

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: P158479

Luminaire Tested: **VST-E08-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158479
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
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-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (168) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22043.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - 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



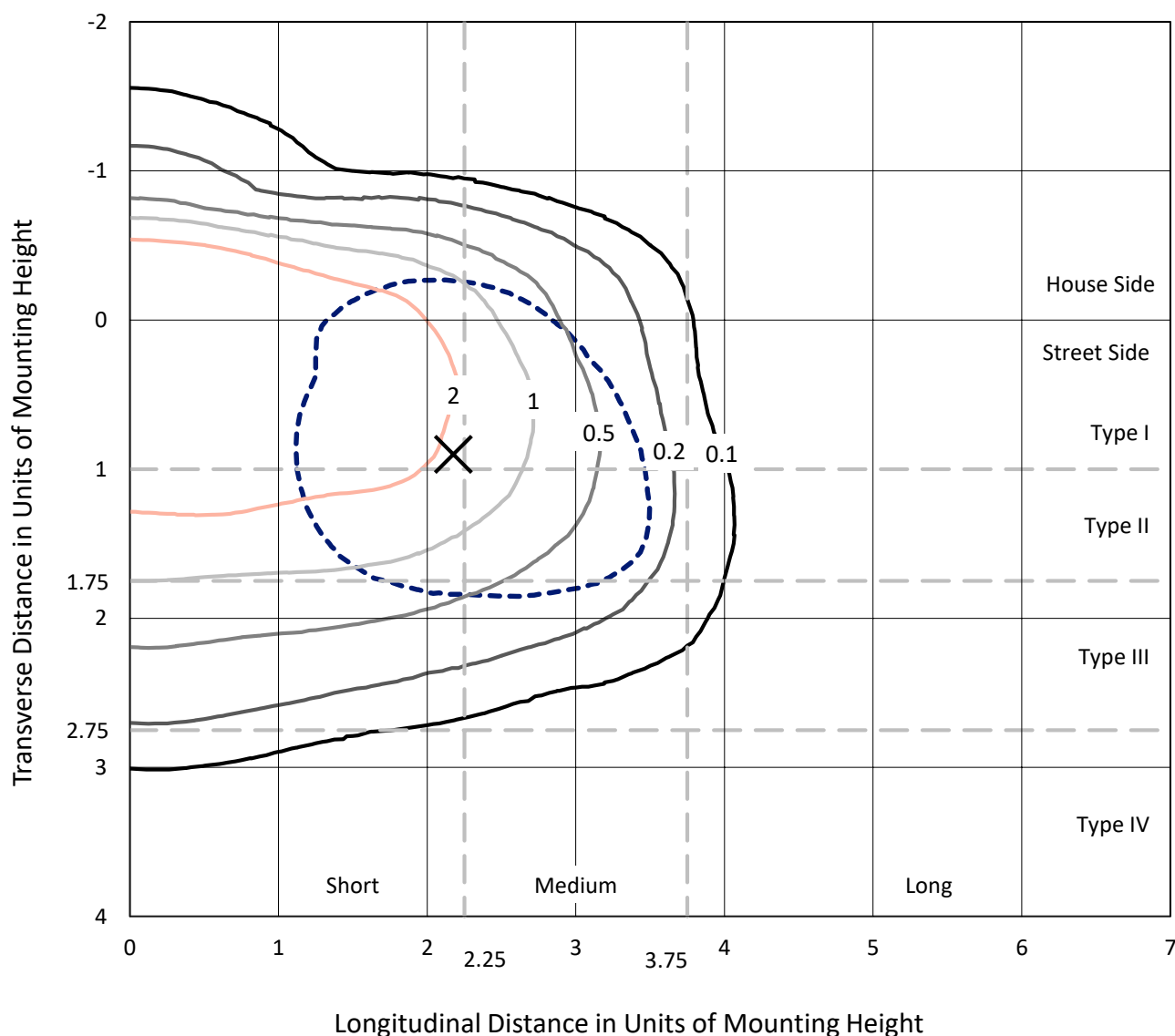
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

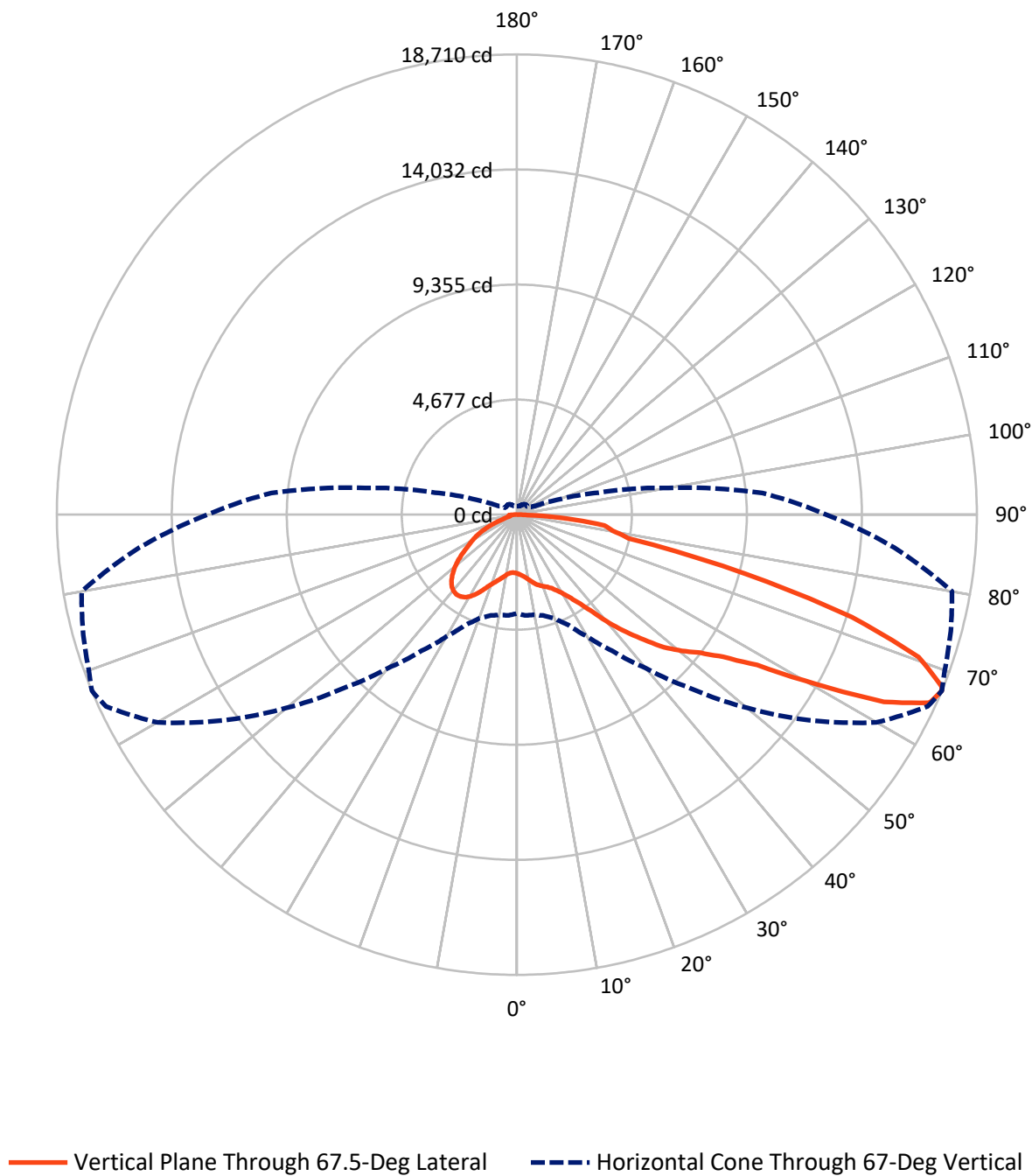


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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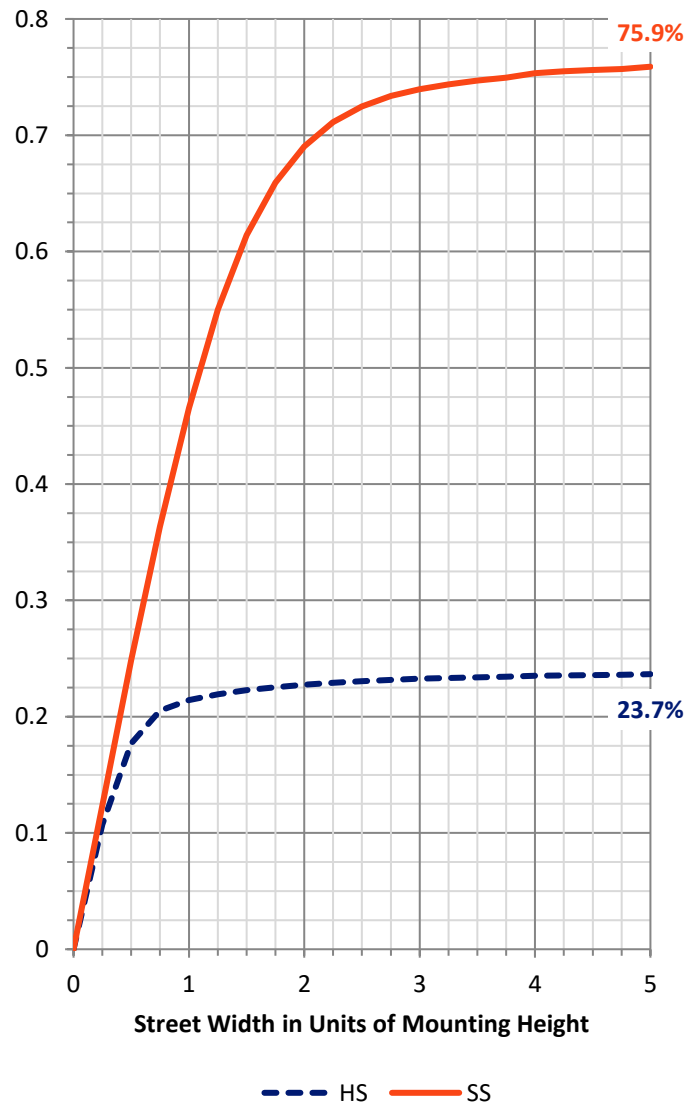
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5288.3	0.0	5288.3
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	16755.3	0.0	16755.3
	% Fixture	76.0	0.0	76.0
Total	Lumens	22043.7	0.0	22043.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	1.1
10°-20°	809.1	3.7
20°-30°	1444.4	6.6
30°-40°	2116.9	9.6
40°-50°	3270.9	14.8
50°-60°	4763.0	21.6
60°-70°	6204.6	28.1
70°-80°	2777.4	12.6
80°-90°	419.9	1.9
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°	22043.7	100.0
0°-180°	22043.7	100.0

Coefficient of Utilization



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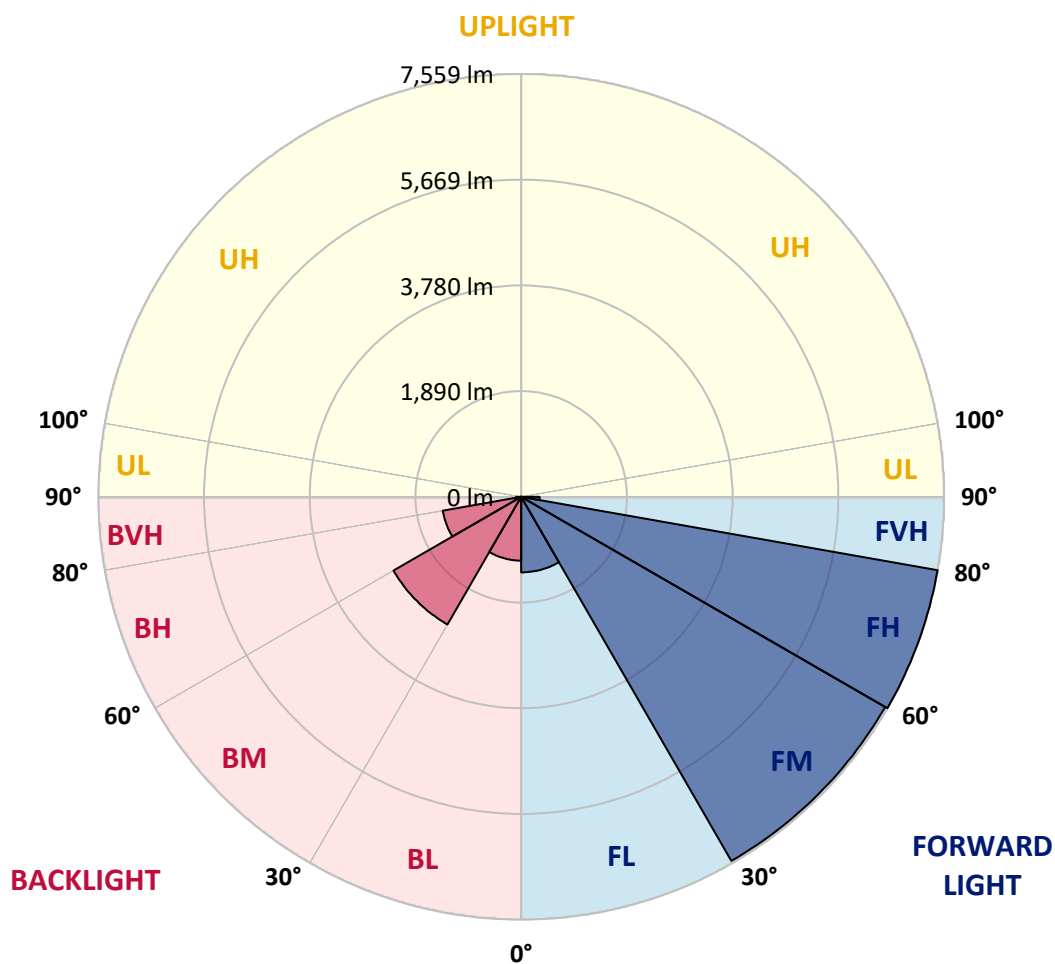
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.6	6.1			
FM	(30°-60°)	7515.7	34.1			
FH	(60°-80°)	7559.2	34.3			G4/12000
