

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: P265727

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265727
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-AF72-260-D-U-T2U-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25039.6 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

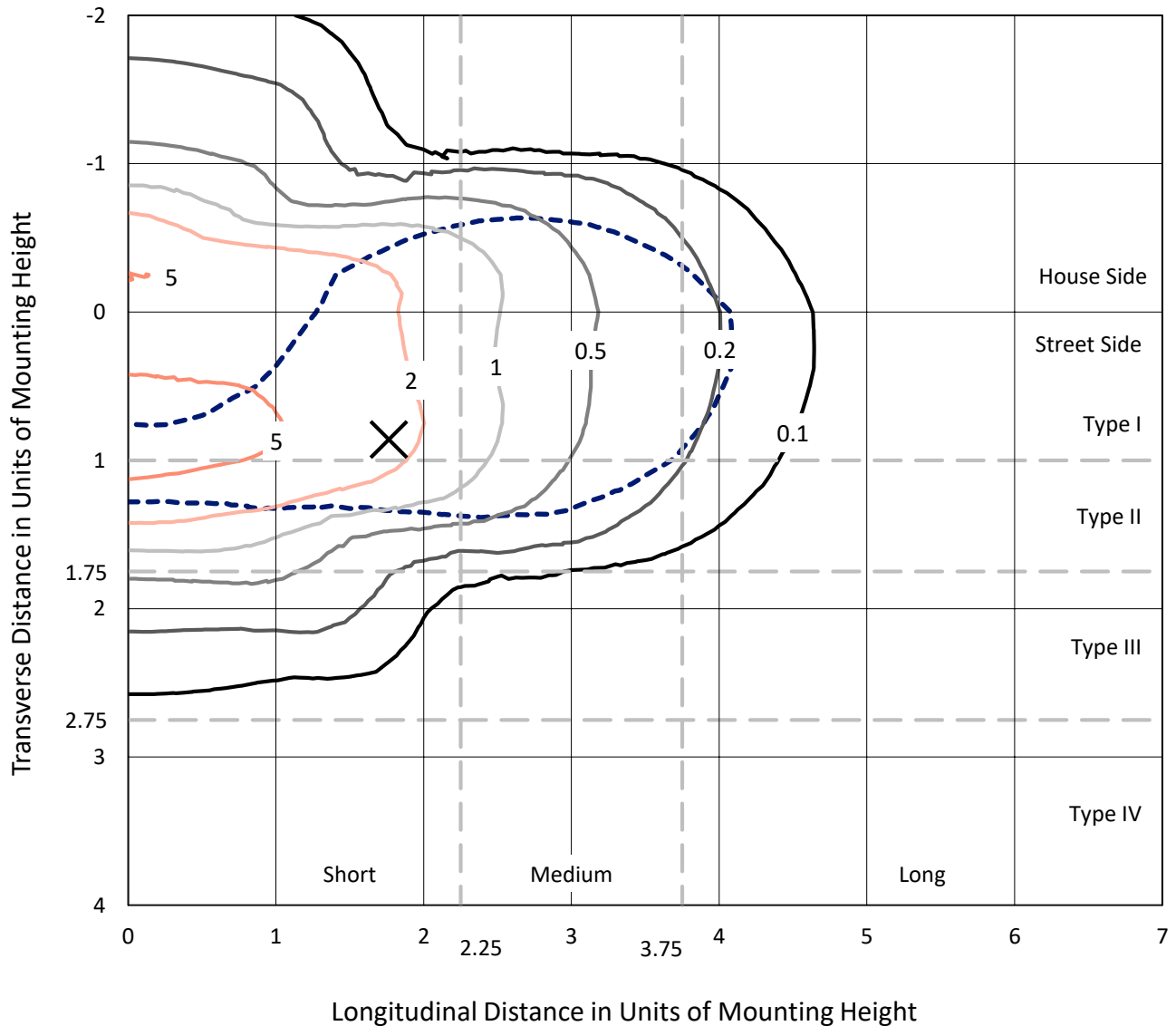
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

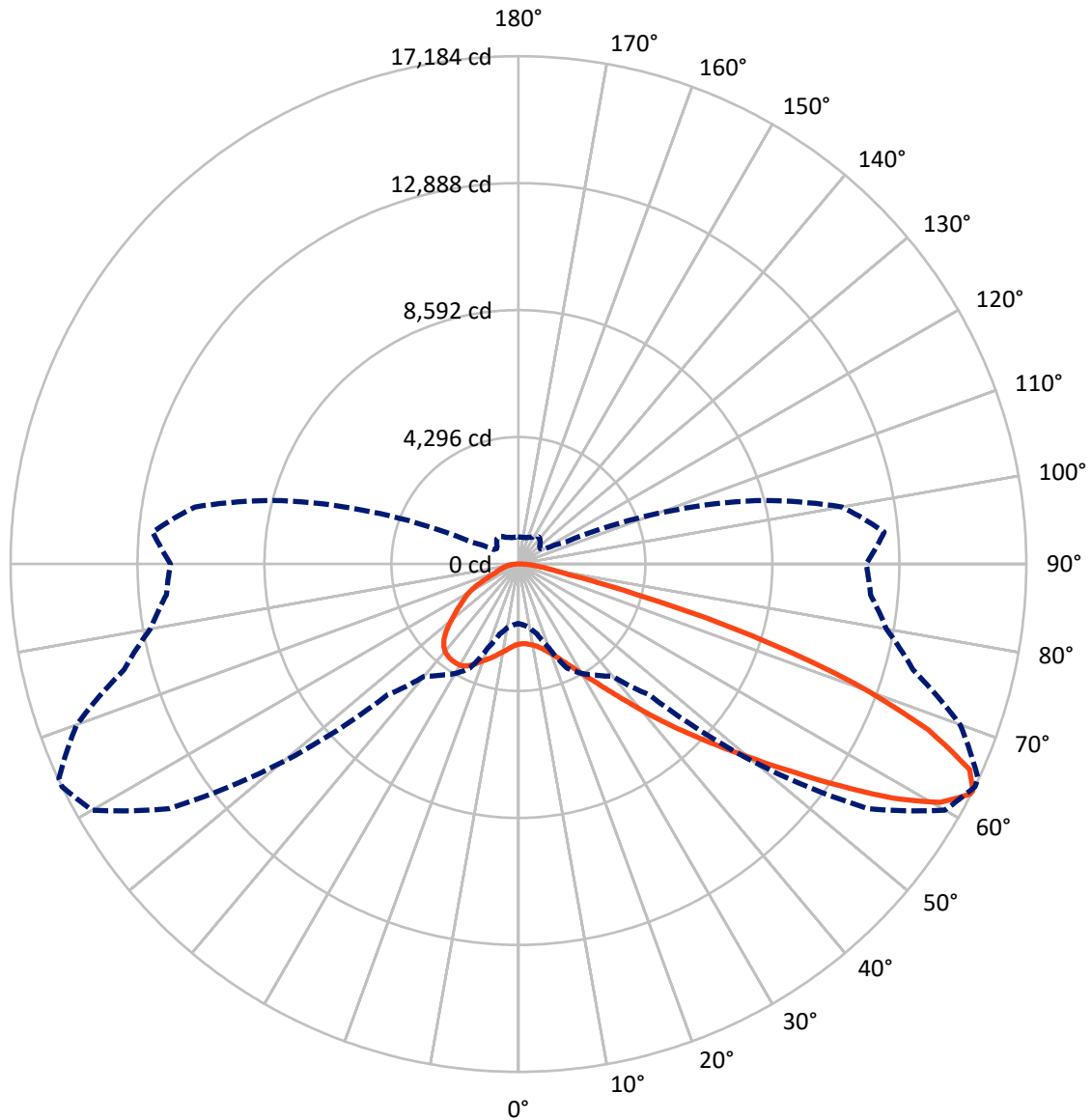


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Semi-Cutoff

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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	7360.7	0.0	7360.7
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	17678.8	0.0	17678.8
	% Fixture	70.6	0.0	70.6
Total	Lumens	25039.6	0.0	25039.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	1.1
10°-20°	901.8	3.6
20°-30°	1692.8	6.8
30°-40°	2837.3	11.3
40°-50°	4760.4	19.0
50°-60°	6034.7	24.1
60°-70°	5323.5	21.3
70°-80°	2748.1	11.0
80°-90°	470.2	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°	25039.6	100.0
0°-180°	25039.6	100.0



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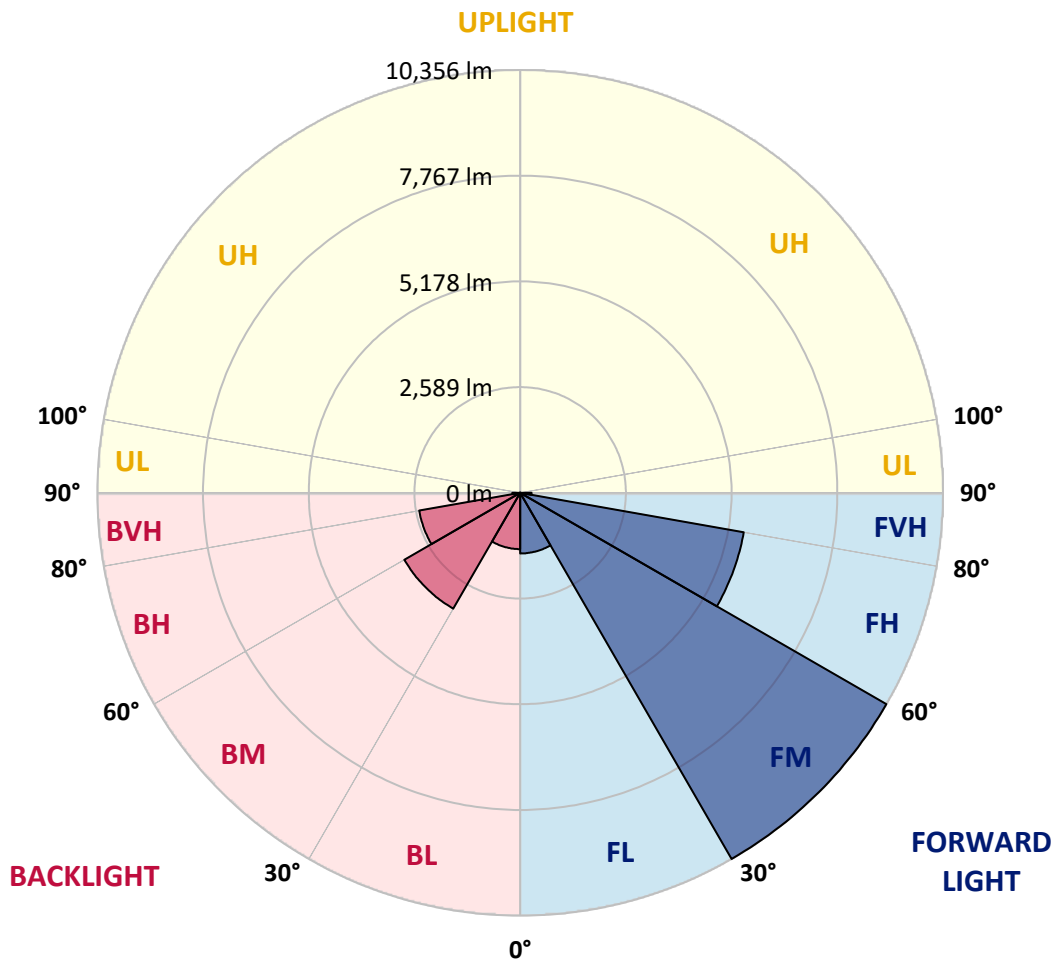
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1486.2	5.9			
FM	(30°-60°)	10355.7	41.4			
FH	(60°-80°)	5560.2	22.2			G3/7500
FVH	(80°-90°)	276.7	1.1			G3/500
BL	(0°-30°)	1379.2	5.5	B3/2500		
BM	(30°-60°)	3276.6	13.1	B3/5000		
BH	(60°-80°)	2511.4	10.0	B4/5000		G4/5000
BVH	(80°-90°)	193.5	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°	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8
2.5°	2695.1	2690.9	2690.9	2690.9	2690.9	2686.7	2690.9	2699.1	2695.1	2690.9	2699.1
5°	2703.4	2699.1	2699.1	2699.1	2703.4	2699.1	2703.4	2715.9	2707.6	2707.6	2715.9
