

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: P200751

Luminaire Tested: **VERD-M-A0485-E-U-T4-7050-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200751  
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-A0485-E-U-T4-7050-AP  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(4) 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: 25789 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

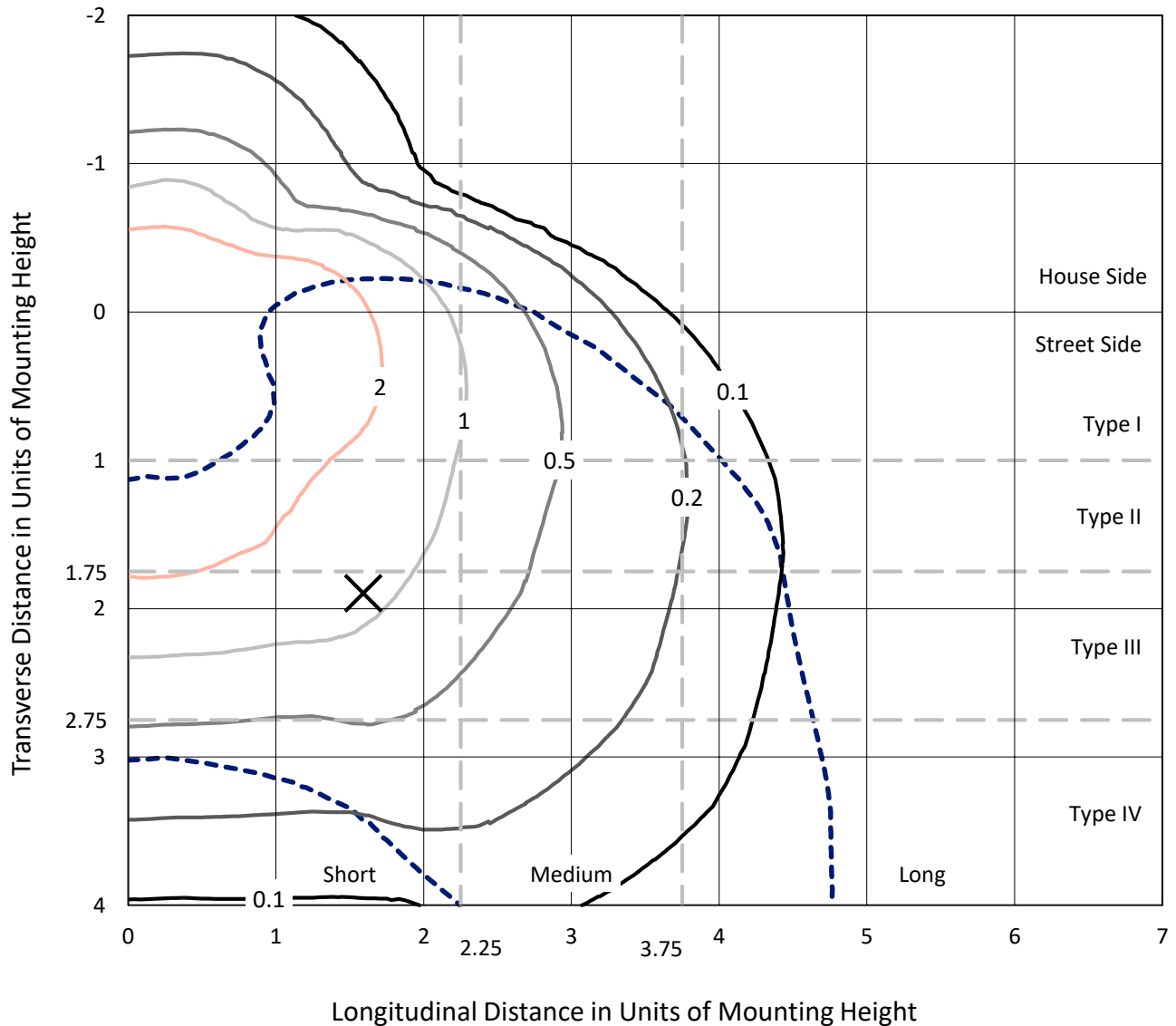
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

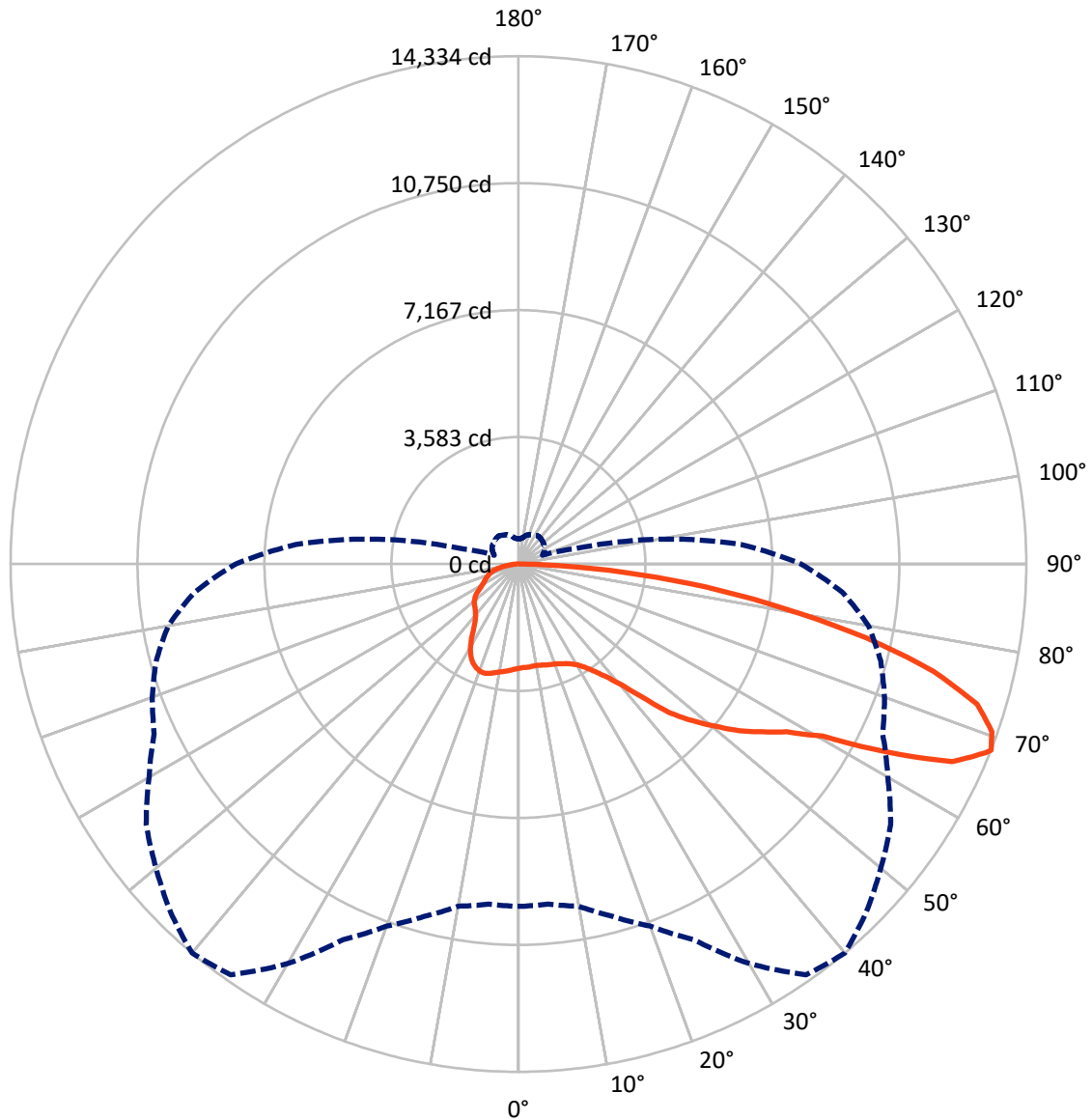
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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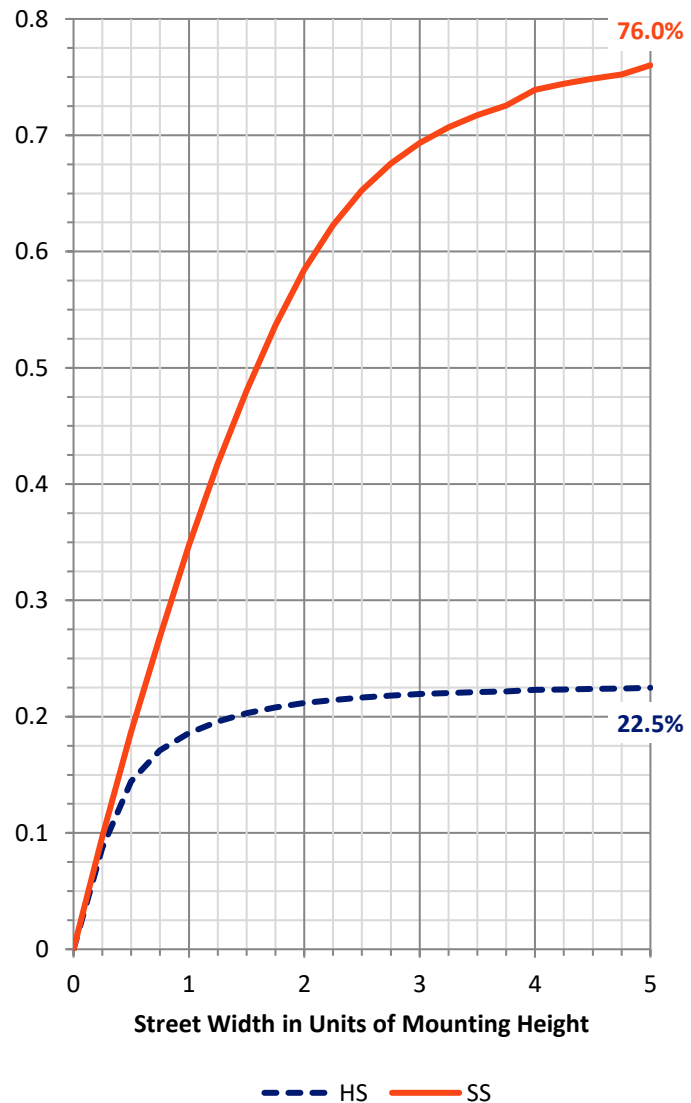
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5869.0	0.0	5869.0
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	19920.0	0.0	19920.0
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	25789.0	0.0	25789.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.4	1.1
10°-20°	873.0	3.4
20°-30°	1469.6	5.7
30°-40°	2203.2	8.5
40°-50°	3609.0	14.0
50°-60°	5146.7	20.0
60°-70°	6485.0	25.1
70°-80°	4764.8	18.5
80°-90°	953.2	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°	25789.0	100.0
0°-180°	25789.0	100.0



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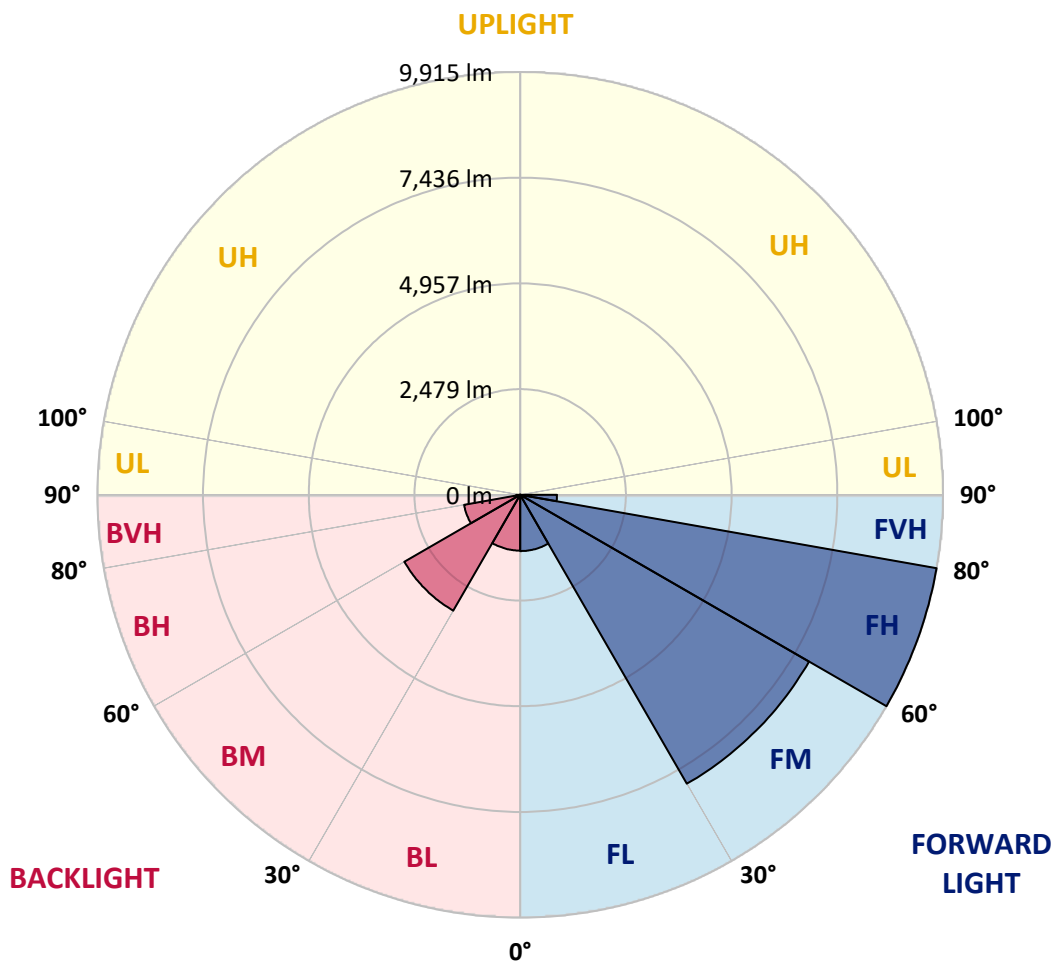
CATALOG NUMBER: VERD-M-A0485-E-U-T4-7050-AP

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1319.4	5.1			
FM	(30°-60°)	7821.3	30.3			
FH	(60°-80°)	9914.9	38.4			G4/12000
