

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: P257931

Luminaire Tested: **ARCH-L-AF72-150-D-U-T2U-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P257931  
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-AF72-150-D-U-T2U-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 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: 19322.5 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

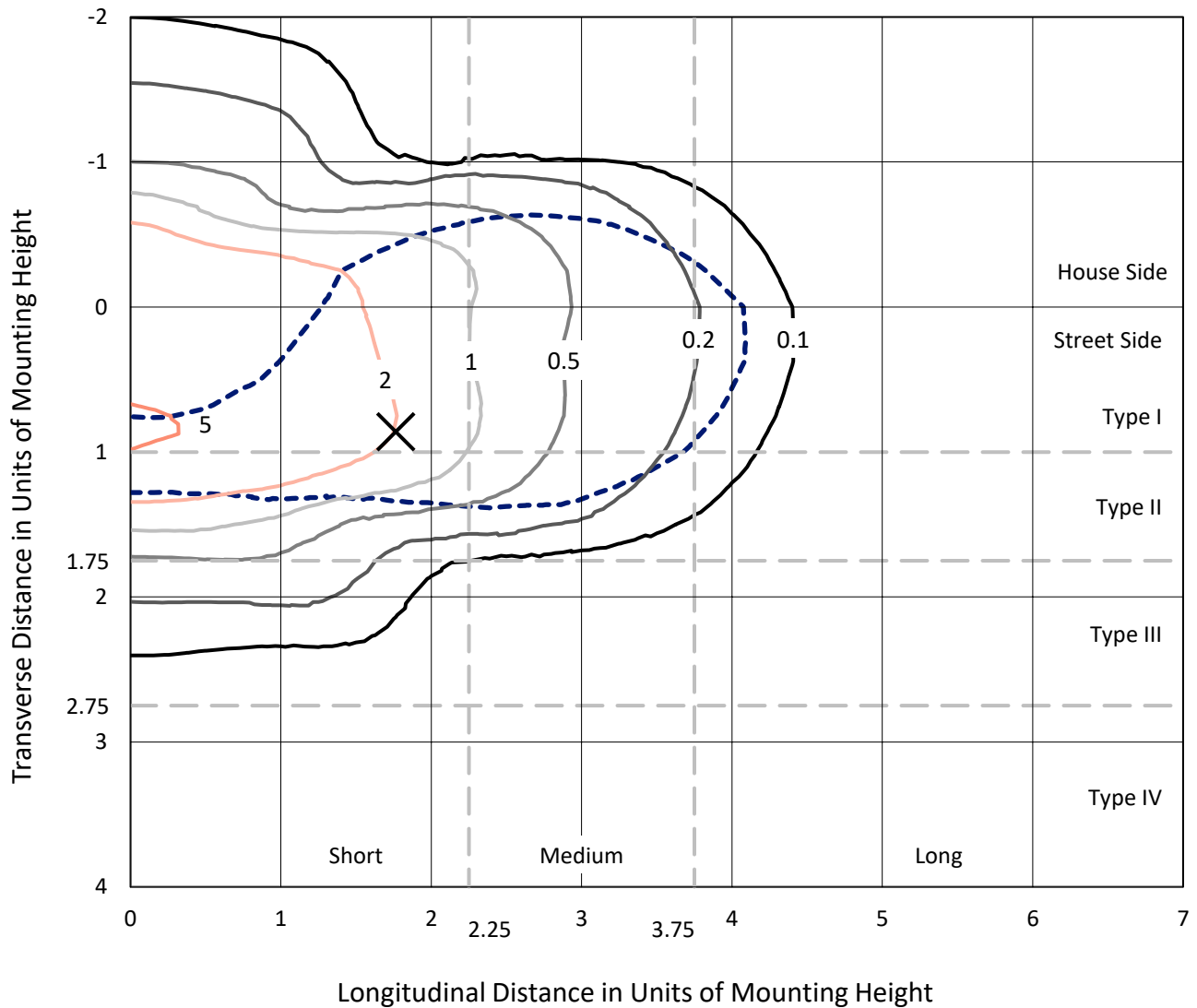
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

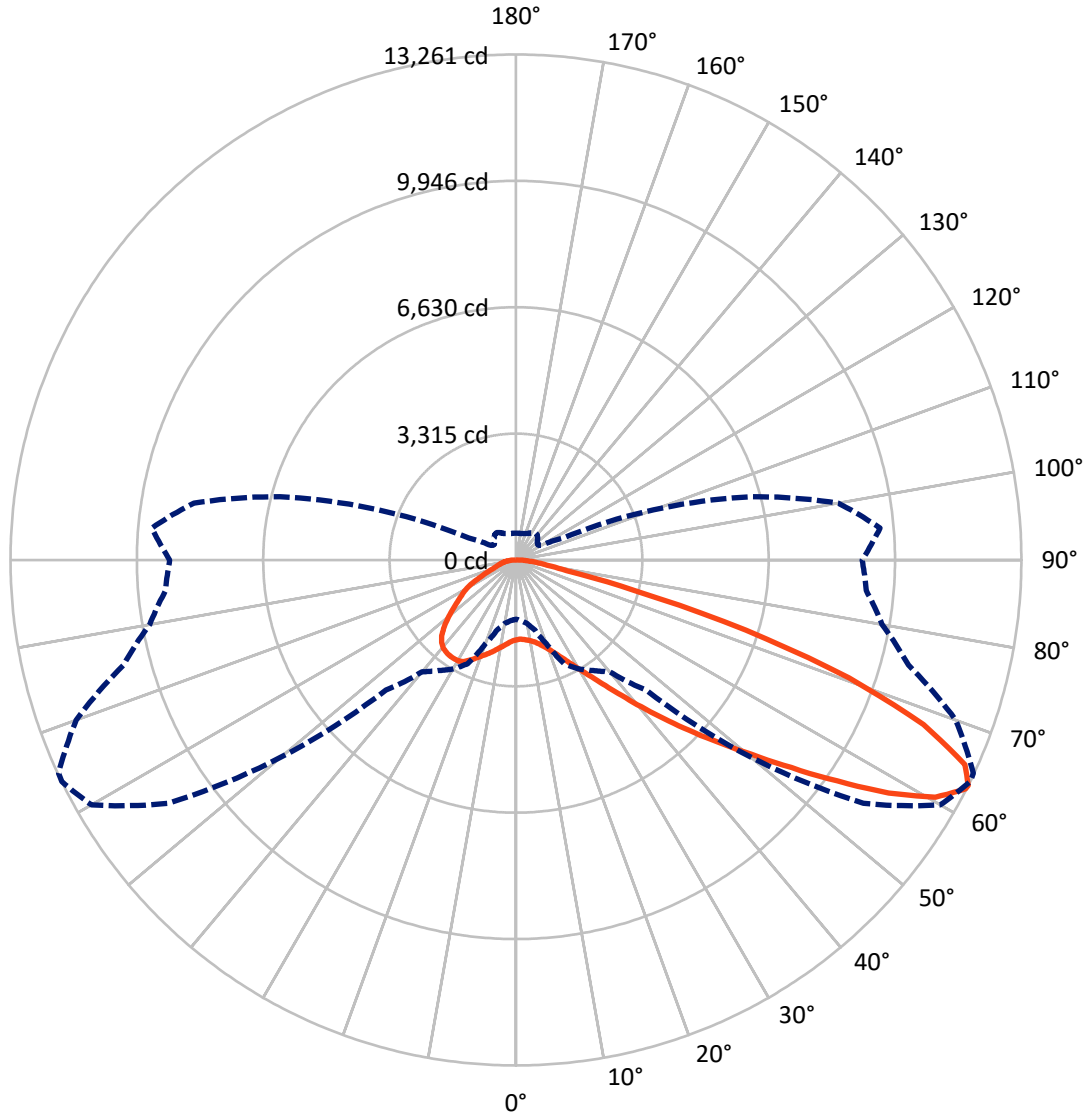
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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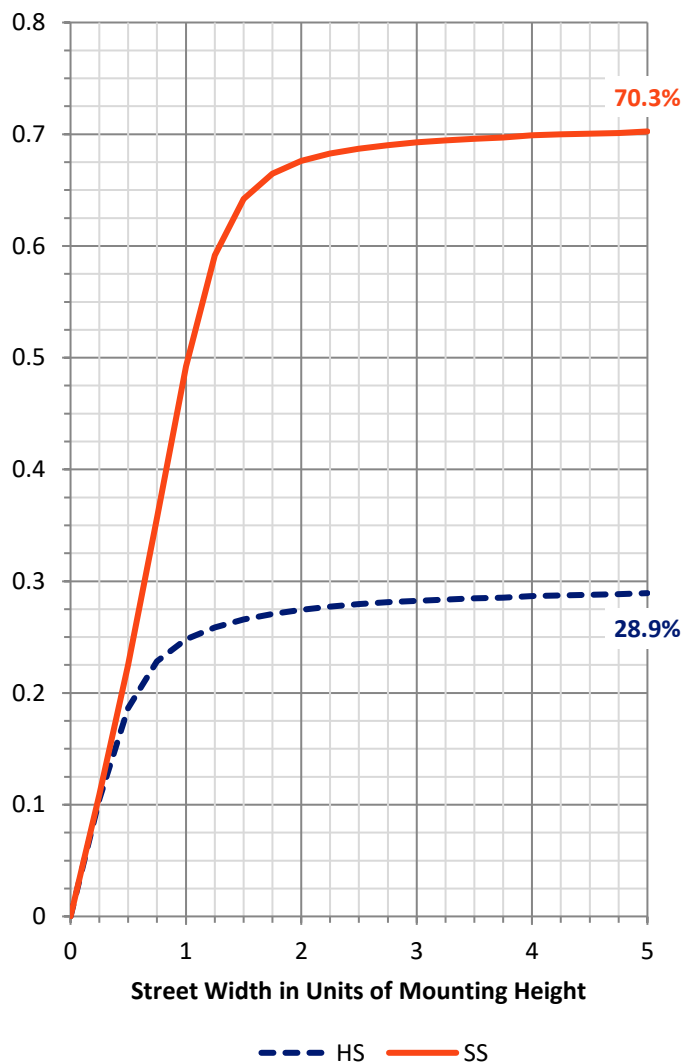
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5680.1	0.0	5680.1
	% Fixture	29.4	0.0	29.4
<b>Street Side</b>	Lumens	13642.4	0.0	13642.4
	% Fixture	70.6	0.0	70.6
<b>Total</b>	Lumens	19322.5	0.0	19322.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.9	1.1
10°-20°	695.9	3.6
20°-30°	1306.3	6.8
30°-40°	2189.5	11.3
40°-50°	3673.5	19.0
50°-60°	4656.9	24.1
60°-70°	4108.1	21.3
70°-80°	2120.7	11.0
80°-90°	362.9	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°	19322.5	100.0
0°-180°	19322.5	100.0

**Coefficient of Utilization**



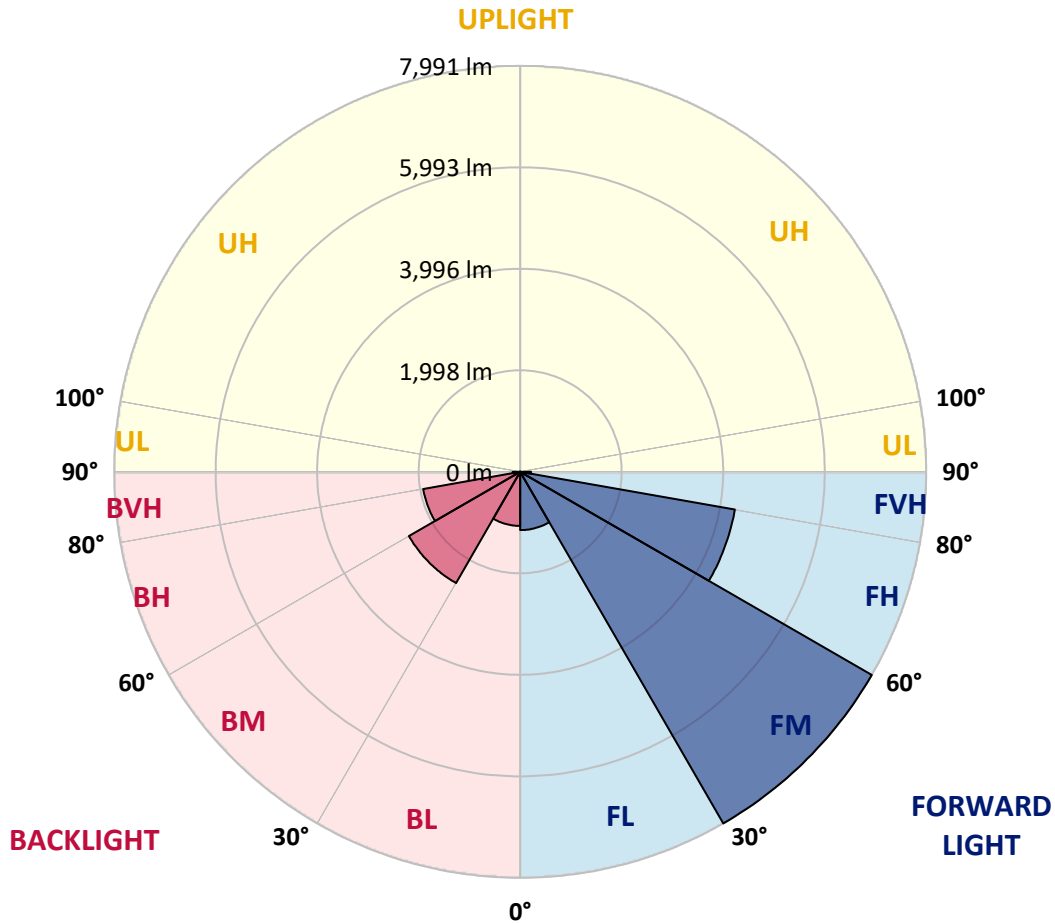
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.9	5.9			
FM (30°-60°)	7991.3	41.4			
FH (60°-80°)	4290.7	22.2			G2/5000
FVH (80°-90°)	213.6	1.1			G2/225
BL (0°-30°)	1064.3	5.5	B3/2500		
BM (30°-60°)	2528.5	13.1	B3/5000		
