

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: P200753

Luminaire Tested: **VERD-M-A0385-E-U-T4-7050-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26232)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-A0385-E-U-T4-7050-AP  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K LEDS AT 85% STANDARD LUMENS AND TYPE IV OPTICS, GREY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19105 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

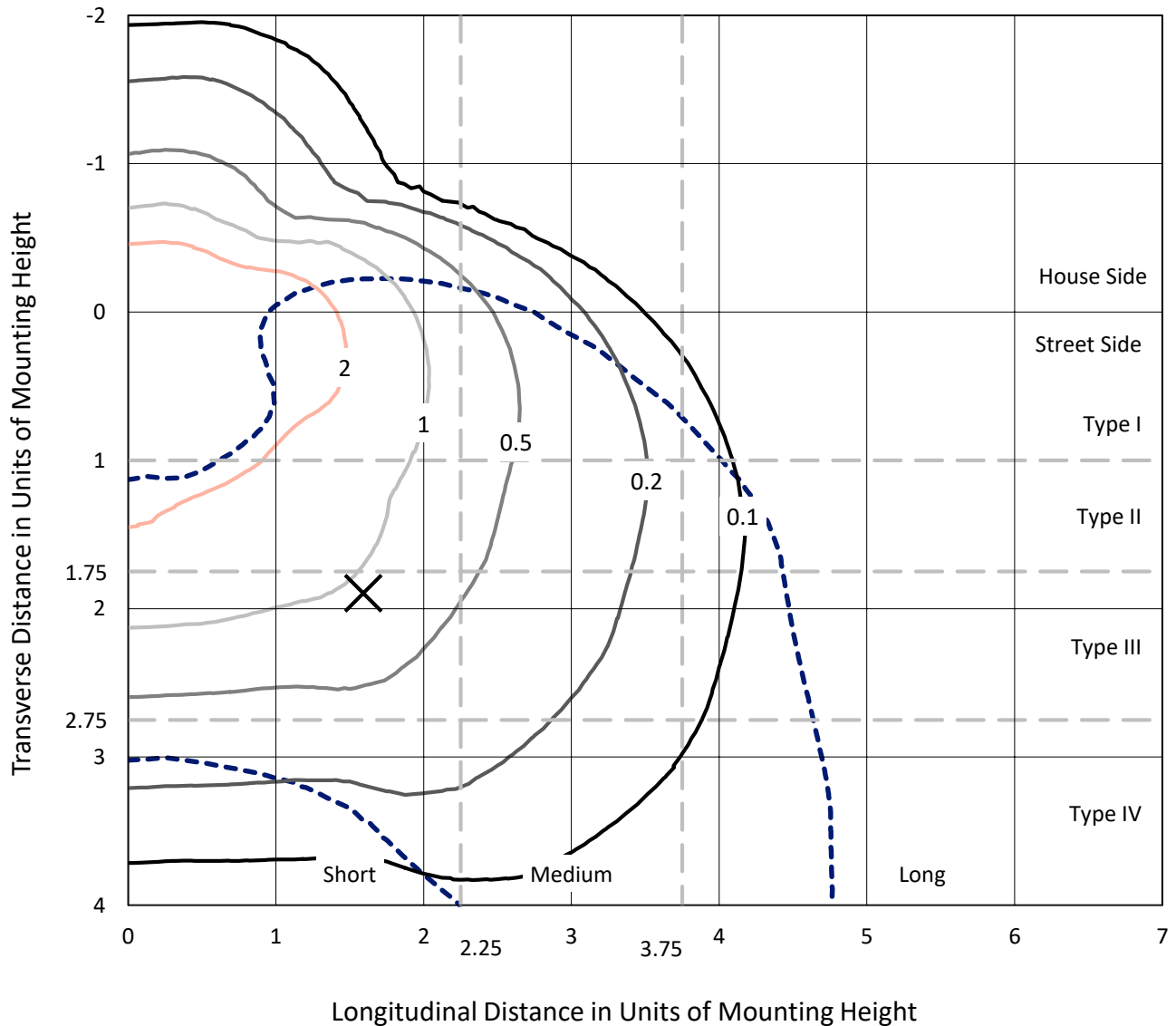
Input Watts (W): 152  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

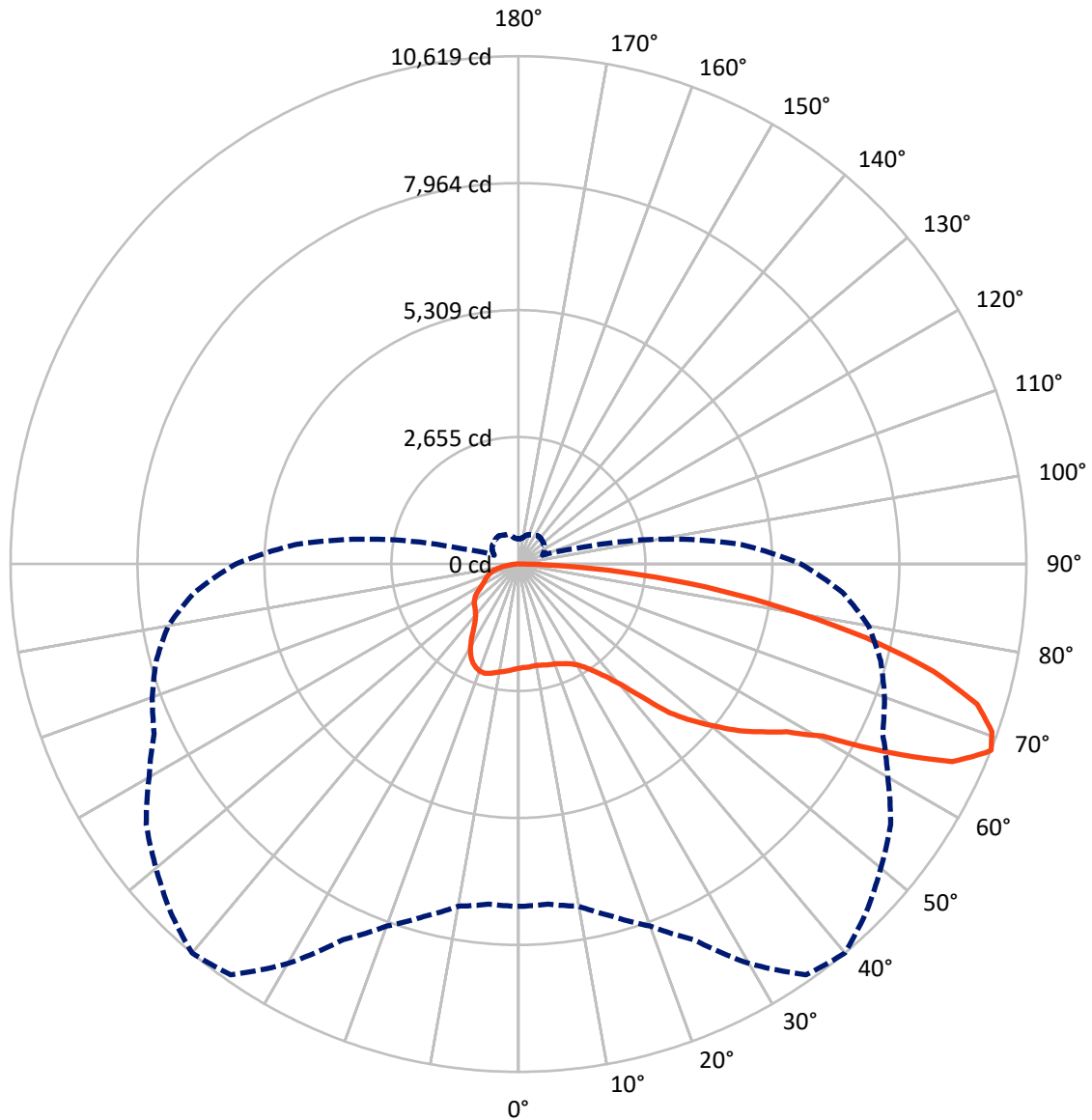
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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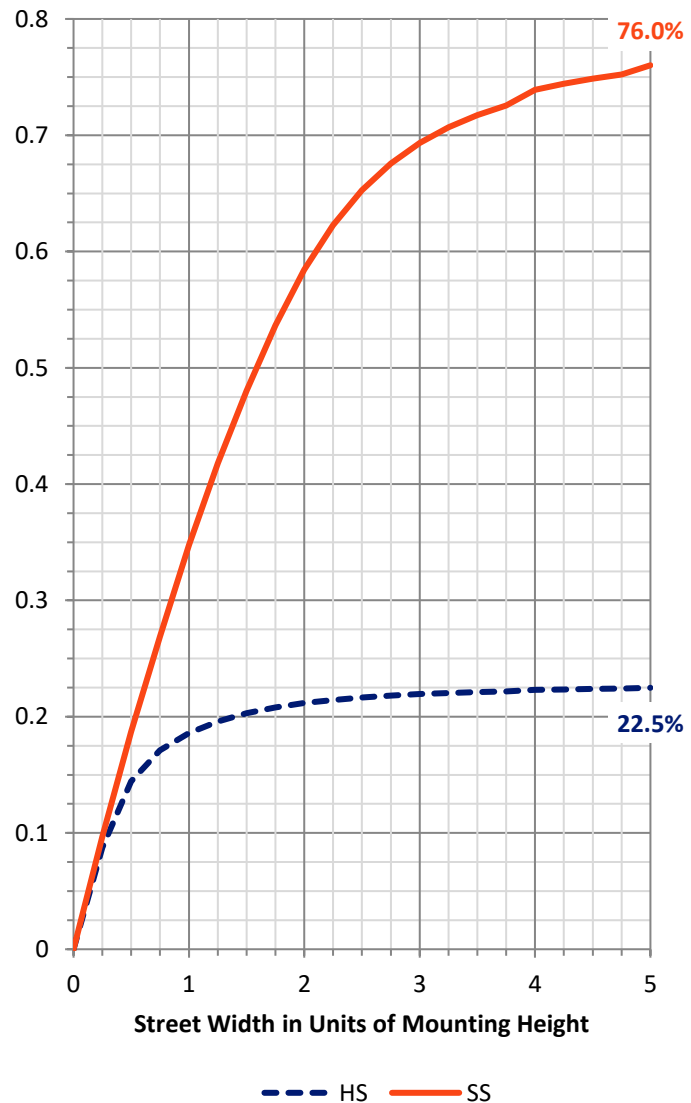
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4347.9	0.0	4347.9
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	14757.1	0.0	14757.1
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	19105.0	0.0	19105.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.7	1.1
10°-20°	646.8	3.4
20°-30°	1088.7	5.7
30°-40°	1632.2	8.5
40°-50°	2673.6	14.0
50°-60°	3812.7	20.0
60°-70°	4804.2	25.1
70°-80°	3529.8	18.5
80°-90°	706.2	3.7
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°	19105.0	100.0
0°-180°	19105.0	100.0



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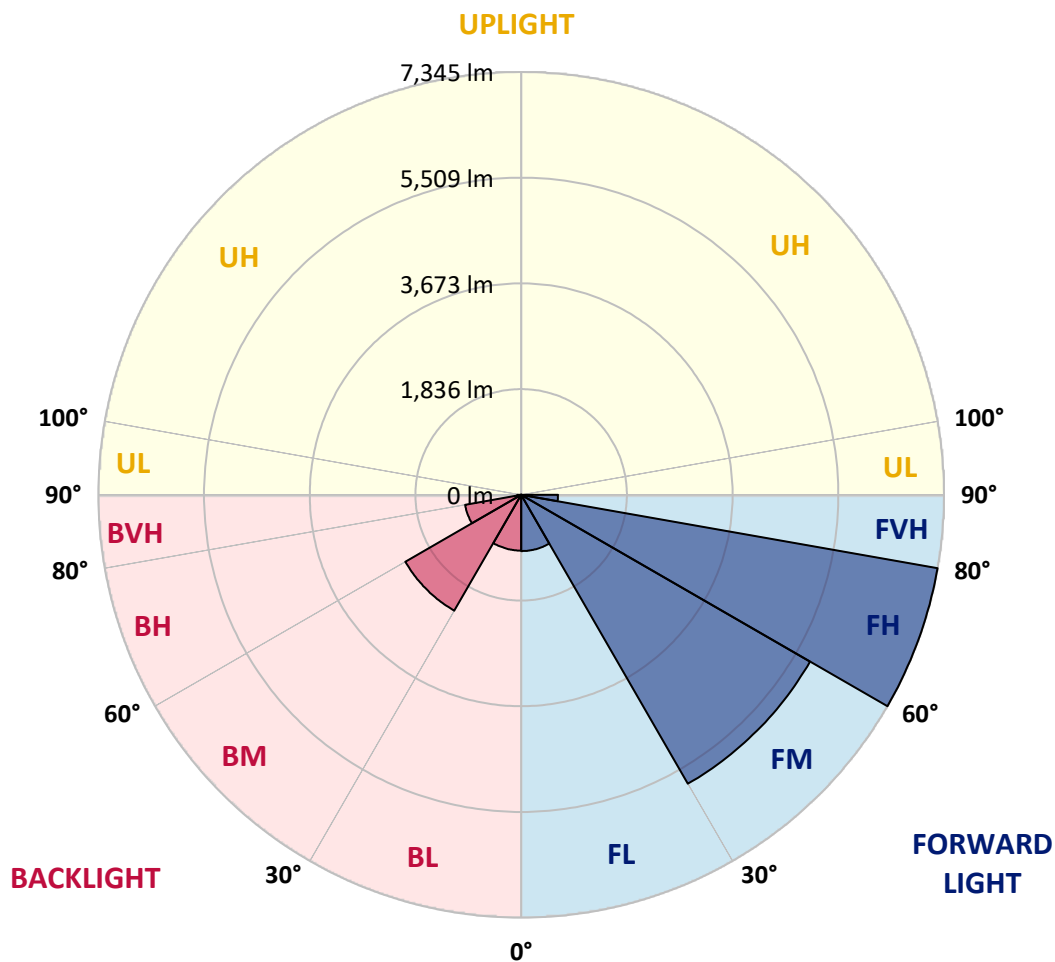
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.4	5.1			
FM (30°-60°)	5794.1	30.3			
