

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: P158190

Luminaire Tested: **VTS-E12-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158190
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
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-SL2
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (252) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

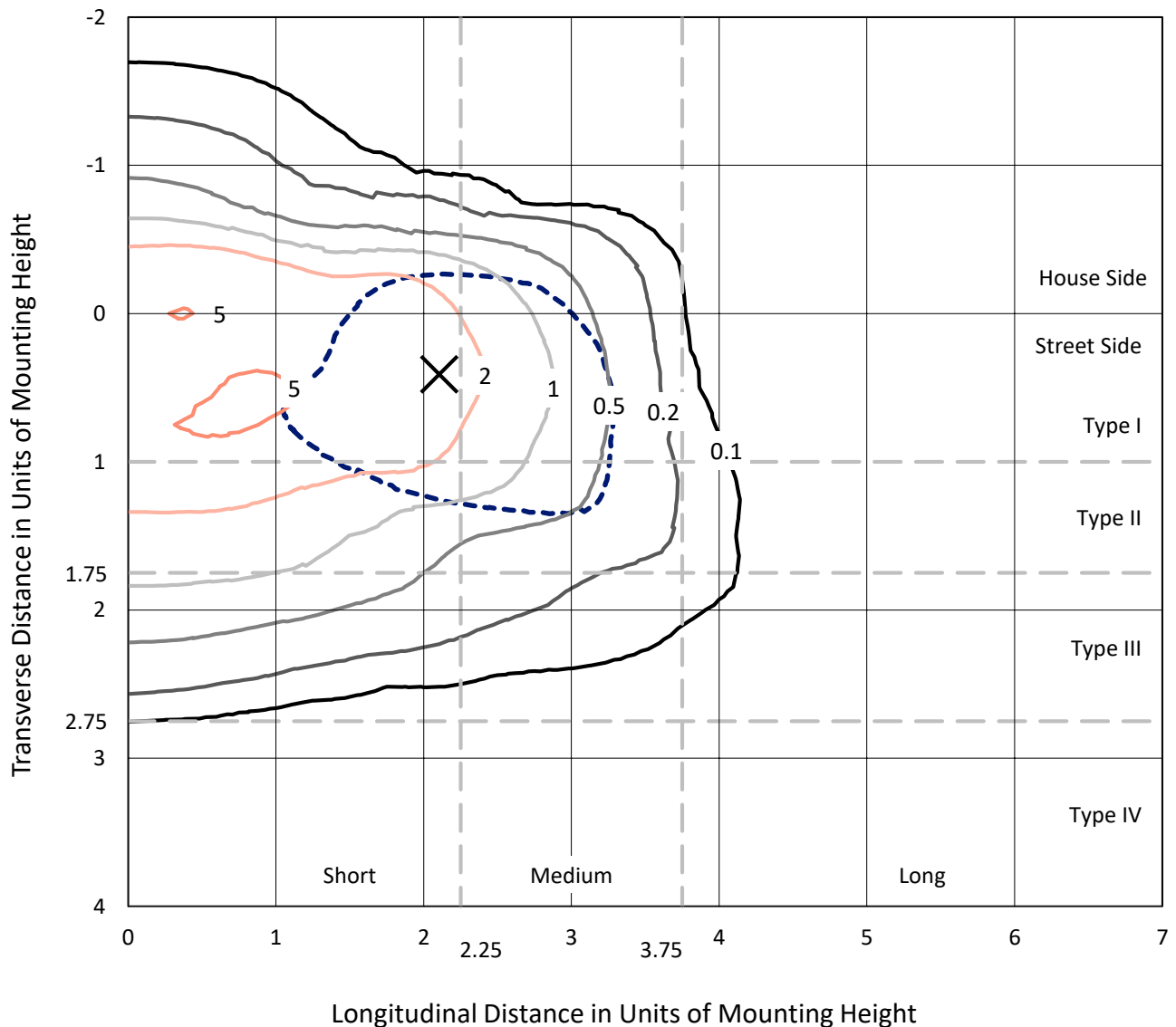
Lumens per Lamp: N/A
Luminaire Lumens: 36105.2 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B4 - U0 - G4

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

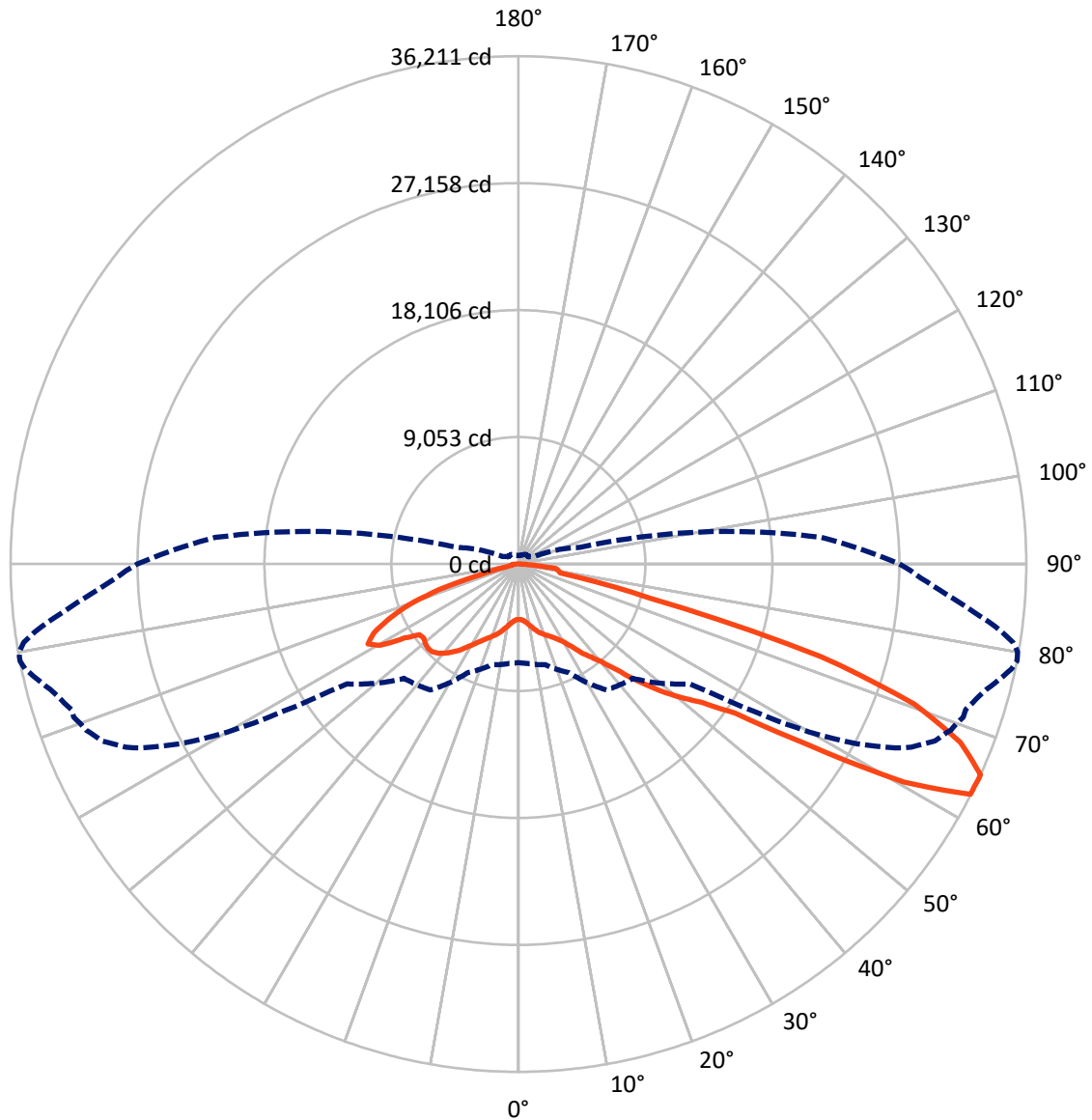
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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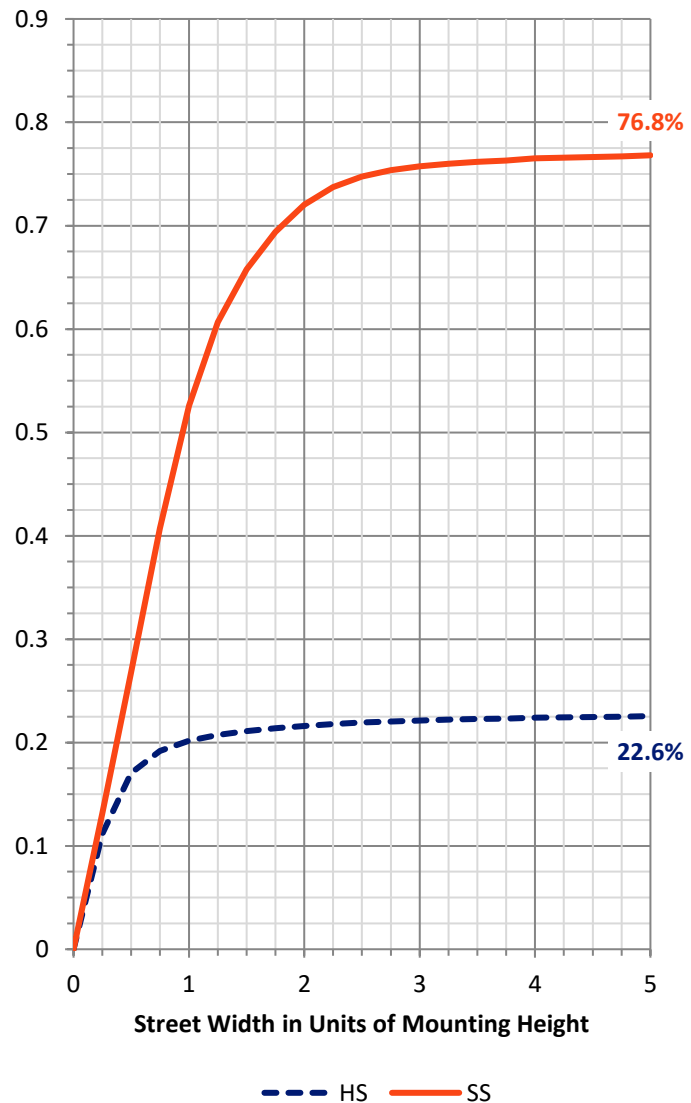
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8296.3	0.0	8296.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	27808.9	0.0	27808.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	36105.2	0.0	36105.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.8	1.1
10°-20°	1269.4	3.5
20°-30°	2188.3	6.1
30°-40°	3584.4	9.9
40°-50°	6002.6	16.6
50°-60°	8119.4	22.5
60°-70°	9999.0	27.7
70°-80°	3870.5	10.7
80°-90°	680.7	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°	36105.2	100.0
0°-180°	36105.2	100.0



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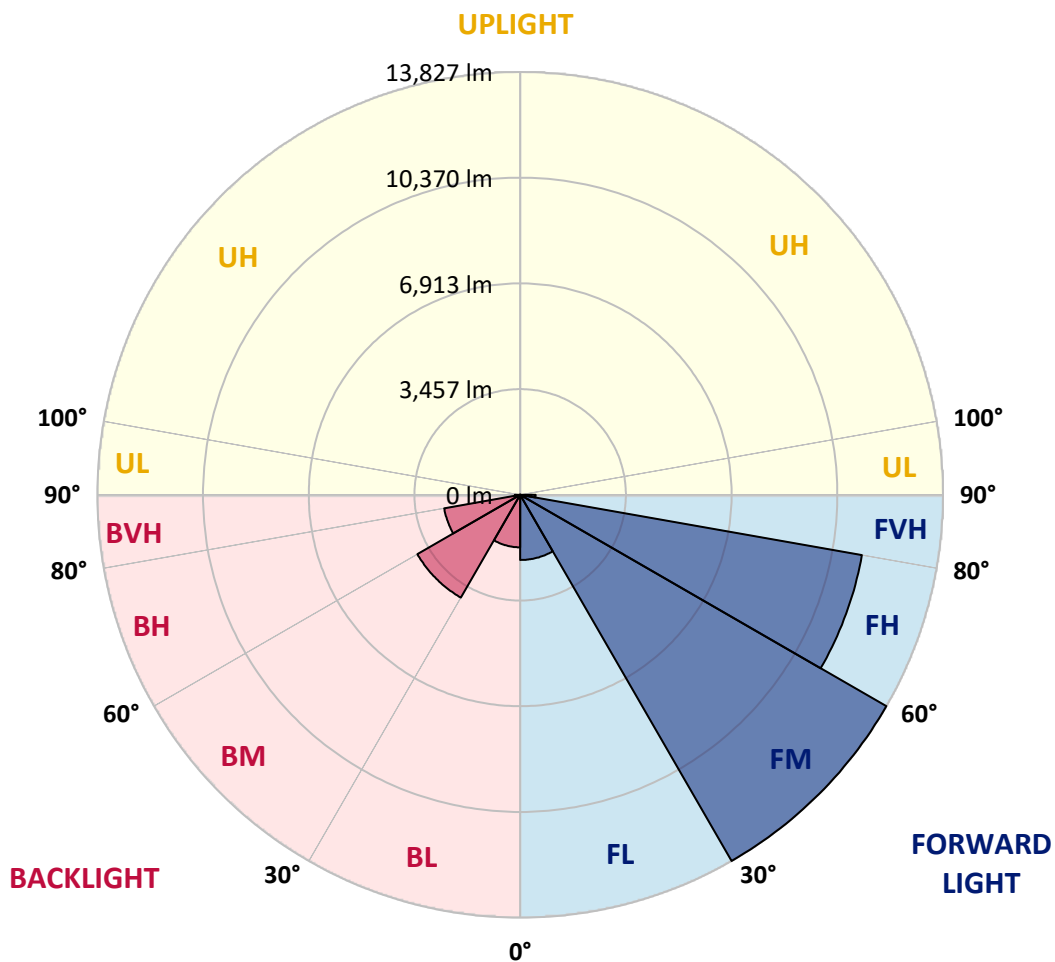
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.6	5.9			
FM (30°-60°)	13826.7	38.3			
FH (60°-80°)	11345.5	31.4			G4/12000
FVH (80°-90°)	505.1	1.4			G4/750
BL (0°-30°)	1716.9	4.8	B3/2500		
BM (30°-60°)	3879.7	10.7	B3/5000		
BH (60°-80°)	2524.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	175.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4
2.5°	3957.6	3945.6	3957.6	3967.2	3974.4	3984.0	3981.6	3979.2	3976.8	3979.2	3979.2
5°	3991.2	3988.8	4000.8	4010.4	4027.2	4039.2	4053.6	4053.6	4053.6	4051.2	4056.0
7.5°	4099.2	4096.8	4108.8	4118.4	4132.8	4156.8	4176.0	4185.6	4183.2	4183.2	4183.2
