

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: P157936

Luminaire Tested: **VTS-F08-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157936
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F08-LED-E1-RW-7050
Description: VENTUS LED SITE LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (56) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

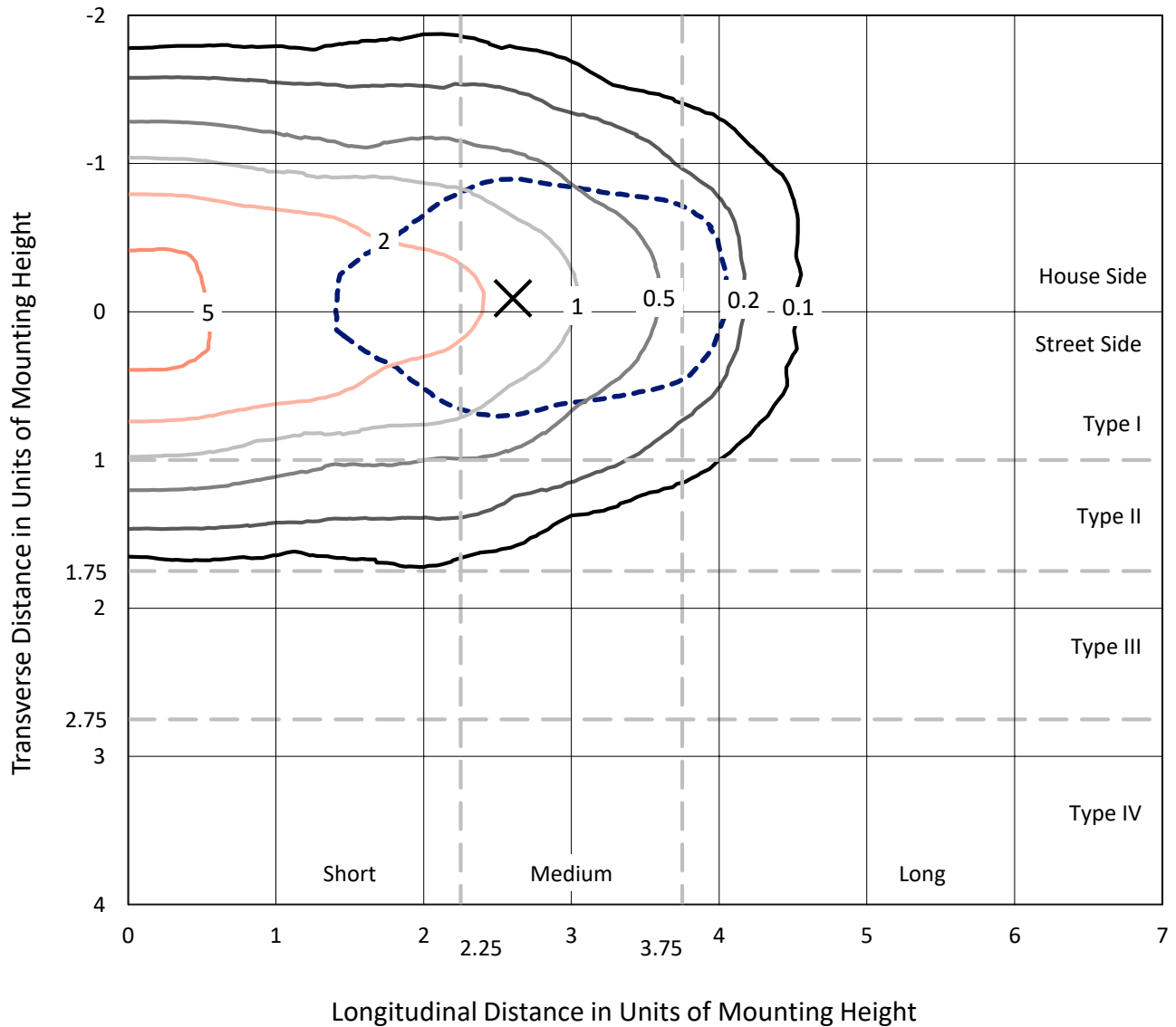
Lumens per Lamp: N/A
Luminaire Lumens: 21111.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G4

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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

