

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: P257938

Luminaire Tested: **ARCH-L-AF72-220-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257938
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-AF72-220-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25116.5 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

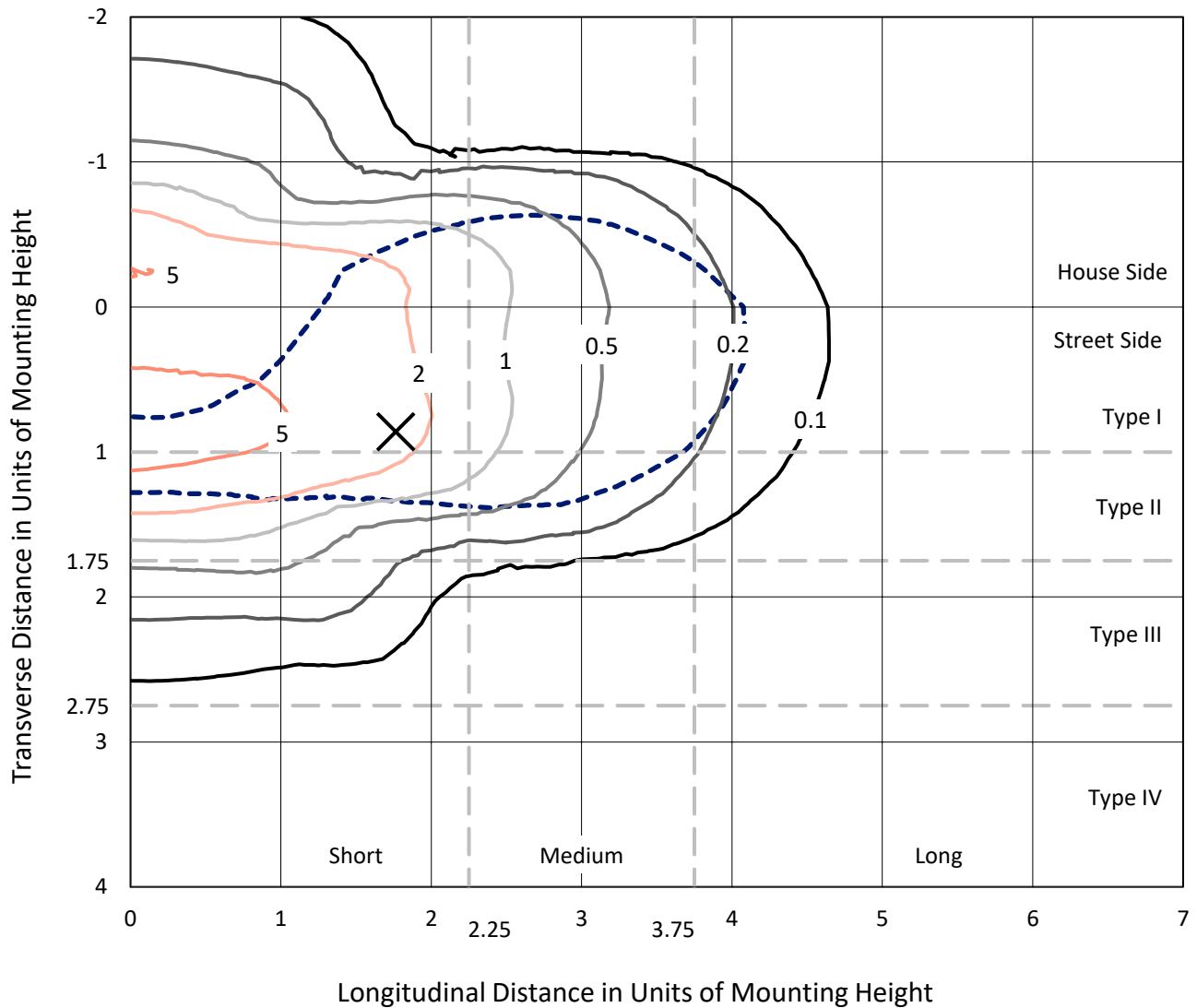
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

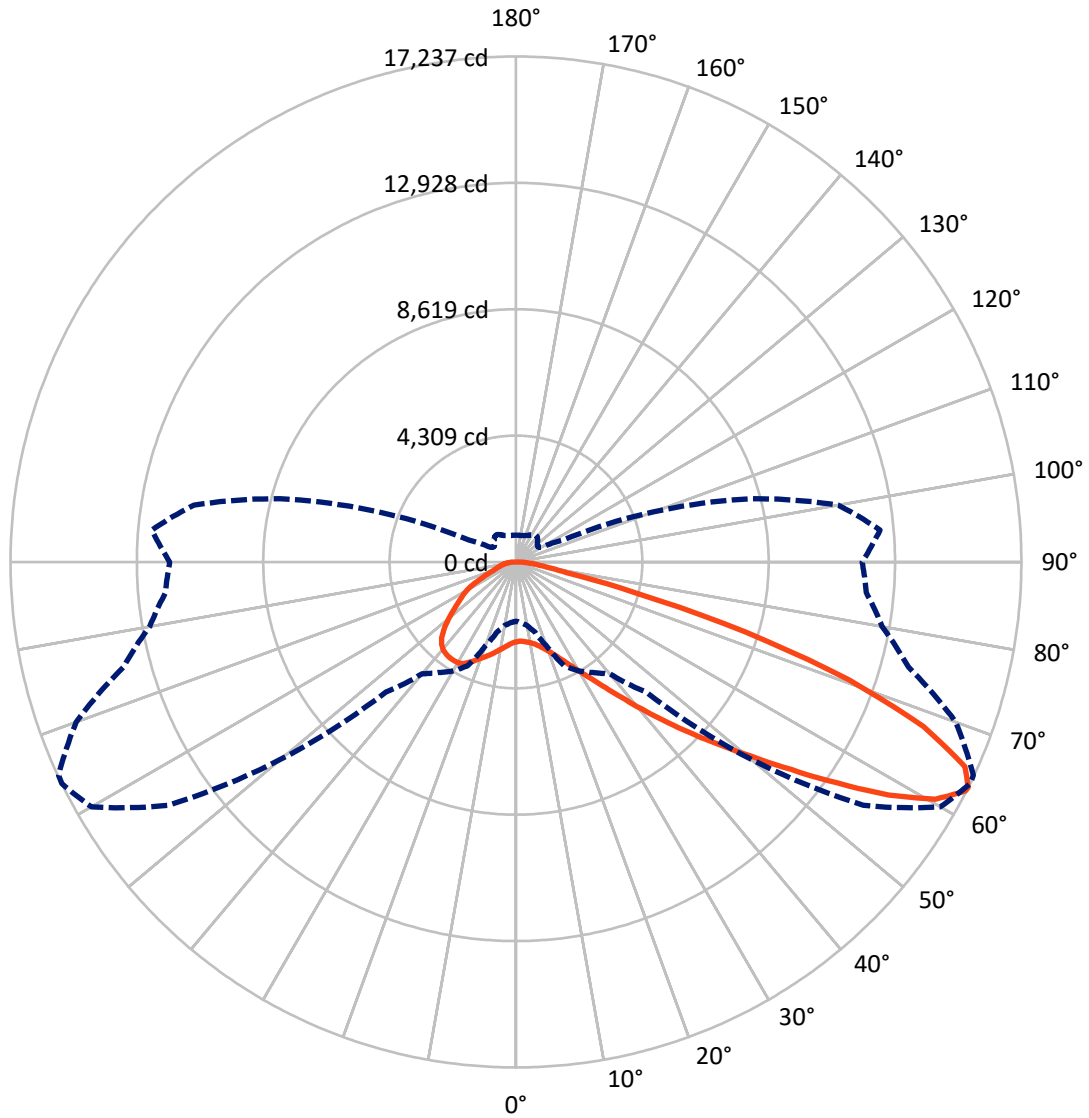
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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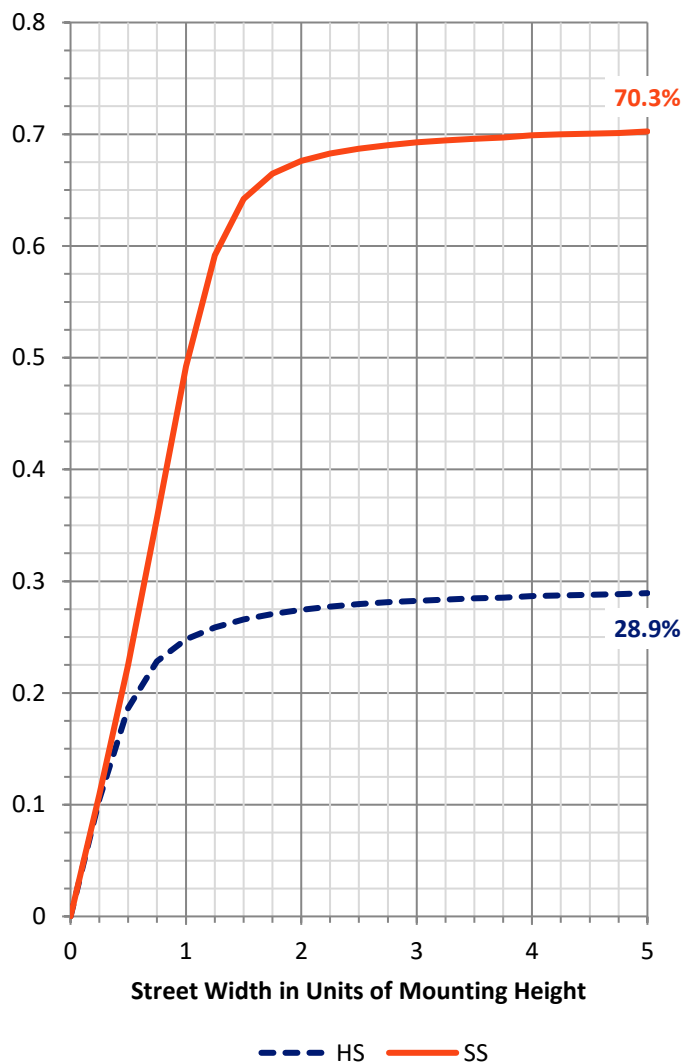
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7383.3	0.0	7383.3
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	17733.2	0.0	17733.2
	% Fixture	70.6	0.0	70.6
Total	Lumens	25116.5	0.0	25116.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	1.1
10°-20°	904.6	3.6
20°-30°	1698.0	6.8
30°-40°	2846.0	11.3
40°-50°	4775.0	19.0
50°-60°	6053.2	24.1
60°-70°	5339.9	21.3
70°-80°	2756.5	11.0
80°-90°	471.7	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°	25116.5	100.0
0°-180°	25116.5	100.0

Coefficient of Utilization

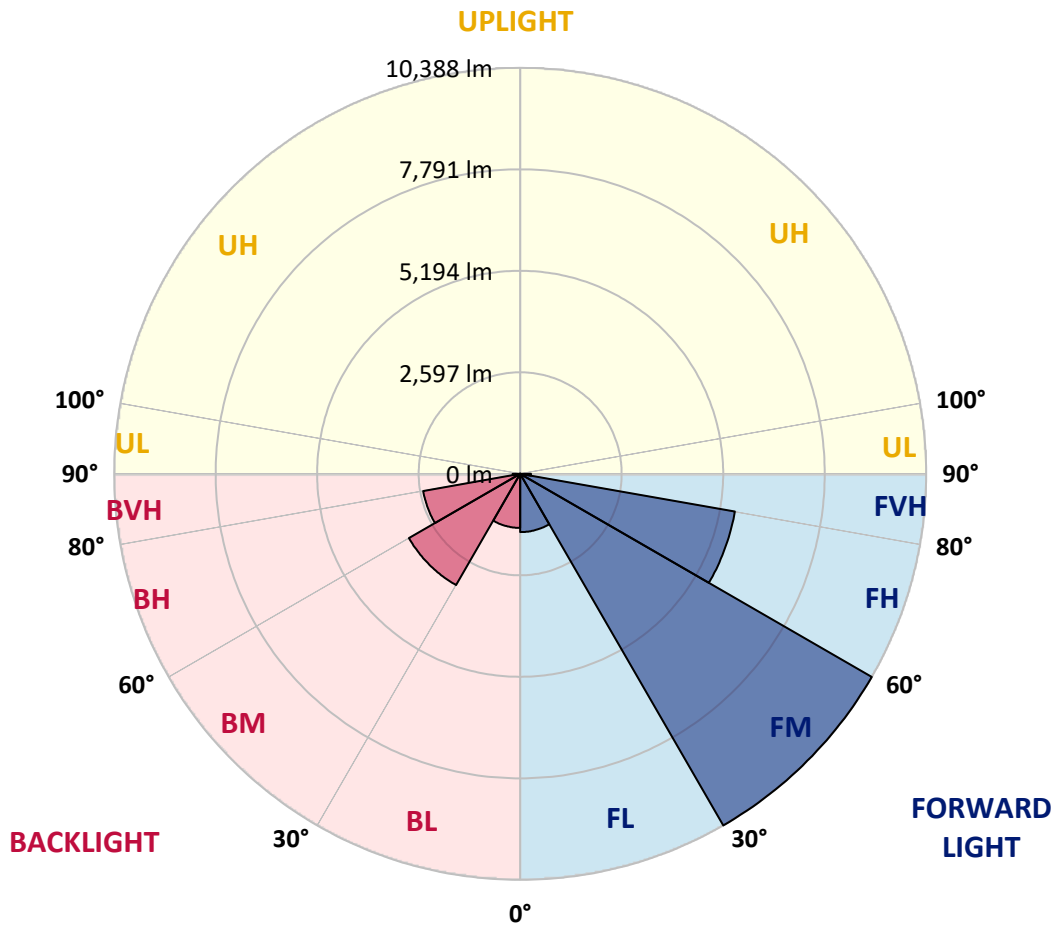


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.8	5.9			
FM (30°-60°)	10387.5	41.4			
FH (60°-80°)	5577.3	22.2			G3/7500
FVH (80°-90°)	277.6	1.1			G3/500
BL (0°-30°)	1383.4	5.5	B3/2500		
BM (30°-60°)	3286.7	13.1	B3/5000		
BH (60°-80°)	2519.1	10.0	B4/5000		G4/5000
