

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: P158705

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158705  
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  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (56) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19158.3 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

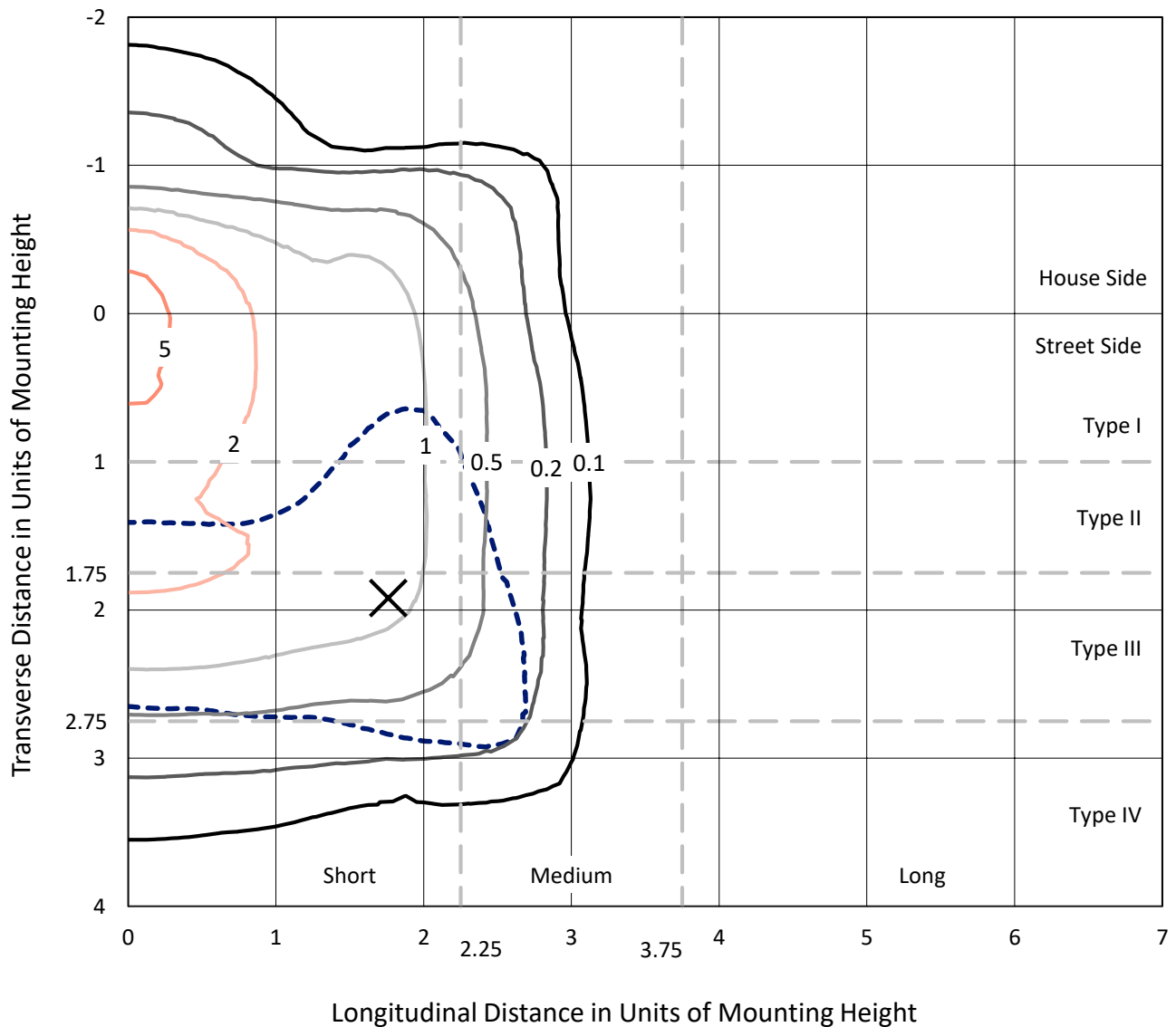
Input Watts (W): 204.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

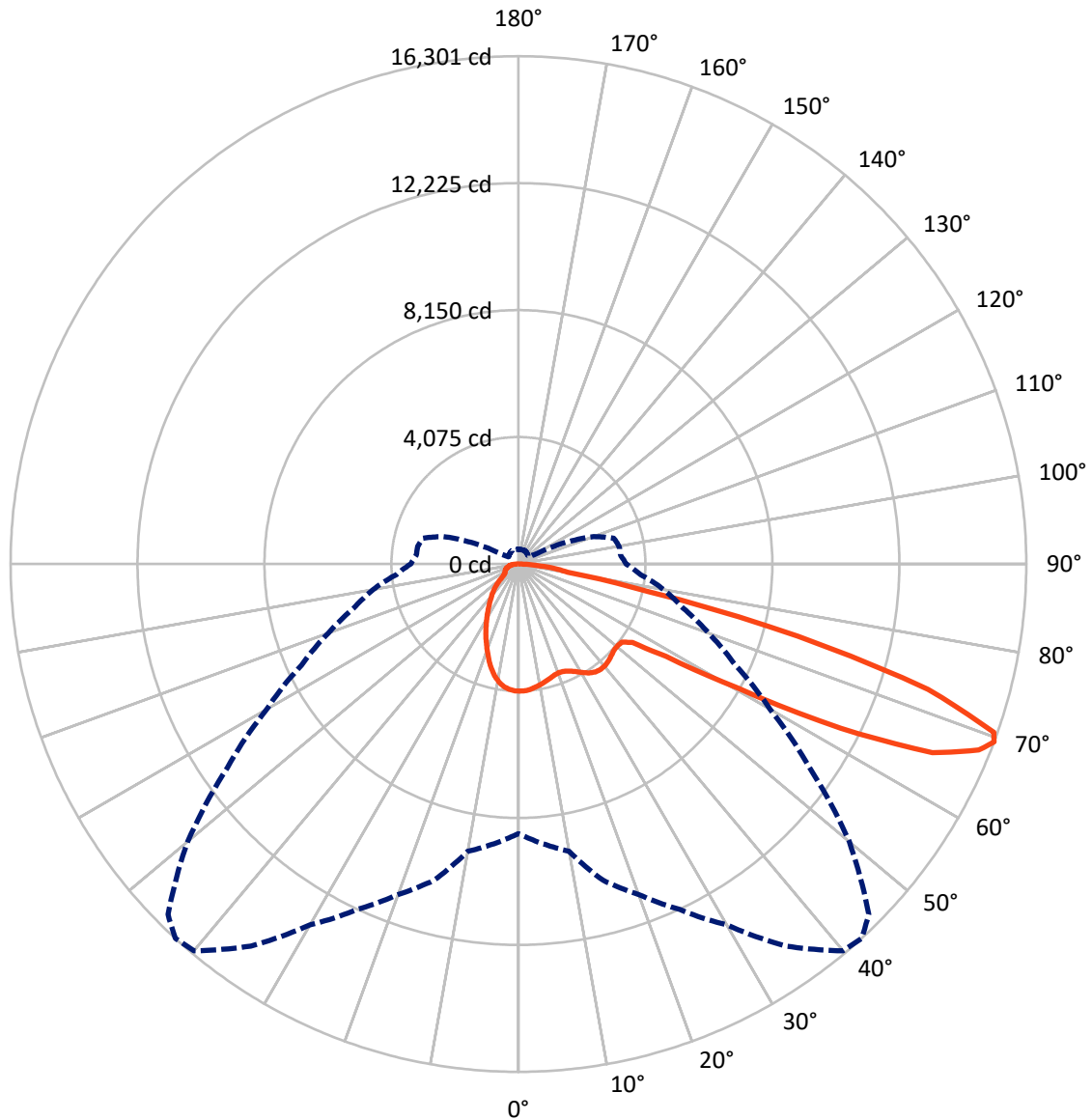
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	4259.2	0.0	4259.2
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	14899.1	0.0	14899.1
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	19158.3	0.0	19158.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.8	2.0
10°-20°	1023.6	5.3
20°-30°	1492.7	7.8
30°-40°	1902.8	9.9
40°-50°	2214.0	11.6
50°-60°	3368.6	17.6
60°-70°	5950.5	31.1
70°-80°	2455.5	12.8
80°-90°	370.8	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°	19158.3	100.0
0°-180°	19158.3	100.0

**Coefficient of Utilization**



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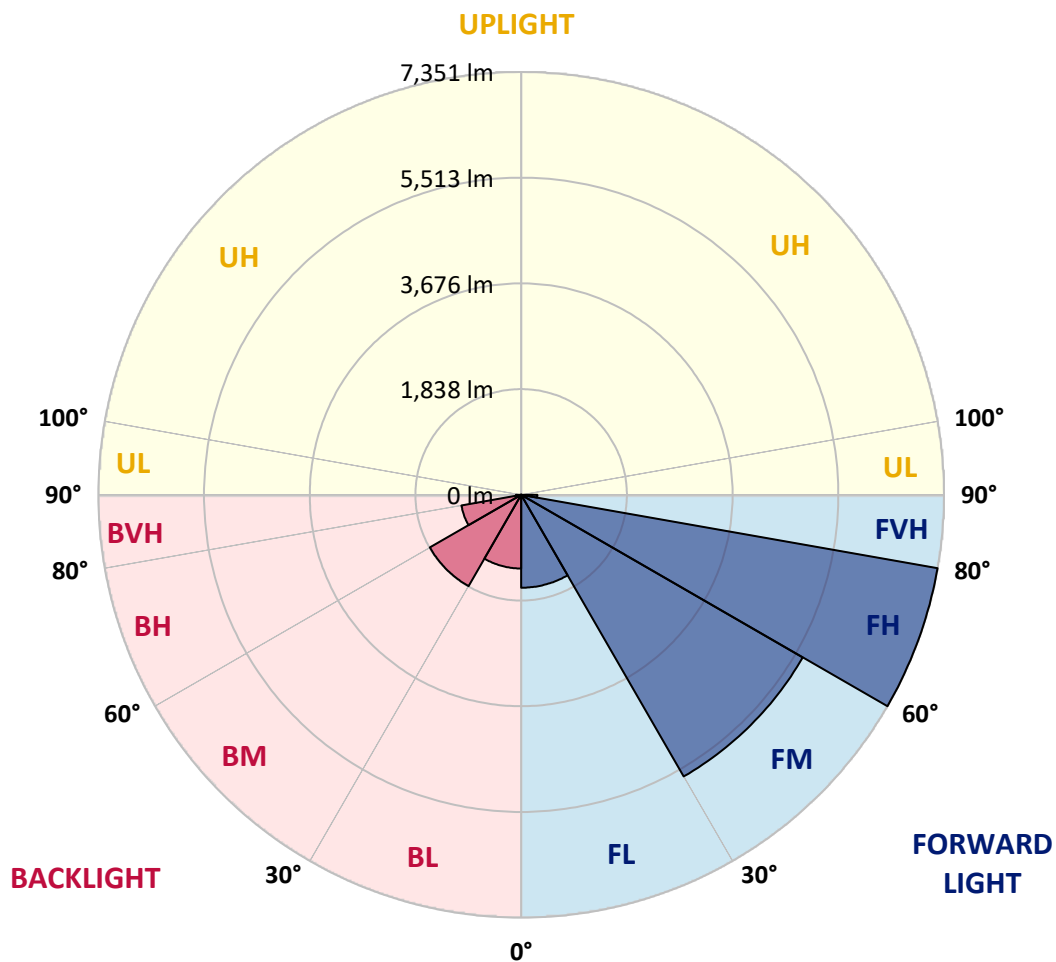
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.5	8.4			
FM (30°-60°)	5652.2	29.5			
FH (60°-80°)	7351.0	38.4			G3/7500
FVH (80°-90°)	280.4	1.5			G3/500
BL (0°-30°)	1280.6	6.7	B3/2500		
BM (30°-60°)	1833.2	9.6	B2/2500		
BH (60°-80°)	1055.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	90.4	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°	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1
2.5°	4066.9	4081.4	4076.1	4076.1	4080.1	4073.5	4073.5	4076.1	4069.5	4073.5	4072.1
5°	4052.3	4060.3	4057.6	4057.6	4057.6	4052.3	4049.7	4048.4	4039.1	4039.1	4035.2
