

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: P158608

Luminaire Tested: **VTS-E10-LED-E1-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158608  
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: MCGRAW-EDISON  
Catalog Number: VTS-E10-LED-E1-SL4-8030  
Description: VENTUS LED SITE LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (210) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

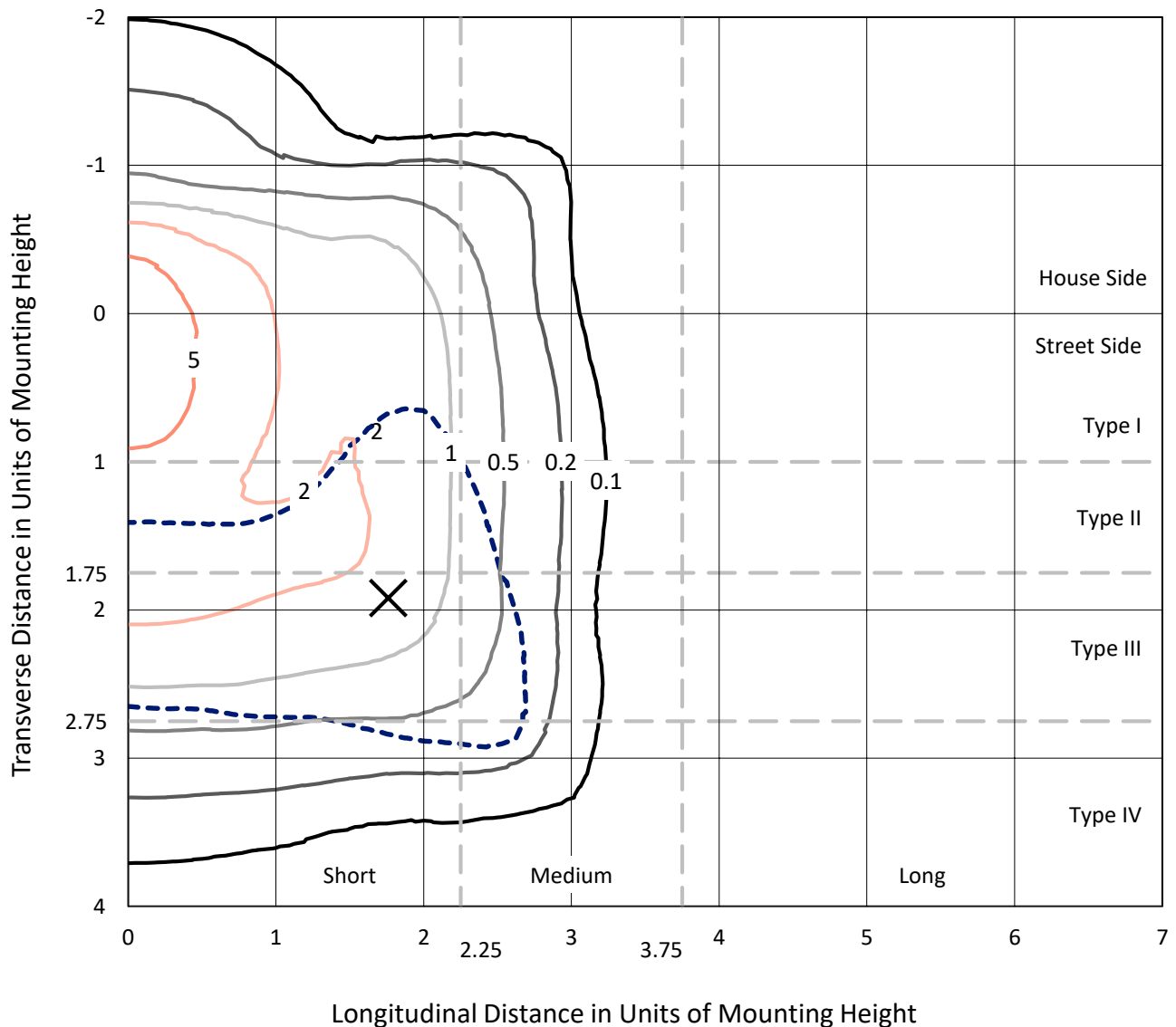
Lumens per Lamp: N/A  
Luminaire Lumens: 24483.6 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 247.7  
Input Voltage (V): NR  
Input Current (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

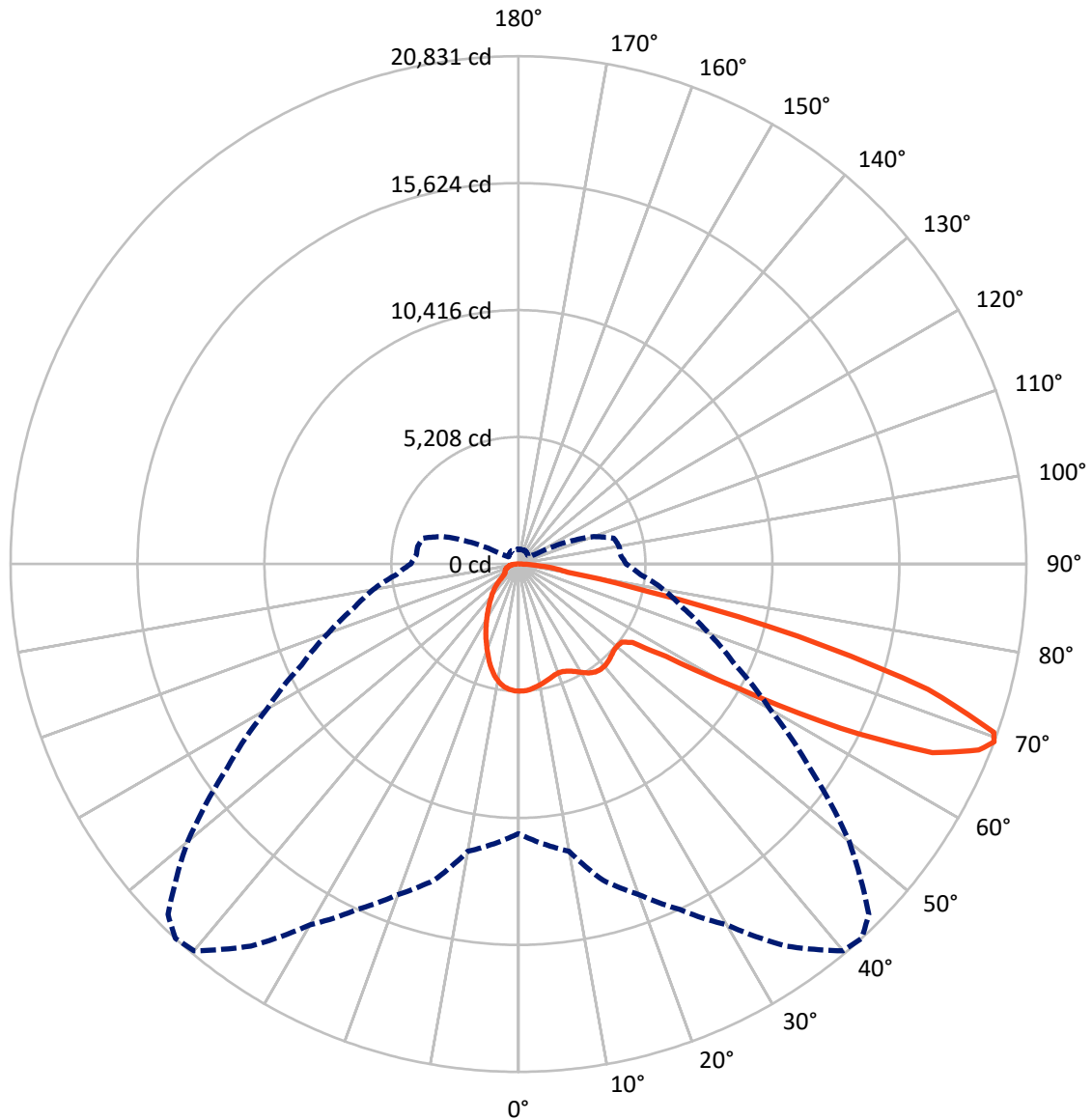
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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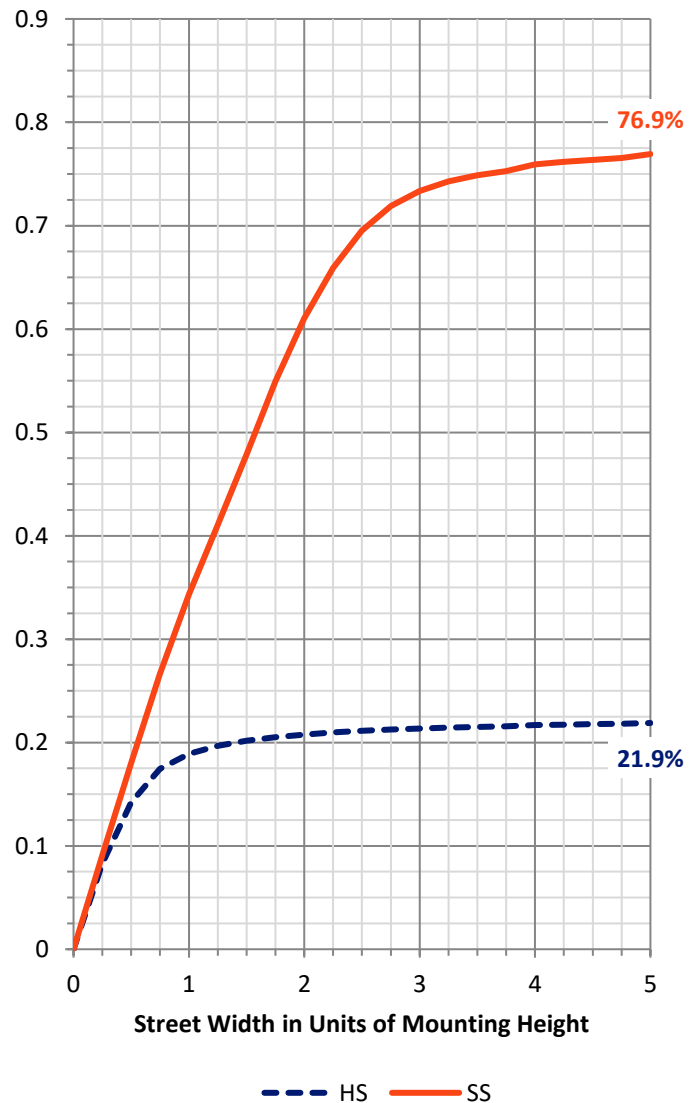
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5443.1	0.0	5443.1
	% Fixture	22.2	0.0	22.2
<b>Street Side</b>	Lumens	19040.5	0.0	19040.5
	% Fixture	77.8	0.0	77.8
<b>Total</b>	Lumens	24483.6	0.0	24483.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.4	2.0
10°-20°	1308.2	5.3
20°-30°	1907.6	7.8
30°-40°	2431.8	9.9
40°-50°	2829.4	11.6
50°-60°	4304.9	17.6
60°-70°	7604.5	31.1
70°-80°	3138.1	12.8
80°-90°	473.8	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°	24483.6	100.0
0°-180°	24483.6	100.0



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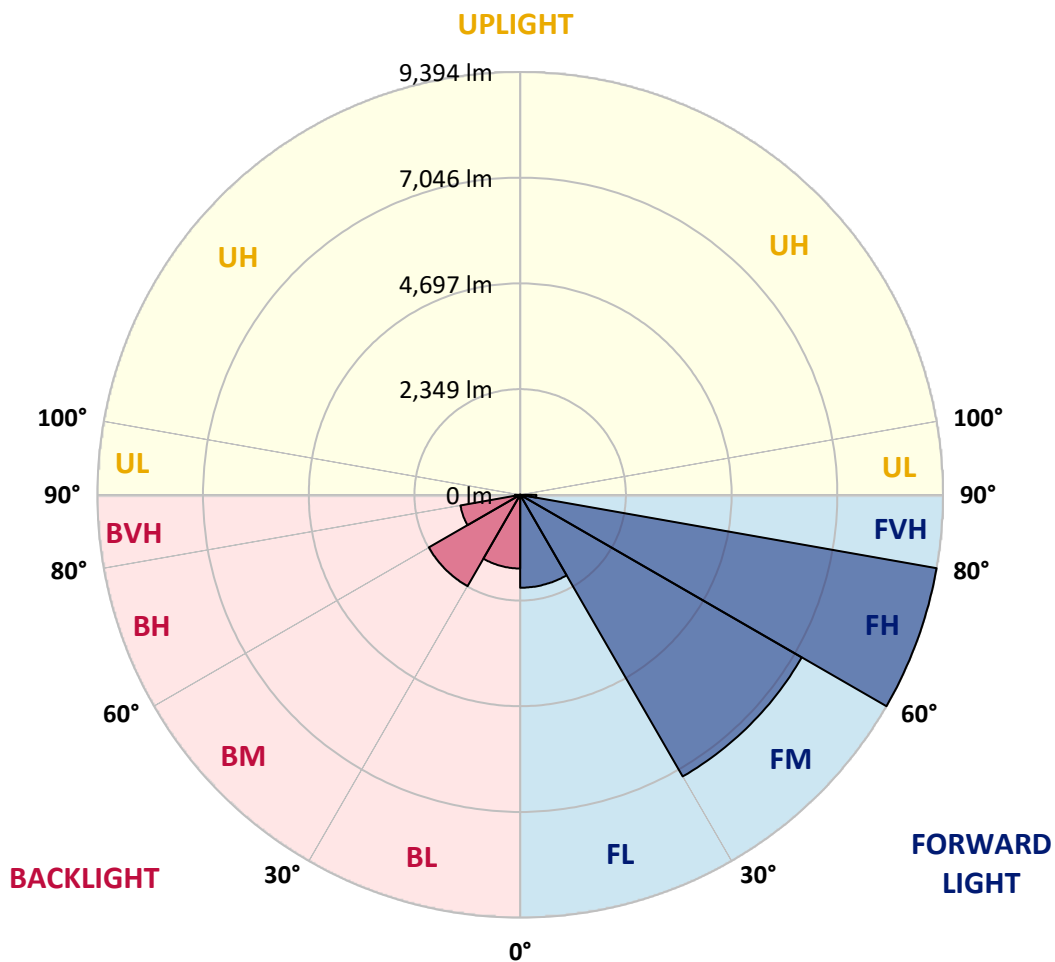
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2064.6	8.4			