BVH (80°-90°)	194.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	2703.3	2699.1	2699.1	2699.1	2699.1	2694.9	2699.1	2707.5	2703.3	2699.1	2707.5
5°	2711.7	2707.5	2707.5	2707.5	2711.7	2707.5	2711.7	2724.3	2715.8	2715.8	2724.3
7.5°	2732.7	2728.5	2732.7	2728.5	2728.5	2728.5	2732.7	2745.3	2741.1	2745.3	2757.9
10°	2757.9	2757.9	2757.9	2757.9	2757.9	2757.9	2766.3	2774.7	2779.0	2783.2	2800.0
12.5°	2833.6	2833.6	2833.6	2829.4	2829.4	2816.8	2833.6	2842.1	2850.5	2858.9	2871.5
15°	2993.3	2993.3	2989.3	2972.4	2972.4	2947.2	2951.3	2955.6	2955.6	2963.9	2972.4
17.5°	3203.6	3199.4	3191.0	3178.4	3161.5	3132.1	3123.7	3115.3	3102.6	3098.5	3098.5
20°	3497.9	3493.7	3476.8	3443.2	3422.2	3376.0	3342.3	3308.7	3296.2	3275.0	3270.9
22.5°	3918.2	3918.2	3884.7	3834.2	3817.4	3720.8	3624.0	3552.6	3527.3	3497.9	3497.9
25°	4426.9	4422.9	4376.6	4317.7	4246.3	4145.3	4027.7	3930.9	3867.9	3800.6	3775.4
27.5°	5036.7	5024.0	4960.9	4889.5	4755.0	4628.8	4490.1	4389.2	4279.9	4195.8	4120.0
30°	5751.3	5738.8	5629.4	5494.8	5356.1	5230.0	5028.2	4906.3	4733.8	4633.0	4548.9
32.5°	6579.6	6566.9	6369.4	6239.0	6091.9	5936.3	5696.7	5503.3	5284.7	5141.7	5024.0
35°	7634.8	7584.3	7302.7	7121.8	6890.7	6735.1	6482.9	6222.2	5965.8	5764.0	5591.6
37.5°	8774.2	8715.3	8467.3	8198.2	7971.1	7782.0	7424.6	7096.7	6794.0	6516.4	6302.1
40°	9963.9	9808.3	9543.5	9345.9	9190.4	9009.5	8635.5	8290.7	7815.6	7504.5	7180.7
42.5°	10787.9	10636.6	10451.6	10321.2	10245.6	10106.8	9896.7	9598.2	9173.5	9181.9	8328.5
45°	11330.3	11107.4	10981.3	10989.8	11019.2	11019.2	10981.3	10935.1	10750.1	10876.2	10161.5
