

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: P257936

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257936
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-AF72-200-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 23545.4 lumens
Efficiency: N/A
Efficacy: 117.1 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

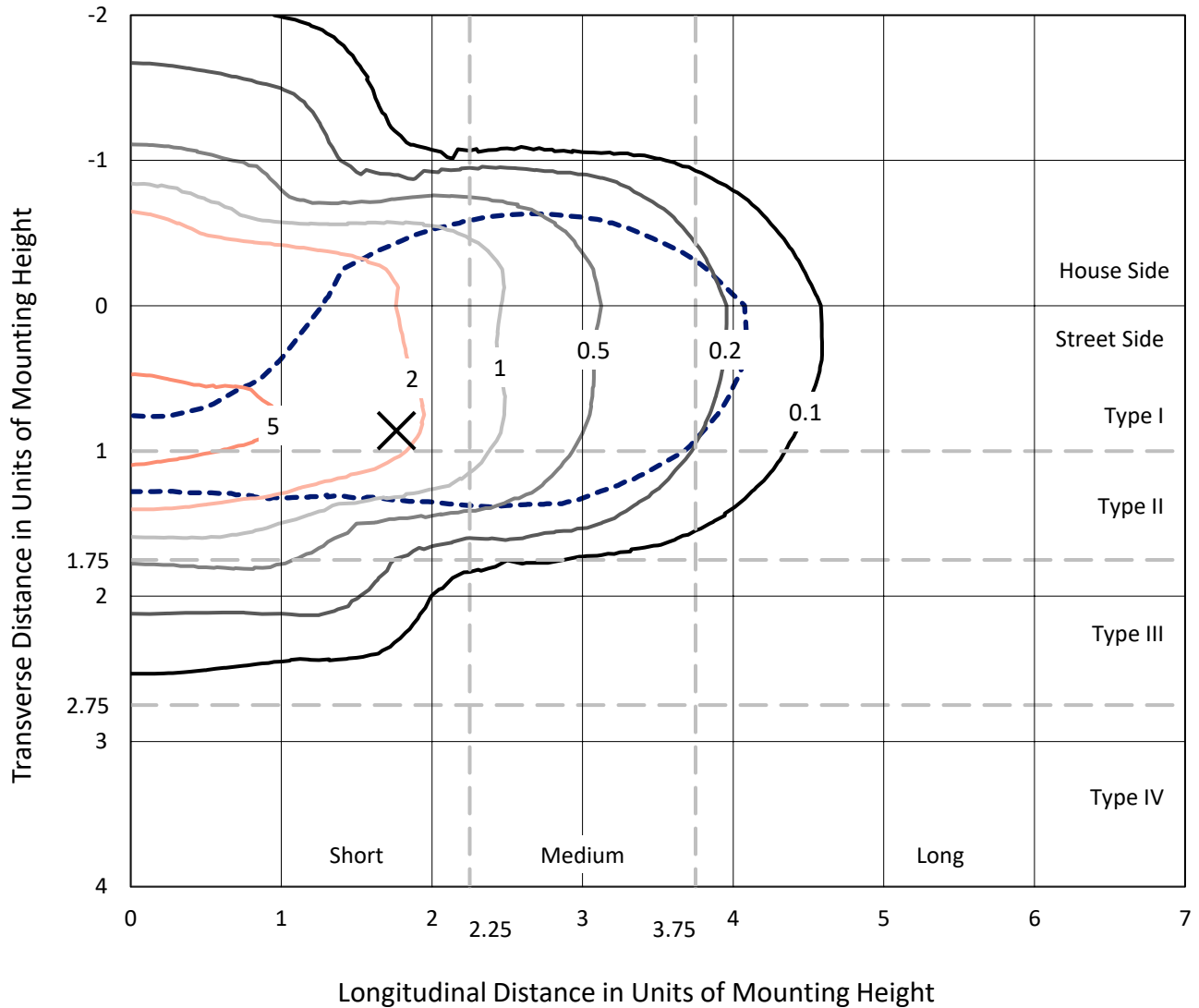
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

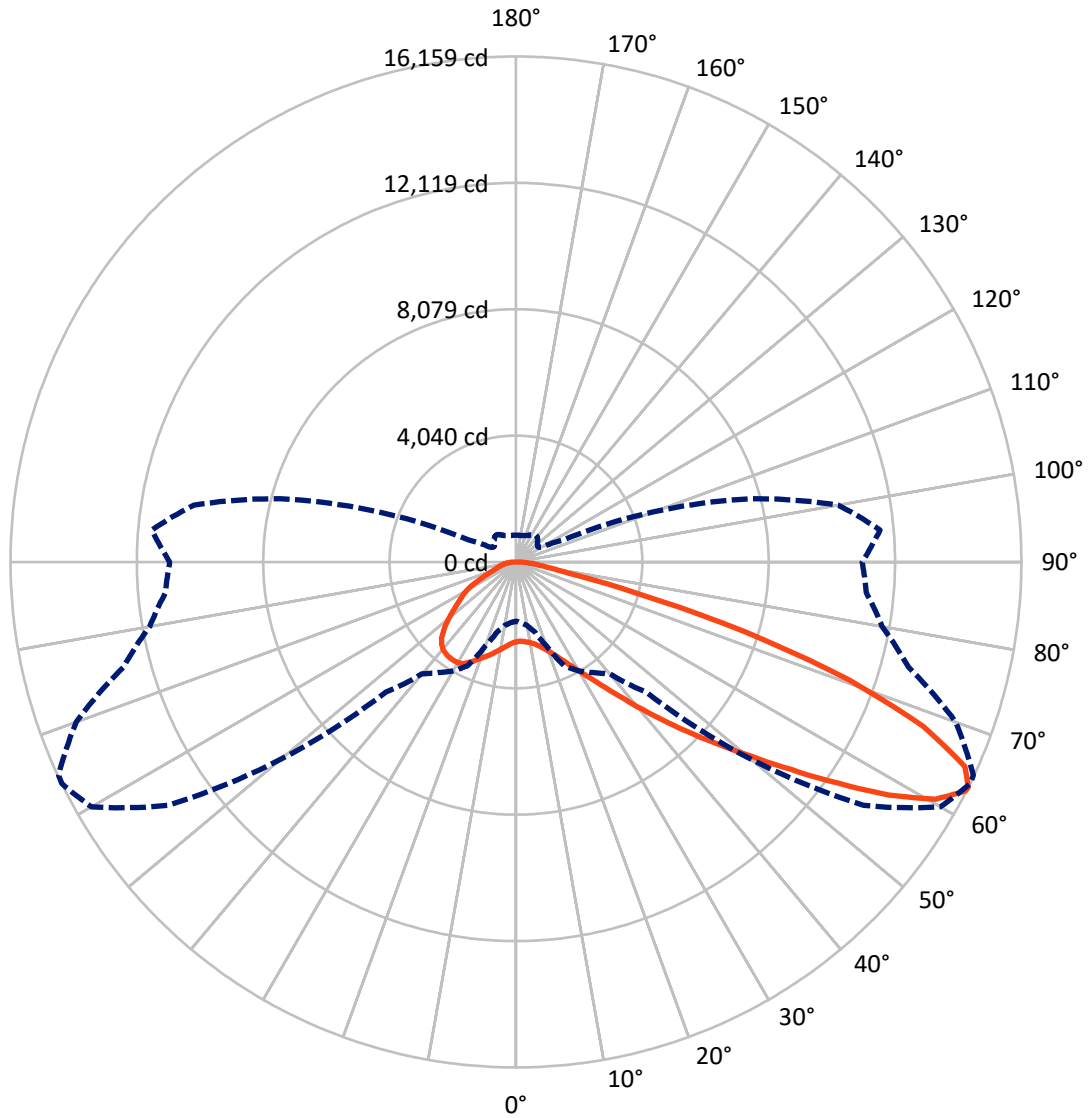
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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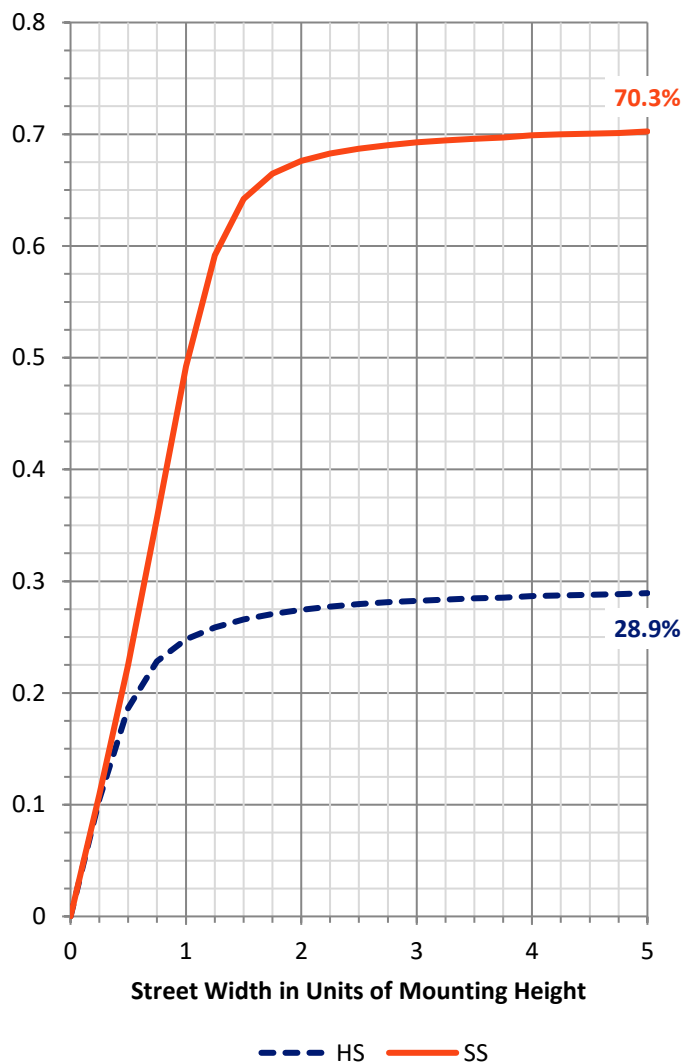
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6921.5	0.0	6921.5
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	16623.9	0.0	16623.9
	% Fixture	70.6	0.0	70.6
Total	Lumens	23545.4	0.0	23545.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	1.1
10°-20°	848.0	3.6
20°-30°	1591.8	6.8
30°-40°	2668.0	11.3
40°-50°	4476.3	19.0
50°-60°	5674.6	24.1
60°-70°	5005.8	21.3
70°-80°	2584.1	11.0
80°-90°	442.2	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°	23545.4	100.0
0°-180°	23545.4	100.0

Coefficient of Utilization



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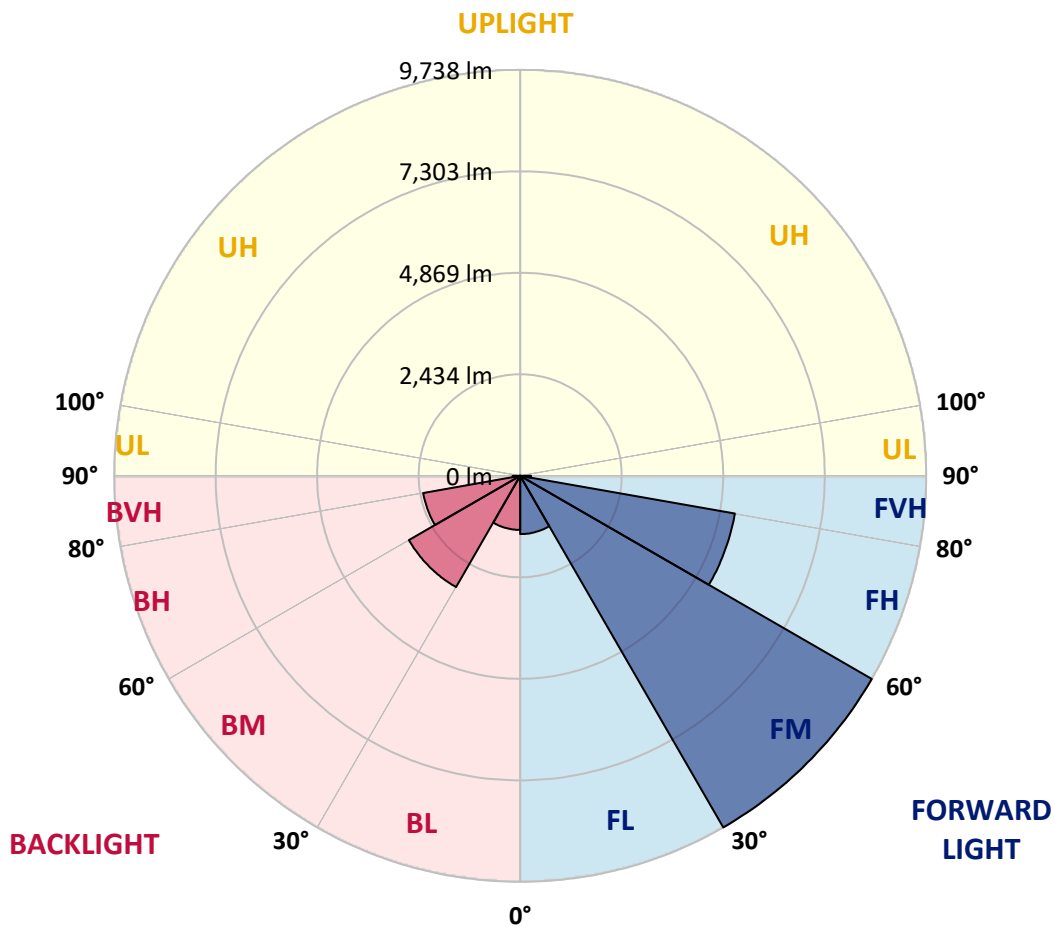
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.5	5.9			
FM (30°-60°)	9737.7	41.4			
FH (60°-80°)	5228.4	22.2			G3/7500
FVH (80°-90°)	260.2	1.1			G3/500
BL (0°-30°)	1296.8	5.5	B3/2500		
BM (30°-60°)	3081.1	13.1	B3/5000		
BH (60°-80°)	2361.6	10.0	B3/2500		G3/2500
