

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: McGRAW-EDISON

Report Number: P159713

Luminaire Tested: **VTS-F10-LED-E1-T4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159713  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F10-LED-E1-T4-8030  
Description: VENTUS LED SITE LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (70) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

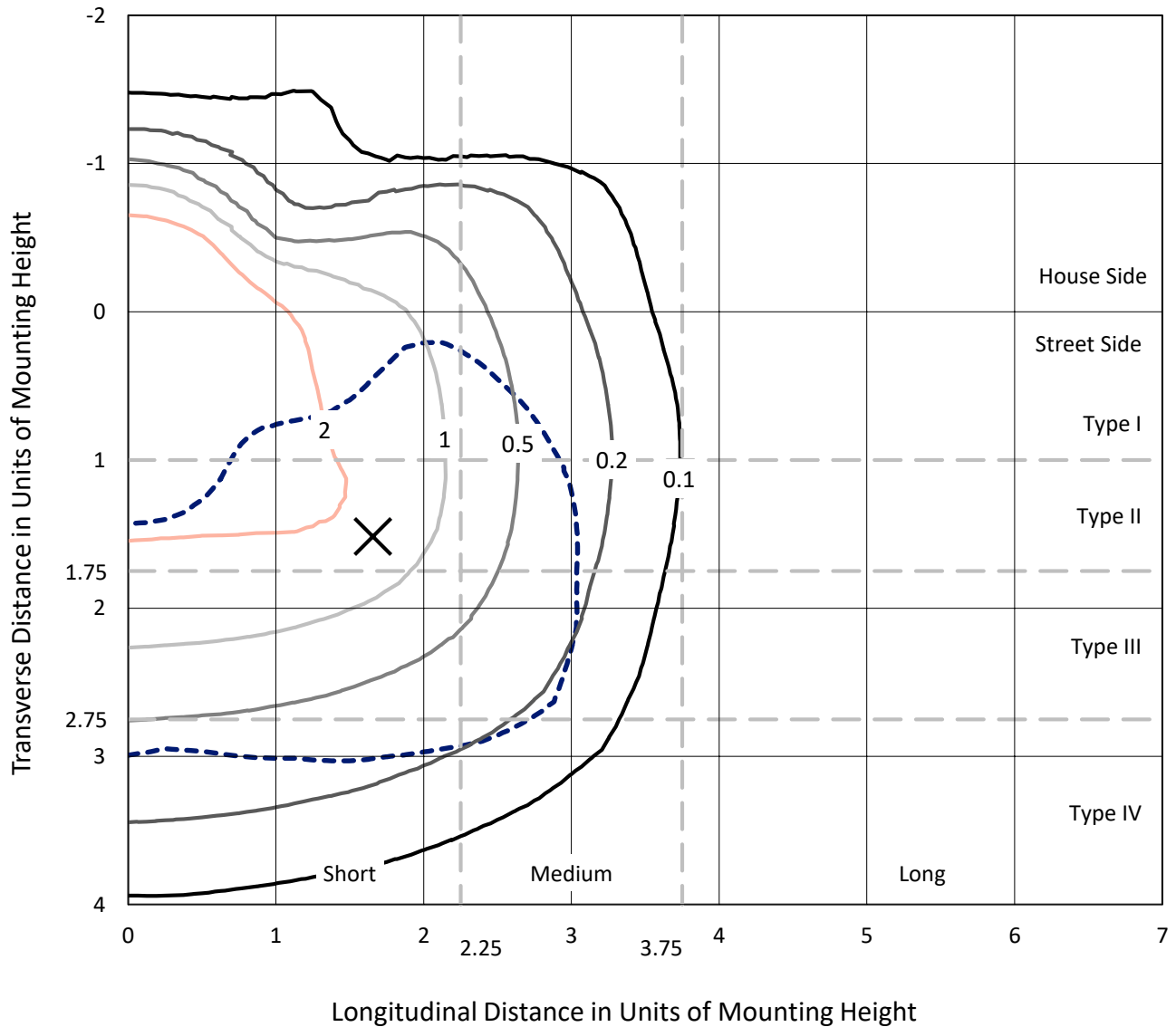
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20737.3 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 258.7  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

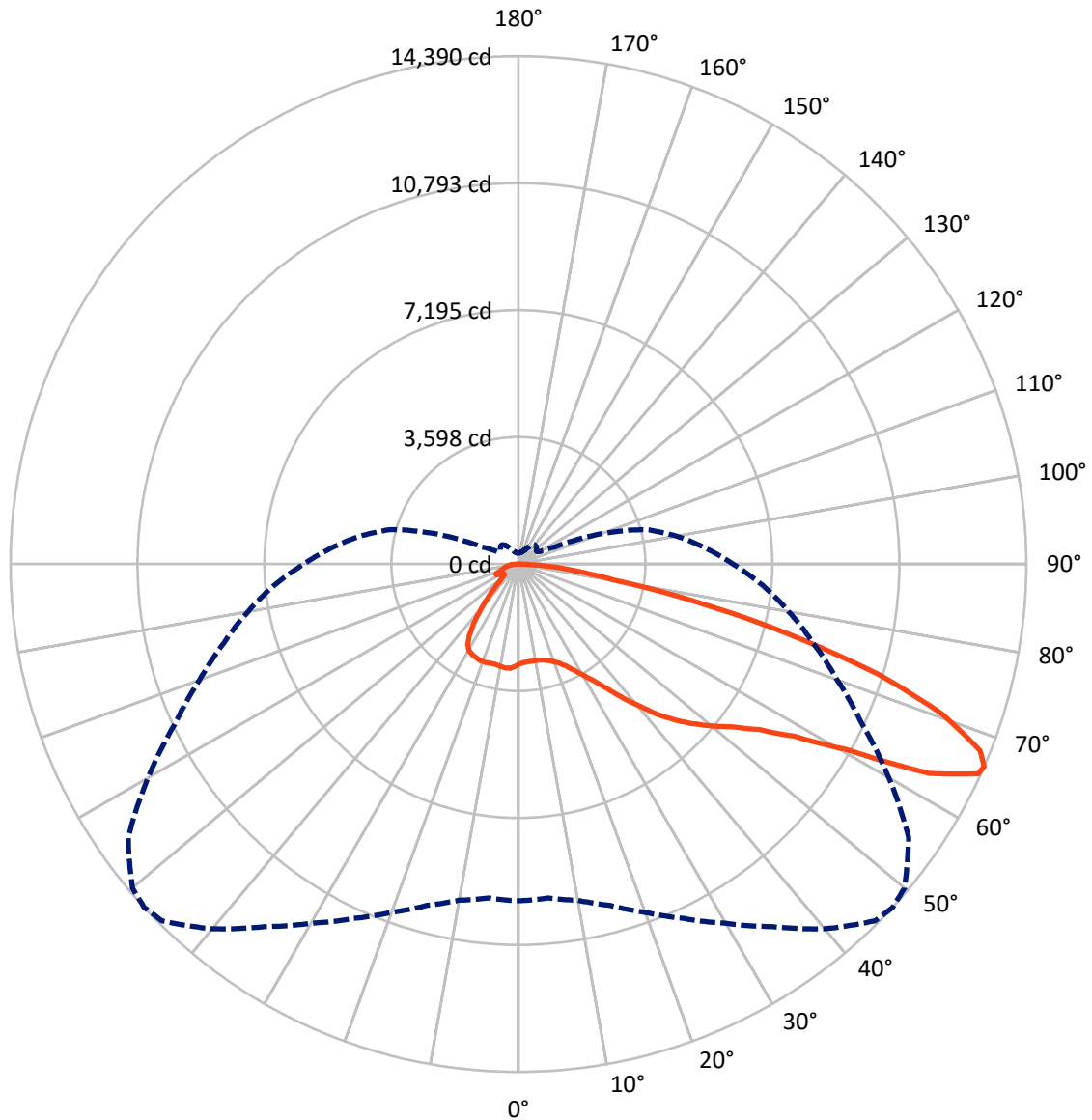


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4293.5	0.0	4293.5
	% Fixture	20.7	0.0	20.7
<b>Street Side</b>	Lumens	16443.8	0.0	16443.8
	% Fixture	79.3	0.0	79.3
<b>Total</b>	Lumens	20737.3	0.0	20737.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.5	1.3
10°-20°	820.0	4.0
20°-30°	1399.1	6.7
30°-40°	2111.8	10.2
40°-50°	2744.8	13.2
50°-60°	3765.7	18.2
60°-70°	5792.8	27.9
70°-80°	3348.6	16.1
80°-90°	481.0	2.3
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°	20737.3	100.0
0°-180°	20737.3	100.0



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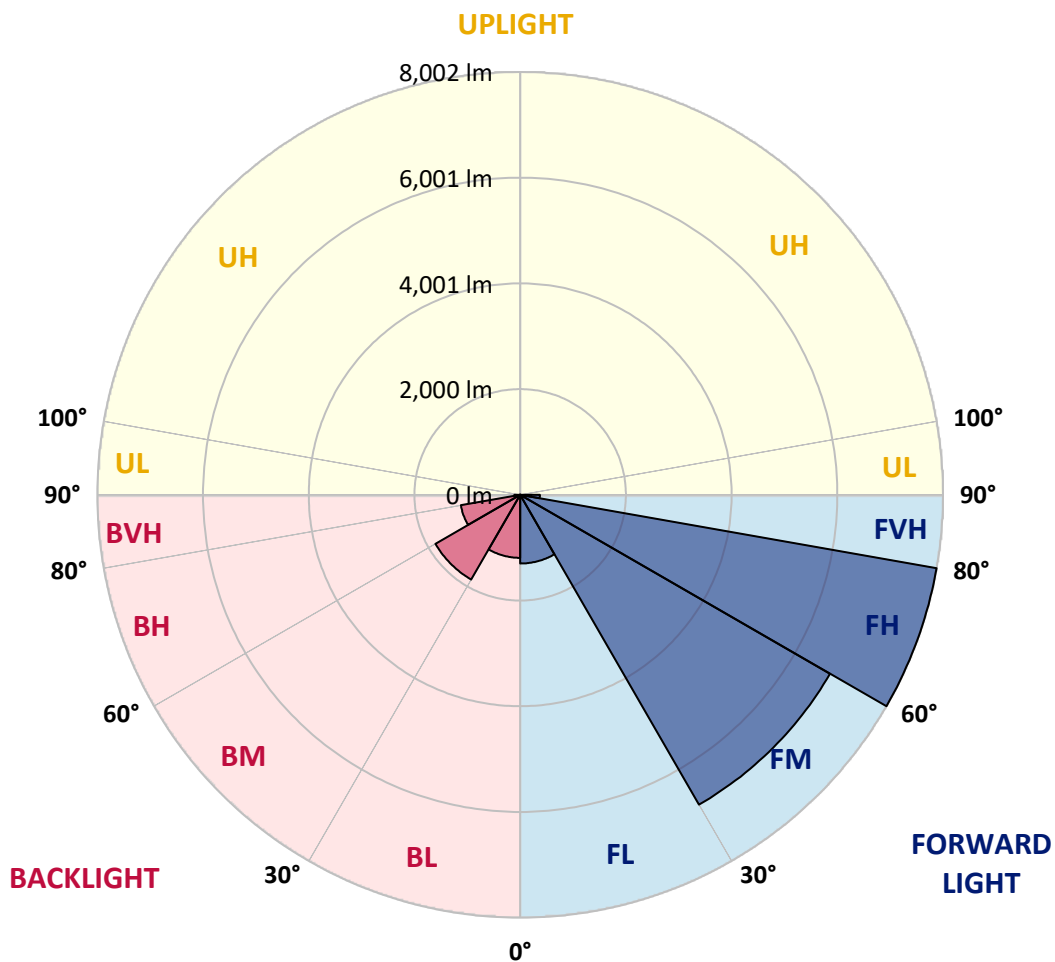
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1299.8	6.3			
FM	(30°-60°)	6769.8	32.6			
FH	(60°-80°)	8001.8	38.6			G4/12000
FVH	(80°-90°)	372.3	1.8			G3/500
BL	(0°-30°)	1192.8	5.8	B3/2500		
BM	(30°-60°)	1852.4	8.9	B2/2500		
BH	(60°-80°)	1139.5	5.5	B3/2500		G3/2500
BVH	(80°-90°)	108.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1
2.5°	2764.6	2766.0	2767.4	2767.4	2771.6	2771.6	2778.6	2782.8	2784.2	2792.5	2798.1
