

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: McGRAW-EDISON

Report Number: P158415

Luminaire Tested: **VTS-F12-LED-E1-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158415  
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: MCGRAW-EDISON  
Catalog Number: VTS-F12-LED-E1-SL3  
Description: VENTUS LED SITE LUMINAIRE  
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

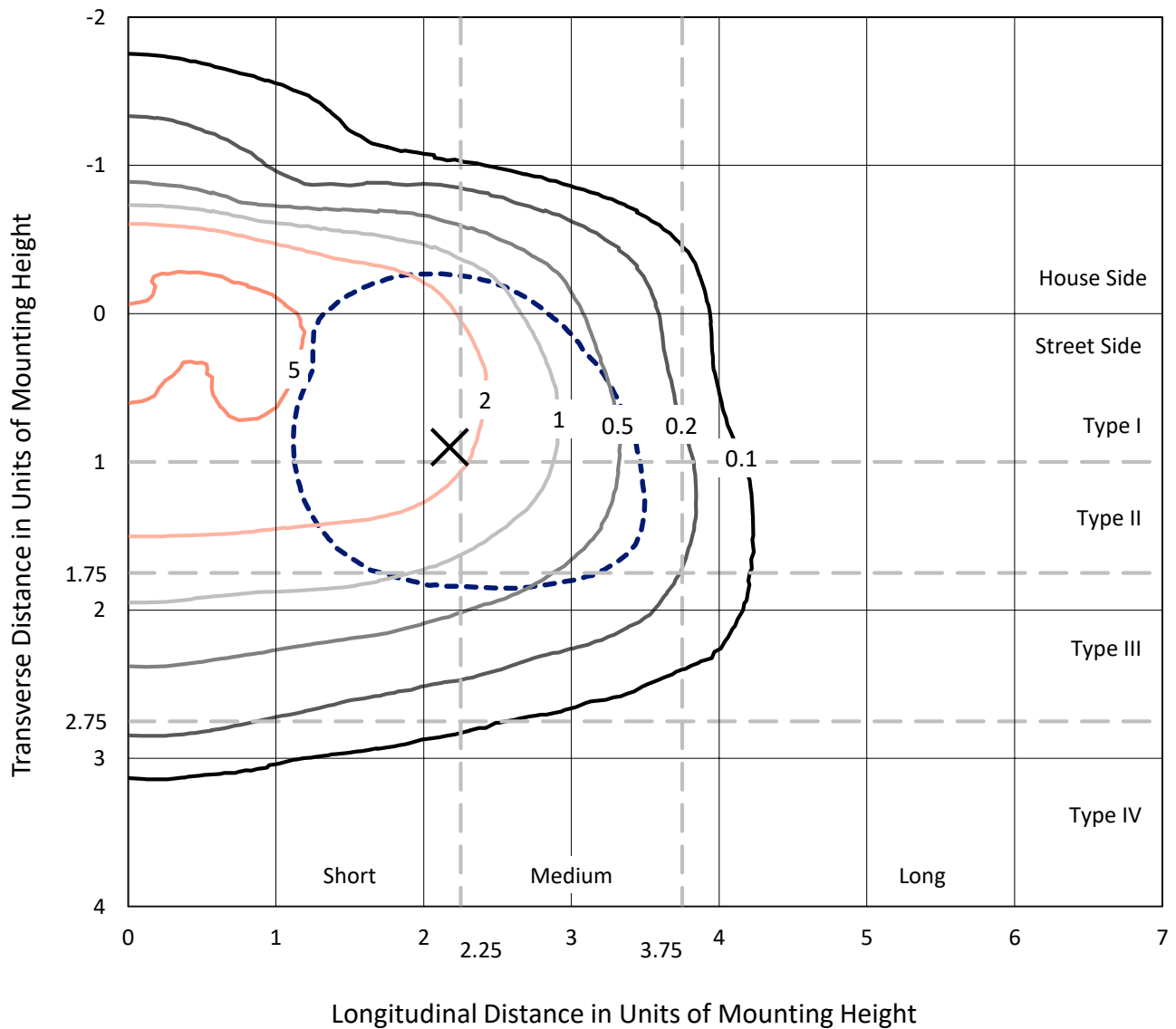
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29886 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 306.6  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

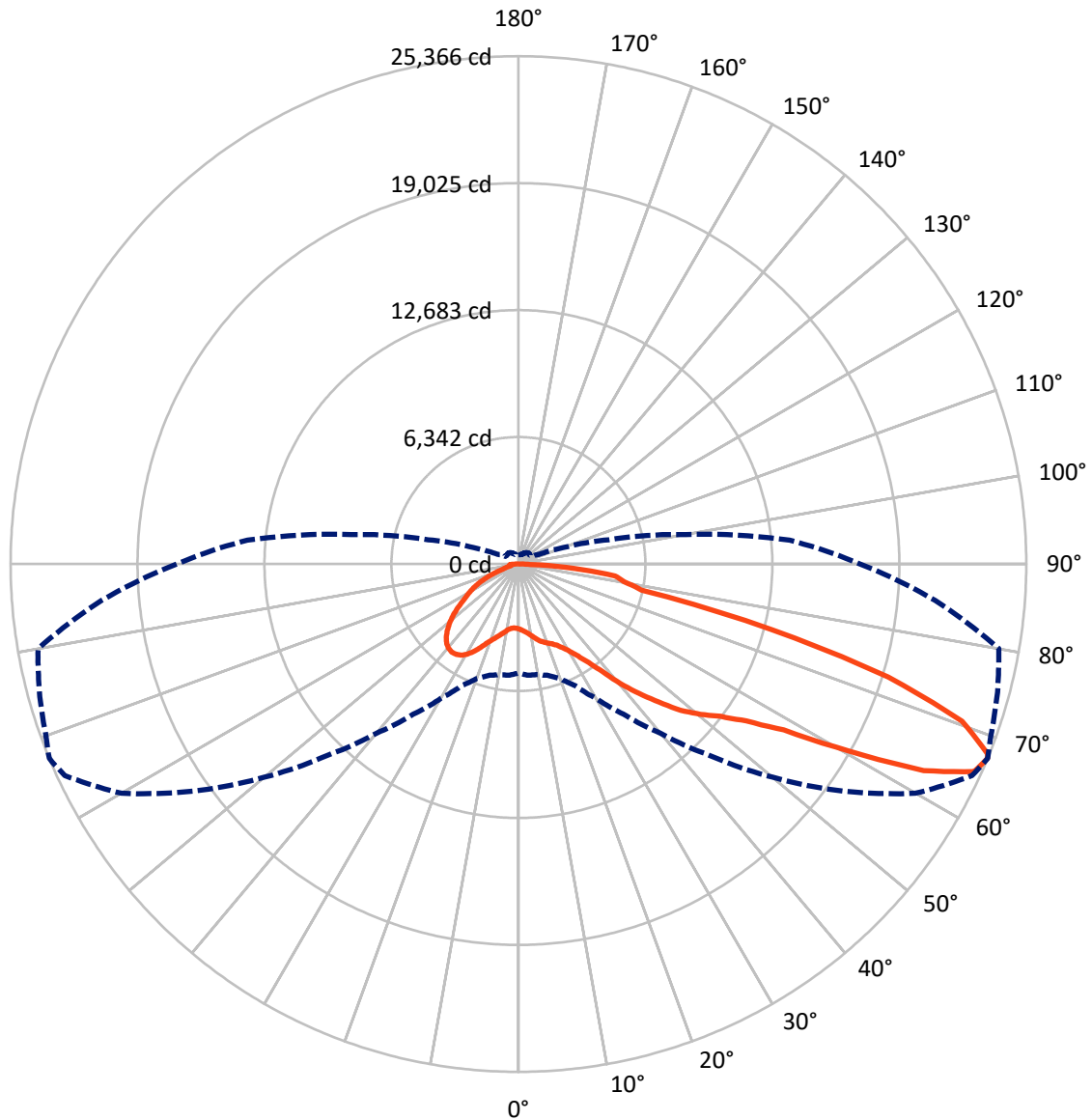
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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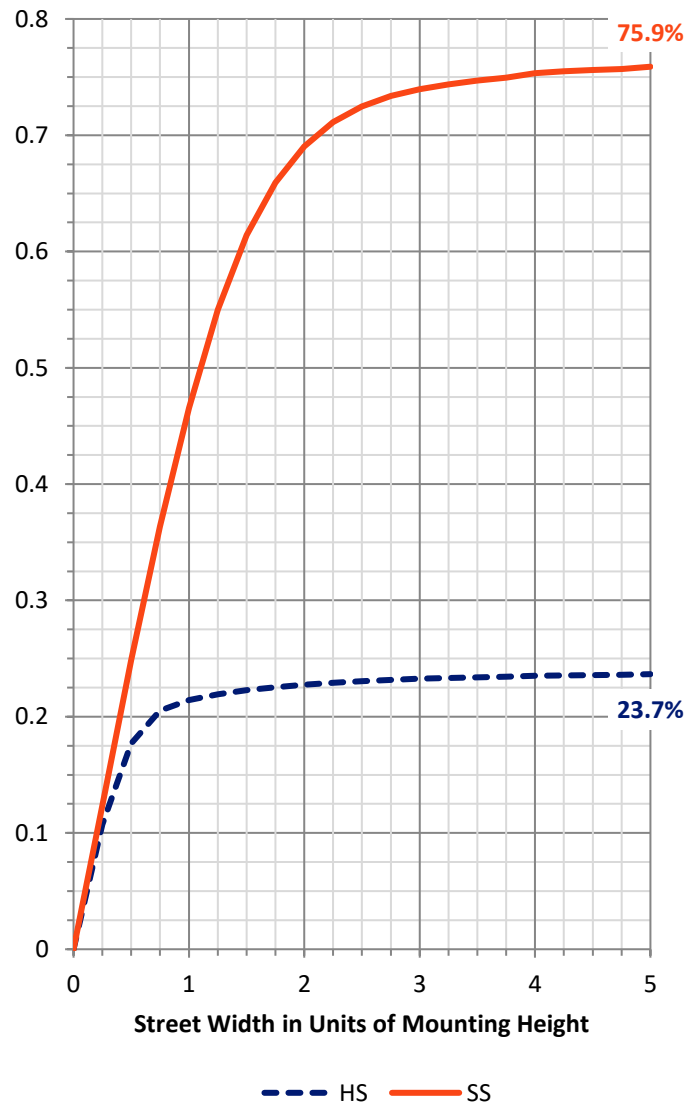
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7169.7	0.0	7169.7
	% Fixture	24.0	0.0	24.0
<b>Street Side</b>	Lumens	22716.3	0.0	22716.3
	% Fixture	76.0	0.0	76.0
<b>Total</b>	Lumens	29886.0	0.0	29886.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.9	1.1
10°-20°	1096.9	3.7
20°-30°	1958.3	6.6
30°-40°	2870.0	9.6
40°-50°	4434.6	14.8
50°-60°	6457.5	21.6
60°-70°	8412.0	28.1
70°-80°	3765.5	12.6
80°-90°	569.3	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°	29886.0	100.0
0°-180°	29886.0	100.0



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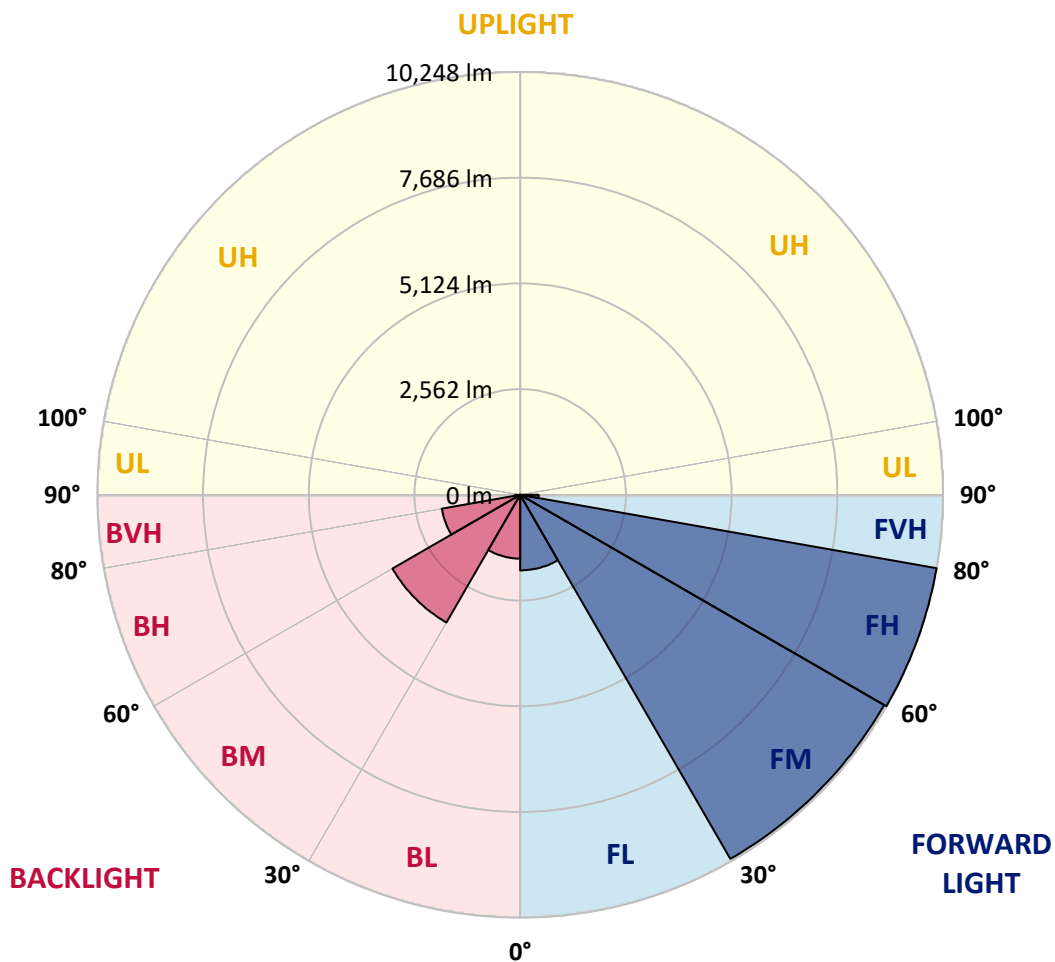
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1831.1	6.1			
FM	(30°-60°)	10189.6	34.1			
FH	(60°-80°)	10248.5	34.3			G4/12000