BVH (80°-90°)	181.9	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°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2534.2	2530.2	2530.2	2530.2	2530.2	2526.3	2530.2	2538.1	2534.2	2530.2	2538.1
5°	2542.0	2538.1	2538.1	2538.1	2542.0	2538.1	2542.0	2553.9	2546.0	2546.0	2553.9
7.5°	2561.8	2557.9	2561.8	2557.9	2557.9	2557.9	2561.8	2573.6	2569.7	2573.6	2585.4
10°	2585.4	2585.4	2585.4	2585.4	2585.4	2585.4	2593.3	2601.1	2605.2	2609.1	2624.9
12.5°	2656.4	2656.4	2656.4	2652.4	2652.4	2640.6	2656.4	2664.3	2672.2	2680.0	2691.8
15°	2806.1	2806.1	2802.2	2786.4	2786.4	2762.7	2766.8	2770.7	2770.7	2778.6	2786.4
17.5°	3003.2	2999.2	2991.4	2979.5	2963.7	2936.3	2928.2	2920.4	2908.6	2904.6	2904.6
20°	3279.1	3275.1	3259.4	3227.8	3208.2	3164.8	3133.2	3101.8	3089.9	3070.1	3066.3
22.5°	3673.2	3673.2	3641.6	3594.4	3578.6	3488.0	3397.3	3330.3	3306.6	3279.1	3279.1
25°	4150.1	4146.2	4102.8	4047.6	3980.7	3886.1	3775.7	3685.0	3625.9	3562.8	3539.2
27.5°	4721.5	4709.7	4650.6	4583.7	4457.4	4339.2	4209.2	4114.6	4012.1	3933.4	3862.5
30°	5391.5	5379.7	5277.2	5151.1	5021.1	4902.9	4713.7	4599.4	4437.8	4343.2	4264.4
32.5°	6168.0	6156.1	5970.9	5848.7	5710.8	5565.0	5340.4	5159.0	4954.1	4820.1	4709.7
35°	7157.2	7109.9	6845.8	6676.4	6459.6	6313.8	6077.3	5833.1	5592.6	5403.4	5241.8
37.5°	8225.2	8170.1	7937.5	7685.3	7472.5	7295.1	6960.2	6652.7	6368.9	6108.9	5907.8
40°	9340.7	9194.8	8946.4	8761.3	8615.4	8446.0	8095.2	7772.0	7326.7	7034.9	6731.6
42.5°	10113.1	9971.2	9797.9	9675.7	9604.7	9474.6	9277.5	8997.7	8599.7	8607.6	7807.5
