

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: P158680

Luminaire Tested: **VST-E06-LED-E-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158680
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E06-LED-E-U-SL4
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (126) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17405.6 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.5
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

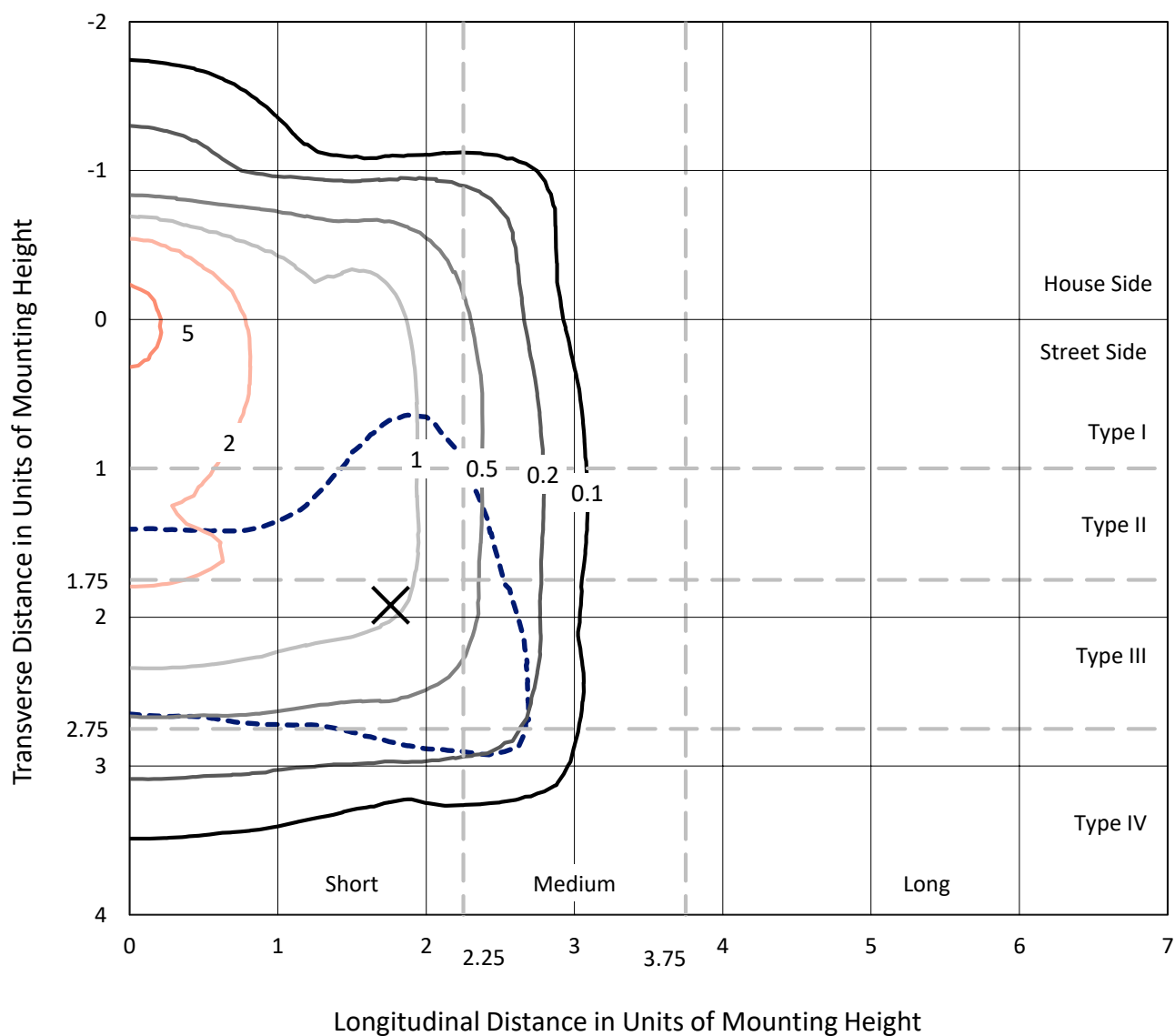


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

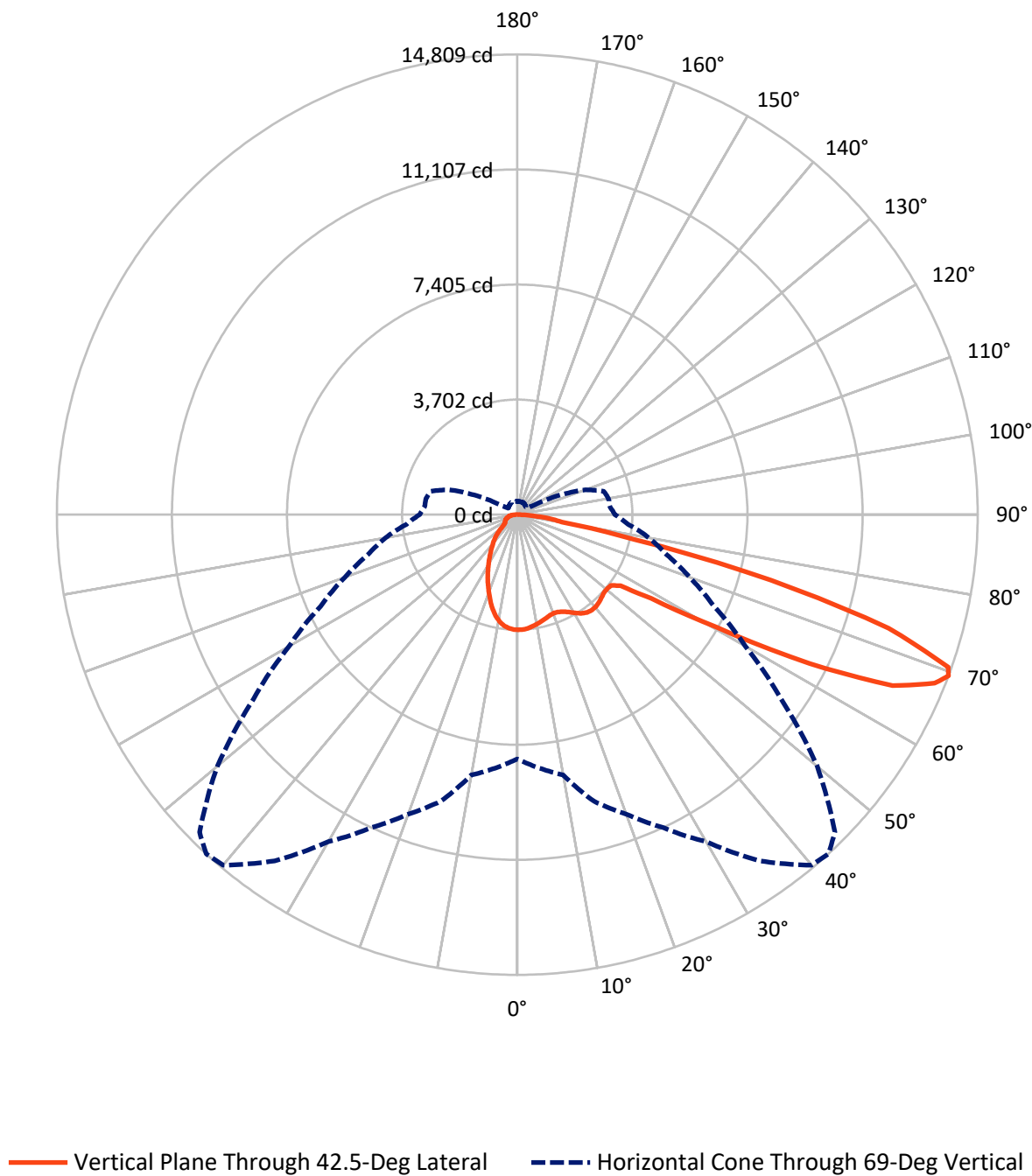


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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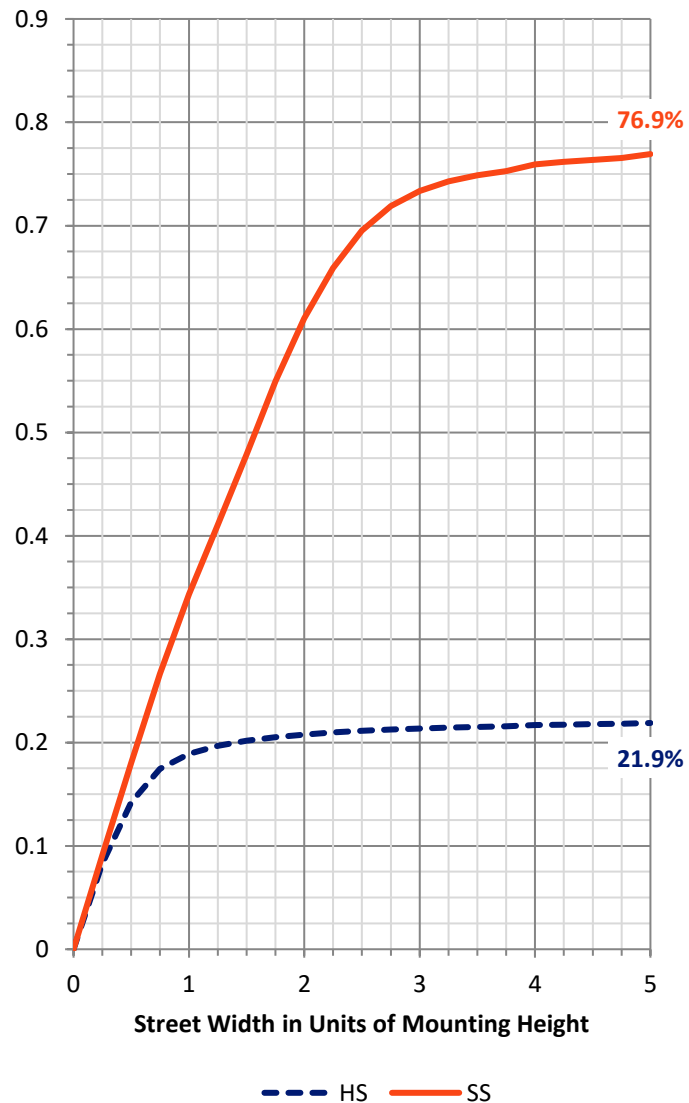
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3869.5	0.0	3869.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	13536.1	0.0	13536.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	17405.6	0.0	17405.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	2.0
10°-20°	930.0	5.3
20°-30°	1356.1	7.8
30°-40°	1728.8	9.9
40°-50°	2011.5	11.6
50°-60°	3060.4	17.6
60°-70°	5406.1	31.1
70°-80°	2230.9	12.8
80°-90°	336.8	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°	17405.6	100.0
0°-180°	17405.6	100.0

Coefficient of Utilization



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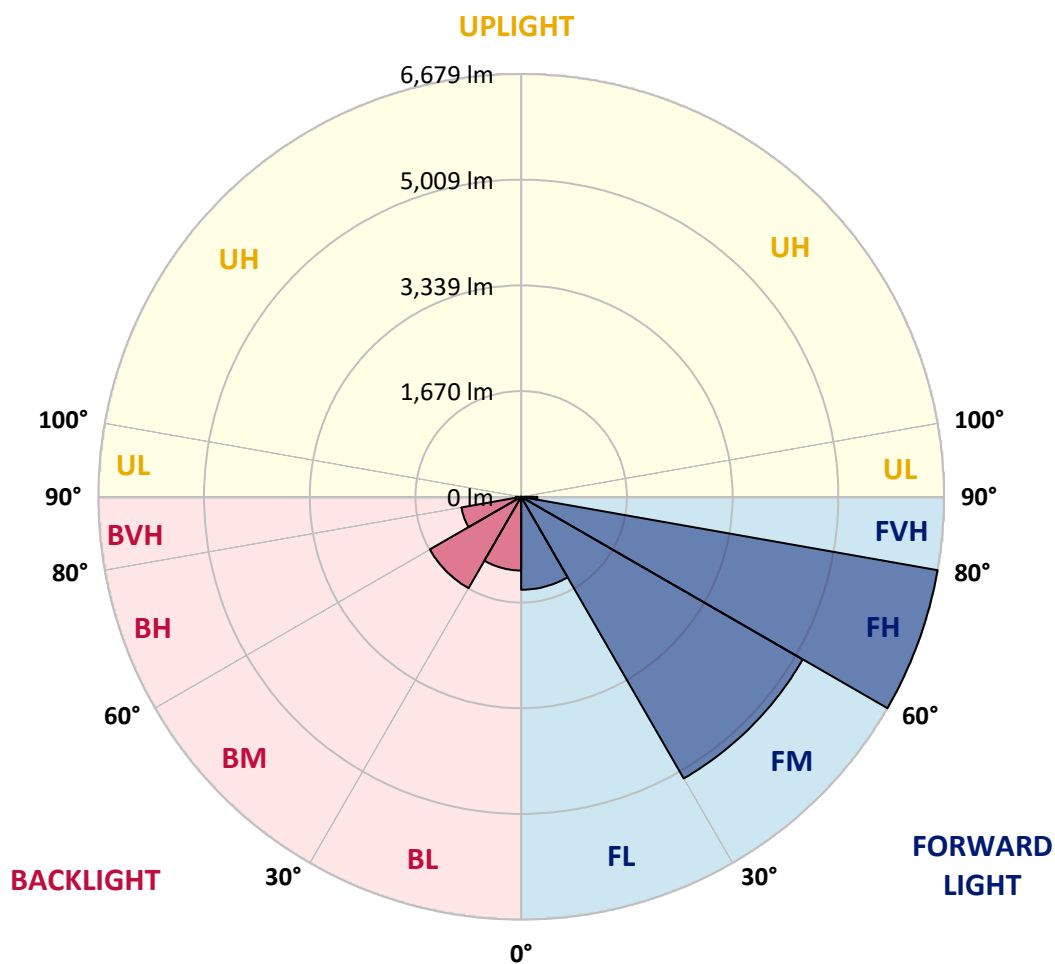
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1467.7	8.4			
FM	(30°-60°)	5135.1	29.5			
FH	(60°-80°)	6678.5	38.4			G3/7500