FH (60°-80°)	7345.2	38.4			G3/7500
FVH (80°-90°)	640.4	3.4			G4/750
BL (0°-30°)	968.8	5.1	B2/1000		
BM (30°-60°)	2324.4	12.2	B2/2500		
BH (60°-80°)	988.9	5.2	B2/1000		G2/1000
BVH (80°-90°)	65.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9
2.5°	2190.0	2188.7	2178.6	2176.1	2167.3	2168.6	2166.1	2162.3	2163.5	2156.0	2156.0
5°	2187.5	2187.5	2177.4	2174.9	2169.8	2174.9	2173.6	2166.1	2168.6	2167.3	2166.1
7.5°	2167.3	2164.8	2153.5	2152.2	2148.4	2156.0	2158.5	2152.2	2154.7	2163.5	2166.1
10°	2149.7	2151.0	2140.9	2140.9	2138.4	2151.0	2157.2	2153.5	2156.0	2168.6	2169.8
12.5°	2122.0	2125.8	2119.5	2122.0	2123.3	2140.9	2157.2	2162.3	2168.6	2179.9	2186.2
15°	2109.4	2110.7	2106.9	2111.9	2118.2	2138.4	2158.5	2173.6	2190.0	2206.3	2216.4
17.5°	2129.6	2128.3	2122.0	2123.3	2127.0	2144.7	2169.8	2192.5	2207.6	2224.0	2242.8
20°	2135.9	2139.6	2135.9	2139.6	2145.9	2164.8	2197.5	2217.7	2229.0	2244.1	2269.3
22.5°	2174.9	2169.8	2168.6	2172.4	2171.1	2188.7	2217.7	2247.9	2266.7	2275.6	2302.0
25°	2213.9	2210.1	2210.1	2217.7	2217.7	2231.5	2259.2	2284.4	2305.8	2333.5	2368.7
27.5°	2255.4	2252.9	2252.9	2268.0	2275.6	2288.1	2315.8	2343.5	2366.2	2393.9	2444.2
30°	2339.7	2334.7	2324.6	2342.3	2346.0	2357.4	2392.6	2421.6	2450.5	2487.0	2534.8
32.5°	2485.7	2476.9	2460.6	2461.8	2455.5	2464.3	2517.2	2536.1	2576.4	2614.1	2655.7
35°	2807.9	2776.5	2740.0	2717.3	2687.1	2659.4	2693.4	2719.8	2761.4	2799.1	2853.3
37.5°	3282.4	3223.3	3169.2	3144.0	3088.6	3015.6	2991.7	2953.9	2990.4	3053.4	3118.8
