

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: P265673

Luminaire Tested: **ARCH-L-AF72-200-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T2U-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 21150.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

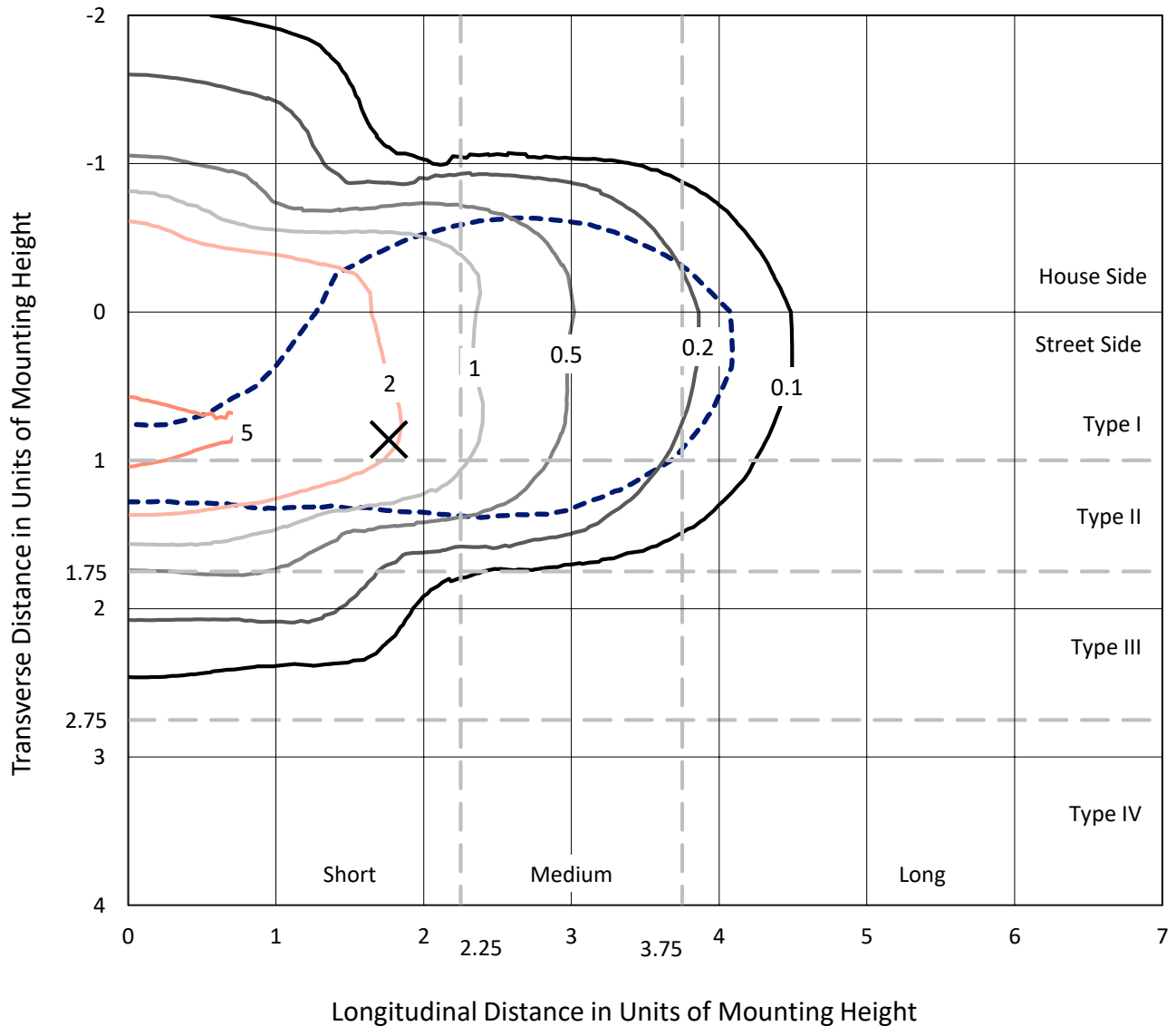
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

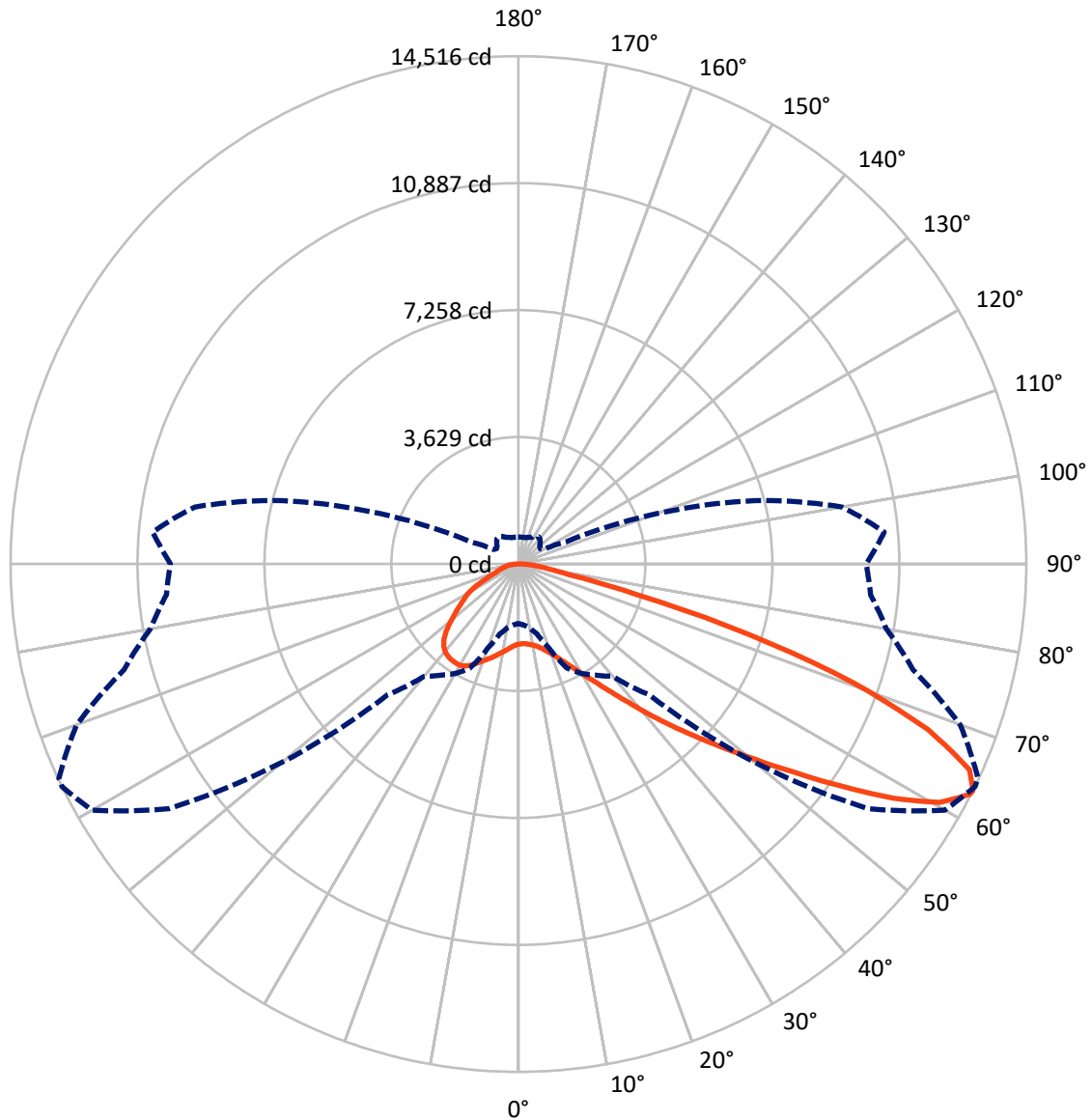


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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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	6217.6	0.0	6217.6
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	14933.3	0.0	14933.3
	% Fixture	70.6	0.0	70.6
Total	Lumens	21150.9	0.0	21150.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	1.1
10°-20°	761.7	3.6
20°-30°	1429.9	6.8
30°-40°	2396.7	11.3
40°-50°	4021.1	19.0
50°-60°	5097.5	24.1
60°-70°	4496.8	21.3
70°-80°	2321.3	11.0
80°-90°	397.2	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°	21150.9	100.0
0°-180°	21150.9	100.0



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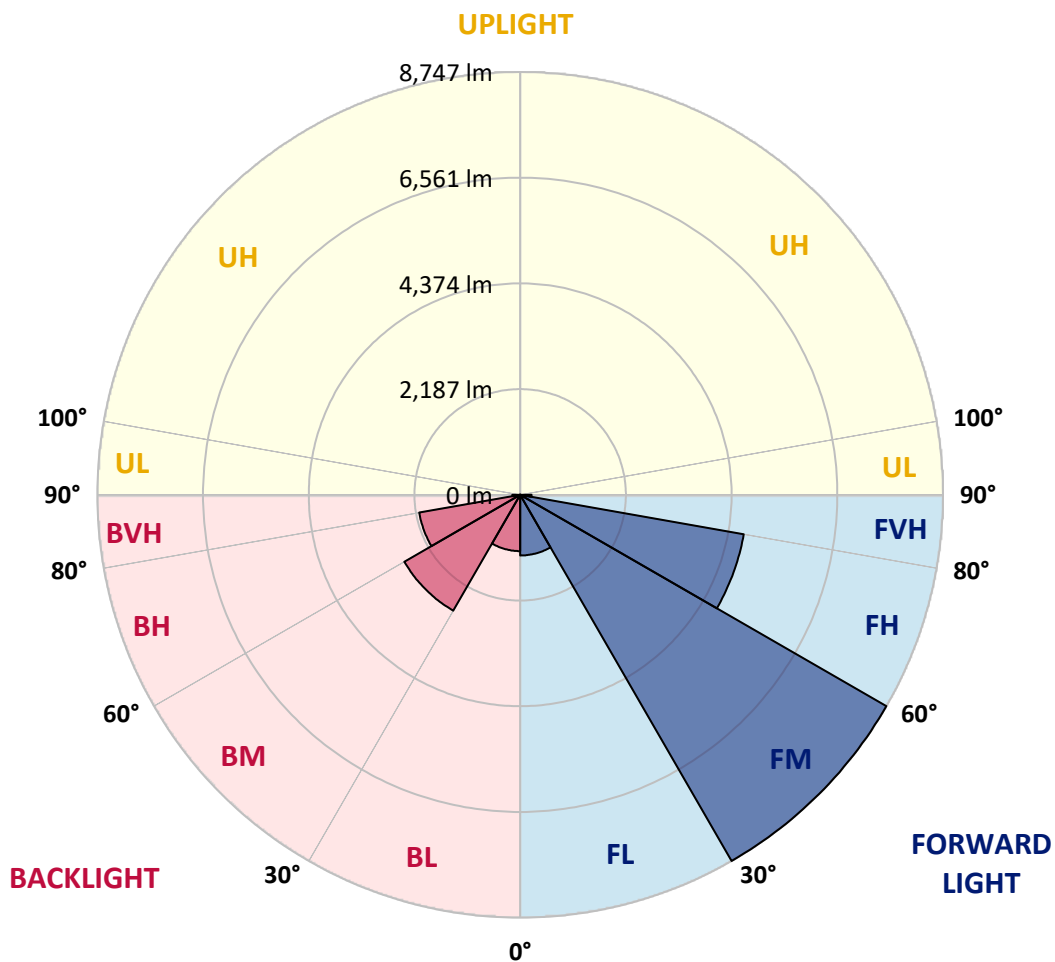
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1255.4	5.9			
FM	(30°-60°)	8747.5	41.4			
FH	(60°-80°)	4696.7	22.2			G2/5000
FVH	(80°-90°)	233.8	1.1			G3/500
BL	(0°-30°)	1165.0	5.5	B3/2500		
BM	(30°-60°)	2767.8	13.1	B3/5000		
BH	(60°-80°)	2121.4	10.0	B3/2500		G3/2500
BVH	(80°-90°)	163.4	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°	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7
2.5°	2276.5	2272.9	2272.9	2272.9	2272.9	2269.4	2272.9	2280.0	2276.5	2272.9	2280.0
5°	2283.5	2280.0	2280.0	2280.0	2283.5	2280.0	2283.5	2294.2	2287.1	2287.1	2294.2