FVH	(80°-90°)	254.7	1.5			G3/500
BL	(0°-30°)	1163.4	6.7	B3/2500		
BM	(30°-60°)	1665.5	9.6	B2/2500		
BH	(60°-80°)	958.5	5.5	B2/1000		G2/1000
BVH	(80°-90°)	82.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8
2.5°	3694.8	3708.0	3703.2	3703.2	3706.8	3700.8	3700.8	3703.2	3697.2	3700.8	3699.6
5°	3681.6	3688.8	3686.4	3686.4	3686.4	3681.6	3679.2	3678.0	3669.6	3669.6	3666.0
7.5°	3652.8	3655.2	3658.8	3654.0	3652.8	3651.6	3643.2	3638.4	3628.8	3620.4	3622.8
10°	3614.4	3613.2	3619.2	3615.6	3610.8	3607.2	3600.0	3591.6	3580.8	3570.0	3568.8
12.5°	3571.2	3570.0	3574.8	3572.4	3568.8	3561.6	3555.6	3541.2	3524.4	3511.2	3510.0
15°	3543.6	3540.0	3544.8	3540.0	3534.0	3526.8	3516.0	3498.0	3468.0	3454.8	3444.0
17.5°	3570.0	3564.0	3566.4	3560.4	3552.0	3532.8	3507.6	3469.2	3426.0	3403.2	3386.4
20°	3662.4	3651.6	3654.0	3648.0	3628.8	3603.6	3555.6	3488.4	3415.2	3378.0	3351.6
22.5°	3794.4	3786.0	3789.6	3783.6	3764.4	3726.0	3654.0	3558.0	3453.6	3399.6	3357.6
25°	3994.8	4002.0	4004.4	3976.8	3966.0	3895.2	3795.6	3662.4	3523.2	3459.6	3402.0
27.5°	4220.4	4220.4	4231.2	4220.4	4198.8	4116.0	3975.6	3814.8	3636.0	3549.6	3480.0
30°	4440.0	4437.6	4458.0	4455.6	4420.8	4327.2	4167.6	3972.0	3768.0	3670.8	3582.0
32.5°	4672.8	4680.0	4693.2	4688.4	4642.8	4513.2	4321.2	4108.8	3894.0	3787.2	3687.6
35°	4924.8	4928.4	4933.2	4930.8	4838.4	4675.2	4434.0	4196.4	3973.2	3867.6	3764.4
37.5°	5176.8	5173.2	5167.2	5115.6	5010.0	4783.2	4502.4	4246.8	4012.8	3898.8	3792.0
40°	5402.4	5382.0	5362.8	5282.4	5120.4	4844.4	4528.8	4258.8	4009.2	3891.6	3787.2