45°	10621.5	10412.6	10294.4	10302.3	10329.9	10329.9	10294.4	10251.0	10077.6	10195.8	9525.9
47.5°	10440.3	10302.3	10227.4	10385.1	10582.1	10779.2	11007.8	11256.1	11539.9	11874.9	11051.1
50°	9376.1	9427.3	9462.8	9797.9	10219.6	10668.8	11192.9	11870.9	12663.0	12816.7	12418.7
52.5°	7677.4	7787.8	7906.0	8418.4	8974.1	9750.6	10668.8	11788.1	12852.2	13478.9	13439.4
55°	5963.1	6100.9	6353.2	6735.5	7176.9	7910.0	9045.0	10771.4	12430.5	13427.6	14034.6
57.5°	4244.7	4445.6	4776.7	5308.8	5699.0	6112.8	6952.2	8867.7	10684.6	12540.9	13936.0
60°	2821.9	2916.4	3133.2	3795.3	4453.5	4887.0	5482.2	6175.9	7661.7	10219.6	12919.3
62.5°	2002.1	2065.2	2199.2	2498.8	3093.7	3878.1	4236.7	4556.0	5032.9	6573.9	10373.2
63°	1891.9	1947.0	2057.4	2309.5	2845.5	3657.5	4023.9	4315.6	4662.4	5880.3	9813.5
65°	1568.6	1592.2	1651.4	1773.5	2061.2	2735.2	3334.3	3511.6	3570.7	3779.6	6148.2
67.5°	1324.2	1339.9	1359.7	1395.1	1509.5	1820.8	2486.8	2711.6	2644.5	2502.7	3038.6
70°	1150.8	1162.6	1194.2	1237.6	1276.9	1355.8	1710.5	2045.5	1970.6	1777.4	1860.2
72.5°	918.4	938.0	973.5	1048.4	1127.2	1229.6	1316.3	1525.3	1478.0	1292.7	1312.4
75°	725.2	737.0	768.5	823.7	898.5	1016.8	1186.3	1257.2	1127.2	953.8	953.8
77.5°	575.5	587.3	614.8	658.2	705.5	788.2	906.6	1091.7	1012.9	717.3	713.4
80°	433.5	445.3	473.0	512.3	559.6	618.7	689.8	772.5	930.2	670.0	536.0
82.5°	319.2	323.2	370.5	398.0	413.9	461.1	520.2	567.5	638.5	618.7	476.9
85°	240.4	236.4	268.0	287.7	291.6	303.5	338.9	386.2	417.8	402.0	370.5
87.5°	134.0	118.2	138.0	157.7	157.7	161.6	169.5	197.1	224.6	216.8	197.1