BH (60°-80°)	1938.0	10.0	B3/2500		G3/2500
BVH (80°-90°)	149.3	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°	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7
2.5°	2079.6	2076.5	2076.5	2076.5	2076.5	2073.2	2076.5	2082.9	2079.6	2076.5	2082.9
5°	2086.2	2082.9	2082.9	2082.9	2086.2	2082.9	2086.2	2095.8	2089.4	2089.4	2095.8
7.5°	2102.3	2099.1	2102.3	2099.1	2099.1	2099.1	2102.3	2112.0	2108.8	2112.0	2121.7
10°	2121.7	2121.7	2121.7	2121.7	2121.7	2121.7	2128.2	2134.7	2137.8	2141.2	2154.0
12.5°	2179.9	2179.9	2179.9	2176.7	2176.7	2167.0	2179.9	2186.4	2192.9	2199.4	2209.0
15°	2302.8	2302.8	2299.6	2286.7	2286.7	2267.2	2270.5	2273.8	2273.8	2280.2	2286.7
17.5°	2464.6	2461.3	2454.8	2445.1	2432.2	2409.6	2403.1	2396.6	2387.0	2383.7	2383.7
20°	2690.9	2687.8	2674.7	2648.9	2632.7	2597.2	2571.3	2545.4	2535.7	2519.5	2516.3
22.5°	3014.4	3014.4	2988.6	2949.7	2936.8	2862.4	2788.0	2733.0	2713.6	2690.9	2690.9
25°	3405.7	3402.6	3367.0	3321.7	3266.7	3189.1	3098.5	3024.1	2975.5	2923.9	2904.4
27.5°	3874.8	3865.0	3816.5	3761.6	3658.0	3561.0	3454.2	3376.6	3292.5	3227.8	3169.6
30°	4424.6	4414.8	4330.8	4227.2	4120.6	4023.5	3868.4	3774.5	3641.8	3564.2	3499.6
32.5°	5061.8	5052.0	4900.1	4799.8	4686.5	4566.9	4382.5	4233.8	4065.5	3955.6	3865.0
35°	5873.6	5834.8	5618.0	5479.1	5301.0	5181.4	4987.3	4786.8	4589.6	4434.3	4301.6
37.5°	6750.0	6704.8	6513.9	6307.0	6132.2	5986.8	5711.8	5459.5	5226.8	5013.3	4848.3
40°	7665.4	7545.8	7342.0	7190.0	7070.2	6931.2	6643.3	6378.1	6012.6	5773.3	5524.2