7.5°	4020.6	4023.3	4027.2	4022.0	4020.6	4019.3	4010.1	4004.8	3994.2	3985.0	3987.6
10°	3978.4	3977.0	3983.7	3979.7	3974.4	3970.4	3962.5	3953.3	3941.4	3929.5	3928.2
12.5°	3930.8	3929.5	3934.8	3932.1	3928.2	3920.3	3913.6	3897.8	3879.3	3864.8	3863.5
15°	3900.4	3896.5	3901.8	3896.5	3889.9	3881.9	3870.1	3850.2	3817.2	3802.7	3790.8
17.5°	3929.5	3922.9	3925.5	3918.9	3909.7	3888.6	3860.8	3818.5	3771.0	3745.9	3727.4
20°	4031.2	4019.3	4022.0	4015.4	3994.2	3966.5	3913.6	3839.7	3759.1	3718.2	3689.1
22.5°	4176.5	4167.2	4171.2	4164.6	4143.5	4101.2	4022.0	3916.3	3801.4	3741.9	3695.7
25°	4397.1	4405.0	4407.6	4377.3	4365.4	4287.4	4177.8	4031.2	3878.0	3808.0	3744.6
27.5°	4645.4	4645.4	4657.3	4645.4	4621.6	4530.5	4375.9	4198.9	4002.1	3907.0	3830.4
30°	4887.1	4884.5	4906.9	4904.3	4866.0	4762.9	4587.3	4372.0	4147.4	4040.4	3942.7
32.5°	5143.4	5151.3	5165.8	5160.5	5110.3	4967.7	4756.3	4522.6	4286.1	4168.6	4058.9
35°	5420.7	5424.7	5430.0	5427.3	5325.6	5146.0	4880.5	4619.0	4373.3	4257.1	4143.5
37.5°	5698.1	5694.1	5687.5	5630.7	5514.5	5264.9	4955.8	4674.5	4416.9	4291.4	4173.9
40°	5946.4	5924.0	5902.8	5814.3	5636.0	5332.2	4984.8	4687.7	4412.9	4283.5	4168.6
42.5°	6082.5	6057.4	6013.8	5902.8	5686.2	5338.8	4965.0	4648.0	4372.0	4243.9	4130.3
45°	6107.6	6089.1	6046.8	5922.6	5674.3	5296.6	4904.3	4583.3	4311.2	4183.1	4076.1
47.5°	6048.1	6033.6	5992.7	5869.8	5622.8	5233.2	4834.3	4514.6	4251.8	4131.6	4028.6
50°	5957.0	5943.8	5912.1	5799.8	5564.7	5189.6	4798.6	4479.0	4232.0	4122.3	4027.2
52.5°	6104.9	6115.5	6023.0	5900.2	5626.8	5227.9	4838.2	4516.0	4267.6	4159.3	4060.3
55°	8404.5	8390.0	7833.9	7367.6	6534.2	5778.7	5214.7	4809.2	4543.7	4435.4	4342.9
57.5°	10920.7	10870.5	10642.0	10206.1	9310.6	8115.2	7028.2	6103.6	5739.0	5583.2	5593.8