FM	(30°-60°)	7223.3	29.5			
FH	(60°-80°)	9394.3	38.4			G4/12000
FVH	(80°-90°)	358.3	1.5			G3/500
BL	(0°-30°)	1636.5	6.7	B3/2500		
BM	(30°-60°)	2342.8	9.6	B2/2500		
BH	(60°-80°)	1348.2	5.5	B3/2500		G3/2500
BVH	(80°-90°)	115.5	0.5			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2
2.5°	5197.3	5215.9	5209.1	5209.1	5214.2	5205.7	5205.7	5209.1	5200.7	5205.7	5204.0
5°	5178.7	5188.9	5185.5	5185.5	5185.5	5178.7	5175.4	5173.7	5161.8	5161.8	5156.8
7.5°	5138.2	5141.6	5146.7	5139.9	5138.2	5136.5	5124.7	5118.0	5104.5	5092.6	5096.0
10°	5084.2	5082.5	5091.0	5085.9	5079.1	5074.1	5063.9	5052.1	5036.9	5021.7	5020.1
12.5°	5023.4	5021.7	5028.5	5025.1	5020.1	5009.9	5001.5	4981.2	4957.6	4939.0	4937.3
15°	4984.6	4979.5	4986.3	4979.5	4971.1	4961.0	4945.8	4920.5	4878.3	4859.7	4844.5
17.5°	5021.7	5013.3	5016.7	5008.2	4996.4	4969.4	4934.0	4880.0	4819.2	4787.1	4763.5
20°	5151.7	5136.5	5139.9	5131.5	5104.5	5069.0	5001.5	4907.0	4804.0	4751.7	4714.5
22.5°	5337.4	5325.6	5330.6	5322.2	5295.2	5241.2	5139.9	5004.9	4858.0	4782.1	4723.0
25°	5619.3	5629.4	5632.8	5594.0	5578.8	5479.2	5339.1	5151.7	4955.9	4866.5	4785.4
27.5°	5936.6	5936.6	5951.8	5936.6	5906.2	5789.8	5592.3	5366.1	5114.6	4993.1	4895.1
30°	6245.5	6242.2	6270.9	6267.5	6218.5	6086.9	5862.4	5587.2	5300.3	5163.5	5038.6
32.5°	6573.0	6583.1	6601.7	6594.9	6530.8	6348.5	6078.4	5779.6	5477.5	5327.3	5187.2
35°	6927.5	6932.5	6939.3	6935.9	6805.9	6576.4	6237.1	5902.9	5588.9	5440.4	5295.2
37.5°	7282.0	7276.9	7268.4	7195.9	7047.3	6728.3	6333.3	5973.8	5644.6	5484.3	5334.0