FVH	(80°-90°)	329.8	1.5			G3/500
BL	(0°-30°)	1140.3	5.2	B3/2500		
BM	(30°-60°)	2635.1	12.0	B3/5000		
BH	(60°-80°)	1422.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	90.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3
2.5°	2482.9	2488.7	2490.2	2488.7	2490.2	2484.3	2482.9	2474.1	2478.5	2466.8	2463.9
5°	2617.3	2621.7	2624.6	2612.9	2615.8	2610.0	2602.7	2593.9	2582.2	2566.1	2555.9
7.5°	2748.8	2756.1	2754.7	2750.3	2740.1	2734.2	2719.6	2706.4	2686.0	2667.0	2653.8
10°	2925.6	2924.2	2924.2	2899.3	2884.7	2871.6	2845.3	2824.8	2804.4	2776.6	2762.0
12.5°	3130.2	3120.0	3115.6	3098.1	3067.4	3044.0	3006.0	2966.6	2930.0	2900.8	2877.4
15°	3327.5	3327.5	3315.8	3288.1	3258.8	3228.1	3174.1	3117.1	3057.2	3010.4	2987.0
17.5°	3507.3	3491.2	3481.0	3444.4	3413.7	3364.1	3304.1	3242.8	3168.2	3102.5	3057.2
20°	3638.8	3625.6	3603.7	3558.4	3505.8	3447.3	3377.2	3305.6	3225.2	3153.6	3102.5
22.5°	3714.8	3698.7	3665.1	3605.2	3533.6	3451.7	3369.9	3302.7	3229.6	3175.5	3133.2
25°	3754.2	3738.2	3692.9	3613.9	3517.5	3409.4	3315.8	3250.1	3207.7	3194.5	3188.7
27.5°	3752.8	3739.6	3691.4	3600.8	3476.6	3352.4	3251.5	3196.0	3191.6	3242.8	3280.8
30°	3714.8	3706.0	3662.2	3571.6	3441.5	3311.4	3217.9	3188.7	3234.0	3342.1	3435.7
32.5°	3676.8	3672.4	3641.7	3559.9	3448.8	3339.2	3274.9	3277.8	3371.4	3538.0	3688.5
35°	3681.2	3687.0	3682.6	3638.8	3568.6	3511.6	3481.0	3545.3	3691.4	3893.1	4094.7
37.5°	3719.2	3741.1	3768.8	3773.2	3774.7	3765.9	3830.2	3966.1	4179.5	4442.5	4758.2
40°	3802.5	3827.3	3907.7	3977.8	4068.4	4176.6	4306.6	4495.1	4759.7	5084.1	5471.3
