

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: P159579

Luminaire Tested: **VST-E08-LED-E-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159579
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-T3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (168) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22346.8 lumens
Efficiency: N/A
Efficacy: 114.9 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 (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

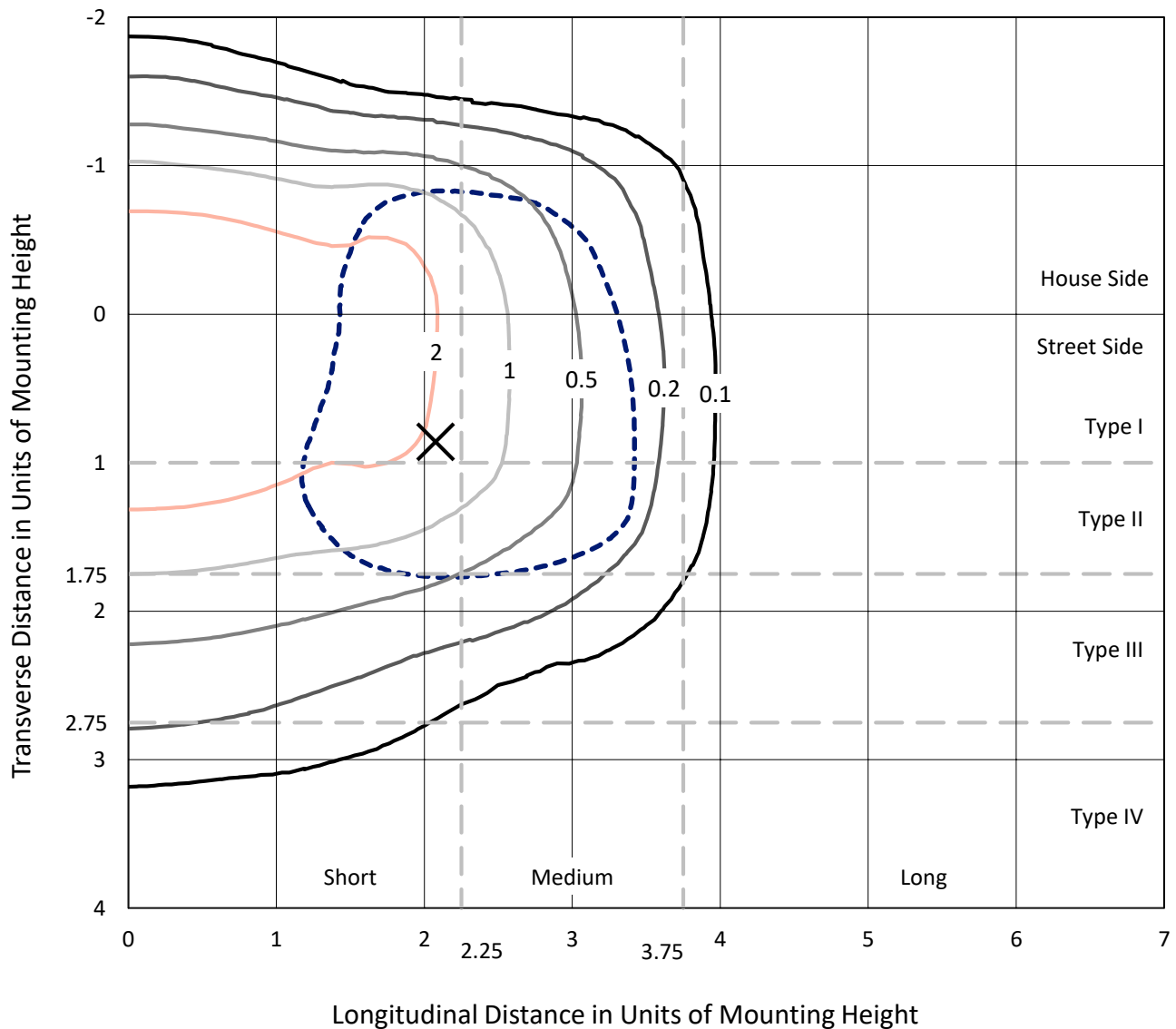


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

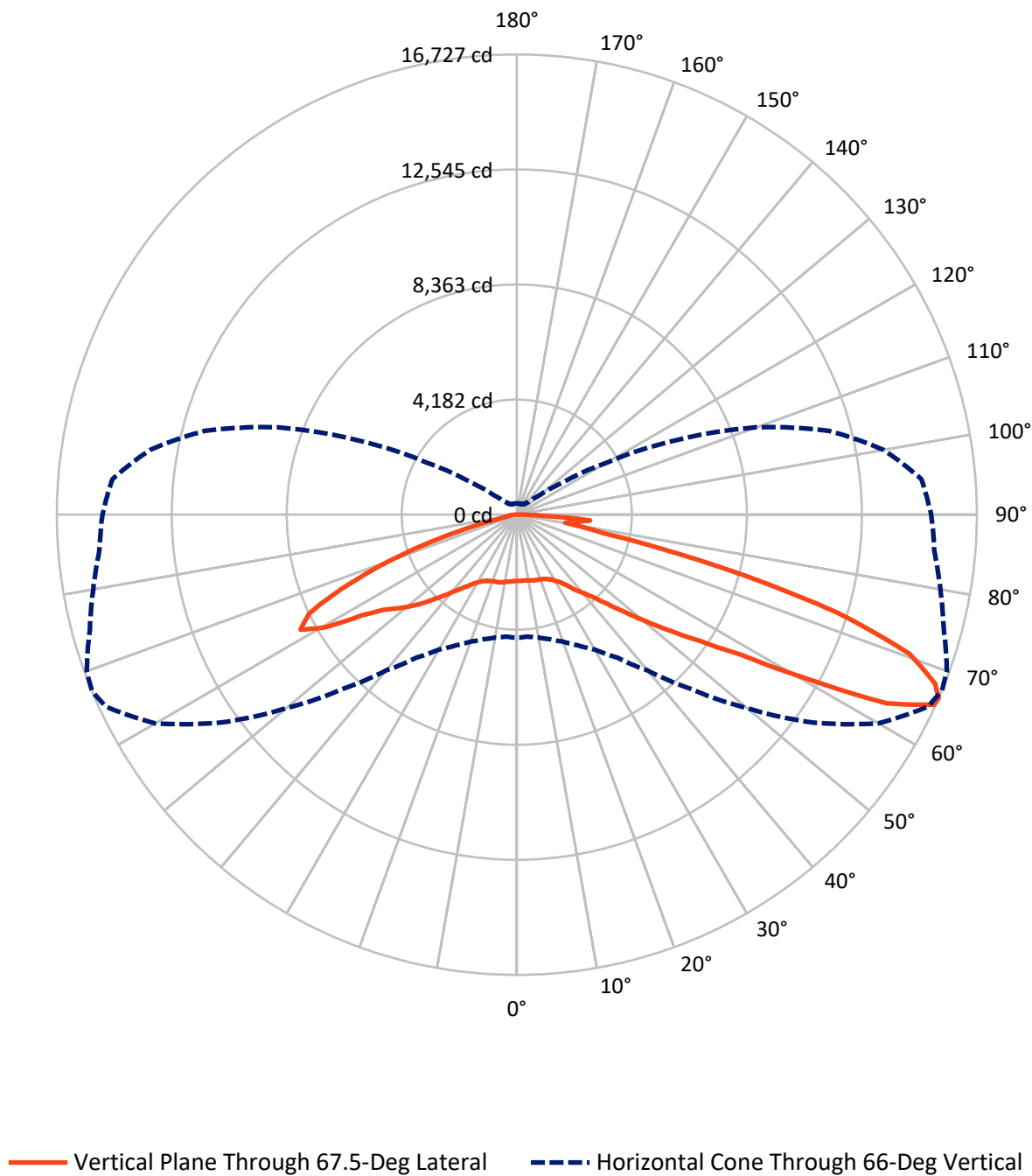


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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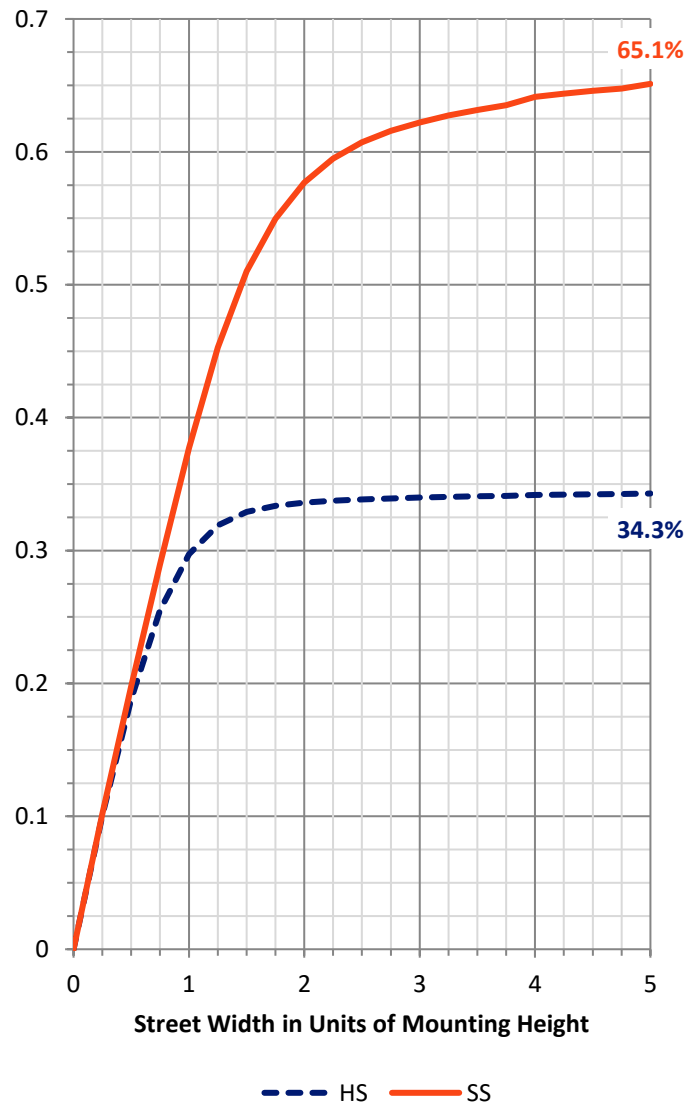
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7733.0	0.0	7733.0
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	14613.8	0.0	14613.8
	% Fixture	65.4	0.0	65.4
Total	Lumens	22346.8	0.0	22346.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.0
10°-20°	685.2	3.1
20°-30°	1177.8	5.3
30°-40°	1903.5	8.5
40°-50°	3154.6	14.1
50°-60°	4950.8	22.2
60°-70°	6768.8	30.3
70°-80°	2976.6	13.3
80°-90°	498.2	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°	22346.8	100.0
0°-180°	22346.8	100.0

Coefficient of Utilization



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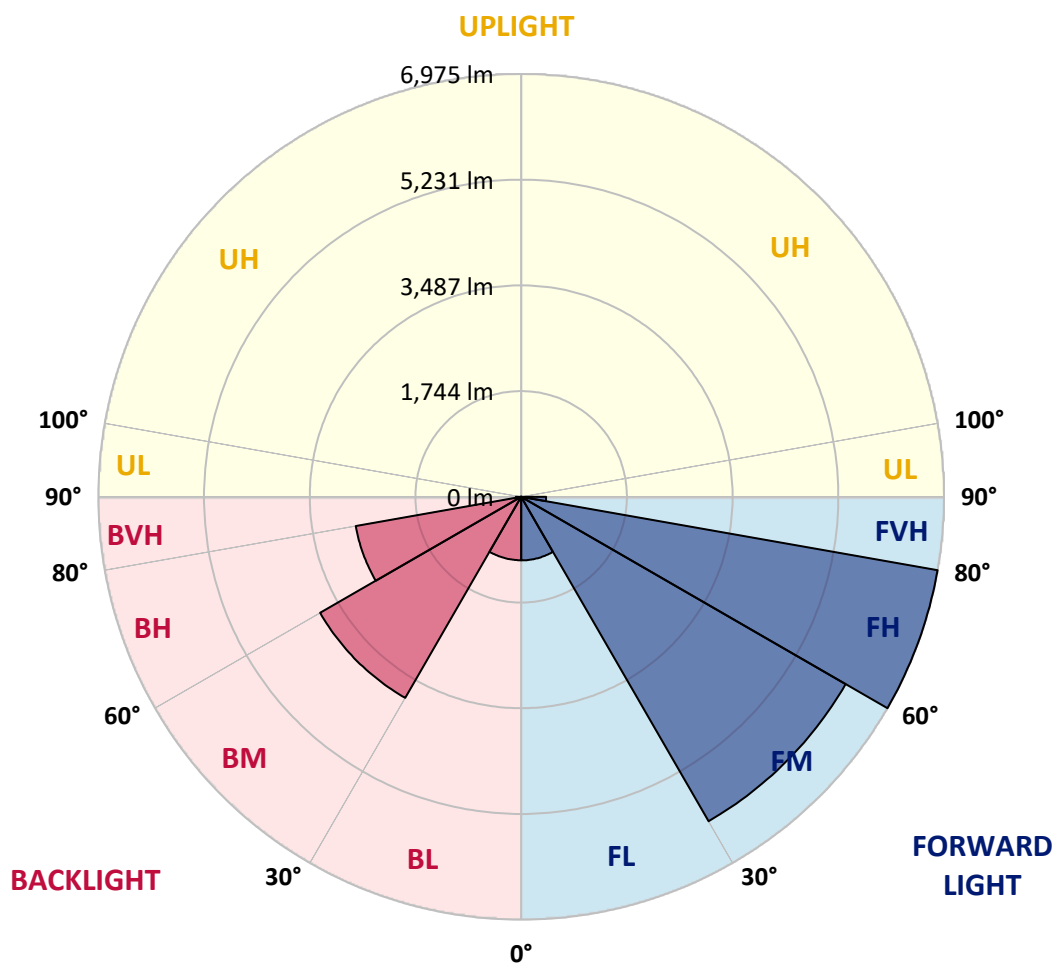
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1048.3	4.7			
FM	(30°-60°)	6179.6	27.7			
FH	(60°-80°)	6975.0	31.2			G3/7500