40°	3811.1	3811.1	3750.6	3681.4	3592.1	3470.0	3404.5	3340.3	3317.7	3339.1	3436.0
42.5°	4314.5	4330.9	4273.0	4201.2	4125.7	3998.6	3911.7	3857.6	3812.3	3789.7	3822.4
45°	4782.7	4843.1	4806.6	4727.3	4678.2	4625.4	4597.7	4499.5	4439.1	4348.5	4317.0
47.5°	5131.3	5190.5	5151.5	5035.7	5006.7	4997.9	4996.7	4932.5	4894.7	4810.4	4758.8
50°	5493.8	5580.7	5511.4	5307.5	5325.2	5331.4	5344.0	5326.4	5330.2	5311.3	5282.4
52.5°	6062.7	6071.5	5827.3	5662.5	5629.7	5637.3	5692.7	5720.4	5792.1	5730.4	5743.0
55°	6889.6	6621.5	6311.9	6184.8	6048.9	5991.0	5999.8	6081.6	6194.9	6139.5	6147.0
57.5°	7164.0	7209.3	7224.4	6962.6	6884.6	6718.4	6683.2	6513.3	6620.3	6543.5	6568.7
60°	7740.4	7867.5	7838.6	7902.8	7740.4	7734.1	7789.5	7417.0	7310.0	7098.5	7046.9
62.5°	8384.8	8383.6	8558.5	8607.6	8674.3	8572.4	8793.9	8752.3	8666.7	8050.0	7677.5
65°	8125.5	8120.5	8235.0	8621.4	8754.9	9048.1	9374.1	9824.7	9963.1	9669.9	9068.2
67.5°	7243.3	7276.0	7417.0	7876.3	8256.4	8780.0	9578.0	10417.5	10533.3	10238.7	9833.5
68°	7158.9	7138.8	7264.7	7630.9	8056.3	8664.2	9645.9	10486.7	10618.8	10289.1	9891.4
70°	6203.7	6183.5	6417.6	6833.0	7293.6	8175.9	9732.8	10469.1	10503.1	10202.2	9842.3
72.5°	4833.0	4809.1	5029.4	5365.4	5880.2	6836.7	8989.0	10009.7	10029.8	9745.4	9454.6
75°	3511.5	3482.6	3689.0	3986.0	4412.7	5254.7	7438.4	8728.4	8970.1	9002.8	8914.7
77.5°	2422.8	2483.2	2687.1	2902.3	3282.4	3920.6	5622.2	6976.4	7445.9	7741.7	7941.8
80°	1628.6	1728.1	1885.4	2089.3	2392.6	2893.5	4182.3	5213.1	5622.2	5918.0	6062.7