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°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2538.1	2538.1	2534.2	2534.2	2538.1	2538.1	2534.2	2546.0	2553.9	2553.9	2557.9
5°	2550.0	2553.9	2550.0	2550.0	2553.9	2553.9	2557.9	2569.7	2581.5	2589.3	2601.1
7.5°	2585.4	2589.3	2585.4	2585.4	2589.3	2593.3	2601.1	2617.0	2624.9	2640.6	2660.4
10°	2624.9	2628.8	2624.9	2628.8	2632.7	2636.7	2648.5	2660.4	2672.2	2687.9	2719.5
12.5°	2695.8	2699.7	2691.8	2695.8	2707.6	2707.6	2715.5	2723.4	2743.1	2762.7	2794.3
15°	2794.3	2794.3	2786.4	2790.4	2802.2	2802.2	2806.1	2814.0	2837.7	2861.3	2892.8
17.5°	2908.6	2916.4	2912.6	2916.4	2924.4	2928.2	2928.2	2936.3	2951.9	2967.7	2999.2
20°	3062.3	3066.3	3058.3	3066.3	3074.1	3066.3	3058.3	3054.5	3062.3	3070.1	3105.7
22.5°	3271.2	3267.3	3247.5	3247.5	3247.5	3231.8	3212.1	3188.4	3188.4	3176.6	3204.2
25°	3519.5	3507.7	3480.1	3484.1	3456.4	3432.8	3397.3	3361.8	3330.3	3318.5	3322.5
27.5°	3811.2	3787.5	3759.9	3752.1	3724.4	3681.1	3622.0	3555.0	3503.7	3464.3	3456.4
30°	4177.6	4126.4	4079.0	4071.2	4028.0	3957.0	3862.5	3771.7	3685.0	3618.0	3594.4
32.5°	4611.2	4532.4	4457.4	4449.6	4378.7	4284.0	4169.8	4043.6	3917.6	3811.2	3759.9
35°	5119.6	5001.4	4930.5	4910.7	4808.3	4690.1	4563.9	4402.3	4224.9	4075.2	3980.7
37.5°	5738.4	5616.3	5494.0	5497.9	5356.1	5218.1	5048.7	4851.6	4626.9	4418.1	4284.0
40°	6503.0	6329.6	6171.9	6136.4	6014.2	5821.2	5635.9	5407.3	5131.5	4855.6	4662.4
42.5°	7429.2	7145.3	6928.6	6897.1	6735.5	6499.1	6274.4	5970.9	5691.1	5356.1	5123.6
