

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: P257971

Luminaire Tested: **ARCH-L-AF72-150-D-U-T2U-7050**

Issue Date: 8/21/2018

Test Information

Test Method: LM-79-08
Report Number: P257971
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-AF72-150-D-U-T2U-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19978 lumens
Efficiency: N/A
Efficacy: 130.6 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

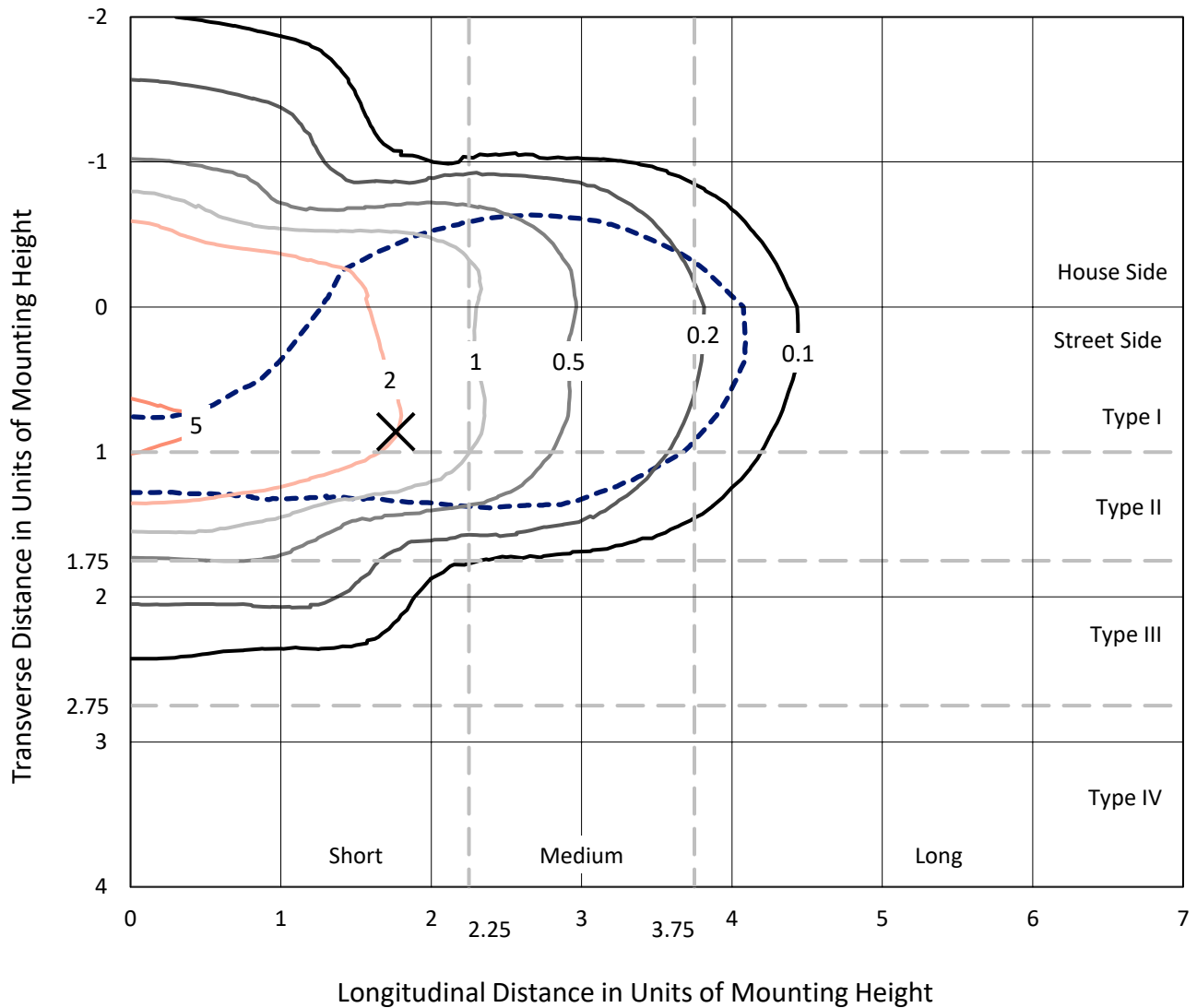
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

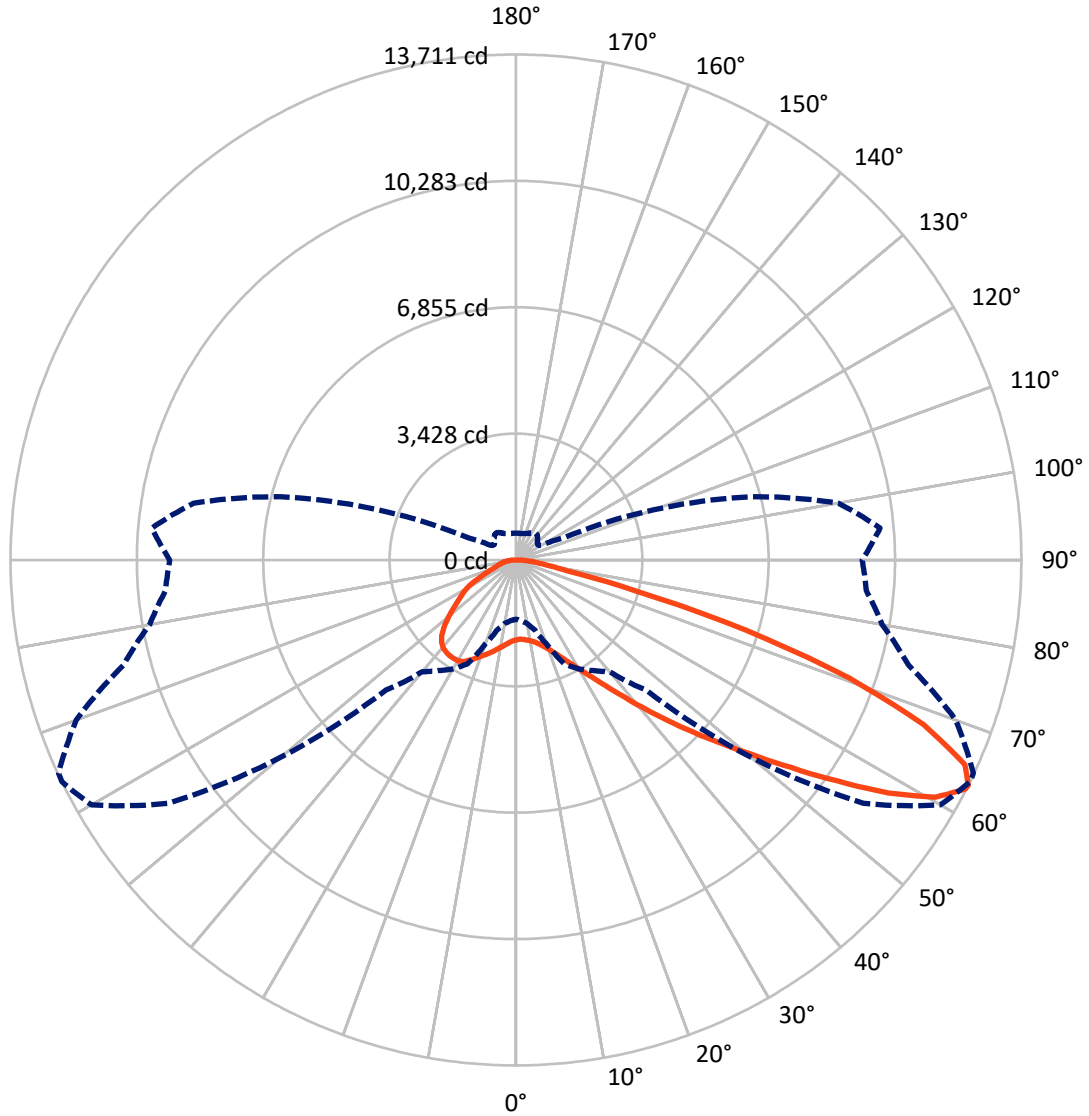
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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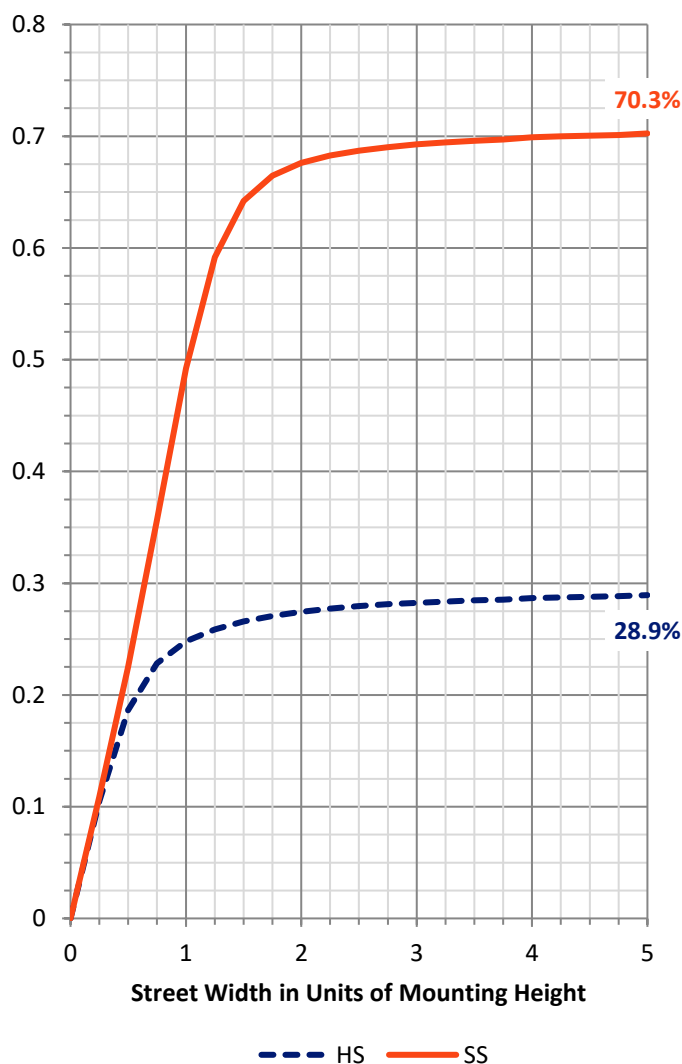
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5872.8	0.0	5872.8
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	14105.2	0.0	14105.2
	% Fixture	70.6	0.0	70.6
Total	Lumens	19978.0	0.0	19978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	1.1
10°-20°	719.5	3.6
20°-30°	1350.6	6.8
30°-40°	2263.8	11.3
40°-50°	3798.1	19.0
50°-60°	4814.8	24.1
60°-70°	4247.4	21.3
70°-80°	2192.6	11.0
80°-90°	375.2	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°	19978.0	100.0
0°-180°	19978.0	100.0

Coefficient of Utilization

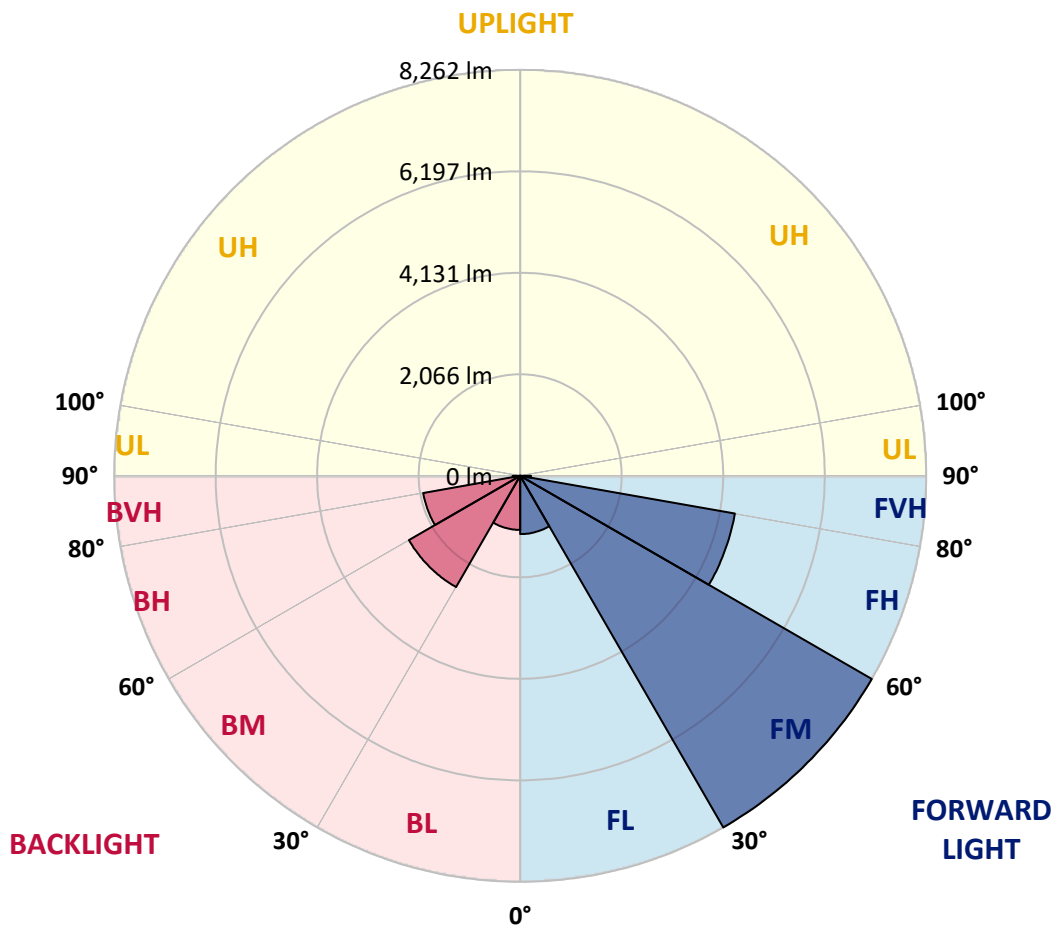


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.8	5.9			
FM (30°-60°)	8262.4	41.4			
FH (60°-80°)	4436.3	22.2			G2/5000
FVH (80°-90°)	220.8	1.1			G2/225
BL (0°-30°)	1100.4	5.5	B3/2500		
BM (30°-60°)	2614.3	13.1	B3/5000		