42.5°	4061.1	4096.2	4195.6	4325.6	4492.2	4661.7	4856.1	5113.3	5437.7	5779.7	6185.9
45°	4398.7	4471.8	4581.4	4726.0	4975.9	5214.1	5465.5	5753.4	6098.3	6526.4	6935.6
47.5°	4819.6	4892.6	5051.9	5206.8	5502.0	5798.7	6073.4	6374.5	6748.6	7187.0	7640.0
50°	5187.8	5271.1	5412.9	5621.9	5963.8	6327.7	6631.7	6957.5	7271.7	7733.5	8190.9
52.5°	5477.2	5537.1	5673.0	5864.4	6245.9	6644.8	7029.1	7391.6	7764.2	8226.0	8649.8
55°	5513.7	5569.2	5702.2	5921.4	6308.7	6751.5	7194.3	7623.9	8151.5	8655.6	9216.8
57.5°	5355.9	5401.2	5535.6	5731.5	6108.5	6612.7	7172.4	7723.3	8398.4	9079.4	9764.8
60°	5132.3	5177.6	5282.8	5439.2	5779.7	6323.3	6976.5	7730.6	8627.9	9611.4	10619.7
62.5°	4886.8	4926.2	5011.0	5122.1	5421.6	5922.9	6671.1	7682.4	8814.9	10140.4	11695.3
65°	4473.2	4568.2	4604.7	4718.7	5018.3	5491.8	6253.2	7356.5	8738.9	10375.7	12370.4
67°	4015.8	4112.3	4131.3	4246.7	4486.4	4940.9	5715.4	6752.9	8136.9	9969.4	12221.4
67.5°	3869.7	3951.5	3980.7	4096.2	4322.7	4750.9	5485.9	6535.2	7952.7	9747.3	12041.6
70°	2845.3	2935.9	2968.0	3016.2	3178.5	3535.0	4021.7	4932.1	6340.8	7954.2	10157.9
72.5°	1522.7	1595.8	1626.5	1698.1	1781.4	1975.8	2348.4	3001.6	3891.6	5322.3	7226.4
75°	1030.3	1059.5	1081.4	1131.1	1217.3	1372.2	1535.9	1765.3	2303.1	3003.1	4112.3
77.5°	587.5	600.6	603.5	612.3	681.0	828.6	1097.5	1486.2	1905.6	2176.0	2630.4
80°	254.3	280.6	301.0	287.9	283.5	314.2	393.1	586.0	1148.6	1823.8	2164.3
82.5°	137.4	149.1	166.6	168.1	176.8	187.1	203.1	241.1	339.0	683.9	1492.0