7.5°	2301.3	2297.8	2301.3	2297.8	2297.8	2297.8	2301.3	2311.9	2308.4	2311.9	2322.5
10°	2322.5	2322.5	2322.5	2322.5	2322.5	2322.5	2329.6	2336.6	2340.3	2343.8	2358.0
12.5°	2386.3	2386.3	2386.3	2382.7	2382.7	2372.1	2386.3	2393.4	2400.5	2407.5	2418.1
15°	2520.7	2520.7	2517.2	2503.0	2503.0	2481.7	2485.4	2488.9	2488.9	2496.0	2503.0
17.5°	2697.8	2694.2	2687.2	2676.5	2662.3	2637.7	2630.4	2623.4	2612.8	2609.2	2609.2
20°	2945.6	2942.0	2927.9	2899.5	2881.9	2843.0	2814.6	2786.4	2775.7	2757.9	2754.5
22.5°	3299.7	3299.7	3271.3	3228.9	3214.7	3133.3	3051.8	2991.6	2970.3	2945.6	2945.6
25°	3728.1	3724.6	3685.6	3636.0	3575.9	3490.9	3391.7	3310.3	3257.2	3200.5	3179.3
27.5°	4241.3	4230.7	4177.7	4117.6	4004.1	3897.9	3781.1	3696.2	3604.1	3533.4	3469.7
30°	4843.2	4832.6	4740.5	4627.3	4510.5	4404.3	4234.3	4131.7	3986.5	3901.5	3830.7
32.5°	5540.7	5530.1	5363.7	5253.9	5130.0	4999.1	4797.3	4634.4	4450.3	4329.9	4230.7
35°	6429.3	6386.9	6149.6	5997.4	5802.7	5671.7	5459.3	5239.9	5023.9	4853.9	4708.7
37.5°	7388.7	7339.2	7130.3	6903.7	6712.6	6553.2	6252.4	5976.2	5721.2	5487.7	5307.0
40°	8390.8	8259.7	8036.6	7870.3	7739.3	7587.1	7272.0	6981.6	6581.6	6319.5	6047.0
42.5°	9084.6	8957.2	8801.5	8691.7	8628.0	8511.1	8334.0	8082.7	7725.2	7732.3	7013.5
45°	9541.3	9353.7	9247.5	9254.6	9279.4	9279.4	9247.5	9208.5	9052.8	9158.9	8557.2
47.5°	9378.6	9254.6	9187.3	9329.0	9506.0	9683.0	9888.4	10111.4	10366.4	10667.3	9927.3
50°	8422.6	8468.6	8500.5	8801.5	9180.3	9583.8	10054.6	10663.7	11375.2	11513.3	11155.8
52.5°	6896.6	6995.8	7102.0	7562.3	8061.5	8759.0	9583.8	10589.3	11545.2	12108.2	12072.7
55°	5356.7	5480.5	5707.1	6050.5	6447.0	7105.6	8125.2	9676.0	11166.4	12062.1	12607.4
57.5°	3813.0	3993.5	4290.9	4768.9	5119.4	5491.2	6245.2	7965.9	9598.0	11265.6	12518.8