BH (60°-80°)	2003.8	10.0	B3/2500		G3/2500
BVH (80°-90°)	154.4	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°	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2150.2	2146.9	2146.9	2146.9	2146.9	2143.5	2146.9	2153.6	2150.2	2146.9	2153.6
5°	2156.9	2153.6	2153.6	2153.6	2156.9	2153.6	2156.9	2167.0	2160.3	2160.3	2167.0
7.5°	2173.6	2170.3	2173.6	2170.3	2170.3	2170.3	2173.6	2183.7	2180.3	2183.7	2193.7
10°	2193.7	2193.7	2193.7	2193.7	2193.7	2193.7	2200.4	2207.1	2210.4	2213.8	2227.1
12.5°	2253.9	2253.9	2253.9	2250.6	2250.6	2240.5	2253.9	2260.6	2267.3	2274.0	2284.0
15°	2381.0	2381.0	2377.6	2364.3	2364.3	2344.2	2347.5	2350.9	2350.9	2357.6	2364.3
17.5°	2548.2	2544.8	2538.1	2528.1	2514.7	2491.3	2484.6	2478.0	2467.9	2464.6	2464.6
20°	2782.3	2778.9	2765.5	2738.8	2722.1	2685.3	2658.5	2631.8	2621.7	2605.0	2601.7
22.5°	3116.7	3116.7	3089.9	3049.8	3036.4	2959.5	2882.6	2825.7	2805.7	2782.3	2782.3
25°	3521.3	3518.0	3481.2	3434.4	3377.5	3297.2	3203.6	3126.7	3076.5	3023.0	3003.0
27.5°	4006.2	3996.2	3946.0	3889.1	3782.1	3681.8	3571.5	3491.2	3404.3	3337.4	3277.2
30°	4574.7	4564.6	4477.7	4370.7	4260.3	4160.0	3999.5	3902.5	3765.4	3685.2	3618.3
32.5°	5233.5	5223.4	5066.3	4962.6	4845.5	4721.8	4531.2	4377.4	4203.5	4089.8	3996.2
35°	6072.8	6032.7	5808.6	5664.8	5480.9	5357.2	5156.5	4949.2	4745.2	4584.7	4447.6
37.5°	6979.1	6932.2	6734.9	6520.9	6340.3	6189.9	5905.6	5644.8	5404.0	5183.3	5012.8
40°	7925.4	7801.7	7591.0	7433.9	7310.1	7166.3	6868.7	6594.5	6216.6	5969.2	5711.7