7.5°	2724.4	2720.2	2724.4	2720.2	2720.2	2720.2	2724.4	2737.0	2732.7	2737.0	2749.5
10°	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2757.8	2766.3	2770.5	2774.7	2791.5
12.5°	2824.9	2824.9	2824.9	2820.8	2820.8	2808.2	2824.9	2833.3	2841.7	2850.1	2862.7
15°	2984.2	2984.2	2979.9	2963.2	2963.2	2938.0	2942.3	2946.5	2946.5	2954.9	2963.2
17.5°	3193.7	3189.6	3181.2	3168.6	3151.9	3122.5	3114.2	3105.8	3093.1	3089.0	3089.0
20°	3487.2	3483.0	3466.2	3432.7	3411.8	3365.6	3332.2	3298.5	3286.0	3265.0	3260.8
22.5°	3906.3	3906.3	3872.8	3822.5	3805.7	3709.3	3613.0	3541.7	3516.5	3487.2	3487.2
25°	4413.5	4409.2	4363.2	4304.5	4233.3	4132.7	4015.2	3918.9	3856.1	3789.0	3763.8
27.5°	5021.2	5008.6	4945.8	4874.6	4740.4	4614.7	4476.3	4375.7	4266.8	4182.9	4107.5
30°	5733.7	5721.1	5612.2	5478.0	5339.7	5214.0	5012.8	4891.2	4719.4	4618.8	4535.1
32.5°	6559.5	6546.8	6349.8	6220.0	6073.3	5918.2	5679.3	5486.4	5268.5	5126.0	5008.6
35°	7611.3	7561.2	7280.4	7100.1	6869.6	6714.6	6462.9	6203.2	5947.5	5746.3	5574.4
37.5°	8747.2	8688.5	8441.4	8173.0	7946.6	7758.1	7401.9	7075.0	6773.1	6496.5	6282.7
40°	9933.4	9778.3	9514.3	9317.3	9162.3	8982.0	8608.9	8265.2	7791.5	7481.4	7158.8
42.5°	10754.9	10604.0	10419.6	10289.6	10214.2	10075.8	9866.4	9568.7	9145.5	9153.8	8302.9
45°	11295.6	11073.4	10947.6	10956.1	10985.5	10985.5	10947.6	10901.7	10717.1	10842.9	10130.4
47.5°	11102.7	10956.1	10876.4	11044.1	11253.6	11463.2	11706.4	11970.4	12272.1	12628.5	11752.4
50°	9971.0	10025.7	10063.4	10419.6	10868.1	11345.9	11903.4	12624.2	13466.6	13630.2	13206.8
52.5°	8164.6	8282.1	8407.7	8952.6	9543.7	10369.2	11345.9	12536.1	13667.8	14334.3	14292.4
55°	6341.5	6488.2	6756.4	7162.9	7632.4	8412.0	9619.1	11454.8	13219.4	14279.7	14925.2