42.5°	8299.4	8182.9	8040.6	7940.3	7882.1	7775.3	7613.6	7384.0	7057.4	7063.8	6407.2
45°	8716.6	8545.1	8448.2	8454.6	8477.2	8477.2	8448.2	8412.5	8270.2	8367.3	7817.4
47.5°	8567.8	8454.6	8393.1	8522.4	8684.3	8845.9	9033.5	9237.4	9470.1	9745.1	9069.1
50°	7694.5	7736.5	7765.6	8040.6	8386.6	8755.4	9185.5	9741.9	10391.9	10518.1	10191.3
52.5°	6300.6	6391.0	6488.2	6908.6	7364.6	8001.7	8755.4	9674.0	10547.3	11061.4	11029.0
55°	4893.5	5006.8	5213.8	5527.5	5889.7	6491.3	7422.8	8839.4	10201.1	11019.5	11517.4
57.5°	3483.4	3648.3	3920.0	4356.6	4676.9	5016.4	5705.4	7277.2	8768.3	10291.6	11436.6
60°	2315.8	2393.5	2571.3	3114.7	3654.8	4010.6	4499.0	5068.2	6287.6	8386.6	10602.2
62.5°	1643.0	1694.8	1804.8	2050.6	2538.9	3182.6	3476.9	3738.9	4130.2	5394.9	8512.8
63°	1552.5	1597.8	1688.3	1895.3	2335.2	3001.5	3302.3	3541.6	3826.3	4825.7	8053.5
65°	1287.3	1306.6	1355.2	1455.5	1691.6	2244.6	2736.3	2881.8	2930.4	3101.8	5045.6
67.5°	1086.7	1099.7	1115.9	1144.9	1238.8	1494.2	2040.9	2225.2	2170.2	2053.8	2493.7
70°	944.4	954.2	980.0	1015.6	1047.9	1112.6	1403.7	1678.7	1617.1	1458.7	1526.6
72.5°	753.6	769.7	798.9	860.3	925.0	1009.1	1080.2	1251.7	1212.9	1060.9	1077.1
75°	595.1	604.9	630.7	676.0	737.4	834.4	973.5	1031.7	925.0	782.8	782.8
77.5°	472.2	482.0	504.6	540.2	579.0	646.9	743.9	895.9	831.3	588.7	585.4
80°	355.7	365.5	388.1	420.4	459.3	507.8	566.0	633.9	763.2	549.8	439.9
82.5°	262.0	265.2	304.1	326.6	339.6	378.4	426.9	465.8	524.0	507.8	391.3
85°	197.3	194.1	219.9	236.1	239.4	249.0	278.2	317.0	342.8	329.9	304.1