85°	71.6	74.5	99.4	114.0	121.3	127.1	130.1	144.7	166.6	211.9	371.2
87.5°	10.2	14.6	17.5	23.4	26.3	27.8	32.1	40.9	48.2	58.5	99.4
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°	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3
2.5°	2450.7	2447.8	2439.0	2433.2	2427.3	2421.5	2414.2	2408.3	2398.1	2390.8	2382.0
5°	2541.3	2523.8	2512.1	2496.0	2493.1	2474.1	2455.1	2446.3	2428.8	2414.2	2396.6
7.5°	2633.4	2612.9	2593.9	2580.8	2573.5	2547.2	2528.2	2506.2	2485.8	2466.8	2446.3
10°	2741.5	2721.1	2700.6	2691.8	2678.7	2653.8	2637.8	2610.0	2589.5	2566.1	2538.4
12.5°	2854.0	2839.4	2824.8	2813.1	2807.3	2795.6	2772.2	2748.8	2721.1	2697.7	2665.5
15°	2953.4	2943.2	2937.3	2934.4	2934.4	2927.1	2905.2	2883.3	2854.0	2827.7	2792.7
17.5°	3023.6	3019.2	3023.6	3027.9	3033.8	3027.9	3023.6	2998.7	2979.7	2947.6	2912.5
20°	3064.5	3073.2	3095.2	3109.8	3122.9	3133.2	3137.5	3117.1	3092.2	3068.9	3045.5
22.5°	3108.3	3133.2	3171.2	3193.1	3215.0	3251.5	3260.3	3245.7	3226.7	3212.1	3187.2
25°	3181.4	3217.9	3283.7	3318.7	3349.4	3403.5	3410.8	3413.7	3409.4	3397.7	3367.0
27.5°	3295.4	3367.0	3454.7	3500.0	3533.6	3603.7	3631.5	3631.5	3619.8	3632.9	3632.9
30°	3494.1	3589.1	3703.1	3729.4	3782.0	3843.4	3888.7	3894.5	3896.0	3923.8	3964.7
32.5°	3799.5	3890.1	4017.3	4046.5	4091.8	4150.3	4201.4	4195.6	4208.7	4268.6	4322.7
35°	4243.8	4335.9	4419.2	4458.6	4479.1	4531.7	4550.7	4582.8	4622.3	4696.8	4689.5
37.5°	4901.4	4983.2	4994.9	5019.8	4994.9	5005.2	5019.8	5057.8	5163.0	5230.2	5122.1
40°	5693.5	5829.4	5816.2	5787.0	5731.5	5656.9	5683.2	5741.7	5855.7	5797.2	5506.4