40°	7599.3	7570.6	7543.6	7430.5	7202.6	6814.4	6370.4	5990.6	5639.5	5474.1	5327.3
42.5°	7773.2	7741.1	7685.4	7543.6	7266.8	6822.8	6345.1	5940.0	5587.2	5423.5	5278.3
45°	7805.2	7781.6	7727.6	7568.9	7251.6	6768.8	6267.5	5857.3	5509.6	5345.8	5209.1
47.5°	7729.3	7710.7	7658.4	7501.4	7185.7	6687.8	6178.0	5769.5	5433.6	5280.0	5148.3
50°	7612.8	7595.9	7555.4	7411.9	7111.5	6632.1	6132.4	5723.9	5408.3	5268.2	5146.7
52.5°	7801.9	7815.4	7697.2	7540.2	7190.8	6681.0	6183.1	5771.2	5453.9	5315.5	5188.9
55°	10740.6	10722.1	10011.4	9415.6	8350.4	7384.9	6664.2	6145.9	5806.7	5668.2	5550.1
57.5°	13956.2	13892.1	13600.1	13043.0	11898.6	10371.0	8981.8	7800.2	7334.3	7135.1	7148.6
60°	15006.2	15029.8	14967.3	14769.8	14359.7	13564.6	12507.9	11620.1	10745.7	10318.6	10367.6
62.5°	15588.5	15630.7	15684.7	15640.8	15507.5	15323.5	15190.1	15271.2	15149.6	14842.4	14597.7
65°	15669.5	15755.6	15934.5	16076.3	16145.5	16319.4	16727.9	17706.9	18601.6	18660.6	18230.2
67.5°	14066.0	14304.0	14692.2	15348.8	15910.9	16528.7	17514.5	19003.3	20323.3	20367.2	19965.4
69°	11059.7	11517.1	11971.2	13438.0	14425.5	15635.8	17094.2	19128.2	20709.8	20831.4	20325.0
70°	8861.9	9133.7	9525.3	10998.9	12474.2	14017.0	16130.4	18716.3	20444.8	20689.6	20130.9
72.5°	5320.5	5425.2	5560.2	6088.6	6848.1	8222.2	11024.2	15259.4	17246.1	17573.6	16862.9
75°	3440.1	3433.4	3445.2	3592.0	3635.9	3899.2	4782.1	7850.8	11250.4	11844.6	10993.8
77.5°	2591.1	2614.7	2577.5	2591.1	2579.2	2650.1	2677.1	2810.5	4441.1	5470.7	4891.8
80°	2287.2	2299.0	2300.7	2294.0	2211.3	2204.5	2248.4	2172.4	2018.8	2049.2	1963.1