57.5°	4514.1	4727.8	5079.8	5645.7	6060.7	6500.8	7393.5	9430.4	11362.7	13336.7	14820.4
60°	3001.0	3101.6	3332.2	4036.3	4736.1	5197.2	5830.1	6567.8	8147.8	10868.1	13739.0
62.5°	2129.3	2196.3	2338.7	2657.2	3290.2	4124.3	4505.7	4845.2	5352.3	6991.1	11031.5
63°	2011.8	2070.6	2187.8	2456.1	3026.1	3889.5	4279.3	4589.5	4958.4	6253.5	10436.4
65°	1668.2	1693.2	1756.1	1886.1	2192.0	2908.7	3545.8	3734.4	3797.3	4019.5	6538.5
67.5°	1408.3	1425.0	1446.0	1483.7	1605.4	1936.3	2644.7	2883.6	2812.4	2661.5	3231.6
70°	1223.9	1236.4	1269.9	1316.0	1358.0	1441.8	1819.0	2175.2	2095.7	1890.3	1978.2
72.5°	976.5	997.6	1035.2	1114.8	1198.7	1307.8	1399.9	1622.0	1571.8	1374.8	1395.6
75°	771.3	783.9	817.3	875.9	955.5	1081.4	1261.6	1337.0	1198.7	1014.2	1014.2
77.5°	611.9	624.5	653.8	700.0	750.3	838.3	964.1	1161.0	1077.2	762.8	758.6
80°	461.0	473.6	503.0	544.9	595.1	658.1	733.5	821.5	989.2	712.5	570.1
82.5°	339.5	343.7	393.9	423.3	440.1	490.4	553.3	603.5	678.9	658.1	507.2
85°	255.7	251.4	285.0	306.0	310.2	322.8	360.5	410.7	444.3	427.6	393.9
87.5°	142.6	125.8	146.8	167.7	167.7	171.8	180.2	209.6	238.9	230.5	209.6
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):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8
2.5°	2699.1	2699.1	2695.1	2695.1	2699.1	2699.1	2695.1	2707.6	2715.9	2715.9	2720.2
5°	2711.8	2715.9	2711.8	2711.8	2715.9	2715.9	2720.2	2732.7	2745.3	2753.7	2766.3
7.5°	2749.5	2753.7	2749.5	2749.5	2753.7	2757.8	2766.3	2782.9	2791.5	2808.2	2829.1
10°	2791.5	2795.5	2791.5	2795.5	2799.7	2804.0	2816.5	2829.1	2841.7	2858.4	2892.1
12.5°	2866.9	2871.1	2862.7	2866.9	2879.4	2879.4	2887.8	2896.1	2917.2	2938.0	2971.7
15°	2971.7	2971.7	2963.2	2967.5	2979.9	2979.9	2984.2	2992.7	3017.8	3042.9	3076.4
17.5°	3093.1	3101.6	3097.4	3101.6	3109.9	3114.2	3114.2	3122.5	3139.2	3156.0	3189.6