FVH	(80°-90°)	447.1	1.5			G3/500
BL	(0°-30°)	1546.0	5.2	B3/2500		
BM	(30°-60°)	3572.5	12.0	B3/5000		
BH	(60°-80°)	1928.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	122.2	0.4			G2/225
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°	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4
2.5°	3366.2	3374.1	3376.1	3374.1	3376.1	3368.1	3366.2	3354.3	3360.2	3344.4	3340.4
5°	3548.4	3554.4	3558.3	3542.5	3546.5	3538.5	3528.6	3516.7	3500.9	3479.1	3465.2
7.5°	3726.7	3736.7	3734.7	3728.7	3714.9	3706.9	3687.1	3669.3	3641.6	3615.8	3598.0
10°	3966.5	3964.5	3964.5	3930.8	3911.0	3893.2	3857.5	3829.8	3802.0	3764.4	3744.6
12.5°	4243.9	4230.0	4224.0	4200.3	4158.7	4127.0	4075.5	4022.0	3972.4	3932.8	3901.1
15°	4511.3	4511.3	4495.5	4457.8	4418.2	4376.6	4303.3	4226.0	4144.8	4081.4	4049.7
17.5°	4755.0	4733.2	4719.4	4669.8	4628.2	4560.9	4479.6	4396.4	4295.4	4206.2	4144.8
20°	4933.3	4915.5	4885.8	4824.4	4753.0	4673.8	4578.7	4481.6	4372.6	4275.6	4206.2
22.5°	5036.4	5014.6	4969.0	4887.8	4790.7	4679.7	4568.8	4477.6	4378.6	4305.3	4247.8
25°	5089.9	5068.1	5006.6	4899.7	4768.9	4622.3	4495.5	4406.3	4348.9	4331.0	4323.1
27.5°	5087.9	5070.0	5004.7	4881.8	4713.4	4545.0	4408.3	4333.0	4327.1	4396.4	4447.9
30°	5036.4	5024.5	4965.0	4842.2	4665.9	4489.5	4362.7	4323.1	4384.5	4531.1	4657.9
32.5°	4984.8	4978.9	4937.3	4826.3	4675.8	4527.2	4440.0	4444.0	4570.8	4796.6	5000.7
35°	4990.8	4998.7	4992.8	4933.3	4838.2	4761.0	4719.4	4806.5	5004.7	5278.1	5551.5
37.5°	5042.3	5072.0	5109.7	5115.6	5117.6	5105.7	5192.9	5377.1	5666.4	6023.0	6451.0