82.5°	1304.8	1303.1	1318.3	1433.1	1480.4	1635.7	1699.8	1735.2	1601.9	1502.3	1358.8
85°	845.7	852.4	869.3	904.8	869.3	882.8	867.6	898.0	823.7	764.7	683.6
87.5°	346.0	346.0	368.0	400.1	373.0	366.3	314.0	310.6	263.3	238.0	185.7
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°	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2
2.5°	5193.9	5204.0	5199.0	5205.7	5200.7	5200.7	5193.9	5192.2	5197.3	5190.5	5192.2
5°	5148.3	5150.0	5141.6	5145.0	5134.8	5131.5	5126.4	5112.9	5121.3	5112.9	5116.3
7.5°	5082.5	5077.4	5065.6	5048.8	5036.9	5031.9	5021.7	5003.2	5006.6	4991.4	4999.8
10°	4998.1	4981.2	4961.0	4935.7	4918.8	4903.6	4881.6	4859.7	4847.9	4834.4	4832.7
12.5°	4903.6	4883.3	4856.3	4817.5	4780.4	4755.0	4721.3	4682.5	4670.6	4648.7	4636.9
15°	4800.6	4768.5	4736.5	4692.6	4652.1	4613.3	4567.7	4518.7	4486.7	4452.9	4427.6
17.5°	4707.8	4670.6	4628.4	4586.2	4542.4	4495.1	4437.7	4376.9	4329.7	4267.2	4216.6
20°	4635.2	4587.9	4545.7	4501.8	4452.9	4395.5	4326.3	4248.7	4169.3	4100.1	4041.0
22.5°	4606.5	4532.2	4481.6	4437.7	4388.8	4321.2	4236.8	4145.7	4049.5	3953.3	3875.6
25°	4630.1	4520.4	4441.1	4388.8	4346.6	4277.3	4182.8	4071.4	3960.0	3845.2	3740.6
27.5°	4699.3	4559.2	4444.5	4361.7	4312.8	4243.6	4144.0	4025.8	3894.2	3765.9	3637.6
30°	4807.4	4625.1	4479.9	4363.4	4287.5	4208.1	4103.5	3966.8	3833.4	3686.6	3546.4
32.5°	4912.0	4694.3	4520.4	4370.2	4253.7	4150.7	4034.3	3899.2	3755.8	3602.2	3457.0
35°	4986.3	4739.9	4535.6	4355.0	4201.4	4073.1	3948.2	3813.2	3673.0	3516.1	3367.5