20°	3256.6	3260.8	3252.5	3260.8	3269.2	3260.8	3252.5	3248.2	3256.6	3265.0	3302.8
22.5°	3478.7	3474.6	3453.7	3453.7	3453.7	3436.8	3416.0	3390.7	3390.7	3378.2	3407.5
25°	3742.9	3730.2	3700.8	3705.1	3675.8	3650.6	3613.0	3575.2	3541.7	3529.1	3533.3
27.5°	4053.1	4027.8	3998.4	3990.1	3960.7	3914.6	3851.8	3780.5	3726.1	3684.2	3675.8
30°	4442.7	4388.3	4337.9	4329.7	4283.5	4208.1	4107.5	4011.1	3918.9	3847.6	3822.5
32.5°	4903.8	4819.9	4740.4	4732.0	4656.5	4555.9	4434.5	4300.2	4166.2	4053.1	3998.4
35°	5444.4	5318.8	5243.3	5222.3	5113.4	4987.7	4853.5	4681.6	4493.1	4333.9	4233.3
37.5°	6102.5	5972.7	5842.7	5846.9	5696.1	5549.3	5369.1	5159.4	4920.6	4698.4	4555.9
40°	6915.6	6731.2	6563.6	6525.8	6395.9	6190.6	5993.6	5750.5	5457.1	5163.6	4958.4
42.5°	7900.7	7598.9	7368.3	7334.8	7162.9	6911.5	6672.6	6349.8	6052.2	5696.1	5448.7
45°	9019.7	8537.8	8261.1	8210.8	7934.1	7678.4	7389.3	7045.5	6681.0	6278.6	5985.1
47.5°	10411.1	9723.9	9254.3	9170.5	8789.1	8453.9	8152.1	7770.7	7334.8	6886.2	6563.6
50°	12033.2	11018.9	10386.1	10256.0	9744.8	9350.7	8965.3	8487.4	8022.1	7552.7	7179.8
52.5°	13659.4	12569.8	11727.3	11568.1	10813.5	10285.5	9778.3	9300.5	8751.5	8286.2	7862.9
55°	14967.1	14242.1	13265.5	13043.3	11962.0	11245.3	10578.9	10034.0	9489.2	9120.3	8621.6
57.5°	15755.2	15717.4	14946.2	14640.2	13160.7	12100.3	11358.3	10738.1	10210.0	10055.0	9392.7
60°	15734.2	16710.7	16379.7	16149.1	14372.0	12976.2	12012.2	11341.7	10905.8	11081.9	10168.2
62.5°	14774.3	16752.6	17150.8	17088.0	15662.8	13680.4	12548.8	11857.2	11626.7	12150.6	10972.8
63°	14426.5	16656.3	17184.3	17159.2	15910.2	13814.6	12640.9	11957.8	11769.1	12423.0	11119.5
65°	12192.4	15813.9	16777.9	16891.0	16442.4	14275.5	12854.7	12213.4	12192.4	13030.8	11467.5