FVH	(80°-90°)	864.4	3.4			G5
BL	(0°-30°)	1307.7	5.1	B3/2500		
BM	(30°-60°)	3137.6	12.2	B3/5000		
BH	(60°-80°)	1334.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	88.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6
2.5°	2956.1	2954.4	2940.9	2937.5	2925.6	2927.3	2923.9	2918.8	2920.5	2910.3	2910.3
5°	2952.7	2952.7	2939.2	2935.8	2929.0	2935.8	2934.1	2923.9	2927.3	2925.6	2923.9
7.5°	2925.6	2922.2	2906.9	2905.2	2900.1	2910.3	2913.7	2905.2	2908.6	2920.5	2923.9
10°	2901.8	2903.5	2889.9	2889.9	2886.5	2903.5	2912.0	2906.9	2910.3	2927.3	2929.0
12.5°	2864.4	2869.5	2861.0	2864.4	2866.1	2889.9	2912.0	2918.8	2927.3	2942.6	2951.0
15°	2847.4	2849.1	2844.0	2850.8	2859.3	2886.5	2913.7	2934.1	2956.1	2978.2	2991.8
17.5°	2874.6	2872.9	2864.4	2866.1	2871.2	2895.0	2929.0	2959.5	2979.9	3002.0	3027.5
20°	2883.1	2888.2	2883.1	2888.2	2896.7	2922.2	2966.3	2993.5	3008.8	3029.2	3063.2
22.5°	2935.8	2929.0	2927.3	2932.4	2930.7	2954.4	2993.5	3034.3	3059.8	3071.7	3107.4
25°	2988.4	2983.3	2983.3	2993.5	2993.5	3012.2	3049.6	3083.6	3112.4	3149.8	3197.4
27.5°	3044.5	3041.1	3041.1	3061.5	3071.7	3088.7	3126.0	3163.4	3194.0	3231.4	3299.3
30°	3158.3	3151.5	3137.9	3161.7	3166.8	3182.1	3229.7	3268.8	3307.8	3357.1	3421.7
32.5°	3355.4	3343.5	3321.4	3323.1	3314.6	3326.5	3397.9	3423.4	3477.7	3528.7	3584.8
35°	3790.3	3747.8	3698.6	3668.0	3627.2	3589.8	3635.7	3671.4	3727.5	3778.4	3851.5
37.5°	4430.8	4351.0	4277.9	4243.9	4169.2	4070.6	4038.4	3987.4	4036.7	4121.6	4210.0
