

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: P158703

Luminaire Tested: **VST-F08-LED-E-U-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158703  
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-SL4-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (56) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16169.5 lumens  
Efficiency: N/A  
Efficacy: 79.1 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

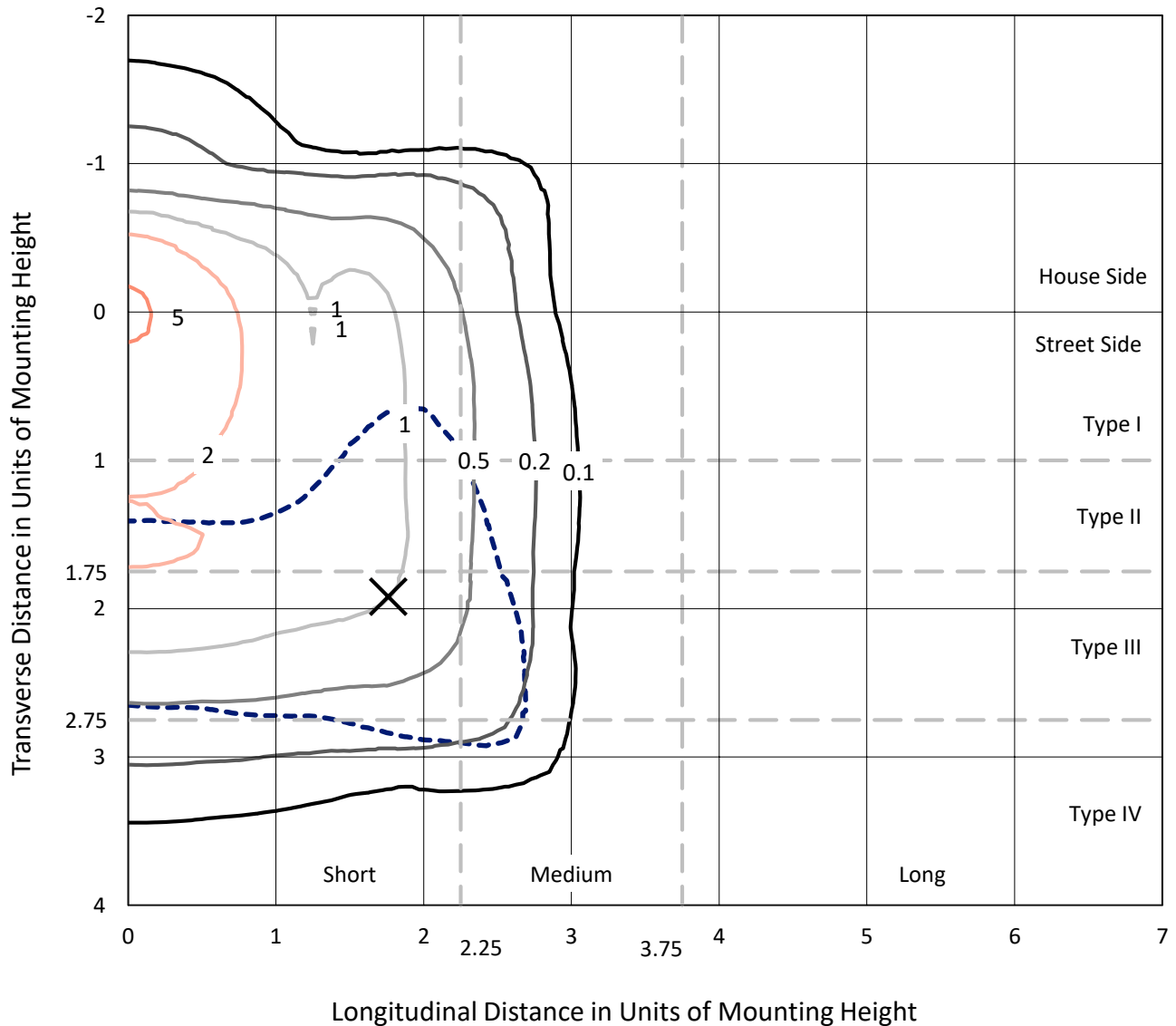
Input Watts (W): 204.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

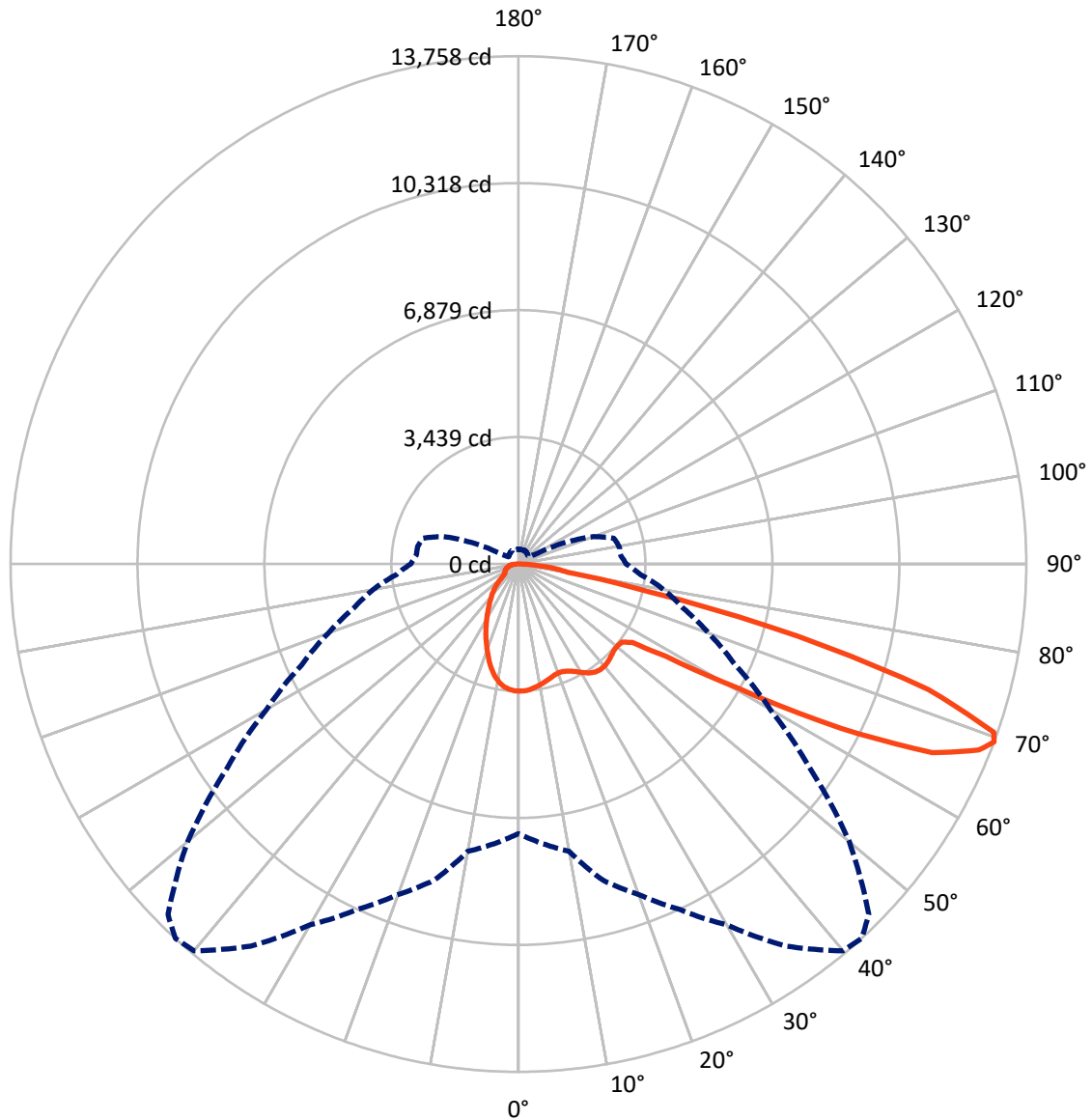
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3594.7	0.0	3594.7
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	12574.7	0.0	12574.7
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	16169.5	0.0	16169.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.5	2.0
10°-20°	863.9	5.3
20°-30°	1259.8	7.8
30°-40°	1606.0	9.9
40°-50°	1868.6	11.6
50°-60°	2843.1	17.6
60°-70°	5022.2	31.1
70°-80°	2072.4	12.8
80°-90°	312.9	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°	16169.5	100.0
0°-180°	16169.5	100.0



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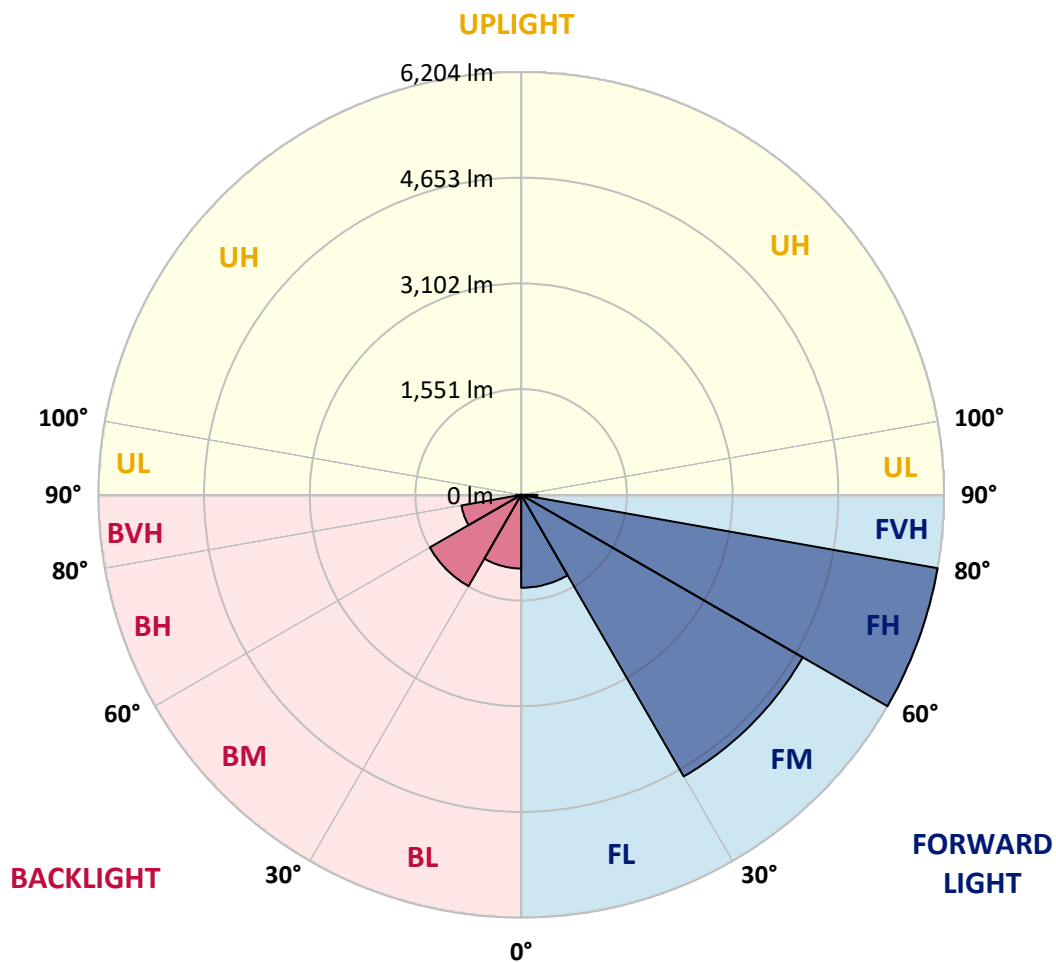
CATALOG NUMBER: VST-F08-LED-E-U-SL4-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1363.5	8.4			
FM	(30°-60°)	4770.4	29.5			
FH	(60°-80°)	6204.2	38.4			G3/7500
FVH	(80°-90°)	236.6	1.5			G3/500
BL	(0°-30°)	1080.8	6.7	B3/2500		
BM	(30°-60°)	1547.2	9.6	B2/2500		
BH	(60°-80°)	890.4	5.5	B2/1000		G2/1000
BVH	(80°-90°)	76.3	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°	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5
2.5°	3432.4	3444.7	3440.2	3440.2	3443.5	3438.0	3438.0	3440.2	3434.6	3438.0	3436.9