60°	2534.9	2619.8	2814.6	3409.3	4000.6	4390.0	4924.7	5547.8	6882.5	9180.3	11605.5
62.5°	1798.5	1855.2	1975.6	2244.7	2779.1	3483.7	3805.8	4092.7	4521.1	5905.4	9318.3
63°	1699.5	1749.0	1848.2	2074.6	2556.1	3285.6	3614.7	3876.7	4188.3	5282.3	8815.5
65°	1409.1	1430.3	1483.5	1593.1	1851.6	2457.0	2995.2	3154.5	3207.6	3395.2	5523.0
67.5°	1189.5	1203.6	1221.4	1253.2	1356.0	1635.6	2233.9	2435.8	2375.6	2248.2	2729.6
70°	1033.8	1044.4	1072.8	1111.7	1147.0	1217.9	1536.6	1837.5	1770.2	1596.6	1671.0
72.5°	825.0	842.6	874.5	941.8	1012.6	1104.6	1182.4	1370.2	1327.7	1161.2	1178.9
75°	651.5	662.1	690.3	739.9	807.1	913.4	1065.7	1129.3	1012.6	856.8	856.8
77.5°	517.0	527.6	552.3	591.3	633.8	708.0	814.4	980.7	909.9	644.4	640.9
80°	389.4	400.0	424.9	460.2	502.7	555.8	619.7	693.9	835.6	601.9	481.5
82.5°	286.7	290.3	332.8	357.5	371.8	414.2	467.3	509.8	573.6	555.8	428.4
85°	216.0	212.4	240.7	258.4	261.9	272.6	304.4	346.9	375.3	361.1	332.8
87.5°	120.4	106.2	124.0	141.7	141.7	145.2	152.3	177.1	201.8	194.8	177.1
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°	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7
2.5°	2280.0	2280.0	2276.5	2276.5	2280.0	2280.0	2276.5	2287.1	2294.2	2294.2	2297.8
5°	2290.7	2294.2	2290.7	2290.7	2294.2	2294.2	2297.8	2308.4	2319.0	2326.0	2336.6
7.5°	2322.5	2326.0	2322.5	2322.5	2326.0	2329.6	2336.6	2350.9	2358.0	2372.1	2389.9
10°	2358.0	2361.5	2358.0	2361.5	2365.0	2368.6	2379.2	2389.9	2400.5	2414.6	2442.9
12.5°	2421.7	2425.2	2418.1	2421.7	2432.3	2432.3	2439.3	2446.4	2464.1	2481.7	2510.1
15°	2510.1	2510.1	2503.0	2506.6	2517.2	2517.2	2520.7	2527.8	2549.1	2570.3	2598.6
17.5°	2612.8	2619.8	2616.4	2619.8	2627.0	2630.4	2630.4	2637.7	2651.7	2665.9	2694.2