40°	5144.4	5144.4	5062.8	4969.4	4848.8	4684.0	4595.6	4509.0	4478.4	4507.3	4638.1
42.5°	5823.9	5846.0	5767.9	5671.0	5569.1	5397.5	5280.3	5207.2	5146.1	5115.5	5159.7
45°	6456.0	6537.5	6488.2	6381.2	6314.9	6243.6	6206.2	6073.7	5992.1	5869.8	5827.3
47.5°	6926.6	7006.4	6953.7	6797.4	6758.4	6746.5	6744.8	6658.1	6607.2	6493.3	6423.7
50°	7415.8	7533.1	7439.6	7164.4	7188.2	7196.7	7213.7	7189.9	7195.0	7169.5	7130.4
52.5°	8183.8	8195.7	7866.1	7643.5	7599.3	7609.5	7684.3	7721.7	7818.5	7735.2	7752.2
55°	9300.0	8938.1	8520.2	8348.6	8165.1	8086.9	8098.8	8209.3	8362.2	8287.4	8297.6
57.5°	9670.3	9731.5	9751.9	9398.5	9293.2	9068.9	9021.3	8792.0	8936.4	8832.8	8866.7
60°	10448.4	10620.0	10581.0	10667.6	10448.4	10440.0	10514.7	10011.8	9867.4	9582.0	9512.3
62.5°	11318.3	11316.6	11552.8	11619.0	11709.1	11571.4	11870.5	11814.4	11698.9	10866.4	10363.5
65°	10968.3	10961.5	11116.1	11637.7	11817.8	12213.6	12653.7	13261.9	13448.8	13052.9	12240.8
67.5°	9777.4	9821.5	10011.8	10631.9	11145.0	11851.8	12928.9	14062.1	14218.4	13820.8	13273.8
68°	9663.5	9636.4	9806.3	10300.6	10874.9	11695.5	13020.6	14155.5	14333.9	13888.8	13351.9
70°	8374.0	8346.9	8662.9	9223.5	9845.3	11036.3	13137.9	14131.7	14177.6	13771.6	13285.7
72.5°	6523.9	6491.6	6788.9	7242.6	7937.4	9228.6	12133.8	13511.6	13538.8	13154.9	12762.4
75°	4740.0	4701.0	4979.6	5380.5	5956.5	7093.1	10040.7	11782.1	12108.3	12152.5	12033.6
77.5°	3270.4	3352.0	3627.2	3917.7	4430.8	5292.2	7589.1	9417.2	10050.9	10450.1	10720.3
80°	2198.4	2332.6	2545.0	2820.2	3229.7	3905.9	5645.6	7037.0	7589.1	7988.4	8183.8