42.5°	5526.0	5503.2	5463.6	5362.8	5166.0	4850.4	4510.8	4222.8	3972.0	3855.6	3752.4
45°	5548.8	5532.0	5493.6	5380.8	5155.2	4812.0	4455.6	4164.0	3916.8	3800.4	3703.2
47.5°	5494.8	5481.6	5444.4	5332.8	5108.4	4754.4	4392.0	4101.6	3862.8	3753.6	3660.0
50°	5412.0	5400.0	5371.2	5269.2	5055.6	4714.8	4359.6	4069.2	3844.8	3745.2	3658.8
52.5°	5546.4	5556.0	5472.0	5360.4	5112.0	4749.6	4395.6	4102.8	3877.2	3778.8	3688.8
55°	7635.6	7622.4	7117.2	6693.6	5936.4	5250.0	4737.6	4369.2	4128.0	4029.6	3945.6
57.5°	9921.6	9876.0	9668.4	9272.4	8458.8	7372.8	6385.2	5545.2	5214.0	5072.4	5082.0
60°	10668.0	10684.8	10640.4	10500.0	10208.4	9643.2	8892.0	8260.8	7639.2	7335.6	7370.4
62.5°	11082.0	11112.0	11150.4	11119.2	11024.4	10893.6	10798.8	10856.4	10770.0	10551.6	10377.6
65°	11139.6	11200.8	11328.0	11428.8	11478.0	11601.6	11892.0	12588.0	13224.0	13266.0	12960.0
67.5°	9999.6	10168.8	10444.8	10911.6	11311.2	11750.4	12451.2	13509.6	14448.0	14479.2	14193.6
69°	7862.4	8187.6	8510.4	9553.2	10255.2	11115.6	12152.4	13598.4	14722.8	14809.2	14449.2
70°	6300.0	6493.2	6771.6	7819.2	8868.0	9964.8	11467.2	13305.6	14534.4	14708.4	14311.2
72.5°	3782.4	3856.8	3952.8	4328.4	4868.4	5845.2	7837.2	10848.0	12260.4	12493.2	11988.0
75°	2445.6	2440.8	2449.2	2553.6	2584.8	2772.0	3399.6	5581.2	7998.0	8420.4	7815.6
77.5°	1842.0	1858.8	1832.4	1842.0	1833.6	1884.0	1903.2	1998.0	3157.2	3889.2	3477.6
80°	1626.0	1634.4	1635.6	1630.8	1572.0	1567.2	1598.4	1544.4	1435.2	1456.8	1395.6
82.5°	927.6	926.4	937.2	1018.8	1052.4	1162.8	1208.4	1233.6	1138.8	1068.0	966.0