20°	2750.9	2754.5	2747.3	2754.5	2761.5	2754.5	2747.3	2743.9	2750.9	2757.9	2789.9
22.5°	2938.5	2935.0	2917.2	2917.2	2917.2	2903.1	2885.4	2864.2	2864.2	2853.6	2878.3
25°	3161.6	3151.0	3126.2	3129.8	3104.9	3083.7	3051.8	3019.9	2991.6	2981.0	2984.6
27.5°	3423.6	3402.3	3377.5	3370.5	3345.6	3306.8	3253.7	3193.5	3147.4	3112.0	3104.9
30°	3752.8	3706.8	3664.2	3657.2	3618.4	3554.6	3469.7	3388.1	3310.3	3250.1	3228.9
32.5°	4142.3	4071.5	4004.1	3997.1	3933.4	3848.3	3745.8	3632.4	3519.2	3423.6	3377.5
35°	4599.0	4492.8	4429.1	4411.3	4319.3	4213.1	4099.8	3954.6	3795.2	3660.8	3575.9
37.5°	5154.8	5045.2	4935.3	4938.8	4811.4	4687.4	4535.3	4358.2	4156.4	3968.8	3848.3
40°	5841.7	5685.9	5544.2	5512.4	5402.6	5229.2	5062.8	4857.4	4609.7	4361.8	4188.3
42.5°	6673.7	6418.7	6224.0	6195.7	6050.5	5838.2	5636.3	5363.7	5112.3	4811.4	4602.6
45°	7619.0	7211.9	6978.2	6935.6	6702.0	6486.0	6241.8	5951.5	5643.4	5303.6	5055.8
47.5°	8794.3	8213.7	7817.2	7746.4	7424.2	7140.9	6886.0	6563.8	6195.7	5816.9	5544.2
50°	10164.5	9307.7	8773.0	8663.3	8231.3	7898.6	7572.9	7169.4	6776.4	6379.9	6064.6
52.5°	11538.2	10617.6	9906.0	9771.6	9134.2	8688.1	8259.7	7856.1	7392.3	6999.4	6641.8
55°	12642.7	12030.3	11205.4	11017.7	10104.2	9498.9	8936.0	8475.7	8015.4	7704.0	7282.6
57.5°	13308.4	13276.5	12625.0	12366.5	11116.9	10221.2	9594.4	9070.5	8624.4	8493.5	7934.0
60°	13290.7	14115.5	13835.9	13641.1	12140.1	10961.1	10146.7	9580.3	9212.1	9360.8	8589.1
62.5°	12480.0	14151.0	14487.2	14434.1	13230.4	11555.8	10599.9	10015.8	9821.1	10263.7	9268.7
63°	12186.0	14069.6	14515.6	14494.4	13439.4	11669.2	10677.9	10100.7	9941.5	10493.7	9392.7
65°	10299.0	13357.9	14172.2	14267.8	13889.0	12058.6	10858.4	10316.8	10299.0	11007.1	9686.6