10°	4276.8	4267.2	4267.2	4267.2	4286.4	4303.2	4346.4	4351.2	4360.8	4356.0	4358.4
12.5°	4449.6	4452.0	4444.8	4437.6	4440.0	4473.6	4536.0	4548.0	4550.4	4557.6	4562.4
15°	4605.6	4603.2	4586.4	4569.6	4591.2	4648.8	4730.4	4752.0	4752.0	4766.4	4776.0
17.5°	4749.6	4744.8	4713.6	4684.8	4706.4	4804.8	4932.0	4946.4	4968.0	4975.2	4984.8
20°	4920.0	4910.4	4874.4	4797.6	4797.6	4932.0	5100.0	5114.4	5133.6	5138.4	5155.2
22.5°	5157.6	5133.6	5056.8	4917.6	4879.2	5035.2	5241.6	5248.8	5263.2	5282.4	5296.8
25°	5426.4	5431.2	5306.4	5064.0	4980.0	5143.2	5378.4	5390.4	5416.8	5431.2	5448.0
27.5°	5704.8	5712.0	5572.8	5270.4	5128.8	5292.0	5563.2	5577.6	5608.8	5625.6	5652.0
30°	6021.6	6031.2	5896.8	5592.0	5376.0	5510.4	5836.8	5875.2	5901.6	5923.2	5966.4
32.5°	6782.4	6724.8	6631.2	6307.2	5966.4	5956.8	6278.4	6321.6	6357.6	6403.2	6444.0
35°	7740.0	7776.0	7824.0	7605.6	7305.6	7087.2	7113.6	7089.6	7123.2	7190.4	7231.2
37.5°	8498.4	8577.6	8786.4	8928.0	8916.0	8872.8	8469.6	8469.6	8491.2	8455.2	8450.4
40°	9093.6	9144.0	9571.2	10120.8	10584.0	10812.0	10492.8	10447.2	10471.2	10286.4	10293.6
42.5°	9400.8	9475.2	10089.6	11054.4	11973.6	12705.6	12607.2	12576.0	12504.0	12458.4	12429.6
45°	9556.8	9645.6	10377.6	11702.4	13041.6	14172.0	14680.8	14676.0	14611.2	14558.4	14534.4
47.5°	9477.6	9554.4	10334.4	11899.2	13603.2	15117.6	16243.2	16312.8	16293.6	16370.4	16401.6
50°	8959.2	9057.6	9840.0	11474.4	13368.0	15489.6	17325.6	17455.2	17630.4	17740.8	17887.2
52.5°	8491.2	8572.8	9278.4	10785.6	12595.2	15187.2	17978.4	18244.8	18484.8	18710.4	18885.6
55°	8001.6	8083.2	8702.4	10070.4	11815.2	14294.4	18276.0	18664.8	19039.2	19420.8	19771.2
57.5°	7816.8	7903.2	8364.0	9516.0	11176.8	13408.8	18422.4	19060.8	19670.4	20318.4	20990.4
60°	8296.8	8373.6	8724.0	9530.4	10689.6	12523.2	18127.2	19130.4	20179.2	21247.2	22279.2
62.5°	8150.4	8191.2	8628.0	9878.4	11311.2	11649.6	16848.0	18172.8	19696.8	21261.6	22843.2
65°	7032.0	7111.2	7440.0	8539.2	10963.2	11532.0	14899.2	16231.2	18028.8	19879.2	21998.4