FVH	(80°-90°)	411.1	1.8			G3/500
BL	(0°-30°)	1046.1	4.7	B3/2500		
BM	(30°-60°)	3829.3	17.1	B3/5000		
BH	(60°-80°)	2770.4	12.4	B4/5000		G4/5000
BVH	(80°-90°)	87.2	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°	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2
2.5°	2406.9	2406.9	2408.3	2406.9	2406.9	2405.4	2411.2	2411.2	2411.2	2409.8	2414.2
5°	2401.0	2401.0	2402.5	2402.5	2403.9	2402.5	2406.9	2408.3	2408.3	2408.3	2412.7
7.5°	2386.4	2390.8	2387.9	2389.3	2390.8	2395.2	2401.0	2403.9	2406.9	2411.2	2412.7
10°	2355.7	2363.0	2361.6	2365.9	2367.4	2380.6	2384.9	2390.8	2401.0	2406.9	2411.2
12.5°	2313.3	2317.7	2319.2	2325.0	2330.9	2346.9	2358.6	2368.9	2383.5	2398.1	2412.7
15°	2279.7	2282.6	2282.6	2288.5	2297.3	2311.9	2326.5	2344.0	2365.9	2390.8	2414.2
17.5°	2290.0	2297.3	2291.4	2290.0	2292.9	2301.6	2314.8	2329.4	2355.7	2383.5	2411.2
20°	2357.2	2358.6	2355.7	2348.4	2342.6	2344.0	2344.0	2346.9	2363.0	2384.9	2406.9
22.5°	2412.7	2418.6	2417.1	2418.6	2417.1	2422.9	2420.0	2414.2	2408.3	2409.8	2420.0
25°	2460.9	2466.8	2466.8	2471.2	2478.5	2490.2	2498.9	2497.5	2488.7	2477.0	2472.6
27.5°	2539.8	2539.8	2539.8	2544.2	2554.5	2569.1	2583.7	2592.5	2599.8	2588.1	2563.2
30°	2664.1	2665.5	2661.1	2662.6	2669.9	2688.9	2706.4	2719.6	2734.2	2732.7	2700.6
32.5°	2800.0	2805.8	2804.4	2810.2	2820.4	2838.0	2857.0	2877.4	2896.4	2908.1	2887.6
35°	2975.3	2981.2	2982.6	2991.4	3003.1	3029.4	3055.7	3082.0	3102.5	3111.2	3106.9
37.5°	3263.2	3264.7	3258.8	3245.7	3250.1	3270.5	3301.2	3343.6	3356.7	3365.5	3386.0
