

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: P159581

Luminaire Tested: **VST-E08-LED-E-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159581
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-T3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (168) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25105.6 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

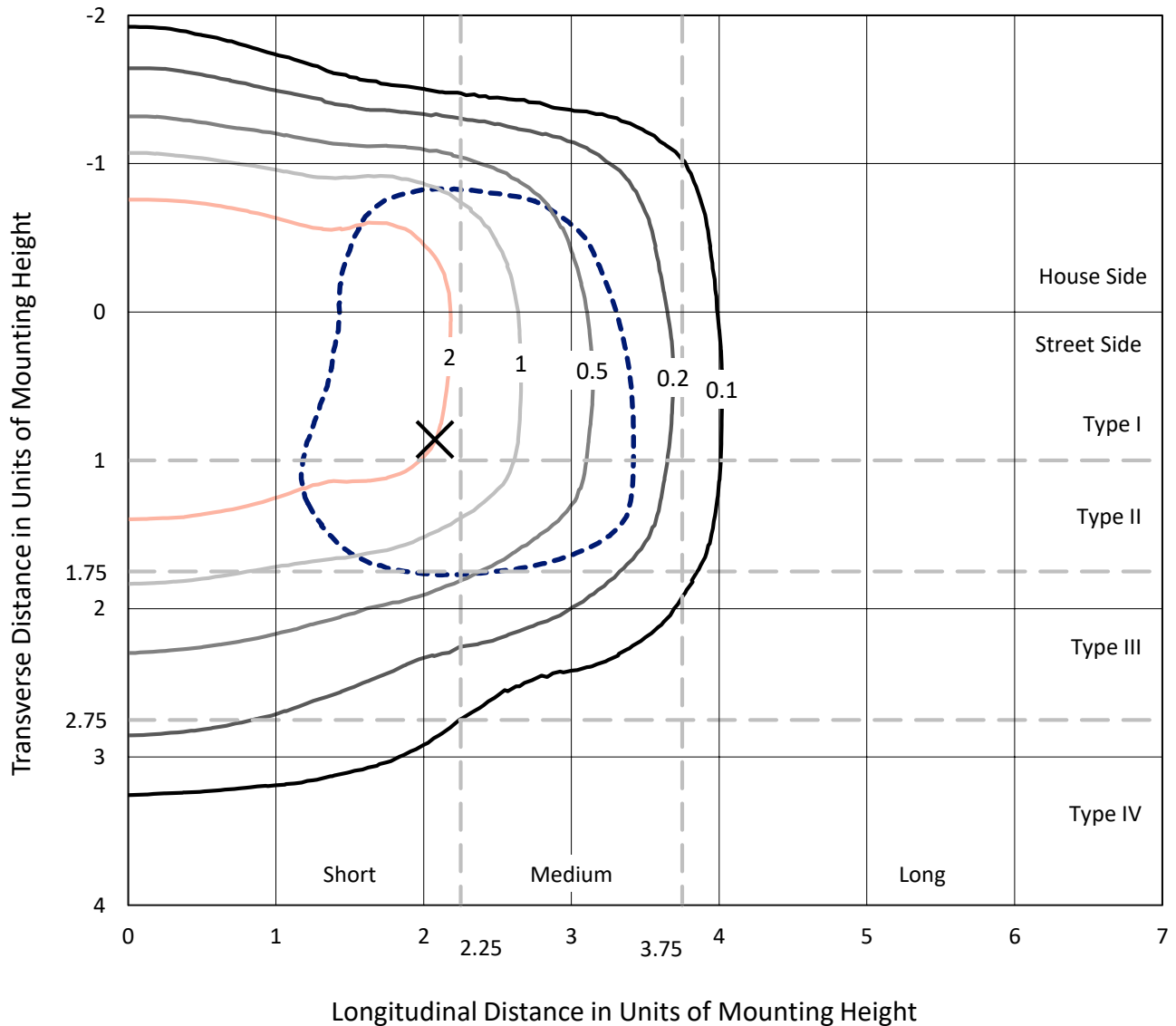
Input Watts (W): 194.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

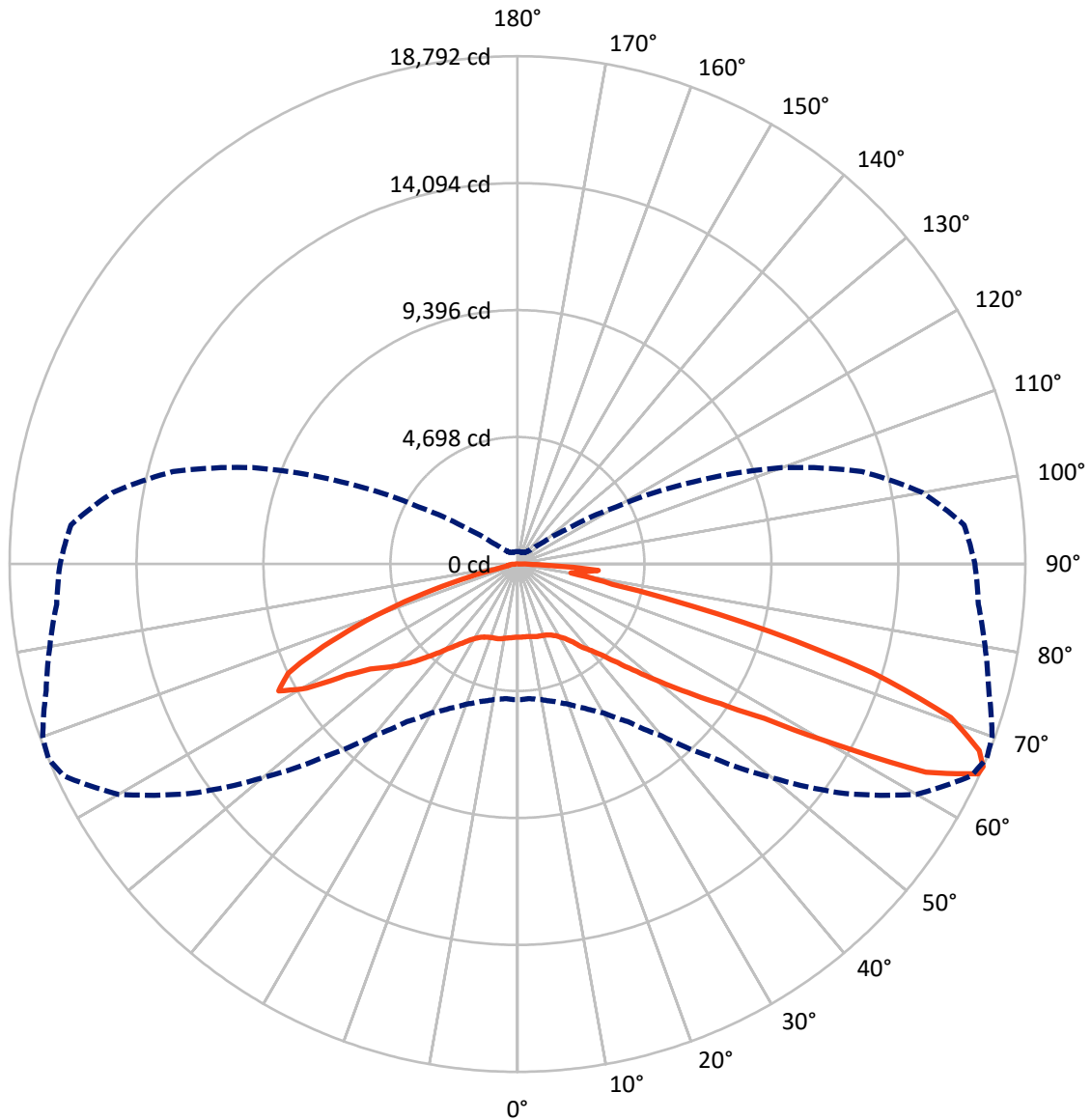


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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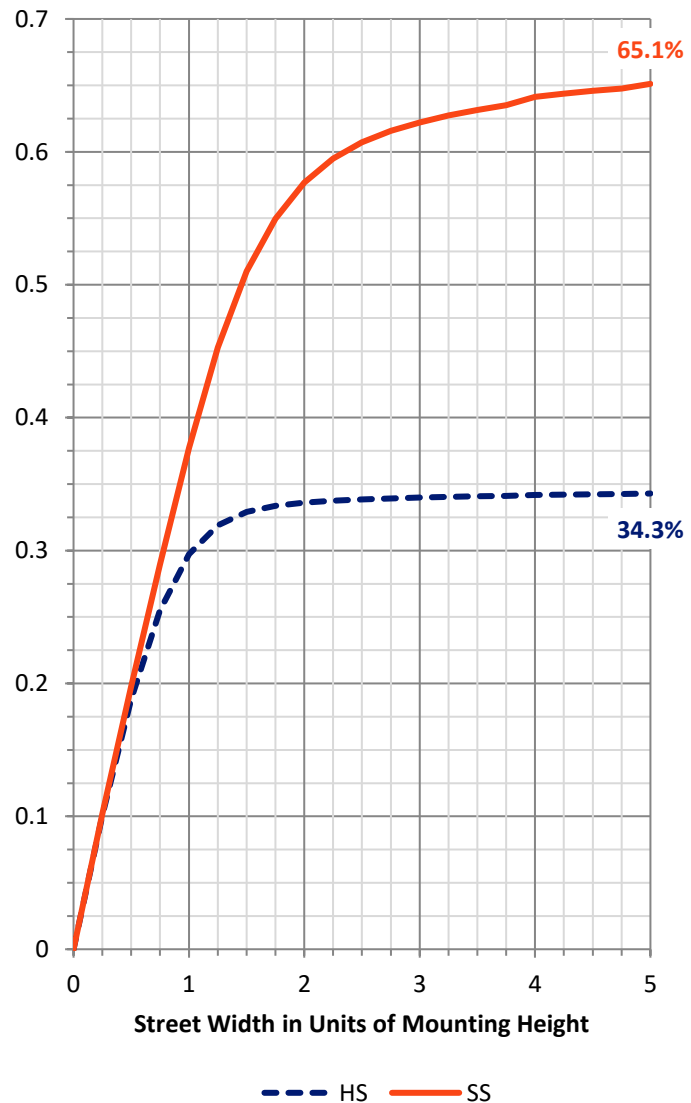
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8687.7	0.0	8687.7
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	16418.0	0.0	16418.0
	% Fixture	65.4	0.0	65.4
Total	Lumens	25105.6	0.0	25105.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.0	1.0
10°-20°	769.7	3.1
20°-30°	1323.2	5.3
30°-40°	2138.5	8.5
40°-50°	3544.0	14.1
50°-60°	5562.0	22.2
60°-70°	7604.4	30.3
70°-80°	3344.1	13.3
80°-90°	559.7	2.2
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°	25105.6	100.0
0°-180°	25105.6	100.0

Coefficient of Utilization



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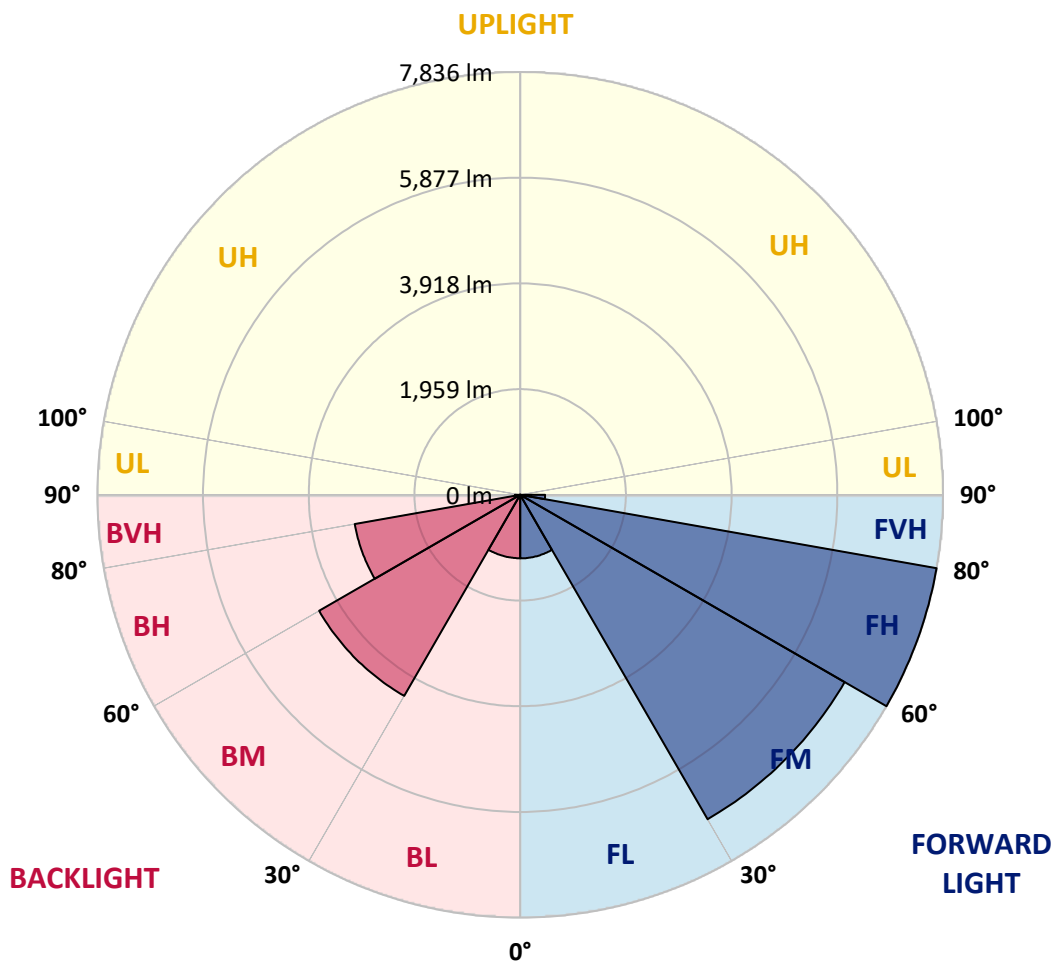
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1177.7	4.7			
FM (30°-60°)	6942.5	27.7			
FH (60°-80°)	7836.0	31.2			G4/12000
FVH (80°-90°)	461.8	1.8			G3/500
BL (0°-30°)	1175.2	4.7	B3/2500		