67.5°	5044.8	4934.4	5188.8	6151.2	8505.6	11512.8	12705.6	13692.0	15100.8	16519.2	18256.8
70°	2292.0	2239.2	2438.4	3199.2	5131.2	9098.4	10742.4	11076.0	11599.2	12554.4	13728.0
72.5°	904.8	902.4	1032.0	1322.4	2426.4	5856.0	9033.6	9225.6	9410.4	9825.6	10332.0
75°	592.8	592.8	631.2	712.8	1195.2	2827.2	7641.6	7816.8	8100.0	8217.6	8433.6
77.5°	446.4	448.8	465.6	484.8	660.0	1488.0	5392.8	6014.4	6494.4	6852.0	7113.6
80°	316.8	331.2	362.4	374.4	429.6	847.2	3048.0	3496.8	4039.2	4617.6	5344.8
82.5°	237.6	254.4	307.2	321.6	340.8	482.4	1375.2	1560.0	1821.6	2361.6	3396.0
85°	110.4	122.4	211.2	230.4	247.2	278.4	698.4	780.0	885.6	969.6	1130.4
87.5°	16.8	12.0	36.0	50.4	79.2	81.6	240.0	285.6	309.6	372.0	386.4
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4
2.5°	3979.2	3981.6	3984.0	3979.2	3981.6	3981.6	3976.8	3974.4	3974.4	3974.4	3976.8
5°	4056.0	4060.8	4056.0	4058.4	4068.0	4065.6	4060.8	4058.4	4068.0	4070.4	4063.2
7.5°	4192.8	4195.2	4185.6	4197.6	4202.4	4204.8	4204.8	4209.6	4209.6	4216.8	4209.6
10°	4368.0	4368.0	4384.8	4382.4	4384.8	4389.6	4392.0	4401.6	4408.8	4408.8	4413.6
12.5°	4569.6	4572.0	4588.8	4591.2	4600.8	4603.2	4617.6	4608.0	4632.0	4632.0	4639.2
15°	4778.4	4795.2	4797.6	4821.6	4826.4	4828.8	4848.0	4848.0	4864.8	4867.2	4872.0
17.5°	4984.8	4999.2	5008.8	5028.0	5044.8	5052.0	5059.2	5073.6	5085.6	5090.4	5102.4
20°	5162.4	5176.8	5186.4	5205.6	5220.0	5232.0	5239.2	5256.0	5268.0	5272.8	5289.6
22.5°	5311.2	5320.8	5337.6	5364.0	5368.8	5383.2	5404.8	5416.8	5421.6	5436.0	5455.2
25°	5469.6	5484.0	5493.6	5517.6	5536.8	5560.8	5580.0	5599.2	5604.0	5623.2	5640.0
27.5°	5680.8	5695.2	5697.6	5745.6	5764.8	5798.4	5820.0	5848.8	5863.2	5880.0	5913.6
30°	5992.8	6026.4	6040.8	6096.0	6105.6	6144.0	6182.4	6192.0	6213.6	6216.0	6271.2
32.5°	6470.4	6518.4	6537.6	6595.2	6609.6	6645.6	6667.2	6717.6	6720.0	6744.0	6756.0
35°	7252.8	7240.8	7315.2	7329.6	7372.8	7404.0	7425.6	7425.6	7471.2	7473.6	7488.0
37.5°	8320.8	8296.8	8316.0	8229.6	8251.2	8212.8	8205.6	8215.2	8196.0	8200.8	8198.4