45°	8481.5	8028.3	7768.2	7720.8	7460.7	7220.3	6948.4	6625.2	6282.3	5904.0	5628.1
47.5°	9789.9	9143.6	8702.2	8623.3	8264.7	7949.3	7665.6	7306.9	6897.1	6475.4	6171.9
50°	11315.2	10361.4	9766.2	9644.1	9163.2	8792.8	8430.2	7981.0	7543.5	7102.1	6751.2
52.5°	12844.4	11819.6	11027.4	10877.8	10168.3	9671.7	9194.8	8745.5	8229.2	7791.8	7393.7
55°	14074.0	13392.2	12473.9	12265.0	11248.1	10574.2	9947.6	9435.2	8922.8	8576.1	8107.0
57.5°	14815.0	14779.5	14054.3	13766.5	12375.4	11378.3	10680.6	10097.3	9600.7	9455.0	8832.2
60°	14795.3	15713.5	15402.2	15185.4	13514.4	12202.0	11295.4	10664.9	10255.0	10420.5	9561.4
62.5°	13892.8	15753.0	16127.3	16068.2	14728.2	12864.0	11799.9	11149.7	10932.9	11425.6	10318.0
63°	13565.6	15662.4	16158.9	16135.3	14960.8	12990.2	11886.7	11244.2	11066.9	11681.7	10456.0
65°	11464.9	14870.1	15776.6	15883.0	15461.3	13423.7	12087.7	11484.7	11464.9	12253.2	10783.2
67.5°	6987.7	12564.5	14054.3	14259.2	14755.8	13561.7	11973.4	11401.9	11685.6	12335.9	10684.6
70°	2987.4	8292.2	11295.4	11626.5	12840.3	12875.8	11646.3	11062.9	11634.4	11689.5	9983.0
72.5°	1769.6	3909.7	7689.2	8410.6	10160.4	11078.7	10897.4	10471.7	10960.5	10266.8	8501.1
75°	1253.3	1828.7	3905.7	4674.2	7074.4	8457.8	9155.4	9352.5	9332.7	8142.5	6380.8
77.5°	898.5	1174.4	1647.4	1942.9	3949.0	5430.9	6282.3	6857.6	6672.5	5450.7	3933.4
80°	626.6	811.9	1008.9	1072.1	1832.6	2790.4	3310.5	3562.8	3452.5	2723.4	1761.7
82.5°	453.2	532.1	650.3	689.8	922.2	1288.8	1533.1	1351.9	1296.7	1004.9	760.7
85°	350.7	342.8	405.9	421.7	540.0	673.9	689.8	536.0	469.0	417.8	425.7