67.5°	7431.1	13361.8	14946.2	15164.2	15692.2	14422.3	12733.1	12125.4	12427.2	13118.8	11362.7
70°	3177.0	8818.5	12012.2	12364.4	13655.2	13693.0	12385.3	11765.0	12372.7	12431.5	10616.6
72.5°	1881.9	4157.7	8177.2	8944.2	10805.3	11781.8	11588.9	11136.3	11656.0	10918.4	9040.6
75°	1332.8	1944.8	4153.7	4971.0	7523.3	8994.5	9736.4	9945.9	9925.1	8659.2	6785.7
77.5°	955.5	1249.1	1752.0	2066.3	4199.7	5775.7	6681.0	7292.9	7095.9	5796.6	4182.9
80°	666.5	863.5	1072.9	1139.9	1949.0	2967.5	3520.6	3789.0	3671.6	2896.1	1873.5
82.5°	482.0	565.8	691.5	733.5	980.8	1370.5	1630.5	1437.6	1379.0	1068.8	809.0
85°	373.1	364.6	431.6	448.4	574.1	716.7	733.5	570.1	498.7	444.3	452.7
87.5°	264.0	226.4	230.5	238.9	297.6	381.4	373.1	234.6	201.2	213.7	243.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8	2711.8
2.5°	2728.5	2732.7	2741.1	2745.3	2753.7	2753.7	2762.1	2766.3	2774.7	2782.9	2787.3
5°	2778.8	2791.5	2808.2	2816.5	2833.3	2845.9	2862.7	2871.1	2887.8	2900.4	2917.2
7.5°	2854.3	2875.2	2896.1	2921.4	2946.5	2967.5	2984.2	3005.2	3034.6	3055.4	3068.0
10°	2925.5	2954.9	2992.7	3021.9	3059.6	3089.0	3114.2	3151.9	3185.4	3214.8	3231.6
12.5°	3017.8	3055.4	3093.1	3139.2	3189.6	3227.3	3265.0	3315.4	3361.4	3395.0	3411.8
15°	3126.7	3172.9	3214.8	3269.2	3328.0	3378.2	3432.7	3487.2	3520.6	3520.6	3512.4
17.5°	3239.8	3277.6	3328.0	3390.7	3470.4	3533.3	3562.6	3571.0	3558.5	3529.1	3508.2
20°	3353.1	3386.6	3441.0	3516.5	3600.3	3613.0	3583.6	3545.8	3508.2	3457.8	3424.2
22.5°	3445.3	3491.4	3575.2	3663.2	3667.4	3596.2	3516.5	3453.7	3395.0	3336.2	3273.5
25°	3554.2	3617.0	3730.2	3763.8	3654.8	3520.6	3407.5	3315.4	3218.9	3122.5	3051.3
27.5°	3688.4	3780.5	3893.8	3797.3	3583.6	3395.0	3239.8	3101.6	2975.8	2841.7	2762.1
