

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: P158410

Luminaire Tested: **VTS-E12-LED-E1-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158410  
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-E12-LED-E1-SL3  
Description: VENTUS LED SITE LUMINAIRE  
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (252) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

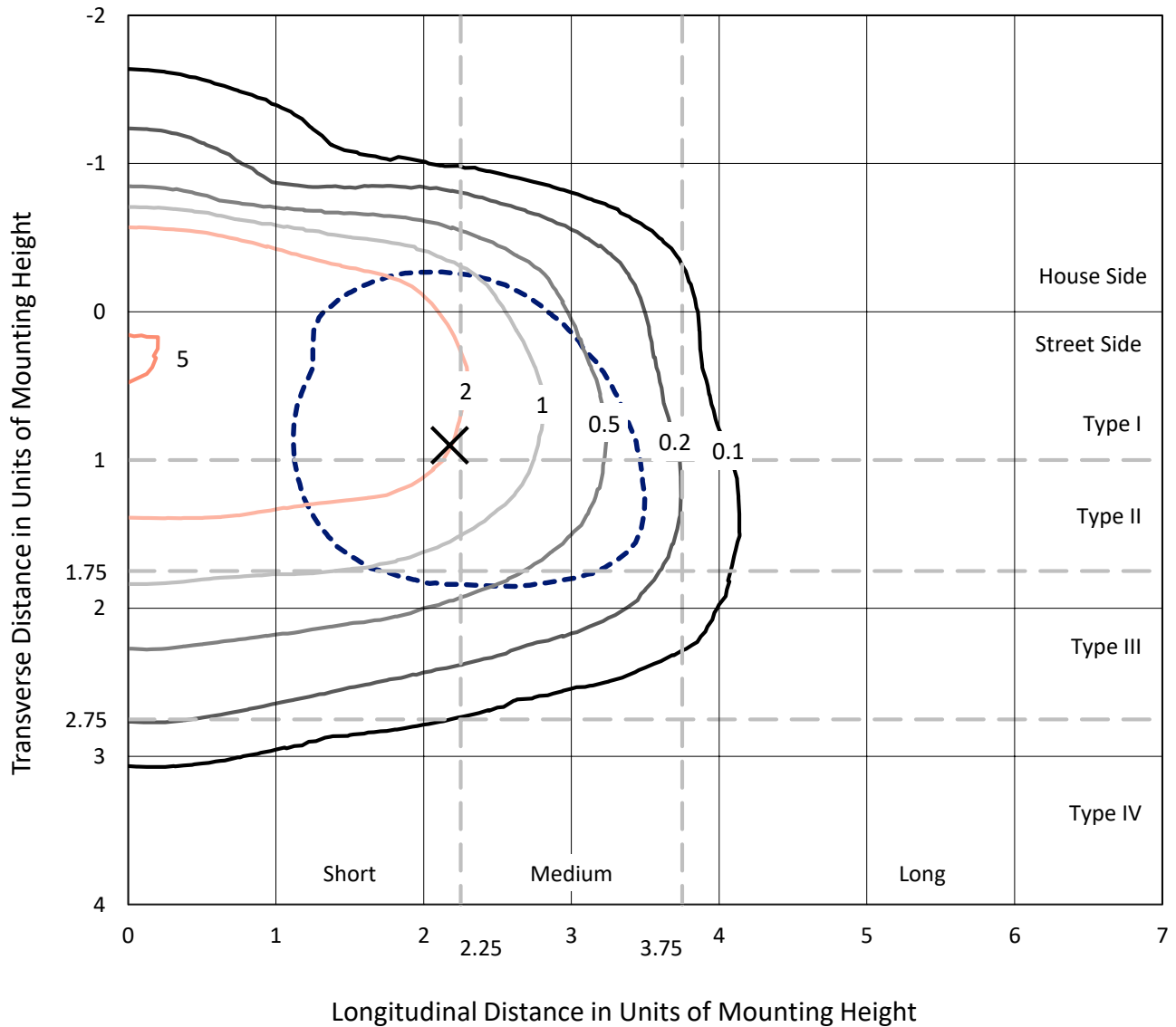
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36202.4 lumens  
Efficiency: N/A  
Efficacy: 124.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 291.7  
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

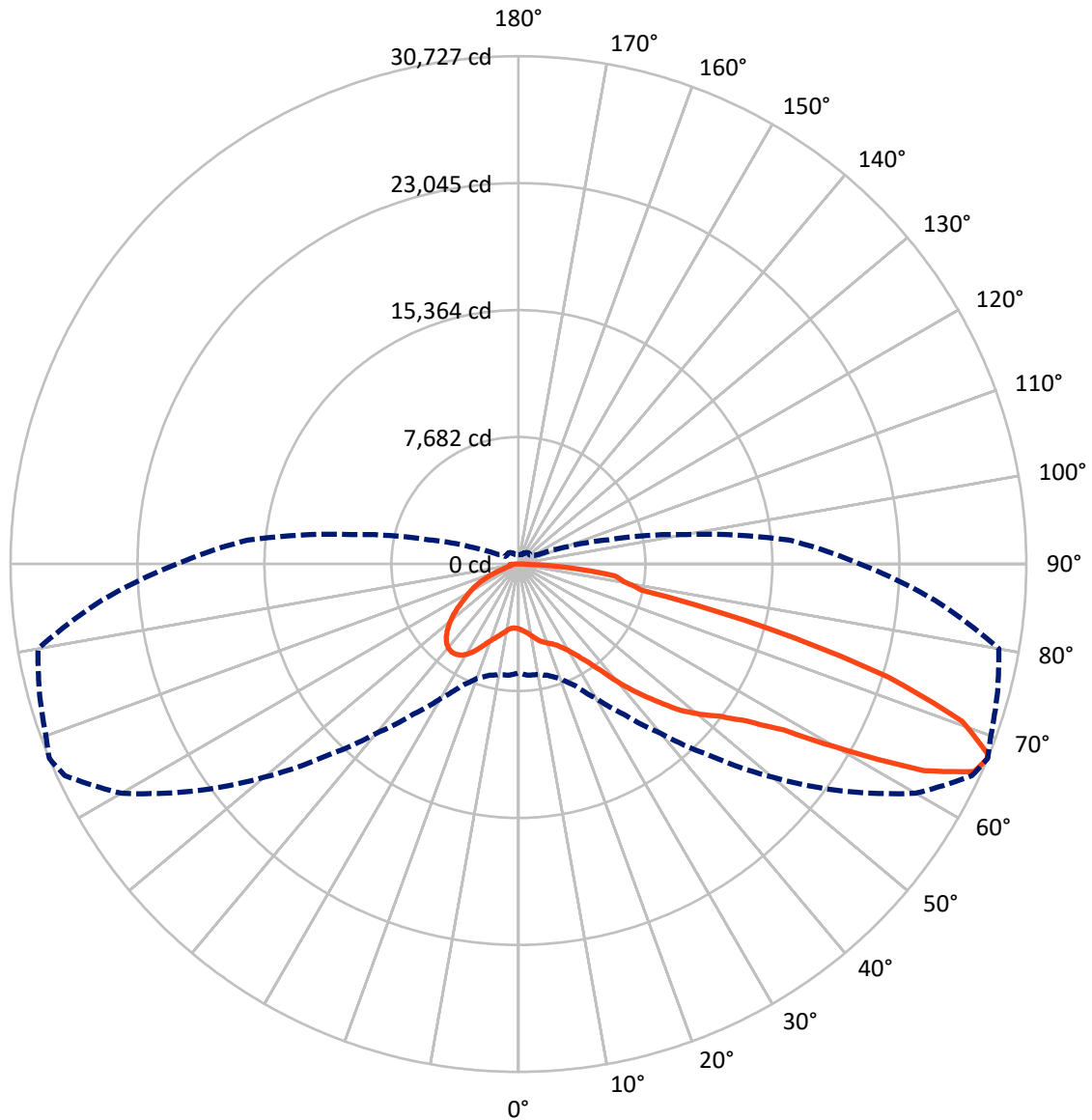
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	8685.0	0.0	8685.0
	% Fixture	24.0	0.0	24.0
<b>Street Side</b>	Lumens	27517.4	0.0	27517.4
	% Fixture	76.0	0.0	76.0
<b>Total</b>	Lumens	36202.4	0.0	36202.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.0	1.1
10°-20°	1328.7	3.7
20°-30°	2372.2	6.6
30°-40°	3476.6	9.6
40°-50°	5371.8	14.8
50°-60°	7822.3	21.6
60°-70°	10189.8	28.1
70°-80°	4561.3	12.6
80°-90°	689.7	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°	36202.4	100.0
0°-180°	36202.4	100.0



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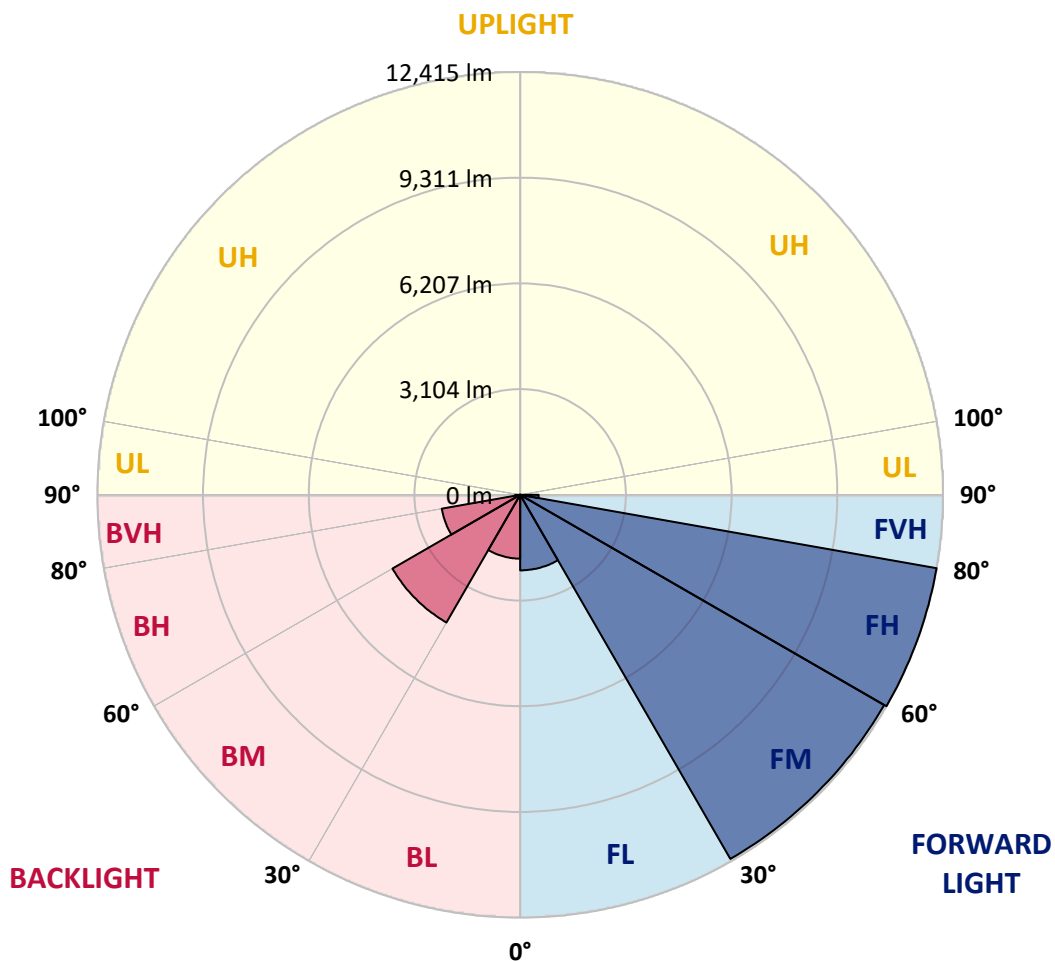
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2218.1	6.1			
FM	(30°-60°)	12343.1	34.1			
FH	(60°-80°)	12414.5	34.3			G5
FVH	(80°-90°)	541.6	1.5			G4/750
BL	(0°-30°)	1872.8	5.2	B3/2500		
BM	(30°-60°)	4327.6	12.0	B3/5000		
BH	(60°-80°)	2336.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	148.1	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0
2.5°	4077.6	4087.2	4089.6	4087.2	4089.6	4080.0	4077.6	4063.2	4070.4	4051.2	4046.4
