

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: P158704

Luminaire Tested: **VST-F08-LED-E-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158704
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-F08-LED-E-U-SL4-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (56) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17498.3 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 204.4
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



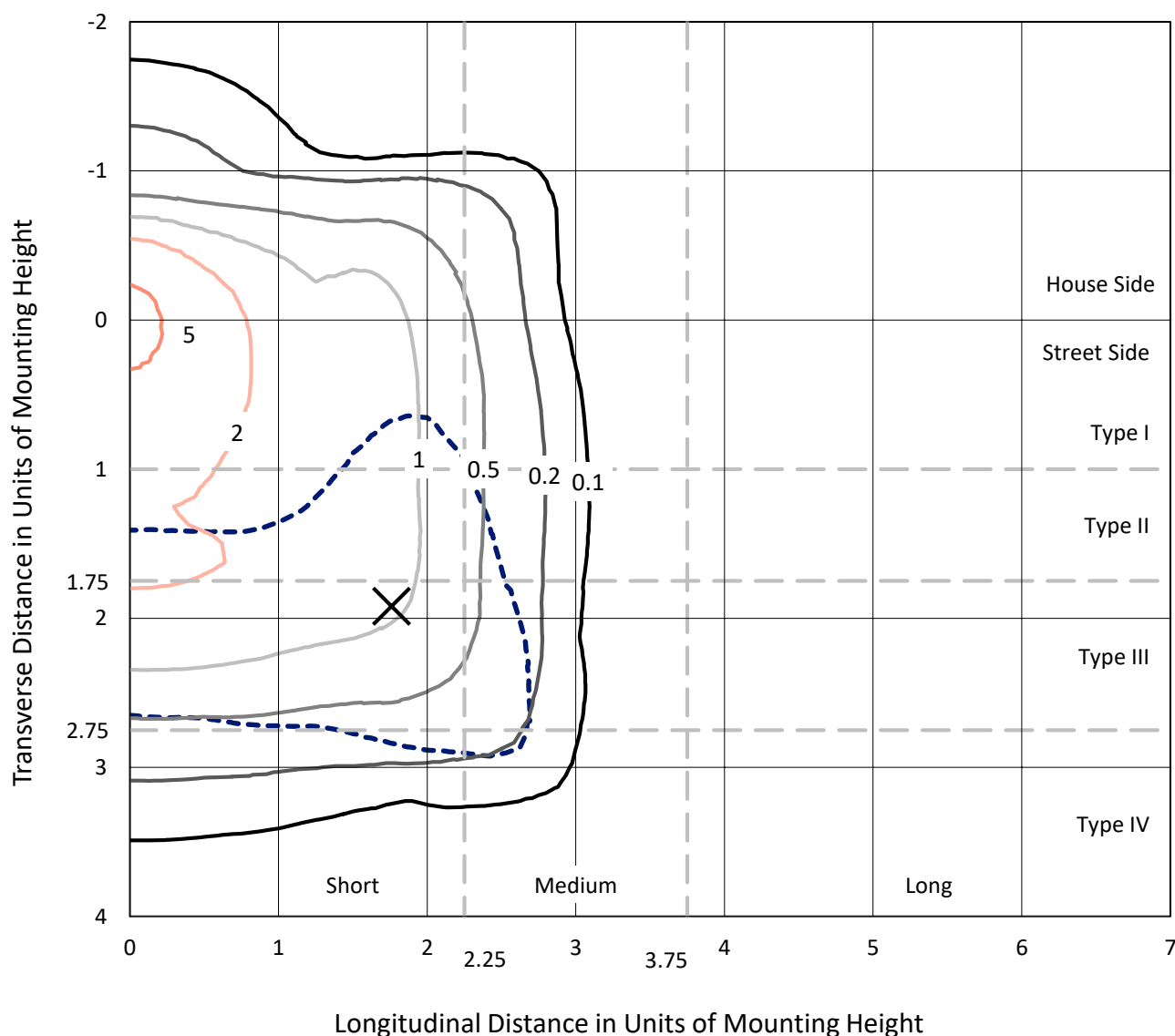
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

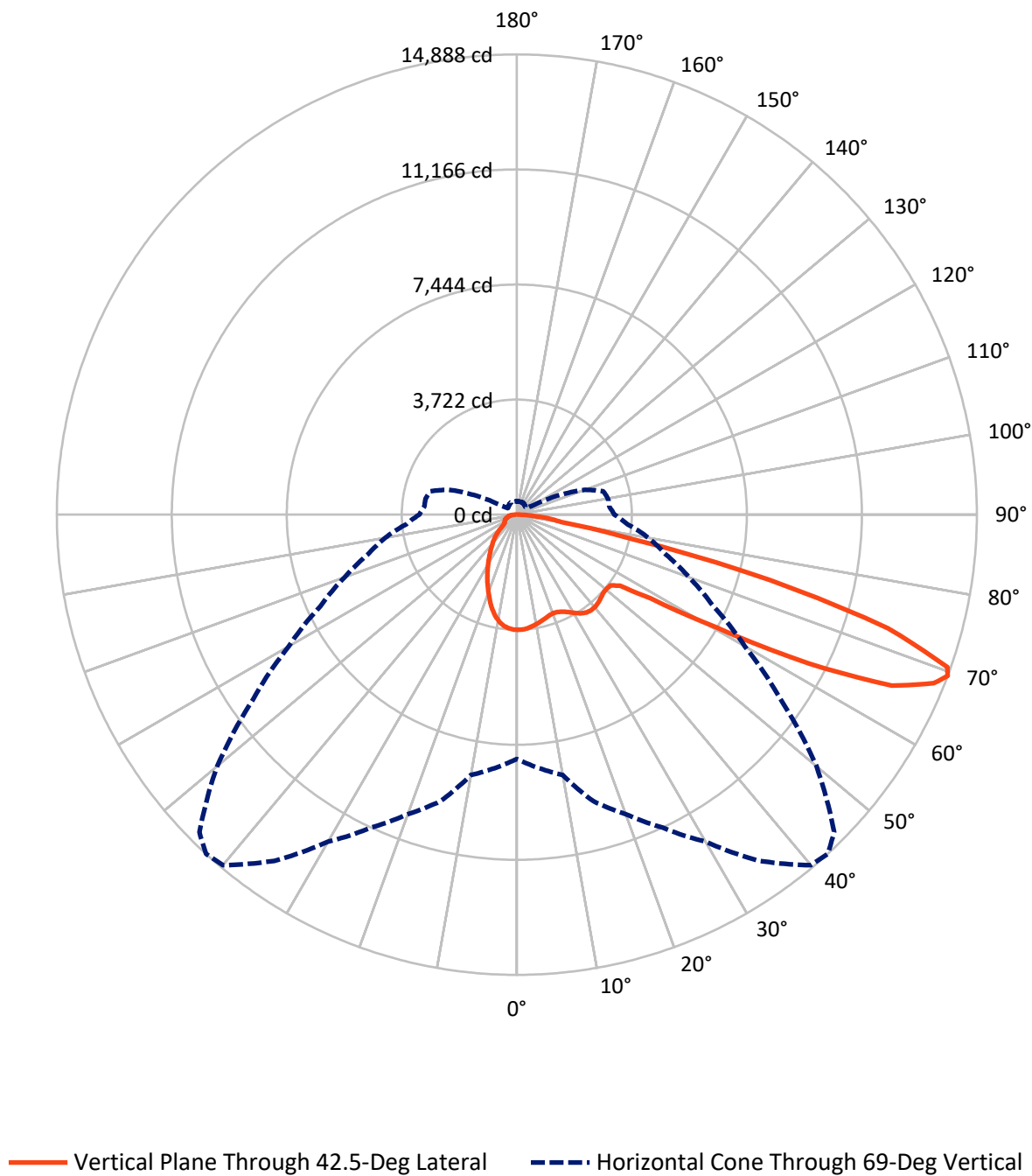


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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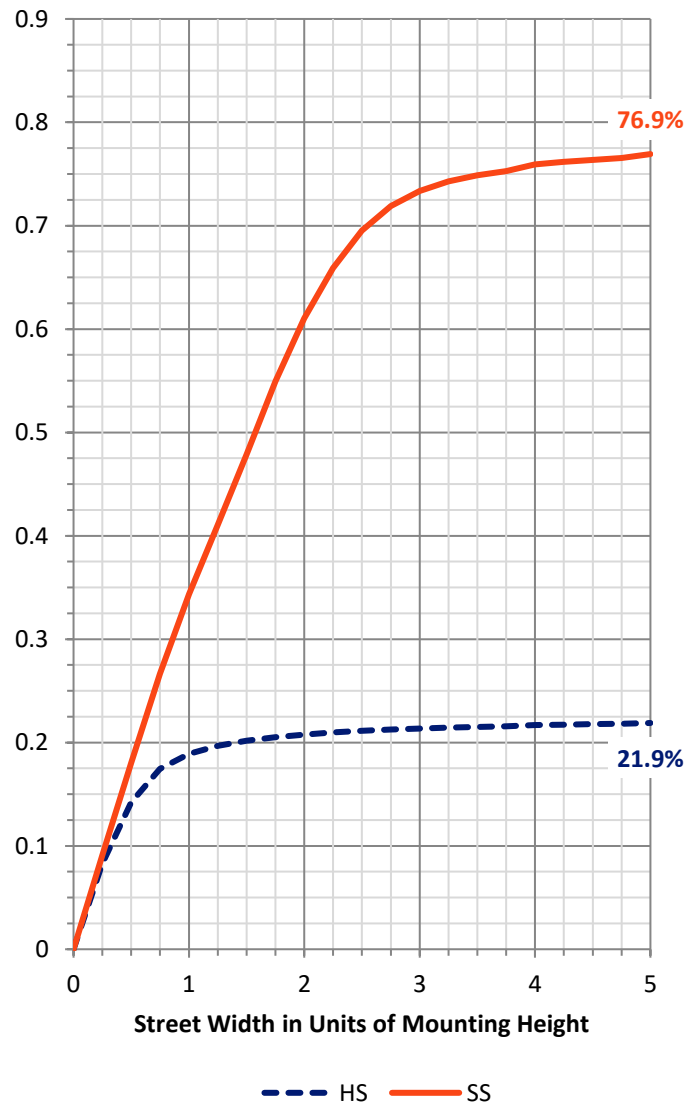
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3890.1	0.0	3890.1
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	13608.1	0.0	13608.1
	% Fixture	77.8	0.0	77.8
Total	Lumens	17498.3	0.0	17498.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.9	2.0
10°-20°	934.9	5.3
20°-30°	1363.3	7.8
30°-40°	1738.0	9.9
40°-50°	2022.2	11.6
50°-60°	3076.7	17.6
60°-70°	5434.9	31.1
70°-80°	2242.8	12.8
80°-90°	338.6	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°	17498.3	100.0
0°-180°	17498.3	100.0

Coefficient of Utilization



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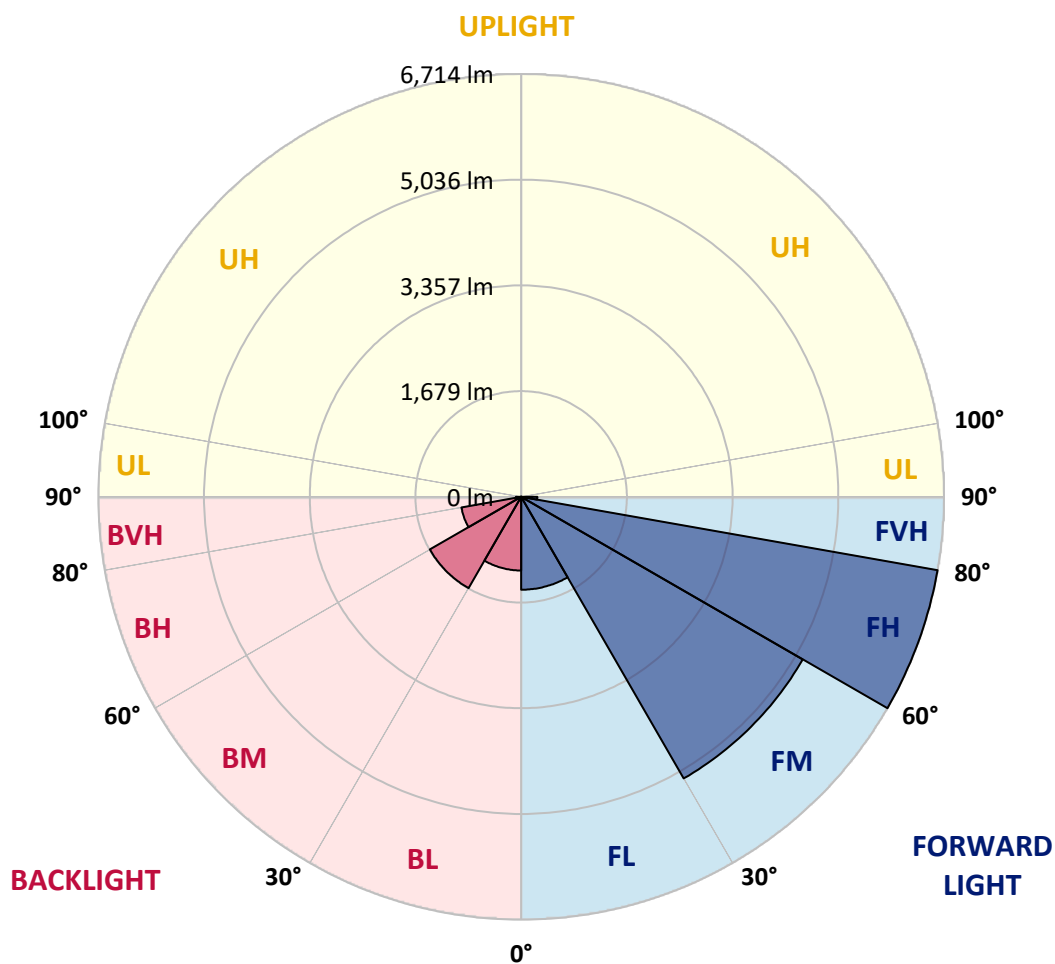
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1475.5	8.4			
FM	(30°-60°)	5162.4	29.5			
FH	(60°-80°)	6714.1	38.4			G3/7500