5°	3420.1	3426.8	3424.6	3424.6	3424.6	3420.1	3417.9	3416.8	3409.0	3409.0	3405.6
7.5°	3393.4	3395.6	3399.0	3394.5	3393.4	3392.3	3384.5	3380.0	3371.1	3363.3	3365.5
10°	3357.7	3356.6	3362.2	3358.8	3354.4	3351.0	3344.3	3336.5	3326.5	3316.5	3315.3
12.5°	3317.6	3316.5	3320.9	3318.7	3315.3	3308.7	3303.1	3289.7	3274.1	3261.8	3260.7
15°	3291.9	3288.6	3293.1	3288.6	3283.0	3276.3	3266.3	3249.6	3221.7	3209.4	3199.4
17.5°	3316.5	3310.9	3313.1	3307.5	3299.7	3281.9	3258.5	3222.8	3182.7	3161.5	3145.9
20°	3402.3	3392.3	3394.5	3388.9	3371.1	3347.7	3303.1	3240.7	3172.7	3138.1	3113.6
22.5°	3524.9	3517.1	3520.5	3514.9	3497.1	3461.4	3394.5	3305.3	3208.3	3158.2	3119.1
25°	3711.1	3717.8	3720.0	3694.4	3684.3	3618.6	3526.0	3402.3	3273.0	3213.9	3160.4
27.5°	3920.7	3920.7	3930.7	3920.7	3900.6	3823.7	3693.3	3543.9	3377.8	3297.5	3232.9
30°	4124.7	4122.4	4141.4	4139.2	4106.8	4019.9	3871.6	3689.9	3500.4	3410.1	3327.6
32.5°	4340.9	4347.6	4359.9	4355.4	4313.1	4192.7	4014.3	3817.0	3617.5	3518.2	3425.7
35°	4575.0	4578.4	4582.8	4580.6	4494.8	4343.2	4119.1	3898.4	3691.0	3592.9	3497.1
37.5°	4809.1	4805.8	4800.2	4752.3	4654.2	4443.5	4182.6	3945.2	3727.8	3621.9	3522.7
40°	5018.7	4999.8	4981.9	4907.2	4756.8	4500.4	4207.2	3956.3	3724.5	3615.2	3518.2
42.5°	5133.5	5112.4	5075.6	4981.9	4799.1	4505.9	4190.4	3922.9	3689.9	3581.8	3485.9
45°	5154.7	5139.1	5103.4	4998.7	4789.1	4470.3	4139.2	3868.3	3638.6	3530.5	3440.2
47.5°	5104.6	5092.3	5057.7	4954.1	4745.6	4416.7	4080.1	3810.3	3588.5	3487.0	3400.1
50°	5027.6	5016.5	4989.7	4895.0	4696.6	4380.0	4050.0	3780.2	3571.7	3479.2	3399.0
52.5°	5152.5	5161.4	5083.4	4979.7	4748.9	4412.3	4083.4	3811.4	3601.8	3510.4	3426.8