82.5°	1068.6	1083.7	1212.0	1388.2	1650.0	2052.8	2953.9	3699.0	3934.4	3972.2	3827.4
85°	561.3	605.4	684.7	795.4	959.1	1202.0	1636.2	2117.0	2203.8	2187.5	1976.0
87.5°	205.2	222.8	261.8	314.7	392.7	508.5	658.3	736.3	557.6	410.3	293.3
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°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9
2.5°	2159.8	2149.7	2148.4	2167.3	2162.3	2162.3	2159.8	2168.6	2159.8	2159.8	2172.4
5°	2164.8	2158.5	2158.5	2178.6	2183.7	2178.6	2183.7	2183.7	2181.2	2186.2	2195.0
7.5°	2163.5	2166.1	2167.3	2179.9	2195.0	2188.7	2203.8	2195.0	2206.3	2216.4	2218.9
10°	2163.5	2178.6	2184.9	2188.7	2202.6	2203.8	2215.1	2206.3	2224.0	2237.8	2240.3
12.5°	2186.2	2205.1	2227.7	2232.8	2244.1	2260.5	2261.7	2260.5	2283.1	2293.2	2304.5
15°	2224.0	2246.6	2274.3	2286.9	2302.0	2333.5	2329.7	2343.5	2368.7	2380.0	2400.2
17.5°	2264.2	2289.4	2322.1	2346.0	2368.7	2406.5	2403.9	2430.4	2455.5	2473.2	2495.8
20°	2300.7	2334.7	2372.5	2406.5	2444.2	2480.7	2488.3	2519.7	2555.0	2582.7	2601.5
22.5°	2343.5	2381.3	2422.8	2471.9	2519.7	2555.0	2587.7	2634.3	2673.3	2701.0	2712.3
25°	2411.5	2450.5	2497.1	2566.3	2619.2	2663.2	2723.6	2781.5	2818.0	2828.1	2824.3
27.5°	2497.1	2541.1	2597.8	2688.4	2746.3	2811.7	2898.6	2948.9	2969.0	2950.2	2901.1
30°	2596.5	2656.9	2727.4	2823.0	2898.6	3004.3	3110.0	3152.8	3130.1	3057.1	2950.2
32.5°	2733.7	2818.0	2901.1	3004.3	3128.9	3277.4	3386.9	3402.0	3315.2	3166.6	2996.7
35°	2950.2	3052.1	3157.8	3296.3	3524.1	3724.2	3813.6	3760.7	3575.7	3337.8	3082.3