BM (30°-60°)	4302.1	17.1	B3/5000		
BH (60°-80°)	3112.4	12.4	B4/5000		G4/5000
BVH (80°-90°)	97.9	0.4			G1/100
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°	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2704.0	2704.0	2705.6	2704.0	2704.0	2702.4	2708.9	2708.9	2708.9	2707.3	2712.2
5°	2697.4	2697.4	2699.1	2699.1	2700.7	2699.1	2704.0	2705.6	2705.6	2705.6	2710.6
7.5°	2681.0	2685.9	2682.7	2684.3	2685.9	2690.9	2697.4	2700.7	2704.0	2708.9	2710.6
10°	2646.5	2654.7	2653.1	2658.0	2659.7	2674.4	2679.4	2685.9	2697.4	2704.0	2708.9
12.5°	2598.9	2603.8	2605.5	2612.1	2618.6	2636.7	2649.8	2661.3	2677.7	2694.1	2710.6
15°	2561.2	2564.4	2564.4	2571.0	2580.9	2597.3	2613.7	2633.4	2658.0	2685.9	2712.2
17.5°	2572.7	2580.9	2574.3	2572.7	2575.9	2585.8	2600.6	2617.0	2646.5	2677.7	2708.9
20°	2648.2	2649.8	2646.5	2638.3	2631.8	2633.4	2633.4	2636.7	2654.7	2679.4	2704.0
22.5°	2710.6	2717.1	2715.5	2717.1	2715.5	2722.1	2718.8	2712.2	2705.6	2707.3	2718.8
25°	2764.7	2771.3	2771.3	2776.2	2784.4	2797.6	2807.4	2805.8	2795.9	2782.8	2777.9
27.5°	2853.4	2853.4	2853.4	2858.3	2869.8	2886.2	2902.6	2912.5	2920.7	2907.6	2879.7
30°	2992.9	2994.6	2989.7	2991.3	2999.5	3020.9	3040.6	3055.3	3071.7	3070.1	3034.0
32.5°	3145.6	3152.2	3150.6	3157.1	3168.6	3188.3	3209.7	3232.6	3254.0	3267.1	3244.1
35°	3342.6	3349.2	3350.8	3360.7	3373.8	3403.4	3432.9	3462.5	3485.5	3495.3	3490.4
37.5°	3666.1	3667.7	3661.1	3646.4	3651.3	3674.3	3708.8	3756.4	3771.1	3781.0	3804.0
40°	4150.4	4145.5	4119.2	4106.1	4097.9	4107.7	4101.1	4138.9	4173.4	4175.0	4173.4