47.5°	11136.9	10989.8	10909.9	11078.1	11288.2	11498.5	11742.3	12007.1	12309.8	12667.2	11788.5
50°	10001.8	10056.4	10094.3	10451.6	10901.5	11380.8	11939.9	12663.0	13508.0	13672.0	13247.3
52.5°	8189.7	8307.4	8433.6	8980.1	9573.0	10401.2	11380.8	12574.7	13709.9	14378.3	14336.2
55°	6361.0	6508.0	6777.2	7185.0	7655.8	8437.8	9648.5	11490.0	13260.0	14323.7	14971.1
57.5°	4527.9	4742.3	5095.6	5663.0	6079.3	6520.7	7416.2	9459.4	11397.6	13377.7	14866.1
60°	3010.2	3111.0	3342.3	4048.6	4750.7	5213.2	5848.0	6588.0	8172.9	10901.5	13781.3
62.5°	2135.7	2203.0	2345.9	2665.5	3300.2	4136.9	4519.5	4860.1	5368.8	7012.6	11065.4
63°	2018.0	2076.9	2194.6	2463.7	3035.4	3901.5	4292.5	4603.5	4973.6	6272.7	10468.4
65°	1673.3	1698.6	1761.6	1892.0	2198.9	2917.7	3556.7	3746.0	3809.0	4031.7	6558.5
67.5°	1412.6	1429.4	1450.4	1488.3	1610.2	1942.3	2652.9	2892.5	2821.0	2669.6	3241.4
70°	1227.6	1240.2	1273.9	1320.1	1362.1	1446.3	1824.6	2182.0	2102.0	1896.0	1984.3
72.5°	979.6	1000.6	1038.4	1118.3	1202.4	1311.6	1404.2	1627.0	1576.6	1379.0	1400.0
75°	773.5	786.2	819.8	878.7	958.5	1084.7	1265.4	1341.1	1202.4	1017.4	1017.4
77.5°	613.8	626.4	655.9	702.1	752.6	840.9	967.0	1164.6	1080.5	765.2	761.0
80°	462.5	475.1	504.4	546.6	597.0	660.0	735.8	824.1	992.2	714.7	571.8
82.5°	340.6	344.7	395.2	424.6	441.4	491.8	554.9	605.4	681.1	660.0	508.7
85°	256.4	252.3	285.9	306.9	311.1	323.7	361.5	412.0	445.7	428.9	395.2
87.5°	142.9	126.0	147.2	168.2	168.2	172.4	180.9	210.3	239.6	231.2	210.3