42.5°	8580.9	8460.5	8313.3	8209.7	8149.5	8039.1	7871.9	7634.5	7296.7	7303.4	6624.6
45°	9012.3	8835.0	8734.7	8741.4	8764.8	8764.8	8734.7	8697.9	8550.8	8651.1	8082.6
47.5°	8858.4	8741.4	8677.8	8811.6	8978.8	9146.0	9340.0	9550.6	9791.4	10075.7	9376.8
50°	7955.5	7999.0	8029.1	8313.3	8671.2	9052.4	9497.1	10072.3	10744.5	10874.9	10537.1
52.5°	6514.2	6607.9	6708.2	7142.9	7614.4	8273.2	9052.4	10002.1	10905.0	11436.7	11403.3
55°	5059.6	5176.6	5390.6	5715.0	6089.5	6711.5	7674.6	9139.3	10547.2	11393.2	11908.2
57.5°	3601.6	3772.1	4053.0	4504.5	4835.5	5186.6	5898.9	7524.1	9065.8	10640.8	11824.6
60°	2394.3	2474.6	2658.5	3220.3	3778.8	4146.6	4651.6	5240.1	6500.9	8671.2	10961.8
62.5°	1698.8	1752.3	1866.0	2120.1	2625.1	3290.6	3594.9	3865.7	4270.4	5577.9	8801.6
63°	1605.2	1652.0	1745.6	1959.6	2414.4	3103.3	3414.3	3661.7	3956.0	4989.3	8326.7
65°	1330.9	1351.0	1401.2	1504.8	1748.9	2320.8	2829.1	2979.6	3029.7	3207.0	5216.7
67.5°	1123.6	1137.0	1153.7	1183.8	1280.8	1545.0	2110.1	2300.7	2243.9	2123.5	2578.3
70°	976.5	986.5	1013.3	1050.0	1083.5	1150.4	1451.3	1735.6	1672.0	1508.2	1578.4
72.5°	779.2	795.9	826.0	889.5	956.4	1043.3	1116.9	1294.2	1254.0	1096.9	1113.6
75°	615.3	625.3	652.1	698.9	762.4	862.8	1006.6	1066.8	956.4	809.3	809.3
77.5°	488.2	498.3	521.7	558.5	598.6	668.8	769.1	926.3	859.4	608.6	605.3
80°	367.8	377.9	401.3	434.7	474.9	525.0	585.2	655.4	789.2	568.5	454.8
82.5°	270.9	274.2	314.3	337.8	351.1	391.3	441.4	481.5	541.7	525.0	404.6
85°	204.0	200.6	227.4	244.1	247.5	257.5	287.6	327.7	354.5	341.1	314.3