87.5°	110.0	97.0	113.2	129.4	129.4	132.6	139.1	161.7	184.3	177.9	161.7
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°	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7
2.5°	2082.9	2082.9	2079.6	2079.6	2082.9	2082.9	2079.6	2089.4	2095.8	2095.8	2099.1
5°	2092.7	2095.8	2092.7	2092.7	2095.8	2095.8	2099.1	2108.8	2118.5	2125.0	2134.7
7.5°	2121.7	2125.0	2121.7	2121.7	2125.0	2128.2	2134.7	2147.6	2154.0	2167.0	2183.2
10°	2154.0	2157.4	2154.0	2157.4	2160.5	2163.8	2173.5	2183.2	2192.9	2205.8	2231.7
12.5°	2212.3	2215.6	2209.0	2212.3	2222.0	2222.0	2228.5	2234.9	2251.1	2267.2	2293.2
15°	2293.2	2293.2	2286.7	2290.0	2299.6	2299.6	2302.8	2309.3	2328.8	2348.1	2373.9
17.5°	2387.0	2393.5	2390.1	2393.5	2399.9	2403.1	2403.1	2409.6	2422.5	2435.5	2461.3
20°	2513.1	2516.3	2509.8	2516.3	2522.8	2516.3	2509.8	2506.6	2513.1	2519.5	2548.7
22.5°	2684.5	2681.2	2665.1	2665.1	2665.1	2652.2	2636.0	2616.5	2616.5	2606.9	2629.6
25°	2888.3	2878.6	2855.9	2859.2	2836.5	2817.1	2788.0	2758.9	2733.0	2723.3	2726.6
27.5°	3127.6	3108.2	3085.6	3079.2	3056.4	3020.9	2972.4	2917.3	2875.3	2843.0	2836.5
30°	3428.4	3386.4	3347.6	3341.0	3305.5	3247.3	3169.6	3095.4	3024.1	2969.1	2949.7
32.5°	3784.2	3719.5	3658.0	3651.6	3593.3	3515.8	3421.9	3318.4	3215.0	3127.6	3085.6
35°	4201.4	4104.5	4046.2	4030.0	3945.9	3848.8	3745.4	3612.7	3467.3	3344.3	3266.7
37.5°	4709.2	4608.9	4508.7	4511.9	4395.5	4282.3	4143.2	3981.5	3797.1	3625.7	3515.8
40°	5336.7	5194.4	5064.9	5035.9	4935.6	4777.2	4625.1	4437.6	4211.1	3984.6	3826.3