FVH	(80°-90°)	256.1	1.5			G3/500
BL	(0°-30°)	1169.6	6.7	B3/2500		
BM	(30°-60°)	1674.4	9.6	B2/2500		
BH	(60°-80°)	963.6	5.5	B2/1000		G2/1000
BVH	(80°-90°)	82.6	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°	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5
2.5°	3714.5	3727.7	3722.9	3722.9	3726.5	3720.5	3720.5	3722.9	3716.9	3720.5	3719.3
5°	3701.2	3708.4	3706.0	3706.0	3706.0	3701.2	3698.8	3697.6	3689.1	3689.1	3685.5
7.5°	3672.2	3674.7	3678.3	3673.5	3672.2	3671.0	3662.6	3657.8	3648.1	3639.7	3642.1
10°	3633.6	3632.4	3638.5	3634.9	3630.0	3626.4	3619.2	3610.7	3599.9	3589.0	3587.8
12.5°	3590.2	3589.0	3593.8	3591.4	3587.8	3580.6	3574.5	3560.1	3543.2	3529.9	3528.7
15°	3562.5	3558.8	3563.7	3558.8	3552.8	3545.6	3534.7	3516.6	3486.5	3473.2	3462.3
17.5°	3589.0	3583.0	3585.4	3579.4	3570.9	3551.6	3526.3	3487.7	3444.2	3421.3	3404.4
20°	3681.9	3671.0	3673.5	3667.4	3648.1	3622.8	3574.5	3507.0	3433.4	3396.0	3369.4
22.5°	3814.6	3806.2	3809.8	3803.7	3784.4	3745.8	3673.5	3576.9	3472.0	3417.7	3375.5
25°	4016.1	4023.3	4025.7	3998.0	3987.1	3915.9	3815.8	3681.9	3542.0	3478.0	3420.1
27.5°	4242.9	4242.9	4253.7	4242.9	4221.2	4137.9	3996.8	3835.1	3655.4	3568.5	3498.5
30°	4463.6	4461.2	4481.7	4479.3	4444.3	4350.2	4189.8	3993.1	3788.1	3690.3	3601.1
32.5°	4697.7	4704.9	4718.2	4713.4	4667.5	4537.2	4344.2	4130.7	3914.7	3807.4	3707.2
35°	4951.0	4954.6	4959.5	4957.1	4864.2	4700.1	4457.6	4218.7	3994.4	3888.2	3784.4
37.5°	5204.4	5200.7	5194.7	5142.8	5036.7	4808.7	4526.4	4269.4	4034.2	3919.6	3812.2