87.5°	113.7	100.3	117.0	133.8	133.8	137.1	143.8	167.2	190.6	183.9	167.2
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):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2153.6	2153.6	2150.2	2150.2	2153.6	2153.6	2150.2	2160.3	2167.0	2167.0	2170.3
5°	2163.6	2167.0	2163.6	2163.6	2167.0	2167.0	2170.3	2180.3	2190.4	2197.0	2207.1
7.5°	2193.7	2197.0	2193.7	2193.7	2197.0	2200.4	2207.1	2220.5	2227.1	2240.5	2257.2
10°	2227.1	2230.5	2227.1	2230.5	2233.8	2237.2	2247.2	2257.2	2267.3	2280.7	2307.4
12.5°	2287.3	2290.7	2284.0	2287.3	2297.4	2297.4	2304.1	2310.7	2327.5	2344.2	2370.9
15°	2370.9	2370.9	2364.3	2367.6	2377.6	2377.6	2381.0	2387.7	2407.7	2427.8	2454.5
17.5°	2467.9	2474.6	2471.3	2474.6	2481.3	2484.6	2484.6	2491.3	2504.7	2518.1	2544.8
20°	2598.3	2601.7	2595.0	2601.7	2608.4	2601.7	2595.0	2591.6	2598.3	2605.0	2635.1
22.5°	2775.6	2772.2	2755.5	2755.5	2755.5	2742.1	2725.4	2705.3	2705.3	2695.3	2718.7
25°	2986.2	2976.2	2952.8	2956.2	2932.7	2912.7	2882.6	2852.5	2825.7	2815.7	2819.0
27.5°	3233.7	3213.6	3190.2	3183.5	3160.1	3123.4	3073.2	3016.3	2972.9	2939.4	2932.7
30°	3544.7	3501.2	3461.1	3454.4	3417.6	3357.4	3277.2	3200.3	3126.7	3069.9	3049.8
32.5°	3912.6	3845.7	3782.1	3775.4	3715.3	3635.0	3538.0	3431.0	3324.0	3233.7	3190.2
35°	4343.9	4243.6	4183.4	4166.7	4079.8	3979.4	3872.4	3735.3	3584.8	3457.8	3377.5
37.5°	4869.0	4765.3	4661.6	4665.0	4544.6	4427.5	4283.7	4116.5	3925.9	3748.7	3635.0
40°	5517.7	5370.6	5236.8	5206.7	5103.0	4939.2	4782.0	4588.1	4354.0	4119.9	3956.0