40°	3694.3	3689.9	3666.6	3654.9	3647.6	3656.3	3650.5	3684.1	3714.8	3716.2	3714.8
42.5°	4217.5	4204.3	4182.4	4179.5	4176.6	4173.6	4157.6	4159.0	4186.8	4194.1	4185.3
45°	4737.7	4721.7	4705.6	4720.2	4702.7	4748.0	4761.1	4796.2	4800.6	4815.2	4793.3
47.5°	5164.4	5165.9	5165.9	5186.4	5221.4	5307.7	5385.1	5452.3	5477.2	5512.3	5516.6
50°	5487.4	5496.2	5523.9	5589.7	5664.2	5808.9	5939.0	6060.3	6169.9	6210.8	6318.9
52.5°	5675.9	5699.3	5757.8	5867.4	6000.3	6187.4	6392.0	6598.0	6788.0	6948.8	7077.4
55°	5642.3	5659.8	5762.1	5933.1	6140.6	6392.0	6678.4	6976.5	7273.2	7545.0	7755.4
57.5°	5426.0	5437.7	5540.0	5732.9	5991.6	6329.2	6733.9	7176.7	7593.2	8031.6	8391.1
60°	5142.5	5160.1	5255.1	5407.0	5677.4	6036.9	6506.0	7106.6	7771.5	8461.3	9133.5
62.5°	4961.3	4956.9	5040.2	5176.1	5379.3	5705.2	6156.7	6868.4	7789.1	8955.2	10283.6
65°	4660.3	4647.1	4733.3	4888.3	5108.9	5424.6	5852.7	6536.7	7604.9	9142.3	11026.0
66°	4473.2	4446.9	4533.1	4689.5	4910.2	5246.3	5656.9	6332.1	7381.3	8959.6	10947.1
67.5°	4145.9	4132.7	4173.6	4296.4	4460.1	4775.7	5203.9	5883.4	6852.3	8410.1	10368.4
70°	3369.9	3340.7	3372.8	3428.4	3491.2	3568.6	3831.7	4370.9	5190.8	6700.3	8353.1
72.5°	2295.8	2281.2	2341.1	2425.9	2593.9	2672.8	2776.6	2864.3	3153.6	4223.3	5826.4
75°	1746.3	1755.1	1831.1	1971.4	2187.7	2421.5	2649.4	2732.7	2636.3	2553.0	3307.1
77.5°	979.1	1030.3	1122.3	1300.6	1530.0	1860.3	2257.8	2696.2	2915.4	2861.3	2675.8
80°	403.3	396.0	441.3	539.2	618.2	888.5	1359.1	1908.5	2525.2	2915.4	2854.0
82.5°	112.5	115.4	149.1	191.4	247.0	314.2	491.0	789.1	1286.0	2000.6	2618.8