40°	10029.6	9921.6	9808.8	9542.4	9484.8	9374.4	9288.0	9218.4	9151.2	9079.2	9031.2
42.5°	12172.8	12016.8	11848.8	11421.6	11222.4	11008.8	10800.0	10680.0	10440.0	10293.6	10214.4
45°	14419.2	14236.8	14001.6	13646.4	13363.2	13135.2	12753.6	12573.6	12201.6	12016.8	11767.2
47.5°	16260.0	16262.4	16072.8	15712.8	15410.4	15259.2	15021.6	14673.6	14251.2	14013.6	13569.6
50°	17870.4	17868.0	17856.0	17640.0	17428.8	17263.2	17054.4	16740.0	16394.4	16125.6	15616.8
52.5°	19060.8	19219.2	19286.4	19284.0	19257.6	19180.8	19022.4	18751.2	18400.8	18249.6	17844.0
55°	20044.8	20390.4	20570.4	20964.0	21000.0	21127.2	20988.0	20990.4	20784.0	20798.4	20668.8
57.5°	21535.2	22166.4	22528.8	23400.0	23836.8	24364.8	24271.2	24712.8	24873.6	25077.6	25348.8
60°	23227.2	24405.6	25264.8	26997.6	27703.2	28557.6	29028.0	29529.6	29894.4	30268.8	30544.8
62.5°	24436.8	25984.8	27396.0	29865.6	30782.4	31682.4	32275.2	32882.4	33292.8	33561.6	33760.8
65°	23942.4	25653.6	27321.6	29911.2	30909.6	31562.4	32268.0	32618.4	33028.8	33252.0	33537.6
67.5°	20344.8	22060.8	23848.8	26904.0	27948.0	28850.4	29400.0	29853.6	30184.8	30468.0	30796.8
70°	15129.6	17006.4	18854.4	22204.8	23522.4	24825.6	25473.6	26035.2	26380.8	26666.4	27028.8
72.5°	10888.8	12064.8	13219.2	16970.4	18288.0	19972.8	20644.8	21268.8	21717.6	21703.2	22087.2
75°	8668.8	9146.4	9660.0	11596.8	12542.4	13963.2	14340.0	14690.4	14479.2	14073.6	14049.6
77.5°	7216.8	7413.6	7586.4	8193.6	8332.8	8671.2	8484.0	8289.6	7663.2	7135.2	6856.8
80°	5858.4	6247.2	6501.6	6933.6	7111.2	7212.0	7238.4	7171.2	6940.8	6621.6	6112.8
82.5°	4356.0	5095.2	5599.2	6448.8	6760.8	6825.6	6950.4	6873.6	6722.4	6463.2	6098.4
85°	1276.8	1444.8	1656.0	2246.4	2632.8	2961.6	3297.6	3463.2	3566.4	3422.4	3045.6
87.5°	448.8	506.4	566.4	780.0	830.4	1003.2	984.0	1161.6	1168.8	1219.2	1166.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4
2.5°	3974.4	3974.4	3974.4	3976.8	3976.8	3976.8	3972.0	3969.6	3972.0	3976.8	3976.8