5°	2713.1	2711.7	2713.1	2715.9	2722.8	2728.4	2742.4	2752.1	2760.5	2774.4	2781.4
7.5°	2690.8	2693.6	2696.4	2697.8	2703.3	2717.3	2729.8	2739.6	2756.3	2773.0	2780.0
10°	2720.1	2724.2	2720.1	2722.8	2722.8	2735.4	2741.0	2747.9	2760.5	2775.8	2780.0
12.5°	2788.3	2796.7	2788.3	2781.4	2775.8	2786.9	2784.2	2778.6	2785.5	2789.7	2789.7
15°	2901.2	2901.2	2895.6	2885.9	2871.9	2873.3	2860.8	2848.3	2842.7	2832.9	2826.0
17.5°	3011.3	3008.5	2996.0	2983.4	2973.7	2969.5	2951.4	2934.7	2915.1	2899.8	2883.1
20°	3118.6	3129.7	3114.4	3096.3	3081.0	3071.2	3057.3	3023.8	3000.1	2975.1	2958.3
22.5°	3303.9	3294.2	3277.4	3251.0	3235.6	3218.9	3189.7	3153.4	3117.2	3086.5	3065.6
25°	3494.8	3485.1	3461.4	3441.9	3419.6	3405.6	3373.6	3329.0	3294.2	3246.8	3218.9
27.5°	3699.7	3691.3	3663.4	3648.1	3632.8	3616.1	3588.2	3542.2	3510.2	3455.8	3426.5
30°	3931.0	3929.6	3892.0	3889.2	3866.9	3848.8	3829.3	3790.2	3758.2	3703.8	3669.0
32.5°	4177.6	4172.1	4145.6	4137.2	4152.5	4140.0	4112.1	4071.7	4029.9	3997.9	3958.9
35°	4528.8	4519.0	4503.7	4510.7	4520.4	4555.3	4512.1	4477.2	4427.1	4385.3	4330.9
37.5°	4785.2	4771.2	4789.4	4828.4	4884.1	4910.6	4948.2	4949.6	4925.9	4870.2	4822.8
40°	5020.7	5015.1	5056.9	5111.3	5214.4	5289.6	5360.7	5395.5	5403.9	5367.7	5296.6
42.5°	5219.9	5236.7	5292.4	5376.0	5520.9	5635.2	5767.6	5849.8	5901.4	5881.8	5849.8
45°	5456.8	5465.2	5533.5	5639.4	5777.3	5966.8	6141.0	6280.4	6370.9	6369.6	6333.3
47.5°	5753.6	5755.0	5813.6	5937.6	6085.3	6277.6	6497.8	6683.1	6802.9	6808.5	6780.6
50°	6106.2	6103.4	6167.5	6284.6	6442.0	6627.3	6861.5	7092.8	7260.0	7260.0	7219.6
52.5°	6560.5	6554.9	6589.7	6692.8	6844.7	7039.8	7272.5	7540.1	7721.2	7760.2	7672.5
55°	7166.6	7175.0	7183.3	7273.9	7403.5	7558.2	7825.7	8072.4	8314.8	8337.1	8285.6