40°	5155.2	5188.9	5297.9	5393.0	5515.8	5662.4	5838.8	6094.4	6453.0	6892.8	7417.8
42.5°	5505.9	5553.5	5688.2	5864.5	6090.4	6320.2	6583.7	6932.4	7372.3	7835.9	8386.7
45°	5963.6	6062.7	6211.2	6407.4	6746.2	7069.1	7409.9	7800.2	8267.8	8848.3	9403.1
47.5°	6534.2	6633.3	6849.2	7059.2	7459.4	7861.6	8234.1	8642.3	9149.5	9743.8	10358.0
50°	7033.5	7146.4	7338.6	7621.9	8085.5	8578.9	8991.0	9432.8	9858.7	10484.8	11105.0
52.5°	7425.8	7507.0	7691.3	7950.8	8467.9	9008.8	9529.9	10021.2	10526.4	11152.5	11727.1
55°	7475.3	7550.6	7730.9	8028.1	8553.1	9153.4	9753.7	10336.2	11051.5	11735.0	12495.8
57.5°	7261.3	7322.7	7505.0	7770.5	8281.7	8965.2	9724.0	10471.0	11386.3	12309.6	13238.8
60°	6958.2	7019.6	7162.3	7374.2	7835.9	8572.9	9458.5	10480.9	11697.4	13030.7	14397.8
62.5°	6625.3	6678.8	6793.7	6944.3	7350.5	8030.0	9044.5	10415.5	11951.0	13748.0	15856.0
65°	6064.6	6193.4	6242.9	6397.5	6803.6	7445.6	8477.8	9973.7	11847.9	14066.9	16771.4
67°	5444.5	5575.3	5601.0	5757.5	6082.5	6698.6	7748.7	9155.4	11031.7	13516.2	16569.3
67.5°	5246.4	5357.3	5397.0	5553.5	5860.6	6441.1	7437.6	8860.2	10782.0	13215.0	16325.6
70°	3857.5	3980.4	4023.9	4089.3	4309.2	4792.7	5452.4	6686.8	8596.7	10784.0	13771.7
72.5°	2064.5	2163.5	2205.1	2302.2	2415.2	2678.7	3183.9	4069.5	5276.1	7215.7	9797.3
75°	1396.8	1436.4	1466.1	1533.5	1650.4	1860.4	2082.3	2393.4	3122.5	4071.5	5575.3
77.5°	796.5	814.3	818.3	830.1	923.3	1123.4	1487.9	2014.9	2583.6	2950.1	3566.3
80°	344.7	380.4	408.1	390.3	384.4	426.0	533.0	794.5	1557.3	2472.6	2934.2
82.5°	186.2	202.1	225.9	227.8	239.7	253.6	275.4	326.9	459.7	927.2	2022.9