82.5°	1442.4	1462.8	1636.1	1873.9	2227.3	2771.0	3987.4	4993.2	5310.9	5361.8	5166.5
85°	757.7	817.2	924.2	1073.7	1294.6	1622.5	2208.6	2857.6	2974.8	2952.7	2667.3
87.5°	276.9	300.7	353.4	424.7	530.1	686.4	888.5	993.9	752.6	553.9	395.9
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°	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6
2.5°	2915.4	2901.8	2900.1	2925.6	2918.8	2918.8	2915.4	2927.3	2915.4	2915.4	2932.4
5°	2922.2	2913.7	2913.7	2940.9	2947.7	2940.9	2947.7	2947.7	2944.3	2951.0	2962.9
7.5°	2920.5	2923.9	2925.6	2942.6	2962.9	2954.4	2974.8	2962.9	2978.2	2991.8	2995.2
10°	2920.5	2940.9	2949.4	2954.4	2973.1	2974.8	2990.1	2978.2	3002.0	3020.7	3024.1
12.5°	2951.0	2976.5	3007.1	3013.9	3029.2	3051.3	3053.0	3051.3	3081.9	3095.5	3110.7
15°	3002.0	3032.6	3070.0	3087.0	3107.4	3149.8	3144.7	3163.4	3197.4	3212.7	3239.9
17.5°	3056.4	3090.4	3134.5	3166.8	3197.4	3248.4	3245.0	3280.6	3314.6	3338.4	3369.0
20°	3105.7	3151.5	3202.5	3248.4	3299.3	3348.6	3358.8	3401.3	3448.8	3486.2	3511.7
22.5°	3163.4	3214.4	3270.4	3336.7	3401.3	3448.8	3493.0	3555.9	3608.5	3645.9	3661.2
25°	3255.2	3307.8	3370.7	3464.1	3535.5	3594.9	3676.5	3754.6	3803.9	3817.5	3812.4
27.5°	3370.7	3430.1	3506.6	3628.9	3707.1	3795.4	3912.6	3980.6	4007.8	3982.3	3916.0
30°	3504.9	3586.5	3681.6	3810.7	3912.6	4055.4	4198.1	4255.8	4225.3	4126.7	3982.3
32.5°	3690.1	3803.9	3916.0	4055.4	4223.6	4424.0	4571.8	4592.2	4475.0	4274.5	4045.2
35°	3982.3	4119.9	4262.6	4449.5	4757.0	5027.1	5147.8	5076.4	4826.7	4505.6	4160.7