87.5°	248.3	212.8	216.8	224.6	279.8	358.7	350.7	220.7	189.1	201.0	228.6
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°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2565.7	2569.7	2577.5	2581.5	2589.3	2589.3	2597.2	2601.1	2609.1	2617.0	2620.9
5°	2613.1	2624.9	2640.6	2648.5	2664.3	2676.1	2691.8	2699.7	2715.5	2727.3	2743.1
7.5°	2684.0	2703.6	2723.4	2747.0	2770.7	2790.4	2806.1	2825.9	2853.5	2873.1	2885.0
10°	2750.9	2778.6	2814.0	2841.7	2877.2	2904.6	2928.2	2963.7	2995.4	3022.8	3038.6
12.5°	2837.7	2873.1	2908.6	2951.9	2999.2	3034.6	3070.1	3117.5	3160.9	3192.3	3208.2
15°	2940.1	2983.5	3022.8	3074.1	3129.3	3176.6	3227.8	3279.1	3310.5	3310.5	3302.7
17.5°	3046.5	3081.9	3129.3	3188.4	3263.3	3322.5	3350.0	3357.9	3346.1	3318.5	3298.7
20°	3153.0	3184.5	3235.7	3306.6	3385.5	3397.3	3369.8	3334.3	3298.7	3251.4	3220.0
22.5°	3239.6	3283.0	3361.8	3444.6	3448.6	3381.6	3306.6	3247.5	3192.3	3137.2	3078.1
25°	3342.1	3401.2	3507.7	3539.2	3436.7	3310.5	3204.2	3117.5	3026.8	2936.3	2869.1
27.5°	3468.2	3555.0	3661.4	3570.7	3369.8	3192.3	3046.5	2916.4	2798.2	2672.2	2597.2
30°	3602.3	3736.2	3759.9	3523.4	3255.4	3026.8	2829.9	2632.7	2482.9	2368.6	2325.2
32.5°	3763.9	3937.2	3795.3	3440.7	3101.8	2802.2	2538.1	2301.6	2175.6	2104.6	2084.8
35°	4008.1	4150.1	3815.2	3353.9	2924.4	2534.2	2203.1	2013.9	1935.1	1887.8	1864.2
37.5°	4359.0	4355.1	3811.2	3247.5	2719.5	2242.5	1935.1	1801.1	1738.1	1698.7	1655.3
40°	4768.8	4512.6	3787.5	3093.7	2443.6	1962.8	1749.9	1623.8	1564.7	1517.4	1466.1