30°	3830.8	3973.4	3998.4	3747.0	3462.0	3218.9	3009.3	2799.7	2640.5	2518.9	2472.9
32.5°	4002.7	4187.1	4036.3	3658.9	3298.5	2979.9	2699.1	2447.7	2313.7	2238.1	2217.1
35°	4262.5	4413.5	4057.1	3566.8	3109.9	2695.1	2342.9	2141.7	2057.9	2007.6	1982.5
37.5°	4635.6	4631.4	4053.1	3453.7	2892.1	2384.8	2057.9	1915.5	1848.4	1806.4	1760.4
40°	5071.6	4799.0	4027.8	3290.2	2598.5	2087.3	1861.0	1726.8	1663.9	1613.6	1559.2
42.5°	5503.1	4912.2	3956.6	3047.1	2233.9	1873.5	1718.5	1596.8	1529.9	1475.3	1399.9
45°	5876.3	4958.4	3818.2	2711.8	1907.0	1705.8	1626.2	1521.4	1441.8	1358.0	1299.3
47.5°	6169.6	4949.9	3596.2	2317.7	1689.2	1588.6	1550.7	1479.5	1383.1	1278.4	1202.9
50°	6417.0	4887.0	3294.4	1970.0	1542.4	1483.7	1471.2	1450.3	1295.0	1207.1	1161.0
52.5°	6643.2	4794.9	2971.7	1735.2	1416.6	1366.3	1391.6	1370.5	1261.6	1186.1	1139.9
55°	6953.4	4732.0	2653.1	1555.0	1269.9	1257.4	1278.4	1307.8	1240.6	1169.4	1119.1
57.5°	7318.0	4765.5	2410.1	1353.7	1131.7	1139.9	1211.3	1253.1	1219.7	1144.3	1094.0
60°	7737.1	4866.1	2196.3	1161.0	1018.5	1039.5	1144.3	1202.9	1198.7	1110.8	1052.0
62.5°	8206.6	4971.0	1856.7	1014.2	922.1	955.5	1064.6	1139.9	1152.6	1077.2	1005.9
63°	8298.8	4979.2	1768.8	984.9	905.3	943.0	1043.7	1123.3	1139.9	1068.8	997.6
65°	8525.2	4903.8	1425.0	905.3	838.3	880.2	980.8	1052.0	1085.5	1022.7	964.1
67.5°	8336.5	4287.7	1072.9	809.0	783.9	813.1	901.1	968.3	997.6	968.3	909.5
70°	7623.9	3118.3	838.3	720.9	725.1	746.0	813.1	875.9	909.5	901.1	846.7
72.5°	6140.3	1768.8	700.0	645.4	658.1	683.3	729.2	788.0	817.3	813.1	775.3
75°	4044.6	905.3	590.9	578.4	586.9	607.8	641.3	687.4	720.9	716.7	700.0
77.5°	2003.4	628.8	507.2	511.3	515.5	532.2	557.5	599.3	620.3	624.5	620.3
80°	825.7	490.4	435.9	440.1	444.3	456.9	473.6	511.3	523.9	532.2	536.5