55°	7093.3	7081.1	6611.7	6218.2	5514.8	4877.1	4401.1	4058.9	3834.8	3743.4	3665.4
57.5°	9217.0	9174.6	8981.8	8613.9	7858.1	6849.2	5931.7	5151.4	4843.7	4712.2	4721.1
60°	9910.4	9926.0	9884.7	9754.3	9483.4	8958.3	8260.5	7674.1	7096.7	6814.6	6847.0
62.5°	10295.0	10322.8	10358.5	10329.5	10241.5	10119.9	10031.9	10085.4	10005.1	9802.2	9640.6
65°	10348.5	10405.3	10523.5	10617.1	10662.8	10777.7	11047.4	11694.0	12284.8	12323.9	12039.6
67.5°	9289.4	9446.6	9703.0	10136.7	10507.9	10915.9	11566.9	12550.2	13421.9	13450.9	13185.6
69°	7304.0	7606.1	7906.0	8874.7	9526.9	10326.2	11289.3	12632.7	13677.2	13757.5	13423.0
70°	5852.6	6032.1	6290.7	7263.9	8238.2	9257.1	10652.8	12360.6	13502.2	13663.8	13294.8
72.5°	3513.8	3582.9	3672.1	4021.0	4522.6	5430.1	7280.6	10077.6	11389.7	11605.9	11136.6
75°	2271.9	2267.5	2275.3	2372.2	2401.2	2575.1	3158.2	5184.8	7430.0	7822.4	7260.5
77.5°	1711.2	1726.8	1702.3	1711.2	1703.4	1750.2	1768.0	1856.1	2933.0	3613.0	3230.6
80°	1510.5	1518.3	1519.4	1515.0	1460.4	1455.9	1484.9	1434.7	1333.3	1353.3	1296.5
82.5°	861.7	860.6	870.6	946.4	977.7	1080.2	1122.6	1146.0	1057.9	992.2	897.4
85°	558.5	563.0	574.1	597.5	574.1	583.0	573.0	593.1	544.0	505.0	451.5
87.5°	228.5	228.5	243.0	264.2	246.4	241.9	207.3	205.1	173.9	157.2	122.6
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°	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5
2.5°	3430.2	3436.9	3433.5	3438.0	3434.6	3434.6	3430.2	3429.1	3432.4	3427.9	3429.1
5°	3400.1	3401.2	3395.6	3397.8	3391.2	3388.9	3385.6	3376.7	3382.2	3376.7	3378.9
7.5°	3356.6	3353.2	3345.4	3334.3	3326.5	3323.1	3316.5	3304.2	3306.4	3296.4	3302.0
10°	3300.9	3289.7	3276.3	3259.6	3248.5	3238.4	3223.9	3209.4	3201.6	3192.7	3191.6
12.5°	3238.4	3225.0	3207.2	3181.6	3157.0	3140.3	3118.0	3092.4	3084.6	3070.1	3062.3