5°	4298.4	4305.6	4310.4	4291.2	4296.0	4286.4	4274.4	4260.0	4240.8	4214.4	4197.6
7.5°	4514.4	4526.4	4524.0	4516.8	4500.0	4490.4	4466.4	4444.8	4411.2	4380.0	4358.4
10°	4804.8	4802.4	4802.4	4761.6	4737.6	4716.0	4672.8	4639.2	4605.6	4560.0	4536.0
12.5°	5140.8	5124.0	5116.8	5088.0	5037.6	4999.2	4936.8	4872.0	4812.0	4764.0	4725.6
15°	5464.8	5464.8	5445.6	5400.0	5352.0	5301.6	5212.8	5119.2	5020.8	4944.0	4905.6
17.5°	5760.0	5733.6	5716.8	5656.8	5606.4	5524.8	5426.4	5325.6	5203.2	5095.2	5020.8
20°	5976.0	5954.4	5918.4	5844.0	5757.6	5661.6	5546.4	5428.8	5296.8	5179.2	5095.2
22.5°	6100.8	6074.4	6019.2	5920.8	5803.2	5668.8	5534.4	5424.0	5304.0	5215.2	5145.6
25°	6165.6	6139.2	6064.8	5935.2	5776.8	5599.2	5445.6	5337.6	5268.0	5246.4	5236.8
27.5°	6163.2	6141.6	6062.4	5913.6	5709.6	5505.6	5340.0	5248.8	5241.6	5325.6	5388.0
30°	6100.8	6086.4	6014.4	5865.6	5652.0	5438.4	5284.8	5236.8	5311.2	5488.8	5642.4
32.5°	6038.4	6031.2	5980.8	5846.4	5664.0	5484.0	5378.4	5383.2	5536.8	5810.4	6057.6
35°	6045.6	6055.2	6048.0	5976.0	5860.8	5767.2	5716.8	5822.4	6062.4	6393.6	6724.8
37.5°	6108.0	6144.0	6189.6	6196.8	6199.2	6184.8	6290.4	6513.6	6864.0	7296.0	7814.4
40°	6244.8	6285.6	6417.6	6532.8	6681.6	6859.2	7072.8	7382.4	7816.8	8349.6	8985.6
42.5°	6669.6	6727.2	6890.4	7104.0	7377.6	7656.0	7975.2	8397.6	8930.4	9492.0	10159.2
45°	7224.0	7344.0	7524.0	7761.6	8172.0	8563.2	8976.0	9448.8	10015.2	10718.4	11390.4
47.5°	7915.2	8035.2	8296.8	8551.2	9036.0	9523.2	9974.4	10468.8	11083.2	11803.2	12547.2
50°	8520.0	8656.8	8889.6	9232.8	9794.4	10392.0	10891.2	11426.4	11942.4	12700.8	13452.0
52.5°	8995.2	9093.6	9316.8	9631.2	10257.6	10912.8	11544.0	12139.2	12751.2	13509.6	14205.6
55°	9055.2	9146.4	9364.8	9724.8	10360.8	11088.0	11815.2	12520.8	13387.2	14215.2	15136.8