42.5°	6096.7	5863.8	5686.0	5660.0	5527.5	5333.4	5149.1	4900.1	4670.4	4395.5	4204.7
45°	6960.3	6588.4	6374.8	6336.1	6122.6	5925.3	5702.1	5437.0	5155.5	4845.0	4618.6
47.5°	8034.1	7503.7	7141.4	7076.7	6782.4	6523.7	6290.8	5996.4	5660.0	5314.1	5064.9
50°	9285.8	8503.1	8014.7	7914.4	7519.9	7215.8	6918.3	6549.5	6190.5	5828.3	5540.4
52.5°	10540.7	9699.8	9049.7	8926.8	8344.5	7937.0	7545.8	7177.0	6753.4	6394.3	6067.6
55°	11549.8	10990.3	10236.7	10065.3	9230.8	8677.7	8163.6	7742.9	7322.5	7037.9	6653.1
57.5°	12158.0	12128.8	11533.6	11297.5	10155.8	9337.6	8765.1	8286.3	7878.9	7759.1	7248.2
60°	12141.8	12895.4	12639.7	12461.9	11090.6	10013.5	9269.7	8752.1	8415.8	8551.6	7846.6
62.5°	11401.1	12927.7	13234.9	13186.4	12086.7	10556.8	9683.6	9149.9	8972.1	9376.3	8467.5
63°	11132.7	12853.3	13260.8	13241.3	12277.6	10660.4	9754.7	9227.6	9082.0	9586.6	8580.6
65°	9408.8	12203.1	12947.1	13034.4	12688.3	11016.2	9919.7	9424.9	9408.8	10055.5	8849.1
67.5°	5734.5	10311.2	11533.6	11701.8	12109.4	11129.3	9825.9	9357.0	9589.8	10123.5	8768.3
70°	2451.7	6805.1	9269.7	9541.3	10537.5	10566.6	9557.5	9078.8	9547.7	9593.1	8192.6
72.5°	1452.2	3208.5	6310.2	6902.1	8338.1	9091.7	8943.0	8593.7	8994.7	8425.4	6976.4
75°	1028.5	1500.7	3205.2	3835.9	5805.6	6940.9	7513.3	7675.1	7659.0	6682.2	5236.4
77.5°	737.4	963.8	1352.0	1594.5	3240.8	4456.9	5155.5	5627.7	5475.7	4473.1	3227.8
80°	514.3	666.3	827.9	879.7	1504.0	2290.0	2716.8	2923.9	2833.3	2234.9	1445.7
82.5°	371.9	436.6	533.6	566.0	756.8	1057.6	1258.1	1109.4	1064.0	824.8	624.2