37.5°	5021.7	4765.2	4537.3	4314.5	4132.2	3990.4	3857.0	3723.7	3592.0	3443.5	3303.4
40°	5020.1	4763.5	4513.7	4262.2	4049.5	3899.2	3767.6	3637.6	3514.4	3384.4	3257.8
42.5°	4982.9	4736.5	4479.9	4211.5	3990.4	3823.3	3686.6	3561.6	3457.0	3342.2	3235.9
45°	4925.5	4690.9	4444.5	4187.9	3973.5	3806.4	3661.2	3539.7	3446.9	3342.2	3251.1
47.5°	4881.6	4665.6	4449.5	4230.1	4025.8	3852.0	3698.4	3565.0	3485.7	3401.3	3337.1
50°	4888.4	4677.4	4466.4	4255.4	4063.0	3887.4	3738.9	3617.3	3560.0	3538.0	3522.8
52.5°	4923.8	4696.0	4517.0	4390.4	4324.6	4192.9	4105.2	4029.2	4071.4	3988.7	3890.8
55°	5376.2	5302.0	5475.8	5639.5	5847.2	5924.8	5850.5	5837.0	5904.6	5624.4	4981.2
57.5°	7244.8	7437.2	7705.6	7847.4	8019.6	7974.0	7801.9	7658.4	7489.6	7162.1	6360.3
60°	10423.3	10278.1	10156.6	9813.9	9533.7	9206.3	8841.6	8529.4	8230.6	7759.7	6892.0
62.5°	13698.0	12690.2	11847.9	11034.3	10379.4	9835.9	9307.5	8838.3	8385.9	7729.3	6795.8
65°	16530.4	14408.6	12827.0	11633.6	10676.5	9851.1	9172.5	8524.3	7948.7	7179.0	6255.7
67.5°	17803.1	15144.6	12843.9	11133.9	9808.9	8688.0	7810.3	6831.3	6186.5	5693.6	5173.7
69°	17708.6	14582.5	11927.3	9822.4	8299.8	6993.3	6051.4	5030.2	4412.4	4203.1	4191.3
70°	17259.6	13630.5	10857.1	8757.2	7015.3	5717.2	4814.1	3897.6	3321.9	3178.5	3433.4
72.5°	14091.3	9631.6	6804.3	5195.6	3995.5	3158.2	2575.9	2044.1	1632.3	1414.5	1461.8
75°	7958.8	4459.6	2883.1	2179.2	1841.6	1522.6	1306.5	1114.1	1007.7	818.7	648.2
77.5°	2893.2	1914.2	1522.6	1316.6	933.5	643.1	538.5	470.9	427.1	427.1	406.8
80°	1829.8	1441.5	1006.0	688.7	509.8	443.9	388.2	341.0	314.0	307.2	314.0
