16422.4	15986.4	13879.6	12498.2	11874.7	11854.3	12669.3	11149.3
67.5°	7225.1	12991.2	14531.6	14743.5	15257.0	14022.2	12380.0	11789.1	12082.5	12754.9	11047.4
70°	3088.9	8573.9	11679.1	12021.4	13276.5	13313.2	12041.8	11438.6	12029.5	12086.6	10322.1
72.5°	1829.7	4042.4	7950.4	8696.1	10505.5	11454.9	11267.5	10827.4	11332.7	10615.5	8789.9
75°	1295.9	1890.8	4038.4	4833.0	7314.7	8745.0	9466.3	9670.1	9649.7	8419.0	6597.5
77.5°	929.1	1214.4	1703.4	2009.0	4083.2	5615.4	6495.6	7090.6	6899.0	5635.8	4066.9
80°	647.9	839.5	1043.2	1108.4	1894.9	2885.1	3423.0	3683.8	3569.7	2815.9	1821.5
82.5°	468.6	550.1	672.4	713.1	953.6	1332.5	1585.2	1397.7	1340.7	1039.1	786.5
85°	362.7	354.5	419.7	436.0	558.3	696.8	713.1	554.2	484.9	432.0	440.1
87.5°	256.7	220.1	224.1	232.3	289.3	370.8	362.7	228.2	195.6	207.8	236.4
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°	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6	2636.6
2.5°	2652.9	2656.9	2665.1	2669.2	2677.3	2677.3	2685.5	2689.5	2697.7	2705.8	2709.9
5°	2701.8	2714.0	2730.3	2738.4	2754.7	2767.0	2783.3	2791.4	2807.7	2819.9	2836.2
7.5°	2775.1	2795.5	2815.9	2840.3	2864.8	2885.1	2901.4	2921.8	2950.3	2970.7	2982.9
10°	2844.4	2872.9	2909.6	2938.1	2974.8	3003.3	3027.8	3064.4	3097.0	3125.6	3141.9
12.5°	2934.0	2970.7	3007.4	3052.2	3101.1	3137.8	3174.5	3223.4	3268.2	3300.8	3317.1
15°	3040.0	3084.8	3125.6	3178.5	3235.6	3284.5	3337.5	3390.4	3423.0	3423.0	3414.9
17.5°	3150.0	3186.7	3235.6	3296.7	3374.1	3435.3	3463.8	3471.9	3459.7	3431.2	3410.8
20°	3260.0	3292.6	3345.6	3419.0	3500.5	3512.7	3484.2	3447.5	3410.8	3361.9	3329.3
22.5°	3349.7	3394.5	3476.0	3561.6	3565.7	3496.4	3419.0	3357.8	3300.8	3243.7	3182.6
25°	3455.6	3516.8	3626.8	3659.4	3553.4	3423.0	3313.0	3223.4	3129.6	3035.9	2966.6
27.5°	3586.0	3675.7	3785.7	3692.0	3484.2	3300.8	3150.0	3015.5	2893.3	2762.9	2685.5
30°	3724.6	3863.1	3887.6	3643.1	3366.0	3129.6	2925.9	2722.1	2567.3	2449.1	2404.3
32.5°	3891.7	4071.0	3924.3	3557.5	3207.1	2897.4	2624.3	2379.8	2249.4	2176.1	2155.7
35°	4144.3	4291.0	3944.6	3467.9	3023.7	2620.3	2277.9	2082.3	2000.8	1951.9	1927.5
37.5°	4507.0	4502.9	3940.6	3357.8	2811.8	2318.7	2000.8	1862.3	1797.1	1756.3	1711.5
40°	4930.8	4665.9	3916.1	3198.9	2526.5	2029.4	1809.3	1678.9	1617.8	1568.9	1515.9
42.5°	5350.5	4776.0	3846.8	2962.6	2172.0	1821.5	1670.8	1552.6	1487.4	1434.4	1361.1
45°	5713.2	4820.8	3712.4	2636.6	1854.1	1658.5	1581.1	1479.2	1401.8	1320.3	1263.3
47.5°	5998.5	4812.6	3496.4	2253.5	1642.2	1544.4	1507.8	1438.5	1344.8	1242.9	1169.5
50°	6238.9	4751.5	3203.0	1915.3	1499.6	1442.6	1430.3	1410.0	1259.2	1173.6	1128.8
52.5°	6458.9	4661.9	2889.2	1687.1	1377.4	1328.5	1352.9	1332.5	1226.6	1153.2	1108.4