15°	3170.4	3149.2	3128.1	3099.1	3072.3	3046.7	3016.6	2984.3	2963.1	2940.8	2924.1
17.5°	3109.1	3084.6	3056.7	3028.8	2999.9	2968.7	2930.7	2890.6	2859.4	2818.2	2784.7
20°	3061.2	3030.0	3002.1	2973.1	2940.8	2902.9	2857.2	2805.9	2753.5	2707.8	2668.8
22.5°	3042.2	2993.2	2959.7	2930.7	2898.4	2853.8	2798.1	2737.9	2674.3	2610.8	2559.5
25°	3057.8	2985.4	2933.0	2898.4	2870.6	2824.8	2762.4	2688.8	2615.3	2539.5	2470.3
27.5°	3103.5	3011.0	2935.2	2880.6	2848.3	2802.5	2736.8	2658.7	2571.8	2487.1	2402.3
30°	3174.9	3054.5	2958.6	2881.7	2831.5	2779.1	2710.0	2619.7	2531.7	2434.7	2342.1
32.5°	3244.0	3100.2	2985.4	2886.2	2809.2	2741.2	2664.3	2575.1	2480.4	2378.9	2283.1
35°	3293.1	3130.3	2995.4	2876.1	2774.7	2690.0	2607.5	2518.3	2425.8	2322.1	2224.0
37.5°	3316.5	3147.0	2996.5	2849.4	2729.0	2635.3	2547.3	2459.2	2372.2	2274.1	2181.6
40°	3315.3	3145.9	2980.9	2814.8	2674.3	2575.1	2488.2	2402.3	2321.0	2235.1	2151.5
42.5°	3290.8	3128.1	2958.6	2781.4	2635.3	2525.0	2434.7	2352.2	2283.1	2207.3	2137.0
45°	3252.9	3098.0	2935.2	2765.8	2624.2	2513.8	2418.0	2337.7	2276.4	2207.3	2147.1
47.5°	3223.9	3081.2	2938.6	2793.6	2658.7	2543.9	2442.5	2354.4	2302.0	2246.3	2203.9
50°	3228.4	3089.0	2949.7	2810.4	2683.3	2567.3	2469.2	2389.0	2351.1	2336.6	2326.5
52.5°	3251.8	3101.3	2983.1	2899.5	2856.1	2769.1	2711.1	2661.0	2688.8	2634.2	2569.6
55°	3550.6	3501.5	3616.3	3724.5	3861.6	3912.9	3863.8	3854.9	3899.5	3714.4	3289.7
57.5°	4784.6	4911.7	5089.0	5182.6	5296.3	5266.2	5152.5	5057.7	4946.3	4730.0	4200.5
60°	6883.7	6787.9	6707.6	6481.3	6296.3	6080.0	5839.2	5633.0	5435.7	5124.6	4551.6
62.5°	9046.4	8380.9	7824.6	7287.3	6854.8	6495.8	6146.9	5837.0	5538.2	5104.6	4488.1