85°	287.9	281.4	333.1	346.1	443.1	553.1	566.0	439.9	384.9	342.8	349.3
87.5°	203.8	174.7	177.9	184.3	229.7	294.4	287.9	181.2	155.2	165.0	187.6
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°	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7	2092.7
2.5°	2105.5	2108.8	2115.3	2118.5	2125.0	2125.0	2131.4	2134.7	2141.2	2147.6	2150.9
5°	2144.3	2154.0	2167.0	2173.5	2186.4	2196.1	2209.0	2215.6	2228.5	2238.1	2251.1
7.5°	2202.5	2218.7	2234.9	2254.3	2273.8	2290.0	2302.8	2319.0	2341.7	2357.9	2367.5
10°	2257.7	2280.2	2309.3	2331.9	2361.1	2383.7	2403.1	2432.2	2458.2	2480.7	2493.7
12.5°	2328.8	2357.9	2387.0	2422.5	2461.3	2490.4	2519.5	2558.5	2594.0	2619.8	2632.7
15°	2412.8	2448.4	2480.7	2522.8	2568.0	2606.9	2648.9	2690.9	2716.8	2716.8	2710.4
17.5°	2500.2	2529.3	2568.0	2616.5	2678.1	2726.6	2749.2	2755.6	2745.9	2723.3	2707.1
20°	2587.5	2613.4	2655.4	2713.6	2778.3	2788.0	2765.4	2736.3	2707.1	2668.3	2642.4
22.5°	2658.6	2694.3	2758.9	2826.9	2830.1	2775.0	2713.6	2665.1	2619.8	2574.5	2526.1
25°	2742.7	2791.2	2878.6	2904.4	2820.3	2716.8	2629.6	2558.5	2484.0	2409.6	2354.6
27.5°	2846.2	2917.3	3004.7	2930.4	2765.4	2619.8	2500.2	2393.5	2296.4	2192.9	2131.4
30°	2956.2	3066.2	3085.6	2891.5	2671.6	2484.0	2322.3	2160.5	2037.6	1943.8	1908.2
32.5°	3088.8	3231.2	3114.7	2823.6	2545.4	2299.6	2082.9	1888.9	1785.4	1727.2	1711.0
35°	3289.4	3405.7	3130.9	2752.5	2399.9	2079.6	1808.0	1652.8	1588.1	1549.3	1529.8
37.5°	3577.1	3574.0	3127.6	2665.1	2231.7	1840.4	1588.1	1478.1	1426.4	1394.0	1358.4
40°	3913.5	3703.4	3108.2	2538.9	2005.4	1610.7	1436.0	1332.5	1284.1	1245.2	1203.2