5°	4068.0	4070.4	4075.2	4065.6	4068.0	4075.2	4070.4	4068.0	4070.4	4075.2	4070.4
7.5°	4219.2	4221.6	4216.8	4226.4	4226.4	4231.2	4238.4	4231.2	4233.6	4236.0	4238.4
10°	4416.0	4418.4	4423.2	4430.4	4432.8	4437.6	4442.4	4449.6	4449.6	4444.8	4456.8
12.5°	4651.2	4648.8	4653.6	4663.2	4668.0	4675.2	4689.6	4689.6	4699.2	4696.8	4708.8
15°	4881.6	4893.6	4896.0	4912.8	4920.0	4932.0	4948.8	4958.4	4958.4	4972.8	4977.6
17.5°	5112.0	5121.6	5131.2	5145.6	5155.2	5162.4	5181.6	5193.6	5191.2	5217.6	5217.6
20°	5289.6	5308.8	5320.8	5330.4	5347.2	5359.2	5373.6	5388.0	5397.6	5414.4	5419.2
22.5°	5462.4	5474.4	5491.2	5503.2	5522.4	5536.8	5553.6	5565.6	5582.4	5604.0	5611.2
25°	5654.4	5673.6	5692.8	5709.6	5724.0	5740.8	5769.6	5796.0	5820.0	5839.2	5846.4
27.5°	5920.8	5942.4	5971.2	5983.2	6004.8	6019.2	6062.4	6096.0	6108.0	6141.6	6151.2
30°	6280.8	6304.8	6333.6	6348.0	6386.4	6405.6	6451.2	6487.2	6499.2	6540.0	6547.2
32.5°	6801.6	6816.0	6873.6	6871.2	6924.0	6979.2	7005.6	7034.4	7087.2	7108.8	7116.0
35°	7524.0	7557.6	7598.4	7596.0	7663.2	7694.4	7747.2	7778.4	7816.8	7814.4	7855.2
37.5°	8222.4	8234.4	8248.8	8280.0	8328.0	8371.2	8390.4	8421.6	8450.4	8493.6	8546.4
40°	8983.2	9012.0	9014.4	9031.2	9055.2	9110.4	9146.4	9180.0	9278.4	9340.8	9372.0
42.5°	10123.2	10116.0	10068.0	10099.2	10113.6	10197.6	10224.0	10327.2	10437.6	10569.6	10605.6
45°	11589.6	11493.6	11464.8	11452.8	11529.6	11572.8	11680.8	11872.8	11988.0	12112.8	12172.8
47.5°	13394.4	13094.4	12952.8	12921.6	13000.8	13185.6	13221.6	13411.2	13562.4	13653.6	13713.6
50°	15201.6	14966.4	14668.8	14568.0	14546.4	14716.8	14757.6	14916.0	15069.6	15096.0	15064.8
52.5°	17472.0	17088.0	16596.0	16418.4	16276.8	16288.8	16322.4	16389.6	16488.0	16447.2	16363.2
55°	20376.0	19939.2	19696.8	19360.8	19147.2	19108.8	18962.4	18760.8	18753.6	18780.0	18528.0
57.5°	25212.0	25029.6	25132.8	25096.8	24885.6	25012.8	24352.8	24165.6	24016.8	23757.6	23524.8
60°	30789.6	30976.8	31190.4	31682.4	31660.8	32155.2	31696.8	31581.6	31442.4	30643.2	30252.0