57.5°	7867.5	7839.7	7899.6	8047.3	8195.0	8388.7	8578.2	8869.4	9156.5	9205.3	9198.3
60°	8962.8	8926.6	8987.9	9176.0	9339.0	9644.2	9968.9	10345.1	10685.1	10785.5	10664.2
62.5°	9970.3	10014.9	10098.5	10317.3	10554.2	10961.0	11448.8	12093.9	12739.1	13090.3	13065.2
65°	9879.7	9837.9	9998.2	10296.4	10725.5	11243.9	11850.1	12627.6	13557.1	14262.2	14324.9
66°	9543.9	9500.7	9673.5	10014.9	10505.4	11082.3	11755.3	12546.8	13497.2	14294.2	14390.4
67.5°	8989.3	8946.1	9141.2	9451.9	9957.7	10683.7	11411.1	12276.5	13264.5	14028.1	14106.1
70°	7919.1	7860.6	8012.5	8363.6	8773.3	9475.6	10168.2	11085.1	12099.5	12709.8	12739.1
72.5°	6708.2	6571.6	6733.3	7003.6	7296.2	7877.3	8480.7	9107.7	9915.9	10480.3	10641.9
75°	4867.4	4938.5	4985.8	5164.2	5357.9	5838.6	6192.6	6717.9	7343.6	7751.9	7881.5
77.5°	2582.1	2689.4	2756.3	2934.7	3255.1	3621.6	4004.8	4329.5	4740.6	4969.1	5128.0
80°	1449.2	1524.5	1633.1	1773.9	1930.0	2211.4	2438.6	2605.8	2664.3	2704.7	2741.0
82.5°	797.1	988.0	1149.6	1247.2	1339.1	1452.0	1587.2	1726.5	1771.1	1704.2	1669.4
85°	124.0	182.5	556.0	678.6	738.5	824.9	922.5	1025.6	1027.0	883.5	964.3
87.5°	34.8	39.0	79.4	119.8	117.1	94.8	117.1	213.2	125.4	62.7	72.5
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1
2.5°	2800.9	2803.7	2810.6	2817.6	2824.6	2831.5	2835.7	2842.7	2848.3	2856.6	2866.4
5°	2789.7	2796.7	2809.2	2824.6	2838.5	2851.0	2860.8	2874.7	2887.3	2898.4	2915.1
7.5°	2789.7	2803.7	2824.6	2841.3	2853.8	2869.2	2884.5	2898.4	2912.4	2923.5	2934.7
10°	2791.1	2805.1	2826.0	2845.5	2859.4	2876.1	2888.7	2901.2	2916.5	2923.5	2937.4
12.5°	2796.7	2802.3	2817.6	2837.1	2853.8	2870.6	2883.1	2895.6	2912.4	2915.1	2924.9
15°	2824.6	2816.2	2820.4	2834.3	2852.4	2866.4	2880.3	2890.1	2901.2	2898.4	2906.8