40°	5431.2	5410.7	5391.4	5310.5	5147.7	4870.2	4552.9	4281.5	4030.5	3912.3	3807.4
42.5°	5555.4	5532.5	5492.7	5391.4	5193.5	4876.2	4534.8	4245.3	3993.1	3876.1	3772.4
45°	5578.3	5561.5	5522.9	5409.5	5182.6	4837.6	4479.3	4186.2	3937.7	3820.6	3722.9
47.5°	5524.1	5510.8	5473.4	5361.2	5135.6	4779.7	4415.4	4123.4	3883.4	3773.6	3679.5
50°	5440.8	5428.8	5399.8	5297.3	5082.5	4739.9	4382.8	4090.9	3865.3	3765.1	3678.3
52.5°	5575.9	5585.6	5501.1	5388.9	5139.2	4774.9	4419.0	4124.6	3897.8	3798.9	3708.4
55°	7676.3	7663.0	7155.1	6729.2	5968.0	5278.0	4762.8	4392.5	4150.0	4051.1	3966.6
57.5°	9974.4	9928.6	9719.9	9321.8	8503.8	7412.1	6419.2	5574.7	5241.8	5099.4	5109.1
60°	10724.8	10741.7	10697.1	10555.9	10262.8	9694.5	8939.3	8304.8	7679.9	7374.7	7409.6
62.5°	11141.0	11171.2	11209.8	11178.4	11083.1	10951.6	10856.3	10914.2	10827.3	10607.8	10432.9
65°	11198.9	11260.4	11388.3	11489.7	11539.1	11663.4	11955.3	12655.0	13294.4	13336.6	13029.0
67.5°	10052.8	10222.9	10500.4	10969.7	11371.4	11813.0	12517.5	13581.5	14524.9	14556.3	14269.2
69°	7904.3	8231.2	8555.7	9604.1	10309.8	11174.8	12217.1	13670.8	14801.2	14888.1	14526.1
70°	6333.5	6527.8	6807.7	7860.8	8915.2	10017.9	11528.3	13376.4	14611.8	14786.7	14387.4
72.5°	3802.5	3877.3	3973.8	4351.4	4894.3	5876.3	7878.9	10905.8	12325.7	12559.7	12051.8
75°	2458.6	2453.8	2462.2	2567.2	2598.6	2786.8	3417.7	5610.9	8040.6	8465.2	7857.2
77.5°	1851.8	1868.7	1842.2	1851.8	1843.4	1894.0	1913.3	2008.6	3174.0	3909.9	3496.1
80°	1634.7	1643.1	1644.3	1639.5	1580.4	1575.5	1606.9	1552.6	1442.8	1464.6	1403.0