60°	11742.3	11760.8	11711.9	11557.3	11236.4	10614.3	9787.4	9092.7	8408.5	8074.3	8112.6
62.5°	12198.0	12231.0	12273.2	12238.9	12134.6	11990.6	11886.2	11949.6	11854.5	11614.1	11422.6
65°	12261.4	12328.7	12468.7	12579.7	12633.8	12769.9	13089.5	13855.6	14555.7	14601.9	14265.1
67.5°	11006.6	11192.8	11496.6	12010.4	12450.2	12933.7	13705.0	14870.0	15902.9	15937.3	15622.9
69°	8654.1	9012.1	9367.4	10515.2	11287.9	12234.9	13376.1	14967.8	16205.4	16300.5	15904.2
70°	6934.4	7147.1	7453.5	8606.6	9761.0	10968.3	12621.9	14645.5	15998.0	16189.5	15752.3
72.5°	4163.3	4245.2	4350.8	4764.3	5358.6	6433.8	8626.4	11940.4	13495.0	13751.3	13195.2
75°	2691.9	2686.6	2695.8	2810.7	2845.1	3051.1	3741.9	6143.2	8803.4	9268.3	8602.6
77.5°	2027.5	2046.0	2016.9	2027.5	2018.2	2073.7	2094.9	2199.2	3475.1	4280.8	3827.8
80°	1789.7	1799.0	1800.3	1795.0	1730.3	1725.0	1759.4	1699.9	1579.7	1603.5	1536.1
82.5°	1021.0	1019.7	1031.6	1121.4	1158.4	1279.9	1330.1	1357.8	1253.5	1175.5	1063.3
85°	661.7	667.0	680.2	708.0	680.2	690.8	678.9	702.7	644.6	598.3	534.9
87.5°	270.8	270.8	287.9	313.0	291.9	286.6	245.7	243.0	206.1	186.2	145.3
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):**

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1
2.5°	4064.2	4072.1	4068.2	4073.5	4069.5	4069.5	4064.2	4062.9	4066.9	4061.6	4062.9
5°	4028.6	4029.9	4023.3	4025.9	4018.0	4015.4	4011.4	4000.8	4007.4	4000.8	4003.5
7.5°	3977.0	3973.1	3963.8	3950.6	3941.4	3937.4	3929.5	3915.0	3917.6	3905.7	3912.3
10°	3911.0	3897.8	3881.9	3862.1	3848.9	3837.0	3819.9	3802.7	3793.5	3782.9	3781.6
12.5°	3837.0	3821.2	3800.1	3769.7	3740.6	3720.8	3694.4	3664.0	3654.8	3637.6	3628.3
15°	3756.5	3731.4	3706.3	3671.9	3640.2	3609.9	3574.2	3535.9	3510.8	3484.4	3464.6