65°	10917.0	9515.7	8471.2	7683.0	7051.0	6505.8	6057.7	5629.6	5249.5	4741.1	4131.4
67.5°	11757.6	10001.8	8482.3	7353.1	6478.0	5737.8	5158.1	4511.5	4085.7	3760.1	3416.8
69°	11695.1	9630.6	7877.0	6486.9	5481.4	4618.5	3996.5	3322.0	2914.0	2775.8	2768.0
70°	11398.6	9001.8	7170.2	5783.5	4633.0	3775.7	3179.3	2574.0	2193.9	2099.1	2267.5
72.5°	9306.2	6360.9	4493.7	3431.3	2638.7	2085.7	1701.1	1350.0	1078.0	934.2	965.4
75°	5256.2	2945.2	1904.0	1439.2	1216.2	1005.5	862.8	735.8	665.5	540.7	428.1
77.5°	1910.7	1264.2	1005.5	869.5	616.5	424.7	355.6	311.0	282.0	282.0	268.7
80°	1208.4	952.0	664.4	454.8	336.7	293.2	256.4	225.2	207.3	202.9	207.3
82.5°	754.7	583.0	372.3	285.4	239.7	215.2	187.3	163.9	149.4	146.0	152.7
85°	372.3	288.7	226.3	201.8	189.5	176.1	155.0	132.7	128.2	137.1	160.5
87.5°	111.5	99.2	81.4	84.7	89.2	87.0	69.1	60.2	56.9	74.7	117.1
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5
2.5°	3431.3	3430.2	3432.4	3429.1	3431.3	3432.4	3430.2	3440.2	3433.5	3434.6	3439.1
5°	3381.1	3378.9	3387.8	3385.6	3390.0	3394.5	3392.3	3406.8	3401.2	3405.6	3414.6
7.5°	3297.5	3302.0	3303.1	3303.1	3312.0	3326.5	3329.8	3338.8	3338.8	3351.0	3359.9
10°	3186.0	3187.1	3193.8	3192.7	3203.9	3219.5	3221.7	3237.3	3242.9	3263.0	3275.2
12.5°	3056.7	3051.1	3050.0	3048.9	3063.4	3080.1	3082.4	3109.1	3120.3	3138.1	3158.2
15°	2911.8	2897.3	2892.8	2901.8	2898.4	2908.5	2918.5	2933.0	2948.6	2984.3	3002.1
17.5°	2770.2	2741.2	2733.4	2723.4	2713.4	2713.4	2717.8	2735.7	2768.0	2786.9	2827.1
20°	2625.3	2590.7	2562.9	2536.1	2512.7	2503.8	2504.9	2527.2	2550.6	2581.8	2619.7
22.5°	2503.8	2451.4	2403.5	2367.8	2319.9	2318.7	2312.0	2318.7	2344.4	2352.2	2373.4
25°	2399.0	2328.8	2264.1	2206.1	2159.3	2134.8	2128.1	2125.9	2113.6	2110.3	2094.7