82.5°	1142.8	882.8	563.8	432.1	362.9	325.8	283.6	248.1	226.2	221.1	231.3
85°	563.8	437.2	342.7	305.5	287.0	266.7	234.6	200.9	194.1	207.6	243.1
87.5°	168.8	150.2	123.2	128.3	135.0	131.7	104.7	91.2	86.1	113.1	177.2
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2
2.5°	5195.6	5193.9	5197.3	5192.2	5195.6	5197.3	5193.9	5209.1	5199.0	5200.7	5207.4
5°	5119.6	5116.3	5129.8	5126.4	5133.2	5139.9	5136.5	5158.5	5150.0	5156.8	5170.3
7.5°	4993.1	4999.8	5001.5	5001.5	5015.0	5036.9	5042.0	5055.5	5055.5	5074.1	5087.6
10°	4824.3	4825.9	4836.1	4834.4	4851.3	4874.9	4878.3	4901.9	4910.3	4940.7	4959.3
12.5°	4628.4	4620.0	4618.3	4616.6	4638.6	4663.9	4667.3	4707.8	4724.7	4751.7	4782.1
15°	4409.0	4387.1	4380.3	4393.8	4388.8	4403.9	4419.1	4441.1	4464.7	4518.7	4545.7
17.5°	4194.6	4150.7	4138.9	4123.7	4108.5	4108.5	4115.3	4142.3	4191.3	4220.0	4280.7
20°	3975.2	3922.9	3880.7	3840.2	3804.7	3791.2	3792.9	3826.7	3862.1	3909.4	3966.8
22.5°	3791.2	3711.9	3639.3	3585.3	3512.7	3511.0	3500.9	3511.0	3549.8	3561.6	3593.7
25°	3632.5	3526.2	3428.3	3340.5	3269.6	3232.5	3222.4	3219.0	3200.4	3195.3	3171.7
27.5°	3509.3	3381.0	3254.4	3148.1	3060.3	3009.7	2945.5	2900.0	2834.1	2817.2	2775.0
30°	3408.0	3269.6	3131.2	2992.8	2893.2	2802.0	2694.0	2614.7	2513.4	2447.6	2390.2
32.5°	3310.1	3170.0	3029.9	2893.2	2739.6	2597.8	2456.0	2332.8	2219.7	2118.4	2034.0
35°	3229.1	3095.8	2954.0	2788.5	2592.7	2388.5	2218.0	2077.9	1922.6	1816.3	1709.9
37.5°	3176.8	3055.2	2913.5	2685.6	2434.1	2214.6	2020.5	1850.0	1691.4	1531.0	1411.2