82.5°	932.5	931.3	942.2	1024.2	1058.0	1169.0	1214.8	1240.2	1144.9	1073.7	971.1
85°	604.4	609.2	621.3	646.6	621.3	630.9	620.1	641.8	588.7	546.5	488.6
87.5°	247.3	247.3	263.0	285.9	266.6	261.8	224.4	222.0	188.2	170.1	132.7
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°	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5
2.5°	3712.1	3719.3	3715.7	3720.5	3716.9	3716.9	3712.1	3710.9	3714.5	3709.6	3710.9
5°	3679.5	3680.7	3674.7	3677.1	3669.8	3667.4	3663.8	3654.2	3660.2	3654.2	3656.6
7.5°	3632.4	3628.8	3620.4	3608.3	3599.9	3596.2	3589.0	3575.7	3578.2	3567.3	3573.3
10°	3572.1	3560.1	3545.6	3527.5	3515.4	3504.6	3488.9	3473.2	3464.8	3455.1	3453.9
12.5°	3504.6	3490.1	3470.8	3443.0	3416.5	3398.4	3374.3	3346.5	3338.1	3322.4	3314.0
15°	3431.0	3408.1	3385.1	3353.8	3324.8	3297.1	3264.5	3229.5	3206.6	3182.5	3164.4
17.5°	3364.6	3338.1	3307.9	3277.8	3246.4	3212.6	3171.6	3128.2	3094.4	3049.8	3013.6
20°	3312.7	3279.0	3248.8	3217.4	3182.5	3141.4	3092.0	3036.5	2979.8	2930.3	2888.1
22.5°	3292.2	3239.2	3203.0	3171.6	3136.6	3088.4	3028.0	2962.9	2894.1	2825.4	2769.9
25°	3309.1	3230.7	3174.0	3136.6	3106.5	3057.0	2989.4	2909.8	2830.2	2748.2	2673.4
27.5°	3358.6	3258.5	3176.4	3117.3	3082.3	3032.9	2961.7	2877.2	2783.1	2691.5	2599.8
30°	3435.8	3305.5	3201.8	3118.5	3064.2	3007.5	2932.7	2835.0	2739.7	2634.8	2534.6
32.5°	3510.6	3355.0	3230.7	3123.3	3040.1	2966.5	2883.3	2786.8	2684.2	2574.4	2470.7
35°	3563.7	3387.5	3241.6	3112.5	3002.7	2911.0	2821.7	2725.2	2625.1	2512.9	2406.7
37.5°	3589.0	3405.6	3242.8	3083.5	2953.2	2851.9	2756.6	2661.3	2567.2	2461.0	2360.9