67.5°	6277.1	11286.8	12625.0	12809.1	13255.2	12182.5	10755.8	10242.4	10497.2	11081.4	9598.0
70°	2683.6	7448.9	10146.7	10444.1	11534.5	11566.4	10461.9	9937.9	10451.2	10500.7	8967.8
72.5°	1589.6	3512.1	6907.2	7555.3	9127.1	9952.1	9789.2	9406.8	9845.9	9222.7	7636.6
75°	1125.8	1642.7	3508.5	4198.9	6355.0	7597.7	8224.3	8401.4	8383.6	7314.4	5731.9
77.5°	807.1	1055.0	1479.9	1745.3	3547.4	4878.6	5643.4	6160.2	5993.9	4896.4	3533.4
80°	562.9	729.3	906.3	963.1	1646.2	2506.6	2973.8	3200.5	3101.4	2446.4	1582.5
82.5°	407.1	478.0	584.2	619.7	828.4	1157.7	1377.2	1214.4	1164.8	902.7	683.3
85°	315.0	307.9	364.6	378.8	485.1	605.4	619.7	481.5	421.3	375.3	382.4
87.5°	223.0	191.2	194.8	201.8	251.3	322.2	315.0	198.3	169.9	180.6	205.4
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°	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7	2290.7
2.5°	2304.8	2308.4	2315.4	2319.0	2326.0	2326.0	2333.1	2336.6	2343.8	2350.9	2354.4
5°	2347.4	2358.0	2372.1	2379.2	2393.4	2404.0	2418.1	2425.2	2439.3	2449.9	2464.1
7.5°	2411.1	2428.7	2446.4	2467.6	2488.9	2506.6	2520.7	2538.5	2563.3	2580.9	2591.6
10°	2471.1	2496.0	2527.8	2552.7	2584.6	2609.2	2630.4	2662.3	2690.8	2715.4	2729.6
12.5°	2549.1	2580.9	2612.8	2651.7	2694.2	2726.0	2757.9	2800.5	2839.5	2867.7	2881.9
15°	2641.1	2680.1	2715.4	2761.5	2811.1	2853.6	2899.5	2945.6	2973.8	2973.8	2966.8
17.5°	2736.7	2768.5	2811.1	2864.2	2931.4	2984.6	3009.3	3016.4	3005.8	2981.0	2963.2
20°	2832.4	2860.7	2906.6	2970.3	3041.2	3051.8	3027.1	2995.2	2963.2	2920.7	2892.5
22.5°	2910.1	2949.1	3019.9	3094.3	3097.9	3037.7	2970.3	2917.2	2867.7	2818.2	2765.1
25°	3002.2	3055.3	3151.0	3179.3	3087.2	2973.8	2878.3	2800.5	2719.0	2637.7	2577.3
27.5°	3115.5	3193.5	3289.1	3207.6	3027.1	2867.7	2736.7	2619.8	2513.6	2400.5	2333.1