42.5°	6440.2	6580.5	6554.2	6520.6	6397.8	6370.1	6367.1	6415.4	6476.7	6310.2	5807.4
45°	7175.3	7318.5	7273.2	7254.2	7172.4	7112.4	7162.1	7165.1	7149.0	6792.4	6070.5
47.5°	7933.7	8065.2	8036.0	8052.1	7967.3	7927.9	7932.3	7911.8	7761.3	7201.6	6275.1
50°	8546.0	8722.9	8740.4	8703.9	8658.6	8598.6	8752.1	8696.6	8361.9	7599.1	6472.4
52.5°	9022.4	9260.6	9351.2	9327.9	9291.3	9298.6	9586.5	9649.4	9095.5	8100.3	6690.1
55°	9586.5	9962.1	10109.7	10197.4	10159.4	10305.5	10964.6	10996.7	10115.5	8755.0	6973.6
57.5°	10400.5	10938.3	11404.5	11528.7	11648.5	12123.4	13193.2	12867.3	11439.5	9745.8	7333.1
60°	11638.3	12816.1	13573.1	13970.6	14251.2	14914.6	15931.8	15106.1	13089.4	10925.1	7784.7
62.5°	13371.4	15092.9	16358.5	16757.4	16872.9	17254.3	17990.8	16411.1	13988.1	11454.1	7824.1
65°	14661.8	16726.7	18242.2	18446.8	18309.4	18316.7	18509.6	16342.4	13653.5	10992.4	7146.1
67°	14577.1	16888.9	18440.9	18709.8	18519.8	18269.9	17968.9	15411.5	12577.9	10024.9	6257.5
67.5°	14447.0	16732.6	18354.7	18638.2	18464.3	18179.3	17739.5	15050.6	12243.3	9723.9	6076.3
70°	12488.8	14758.3	16943.0	17342.0	17415.0	17154.9	15920.1	12690.5	9940.2	7910.3	4718.7
72.5°	9721.0	11742.0	13903.4	14249.7	14530.3	13780.6	11587.1	8765.2	7245.4	5700.8	3416.7
75°	6418.3	8474.4	9564.6	9615.8	9257.7	7869.4	5661.3	4389.9	4040.7	3350.9	2114.6
77.5°	3434.2	4983.2	5013.9	4642.7	4473.2	3334.8	1353.2	746.8	831.5	944.0	841.7
80°	2561.8	3174.1	3678.2	3954.4	4036.3	2859.9	700.0	396.0	346.3	315.7	311.3
82.5°	2310.4	3065.9	3437.1	3587.6	3549.6	2352.8	393.1	266.0	220.7	239.7	273.3