57.5°	8796.0	8870.4	9091.2	9412.8	10032.0	10860.0	11779.2	12684.0	13792.8	14911.2	16036.8
60°	8428.8	8503.2	8676.0	8932.8	9492.0	10384.8	11457.6	12696.0	14169.6	15784.8	17440.8
62.5°	8025.6	8090.4	8229.6	8412.0	8904.0	9727.2	10956.0	12616.8	14476.8	16653.6	19207.2
65°	7346.4	7502.4	7562.4	7749.6	8241.6	9019.2	10269.6	12081.6	14352.0	17040.0	20316.0
67°	6595.2	6753.6	6784.8	6974.4	7368.0	8114.4	9386.4	11090.4	13363.2	16372.8	20071.2
67.5°	6355.2	6489.6	6537.6	6727.2	7099.2	7802.4	9009.6	10732.8	13060.8	16008.0	19776.0
70°	4672.8	4821.6	4874.4	4953.6	5220.0	5805.6	6604.8	8100.0	10413.6	13063.2	16682.4
72.5°	2500.8	2620.8	2671.2	2788.8	2925.6	3244.8	3856.8	4929.6	6391.2	8740.8	11868.0
75°	1692.0	1740.0	1776.0	1857.6	1999.2	2253.6	2522.4	2899.2	3782.4	4932.0	6753.6
77.5°	964.8	986.4	991.2	1005.6	1118.4	1360.8	1802.4	2440.8	3129.6	3573.6	4320.0
80°	417.6	460.8	494.4	472.8	465.6	516.0	645.6	962.4	1886.4	2995.2	3554.4
82.5°	225.6	244.8	273.6	276.0	290.4	307.2	333.6	396.0	556.8	1123.2	2450.4
85°	117.6	122.4	163.2	187.2	199.2	208.8	213.6	237.6	273.6	348.0	609.6
87.5°	16.8	24.0	28.8	38.4	43.2	45.6	52.8	67.2	79.2	96.0	163.2
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):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0
2.5°	4024.8	4020.0	4005.6	3996.0	3986.4	3976.8	3964.8	3955.2	3938.4	3926.4	3912.0
5°	4173.6	4144.8	4125.6	4099.2	4094.4	4063.2	4032.0	4017.6	3988.8	3964.8	3936.0
7.5°	4324.8	4291.2	4260.0	4238.4	4226.4	4183.2	4152.0	4116.0	4082.4	4051.2	4017.6
10°	4502.4	4468.8	4435.2	4420.8	4399.2	4358.4	4332.0	4286.4	4252.8	4214.4	4168.8
12.5°	4687.2	4663.2	4639.2	4620.0	4610.4	4591.2	4552.8	4514.4	4468.8	4430.4	4377.6
15°	4850.4	4833.6	4824.0	4819.2	4819.2	4807.2	4771.2	4735.2	4687.2	4644.0	4586.4