85°	35.1	35.1	48.2	71.6	84.8	97.9	124.2	204.6	349.3	697.1	1413.1
87.5°	7.3	7.3	10.2	20.5	21.9	21.9	27.8	38.0	33.6	30.7	137.4
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2
2.5°	2409.8	2406.9	2408.3	2409.8	2408.3	2408.3	2406.9	2405.4	2406.9	2406.9	2411.2
5°	2408.3	2406.9	2408.3	2408.3	2408.3	2409.8	2409.8	2409.8	2414.2	2414.2	2421.5
7.5°	2411.2	2411.2	2414.2	2414.2	2414.2	2414.2	2415.6	2418.6	2425.9	2424.4	2437.5
10°	2417.1	2420.0	2427.3	2428.8	2428.8	2433.2	2436.1	2441.9	2449.2	2452.2	2463.9
12.5°	2424.4	2439.0	2452.2	2455.1	2459.5	2466.8	2471.2	2474.1	2487.2	2491.6	2506.2
15°	2433.2	2453.6	2469.7	2475.5	2481.4	2490.2	2496.0	2500.4	2512.1	2517.9	2535.5
17.5°	2434.6	2458.0	2477.0	2485.8	2493.1	2503.3	2512.1	2520.8	2534.0	2542.8	2560.3
20°	2433.2	2463.9	2493.1	2504.8	2512.1	2531.1	2544.2	2555.9	2572.0	2580.8	2598.3
22.5°	2449.2	2484.3	2523.8	2538.4	2550.1	2576.4	2593.9	2612.9	2633.4	2639.2	2652.4
25°	2487.2	2523.8	2573.5	2593.9	2614.4	2649.4	2674.3	2702.1	2722.5	2725.4	2729.8
27.5°	2551.5	2585.1	2645.1	2675.8	2709.4	2759.0	2795.6	2823.3	2852.6	2852.6	2849.7
30°	2681.6	2688.9	2751.7	2791.2	2840.9	2914.0	2968.0	2998.7	3020.6	3020.6	2995.8
32.5°	2849.7	2840.9	2897.9	2940.3	3008.9	3111.2	3184.3	3207.7	3231.1	3223.8	3181.4
35°	3092.2	3067.4	3099.5	3163.8	3241.3	3381.6	3457.6	3510.2	3524.8	3504.3	3437.1
37.5°	3397.7	3394.7	3410.8	3482.4	3568.6	3749.9	3827.3	3860.9	3849.2	3812.7	3694.3
40°	3720.6	3711.9	3701.6	3749.9	3846.3	4064.0	4201.4	4218.9	4202.9	4148.8	3999.7
42.5°	4151.7	4151.7	4103.5	4116.7	4197.0	4441.1	4603.3	4658.8	4660.3	4581.4	4382.6