82.5°	494.5	373.1	347.9	356.3	360.5	373.1	385.6	419.1	431.6	444.3	444.3
85°	327.0	259.9	251.4	259.9	268.2	276.6	280.8	301.8	322.8	339.5	347.9
87.5°	176.1	155.0	150.8	155.0	155.0	163.4	171.8	192.7	218.0	234.6	243.1
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):

	160°	165°	170°	175°	180°
0°	2711.8	2711.8	2711.8	2711.8	2711.8
2.5°	2778.8	2782.9	2778.8	2782.9	2787.3
5°	2917.2	2925.5	2921.4	2921.4	2938.0
7.5°	3076.4	3093.1	3093.1	3101.6	3109.9
10°	3248.2	3265.0	3277.6	3277.6	3290.2
12.5°	3420.0	3428.6	3441.0	3441.0	3441.0
15°	3508.2	3503.8	3499.7	3495.6	3495.6
17.5°	3495.6	3478.7	3470.4	3462.0	3466.2
20°	3403.4	3374.0	3365.6	3353.1	3361.4
22.5°	3244.0	3202.2	3185.4	3164.4	3172.9
25°	3005.2	2954.9	2946.5	2921.4	2934.0
27.5°	2728.5	2703.4	2699.1	2695.1	2715.9
30°	2468.7	2477.0	2481.3	2489.7	2510.7
32.5°	2229.8	2246.5	2250.8	2254.9	2284.3
35°	1995.0	1974.1	1995.0	1986.7	2011.8
37.5°	1739.4	1722.6	1705.8	1685.0	1701.7
40°	1525.6	1496.2	1446.0	1420.8	1425.0
42.5°	1358.0	1320.2	1278.4	1253.1	1253.1
45°	1249.1	1202.9	1165.2	1148.5	1148.5
47.5°	1165.2	1144.3	1123.3	1110.8	1110.8
50°	1131.7	1106.5	1094.0	1085.5	1085.5
52.5°	1106.5	1081.4	1068.8	1060.4	1052.0
55°	1085.5	1047.9	1035.2	1031.1	1031.1
57.5°	1056.1	1022.7	1005.9	1001.7	1001.7
60°	1010.1	984.9	968.3	964.1	964.1
62.5°	964.1	938.9	922.1	922.1	922.1
63°	955.5	926.3	913.7	913.7	913.7
65°	917.9	888.6	875.9	875.9	871.7
67.5°	867.7	838.3	829.9	829.9	821.5
70°	809.0	783.9	775.3	779.5	762.8
72.5°	750.3	725.1	712.5	712.5	695.7
75°	683.3	658.1	641.3	637.1	620.3
77.5°	607.8	586.9	570.1	553.3	544.9
80°	528.2	511.3	490.4	477.8	465.2
82.5°	444.3	427.6	414.9	431.6	368.8
85°	347.9	331.1	314.3	339.5	264.0
87.5°	255.7	247.4	230.5	201.2	176.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)