85°	97.1	101.0	134.7	154.5	164.4	172.4	176.3	196.1	225.9	287.3	503.2
87.5°	13.9	19.8	23.8	31.7	35.7	37.6	43.6	55.5	65.4	79.3	134.7
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):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4
2.5°	3322.6	3318.6	3306.7	3298.8	3290.9	3282.9	3273.0	3265.1	3251.2	3241.3	3229.5
5°	3445.4	3421.6	3405.8	3384.0	3380.0	3354.3	3328.5	3316.6	3292.9	3273.0	3249.3
7.5°	3570.2	3542.5	3516.7	3498.9	3489.0	3453.3	3427.6	3397.9	3370.1	3344.4	3316.6
10°	3716.8	3689.1	3661.4	3649.5	3631.6	3598.0	3576.2	3538.5	3510.8	3479.1	3441.4
12.5°	3869.4	3849.6	3829.8	3813.9	3806.0	3790.2	3758.4	3726.7	3689.1	3657.4	3613.8
15°	4004.1	3990.3	3982.3	3978.4	3978.4	3968.5	3938.7	3909.0	3869.4	3833.7	3786.2
17.5°	4099.2	4093.3	4099.2	4105.2	4113.1	4105.2	4099.2	4065.5	4039.8	3996.2	3948.7
20°	4154.7	4166.6	4196.3	4216.1	4234.0	4247.8	4253.8	4226.0	4192.3	4160.6	4128.9
22.5°	4214.1	4247.8	4299.3	4329.1	4358.8	4408.3	4420.2	4400.4	4374.6	4354.8	4321.1
25°	4313.2	4362.7	4451.9	4499.4	4541.0	4614.4	4624.3	4628.2	4622.3	4606.4	4564.8
27.5°	4467.7	4564.8	4683.7	4745.1	4790.7	4885.8	4923.4	4923.4	4907.6	4925.4	4925.4
30°	4737.2	4866.0	5020.5	5056.2	5127.5	5210.7	5272.1	5280.1	5282.0	5319.7	5375.2
32.5°	5151.3	5274.1	5446.5	5486.1	5547.5	5626.8	5696.1	5688.2	5706.0	5787.3	5860.6
35°	5753.6	5878.4	5991.3	6044.8	6072.6	6143.9	6169.6	6213.2	6266.7	6367.8	6357.9
37.5°	6645.1	6756.1	6771.9	6805.6	6771.9	6785.8	6805.6	6857.1	6999.8	7090.9	6944.3
40°	7719.0	7903.2	7885.4	7845.8	7770.5	7669.5	7705.1	7784.4	7938.9	7859.7	7465.4