17.5°	3683.8	3654.8	3621.7	3588.7	3554.4	3517.4	3472.5	3424.9	3388.0	3339.1	3299.5
20°	3627.0	3590.0	3557.0	3522.7	3484.4	3439.5	3385.3	3324.6	3262.5	3208.3	3162.1
22.5°	3604.6	3546.5	3506.8	3472.5	3434.2	3381.4	3315.3	3244.0	3168.7	3093.4	3032.6
25°	3623.1	3537.2	3475.1	3434.2	3401.2	3347.0	3273.0	3185.9	3098.7	3008.9	2927.0
27.5°	3677.2	3567.6	3477.8	3413.1	3374.7	3320.6	3242.7	3150.2	3047.2	2946.8	2846.4
30°	3761.8	3619.1	3505.5	3414.4	3354.9	3292.9	3211.0	3104.0	2999.6	2884.7	2775.1
32.5°	3843.6	3673.3	3537.2	3419.7	3328.5	3247.9	3156.8	3051.1	2938.9	2818.7	2705.1
35°	3901.8	3708.9	3549.1	3407.8	3287.6	3187.2	3089.4	2983.8	2874.1	2751.3	2635.1
37.5°	3929.5	3728.7	3550.4	3376.1	3233.4	3122.5	3018.1	2913.8	2810.7	2694.5	2584.9
40°	3928.2	3727.4	3531.9	3335.1	3168.7	3051.1	2948.1	2846.4	2750.0	2648.3	2549.2
42.5°	3899.1	3706.3	3505.5	3295.5	3122.5	2991.7	2884.7	2787.0	2705.1	2615.3	2532.1
45°	3854.2	3670.6	3477.8	3277.0	3109.3	2978.5	2864.9	2769.8	2697.2	2615.3	2543.9
47.5°	3819.9	3650.8	3481.7	3310.0	3150.2	3014.2	2894.0	2789.6	2727.5	2661.5	2611.3
50°	3825.2	3660.0	3494.9	3329.8	3179.3	3041.9	2925.7	2830.6	2785.7	2768.5	2756.6
52.5°	3852.9	3674.6	3534.6	3435.5	3384.0	3281.0	3212.3	3152.8	3185.9	3121.1	3044.5
55°	4206.9	4148.8	4284.8	4412.9	4575.4	4636.1	4578.0	4567.5	4620.3	4401.0	3897.8
57.5°	5669.0	5819.6	6029.6	6140.6	6275.3	6239.6	6104.9	5992.7	5860.6	5604.3	4976.9
60°	8156.2	8042.6	7947.5	7679.4	7460.1	7203.9	6918.6	6674.2	6440.4	6071.9	5393.0
62.5°	10718.6	9930.1	9271.0	8634.3	8121.8	7696.5	7283.1	6915.9	6561.9	6048.1	5317.7
65°	12935.0	11274.7	10037.1	9103.2	8354.3	7708.4	7177.4	6670.2	6219.8	5617.5	4895.0