45°	4745.0	4739.2	4654.4	4634.0	4695.4	4935.0	5144.0	5174.7	5174.7	5070.9	4853.2
47.5°	5458.2	5450.9	5367.6	5296.0	5307.7	5566.3	5740.2	5787.0	5746.1	5668.6	5410.0
50°	6261.9	6248.8	6164.0	6096.8	6067.6	6329.2	6476.7	6498.7	6438.8	6346.7	6066.1
52.5°	7077.4	7116.8	7067.1	7030.6	7040.8	7210.4	7362.3	7258.6	7227.9	7128.5	6846.5
55°	7926.4	8047.7	8157.3	8125.2	8163.2	8328.3	8357.5	8220.2	8164.6	8093.0	7778.8
57.5°	8781.3	9135.0	9494.5	9595.3	9688.8	9925.6	9891.9	9666.9	9709.3	9816.0	9462.3
60°	9975.2	10996.7	11908.6	12076.7	12367.5	12569.2	12614.5	12570.6	12767.9	12712.4	12399.6
62.5°	11809.3	13511.7	14780.2	15095.9	15388.1	15377.9	15224.5	15066.6	15261.0	15261.0	14444.1
65°	13118.6	15050.6	16408.2	16669.7	16658.0	16305.9	15943.4	15627.8	15600.0	15383.7	14189.8
66°	13180.0	15168.9	16498.8	16726.7	16639.1	16072.0	15638.0	15237.6	15066.6	14765.6	13542.4
67.5°	12627.6	14834.3	16203.6	16402.3	16171.4	15358.9	14761.2	14224.9	13976.5	13469.4	12317.8
70°	10358.1	12748.9	14740.7	15147.0	14885.4	13856.6	13038.3	12313.4	11838.5	11106.3	10276.3
72.5°	7561.1	9412.6	11569.6	12230.1	12189.2	11242.2	10583.2	9919.7	9295.7	8629.3	8022.9
75°	4914.6	6123.1	7325.8	7711.6	7526.0	6978.0	6506.0	6118.7	5526.9	5063.6	4951.1
77.5°	2805.8	3428.4	3242.8	3194.5	2962.2	2390.8	1590.0	1115.0	1006.9	1256.8	1378.1
80°	2669.9	2420.0	1981.6	1787.2	1642.6	1119.4	587.5	413.6	362.4	371.2	399.0
82.5°	3010.4	3137.5	2566.1	2143.8	1866.2	1362.0	743.8	346.3	252.8	299.6	336.1
85°	2256.3	3177.0	3149.2	2668.4	2189.1	1569.5	879.7	264.5	152.0	210.4	274.7