42.5°	6303.6	6062.8	5878.9	5852.1	5715.0	5514.4	5323.7	5066.3	4828.8	4544.6	4347.3
45°	7196.4	6811.9	6591.1	6551.0	6330.3	6126.3	5895.6	5621.4	5330.4	5009.4	4775.3
47.5°	8306.7	7758.2	7383.7	7316.8	7012.5	6745.0	6504.2	6199.9	5852.1	5494.3	5236.8
50°	9600.8	8791.5	8286.6	8182.9	7774.9	7460.6	7153.0	6771.7	6400.5	6026.0	5728.4
52.5°	10898.3	10028.8	9356.7	9229.6	8627.7	8206.3	7801.7	7420.5	6982.4	6611.2	6273.5
55°	11941.7	11363.1	10584.0	10406.7	9544.0	8972.1	8440.4	8005.7	7571.0	7276.7	6878.7
57.5°	12570.3	12540.2	11924.9	11680.8	10500.4	9654.3	9062.4	8567.5	8146.1	8022.4	7494.0
60°	12553.6	13332.8	13068.6	12884.7	11466.8	10353.2	9584.1	9049.0	8701.3	8841.7	8112.7
62.5°	11787.8	13366.2	13683.9	13633.7	12496.8	10915.0	10012.1	9460.4	9276.4	9694.4	8754.8
63°	11510.3	13289.3	13710.7	13690.6	12694.1	11022.0	10085.7	9540.6	9390.1	9911.8	8871.8
65°	9727.9	12617.2	13386.3	13476.6	13118.8	11389.9	10256.2	9744.6	9727.9	10396.7	9149.4
67.5°	5929.0	10660.9	11924.9	12098.8	12520.2	11506.9	10159.3	9674.4	9915.1	10466.9	9065.8
70°	2534.8	7035.9	9584.1	9865.0	10895.0	10925.1	9881.7	9386.8	9871.7	9918.5	8470.5
72.5°	1501.5	3317.3	6524.3	7136.2	8621.0	9400.2	9246.3	8885.2	9299.8	8711.3	7213.1
75°	1063.4	1551.6	3314.0	3966.1	6002.6	7176.4	7768.3	7935.5	7918.7	6908.8	5414.0
77.5°	762.4	996.5	1397.8	1648.6	3350.8	4608.1	5330.4	5818.7	5661.5	4624.8	3337.4
80°	531.7	688.9	856.1	909.6	1555.0	2367.6	2809.0	3023.0	2929.4	2310.7	1494.8
82.5°	384.6	451.4	551.8	585.2	782.5	1093.5	1300.8	1147.0	1100.2	852.7	645.4