17.5°	4965.6	4958.4	4965.6	4972.8	4982.4	4972.8	4965.6	4924.8	4893.6	4840.8	4783.2
20°	5032.8	5047.2	5083.2	5107.2	5128.8	5145.6	5152.8	5119.2	5078.4	5040.0	5001.6
22.5°	5104.8	5145.6	5208.0	5244.0	5280.0	5340.0	5354.4	5330.4	5299.2	5275.2	5234.4
25°	5224.8	5284.8	5392.8	5450.4	5500.8	5589.6	5601.6	5606.4	5599.2	5580.0	5529.6
27.5°	5412.0	5529.6	5673.6	5748.0	5803.2	5918.4	5964.0	5964.0	5944.8	5966.4	5966.4
30°	5738.4	5894.4	6081.6	6124.8	6211.2	6312.0	6386.4	6396.0	6398.4	6444.0	6511.2
32.5°	6240.0	6388.8	6597.6	6645.6	6720.0	6816.0	6900.0	6890.4	6912.0	7010.4	7099.2
35°	6969.6	7120.8	7257.6	7322.4	7356.0	7442.4	7473.6	7526.4	7591.2	7713.6	7701.6
37.5°	8049.6	8184.0	8203.2	8244.0	8203.2	8220.0	8244.0	8306.4	8479.2	8589.6	8412.0
40°	9350.4	9573.6	9552.0	9504.0	9412.8	9290.4	9333.6	9429.6	9616.8	9520.8	9043.2
42.5°	10576.8	10807.2	10764.0	10708.8	10507.2	10461.6	10456.8	10536.0	10636.8	10363.2	9537.6
45°	11784.0	12019.2	11944.8	11913.6	11779.2	11680.8	11762.4	11767.2	11740.8	11155.2	9969.6
47.5°	13029.6	13245.6	13197.6	13224.0	13084.8	13020.0	13027.2	12993.6	12746.4	11827.2	10305.6
50°	14035.2	14325.6	14354.4	14294.4	14220.0	14121.6	14373.6	14282.4	13732.8	12480.0	10629.6
52.5°	14817.6	15208.8	15357.6	15319.2	15259.2	15271.2	15744.0	15847.2	14937.6	13303.2	10987.2
55°	15744.0	16360.8	16603.2	16747.2	16684.8	16924.8	18007.2	18060.0	16612.8	14378.4	11452.8
57.5°	17080.8	17964.0	18729.6	18933.6	19130.4	19910.4	21667.2	21132.0	18787.2	16005.6	12043.2
60°	19113.6	21048.0	22291.2	22944.0	23404.8	24494.4	26164.8	24808.8	21496.8	17942.4	12784.8
62.5°	21960.0	24787.2	26865.6	27520.8	27710.4	28336.8	29546.4	26952.0	22972.8	18811.2	12849.6
65°	24079.2	27470.4	29959.2	30295.2	30069.6	30081.6	30398.4	26839.2	22423.2	18052.8	11736.0