17.5°	2876.1	2855.2	2846.9	2848.3	2856.6	2866.4	2871.9	2873.3	2874.7	2862.2	2863.6
20°	2945.8	2916.5	2897.0	2887.3	2876.1	2866.4	2851.0	2832.9	2816.2	2791.1	2788.3
22.5°	3050.3	3007.1	2986.2	2959.7	2926.3	2884.5	2846.9	2802.3	2766.0	2728.4	2714.5
25°	3202.2	3157.6	3135.3	3093.5	3033.6	2973.7	2919.3	2859.4	2806.5	2761.9	2741.0
27.5°	3405.6	3361.1	3337.4	3294.2	3220.3	3160.4	3085.1	3021.0	2956.9	2891.5	2865.0
30°	3652.3	3613.3	3586.8	3552.0	3487.9	3422.4	3334.6	3235.6	3133.9	3029.4	2977.8
32.5°	3943.5	3900.3	3880.8	3840.4	3773.5	3705.2	3607.7	3480.9	3310.9	3146.5	3043.3
35°	4307.2	4258.4	4236.2	4183.2	4105.2	4004.8	3900.3	3730.3	3500.4	3271.9	3103.3
37.5°	4793.5	4684.8	4611.0	4489.8	4364.4	4223.6	4074.5	3900.3	3628.6	3345.7	3111.6
40°	5224.1	5114.0	4971.9	4797.7	4602.6	4408.9	4238.9	4041.1	3745.7	3398.7	3085.1
42.5°	5759.2	5564.1	5337.0	5101.5	4842.3	4604.0	4402.0	4169.3	3825.1	3412.6	3011.3
45°	6248.3	6015.6	5711.8	5398.3	5076.4	4776.8	4549.7	4290.5	3893.4	3412.6	2922.1
47.5°	6694.2	6415.5	6051.8	5661.7	5286.8	4959.4	4701.6	4414.5	3989.5	3455.8	2895.6
50°	7106.7	6786.2	6372.3	5919.5	5498.6	5148.9	4871.6	4573.4	4135.8	3567.3	2959.7
52.5°	7541.5	7201.5	6697.0	6216.3	5752.2	5377.4	5082.0	4769.9	4325.3	3742.9	3072.6
55°	8111.4	7712.9	7140.1	6610.6	6100.6	5686.8	5350.9	5005.3	4533.0	3940.7	3210.6
57.5°	9010.2	8431.9	7859.2	7170.8	6690.1	6145.2	5777.3	5380.2	4870.2	4198.5	3418.2
60°	10583.4	9872.7	9184.4	8392.9	7799.3	7229.3	6673.3	6155.0	5540.4	4781.0	3873.8
62.5°	12829.7	12107.9	11026.5	10058.1	9162.1	8406.8	7682.2	7023.1	6234.4	5403.9	4435.4
65°	14171.6	13345.3	12056.3	10754.8	9666.5	8730.1	7901.0	7094.2	6242.8	5433.1	4605.4