85°	297.6	290.9	344.4	357.8	458.1	571.8	585.2	454.8	397.9	354.5	361.2
87.5°	210.7	180.6	183.9	190.6	237.4	304.3	297.6	187.3	160.5	170.5	194.0
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°	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2177.0	2180.3	2187.0	2190.4	2197.0	2197.0	2203.7	2207.1	2213.8	2220.5	2223.8
5°	2217.1	2227.1	2240.5	2247.2	2260.6	2270.6	2284.0	2290.7	2304.1	2314.1	2327.5
7.5°	2277.3	2294.0	2310.7	2330.8	2350.9	2367.6	2381.0	2397.7	2421.1	2437.8	2447.9
10°	2334.2	2357.6	2387.7	2411.1	2441.2	2464.6	2484.6	2514.7	2541.5	2564.9	2578.3
12.5°	2407.7	2437.8	2467.9	2504.7	2544.8	2574.9	2605.0	2645.2	2681.9	2708.7	2722.1
15°	2494.7	2531.5	2564.9	2608.4	2655.2	2695.3	2738.8	2782.3	2809.0	2809.0	2802.3
17.5°	2585.0	2615.1	2655.2	2705.3	2768.9	2819.0	2842.5	2849.1	2839.1	2815.7	2799.0
20°	2675.3	2702.0	2745.5	2805.7	2872.6	2882.6	2859.2	2829.1	2799.0	2758.9	2732.1
22.5°	2748.8	2785.6	2852.5	2922.7	2926.1	2869.2	2805.7	2755.5	2708.7	2661.9	2611.7
25°	2835.8	2885.9	2976.2	3003.0	2916.0	2809.0	2718.7	2645.2	2568.2	2491.3	2434.5
27.5°	2942.8	3016.3	3106.6	3029.7	2859.2	2708.7	2585.0	2474.6	2374.3	2267.3	2203.7
30°	3056.5	3170.2	3190.2	2989.6	2762.2	2568.2	2401.0	2233.8	2106.8	2009.8	1973.0
32.5°	3193.6	3340.7	3220.3	2919.4	2631.8	2377.6	2153.6	1952.9	1845.9	1785.7	1769.0
35°	3400.9	3521.3	3237.1	2845.8	2481.3	2150.2	1869.3	1708.8	1641.9	1601.8	1581.7
37.5°	3698.5	3695.2	3233.7	2755.5	2307.4	1902.8	1641.9	1528.2	1474.7	1441.3	1404.5
40°	4046.3	3829.0	3213.6	2625.1	2073.3	1665.3	1484.8	1377.8	1327.6	1287.5	1244.0