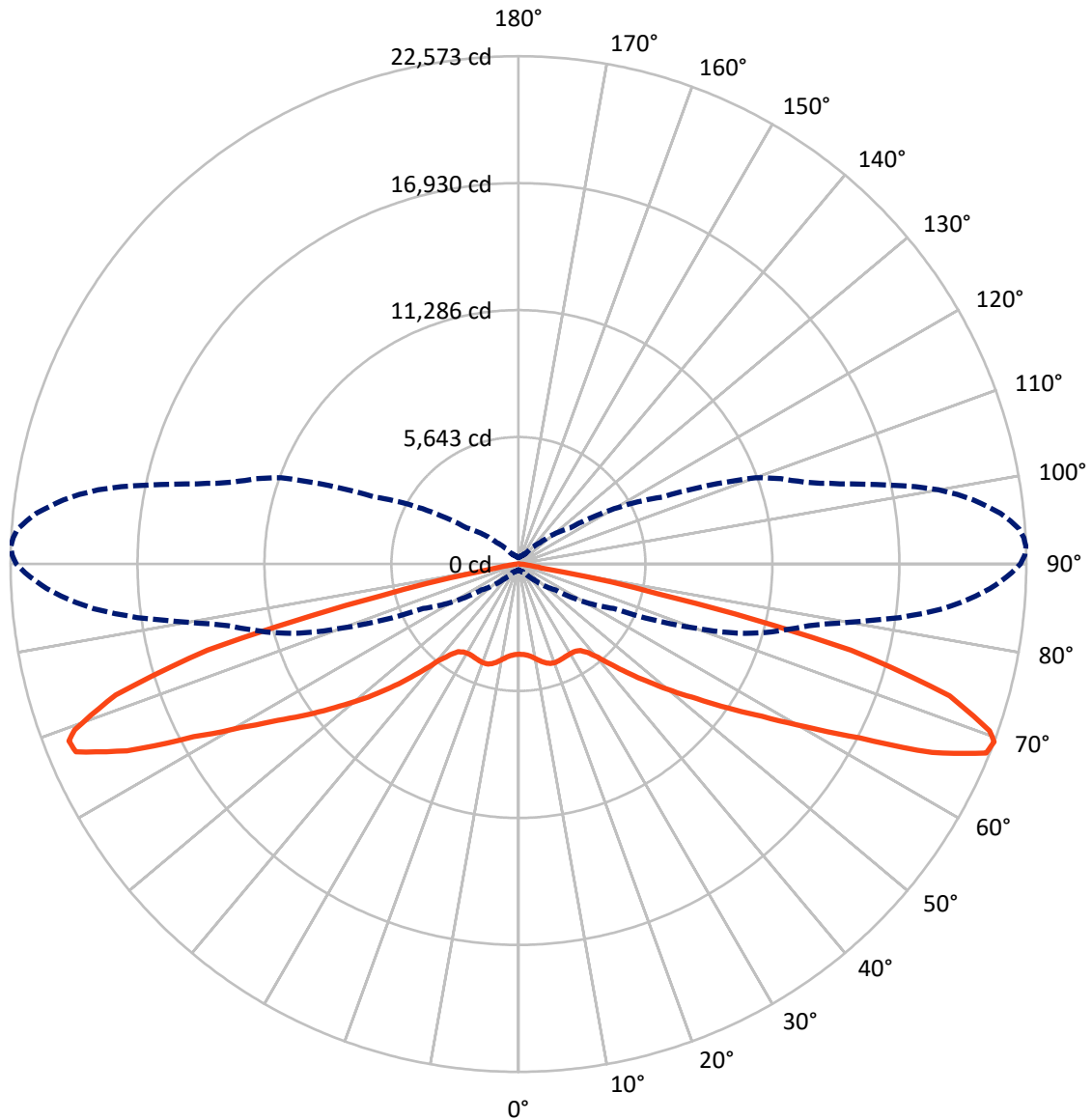
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11196.8	0.0	11196.8
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	9915.2	0.0	9915.2
	% Fixture	47.0	0.0	47.0
Total	Lumens	21111.9	0.0	21111.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.4	1.9
10°-20°	1239.7	5.9
20°-30°	2011.2	9.5
30°-40°	2506.5	11.9
40°-50°	3120.9	14.8
50°-60°	3848.9	18.2
60°-70°	4780.0	22.6
70°-80°	2937.0	13.9
80°-90°	275.3	1.3
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°	21111.9	100.0
0°-180°	21111.9	100.0