42.5°	4246.7	3790.6	3053.2	2351.4	1723.9	1445.7	1326.1	1232.3	1180.5	1138.5	1080.2
45°	4534.6	3826.3	2946.5	2092.7	1471.6	1316.3	1255.0	1174.1	1112.6	1047.9	1002.7
47.5°	4761.0	3819.7	2775.0	1788.6	1303.5	1225.8	1196.7	1141.8	1067.4	986.5	928.2
50°	4951.7	3771.2	2542.3	1520.2	1190.3	1144.9	1135.2	1119.1	999.4	931.6	895.9
52.5°	5126.5	3700.1	2293.2	1339.0	1093.2	1054.4	1073.8	1057.6	973.5	915.3	879.7
55°	5365.7	3651.6	2047.3	1200.0	980.0	970.3	986.5	1009.1	957.3	902.4	863.5
57.5°	5647.2	3677.4	1859.7	1044.7	873.3	879.7	934.7	967.1	941.2	883.0	844.1
60°	5970.6	3755.0	1694.8	895.9	785.9	802.1	883.0	928.2	925.0	857.1	811.8
62.5°	6332.8	3835.9	1432.8	782.8	711.6	737.4	821.5	879.7	889.5	831.3	776.3
63°	6404.0	3842.4	1364.8	760.1	698.6	727.7	805.4	866.8	879.7	824.8	769.7
65°	6578.6	3784.2	1099.7	698.6	646.9	679.3	756.8	811.8	837.7	789.2	743.9
67.5°	6433.0	3308.7	827.9	624.2	604.9	627.4	695.4	747.2	769.7	747.2	701.9
70°	5883.3	2406.3	646.9	556.3	559.5	575.7	627.4	676.0	701.9	695.4	653.4
72.5°	4738.3	1364.8	540.2	498.1	507.8	527.1	562.8	608.0	630.7	627.4	598.3
75°	3121.1	698.6	456.0	446.4	452.8	468.9	494.8	530.5	556.3	553.1	540.2
77.5°	1546.0	485.1	391.3	394.5	397.8	410.9	430.2	462.5	478.7	482.0	478.7
80°	637.2	378.4	336.4	339.6	342.8	352.6	365.5	394.5	404.3	410.9	414.0
82.5°	381.7	287.9	268.4	274.9	278.2	287.9	297.5	323.4	333.1	342.8	342.8
85°	252.3	200.5	194.1	200.5	207.0	213.5	216.7	232.8	249.0	262.0	268.4
87.5°	135.8	119.6	116.5	119.6	119.6	126.0	132.6	148.8	168.2	181.2	187.6