42.5°	4390.8	3919.2	3156.8	2431.1	1782.4	1494.8	1371.1	1274.1	1220.6	1177.1	1116.9
45°	4688.4	3956.0	3046.4	2163.6	1521.5	1361.0	1297.5	1213.9	1150.4	1083.5	1036.7
47.5°	4922.5	3949.3	2869.2	1849.3	1347.7	1267.4	1237.3	1180.5	1103.5	1019.9	959.7
50°	5119.8	3899.2	2628.4	1571.7	1230.6	1183.8	1173.8	1157.0	1033.3	963.1	926.3
52.5°	5300.3	3825.6	2370.9	1384.4	1130.3	1090.2	1110.2	1093.5	1006.6	946.4	909.6
55°	5547.8	3775.4	2116.8	1240.6	1013.3	1003.2	1019.9	1043.3	989.8	933.0	892.9
57.5°	5838.7	3802.2	1922.8	1080.1	902.9	909.6	966.4	999.9	973.1	912.9	872.8
60°	6173.1	3882.5	1752.3	926.3	812.6	829.3	912.9	959.7	956.4	886.2	839.4
62.5°	6547.7	3966.1	1481.4	809.3	735.7	762.4	849.4	909.6	919.6	859.4	802.6
63°	6621.2	3972.7	1411.2	785.9	722.3	752.4	832.7	896.2	909.6	852.7	795.9
65°	6801.8	3912.6	1137.0	722.3	668.8	702.3	782.5	839.4	866.1	816.0	769.1
67.5°	6651.3	3421.0	856.1	645.4	625.3	648.7	719.0	772.5	795.9	772.5	725.7
70°	6082.9	2488.0	668.8	575.2	578.5	595.2	648.7	698.9	725.7	719.0	675.5
72.5°	4899.1	1411.2	558.5	515.0	525.0	545.1	581.9	628.7	652.1	648.7	618.7
75°	3227.0	722.3	471.5	461.5	468.2	484.9	511.6	548.4	575.2	571.8	558.5
77.5°	1598.5	501.6	404.6	408.0	411.3	424.7	444.8	478.2	494.9	498.3	494.9
80°	658.8	391.3	347.8	351.1	354.5	364.5	377.9	408.0	418.0	424.7	428.0
82.5°	394.6	297.6	277.6	284.2	287.6	297.6	307.7	334.4	344.4	354.5	354.5
85°	260.8	207.3	200.6	207.3	214.0	220.7	224.1	240.8	257.5	270.9	277.6
87.5°	140.5	123.7	120.4	123.7	123.7	130.4	137.1	153.8	173.9	187.3	194.0