62.5°	34108.8	34183.2	34497.6	34956.0	35407.2	35880.0	36093.6	36168.0	35877.6	35224.8	34408.8
65°	33530.4	33859.2	34164.0	34560.0	35023.2	35496.0	35947.2	36211.2	36144.0	35712.0	34814.4
67.5°	30902.4	31248.0	31694.4	32109.6	32608.8	33019.2	33513.6	33998.4	34012.8	33796.8	33172.8
70°	27067.2	27468.0	27928.8	28161.6	28701.6	29073.6	29484.0	29964.0	30120.0	30146.4	29419.2
72.5°	22005.6	22173.6	22399.2	22276.8	22384.8	22622.4	22512.0	22550.4	21957.6	22068.0	21170.4
75°	13401.6	13248.0	12566.4	11944.8	11186.4	10603.2	10742.4	9628.8	8532.0	8476.8	7684.8
77.5°	6796.8	6552.0	6129.6	5690.4	5047.2	4310.4	3696.0	3033.6	2474.4	2155.2	1850.4
80°	5788.8	5616.0	5383.2	5064.0	4596.0	4051.2	3410.4	2906.4	2438.4	1951.2	1562.4
82.5°	5539.2	5011.2	4672.8	4406.4	3900.0	3396.0	3045.6	2700.0	2368.8	2068.8	1639.2
85°	2748.0	2431.2	2056.8	1824.0	1404.0	1099.2	1029.6	847.2	789.6	609.6	513.6
87.5°	924.0	756.0	564.0	475.2	379.2	309.6	304.8	271.2	268.8	244.8	225.6
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4
2.5°	3974.4	3979.2	3979.2	3974.4	3976.8	3972.0	3974.4	3976.8	3969.6	3967.2	3960.0
5°	4072.8	4070.4	4070.4	4072.8	4080.0	4082.4	4070.4	4075.2	4077.6	4065.6	4039.2
7.5°	4236.0	4236.0	4243.2	4240.8	4255.2	4250.4	4248.0	4248.0	4248.0	4224.0	4180.8
10°	4456.8	4456.8	4464.0	4473.6	4476.0	4471.2	4471.2	4473.6	4485.6	4437.6	4370.4
12.5°	4704.0	4716.0	4713.6	4713.6	4742.4	4735.2	4725.6	4735.2	4747.2	4680.0	4584.0
15°	4980.0	4987.2	4992.0	5008.8	5004.0	5020.8	5025.6	5020.8	5032.8	4946.4	4785.6
17.5°	5229.6	5244.0	5248.8	5268.0	5268.0	5270.4	5289.6	5282.4	5284.8	5186.4	4956.0
20°	5436.0	5450.4	5457.6	5479.2	5484.0	5493.6	5500.8	5505.6	5517.6	5400.0	5095.2
22.5°	5642.4	5654.4	5666.4	5680.8	5700.0	5712.0	5721.6	5726.4	5748.0	5611.2	5227.2
25°	5872.8	5899.2	5911.2	5935.2	5954.4	5973.6	5988.0	5990.4	6026.4	5856.0	5335.2
27.5°	6180.0	6216.0	6235.2	6273.6	6292.8	6312.0	6307.2	6336.0	6386.4	6136.8	5419.2
30°	6583.2	6628.8	6640.8	6679.2	6710.4	6729.6	6751.2	6775.2	6808.8	6448.8	5460.0