67°	23940.0	27736.8	30285.6	30727.2	30415.2	30004.8	29510.4	25310.4	20656.8	16464.0	10276.8
67.5°	23726.4	27480.0	30144.0	30609.6	30324.0	29856.0	29133.6	24717.6	20107.2	15969.6	9979.2
70°	20510.4	24237.6	27825.6	28480.8	28600.8	28173.6	26145.6	20841.6	16324.8	12991.2	7749.6
72.5°	15964.8	19284.0	22833.6	23402.4	23863.2	22632.0	19029.6	14395.2	11899.2	9362.4	5611.2
75°	10540.8	13917.6	15708.0	15792.0	15204.0	12924.0	9297.6	7209.6	6636.0	5503.2	3472.8
77.5°	5640.0	8184.0	8234.4	7624.8	7346.4	5476.8	2222.4	1226.4	1365.6	1550.4	1382.4
80°	4207.2	5212.8	6040.8	6494.4	6628.8	4696.8	1149.6	650.4	568.8	518.4	511.2
82.5°	3794.4	5035.2	5644.8	5892.0	5829.6	3864.0	645.6	436.8	362.4	393.6	448.8
85°	1488.0	2688.0	3535.2	3422.4	2875.2	1440.0	352.8	235.2	235.2	340.8	441.6
87.5°	304.8	552.0	748.8	715.2	643.2	278.4	172.8	141.6	144.0	276.0	417.6
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0	3924.0
2.5°	3897.6	3883.2	3873.6	3864.0	3854.4	3849.6	3842.4	3842.4	3828.0	3823.2	3818.4
5°	3914.4	3890.4	3873.6	3852.0	3835.2	3820.8	3801.6	3796.8	3780.0	3768.0	3763.2
7.5°	3986.4	3950.4	3914.4	3888.0	3864.0	3832.8	3811.2	3792.0	3775.2	3763.2	3748.8
10°	4123.2	4084.8	4034.4	3986.4	3955.2	3907.2	3873.6	3840.0	3820.8	3806.4	3787.2
12.5°	4324.8	4269.6	4209.6	4152.0	4099.2	4036.8	4003.2	3962.4	3938.4	3926.4	3912.0
15°	4531.2	4471.2	4396.8	4341.6	4281.6	4233.6	4202.4	4166.4	4147.2	4132.8	4123.2
17.5°	4742.4	4672.8	4620.0	4564.8	4536.0	4500.0	4459.2	4413.6	4358.4	4324.8	4279.2
20°	4958.4	4905.6	4874.4	4843.2	4809.6	4759.2	4677.6	4584.0	4480.8	4382.4	4288.8
22.5°	5210.4	5179.2	5174.4	5145.6	5076.0	4956.0	4804.8	4629.6	4454.4	4291.2	4164.0
25°	5565.6	5565.6	5541.6	5424.0	5260.8	5044.8	4790.4	4538.4	4305.6	4082.4	3914.4