66°	14278.9	13497.2	12120.4	10745.1	9615.0	8643.7	7781.1	6946.5	6074.1	5299.4	4549.7
67.5°	14079.6	13406.6	11989.4	10555.5	9400.4	8351.1	7464.8	6589.7	5713.2	4995.6	4364.4
70°	12673.6	12187.3	10972.2	9628.9	8476.5	7551.2	6616.2	5774.5	4944.0	4340.7	3872.5
72.5°	10389.7	9773.8	8923.8	8020.8	7113.7	6292.9	5442.9	4726.7	4029.9	3591.0	3259.3
75°	7632.0	7077.4	6141.0	5578.1	4978.9	4463.3	3890.6	3212.0	2717.3	2497.1	2416.3
77.5°	4838.1	4236.2	3446.1	2824.6	2428.8	2087.4	1645.7	1308.5	1047.9	1091.1	1208.1
80°	2444.1	2105.5	1576.0	1244.4	1075.8	894.6	707.9	536.5	391.6	447.3	505.8
82.5°	1569.0	1309.9	1043.7	822.1	693.9	611.7	489.1	355.3	264.8	298.2	365.1
85°	944.8	798.5	636.8	521.2	452.9	377.6	277.3	196.5	195.1	209.0	257.8
87.5°	143.5	204.8	118.4	126.8	133.8	143.5	126.8	107.3	93.4	121.2	153.3
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1	2837.1
2.5°	2876.1	2878.9	2884.5	2891.5	2890.1	2899.8	2905.4	2899.8	2912.4	2912.4	2919.3
5°	2929.1	2933.3	2943.0	2950.0	2952.8	2961.1	2963.9	2962.5	2965.3	2966.7	2969.5
7.5°	2944.4	2955.6	2959.7	2963.9	2965.3	2968.1	2968.1	2965.3	2965.3	2963.9	2966.7
10°	2940.2	2944.4	2947.2	2945.8	2945.8	2943.0	2941.6	2940.2	2940.2	2937.4	2941.6
12.5°	2926.3	2926.3	2926.3	2923.5	2923.5	2922.1	2922.1	2922.1	2924.9	2926.3	2933.3
15°	2898.4	2898.4	2901.2	2899.8	2904.0	2911.0	2919.3	2924.9	2931.9	2933.3	2937.4
17.5°	2855.2	2856.6	2865.0	2883.1	2901.2	2922.1	2937.4	2941.6	2936.0	2922.1	2912.4
20°	2780.0	2798.1	2831.5	2874.7	2915.1	2941.6	2948.6	2931.9	2905.4	2869.2	2849.6
22.5°	2713.1	2749.3	2809.2	2880.3	2930.5	2948.6	2927.7	2888.7	2841.3	2799.5	2770.2
25°	2739.6	2781.4	2844.1	2905.4	2937.4	2927.7	2885.9	2830.1	2780.0	2731.2	2683.8
27.5°	2851.0	2892.8	2937.4	2955.6	2944.4	2908.2	2849.6	2789.7	2722.8	2653.2	2594.6