87.5°	457.4	752.6	724.8	637.2	542.2	378.5	147.6	83.3	76.0	103.8	157.8
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°	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2
2.5°	2414.2	2414.2	2417.1	2421.5	2422.9	2422.9	2425.9	2422.9	2428.8	2430.2	2431.7
5°	2427.3	2431.7	2434.6	2441.9	2446.3	2449.2	2453.6	2450.7	2456.5	2458.0	2460.9
7.5°	2441.9	2449.2	2455.1	2458.0	2463.9	2463.9	2465.3	2462.4	2460.9	2456.5	2455.1
10°	2468.2	2472.6	2479.9	2477.0	2474.1	2463.9	2455.1	2441.9	2434.6	2421.5	2414.2
12.5°	2510.6	2513.5	2513.5	2500.4	2481.4	2458.0	2436.1	2414.2	2396.6	2382.0	2373.2
15°	2539.8	2545.7	2538.4	2519.4	2491.6	2459.5	2430.2	2401.0	2377.6	2358.6	2346.9
17.5°	2561.8	2560.3	2547.2	2520.8	2494.5	2466.8	2440.5	2409.8	2380.6	2352.8	2335.3
20°	2595.4	2580.8	2557.4	2529.6	2501.8	2478.5	2458.0	2428.8	2398.1	2360.1	2333.8
22.5°	2640.7	2614.4	2580.8	2551.5	2525.2	2503.3	2479.9	2455.1	2422.9	2380.6	2344.0
25°	2705.0	2659.7	2621.7	2592.5	2569.1	2544.2	2517.9	2485.8	2453.6	2409.8	2365.9
27.5°	2802.9	2735.7	2687.4	2661.1	2639.2	2605.6	2572.0	2534.0	2493.1	2447.8	2398.1
30°	2921.3	2840.9	2785.4	2762.0	2735.7	2697.7	2661.1	2608.5	2551.5	2497.5	2436.1
32.5°	3060.1	2978.3	2922.7	2905.2	2862.8	2819.0	2767.8	2697.7	2623.1	2542.8	2469.7
35°	3270.5	3166.8	3115.6	3074.7	3016.2	2963.6	2877.4	2785.4	2678.7	2572.0	2481.4
37.5°	3486.8	3381.6	3329.0	3272.0	3196.0	3099.5	2984.1	2852.6	2710.8	2579.3	2468.2
40°	3776.2	3662.2	3594.9	3507.3	3384.5	3234.0	3063.0	2883.3	2710.8	2547.2	2412.7