40°	3587.8	3404.4	3225.9	3046.1	2894.1	2786.8	2692.7	2599.8	2511.7	2418.8	2328.3
42.5°	3561.3	3385.1	3201.8	3009.9	2851.9	2732.5	2634.8	2545.5	2470.7	2388.7	2312.6
45°	3520.2	3352.6	3176.4	2993.1	2839.8	2720.4	2616.7	2529.8	2463.4	2388.7	2323.5
47.5°	3488.9	3334.5	3180.0	3023.2	2877.2	2753.0	2643.2	2547.9	2491.2	2430.9	2385.0
50°	3493.7	3342.9	3192.1	3041.3	2903.8	2778.3	2672.2	2585.3	2544.3	2528.6	2517.7
52.5°	3519.0	3356.2	3228.3	3137.8	3090.8	2996.7	2933.9	2879.7	2909.8	2850.7	2780.7
55°	3842.4	3789.3	3913.5	4030.5	4178.9	4234.4	4181.3	4171.7	4220.0	4019.7	3560.1
57.5°	5177.8	5315.4	5507.2	5608.5	5731.6	5699.0	5575.9	5473.4	5352.8	5118.7	4545.7
60°	7449.5	7345.7	7258.8	7013.9	6813.7	6579.6	6319.1	6095.9	5882.4	5545.8	4925.7
62.5°	9789.9	9069.6	8467.6	7886.2	7418.1	7029.6	6652.0	6316.7	5993.3	5524.1	4856.9
65°	11814.2	10297.7	9167.4	8314.4	7630.4	7040.5	6555.5	6092.3	5680.9	5130.8	4470.9
67.5°	12723.8	10823.7	9179.4	7957.3	7010.3	6209.3	5582.0	4882.3	4421.4	4069.2	3697.6
69°	12656.2	10422.0	8524.3	7020.0	5931.8	4998.1	4324.9	3595.0	3153.5	3003.9	2995.5
70°	12335.3	9741.6	7759.5	6258.7	5013.8	4086.0	3440.6	2785.6	2374.2	2271.6	2453.8
72.5°	10070.9	6883.7	4863.0	3713.3	2855.5	2257.2	1841.0	1460.9	1166.6	1011.0	1044.7
75°	5688.1	3187.3	2060.5	1557.4	1316.2	1088.2	933.7	796.2	720.2	585.1	463.3
77.5°	2067.8	1368.0	1088.2	941.0	667.1	459.6	384.8	336.6	305.2	305.2	290.7
80°	1307.7	1030.3	719.0	492.2	364.3	317.3	277.5	243.7	224.4	219.6	224.4