42.5°	5174.7	4619.1	3720.5	2865.3	2100.6	1761.7	1616.0	1501.5	1438.5	1387.3	1316.3
45°	5525.6	4662.4	3590.5	2550.0	1793.3	1604.0	1529.2	1430.6	1355.8	1276.9	1221.7
47.5°	5801.4	4654.6	3381.6	2179.5	1588.3	1493.7	1458.3	1391.2	1300.6	1202.1	1131.2
50°	6034.0	4595.5	3097.8	1852.4	1450.3	1395.1	1383.3	1363.7	1217.8	1135.1	1091.7
52.5°	6246.8	4508.7	2794.3	1631.7	1332.1	1284.8	1308.5	1288.8	1186.3	1115.3	1072.1
55°	6538.4	4449.6	2494.8	1462.2	1194.2	1182.4	1202.1	1229.6	1166.6	1099.5	1052.2
57.5°	6881.3	4481.2	2266.1	1273.0	1064.0	1072.1	1139.0	1178.5	1146.9	1075.9	1028.6
60°	7275.5	4575.8	2065.2	1091.7	957.6	977.5	1075.9	1131.2	1127.2	1044.4	989.3
62.5°	7716.9	4674.2	1746.0	953.8	867.1	898.5	1001.1	1072.1	1083.9	1012.9	945.8
63°	7803.6	4682.1	1663.2	926.2	851.3	886.7	981.3	1056.2	1072.1	1004.9	938.0
65°	8016.4	4611.2	1339.9	851.3	788.2	827.6	922.2	989.3	1020.8	961.7	906.6
67.5°	7839.1	4031.8	1008.9	760.7	737.0	764.6	847.3	910.4	938.0	910.4	855.3
70°	7169.0	2932.3	788.2	677.9	681.8	701.6	764.6	823.7	855.3	847.3	796.2
72.5°	5773.8	1663.2	658.2	606.9	618.7	642.5	685.8	741.0	768.5	764.6	729.1
75°	3803.2	851.3	555.7	543.9	551.8	571.4	603.0	646.4	677.9	673.9	658.2
77.5°	1883.8	591.2	476.9	480.8	484.8	500.5	524.2	563.6	583.3	587.3	583.3
80°	776.4	461.1	409.8	413.9	417.8	429.6	445.3	480.8	492.6	500.5	504.4
82.5°	465.0	350.7	327.1	335.0	338.9	350.7	362.6	394.1	405.9	417.8	417.8
85°	307.4	244.3	236.4	244.3	252.3	260.1	264.1	283.7	303.5	319.2	327.1
87.5°	165.5	145.9	141.9	145.9	145.9	153.7	161.6	181.3	205.0	220.7	228.6