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°	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	2707.5	2707.5	2703.3	2703.3	2707.5	2707.5	2703.3	2715.8	2724.3	2724.3	2728.5
5°	2720.1	2724.3	2720.1	2720.1	2724.3	2724.3	2728.5	2741.1	2753.8	2762.2	2774.7
7.5°	2757.9	2762.2	2757.9	2757.9	2762.2	2766.3	2774.7	2791.6	2800.0	2816.8	2837.8
10°	2800.0	2804.1	2800.0	2804.1	2808.4	2812.6	2825.2	2837.8	2850.5	2867.3	2901.0
12.5°	2875.7	2879.8	2871.5	2875.7	2888.3	2888.3	2896.7	2905.1	2926.1	2947.2	2980.8
15°	2980.8	2980.8	2972.4	2976.5	2989.3	2989.3	2993.3	3001.8	3027.0	3052.2	3085.9
17.5°	3102.6	3111.0	3106.9	3111.0	3119.5	3123.7	3123.7	3132.1	3149.0	3165.8	3199.4
20°	3266.7	3270.9	3262.5	3270.9	3279.3	3270.9	3262.5	3258.2	3266.7	3275.0	3312.8
22.5°	3489.5	3485.3	3464.3	3464.3	3464.3	3447.4	3426.4	3401.2	3401.2	3388.5	3417.9
25°	3754.3	3741.7	3712.3	3716.5	3687.1	3661.9	3624.0	3586.2	3552.6	3539.9	3544.2
27.5°	4065.4	4040.2	4010.8	4002.3	3973.0	3926.7	3863.6	3792.2	3737.5	3695.4	3687.1
30°	4456.4	4401.8	4351.4	4342.9	4296.7	4221.0	4120.0	4023.4	3930.9	3859.5	3834.2
32.5°	4918.9	4834.8	4755.0	4746.6	4670.9	4570.0	4448.1	4313.4	4178.9	4065.4	4010.8
35°	5461.3	5335.1	5259.4	5238.4	5129.0	5003.0	4868.5	4696.1	4506.8	4347.1	4246.3
37.5°	6121.2	5991.0	5860.6	5864.8	5713.5	5566.3	5385.6	5175.4	4935.7	4712.9	4570.0
40°	6936.9	6751.9	6583.8	6545.9	6415.6	6209.5	6012.0	5768.2	5473.9	5179.6	4973.6
42.5°	7924.9	7622.2	7391.0	7357.3	7185.0	6932.7	6693.1	6369.4	6070.9	5713.5	5465.4
45°	9047.4	8564.0	8286.4	8236.0	7958.6	7702.1	7411.9	7067.2	6701.5	6297.9	6003.6