85°	601.2	606.0	618.0	643.2	618.0	627.6	616.8	638.4	585.6	543.6	486.0
87.5°	246.0	246.0	261.6	284.4	265.2	260.4	223.2	220.8	187.2	169.2	132.0
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°	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8
2.5°	3692.4	3699.6	3696.0	3700.8	3697.2	3697.2	3692.4	3691.2	3694.8	3690.0	3691.2
5°	3660.0	3661.2	3655.2	3657.6	3650.4	3648.0	3644.4	3634.8	3640.8	3634.8	3637.2
7.5°	3613.2	3609.6	3601.2	3589.2	3580.8	3577.2	3570.0	3556.8	3559.2	3548.4	3554.4
10°	3553.2	3541.2	3526.8	3508.8	3496.8	3486.0	3470.4	3454.8	3446.4	3436.8	3435.6
12.5°	3486.0	3471.6	3452.4	3424.8	3398.4	3380.4	3356.4	3328.8	3320.4	3304.8	3296.4
15°	3412.8	3390.0	3367.2	3336.0	3307.2	3279.6	3247.2	3212.4	3189.6	3165.6	3147.6
17.5°	3346.8	3320.4	3290.4	3260.4	3229.2	3195.6	3154.8	3111.6	3078.0	3033.6	2997.6
20°	3295.2	3261.6	3231.6	3200.4	3165.6	3124.8	3075.6	3020.4	2964.0	2914.8	2872.8
22.5°	3274.8	3222.0	3186.0	3154.8	3120.0	3072.0	3012.0	2947.2	2878.8	2810.4	2755.2
25°	3291.6	3213.6	3157.2	3120.0	3090.0	3040.8	2973.6	2894.4	2815.2	2733.6	2659.2
27.5°	3340.8	3241.2	3159.6	3100.8	3066.0	3016.8	2946.0	2862.0	2768.4	2677.2	2586.0
30°	3417.6	3288.0	3184.8	3102.0	3048.0	2991.6	2917.2	2820.0	2725.2	2620.8	2521.2
32.5°	3492.0	3337.2	3213.6	3106.8	3024.0	2950.8	2868.0	2772.0	2670.0	2560.8	2457.6
35°	3544.8	3369.6	3224.4	3096.0	2986.8	2895.6	2806.8	2710.8	2611.2	2499.6	2394.0
37.5°	3570.0	3387.6	3225.6	3067.2	2937.6	2836.8	2742.0	2647.2	2553.6	2448.0	2348.4