37.5°	3240.9	3365.5	3522.8	3726.7	4065.3	4294.4	4332.1	4211.3	3936.9	3584.5	3205.7
40°	3582.0	3750.6	3959.6	4308.2	4670.7	4878.4	4865.8	4688.3	4335.9	3870.2	3370.5
42.5°	4009.9	4196.2	4459.2	4864.5	5273.6	5419.5	5359.1	5141.4	4724.8	4174.8	3550.5
45°	4427.8	4617.8	4914.8	5369.2	5761.9	5875.2	5779.5	5532.8	5073.4	4464.3	3754.4
47.5°	4845.6	4976.5	5354.1	5850.0	6218.8	6280.4	6140.7	5828.6	5362.9	4713.5	3901.7
50°	5337.7	5438.4	5832.4	6353.4	6627.8	6640.4	6491.9	6086.6	5566.8	4864.5	4012.4
52.5°	5799.6	5968.3	6376.1	6819.1	6987.8	6929.9	6762.5	6316.9	5715.3	5020.6	4043.9
55°	6246.5	6494.4	6938.7	7228.2	7296.1	7201.7	6943.7	6481.8	5838.7	5021.8	4017.5
57.5°	6676.9	7020.5	7435.8	7624.6	7594.4	7403.1	7016.7	6519.6	5851.3	4951.3	3911.7
60°	7147.6	7503.8	7867.5	7909.1	7778.2	7515.1	7079.6	6532.2	5778.3	4805.4	3731.8
62.5°	7663.6	7939.3	8148.2	8063.9	7881.4	7605.7	7106.1	6410.1	5656.2	4556.1	3313.9
65°	8368.5	8376.0	8357.1	8182.2	7904.0	7525.2	6995.3	6334.6	5350.3	4082.9	2578.9
67.5°	9410.6	8837.9	8421.3	8159.5	7852.4	7440.9	6864.4	5969.6	4828.0	3214.5	1478.9
68°	9501.2	8918.5	8402.4	8145.7	7842.4	7432.1	6799.0	5904.1	4668.2	2981.6	1246.0
70°	9522.6	8918.5	8287.9	8065.1	7802.1	7263.4	6452.9	5277.3	3813.6	1913.1	518.5
72.5°	9238.2	8590.0	8150.7	7994.7	7539.0	6690.7	5496.3	4022.5	2314.6	600.4	395.2
75°	8856.8	8198.5	7663.6	7204.3	6537.2	5342.8	3945.7	2314.6	675.9	293.3	343.6
77.5°	7725.3	7009.2	6395.0	5802.2	4786.5	3457.4	1954.6	590.3	212.7	235.4	289.5