47.5°	10443.2	9753.7	9282.8	9198.7	8816.1	8479.8	8177.2	7794.5	7357.3	6907.5	6583.8
50°	12070.2	11052.7	10418.0	10287.7	9774.8	9379.6	8992.8	8513.5	8046.8	7575.9	7201.9
52.5°	13701.4	12608.3	11763.3	11603.6	10846.8	10317.1	9808.3	9329.1	8778.3	8311.7	7887.1
55°	15013.1	14285.8	13306.2	13083.5	11998.8	11279.8	10611.4	10064.9	9518.2	9148.3	8648.0
57.5°	15803.6	15765.7	14992.1	14685.2	13201.1	12137.5	11393.3	10771.1	10241.4	10085.8	9421.5
60°	15782.5	16762.1	16430.0	16198.8	14416.1	13016.2	12049.2	11376.5	10939.2	11115.8	10199.4
62.5°	14819.7	16804.2	17203.5	17140.5	15711.1	13722.4	12587.3	11893.6	11662.5	12188.0	11006.6
63°	14470.9	16707.5	17237.2	17211.9	15959.1	13857.1	12679.9	11994.6	11805.4	12461.2	11153.7
65°	12229.9	15862.4	16829.3	16942.9	16493.0	14319.4	12894.2	12251.0	12229.9	13070.8	11502.7
67.5°	7454.0	13403.0	14992.1	15210.7	15740.4	14466.6	12772.3	12162.7	12465.4	13159.0	11397.6
70°	3186.8	8845.6	12049.2	12402.3	13697.3	13735.1	12423.4	11801.2	12410.8	12469.6	10649.2
72.5°	1887.7	4170.5	8202.4	8971.8	10838.4	11817.9	11624.5	11170.5	11691.9	10951.9	9068.4
75°	1336.9	1950.8	4166.4	4986.1	7546.5	9022.2	9766.3	9976.6	9955.4	8685.9	6806.6
77.5°	958.5	1252.8	1757.3	2072.6	4212.6	5793.4	6701.5	7315.2	7117.7	5814.3	4195.8
80°	668.4	866.1	1076.3	1143.5	1954.9	2976.5	3531.5	3800.6	3682.9	2905.1	1879.3
82.5°	483.5	567.6	693.7	735.8	983.8	1374.8	1635.4	1442.0	1383.2	1072.1	811.4
85°	374.2	365.8	433.0	449.8	576.1	718.9	735.8	571.8	500.3	445.7	454.1