67.5°	13930.9	11850.6	10050.3	8712.3	7675.4	6798.4	6111.5	5345.4	4840.9	4455.2	4048.4
69°	13856.9	11410.7	9333.1	7686.0	6494.6	5472.2	4735.2	3936.1	3452.7	3288.9	3279.6
70°	13505.6	10665.8	8495.6	6852.5	5489.4	4473.7	3767.0	3049.8	2599.4	2487.1	2686.6
72.5°	11026.4	7536.7	5324.3	4065.5	3126.4	2471.3	2015.6	1599.5	1277.3	1106.9	1143.8
75°	6227.8	3489.7	2256.0	1705.2	1441.0	1191.4	1022.3	871.8	788.5	640.6	507.2
77.5°	2263.9	1497.8	1191.4	1030.3	730.4	503.2	421.3	368.5	334.2	334.2	318.3
80°	1431.8	1128.0	787.2	538.9	398.9	347.4	303.8	266.8	245.7	240.4	245.7
82.5°	894.2	690.8	441.2	338.1	284.0	254.9	221.9	194.2	177.0	173.0	181.0
85°	441.2	342.1	268.1	239.1	224.5	208.7	183.6	157.2	151.9	162.5	190.2
87.5°	132.1	117.6	96.4	100.4	105.7	103.0	81.9	71.3	67.4	88.5	138.7
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°	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1	4080.1
2.5°	4065.5	4064.2	4066.9	4062.9	4065.5	4066.9	4064.2	4076.1	4068.2	4069.5	4074.8
5°	4006.1	4003.5	4014.0	4011.4	4016.7	4022.0	4019.3	4036.5	4029.9	4035.2	4045.7
7.5°	3907.0	3912.3	3913.6	3913.6	3924.2	3941.4	3945.3	3955.9	3955.9	3970.4	3981.0
10°	3775.0	3776.3	3784.2	3782.9	3796.1	3814.6	3817.2	3835.7	3842.3	3866.1	3880.6
12.5°	3621.7	3615.1	3613.8	3612.5	3629.7	3649.5	3652.1	3683.8	3697.0	3718.2	3741.9
15°	3450.0	3432.9	3427.6	3438.1	3434.2	3446.1	3458.0	3475.1	3493.6	3535.9	3557.0
17.5°	3282.3	3247.9	3238.7	3226.8	3214.9	3214.9	3220.2	3241.3	3279.6	3302.1	3349.6
20°	3110.6	3069.6	3036.6	3004.9	2977.2	2966.6	2967.9	2994.3	3022.1	3059.1	3104.0
22.5°	2966.6	2904.5	2847.7	2805.5	2748.7	2747.3	2739.4	2747.3	2777.7	2787.0	2812.1
25°	2842.4	2759.2	2682.6	2613.9	2558.5	2529.4	2521.5	2518.8	2504.3	2500.3	2481.9
27.5°	2746.0	2645.6	2546.6	2463.4	2394.7	2355.1	2304.9	2269.2	2217.7	2204.5	2171.5