42.5°	4738.1	4723.4	4698.7	4695.5	4692.2	4688.9	4670.8	4672.5	4703.7	4711.9	4702.0
45°	5322.6	5304.6	5286.5	5302.9	5283.2	5334.1	5348.9	5388.3	5393.2	5409.6	5385.0
47.5°	5802.0	5803.7	5803.7	5826.6	5866.0	5962.9	6049.9	6125.4	6153.3	6192.8	6197.7
50°	6164.8	6174.7	6205.9	6279.8	6363.5	6526.0	6672.1	6808.4	6931.5	6977.5	7099.0
52.5°	6376.6	6402.9	6468.6	6591.7	6741.1	6951.2	7181.1	7412.6	7626.0	7806.6	7951.1
55°	6338.9	6358.6	6473.5	6665.6	6898.7	7181.1	7502.9	7837.8	8171.1	8476.5	8712.9
57.5°	6095.9	6109.0	6223.9	6440.7	6731.3	7110.5	7565.3	8062.7	8530.6	9023.2	9427.0
60°	5777.4	5797.1	5903.8	6074.5	6378.3	6782.1	7309.2	7983.9	8730.9	9505.8	10261.1
62.5°	5573.8	5568.9	5662.5	5815.1	6043.4	6409.5	6916.8	7716.3	8750.6	10060.8	11553.1
65°	5235.6	5220.8	5317.7	5491.7	5739.6	6094.2	6575.3	7343.6	8543.8	10270.9	12387.1
66°	5025.5	4995.9	5092.8	5268.4	5516.3	5893.9	6355.3	7113.8	8292.6	10065.7	12298.5
67.5°	4657.7	4642.9	4688.9	4826.8	5010.7	5365.3	5846.3	6609.8	7698.3	9448.4	11648.3
70°	3785.9	3753.1	3789.2	3851.6	3922.2	4009.2	4304.7	4910.5	5831.6	7527.5	9384.3
72.5°	2579.2	2562.8	2630.1	2725.3	2914.1	3002.8	3119.4	3217.9	3542.9	4744.7	6545.7
75°	1961.9	1971.8	2057.1	2214.7	2457.7	2720.4	2976.5	3070.1	2961.8	2868.2	3715.3
77.5°	1100.0	1157.4	1260.9	1461.2	1718.9	2090.0	2536.5	3029.1	3275.3	3214.6	3006.1
80°	453.1	444.9	495.8	605.8	694.5	998.2	1526.8	2144.1	2837.0	3275.3	3206.4
82.5°	126.4	129.7	167.5	215.1	277.5	353.0	551.6	886.6	1444.8	2247.6	2942.0
85°	39.4	39.4	54.2	80.4	95.2	110.0	139.6	229.8	392.4	783.1	1587.6