42.5°	4113.7	4008.5	3904.8	3760.1	3562.8	3343.6	3103.9	2873.0	2664.1	2475.5	2333.8
45°	4581.4	4401.6	4236.5	4004.1	3716.2	3407.9	3108.3	2824.8	2583.7	2374.7	2216.9
47.5°	5107.5	4875.1	4582.8	4218.9	3825.8	3432.7	3065.9	2734.2	2456.5	2230.0	2057.6
50°	5713.9	5357.3	4908.7	4389.9	3881.4	3399.1	2965.1	2582.2	2281.2	2021.1	1836.9
52.5°	6408.1	5864.4	5203.9	4511.2	3872.6	3296.8	2798.5	2382.0	2045.9	1769.7	1588.5
55°	7178.2	6416.8	5485.9	4588.7	3793.7	3098.1	2536.9	2100.0	1753.6	1481.8	1322.5
57.5°	8535.8	7385.7	6023.7	4692.4	3628.6	2797.0	2205.2	1743.4	1430.7	1199.8	1047.8
60°	11058.1	9079.4	7042.3	4936.5	3380.1	2420.0	1787.2	1367.8	1106.2	938.2	825.7
62.5°	12618.8	10271.9	7539.2	4901.4	2976.8	1904.2	1326.9	1014.2	808.1	697.1	626.9
65°	12249.1	9804.3	6932.7	4210.2	2316.3	1350.3	878.3	663.5	555.3	498.3	464.7
66°	11746.4	9281.1	6419.8	3770.3	2018.1	1128.2	724.8	556.8	477.9	435.5	417.9
67.5°	10692.8	8325.4	5537.1	3019.2	1512.5	840.3	534.9	436.9	388.7	366.8	355.1
70°	8949.4	6707.6	3916.4	1782.9	819.8	455.9	342.0	304.0	292.3	285.0	280.6
72.5°	6919.5	4856.1	2288.5	876.8	413.6	295.2	260.1	244.0	239.7	239.7	241.1
75°	4359.2	2791.2	1024.4	422.3	280.6	238.2	222.1	214.8	216.3	217.7	216.3
77.5°	1448.2	963.0	426.7	299.6	244.0	216.3	203.1	200.2	203.1	204.6	204.6
80°	416.5	363.9	308.3	264.5	223.6	201.7	190.0	188.5	195.8	197.3	194.4
82.5°	320.0	299.6	279.1	255.7	214.8	190.0	185.6	187.1	191.4	188.5	175.4
85°	293.7	290.8	209.0	207.5	187.1	181.2	176.8	178.3	173.9	157.8	143.2
87.5°	165.1	153.4	118.4	119.8	138.8	143.2	118.4	125.7	116.9	102.3	93.5