55°	6760.5	4600.7	2579.5	1511.8	1234.7	1222.5	1242.9	1271.4	1206.2	1136.9	1088.0
57.5°	7115.0	4633.3	2343.2	1316.2	1100.3	1108.4	1177.7	1218.4	1185.8	1112.5	1063.6
60°	7522.5	4731.1	2135.3	1128.8	990.2	1010.6	1112.5	1169.5	1165.5	1079.9	1022.8
62.5°	7978.9	4833.0	1805.2	986.2	896.5	929.1	1035.1	1108.4	1120.6	1047.3	978.0
63°	8068.6	4841.2	1719.7	957.6	880.2	916.9	1014.7	1092.1	1108.4	1039.1	969.9
65°	8288.6	4767.8	1385.5	880.2	815.0	855.8	953.6	1022.8	1055.4	994.3	937.3
67.5°	8105.3	4168.8	1043.2	786.5	762.0	790.6	876.1	941.3	969.9	941.3	884.3
70°	7412.5	3031.8	815.0	700.9	705.0	725.4	790.6	851.7	884.3	876.1	823.2
72.5°	5969.9	1719.7	680.5	627.6	639.8	664.2	709.1	766.1	794.6	790.6	753.9
75°	3932.4	880.2	574.6	562.4	570.5	590.9	623.5	668.3	700.9	696.8	680.5
77.5°	1947.9	611.3	493.1	497.2	501.2	517.5	542.0	582.7	603.1	607.2	603.1
80°	802.8	476.8	423.8	427.9	432.0	444.2	460.5	497.2	509.4	517.5	521.6
82.5°	480.9	362.7	338.2	346.4	350.5	362.7	374.9	407.5	419.7	432.0	432.0
85°	317.9	252.7	244.5	252.7	260.8	269.0	273.0	293.4	313.8	330.1	338.2
87.5°	171.2	150.8	146.7	150.8	150.8	158.9	167.1	187.5	211.9	228.2	236.4
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°	2636.6	2636.6	2636.6	2636.6	2636.6
2.5°	2701.8	2705.8	2701.8	2705.8	2709.9
5°	2836.2	2844.4	2840.3	2840.3	2856.6
7.5°	2991.1	3007.4	3007.4	3015.5	3023.7
10°	3158.2	3174.5	3186.7	3186.7	3198.9
12.5°	3325.2	3333.4	3345.6	3345.6	3345.6
15°	3410.8	3406.7	3402.7	3398.6	3398.6
17.5°	3398.6	3382.3	3374.1	3366.0	3370.1
20°	3308.9	3280.4	3272.3	3260.0	3268.2
22.5°	3154.1	3113.3	3097.0	3076.7	3084.8
25°	2921.8	2872.9	2864.8	2840.3	2852.5
27.5°	2652.9	2628.4	2624.3	2620.3	2640.6
30°	2400.2	2408.4	2412.4	2420.6	2441.0
32.5°	2167.9	2184.2	2188.3	2192.4	2220.9
35°	1939.7	1919.3	1939.7	1931.6	1956.0
37.5°	1691.1	1674.8	1658.5	1638.2	1654.5
40°	1483.3	1454.8	1405.9	1381.4	1385.5
42.5°	1320.3	1283.6	1242.9	1218.4	1218.4
45°	1214.4	1169.5	1132.9	1116.6	1116.6
47.5°	1132.9	1112.5	1092.1	1079.9	1079.9
50°	1100.3	1075.8	1063.6	1055.4	1055.4
52.5°	1075.8	1051.4	1039.1	1031.0	1022.8
55°	1055.4	1018.8	1006.5	1002.5	1002.5
57.5°	1026.9	994.3	978.0	973.9	973.9
60°	982.1	957.6	941.3	937.3	937.3
62.5°	937.3	912.8	896.5	896.5	896.5
63°	929.1	900.6	888.4	888.4	888.4
65°	892.4	863.9	851.7	851.7	847.6
67.5°	843.5	815.0	806.9	806.9	798.7
70°	786.5	762.0	753.9	758.0	741.7
72.5°	729.4	705.0	692.8	692.8	676.5
75°	664.2	639.8	623.5	619.4	603.1
77.5°	590.9	570.5	554.2	537.9	529.8
80°	513.5	497.2	476.8	464.6	452.3
82.5°	432.0	415.7	403.4	419.7	358.6
85°	338.2	321.9	305.6	330.1	256.7
87.5°	248.6	240.4	224.1	195.6	171.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)