87.5°	264.9	227.0	231.2	239.6	298.5	382.6	374.2	235.5	201.8	214.3	243.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	2737.0	2741.1	2749.5	2753.8	2762.2	2762.2	2770.6	2774.7	2783.2	2791.6	2795.8
5°	2787.4	2800.0	2816.8	2825.2	2842.1	2854.6	2871.5	2879.8	2896.7	2909.2	2926.1
7.5°	2863.0	2884.1	2905.1	2930.4	2955.6	2976.5	2993.3	3014.4	3043.9	3064.8	3077.5
10°	2934.4	2963.9	3001.8	3031.2	3069.1	3098.5	3123.7	3161.5	3195.2	3224.6	3241.4
12.5°	3027.0	3064.8	3102.6	3149.0	3199.4	3237.3	3275.0	3325.6	3371.7	3405.4	3422.2
15°	3136.3	3182.6	3224.6	3279.3	3338.1	3388.5	3443.2	3497.9	3531.5	3531.5	3523.1
17.5°	3249.8	3287.7	3338.1	3401.2	3481.1	3544.2	3573.6	3581.9	3569.4	3539.9	3518.9
20°	3363.3	3397.0	3451.6	3527.3	3611.3	3624.0	3594.6	3556.7	3518.9	3468.4	3434.8
22.5°	3455.9	3502.1	3586.2	3674.5	3678.6	3607.2	3527.3	3464.3	3405.4	3346.5	3283.5
25°	3565.1	3628.2	3741.7	3775.4	3666.0	3531.5	3417.9	3325.6	3228.8	3132.1	3060.7
27.5°	3699.7	3792.2	3905.7	3809.0	3594.6	3405.4	3249.8	3111.0	2985.0	2850.5	2770.6
30°	3842.6	3985.6	4010.8	3758.5	3472.7	3228.8	3018.7	2808.4	2648.7	2526.7	2480.5
32.5°	4015.0	4200.0	4048.6	3670.2	3308.7	2989.3	2707.5	2455.3	2320.6	2245.1	2224.0
35°	4275.7	4426.9	4069.7	3577.8	3119.5	2703.3	2350.1	2148.4	2064.2	2013.7	1988.6
37.5°	4649.8	4645.6	4065.4	3464.3	2901.0	2392.2	2064.2	1921.4	1854.0	1811.9	1765.7
40°	5087.1	4813.8	4040.2	3300.2	2606.6	2093.7	1866.7	1732.1	1669.1	1618.5	1563.9
42.5°	5520.1	4927.3	3968.8	3056.4	2240.8	1879.3	1723.7	1601.7	1534.5	1479.9	1404.2