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):

	160°	165°	170°	175°	180°
0°	2411.2	2411.2	2411.2	2411.2	2411.2
2.5°	2434.6	2433.2	2433.2	2437.5	2431.7
5°	2462.4	2460.9	2460.9	2465.3	2460.9
7.5°	2449.2	2444.9	2441.9	2440.5	2440.5
10°	2405.4	2401.0	2392.2	2389.3	2386.4
12.5°	2360.1	2355.7	2345.5	2345.5	2342.6
15°	2332.3	2326.5	2319.2	2314.8	2311.9
17.5°	2317.7	2308.9	2300.2	2295.8	2292.9
20°	2311.9	2300.2	2290.0	2282.6	2282.6
22.5°	2313.3	2298.7	2287.0	2278.3	2275.3
25°	2327.9	2306.0	2291.4	2282.6	2279.7
27.5°	2348.4	2322.1	2303.1	2291.4	2287.0
30°	2376.2	2339.6	2313.3	2298.7	2292.9
32.5°	2395.2	2344.0	2310.4	2290.0	2282.6
35°	2393.7	2327.9	2287.0	2260.7	2252.0
37.5°	2367.4	2290.0	2235.9	2203.7	2189.1
40°	2308.9	2219.8	2162.8	2132.1	2114.6
42.5°	2224.2	2127.7	2076.6	2043.0	2024.0
45°	2091.2	1996.2	1933.4	1907.1	1882.2
47.5°	1907.1	1810.6	1756.6	1718.6	1702.5
50°	1690.8	1594.3	1537.4	1506.7	1492.0
52.5°	1454.1	1362.0	1321.1	1291.8	1271.4
55°	1208.5	1123.8	1106.2	1074.1	1055.1
57.5°	977.7	928.0	911.9	879.7	863.7
60°	764.3	748.2	730.7	710.2	701.5
62.5°	591.9	577.2	572.9	559.7	558.2
65°	451.6	453.0	450.1	447.2	444.3
66°	410.6	409.2	410.6	407.7	406.3
67.5°	349.3	355.1	359.5	358.0	358.0
70°	283.5	287.9	293.7	292.3	292.3
72.5°	242.6	249.9	252.8	251.4	251.4
75°	219.2	226.5	226.5	223.6	222.1
77.5°	204.6	207.5	204.6	201.7	198.7
80°	190.0	187.1	182.7	178.3	175.4
82.5°	165.1	157.8	153.4	146.1	146.1
85°	133.0	127.1	116.9	109.6	102.3
87.5°	86.2	83.3	76.0	57.0	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)