85°	906.0	1636.7	2152.6	2083.9	1750.7	876.8	214.8	143.2	143.2	207.5	268.9
87.5°	185.6	336.1	455.9	435.5	391.6	169.5	105.2	86.2	87.7	168.1	254.3
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°	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3
2.5°	2373.2	2364.5	2358.6	2352.8	2346.9	2344.0	2339.6	2339.6	2330.9	2327.9	2325.0
5°	2383.5	2368.9	2358.6	2345.5	2335.3	2326.5	2314.8	2311.9	2301.6	2294.3	2291.4
7.5°	2427.3	2405.4	2383.5	2367.4	2352.8	2333.8	2320.6	2308.9	2298.7	2291.4	2282.6
10°	2510.6	2487.2	2456.5	2427.3	2408.3	2379.1	2358.6	2338.2	2326.5	2317.7	2306.0
12.5°	2633.4	2599.8	2563.2	2528.2	2496.0	2458.0	2437.5	2412.7	2398.1	2390.8	2382.0
15°	2759.0	2722.5	2677.2	2643.6	2607.1	2577.8	2558.8	2536.9	2525.2	2516.5	2510.6
17.5°	2887.6	2845.3	2813.1	2779.5	2762.0	2740.1	2715.2	2687.4	2653.8	2633.4	2605.6
20°	3019.2	2987.0	2968.0	2949.0	2928.6	2897.9	2848.2	2791.2	2728.4	2668.4	2611.5
22.5°	3172.6	3153.6	3150.7	3133.2	3090.8	3017.7	2925.6	2819.0	2712.3	2612.9	2535.5
25°	3388.9	3388.9	3374.3	3302.7	3203.3	3071.8	2916.9	2763.4	2621.7	2485.8	2383.5
27.5°	3660.7	3650.5	3578.9	3431.3	3253.0	3048.4	2840.9	2646.5	2465.3	2316.3	2184.7
30°	3960.3	3888.7	3735.2	3502.9	3235.5	2972.4	2718.1	2493.1	2279.7	2097.1	1942.1
32.5°	4271.6	4097.7	3821.5	3502.9	3174.1	2858.4	2564.7	2288.5	2044.4	1839.9	1655.7
35°	4553.6	4236.5	3841.9	3445.9	3054.2	2690.4	2349.9	2037.1	1744.9	1524.2	1322.5
37.5°	4809.3	4328.5	3820.0	3334.8	2880.3	2453.6	2054.7	1709.8	1379.5	1166.2	993.7