27.5°	2317.6	2232.9	2149.3	2079.1	2021.1	1987.6	1945.3	1915.2	1871.7	1860.6	1832.7
30°	2250.7	2159.3	2067.9	1976.5	1910.7	1850.5	1779.2	1726.8	1659.9	1616.4	1578.5
32.5°	2186.1	2093.6	2001.0	1910.7	1809.3	1715.6	1622.0	1540.6	1465.9	1399.0	1343.3
35°	2132.6	2044.5	1950.9	1841.6	1712.3	1577.4	1464.8	1372.3	1269.7	1199.5	1129.3
37.5°	2098.0	2017.7	1924.1	1773.6	1607.5	1462.6	1334.4	1221.8	1117.0	1011.1	932.0
40°	2082.4	2012.2	1895.1	1711.2	1516.1	1355.6	1214.0	1089.1	955.4	836.1	751.4
42.5°	2081.3	2009.9	1855.0	1642.1	1440.3	1265.3	1108.1	958.7	810.4	687.8	604.2
45°	2101.4	2006.6	1812.6	1584.1	1373.4	1190.6	1003.3	821.6	655.5	564.1	519.5
47.5°	2154.9	2012.2	1778.1	1530.6	1309.9	1100.3	882.9	671.1	534.0	491.6	491.6
50°	2250.7	2044.5	1769.2	1492.7	1246.3	995.5	735.8	541.8	472.7	472.7	486.0
52.5°	2397.9	2112.5	1784.8	1465.9	1167.2	857.3	579.7	467.1	453.7	466.0	483.8
55°	2736.8	2232.9	1805.9	1420.2	1046.8	680.0	478.2	441.5	447.0	461.5	478.2
57.5°	3358.8	2490.4	1828.2	1319.9	852.8	523.9	433.6	431.4	441.5	454.8	469.3
60°	3767.9	2818.2	1885.1	1168.3	645.5	432.5	411.4	424.7	437.0	448.1	459.3
62.5°	3767.9	2910.7	1927.4	998.8	484.9	393.5	396.9	418.0	432.5	438.1	444.8
65°	3527.2	2741.2	1783.6	813.8	394.6	371.2	383.5	404.7	418.0	422.5	428.1
67.5°	3082.4	2421.3	1502.7	613.1	352.3	352.3	367.9	383.5	394.6	403.5	412.5
69°	2679.9	2172.7	1323.2	519.5	335.5	337.8	353.4	366.8	380.1	391.3	402.4
70°	2390.1	1986.5	1198.4	471.6	325.5	326.6	342.2	356.7	369.0	381.3	394.6
72.5°	1279.8	1372.3	910.8	386.8	299.9	303.2	317.7	331.1	342.2	354.5	366.8
75°	435.9	589.7	579.7	316.6	270.9	279.8	288.7	301.0	315.5	323.3	330.0
77.5°	255.3	264.2	308.8	257.5	244.1	248.6	258.6	268.7	280.9	288.7	294.3
80°	214.0	212.9	214.0	209.6	212.9	223.0	229.6	243.0	254.2	256.4	255.3