32.5°	7144.8	7214.4	7231.2	7252.8	7298.4	7332.0	7346.4	7384.8	7394.4	6744.0	5448.0
35°	7915.2	7884.0	7965.6	7984.8	8049.6	8076.0	8092.8	8143.2	8104.8	7065.6	5368.8
37.5°	8611.2	8601.6	8680.8	8724.0	8808.0	8788.8	8829.6	8863.2	8726.4	7293.6	5222.4
40°	9460.8	9448.8	9559.2	9573.6	9703.2	9674.4	9691.2	9717.6	9412.8	7452.0	4956.0
42.5°	10646.4	10651.2	10768.8	10783.2	10800.0	10852.8	10766.4	10771.2	10142.4	7495.2	4516.8
45°	12208.8	12292.8	12220.8	12223.2	12218.4	12117.6	12009.6	11882.4	10900.8	7346.4	3950.4
47.5°	13723.2	13665.6	13574.4	13490.4	13420.8	13262.4	13104.0	12888.0	11556.0	6993.6	3319.2
50°	15019.2	14889.6	14808.0	14575.2	14409.6	14203.2	13982.4	13735.2	12093.6	6484.8	2728.8
52.5°	16224.0	16089.6	15784.8	15542.4	15304.8	15031.2	14774.4	14484.0	12568.8	5904.0	2277.6
55°	18225.6	18108.0	17803.2	17359.2	17066.4	16689.6	16351.2	15957.6	13531.2	5433.6	1980.0
57.5°	22884.0	22783.2	22142.4	21861.6	21475.2	20529.6	20390.4	19776.0	16111.2	5378.4	1804.8
60°	29443.2	29011.2	28478.4	27710.4	26805.6	26493.6	25797.6	24979.2	20263.2	5529.6	1663.2
62.5°	33470.4	32486.4	31704.0	30818.4	29985.6	29270.4	28509.6	27700.8	22387.2	5330.4	1488.0
65°	33772.8	32616.0	31581.6	30542.4	29606.4	28716.0	27976.8	27168.0	21696.0	4581.6	1260.0
67.5°	32107.2	30888.0	29760.0	28581.6	27636.0	26832.0	25891.2	25113.6	19747.2	3566.4	1048.8
70°	28672.8	27602.4	26630.4	25360.8	24576.0	23596.8	22999.2	22027.2	17212.8	2431.2	866.4
72.5°	20652.0	19845.6	19528.8	18643.2	17616.0	17040.0	16764.0	15820.8	12720.0	1509.6	708.0
75°	6976.8	7176.0	6720.0	6021.6	6362.4	5836.8	6050.4	5601.6	5380.8	866.4	595.2
77.5°	1548.0	1454.4	1344.0	1248.0	1240.8	1166.4	1236.0	1168.8	1250.4	552.0	525.6
80°	1221.6	964.8	820.8	748.8	710.4	688.8	672.0	652.8	595.2	470.4	484.8
82.5°	1320.0	996.0	729.6	583.2	499.2	468.0	460.8	441.6	436.8	456.0	489.6
85°	422.4	352.8	300.0	283.2	261.6	249.6	244.8	237.6	288.0	496.8	470.4
87.5°	220.8	194.4	172.8	165.6	144.0	134.4	132.0	134.4	201.6	496.8	340.8