40°	3153.2	3046.8	2869.6	2591.1	2295.7	2052.6	1838.2	1649.2	1446.6	1266.0	1137.7
42.5°	3151.5	3043.4	2808.8	2486.4	2180.9	1915.9	1677.9	1451.7	1227.2	1041.5	914.9
45°	3181.8	3038.4	2744.7	2398.6	2079.6	1802.8	1519.2	1244.0	992.5	854.1	786.6
47.5°	3262.9	3046.8	2692.3	2317.6	1983.4	1666.0	1336.9	1016.2	808.5	744.4	744.4
50°	3408.0	3095.8	2678.8	2260.2	1887.2	1507.4	1114.1	820.4	715.7	715.7	736.0
52.5°	3630.8	3198.7	2702.5	2219.7	1767.3	1298.1	877.8	707.3	687.0	705.6	732.6
55°	4144.0	3381.0	2734.5	2150.5	1585.0	1029.7	724.1	668.4	676.9	698.8	724.1
57.5°	5085.9	3771.0	2768.3	1998.6	1291.3	793.4	656.6	653.2	668.4	688.7	710.6
60°	5705.4	4267.2	2854.4	1769.0	977.3	654.9	622.9	643.1	661.7	678.6	695.4
62.5°	5705.4	4407.3	2918.5	1512.4	734.3	595.9	600.9	633.0	654.9	663.4	673.5
65°	5340.8	4150.7	2700.8	1232.2	597.5	562.1	580.7	612.7	633.0	639.7	648.2
67.5°	4667.3	3666.3	2275.4	928.4	533.4	533.4	557.0	580.7	597.5	611.0	624.6
69°	4057.9	3289.9	2003.6	786.6	508.1	511.5	535.1	555.3	575.6	592.5	609.4
70°	3619.0	3008.0	1814.6	714.0	492.9	494.6	518.2	540.2	558.7	577.3	597.5
72.5°	1937.8	2077.9	1379.1	585.7	454.1	459.1	481.1	501.3	518.2	536.8	555.3
75°	660.0	892.9	877.8	479.4	410.2	423.7	437.2	455.8	477.7	489.5	499.6
77.5°	386.5	400.1	467.6	389.9	369.7	376.4	391.6	406.8	425.4	437.2	445.6
80°	324.1	322.4	324.1	317.3	322.4	337.6	347.7	368.0	384.9	388.2	386.5
82.5°	263.3	276.8	278.5	275.1	290.3	302.1	310.6	322.4	320.7	324.1	330.8
85°	234.6	232.9	244.8	246.4	246.4	238.0	239.7	239.7	239.7	244.8	246.4