87.5°	8.2	8.2	11.5	23.0	24.6	24.6	31.2	42.7	37.8	34.5	154.3
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2707.3	2704.0	2705.6	2707.3	2705.6	2705.6	2704.0	2702.4	2704.0	2704.0	2708.9
5°	2705.6	2704.0	2705.6	2705.6	2705.6	2707.3	2707.3	2707.3	2712.2	2712.2	2720.4
7.5°	2708.9	2708.9	2712.2	2712.2	2712.2	2712.2	2713.8	2717.1	2725.3	2723.7	2738.5
10°	2715.5	2718.8	2727.0	2728.6	2728.6	2733.5	2736.8	2743.4	2751.6	2754.9	2768.0
12.5°	2723.7	2740.1	2754.9	2758.2	2763.1	2771.3	2776.2	2779.5	2794.3	2799.2	2815.6
15°	2733.5	2756.5	2774.6	2781.2	2787.7	2797.6	2804.1	2809.1	2822.2	2828.8	2848.5
17.5°	2735.2	2761.5	2782.8	2792.6	2800.9	2812.3	2822.2	2832.1	2846.8	2856.7	2876.4
20°	2733.5	2768.0	2800.9	2814.0	2822.2	2843.5	2858.3	2871.5	2889.5	2899.4	2919.1
22.5°	2751.6	2791.0	2835.3	2851.8	2864.9	2894.4	2914.1	2935.5	2958.5	2965.0	2979.8
25°	2794.3	2835.3	2891.2	2914.1	2937.1	2976.5	3004.4	3035.6	3058.6	3061.9	3066.8
27.5°	2866.5	2904.3	2971.6	3006.1	3043.8	3099.7	3140.7	3171.9	3204.7	3204.7	3201.4
30°	3012.6	3020.9	3091.5	3135.8	3191.6	3273.7	3334.4	3368.9	3393.5	3393.5	3365.6
32.5°	3201.4	3191.6	3255.6	3303.2	3380.4	3495.3	3577.4	3603.7	3630.0	3621.7	3574.1
35°	3474.0	3446.1	3482.2	3554.4	3641.4	3799.1	3884.4	3943.5	3959.9	3937.0	3861.4
37.5°	3817.1	3813.8	3831.9	3912.3	4009.2	4212.8	4299.8	4337.6	4324.4	4283.4	4150.4
40°	4179.9	4170.1	4158.6	4212.8	4321.1	4565.8	4720.1	4739.8	4721.7	4661.0	4493.5
42.5°	4664.3	4664.3	4610.1	4624.9	4715.2	4989.3	5171.6	5234.0	5235.6	5146.9	4923.7