30°	3236.0	3356.2	3377.5	3165.1	2924.3	2719.0	2542.1	2365.0	2230.4	2127.7	2088.7
32.5°	3381.1	3536.8	3409.3	3090.8	2786.4	2517.2	2280.0	2067.5	1954.4	1890.6	1872.8
35°	3600.5	3728.1	3427.2	3012.8	2627.0	2276.5	1979.1	1809.1	1738.3	1695.8	1674.6
37.5°	3915.7	3912.2	3423.6	2917.2	2442.9	2014.4	1738.3	1617.9	1561.3	1526.0	1487.0
40°	4283.8	4053.7	3402.3	2779.1	2195.1	1763.2	1571.9	1458.7	1405.6	1363.1	1317.0
42.5°	4648.5	4149.4	3342.1	2573.9	1887.0	1582.5	1451.7	1348.8	1292.2	1246.2	1182.4
45°	4963.7	4188.3	3225.4	2290.7	1610.9	1440.9	1373.7	1285.1	1217.9	1147.0	1097.5
47.5°	5211.4	4181.3	3037.7	1957.9	1426.8	1341.8	1310.0	1249.7	1168.3	1079.9	1016.2
50°	5420.4	4128.2	2782.8	1664.0	1302.8	1253.2	1242.6	1225.0	1094.0	1019.7	980.7
52.5°	5611.5	4050.2	2510.1	1465.8	1196.6	1154.1	1175.4	1157.7	1065.7	1001.9	963.1
55°	5873.5	3997.1	2241.1	1313.5	1072.8	1062.2	1079.9	1104.6	1048.0	987.7	945.2
57.5°	6181.5	4025.5	2035.6	1143.5	955.8	963.1	1023.2	1058.7	1030.3	966.5	924.0
60°	6535.6	4110.5	1855.2	980.7	860.2	878.1	966.5	1016.2	1012.6	938.2	888.7
62.5°	6932.1	4198.9	1568.4	856.8	778.9	807.1	899.3	963.1	973.7	909.9	849.6
63°	7010.0	4206.0	1494.1	832.0	764.7	796.5	881.5	948.8	963.1	902.7	842.6
65°	7201.2	4142.3	1203.6	764.7	708.0	743.4	828.4	888.7	917.0	863.9	814.4
67.5°	7041.9	3621.8	906.3	683.3	662.1	686.8	761.1	817.8	842.6	817.8	768.3
70°	6439.9	2634.1	708.0	609.0	612.5	630.3	686.8	739.9	768.3	761.1	715.2
72.5°	5186.6	1494.1	591.3	545.2	555.8	577.2	616.1	665.6	690.3	686.8	655.0
75°	3416.4	764.7	499.2	488.6	495.7	513.3	541.7	580.7	609.0	605.4	591.3
77.5°	1692.2	531.1	428.4	431.9	435.5	449.6	470.9	506.3	524.0	527.6	524.0
80°	697.4	414.2	368.1	371.8	375.3	385.9	400.0	431.9	442.5	449.6	453.1