30°	2956.9	2980.6	2983.4	2965.3	2924.9	2866.4	2798.1	2728.4	2643.4	2559.8	2486.0
32.5°	2990.4	2962.5	2912.4	2860.8	2805.1	2745.1	2665.7	2573.7	2483.2	2388.4	2306.2
35°	2980.6	2867.8	2743.7	2633.7	2566.8	2498.5	2426.0	2303.4	2201.7	2120.9	2067.9
37.5°	2892.8	2686.6	2495.7	2335.5	2230.9	2150.1	2042.8	1941.1	1853.3	1817.1	1773.9
40°	2770.2	2455.3	2190.5	1966.2	1857.5	1754.4	1634.5	1556.5	1531.4	1498.0	1499.4
42.5°	2594.6	2185.0	1843.6	1585.8	1467.3	1354.5	1269.5	1223.5	1224.9	1197.0	1202.6
45°	2409.3	1913.2	1484.0	1227.6	1110.6	1014.4	967.1	953.1	954.5	955.9	947.6
47.5°	2296.4	1701.4	1190.0	930.8	827.7	773.4	748.3	741.3	742.7	744.1	734.4
50°	2279.7	1591.3	993.5	712.1	645.2	614.5	602.0	595.0	595.0	589.4	581.1
52.5°	2327.1	1563.5	897.4	617.3	553.2	525.3	515.6	510.0	501.6	490.5	475.2
55°	2402.3	1588.6	868.1	585.3	522.6	494.7	482.1	479.4	465.4	444.5	419.4
57.5°	2541.7	1679.1	887.6	593.6	528.1	503.0	494.7	491.9	472.4	440.3	408.3
60°	2941.6	1942.5	985.2	641.0	568.5	547.6	547.6	543.5	517.0	471.0	425.0
62.5°	3493.4	2328.5	1117.6	706.5	624.3	621.5	645.2	646.6	599.2	525.3	452.9
65°	3759.6	2509.6	1163.5	720.4	639.6	671.7	719.0	719.0	652.1	550.4	457.1
66°	3761.0	2505.5	1149.6	703.7	622.9	664.7	713.5	713.5	643.8	543.5	450.1
67.5°	3664.8	2427.4	1103.6	673.0	585.3	624.3	667.5	666.1	603.4	515.6	430.6
70°	3287.2	2147.3	972.6	622.9	540.7	542.1	557.4	547.6	505.8	445.9	391.6
72.5°	2834.3	1796.2	843.1	590.8	505.8	479.4	466.8	458.5	432.0	395.7	362.3
75°	2173.8	1394.9	734.4	561.6	475.2	429.2	412.5	405.5	387.4	366.5	340.0
77.5°	1332.2	955.9	622.9	514.2	440.3	398.5	380.4	366.5	348.4	328.9	310.7
80°	574.1	576.9	498.9	436.2	383.2	334.4	310.7	294.0	284.3	277.3	267.5