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°	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2613.1	2617.0	2613.1	2617.0	2620.9
5°	2743.1	2750.9	2747.0	2747.0	2762.7
7.5°	2892.8	2908.6	2908.6	2916.4	2924.4
10°	3054.5	3070.1	3081.9	3081.9	3093.7
12.5°	3216.0	3223.9	3235.7	3235.7	3235.7
15°	3298.7	3294.8	3290.9	3286.9	3286.9
17.5°	3286.9	3271.2	3263.3	3255.4	3259.4
20°	3200.2	3172.7	3164.8	3153.0	3160.9
22.5°	3050.5	3011.0	2995.4	2975.5	2983.5
25°	2825.9	2778.6	2770.7	2747.0	2758.8
27.5°	2565.7	2542.0	2538.1	2534.2	2553.9
30°	2321.3	2329.3	2333.2	2341.1	2360.8
32.5°	2096.6	2112.5	2116.5	2120.4	2147.9
35°	1876.0	1856.4	1876.0	1868.2	1891.9
37.5°	1635.6	1619.9	1604.0	1584.4	1600.1
40°	1434.6	1407.0	1359.7	1336.0	1339.9
42.5°	1276.9	1241.5	1202.1	1178.5	1178.5
45°	1174.4	1131.2	1095.7	1079.9	1079.9
47.5°	1095.7	1075.9	1056.2	1044.4	1044.4
50°	1064.0	1040.4	1028.6	1020.8	1020.8
52.5°	1040.4	1016.8	1004.9	997.1	989.3
55°	1020.8	985.3	973.5	969.5	969.5
57.5°	993.1	961.7	945.8	942.0	942.0
60°	949.8	926.2	910.4	906.6	906.6
62.5°	906.6	882.9	867.1	867.1	867.1
63°	898.5	871.1	859.3	859.3	859.3
65°	863.1	835.5	823.7	823.7	819.8
67.5°	815.8	788.2	780.3	780.3	772.5
70°	760.7	737.0	729.1	733.0	717.3
72.5°	705.5	681.8	670.0	670.0	654.3
75°	642.5	618.7	603.0	599.1	583.3
77.5°	571.4	551.8	536.0	520.2	512.3
80°	496.6	480.8	461.1	449.3	437.5
82.5°	417.8	402.0	390.2	405.9	346.8
85°	327.1	311.4	295.5	319.2	248.3
87.5°	240.4	232.5	216.8	189.1	165.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)