40°	3568.8	3386.4	3208.8	3030.0	2878.8	2772.0	2678.4	2586.0	2498.4	2406.0	2316.0
42.5°	3542.4	3367.2	3184.8	2994.0	2836.8	2718.0	2620.8	2532.0	2457.6	2376.0	2300.4
45°	3501.6	3334.8	3159.6	2977.2	2824.8	2706.0	2602.8	2516.4	2450.4	2376.0	2311.2
47.5°	3470.4	3316.8	3163.2	3007.2	2862.0	2738.4	2629.2	2534.4	2478.0	2418.0	2372.4
50°	3475.2	3325.2	3175.2	3025.2	2888.4	2763.6	2658.0	2571.6	2530.8	2515.2	2504.4
52.5°	3500.4	3338.4	3211.2	3121.2	3074.4	2980.8	2918.4	2864.4	2894.4	2835.6	2766.0
55°	3822.0	3769.2	3892.8	4009.2	4156.8	4212.0	4159.2	4149.6	4197.6	3998.4	3541.2
57.5°	5150.4	5287.2	5478.0	5578.8	5701.2	5668.8	5546.4	5444.4	5324.4	5091.6	4521.6
60°	7410.0	7306.8	7220.4	6976.8	6777.6	6544.8	6285.6	6063.6	5851.2	5516.4	4899.6
62.5°	9738.0	9021.6	8422.8	7844.4	7378.8	6992.4	6616.8	6283.2	5961.6	5494.8	4831.2
65°	11751.6	10243.2	9118.8	8270.4	7590.0	7003.2	6520.8	6060.0	5650.8	5103.6	4447.2
67.5°	12656.4	10766.4	9130.8	7915.2	6973.2	6176.4	5552.4	4856.4	4398.0	4047.6	3678.0
69°	12589.2	10366.8	8479.2	6982.8	5900.4	4971.6	4302.0	3576.0	3136.8	2988.0	2979.6
70°	12270.0	9690.0	7718.4	6225.6	4987.2	4064.4	3422.4	2770.8	2361.6	2259.6	2440.8
72.5°	10017.6	6847.2	4837.2	3693.6	2840.4	2245.2	1831.2	1453.2	1160.4	1005.6	1039.2
75°	5658.0	3170.4	2049.6	1549.2	1309.2	1082.4	928.8	792.0	716.4	582.0	460.8
77.5°	2056.8	1360.8	1082.4	936.0	663.6	457.2	382.8	334.8	303.6	303.6	289.2
80°	1300.8	1024.8	715.2	489.6	362.4	315.6	276.0	242.4	223.2	218.4	223.2
82.5°	812.4	627.6	400.8	307.2	258.0	231.6	201.6	176.4	160.8	157.2	164.4