45°	5330.8	5324.3	5229.0	5206.0	5275.0	5544.3	5779.0	5813.5	5813.5	5696.9	5452.3
47.5°	6132.0	6123.8	6030.2	5949.8	5962.9	6253.5	6448.9	6501.4	6455.4	6368.4	6077.8
50°	7035.0	7020.2	6925.0	6849.5	6816.6	7110.5	7276.3	7300.9	7233.6	7130.2	6815.0
52.5°	7951.1	7995.4	7939.6	7898.5	7910.0	8100.5	8271.2	8154.7	8120.2	8008.5	7691.7
55°	8905.0	9041.2	9164.4	9128.2	9170.9	9356.4	9389.3	9234.9	9172.6	9092.1	8739.1
57.5°	9865.4	10262.7	10666.6	10779.9	10884.9	11150.9	11113.1	10860.3	10907.9	11027.8	10630.5
60°	11206.7	12354.3	13378.8	13567.6	13894.3	14120.9	14171.7	14122.5	14344.1	14281.7	13930.4
62.5°	13267.1	15179.8	16604.8	16959.5	17287.8	17276.3	17103.9	16926.6	17145.0	17145.0	16227.2
65°	14738.2	16908.6	18433.8	18727.7	18714.5	18318.9	17911.7	17557.1	17525.9	17282.9	15941.6
66°	14807.1	17041.6	18535.6	18791.7	18693.2	18056.2	17568.6	17118.7	16926.6	16588.4	15214.3
67.5°	14186.5	16665.6	18203.9	18427.2	18167.8	17255.0	16583.5	15981.0	15701.9	15132.2	13838.5
70°	11636.9	14322.8	16560.5	17016.9	16723.1	15567.3	14647.9	13833.5	13300.0	12477.4	11544.9
72.5°	8494.5	10574.6	12997.9	13740.0	13694.0	12630.1	11889.7	11144.3	10443.3	9694.6	9013.3
75°	5521.3	6879.0	8230.2	8663.6	8455.1	7839.4	7309.2	6874.1	6209.2	5688.7	5562.3
77.5°	3152.2	3851.6	3643.1	3588.9	3327.9	2685.9	1786.2	1252.7	1131.2	1411.9	1548.2
80°	2999.5	2718.8	2226.2	2007.9	1845.3	1257.6	660.0	464.6	407.2	417.0	448.2
82.5°	3382.0	3524.9	2882.9	2408.5	2096.5	1530.1	835.7	389.1	284.0	336.6	377.6
85°	2534.9	3569.2	3538.0	2997.9	2459.4	1763.3	988.3	297.2	170.7	236.4	308.7