42.5°	8731.4	8921.6	8886.0	8840.4	8674.0	8636.3	8632.3	8697.7	8780.9	8555.1	7873.5
45°	9728.0	9922.1	9860.7	9835.0	9724.0	9642.8	9710.2	9714.1	9692.3	9208.9	8230.2
47.5°	10756.3	10934.6	10894.9	10916.7	10801.8	10748.3	10754.3	10726.5	10522.5	9763.6	8507.5
50°	11586.4	11826.1	11849.9	11800.4	11739.0	11657.7	11865.8	11790.5	11336.8	10302.6	8775.0
52.5°	12232.3	12555.2	12678.1	12646.4	12596.8	12606.8	12997.1	13082.3	12331.4	10982.1	9070.2
55°	12997.1	13506.2	13706.4	13825.2	13773.7	13971.8	14865.4	14909.0	13714.3	11869.7	9454.6
57.5°	14100.6	14829.7	15461.8	15630.2	15792.6	16436.5	17886.8	17445.0	15509.3	13213.0	9942.0
60°	15778.8	17375.6	18401.9	18940.8	19321.2	20220.7	21599.7	20480.3	17746.1	14811.9	10554.2
62.5°	18128.5	20462.5	22178.2	22719.1	22875.6	23392.7	24391.3	22249.5	18964.6	15529.1	10607.7
65°	19878.0	22677.5	24732.1	25009.4	24823.2	24833.1	25094.6	22156.4	18510.9	14903.0	9688.4
67°	19763.1	22897.4	25001.5	25366.1	25108.5	24769.7	24361.6	20894.4	17052.7	13591.4	8483.8
67.5°	19586.7	22685.4	24884.6	25269.0	25033.2	24646.9	24050.5	20405.0	16599.0	13183.3	8238.1
70°	16931.8	20008.7	22970.7	23511.6	23610.7	23258.0	21583.8	17205.3	13476.5	10724.6	6397.5
72.5°	13179.3	15919.4	18849.7	19319.3	19699.7	18683.3	15709.4	11883.6	9823.1	7728.9	4632.2
75°	8701.7	11489.3	12967.3	13036.7	12551.3	10669.1	7675.4	5951.7	5478.2	4543.0	2866.9
77.5°	4656.0	6756.1	6797.7	6294.5	6064.6	4521.2	1834.6	1012.4	1127.3	1279.9	1141.2
80°	3473.1	4303.3	4986.8	5361.3	5472.2	3877.3	949.0	536.9	469.6	428.0	422.0