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°	2163.6	2163.6	2163.6	2163.6	2163.6
2.5°	2217.1	2220.5	2217.1	2220.5	2223.8
5°	2327.5	2334.2	2330.8	2330.8	2344.2
7.5°	2454.5	2467.9	2467.9	2474.6	2481.3
10°	2591.6	2605.0	2615.1	2615.1	2625.1
12.5°	2728.8	2735.4	2745.5	2745.5	2745.5
15°	2799.0	2795.6	2792.3	2788.9	2788.9
17.5°	2788.9	2775.6	2768.9	2762.2	2765.5
20°	2715.4	2692.0	2685.3	2675.3	2681.9
22.5°	2588.3	2554.9	2541.5	2524.8	2531.5
25°	2397.7	2357.6	2350.9	2330.8	2340.8
27.5°	2177.0	2156.9	2153.6	2150.2	2167.0
30°	1969.7	1976.3	1979.7	1986.4	2003.1
32.5°	1779.0	1792.4	1795.8	1799.1	1822.5
35°	1591.8	1575.1	1591.8	1585.1	1605.2
37.5°	1387.8	1374.4	1361.0	1344.3	1357.7
40°	1217.2	1193.8	1153.7	1133.6	1137.0
42.5°	1083.5	1053.4	1019.9	999.9	999.9
45°	996.5	959.7	929.6	916.3	916.3
47.5°	929.6	912.9	896.2	886.2	886.2
50°	902.9	882.8	872.8	866.1	866.1
52.5°	882.8	862.8	852.7	846.0	839.4
55°	866.1	836.0	826.0	822.6	822.6
57.5°	842.7	816.0	802.6	799.2	799.2
60°	805.9	785.9	772.5	769.1	769.1
62.5°	769.1	749.1	735.7	735.7	735.7
63°	762.4	739.0	729.0	729.0	729.0
65°	732.3	708.9	698.9	698.9	695.6
67.5°	692.2	668.8	662.1	662.1	655.4
70°	645.4	625.3	618.7	622.0	608.6
72.5°	598.6	578.5	568.5	568.5	555.1
75°	545.1	525.0	511.6	508.3	494.9
77.5°	484.9	468.2	454.8	441.4	434.7
80°	421.4	408.0	391.3	381.2	371.2
82.5°	354.5	341.1	331.1	344.4	294.3
85°	277.6	264.2	250.8	270.9	210.7
87.5°	204.0	197.3	183.9	160.5	140.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)