82.5°	173.9	182.8	183.9	181.7	191.7	199.5	205.1	212.9	211.8	214.0	218.5
85°	155.0	153.8	161.6	162.8	162.8	157.2	158.3	158.3	158.3	161.6	162.8
87.5°	155.0	129.3	100.3	90.3	94.8	89.2	84.7	83.6	92.5	101.4	99.2
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°	3443.5	3443.5	3443.5	3443.5	3443.5
2.5°	3441.3	3444.7	3442.4	3442.4	3444.7
5°	3417.9	3423.5	3421.3	3423.5	3423.5
7.5°	3364.4	3372.2	3377.8	3383.3	3380.0
10°	3287.5	3300.9	3309.8	3316.5	3313.1
12.5°	3172.7	3184.9	3203.9	3215.0	3206.1
15°	3015.5	3050.0	3061.2	3076.8	3067.9
17.5°	2851.6	2872.8	2886.2	2900.6	2909.6
20°	2633.1	2649.8	2667.7	2674.3	2664.3
22.5°	2370.0	2378.9	2375.6	2385.6	2365.6
25°	2081.3	2086.9	2083.5	2092.4	2075.7
27.5°	1808.2	1807.1	1808.2	1797.0	1785.9
30°	1545.1	1535.0	1530.6	1513.9	1510.5
32.5°	1309.9	1275.3	1257.5	1232.9	1227.4
35°	1074.6	1025.6	993.3	965.4	953.1
37.5°	864.0	804.9	767.0	742.4	739.1
40°	683.4	628.7	602.0	588.6	586.4
42.5°	557.4	534.0	527.3	527.3	527.3
45°	508.3	507.2	512.8	517.3	518.4
47.5°	498.3	505.0	512.8	519.5	521.7
50°	498.3	505.0	510.6	517.3	519.5
52.5°	496.1	501.6	503.9	508.3	510.6
55°	489.4	492.7	492.7	495.0	497.2
57.5°	478.2	480.5	477.1	479.4	484.9
60°	467.1	469.3	463.7	469.3	472.7
62.5°	454.8	455.9	453.7	458.2	458.2
65°	434.8	432.5	435.9	439.2	440.3
67.5°	414.7	409.1	412.5	413.6	415.8
69°	399.1	395.7	396.9	399.1	401.3
70°	387.9	385.7	387.9	391.3	394.6
72.5°	360.1	361.2	369.0	375.7	382.4
75°	334.4	342.2	352.3	366.8	374.6
77.5°	303.2	308.8	316.6	332.2	346.7
80°	262.0	265.3	266.4	272.0	270.9
82.5°	212.9	209.6	207.3	205.1	204.0
85°	152.7	151.6	142.7	136.0	136.0
87.5°	91.4	87.0	82.5	76.9	73.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)