82.5°	3132.4	4156.7	4659.9	4864.0	4812.5	3189.8	533.0	360.6	299.2	324.9	370.5
85°	1228.4	2219.0	2918.4	2825.3	2373.5	1188.8	291.2	194.2	194.2	281.3	364.6
87.5°	251.6	455.7	618.2	590.4	531.0	229.8	142.7	116.9	118.9	227.8	344.7
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°	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4	3239.4
2.5°	3217.6	3205.7	3197.8	3189.8	3181.9	3177.9	3172.0	3172.0	3160.1	3156.1	3152.2
5°	3231.4	3211.6	3197.8	3179.9	3166.1	3154.2	3138.3	3134.4	3120.5	3110.6	3106.6
7.5°	3290.9	3261.2	3231.4	3209.6	3189.8	3164.1	3146.2	3130.4	3116.5	3106.6	3094.7
10°	3403.8	3372.1	3330.5	3290.9	3265.1	3225.5	3197.8	3170.0	3154.2	3142.3	3126.4
12.5°	3570.2	3524.7	3475.1	3427.6	3384.0	3332.5	3304.7	3271.1	3251.2	3241.3	3229.5
15°	3740.6	3691.1	3629.7	3584.1	3534.6	3494.9	3469.2	3439.5	3423.6	3411.7	3403.8
17.5°	3915.0	3857.5	3813.9	3768.4	3744.6	3714.9	3681.2	3643.5	3598.0	3570.2	3532.6
20°	4093.3	4049.7	4023.9	3998.2	3970.4	3928.8	3861.5	3784.2	3699.0	3617.8	3540.5
22.5°	4301.3	4275.6	4271.6	4247.8	4190.4	4091.3	3966.5	3821.9	3677.2	3542.5	3437.5
25°	4594.5	4594.5	4574.7	4477.6	4342.9	4164.6	3954.6	3746.6	3554.4	3370.1	3231.4
27.5°	4963.1	4949.2	4852.1	4652.0	4410.3	4132.9	3851.6	3588.1	3342.4	3140.3	2962.0
30°	5369.2	5272.1	5064.1	4749.1	4386.5	4029.9	3685.1	3380.0	3090.8	2843.1	2633.1
32.5°	5791.2	5555.5	5181.0	4749.1	4303.3	3875.3	3477.1	3102.7	2771.8	2494.4	2244.8
35°	6173.6	5743.7	5208.7	4671.8	4140.8	3647.5	3185.9	2761.9	2365.6	2066.5	1793.0
37.5°	6520.3	5868.5	5179.0	4521.2	3905.1	3326.5	2785.7	2318.1	1870.3	1581.0	1347.3