27.5°	6012.0	5995.2	5877.6	5635.2	5342.4	5006.4	4665.6	4346.4	4048.8	3804.0	3588.0
30°	6504.0	6386.4	6134.4	5752.8	5313.6	4881.6	4464.0	4094.4	3744.0	3444.0	3189.6
32.5°	7015.2	6729.6	6276.0	5752.8	5212.8	4694.4	4212.0	3758.4	3357.6	3021.6	2719.2
35°	7478.4	6957.6	6309.6	5659.2	5016.0	4418.4	3859.2	3345.6	2865.6	2503.2	2172.0
37.5°	7898.4	7108.8	6273.6	5476.8	4730.4	4029.6	3374.4	2808.0	2265.6	1915.2	1632.0
40°	8172.0	7140.0	6124.8	5191.2	4322.4	3504.0	2779.2	2145.6	1716.0	1396.8	1207.2
42.5°	8342.4	7080.0	5884.8	4800.0	3772.8	2844.0	2085.6	1538.4	1219.2	1041.6	969.6
45°	8438.4	6924.0	5529.6	4264.8	3108.0	2162.4	1480.8	1111.2	938.4	876.0	852.0
47.5°	8433.6	6672.0	5085.6	3645.6	2373.6	1507.2	1048.8	866.4	818.4	799.2	794.4
50°	8383.2	6362.4	4564.8	2973.6	1713.6	1051.2	830.4	777.6	765.6	753.6	748.8
52.5°	8313.6	5978.4	3988.8	2318.4	1216.8	840.0	753.6	739.2	729.6	717.6	712.8
55°	8184.0	5505.6	3364.8	1744.8	952.8	758.4	727.2	722.4	710.4	693.6	684.0
57.5°	8025.6	5025.6	2767.2	1363.2	842.4	739.2	722.4	715.2	698.4	679.2	660.0
60°	7968.0	4629.6	2299.2	1149.6	816.0	746.4	734.4	724.8	700.8	672.0	650.4
62.5°	7608.0	4183.2	1963.2	1065.6	830.4	777.6	772.8	758.4	722.4	688.8	655.2
65°	6676.8	3537.6	1663.2	1008.0	859.2	830.4	835.2	813.6	777.6	732.0	672.0
67°	5647.2	2884.8	1384.8	952.8	880.8	885.6	902.4	885.6	840.0	775.2	693.6
67.5°	5373.6	2719.2	1315.2	936.0	885.6	900.0	919.2	907.2	861.6	787.2	703.2
70°	3993.6	1915.2	981.6	847.2	885.6	943.2	986.4	998.4	948.0	844.8	722.4
72.5°	2812.8	1236.0	753.6	734.4	804.0	880.8	962.4	1003.2	945.6	832.8	696.0
75°	1689.6	772.8	612.0	624.0	676.8	756.0	820.8	837.6	765.6	693.6	602.4
77.5°	782.4	513.6	480.0	496.8	547.2	583.2	583.2	549.6	494.4	451.2	432.0