85°	400.8	310.8	243.6	217.2	204.0	189.6	166.8	142.8	138.0	147.6	172.8
87.5°	120.0	106.8	87.6	91.2	96.0	93.6	74.4	64.8	61.2	80.4	126.0
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°	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8	3706.8
2.5°	3693.6	3692.4	3694.8	3691.2	3693.6	3694.8	3692.4	3703.2	3696.0	3697.2	3702.0
5°	3639.6	3637.2	3646.8	3644.4	3649.2	3654.0	3651.6	3667.2	3661.2	3666.0	3675.6
7.5°	3549.6	3554.4	3555.6	3555.6	3565.2	3580.8	3584.4	3594.0	3594.0	3607.2	3616.8
10°	3429.6	3430.8	3438.0	3436.8	3448.8	3465.6	3468.0	3484.8	3490.8	3512.4	3525.6
12.5°	3290.4	3284.4	3283.2	3282.0	3297.6	3315.6	3318.0	3346.8	3358.8	3378.0	3399.6
15°	3134.4	3118.8	3114.0	3123.6	3120.0	3130.8	3141.6	3157.2	3174.0	3212.4	3231.6
17.5°	2982.0	2950.8	2942.4	2931.6	2920.8	2920.8	2925.6	2944.8	2979.6	3000.0	3043.2
20°	2826.0	2788.8	2758.8	2730.0	2704.8	2695.2	2696.4	2720.4	2745.6	2779.2	2820.0
22.5°	2695.2	2638.8	2587.2	2548.8	2497.2	2496.0	2488.8	2496.0	2523.6	2532.0	2554.8
25°	2582.4	2506.8	2437.2	2374.8	2324.4	2298.0	2290.8	2288.4	2275.2	2271.6	2254.8
27.5°	2494.8	2403.6	2313.6	2238.0	2175.6	2139.6	2094.0	2061.6	2014.8	2002.8	1972.8
30°	2422.8	2324.4	2226.0	2127.6	2056.8	1992.0	1915.2	1858.8	1786.8	1740.0	1699.2
32.5°	2353.2	2253.6	2154.0	2056.8	1947.6	1846.8	1746.0	1658.4	1578.0	1506.0	1446.0
35°	2295.6	2200.8	2100.0	1982.4	1843.2	1698.0	1576.8	1477.2	1366.8	1291.2	1215.6
37.5°	2258.4	2172.0	2071.2	1909.2	1730.4	1574.4	1436.4	1315.2	1202.4	1088.4	1003.2