37.5°	4374.8	4543.0	4755.3	5030.5	5487.6	5796.8	5847.7	5684.6	5314.3	4838.6	4327.2
40°	4835.2	5062.8	5344.8	5815.5	6304.7	6585.1	6568.1	6328.5	5852.8	5224.2	4549.7
42.5°	5412.8	5664.2	6019.3	6566.4	7118.5	7315.6	7234.1	6940.1	6377.8	5635.4	4792.7
45°	5976.9	6233.4	6634.3	7247.7	7777.7	7930.6	7801.5	7468.5	6848.4	6026.1	5067.9
47.5°	6540.9	6717.6	7227.3	7896.6	8394.4	8477.7	8289.1	7867.8	7239.2	6362.5	5266.7
50°	7205.2	7341.1	7872.9	8576.2	8946.6	8963.6	8763.1	8216.0	7514.4	6566.4	5416.2
52.5°	7828.7	8056.3	8606.8	9204.8	9432.5	9354.3	9128.4	8527.0	7714.9	6777.1	5458.7
55°	8431.8	8766.5	9366.2	9757.0	9848.7	9721.3	9373.0	8749.5	7881.4	6778.7	5423.0
57.5°	9012.8	9476.7	10037.3	10292.1	10251.4	9993.1	9471.6	8800.5	7898.3	6683.6	5280.3
60°	9648.2	10129.0	10620.0	10676.1	10499.4	10144.3	9556.5	8817.5	7799.8	6486.5	5037.3
62.5°	10344.8	10716.9	10998.9	10885.1	10638.7	10266.7	9592.2	8652.7	7635.0	6150.1	4473.3
65°	11296.2	11306.4	11280.9	11044.8	10669.3	10157.9	9442.7	8550.7	7222.2	5511.3	3481.1
67.5°	12702.9	11929.9	11367.6	11014.2	10599.7	10044.1	9266.0	8058.0	6517.1	4339.1	1996.2
68°	12825.3	12038.7	11342.1	10995.5	10586.1	10032.2	9177.6	7969.7	6301.3	4024.8	1681.9
70°	12854.1	12038.7	11187.5	10886.8	10531.7	9804.6	8710.4	7123.6	5147.8	2582.4	700.0
72.5°	12470.2	11595.2	11002.3	10791.6	10176.6	9031.5	7419.2	5429.8	3124.3	810.4	533.5
75°	11955.4	11066.9	10344.8	9724.7	8824.3	7212.0	5326.2	3124.3	912.3	395.9	463.8
77.5°	10428.1	9461.4	8632.3	7832.1	6461.0	4667.0	2638.4	796.8	287.1	317.7	390.8