40°	4975.9	4347.5	3729.4	3160.9	2631.9	2133.6	1692.3	1306.5	1044.9	850.5	735.1
42.5°	5079.7	4311.0	3583.3	2922.7	2297.3	1731.7	1269.9	936.7	742.4	634.2	590.4
45°	5138.1	4216.0	3367.0	2596.8	1892.5	1316.7	901.7	676.6	571.4	533.4	518.8
47.5°	5135.2	4062.6	3096.6	2219.8	1445.3	917.7	638.6	527.6	498.3	486.6	483.7
50°	5104.5	3874.1	2779.5	1810.6	1043.4	640.1	505.6	473.5	466.2	458.9	455.9
52.5°	5062.2	3640.2	2428.8	1411.7	740.9	511.5	458.9	450.1	444.3	436.9	434.0
55°	4983.2	3352.4	2048.8	1062.4	580.2	461.8	442.8	439.9	432.6	422.3	416.5
57.5°	4886.8	3060.1	1684.9	830.1	512.9	450.1	439.9	435.5	425.3	413.6	401.9
60°	4851.7	2819.0	1400.0	700.0	496.9	454.5	447.2	441.3	426.7	409.2	396.0
62.5°	4632.5	2547.2	1195.4	648.8	505.6	473.5	470.6	461.8	439.9	419.4	399.0
65°	4065.5	2154.0	1012.7	613.8	523.2	505.6	508.6	495.4	473.5	445.7	409.2
67°	3438.6	1756.6	843.2	580.2	536.3	539.2	549.5	539.2	511.5	472.0	422.3
67.5°	3272.0	1655.7	800.8	569.9	539.2	548.0	559.7	552.4	524.6	479.3	428.2
70°	2431.7	1166.2	597.7	515.9	539.2	574.3	600.6	607.9	577.2	514.4	439.9
72.5°	1712.7	752.6	458.9	447.2	489.6	536.3	586.0	610.8	575.8	507.1	423.8
75°	1028.8	470.6	372.6	380.0	412.1	460.3	499.8	510.0	466.2	422.3	366.8
77.5°	476.4	312.7	292.3	302.5	333.2	355.1	355.1	334.7	301.0	274.7	263.0
80°	280.6	255.7	254.3	273.3	293.7	277.7	252.8	225.0	207.5	198.7	194.4
82.5°	263.0	273.3	290.8	295.2	279.1	239.7	209.0	181.2	172.4	168.1	163.7
85°	309.8	331.7	302.5	279.1	247.0	201.7	163.7	140.3	135.9	131.5	125.7
87.5°	286.4	273.3	238.2	204.6	169.5	122.8	89.1	80.4	86.2	84.8	81.8