80°	460.8	420.0	417.6	448.8	482.4	456.0	415.2	369.6	340.8	326.4	319.2
82.5°	432.0	448.8	477.6	484.8	458.4	393.6	343.2	297.6	283.2	276.0	268.8
85°	508.8	544.8	496.8	458.4	405.6	331.2	268.8	230.4	223.2	216.0	206.4
87.5°	470.4	448.8	391.2	336.0	278.4	201.6	146.4	132.0	141.6	139.2	134.4
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°	3924.0	3924.0	3924.0	3924.0	3924.0
2.5°	3820.8	3820.8	3811.2	3806.4	3818.4
5°	3753.6	3756.0	3748.8	3746.4	3748.8
7.5°	3739.2	3736.8	3732.0	3727.2	3732.0
10°	3782.4	3780.0	3772.8	3777.6	3770.4
12.5°	3912.0	3926.4	3924.0	3928.8	3938.4
15°	4123.2	4120.8	4113.6	4118.4	4125.6
17.5°	4243.2	4224.0	4207.2	4200.0	4200.0
20°	4214.4	4159.2	4130.4	4113.6	4108.8
22.5°	4044.0	3964.8	3904.8	3890.4	3878.4
25°	3765.6	3667.2	3590.4	3573.6	3542.4
27.5°	3441.6	3309.6	3218.4	3199.2	3182.4
30°	3016.8	2865.6	2760.0	2692.8	2714.4
32.5°	2498.4	2354.4	2232.0	2124.0	2107.2
35°	1929.6	1771.2	1663.2	1615.2	1584.0
37.5°	1440.0	1308.0	1236.0	1190.4	1192.8
40°	1101.6	1032.0	993.6	962.4	964.8
42.5°	919.2	888.0	878.4	864.0	856.8
45°	832.8	823.2	825.6	811.2	806.4
47.5°	784.8	777.6	780.0	770.4	768.0
50°	746.4	741.6	744.0	736.8	734.4
52.5°	708.0	710.4	708.0	703.2	703.2
55°	674.4	672.0	676.8	669.6	669.6
57.5°	648.0	645.6	645.6	643.2	643.2
60°	633.6	624.0	621.6	621.6	624.0
62.5°	626.4	609.6	607.2	607.2	609.6
65°	628.8	602.4	592.8	590.4	588.0
67°	631.2	592.8	573.6	564.0	561.6
67.5°	633.6	588.0	566.4	556.8	552.0
70°	619.2	554.4	523.2	506.4	501.6
72.5°	583.2	513.6	475.2	453.6	448.8
75°	518.4	465.6	432.0	408.0	398.4
77.5°	400.8	376.8	364.8	350.4	345.6
80°	312.0	300.0	295.2	285.6	283.2
82.5°	259.2	247.2	240.0	228.0	220.8
85°	201.6	187.2	182.4	172.8	168.0
87.5°	132.0	124.8	122.4	110.4	105.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)