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°	2092.7	2092.7	2092.7	2092.7	2092.7
2.5°	2144.3	2147.6	2144.3	2147.6	2150.9
5°	2251.1	2257.7	2254.3	2254.3	2267.2
7.5°	2373.9	2387.0	2387.0	2393.5	2399.9
10°	2506.6	2519.5	2529.3	2529.3	2538.9
12.5°	2639.2	2645.7	2655.4	2655.4	2655.4
15°	2707.1	2703.9	2700.7	2697.4	2697.4
17.5°	2697.4	2684.5	2678.1	2671.6	2674.7
20°	2626.3	2603.6	2597.2	2587.5	2594.0
22.5°	2503.3	2471.0	2458.2	2442.0	2448.4
25°	2319.0	2280.2	2273.8	2254.3	2264.1
27.5°	2105.5	2086.2	2082.9	2079.6	2095.8
30°	1905.1	1911.5	1914.8	1921.3	1937.3
32.5°	1720.7	1733.6	1736.9	1740.1	1762.7
35°	1539.6	1523.4	1539.6	1533.1	1552.5
37.5°	1342.2	1329.3	1316.3	1300.1	1313.2
40°	1177.3	1154.7	1115.9	1096.4	1099.7
42.5°	1047.9	1018.9	986.5	967.1	967.1
45°	963.8	928.2	899.1	886.2	886.2
47.5°	899.1	883.0	866.8	857.1	857.1
50°	873.3	853.9	844.1	837.7	837.7
52.5°	853.9	834.4	824.8	818.3	811.8
55°	837.7	808.6	798.9	795.6	795.6
57.5°	815.1	789.2	776.3	773.0	773.0
60°	779.4	760.1	747.2	743.9	743.9
62.5°	743.9	724.5	711.6	711.6	711.6
63°	737.4	714.8	705.0	705.0	705.0
65°	708.3	685.7	676.0	676.0	672.7
67.5°	669.5	646.9	640.4	640.4	633.9
70°	624.2	604.9	598.3	601.6	588.7
72.5°	579.0	559.5	549.8	549.8	536.9
75°	527.1	507.8	494.8	491.6	478.7
77.5°	468.9	452.8	439.9	426.9	420.4
80°	407.5	394.5	378.4	368.8	359.0
82.5°	342.8	329.9	320.2	333.1	284.6
85°	268.4	255.5	242.5	262.0	203.8
87.5°	197.3	190.8	177.9	155.2	135.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)