40°	2241.6	2166.0	2040.0	1842.0	1632.0	1459.2	1306.8	1172.4	1028.4	900.0	808.8
42.5°	2240.4	2163.6	1996.8	1767.6	1550.4	1362.0	1192.8	1032.0	872.4	740.4	650.4
45°	2262.0	2160.0	1951.2	1705.2	1478.4	1281.6	1080.0	884.4	705.6	607.2	559.2
47.5°	2319.6	2166.0	1914.0	1647.6	1410.0	1184.4	950.4	722.4	574.8	529.2	529.2
50°	2422.8	2200.8	1904.4	1606.8	1341.6	1071.6	792.0	583.2	508.8	508.8	523.2
52.5°	2581.2	2274.0	1921.2	1578.0	1256.4	922.8	624.0	502.8	488.4	501.6	520.8
55°	2946.0	2403.6	1944.0	1528.8	1126.8	732.0	514.8	475.2	481.2	496.8	514.8
57.5°	3615.6	2680.8	1968.0	1420.8	918.0	564.0	466.8	464.4	475.2	489.6	505.2
60°	4056.0	3033.6	2029.2	1257.6	694.8	465.6	442.8	457.2	470.4	482.4	494.4
62.5°	4056.0	3133.2	2074.8	1075.2	522.0	423.6	427.2	450.0	465.6	471.6	478.8
65°	3796.8	2950.8	1920.0	876.0	424.8	399.6	412.8	435.6	450.0	454.8	460.8
67.5°	3318.0	2606.4	1617.6	660.0	379.2	379.2	396.0	412.8	424.8	434.4	444.0
69°	2884.8	2338.8	1424.4	559.2	361.2	363.6	380.4	394.8	409.2	421.2	433.2
70°	2572.8	2138.4	1290.0	507.6	350.4	351.6	368.4	384.0	397.2	410.4	424.8
72.5°	1377.6	1477.2	980.4	416.4	322.8	326.4	342.0	356.4	368.4	381.6	394.8
75°	469.2	634.8	624.0	340.8	291.6	301.2	310.8	324.0	339.6	348.0	355.2
77.5°	274.8	284.4	332.4	277.2	262.8	267.6	278.4	289.2	302.4	310.8	316.8
80°	230.4	229.2	230.4	225.6	229.2	240.0	247.2	261.6	273.6	276.0	274.8
82.5°	187.2	196.8	198.0	195.6	206.4	214.8	220.8	229.2	228.0	230.4	235.2
85°	166.8	165.6	174.0	175.2	175.2	169.2	170.4	170.4	170.4	174.0	175.2