87.5°	513.9	845.5	814.3	715.8	609.1	425.2	165.8	93.6	85.4	116.6	177.3
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°	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2712.2	2712.2	2715.5	2720.4	2722.1	2722.1	2725.3	2722.1	2728.6	2730.3	2731.9
5°	2727.0	2731.9	2735.2	2743.4	2748.3	2751.6	2756.5	2753.2	2759.8	2761.5	2764.7
7.5°	2743.4	2751.6	2758.2	2761.5	2768.0	2768.0	2769.7	2766.4	2764.7	2759.8	2758.2
10°	2772.9	2777.9	2786.1	2782.8	2779.5	2768.0	2758.2	2743.4	2735.2	2720.4	2712.2
12.5°	2820.6	2823.8	2823.8	2809.1	2787.7	2761.5	2736.8	2712.2	2692.5	2676.1	2666.2
15°	2853.4	2860.0	2851.8	2830.4	2799.2	2763.1	2730.3	2697.4	2671.2	2649.8	2636.7
17.5°	2878.0	2876.4	2861.6	2832.1	2802.5	2771.3	2741.8	2707.3	2674.4	2643.2	2623.5
20°	2915.8	2899.4	2873.1	2841.9	2810.7	2784.4	2761.5	2728.6	2694.1	2651.5	2621.9
22.5°	2966.7	2937.1	2899.4	2866.5	2837.0	2812.3	2786.1	2758.2	2722.1	2674.4	2633.4
25°	3038.9	2988.0	2945.3	2912.5	2886.2	2858.3	2828.8	2792.6	2756.5	2707.3	2658.0
27.5°	3148.9	3073.4	3019.2	2989.7	2965.0	2927.3	2889.5	2846.8	2800.9	2750.0	2694.1
30°	3281.9	3191.6	3129.2	3102.9	3073.4	3030.7	2989.7	2930.6	2866.5	2805.8	2736.8
32.5°	3437.9	3345.9	3283.5	3263.8	3216.2	3167.0	3109.5	3030.7	2947.0	2856.7	2774.6
35°	3674.3	3557.7	3500.3	3454.3	3388.6	3329.5	3232.6	3129.2	3009.4	2889.5	2787.7
37.5°	3917.3	3799.1	3739.9	3675.9	3590.5	3482.2	3352.5	3204.7	3045.5	2897.7	2772.9
40°	4242.3	4114.3	4038.8	3940.2	3802.3	3633.2	3441.1	3239.2	3045.5	2861.6	2710.6