45°	5894.3	4973.6	3830.0	2720.1	1912.9	1711.1	1631.2	1526.2	1446.3	1362.1	1303.3
47.5°	6188.6	4965.2	3607.2	2324.9	1694.3	1593.4	1555.6	1484.1	1387.4	1282.2	1206.5
50°	6436.6	4902.1	3304.4	1976.0	1547.1	1488.3	1475.6	1454.7	1299.1	1210.8	1164.6
52.5°	6663.6	4809.6	2980.8	1740.5	1421.0	1370.5	1395.8	1374.8	1265.4	1189.9	1143.5
55°	6974.8	4746.6	2661.2	1559.7	1273.9	1261.3	1282.2	1311.6	1244.5	1173.0	1122.5
57.5°	7340.5	4780.2	2417.4	1358.0	1135.1	1143.5	1215.0	1257.0	1223.3	1147.8	1097.3
60°	7760.9	4881.0	2203.0	1164.6	1021.6	1042.7	1147.8	1206.5	1202.4	1114.1	1055.2
62.5°	8231.8	4986.1	1862.5	1017.4	924.9	958.5	1067.9	1143.5	1156.2	1080.5	1009.0
63°	8324.3	4994.6	1774.2	988.0	908.1	945.9	1046.8	1126.7	1143.5	1072.1	1000.6
65°	8551.2	4918.9	1429.4	908.1	840.9	883.0	983.8	1055.2	1088.9	1025.8	967.0
67.5°	8362.1	4300.9	1076.3	811.4	786.2	815.6	903.9	971.2	1000.6	971.2	912.4
70°	7647.4	3127.9	840.9	723.1	727.3	748.3	815.6	878.7	912.4	903.9	849.3
72.5°	6159.2	1774.2	702.1	647.5	660.0	685.3	731.5	790.4	819.8	815.6	777.8
75°	4057.1	908.1	592.8	580.1	588.6	609.5	643.2	689.5	723.1	718.9	702.1
77.5°	2009.6	630.7	508.7	512.9	517.2	533.9	559.2	601.2	622.2	626.4	622.2
80°	828.1	491.8	437.2	441.4	445.7	458.3	475.1	512.9	525.5	533.9	538.1
82.5°	496.1	374.2	349.0	357.4	361.5	374.2	386.8	420.4	433.0	445.7	445.7
85°	327.9	260.7	252.3	260.7	269.1	277.5	281.7	302.6	323.7	340.6	349.0
87.5°	176.6	155.5	151.4	155.5	155.5	164.0	172.4	193.4	218.6	235.5	243.8
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):