80°	5501.4	4707.2	3814.8	2987.9	1721.8	657.0	236.6	151.0	153.5	178.7	232.8
82.5°	3024.4	2007.5	1198.2	464.4	161.1	138.4	124.6	103.2	108.2	144.7	169.9
85°	1317.8	635.6	192.6	117.1	101.9	93.1	79.3	71.7	91.9	95.7	91.9
87.5°	124.6	62.9	50.3	47.8	39.0	34.0	25.2	23.9	22.7	22.7	26.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9	2179.9
2.5°	2169.8	2172.4	2182.4	2179.9	2187.5	2198.8	2200.0	2206.3	2213.9	2221.4	2231.5
5°	2205.1	2205.1	2210.1	2206.3	2212.6	2218.9	2229.0	2231.5	2241.6	2256.7	2270.5
7.5°	2231.5	2230.2	2231.5	2241.6	2249.1	2249.1	2259.2	2260.5	2270.5	2283.1	2294.4
10°	2257.9	2274.3	2269.3	2276.8	2279.3	2280.6	2285.6	2288.1	2302.0	2307.0	2315.8
12.5°	2315.8	2330.9	2322.1	2333.5	2334.7	2328.4	2320.9	2319.6	2319.6	2314.6	2310.8
15°	2400.2	2407.7	2402.7	2393.9	2387.6	2386.3	2362.4	2343.5	2327.2	2304.5	2286.9
17.5°	2494.6	2490.8	2476.9	2465.6	2440.4	2422.8	2391.3	2349.8	2312.1	2263.0	2229.0
20°	2595.2	2568.8	2561.3	2522.2	2476.9	2432.9	2382.5	2324.6	2256.7	2184.9	2127.0
22.5°	2684.6	2645.6	2610.3	2558.7	2488.3	2421.6	2343.5	2269.3	2183.7	2085.5	2002.4
25°	2768.9	2694.7	2634.3	2558.7	2466.9	2380.0	2281.8	2187.5	2075.4	1953.4	1845.1
27.5°	2815.5	2714.8	2616.6	2514.7	2410.2	2291.9	2183.7	2065.4	1933.2	1794.8	1665.1
30°	2820.5	2698.4	2570.1	2429.1	2303.2	2166.1	2038.9	1891.7	1746.9	1603.5	1505.3
32.5°	2823.0	2651.9	2480.7	2312.1	2157.2	1998.7	1852.7	1690.3	1568.2	1480.1	1404.6
35°	2825.6	2595.2	2376.2	2154.7	1978.5	1807.4	1653.8	1526.7	1439.8	1381.9	1321.5