82.5°	816.7	630.9	402.9	308.8	259.4	232.8	202.7	177.3	161.7	158.0	165.3
85°	402.9	312.5	244.9	218.4	205.1	190.6	167.7	143.6	138.7	148.4	173.7
87.5°	120.6	107.4	88.1	91.7	96.5	94.1	74.8	65.1	61.5	80.8	126.7
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°	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5	3726.5
2.5°	3713.3	3712.1	3714.5	3710.9	3713.3	3714.5	3712.1	3722.9	3715.7	3716.9	3721.7
5°	3659.0	3656.6	3666.2	3663.8	3668.6	3673.5	3671.0	3686.7	3680.7	3685.5	3695.2
7.5°	3568.5	3573.3	3574.5	3574.5	3584.2	3599.9	3603.5	3613.1	3613.1	3626.4	3636.1
10°	3447.9	3449.1	3456.3	3455.1	3467.2	3484.1	3486.5	3503.4	3509.4	3531.1	3544.4
12.5°	3307.9	3301.9	3300.7	3299.5	3315.2	3333.3	3335.7	3364.6	3376.7	3396.0	3417.7
15°	3151.1	3135.4	3130.6	3140.2	3136.6	3147.5	3158.3	3174.0	3190.9	3229.5	3248.8
17.5°	2997.9	2966.5	2958.1	2947.2	2936.4	2936.4	2941.2	2960.5	2995.5	3016.0	3059.4
20°	2841.0	2803.6	2773.5	2744.5	2719.2	2709.6	2710.8	2734.9	2760.2	2794.0	2835.0
22.5°	2709.6	2652.9	2601.0	2562.4	2510.5	2509.3	2502.1	2509.3	2537.0	2545.5	2568.4
25°	2596.2	2520.1	2450.2	2387.4	2336.8	2310.2	2303.0	2300.6	2287.3	2283.7	2266.8
27.5°	2508.1	2416.4	2325.9	2249.9	2187.2	2151.0	2105.1	2072.6	2025.5	2013.5	1983.3
30°	2435.7	2336.8	2237.9	2138.9	2067.8	2002.6	1925.4	1868.7	1796.3	1749.3	1708.2
32.5°	2365.7	2265.6	2165.5	2067.8	1958.0	1856.6	1755.3	1667.2	1586.4	1514.0	1453.7
35°	2307.8	2212.5	2111.2	1993.0	1853.0	1707.0	1585.2	1485.1	1374.1	1298.1	1222.1
37.5°	2270.4	2183.6	2082.2	1919.4	1739.6	1582.8	1444.0	1322.2	1208.8	1094.2	1008.5