30°	2666.8	2558.5	2450.2	2341.8	2263.9	2192.6	2108.1	2046.0	1966.7	1915.2	1870.3
32.5°	2590.2	2480.5	2370.9	2263.9	2143.7	2032.8	1921.8	1825.4	1736.9	1657.7	1591.6
35°	2526.8	2422.4	2311.5	2182.0	2028.8	1869.0	1735.6	1626.0	1504.4	1421.2	1338.0
37.5°	2485.8	2390.7	2279.8	2101.5	1904.7	1732.9	1581.0	1447.6	1323.5	1198.0	1104.2
40°	2467.3	2384.1	2245.4	2027.5	1796.3	1606.1	1438.4	1290.5	1132.0	990.6	890.2
42.5°	2466.0	2381.5	2197.9	1945.6	1706.5	1499.2	1312.9	1135.9	960.3	815.0	715.9
45°	2489.8	2377.5	2147.7	1876.9	1627.3	1410.7	1188.8	973.5	776.7	668.3	615.5
47.5°	2553.2	2384.1	2106.7	1813.5	1552.0	1303.7	1046.1	795.1	632.7	582.5	582.5
50°	2666.8	2422.4	2096.2	1768.6	1476.7	1179.5	871.8	641.9	560.0	560.0	575.9
52.5°	2841.1	2503.0	2114.7	1736.9	1382.9	1015.7	686.8	553.4	537.6	552.1	573.2
55°	3242.7	2645.6	2139.8	1682.8	1240.3	805.7	566.6	523.1	529.7	546.8	566.6
57.5°	3979.7	2950.8	2166.2	1563.9	1010.4	620.8	513.8	511.2	523.1	538.9	556.1
60°	4464.4	3339.1	2233.5	1384.2	764.8	512.5	487.4	503.2	517.8	531.0	544.2
62.5°	4464.4	3448.7	2283.7	1183.5	574.6	466.3	470.2	495.3	512.5	519.1	527.0
65°	4179.1	3247.9	2113.3	964.2	467.6	439.8	454.4	479.5	495.3	500.6	507.2
67.5°	3652.1	2868.9	1780.5	726.5	417.4	417.4	435.9	454.4	467.6	478.1	488.7
69°	3175.3	2574.3	1567.8	615.5	397.6	400.2	418.7	434.6	450.4	463.6	476.8
70°	2831.9	2353.7	1419.9	558.7	385.7	387.0	405.5	422.7	437.2	451.7	467.6
72.5°	1516.3	1626.0	1079.1	458.3	355.3	359.3	376.4	392.3	405.5	420.0	434.6
75°	516.4	698.7	686.8	375.1	321.0	331.5	342.1	356.6	373.8	383.0	391.0
77.5°	302.5	313.0	365.9	305.1	289.3	294.5	306.4	318.3	332.9	342.1	348.7
80°	253.6	252.3	253.6	248.3	252.3	264.2	272.1	287.9	301.2	303.8	302.5