37.5°	2853.3	2542.4	2263.0	1999.9	1804.8	1633.7	1505.3	1408.4	1349.2	1306.4	1261.1
40°	2884.7	2479.5	2143.4	1853.9	1652.5	1501.5	1405.9	1345.4	1301.4	1268.7	1232.2
42.5°	2907.4	2370.0	1979.8	1707.9	1514.1	1395.8	1341.7	1308.9	1283.8	1259.9	1219.6
45°	2947.7	2249.1	1796.0	1522.9	1385.7	1314.0	1291.3	1280.0	1261.1	1237.2	1193.2
47.5°	2995.5	2120.7	1609.8	1368.1	1269.9	1258.6	1257.3	1247.3	1220.8	1195.7	1150.4
50°	3020.7	1993.6	1413.4	1238.5	1198.2	1207.0	1214.6	1204.5	1165.5	1129.0	1088.7
52.5°	3098.7	1937.0	1235.9	1135.3	1137.8	1146.6	1151.6	1137.8	1100.0	1062.3	1020.7
55°	3223.3	1855.2	1103.8	1033.3	1056.0	1068.6	1081.1	1059.7	1034.6	1006.9	975.4
57.5°	3048.3	1554.4	966.6	937.7	951.5	962.8	971.6	971.6	971.6	974.2	951.5
60°	2468.1	1106.3	835.7	816.8	834.5	857.1	886.1	902.4	908.7	911.2	901.2
62.5°	1738.1	785.4	719.9	731.2	753.9	791.7	819.4	837.0	834.5	819.4	796.7
65°	972.9	653.2	664.5	698.5	717.4	747.6	772.8	782.9	764.0	741.3	721.2
67.5°	548.8	599.1	644.4	673.4	689.7	707.3	722.4	733.8	711.1	684.7	669.6
68°	534.9	591.5	639.4	664.5	680.9	698.5	709.9	717.4	693.5	669.6	657.0
70°	498.4	577.7	618.0	638.1	639.4	668.3	670.8	675.9	655.7	628.0	611.7
72.5°	456.9	547.5	567.6	584.0	597.8	607.9	631.8	621.8	596.6	572.7	534.9
75°	421.6	469.5	488.3	526.1	536.2	552.5	565.1	541.2	503.4	480.8	458.1
77.5°	366.3	390.2	410.3	417.9	448.1	460.6	474.5	474.5	451.8	454.4	420.4
80°	281.9	284.4	276.9	299.5	339.8	356.2	361.2	351.2	367.5	365.0	351.2