82.5°	401.3	413.9	380.4	338.6	292.6	257.8	236.9	232.7	234.1	234.1	231.3
85°	301.0	295.4	266.2	242.5	221.6	199.3	182.5	181.2	186.7	186.7	182.5
87.5°	174.2	175.6	150.5	140.7	146.3	125.4	114.3	115.7	129.6	128.2	125.4
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):**

	160°	165°	170°	175°	180°
0°	2837.1	2837.1	2837.1	2837.1	2837.1
2.5°	2919.3	2923.5	2922.1	2926.3	2922.1
5°	2973.7	2972.3	2970.9	2976.5	2969.5
7.5°	2965.3	2966.7	2966.7	2966.7	2965.3
10°	2944.4	2950.0	2952.8	2958.3	2956.9
12.5°	2937.4	2945.8	2954.2	2962.5	2963.9
15°	2938.8	2944.4	2948.6	2952.8	2954.2
17.5°	2902.6	2901.2	2897.0	2894.2	2891.5
20°	2828.7	2821.8	2814.8	2803.7	2809.2
22.5°	2736.8	2717.3	2695.0	2676.9	2675.5
25°	2629.5	2593.2	2557.0	2533.3	2525.0
27.5°	2534.7	2491.5	2453.9	2433.0	2427.4
30°	2421.9	2382.8	2349.4	2331.3	2320.1
32.5°	2254.6	2224.0	2182.2	2168.2	2166.8
35°	2021.9	1998.2	1969.0	1963.4	1956.4
37.5°	1758.6	1750.2	1736.3	1719.5	1716.8
40°	1477.1	1482.7	1478.5	1468.7	1453.4
42.5°	1205.4	1215.1	1216.5	1223.5	1230.4
45°	960.1	968.5	968.5	975.4	983.8
47.5°	737.1	731.6	735.8	742.7	746.9
50°	557.4	553.2	546.2	540.7	535.1
52.5°	448.7	440.3	420.8	415.3	409.7
55°	395.7	380.4	366.5	360.9	360.9
57.5°	380.4	360.9	345.6	338.6	335.8
60°	383.2	355.3	335.8	324.7	320.5
62.5°	395.7	356.7	330.3	317.7	313.5
65°	394.4	353.9	328.9	314.9	310.7
66°	387.4	349.8	326.1	313.5	310.7
67.5°	376.2	344.2	323.3	312.1	308.0
70°	353.9	333.0	317.7	308.0	303.8
72.5°	335.8	321.9	308.0	296.8	294.0
75°	319.1	305.2	292.6	287.1	282.9
77.5°	294.0	281.5	274.5	268.9	266.2
80°	260.6	252.2	243.9	238.3	234.1
82.5°	227.1	216.0	207.6	203.4	200.7
85°	185.3	178.4	165.8	157.5	156.1
87.5°	124.0	117.1	112.9	105.9	98.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)