80°	7426.0	6354.0	5149.5	4033.3	2324.1	886.8	319.4	203.9	207.3	241.2	314.3
82.5°	4082.5	2709.8	1617.4	626.9	217.5	186.9	168.2	139.3	146.1	195.4	229.4
85°	1778.8	858.0	259.9	158.0	137.6	125.7	107.0	96.8	124.0	129.1	124.0
87.5°	168.2	84.9	68.0	64.6	52.7	45.9	34.0	32.3	30.6	30.6	35.7
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6	2942.6
2.5°	2929.0	2932.4	2946.0	2942.6	2952.7	2968.0	2969.7	2978.2	2988.4	2998.6	3012.2
5°	2976.5	2976.5	2983.3	2978.2	2986.7	2995.2	3008.8	3012.2	3025.8	3046.2	3064.9
7.5°	3012.2	3010.5	3012.2	3025.8	3036.0	3036.0	3049.6	3051.3	3064.9	3081.9	3097.2
10°	3047.9	3070.0	3063.2	3073.4	3076.8	3078.5	3085.3	3088.7	3107.4	3114.1	3126.0
12.5°	3126.0	3146.4	3134.5	3149.8	3151.5	3143.0	3132.8	3131.1	3131.1	3124.3	3119.2
15°	3239.9	3250.1	3243.3	3231.4	3222.9	3221.2	3188.9	3163.4	3141.3	3110.7	3087.0
17.5°	3367.3	3362.2	3343.5	3328.2	3294.2	3270.4	3228.0	3171.9	3120.9	3054.7	3008.8
20°	3503.2	3467.5	3457.3	3404.7	3343.5	3284.0	3216.1	3137.9	3046.2	2949.4	2871.2
22.5°	3623.8	3571.2	3523.6	3453.9	3358.8	3268.8	3163.4	3063.2	2947.7	2815.1	2703.0
25°	3737.7	3637.4	3555.9	3453.9	3329.9	3212.7	3080.2	2952.7	2801.5	2636.7	2490.6
27.5°	3800.5	3664.6	3532.1	3394.5	3253.5	3093.8	2947.7	2788.0	2609.6	2422.7	2247.7
30°	3807.3	3642.5	3469.2	3278.9	3109.1	2923.9	2752.3	2553.5	2358.1	2164.4	2031.9
32.5°	3810.7	3579.7	3348.6	3120.9	2912.0	2697.9	2500.8	2281.7	2116.9	1997.9	1896.0
35°	3814.1	3503.2	3207.6	2908.6	2670.7	2439.7	2232.4	2060.8	1943.6	1865.4	1783.9