40°	6746.2	5894.2	5056.2	4285.5	3568.2	2892.6	2294.3	1771.2	1416.6	1153.1	996.6
42.5°	6886.9	5844.7	4858.0	3962.5	3114.5	2347.8	1721.7	1270.0	1006.5	859.9	800.4
45°	6966.1	5715.9	4564.8	3520.7	2565.7	1785.1	1222.4	917.3	774.7	723.2	703.3
47.5°	6962.1	5507.9	4198.3	3009.5	1959.5	1244.2	865.8	715.2	675.6	659.8	655.8
50°	6920.5	5252.3	3768.4	2454.8	1414.6	867.8	685.5	641.9	632.0	622.1	618.2
52.5°	6863.1	4935.3	3292.9	1913.9	1004.5	693.4	622.1	610.2	602.3	592.4	588.4
55°	6756.1	4545.0	2777.7	1440.4	786.6	626.1	600.3	596.4	586.5	572.6	564.7
57.5°	6625.3	4148.8	2284.4	1125.4	695.4	610.2	596.4	590.4	576.5	560.7	544.8
60°	6577.8	3821.9	1898.0	949.0	673.6	616.2	606.3	598.3	578.5	554.8	536.9
62.5°	6280.6	3453.3	1620.7	879.7	685.5	641.9	638.0	626.1	596.4	568.6	540.9
65°	5511.9	2920.4	1373.0	832.1	709.3	685.5	689.5	671.6	641.9	604.3	554.8
67°	4661.9	2381.5	1143.2	786.6	727.1	731.1	745.0	731.1	693.4	639.9	572.6
67.5°	4436.0	2244.8	1085.7	772.7	731.1	743.0	758.8	748.9	711.3	649.9	580.5
70°	3296.8	1581.0	810.3	699.4	731.1	778.6	814.3	824.2	782.6	697.4	596.4
72.5°	2322.0	1020.3	622.1	606.3	663.7	727.1	794.5	828.2	780.6	687.5	574.6
75°	1394.8	638.0	505.2	515.1	558.7	624.1	677.6	691.5	632.0	572.6	497.3
77.5°	645.9	424.0	396.3	410.1	451.7	481.4	481.4	453.7	408.1	372.5	356.6
80°	380.4	346.7	344.7	370.5	398.2	376.4	342.8	305.1	281.3	269.5	263.5
82.5°	356.6	370.5	394.3	400.2	378.4	324.9	283.3	245.7	233.8	227.8	221.9
85°	420.0	449.7	410.1	378.4	334.8	273.4	221.9	190.2	184.3	178.3	170.4