40°	2253.5	2177.5	2050.9	1851.8	1640.7	1467.0	1313.8	1178.6	1033.9	904.8	813.1
42.5°	2252.3	2175.1	2007.4	1777.0	1558.7	1369.3	1199.2	1037.5	877.0	744.3	653.9
45°	2274.0	2171.5	1961.6	1714.3	1486.3	1288.4	1085.8	889.1	709.4	610.4	562.2
47.5°	2332.0	2177.5	1924.2	1656.4	1417.5	1190.7	955.5	726.2	577.9	532.0	532.0
50°	2435.7	2212.5	1914.5	1615.4	1348.7	1077.3	796.2	586.3	511.5	511.5	526.0
52.5°	2594.9	2286.1	1931.4	1586.4	1263.1	927.7	627.3	505.5	491.0	504.3	523.6
55°	2961.7	2416.4	1954.4	1536.9	1132.8	735.9	517.5	477.7	483.8	499.4	517.5
57.5°	3634.9	2695.1	1978.5	1428.4	922.9	567.0	469.3	466.9	477.7	492.2	507.9
60°	4077.6	3049.8	2040.0	1264.3	698.5	468.1	445.2	459.6	472.9	485.0	497.0
62.5°	4077.6	3149.9	2085.8	1080.9	524.8	425.9	429.5	452.4	468.1	474.1	481.3
65°	3817.0	2966.5	1930.2	880.7	427.1	401.7	415.0	437.9	452.4	457.2	463.3
67.5°	3335.7	2620.3	1626.2	663.5	381.2	381.2	398.1	415.0	427.1	436.7	446.4
69°	2900.2	2351.3	1432.0	562.2	363.1	365.5	382.4	396.9	411.4	423.4	435.5
70°	2586.5	2149.8	1296.9	510.3	352.3	353.5	370.4	386.0	399.3	412.6	427.1
72.5°	1384.9	1485.1	985.6	418.6	324.5	328.1	343.8	358.3	370.4	383.6	396.9
75°	471.7	638.2	627.3	342.6	293.2	302.8	312.5	325.7	341.4	349.9	357.1
77.5°	276.3	285.9	334.2	278.7	264.2	269.0	279.9	290.7	304.0	312.5	318.5
80°	231.6	230.4	231.6	226.8	230.4	241.3	248.5	263.0	275.1	277.5	276.3
82.5°	188.2	197.8	199.1	196.6	207.5	215.9	222.0	230.4	229.2	231.6	236.5
85°	167.7	166.5	174.9	176.1	176.1	170.1	171.3	171.3	171.3	174.9	176.1