82.5°	162.4	151.0	163.6	169.9	190.0	205.2	230.3	251.7	254.2	246.7	261.8
85°	68.0	60.4	69.2	79.3	100.7	124.6	153.5	164.9	162.4	157.3	144.7
87.5°	27.7	27.7	32.7	39.0	51.6	65.4	74.3	86.8	94.4	96.9	90.6
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):**

	165°	170°	175°	180°
0°	2179.9	2179.9	2179.9	2179.9
2.5°	2235.3	2234.0	2232.8	2230.2
5°	2274.3	2275.6	2275.6	2274.3
7.5°	2303.2	2309.5	2310.8	2310.8
10°	2325.9	2330.9	2332.2	2330.9
12.5°	2318.3	2319.6	2324.6	2325.9
15°	2283.1	2274.3	2271.8	2270.5
17.5°	2200.0	2177.4	2158.5	2149.7
20°	2069.1	2025.1	1988.6	1979.8
22.5°	1923.1	1855.2	1807.4	1791.0
25°	1746.9	1662.6	1611.0	1594.7
27.5°	1574.5	1491.4	1454.9	1434.8
30°	1432.3	1370.6	1330.3	1310.2
32.5°	1337.9	1277.5	1235.9	1217.1
35°	1259.9	1196.9	1141.6	1116.4
37.5°	1208.3	1134.0	1069.8	1044.6
40°	1178.1	1111.3	1042.1	1014.4
42.5°	1163.0	1106.3	1044.6	1014.4
45°	1139.0	1078.6	1025.8	993.0
47.5°	1102.5	1045.9	993.0	962.8
50°	1035.8	977.9	935.1	911.2
52.5°	965.3	901.2	855.9	829.4
55°	917.5	853.3	818.1	800.5
57.5°	908.7	848.3	813.1	792.9
60°	857.1	799.2	753.9	732.5
62.5°	746.4	689.7	654.5	640.6
65°	677.1	623.0	589.0	579.0
67.5°	631.8	575.2	539.9	532.4
68°	620.5	563.9	533.6	523.6
70°	568.9	514.8	488.3	478.3
72.5°	459.4	406.5	371.3	358.7
75°	400.2	342.3	313.4	307.1
77.5°	351.2	283.2	254.2	247.9
80°	284.4	224.0	153.5	143.5
82.5°	212.7	137.2	114.5	104.5
85°	123.3	94.4	74.3	69.2
87.5°	78.0	65.4	56.6	52.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)