42.5°	4621.6	4503.4	4386.8	4224.3	4002.6	3756.4	3487.1	3227.7	2992.9	2781.2	2621.9
45°	5146.9	4945.0	4759.5	4498.4	4175.0	3828.6	3492.0	3173.5	2902.6	2667.9	2490.6
47.5°	5738.0	5476.9	5148.6	4739.8	4298.2	3856.5	3444.4	3071.7	2759.8	2505.3	2311.6
50°	6419.3	6018.7	5514.7	4931.9	4360.5	3818.8	3331.1	2901.0	2562.8	2270.6	2063.7
52.5°	7199.2	6588.4	5846.3	5068.1	4350.7	3703.8	3144.0	2676.1	2298.5	1988.2	1784.6
55°	8064.4	7209.0	6163.2	5155.2	4262.0	3480.5	2850.1	2359.2	1970.1	1664.8	1485.8
57.5°	9589.6	8297.5	6767.4	5271.7	4076.5	3142.3	2477.4	1958.6	1607.3	1347.9	1177.1
60°	12423.3	10200.3	7911.7	5545.9	3797.4	2718.8	2007.9	1536.7	1242.8	1054.0	927.6
62.5°	14176.7	11540.0	8469.9	5506.5	3344.3	2139.2	1490.7	1139.4	907.9	783.1	704.3
65°	13761.3	11014.6	7788.6	4729.9	2602.2	1517.0	986.7	745.4	623.9	559.8	522.1
66°	13196.5	10426.9	7212.3	4235.8	2267.3	1267.4	814.3	625.5	536.9	489.2	469.5
67.5°	12012.8	9353.2	6220.7	3391.9	1699.2	944.0	600.9	490.9	436.7	412.1	398.9
70°	10054.2	7535.7	4399.9	2003.0	921.0	512.2	384.2	341.5	328.4	320.1	315.2
72.5°	7773.8	5455.6	2571.0	985.1	464.6	331.6	292.2	274.2	269.3	269.3	270.9
75°	4897.4	3135.8	1150.9	474.5	315.2	267.6	249.5	241.3	243.0	244.6	243.0
77.5°	1627.0	1081.9	479.4	336.6	274.2	243.0	228.2	224.9	228.2	229.8	229.8
80°	467.9	408.8	346.4	297.2	251.2	226.6	213.4	211.8	220.0	221.6	218.4
82.5°	359.5	336.6	313.6	287.3	241.3	213.4	208.5	210.1	215.1	211.8	197.0
85°	330.0	326.7	234.8	233.1	210.1	203.6	198.7	200.3	195.4	177.3	160.9
87.5°	185.5	172.4	133.0	134.6	156.0	160.9	133.0	141.2	131.3	114.9	105.1