87.5°	167.7	139.9	108.6	97.7	102.5	96.5	91.7	90.5	100.1	109.8	107.4
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°	3726.5	3726.5	3726.5	3726.5	3726.5
2.5°	3724.1	3727.7	3725.3	3725.3	3727.7
5°	3698.8	3704.8	3702.4	3704.8	3704.8
7.5°	3640.9	3649.3	3655.4	3661.4	3657.8
10°	3557.6	3572.1	3581.8	3589.0	3585.4
12.5°	3433.4	3446.7	3467.2	3479.2	3469.6
15°	3263.3	3300.7	3312.7	3329.6	3320.0
17.5°	3085.9	3108.9	3123.3	3139.0	3148.7
20°	2849.5	2867.6	2886.9	2894.1	2883.3
22.5°	2564.8	2574.4	2570.8	2581.7	2560.0
25°	2252.3	2258.4	2254.7	2264.4	2246.3
27.5°	1956.8	1955.6	1956.8	1944.7	1932.6
30°	1672.1	1661.2	1656.4	1638.3	1634.7
32.5°	1417.5	1380.1	1360.8	1334.3	1328.2
35°	1163.0	1109.9	1074.9	1044.7	1031.5
37.5°	935.0	871.0	830.0	803.5	799.8
40°	739.5	680.4	651.5	637.0	634.6
42.5°	603.2	577.9	570.6	570.6	570.6
45°	550.1	548.9	554.9	559.8	561.0
47.5°	539.3	546.5	554.9	562.2	564.6
50°	539.3	546.5	552.5	559.8	562.2
52.5°	536.8	542.9	545.3	550.1	552.5
55°	529.6	533.2	533.2	535.6	538.0
57.5°	517.5	520.0	516.3	518.7	524.8
60°	505.5	507.9	501.9	507.9	511.5
62.5°	492.2	493.4	491.0	495.8	495.8
65°	470.5	468.1	471.7	475.3	476.5
67.5°	448.8	442.7	446.4	447.6	450.0
69°	431.9	428.3	429.5	431.9	434.3
70°	419.8	417.4	419.8	423.4	427.1
72.5°	389.7	390.9	399.3	406.6	413.8
75°	361.9	370.4	381.2	396.9	405.3
77.5°	328.1	334.2	342.6	359.5	375.2
80°	283.5	287.1	288.3	294.4	293.2
82.5°	230.4	226.8	224.4	222.0	220.8
85°	165.3	164.1	154.4	147.2	147.2
87.5°	98.9	94.1	89.3	83.2	79.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)