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):

	160°	165°	170°	175°	180°
0°	2389.3	2389.3	2389.3	2389.3	2389.3
2.5°	2326.5	2326.5	2320.6	2317.7	2325.0
5°	2285.6	2287.0	2282.6	2281.2	2282.6
7.5°	2276.8	2275.3	2272.4	2269.5	2272.4
10°	2303.1	2301.6	2297.3	2300.2	2295.8
12.5°	2382.0	2390.8	2389.3	2392.2	2398.1
15°	2510.6	2509.2	2504.8	2507.7	2512.1
17.5°	2583.7	2572.0	2561.8	2557.4	2557.4
20°	2566.1	2532.5	2515.0	2504.8	2501.8
22.5°	2462.4	2414.2	2377.6	2368.9	2361.6
25°	2292.9	2233.0	2186.2	2176.0	2157.0
27.5°	2095.6	2015.2	1959.7	1948.0	1937.8
30°	1836.9	1744.9	1680.6	1639.6	1652.8
32.5°	1521.3	1433.6	1359.1	1293.3	1283.1
35°	1174.9	1078.5	1012.7	983.5	964.5
37.5°	876.8	796.4	752.6	724.8	726.3
40°	670.8	628.4	605.0	586.0	587.5
42.5°	559.7	540.7	534.9	526.1	521.7
45°	507.1	501.2	502.7	493.9	491.0
47.5°	477.9	473.5	474.9	469.1	467.6
50°	454.5	451.6	453.0	448.6	447.2
52.5°	431.1	432.6	431.1	428.2	428.2
55°	410.6	409.2	412.1	407.7	407.7
57.5°	394.6	393.1	393.1	391.6	391.6
60°	385.8	380.0	378.5	378.5	380.0
62.5°	381.4	371.2	369.7	369.7	371.2
65°	382.9	366.8	361.0	359.5	358.0
67°	384.3	361.0	349.3	343.4	342.0
67.5°	385.8	358.0	344.9	339.0	336.1
70°	377.0	337.6	318.6	308.3	305.4
72.5°	355.1	312.7	289.3	276.2	273.3
75°	315.7	283.5	263.0	248.4	242.6
77.5°	244.0	229.4	222.1	213.4	210.4
80°	190.0	182.7	179.7	173.9	172.4
82.5°	157.8	150.5	146.1	138.8	134.4
85°	122.8	114.0	111.1	105.2	102.3
87.5°	80.4	76.0	74.5	67.2	64.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)