37.5°	3851.5	3431.8	3054.7	2699.6	2436.3	2205.2	2031.9	1901.1	1821.3	1763.5	1702.3
40°	3894.0	3346.9	2893.3	2502.5	2230.7	2026.8	1897.7	1816.2	1756.7	1712.5	1663.3
42.5°	3924.5	3199.1	2672.4	2305.5	2043.8	1884.1	1811.1	1766.9	1732.9	1700.6	1646.3
45°	3978.9	3036.0	2424.4	2055.7	1870.5	1773.7	1743.1	1727.8	1702.3	1670.1	1610.6
47.5°	4043.5	2862.7	2172.9	1846.7	1714.2	1698.9	1697.2	1683.6	1648.0	1614.0	1552.8
50°	4077.4	2691.1	1907.9	1671.8	1617.4	1629.3	1639.5	1625.9	1573.2	1523.9	1469.6
52.5°	4182.8	2614.7	1668.4	1532.4	1535.8	1547.7	1554.5	1535.8	1484.9	1433.9	1377.8
55°	4351.0	2504.2	1490.0	1394.8	1425.4	1442.4	1459.4	1430.5	1396.5	1359.1	1316.7
57.5°	4114.8	2098.2	1304.8	1265.7	1284.4	1299.7	1311.6	1311.6	1311.6	1315.0	1284.4
60°	3331.6	1493.4	1128.1	1102.6	1126.4	1157.0	1196.0	1218.1	1226.6	1230.0	1216.4
62.5°	2346.2	1060.1	971.8	987.1	1017.7	1068.6	1106.0	1129.8	1126.4	1106.0	1075.4
65°	1313.3	881.7	897.0	942.9	968.4	1009.2	1043.1	1056.7	1031.3	1000.7	973.5
67.5°	740.7	808.7	869.9	908.9	931.0	954.8	975.2	990.5	959.9	924.2	903.8
68°	722.0	798.5	863.1	897.0	919.1	942.9	958.2	968.4	936.1	903.8	886.8
70°	672.8	779.8	834.2	861.4	863.1	902.1	905.5	912.3	885.1	847.8	825.7
72.5°	616.7	739.0	766.2	788.3	807.0	820.6	852.9	839.3	805.3	773.0	722.0
75°	569.1	633.7	659.2	710.2	723.7	745.8	762.8	730.5	679.6	649.0	618.4
77.5°	494.4	526.7	553.9	564.0	604.8	621.8	640.5	640.5	609.9	613.3	567.4
80°	380.6	384.0	373.8	404.3	458.7	480.8	487.6	474.0	496.1	492.7	474.0