87.5°	388.3	370.5	322.9	277.4	229.8	166.4	120.9	109.0	116.9	114.9	111.0
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):**

	160°	165°	170°	175°	180°
0°	3239.4	3239.4	3239.4	3239.4	3239.4
2.5°	3154.2	3154.2	3146.2	3142.3	3152.2
5°	3098.7	3100.7	3094.7	3092.7	3094.7
7.5°	3086.8	3084.8	3080.9	3076.9	3080.9
10°	3122.5	3120.5	3114.5	3118.5	3112.6
12.5°	3229.5	3241.3	3239.4	3243.3	3251.2
15°	3403.8	3401.8	3395.9	3399.8	3405.8
17.5°	3502.9	3487.0	3473.1	3467.2	3467.2
20°	3479.1	3433.5	3409.7	3395.9	3391.9
22.5°	3338.4	3273.0	3223.5	3211.6	3201.7
25°	3108.6	3027.4	2964.0	2950.1	2924.3
27.5°	2841.1	2732.2	2656.9	2641.0	2627.2
30°	2490.4	2365.6	2278.4	2223.0	2240.8
32.5°	2062.5	1943.6	1842.6	1753.4	1739.5
35°	1592.9	1462.2	1373.0	1333.4	1307.6
37.5°	1188.8	1079.8	1020.3	982.7	984.7
40°	909.4	851.9	820.2	794.5	796.5
42.5°	758.8	733.1	725.1	713.3	707.3
45°	687.5	679.6	681.6	669.7	665.7
47.5°	647.9	641.9	643.9	636.0	634.0
50°	616.2	612.2	614.2	608.2	606.3
52.5°	584.5	586.5	584.5	580.5	580.5
55°	556.7	554.8	558.7	552.8	552.8
57.5°	534.9	533.0	533.0	531.0	531.0
60°	523.1	515.1	513.1	513.1	515.1
62.5°	517.1	503.2	501.3	501.3	503.2
65°	519.1	497.3	489.4	487.4	485.4
67°	521.1	489.4	473.5	465.6	463.6
67.5°	523.1	485.4	467.6	459.7	455.7
70°	511.2	457.7	431.9	418.0	414.1
72.5°	481.4	424.0	392.3	374.5	370.5
75°	428.0	384.4	356.6	336.8	328.9
77.5°	330.9	311.1	301.2	289.3	285.3
80°	257.6	247.7	243.7	235.8	233.8
82.5°	214.0	204.1	198.1	188.2	182.3
85°	166.4	154.5	150.6	142.7	138.7
87.5°	109.0	103.0	101.0	91.1	87.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)