	160°	165°	170°	175°	180°
0°	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	2787.4	2791.6	2787.4	2791.6	2795.8
5°	2926.1	2934.4	2930.4	2930.4	2947.2
7.5°	3085.9	3102.6	3102.6	3111.0	3119.5
10°	3258.2	3275.0	3287.7	3287.7	3300.2
12.5°	3430.6	3439.1	3451.6	3451.6	3451.6
15°	3518.9	3514.7	3510.5	3506.2	3506.2
17.5°	3506.2	3489.5	3481.1	3472.7	3476.8
20°	3413.8	3384.5	3376.0	3363.3	3371.7
22.5°	3254.1	3212.0	3195.2	3174.2	3182.6
25°	3014.4	2963.9	2955.6	2930.4	2942.9
27.5°	2737.0	2711.7	2707.5	2703.3	2724.3
30°	2476.3	2484.7	2488.9	2497.3	2518.3
32.5°	2236.6	2253.5	2257.7	2261.8	2291.2
35°	2001.2	1980.3	2001.2	1992.8	2018.0
37.5°	1744.8	1727.9	1711.1	1690.1	1706.8
40°	1530.2	1500.9	1450.4	1425.2	1429.4
42.5°	1362.1	1324.3	1282.2	1257.0	1257.0
45°	1252.8	1206.5	1168.7	1151.9	1151.9
47.5°	1168.7	1147.8	1126.7	1114.1	1114.1
50°	1135.1	1109.8	1097.3	1088.9	1088.9
52.5°	1109.8	1084.7	1072.1	1063.6	1055.2
55°	1088.9	1051.1	1038.4	1034.2	1034.2
57.5°	1059.5	1025.8	1009.0	1004.7	1004.7
60°	1013.2	988.0	971.2	967.0	967.0
62.5°	967.0	941.7	924.9	924.9	924.9
63°	958.5	929.1	916.4	916.4	916.4
65°	920.7	891.3	878.7	878.7	874.5
67.5°	870.2	840.9	832.4	832.4	824.1
70°	811.4	786.2	777.8	782.0	765.2
72.5°	752.6	727.3	714.7	714.7	697.9
75°	685.3	660.0	643.2	639.0	622.2
77.5°	609.5	588.6	571.8	554.9	546.6
80°	529.7	512.9	491.8	479.3	466.6
82.5°	445.7	428.9	416.2	433.0	370.0
85°	349.0	332.1	315.3	340.6	264.9
87.5°	256.4	248.0	231.2	201.8	176.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)