82.5°	219.2	203.9	220.9	229.4	256.5	276.9	310.9	339.8	343.2	333.0	353.4
85°	91.7	81.5	93.4	107.0	135.9	168.2	207.3	222.6	219.2	212.4	195.4
87.5°	37.4	37.4	44.2	52.7	69.7	88.3	100.2	117.2	127.4	130.8	122.3
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):**

	165°	170°	175°	180°
0°	2942.6	2942.6	2942.6	2942.6
2.5°	3017.3	3015.6	3013.9	3010.5
5°	3070.0	3071.7	3071.7	3070.0
7.5°	3109.1	3117.5	3119.2	3119.2
10°	3139.6	3146.4	3148.1	3146.4
12.5°	3129.4	3131.1	3137.9	3139.6
15°	3081.9	3070.0	3066.6	3064.9
17.5°	2969.7	2939.2	2913.7	2901.8
20°	2793.0	2733.6	2684.3	2672.4
22.5°	2596.0	2504.2	2439.7	2417.6
25°	2358.1	2244.3	2174.6	2152.6
27.5°	2125.4	2013.2	1964.0	1936.8
30°	1933.4	1850.1	1795.8	1768.6
32.5°	1806.0	1724.4	1668.4	1642.9
35°	1700.6	1615.7	1540.9	1507.0
37.5°	1631.0	1530.7	1444.1	1410.1
40°	1590.2	1500.2	1406.7	1369.3
42.5°	1569.8	1493.4	1410.1	1369.3
45°	1537.5	1456.0	1384.6	1340.5
47.5°	1488.3	1411.8	1340.5	1299.7
50°	1398.2	1320.1	1262.3	1230.0
52.5°	1303.1	1216.4	1155.3	1119.6
55°	1238.5	1151.9	1104.3	1080.5
57.5°	1226.6	1145.1	1097.5	1070.3
60°	1157.0	1078.8	1017.7	988.8
62.5°	1007.5	931.0	883.4	864.8
65°	914.0	841.0	795.1	781.5
67.5°	852.9	776.4	728.8	718.6
68°	837.6	761.1	720.3	706.8
70°	767.9	694.9	659.2	645.6
72.5°	620.1	548.8	501.2	484.2
75°	540.3	462.1	423.0	414.5
77.5°	474.0	382.3	343.2	334.7
80°	384.0	302.4	207.3	193.7
82.5°	287.1	185.2	154.6	141.0
85°	166.5	127.4	100.2	93.4
87.5°	105.3	88.3	76.5	71.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)