87.5°	166.8	139.2	108.0	97.2	102.0	96.0	91.2	90.0	99.6	109.2	106.8
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°	3706.8	3706.8	3706.8	3706.8	3706.8
2.5°	3704.4	3708.0	3705.6	3705.6	3708.0
5°	3679.2	3685.2	3682.8	3685.2	3685.2
7.5°	3621.6	3630.0	3636.0	3642.0	3638.4
10°	3538.8	3553.2	3562.8	3570.0	3566.4
12.5°	3415.2	3428.4	3448.8	3460.8	3451.2
15°	3246.0	3283.2	3295.2	3312.0	3302.4
17.5°	3069.6	3092.4	3106.8	3122.4	3132.0
20°	2834.4	2852.4	2871.6	2878.8	2868.0
22.5°	2551.2	2560.8	2557.2	2568.0	2546.4
25°	2240.4	2246.4	2242.8	2252.4	2234.4
27.5°	1946.4	1945.2	1946.4	1934.4	1922.4
30°	1663.2	1652.4	1647.6	1629.6	1626.0
32.5°	1410.0	1372.8	1353.6	1327.2	1321.2
35°	1156.8	1104.0	1069.2	1039.2	1026.0
37.5°	930.0	866.4	825.6	799.2	795.6
40°	735.6	676.8	648.0	633.6	631.2
42.5°	600.0	574.8	567.6	567.6	567.6
45°	547.2	546.0	552.0	556.8	558.0
47.5°	536.4	543.6	552.0	559.2	561.6
50°	536.4	543.6	549.6	556.8	559.2
52.5°	534.0	540.0	542.4	547.2	549.6
55°	526.8	530.4	530.4	532.8	535.2
57.5°	514.8	517.2	513.6	516.0	522.0
60°	502.8	505.2	499.2	505.2	508.8
62.5°	489.6	490.8	488.4	493.2	493.2
65°	468.0	465.6	469.2	472.8	474.0
67.5°	446.4	440.4	444.0	445.2	447.6
69°	429.6	426.0	427.2	429.6	432.0
70°	417.6	415.2	417.6	421.2	424.8
72.5°	387.6	388.8	397.2	404.4	411.6
75°	360.0	368.4	379.2	394.8	403.2
77.5°	326.4	332.4	340.8	357.6	373.2
80°	282.0	285.6	286.8	292.8	291.6
82.5°	229.2	225.6	223.2	220.8	219.6
85°	164.4	163.2	153.6	146.4	146.4
87.5°	98.4	93.6	88.8	82.8	79.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)