82.5°	417.7	315.0	293.8	300.9	304.4	315.0	325.7	354.0	364.6	375.3	375.3
85°	276.1	219.5	212.4	219.5	226.6	233.6	237.2	254.8	272.6	286.7	293.8
87.5°	148.7	131.1	127.5	131.1	131.1	138.1	145.2	162.9	184.2	198.3	205.4
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°	2290.7	2290.7	2290.7	2290.7	2290.7
2.5°	2347.4	2350.9	2347.4	2350.9	2354.4
5°	2464.1	2471.1	2467.6	2467.6	2481.7
7.5°	2598.6	2612.8	2612.8	2619.8	2627.0
10°	2743.9	2757.9	2768.5	2768.5	2779.1
12.5°	2888.9	2896.0	2906.6	2906.6	2906.6
15°	2963.2	2959.7	2956.2	2952.6	2952.6
17.5°	2952.6	2938.5	2931.4	2924.3	2927.9
20°	2874.8	2850.1	2843.0	2832.4	2839.5
22.5°	2740.3	2704.8	2690.8	2672.9	2680.1
25°	2538.5	2496.0	2488.9	2467.6	2478.2
27.5°	2304.8	2283.5	2280.0	2276.5	2294.2
30°	2085.2	2092.4	2095.9	2103.0	2120.7
32.5°	1883.4	1897.7	1901.3	1904.8	1929.5
35°	1685.2	1667.6	1685.2	1678.2	1699.5
37.5°	1469.3	1455.2	1440.9	1423.3	1437.4
40°	1288.7	1263.9	1221.4	1200.1	1203.6
42.5°	1147.0	1115.2	1079.9	1058.7	1058.7
45°	1055.0	1016.2	984.3	970.1	970.1
47.5°	984.3	966.5	948.8	938.2	938.2
50°	955.8	934.6	924.0	917.0	917.0
52.5°	934.6	913.4	902.7	895.7	888.7
55°	917.0	885.1	874.5	870.9	870.9
57.5°	892.1	863.9	849.6	846.2	846.2
60°	853.2	832.0	817.8	814.4	814.4
62.5°	814.4	793.1	778.9	778.9	778.9
63°	807.1	782.5	771.9	771.9	771.9
65°	775.3	750.5	739.9	739.9	736.4
67.5°	732.8	708.0	700.9	700.9	693.9
70°	683.3	662.1	655.0	658.5	644.4
72.5°	633.8	612.5	601.9	601.9	587.8
75°	577.2	555.8	541.7	538.2	524.0
77.5°	513.3	495.7	481.5	467.3	460.2
80°	446.1	431.9	414.2	403.6	393.0
82.5°	375.3	361.1	350.5	364.6	311.5
85°	293.8	279.7	265.4	286.7	223.0
87.5°	216.0	208.9	194.8	169.9	148.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)