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):

	125°	135°	145°	155°	165°	175°	180°
0°	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4	3950.4
2.5°	3952.8	3950.4	3945.6	3943.2	3940.8	3928.8	3938.4
5°	4027.2	4003.2	3981.6	3955.2	3940.8	3928.8	3928.8
7.5°	4140.0	4072.8	4017.6	3957.6	3916.8	3885.6	3880.8
10°	4281.6	4152.0	4024.8	3916.8	3840.0	3782.4	3775.2
12.5°	4416.0	4219.2	4017.6	3840.0	3720.0	3638.4	3633.6
15°	4540.8	4255.2	3962.4	3700.8	3520.8	3412.8	3400.8
17.5°	4639.2	4233.6	3837.6	3506.4	3261.6	3134.4	3127.2
20°	4660.8	4147.2	3660.0	3266.4	3007.2	2872.8	2841.6
22.5°	4641.6	3991.2	3439.2	3002.4	2704.8	2570.4	2553.6
25°	4584.0	3801.6	3165.6	2695.2	2419.2	2282.4	2248.8
27.5°	4480.8	3578.4	2870.4	2397.6	2124.0	1992.0	1958.4
30°	4327.2	3309.6	2556.0	2119.2	1836.0	1730.4	1696.8
32.5°	4113.6	2983.2	2246.4	1833.6	1598.4	1514.4	1500.0
35°	3818.4	2608.8	1922.4	1598.4	1425.6	1375.2	1368.0
37.5°	3441.6	2234.4	1651.2	1430.4	1305.6	1274.4	1269.6
40°	2949.6	1850.4	1459.2	1310.4	1219.2	1192.8	1188.0
42.5°	2443.2	1562.4	1317.6	1214.4	1140.0	1116.0	1108.8
45°	1999.2	1368.0	1212.0	1135.2	1065.6	1039.2	1036.8
47.5°	1668.0	1255.2	1125.6	1063.2	993.6	962.4	964.8
50°	1425.6	1152.0	1053.6	1000.8	921.6	892.8	895.2
52.5°	1260.0	1048.8	986.4	926.4	859.2	830.4	830.4
55°	1130.4	964.8	921.6	856.8	804.0	777.6	775.2
57.5°	1024.8	897.6	859.2	806.4	753.6	722.4	722.4
60°	960.0	849.6	818.4	770.4	708.0	674.4	672.0
62.5°	921.6	835.2	808.8	741.6	672.0	638.4	631.2
65°	892.8	868.8	835.2	724.8	643.2	607.2	600.0
67.5°	895.2	948.0	900.0	734.4	633.6	580.8	571.2
70°	909.6	1010.4	945.6	756.0	674.4	568.8	547.2
72.5°	837.6	914.4	852.0	720.0	657.6	547.2	520.8
75°	698.4	667.2	612.0	585.6	590.4	496.8	487.2
77.5°	566.4	496.8	444.0	465.6	496.8	424.8	415.2
80°	492.0	403.2	376.8	412.8	451.2	362.4	338.4
82.5°	460.8	340.8	324.0	429.6	472.8	312.0	273.6
85°	405.6	278.4	254.4	506.4	472.8	235.2	218.4
87.5°	271.2	165.6	158.4	372.0	324.0	163.2	132.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)