87.5°	234.6	195.8	151.9	136.7	143.5	135.0	128.3	126.6	140.1	153.6	150.2
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°	5214.2	5214.2	5214.2	5214.2	5214.2
2.5°	5210.8	5215.9	5212.5	5212.5	5215.9
5°	5175.4	5183.8	5180.4	5183.8	5183.8
7.5°	5094.3	5106.1	5114.6	5123.0	5118.0
10°	4977.9	4998.1	5011.6	5021.7	5016.7
12.5°	4804.0	4822.6	4851.3	4868.1	4854.6
15°	4566.0	4618.3	4635.2	4658.8	4645.3
17.5°	4317.9	4349.9	4370.2	4392.1	4405.6
20°	3987.0	4012.3	4039.3	4049.5	4034.3
22.5°	3588.6	3602.2	3597.1	3612.3	3581.9
25°	3151.5	3159.9	3154.8	3168.3	3143.0
27.5°	2737.9	2736.2	2737.9	2721.0	2704.1
30°	2339.5	2324.4	2317.6	2292.3	2287.2
32.5°	1983.4	1931.1	1904.0	1866.9	1858.5
35°	1627.2	1552.9	1504.0	1461.8	1443.2
37.5°	1308.2	1218.7	1161.3	1124.2	1119.1
40°	1034.7	952.0	911.5	891.3	887.9
42.5°	844.0	808.5	798.4	798.4	798.4
45°	769.7	768.0	776.5	783.2	784.9
47.5°	754.5	764.7	776.5	786.6	790.0
50°	754.5	764.7	773.1	783.2	786.6
52.5°	751.2	759.6	763.0	769.7	773.1
55°	741.0	746.1	746.1	749.5	752.8
57.5°	724.1	727.5	722.5	725.8	734.3
60°	707.3	710.6	702.2	710.6	715.7
62.5°	688.7	690.4	687.0	693.8	693.8
65°	658.3	654.9	660.0	665.1	666.8
67.5°	627.9	619.5	624.6	626.2	629.6
69°	604.3	599.2	600.9	604.3	607.7
70°	587.4	584.0	587.4	592.5	597.5
72.5°	545.2	546.9	558.7	568.8	579.0
75°	506.4	518.2	533.4	555.3	567.2
77.5°	459.1	467.6	479.4	503.0	525.0
80°	396.7	401.7	403.4	411.9	410.2
82.5°	322.4	317.3	314.0	310.6	308.9
85°	231.3	229.6	216.1	205.9	205.9
87.5°	138.4	131.7	124.9	116.5	111.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)