82.5°	206.1	216.6	217.9	215.3	227.2	236.4	243.0	252.3	251.0	253.6	258.9
85°	183.6	182.3	191.5	192.8	192.8	186.2	187.6	187.6	187.6	191.5	192.8
87.5°	183.6	153.2	118.9	107.0	112.3	105.7	100.4	99.1	109.6	120.2	117.6
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):**

	160°	165°	170°	175°	180°
0°	4080.1	4080.1	4080.1	4080.1	4080.1
2.5°	4077.4	4081.4	4078.8	4078.8	4081.4
5°	4049.7	4056.3	4053.7	4056.3	4056.3
7.5°	3986.3	3995.5	4002.1	4008.7	4004.8
10°	3895.2	3911.0	3921.6	3929.5	3925.5
12.5°	3759.1	3773.6	3796.1	3809.3	3798.7
15°	3572.9	3613.8	3627.0	3645.5	3635.0
17.5°	3378.7	3403.8	3419.7	3436.8	3447.4
20°	3119.8	3139.6	3160.8	3168.7	3156.8
22.5°	2808.1	2818.7	2814.7	2826.6	2802.8
25°	2466.0	2472.6	2468.6	2479.2	2459.4
27.5°	2142.4	2141.1	2142.4	2129.2	2116.0
30°	1830.7	1818.8	1813.5	1793.7	1789.7
32.5°	1552.0	1511.0	1489.9	1460.8	1454.2
35°	1273.3	1215.2	1176.9	1143.8	1129.3
37.5°	1023.7	953.6	908.7	879.7	875.7
40°	809.7	745.0	713.3	697.4	694.8
42.5°	660.4	632.7	624.8	624.8	624.8
45°	602.3	601.0	607.6	612.9	614.2
47.5°	590.4	598.3	607.6	615.5	618.2
50°	590.4	598.3	604.9	612.9	615.5
52.5°	587.8	594.4	597.0	602.3	604.9
55°	579.8	583.8	583.8	586.5	589.1
57.5°	566.6	569.3	565.3	568.0	574.6
60°	553.4	556.1	549.5	556.1	560.0
62.5°	538.9	540.2	537.6	542.9	542.9
65°	515.1	512.5	516.4	520.4	521.7
67.5°	491.4	484.7	488.7	490.0	492.7
69°	472.9	468.9	470.2	472.9	475.5
70°	459.7	457.0	459.7	463.6	467.6
72.5°	426.6	428.0	437.2	445.1	453.0
75°	396.3	405.5	417.4	434.6	443.8
77.5°	359.3	365.9	375.1	393.6	410.8
80°	310.4	314.4	315.7	322.3	321.0
82.5°	252.3	248.3	245.7	243.0	241.7
85°	181.0	179.6	169.1	161.1	161.1
87.5°	108.3	103.0	97.7	91.1	87.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)