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°	2708.9	2708.9	2708.9	2708.9	2708.9
2.5°	2735.2	2733.5	2733.5	2738.5	2731.9
5°	2766.4	2764.7	2764.7	2769.7	2764.7
7.5°	2751.6	2746.7	2743.4	2741.8	2741.8
10°	2702.4	2697.4	2687.6	2684.3	2681.0
12.5°	2651.5	2646.5	2635.0	2635.0	2631.8
15°	2620.3	2613.7	2605.5	2600.6	2597.3
17.5°	2603.8	2594.0	2584.1	2579.2	2575.9
20°	2597.3	2584.1	2572.7	2564.4	2564.4
22.5°	2598.9	2582.5	2569.4	2559.5	2556.2
25°	2615.3	2590.7	2574.3	2564.4	2561.2
27.5°	2638.3	2608.8	2587.4	2574.3	2569.4
30°	2669.5	2628.5	2598.9	2582.5	2575.9
32.5°	2690.9	2633.4	2595.6	2572.7	2564.4
35°	2689.2	2615.3	2569.4	2539.8	2530.0
37.5°	2659.7	2572.7	2511.9	2475.8	2459.4
40°	2594.0	2493.8	2429.8	2395.3	2375.6
42.5°	2498.8	2390.4	2333.0	2295.2	2273.8
45°	2349.4	2242.7	2172.1	2142.5	2114.6
47.5°	2142.5	2034.2	1973.4	1930.7	1912.7
50°	1899.5	1791.2	1727.1	1692.7	1676.2
52.5°	1633.6	1530.1	1484.2	1451.3	1428.3
55°	1357.7	1262.5	1242.8	1206.7	1185.4
57.5°	1098.3	1042.5	1024.5	988.3	970.3
60°	858.6	840.6	820.9	797.9	788.0
62.5°	664.9	648.5	643.6	628.8	627.2
65°	507.3	508.9	505.7	502.4	499.1
66°	461.3	459.7	461.3	458.1	456.4
67.5°	392.4	398.9	403.9	402.2	402.2
70°	318.5	323.4	330.0	328.4	328.4
72.5°	272.5	280.7	284.0	282.4	282.4
75°	246.3	254.5	254.5	251.2	249.5
77.5°	229.8	233.1	229.8	226.6	223.3
80°	213.4	210.1	205.2	200.3	197.0
82.5°	185.5	177.3	172.4	164.2	164.2
85°	149.4	142.8	131.3	123.1	114.9
87.5°	96.9	93.6	85.4	64.0	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)