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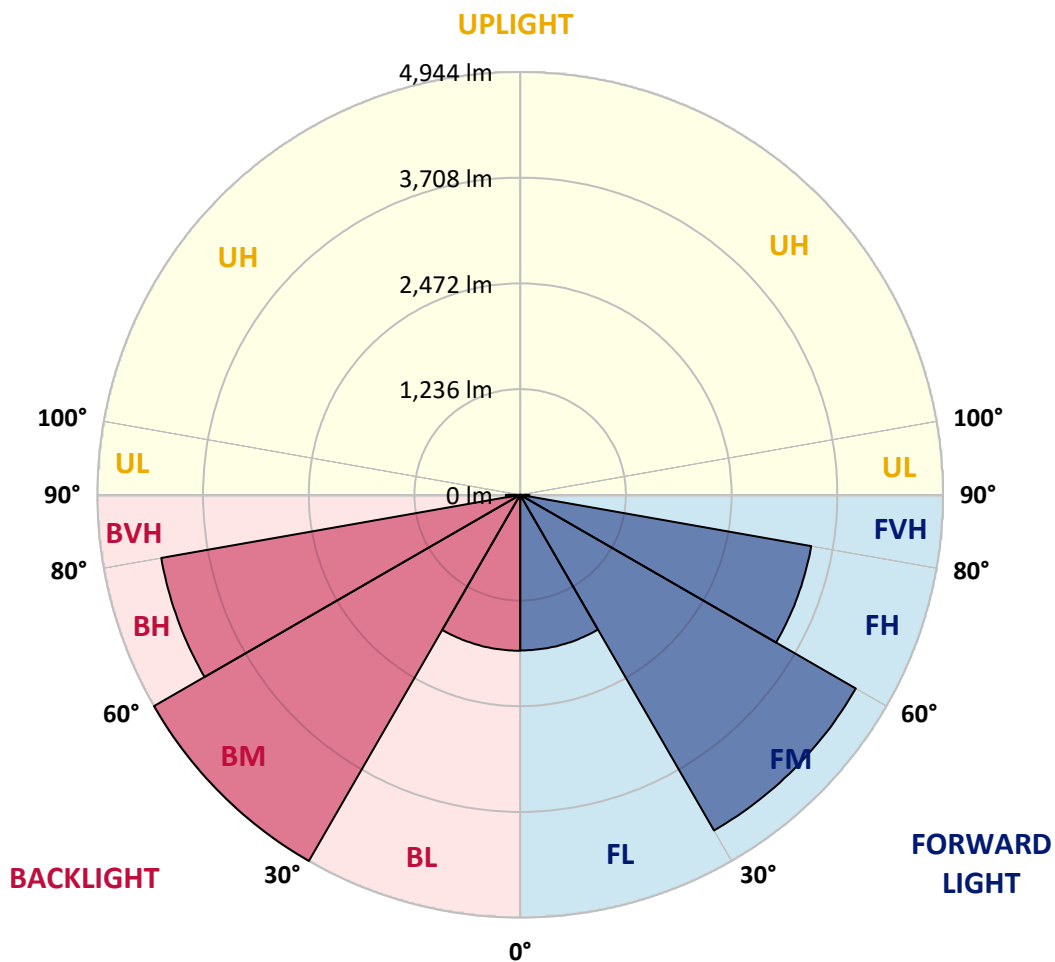
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1819.7	8.6			
FM	(30°-60°)	4531.9	21.5			
FH	(60°-80°)	3455.7	16.4			G2/5000
FVH	(80°-90°)	107.8	0.5			G2/225
BL	(0°-30°)	1823.6	8.6	B3/2500		
BM	(30°-60°)	4944.4	23.4	B3/5000		
BH	(60°-80°)	4261.3	20.2	B4/5000		G4/5000
BVH	(80°-90°)	167.5	0.8			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4
2.5°	4074.1	4063.3	4072.7	4074.1	4072.7	4072.7	4060.5	4057.8	4041.6	4045.6	4044.3
5°	4129.7	4125.6	4132.4	4135.1	4137.8	4132.4	4122.9	4118.8	4108.0	4103.9	4102.6
7.5°	4181.2	4174.4	4185.2	4194.7	4201.5	4202.9	4204.2	4197.4	4197.4	4192.0	4192.0
10°	4224.5	4219.1	4236.7	4248.9	4270.6	4282.8	4296.4	4305.9	4311.3	4312.6	4311.3
12.5°	4243.5	4239.4	4267.9	4304.5	4345.2	4373.6	4407.5	4431.9	4438.7	4437.3	4444.1
15°	4211.0	4213.7	4257.1	4328.9	4415.6	4487.5	4534.9	4555.2	4560.7	4563.4	4564.7
17.5°	4122.9	4128.3	4190.7	4307.2	4459.0	4589.1	4659.6	4659.6	4648.8	4648.8	4647.4
20°	3981.9	3987.4	4068.7	4236.7	4460.4	4659.6	4759.9	4739.6	4698.9	4690.8	4682.6
22.5°	3786.8	3808.5	3897.9	4093.1	4402.1	4679.9	4822.2	4792.4	4728.7	4711.1	4698.9
25°	3565.8	3563.1	3670.2	3889.8	4261.1	4631.1	4839.9	4834.4	4766.7	4747.7	4726.0
27.5°	3313.8	3321.9	3420.8	3643.1	4045.6	4490.2	4810.0	4881.9	4826.3	4807.3	4787.0
30°	3054.9	3063.0	3156.5	3415.4	3800.3	4288.2	4749.0	4927.9	4906.3	4891.4	4877.8
32.5°	2794.7	2797.4	2908.5	3186.4	3593.0	4047.0	4656.9	4970.0	4999.8	4993.0	4987.6
35°	2550.7	2553.4	2674.0	2956.0	3388.3	3841.0	4545.7	5031.0	5127.2	5135.3	5140.7
37.5°	2313.5	2317.6	2440.9	2736.4	3186.4	3685.1	4422.4	5124.5	5306.1	5335.9	5341.3
40°	2077.7	2081.8	2199.7	2512.8	2981.7	3548.2	4327.5	5255.9	5547.3	5588.0	5630.0
42.5°	1852.7	1867.6	1967.9	2267.5	2754.0	3378.8	4286.9	5415.9	5833.3	5897.0	5944.4
45°	1642.6	1644.0	1757.9	2038.4	2484.3	3149.8	4259.8	5597.5	6153.2	6249.4	6314.4
47.5°	1417.7	1433.9	1553.2	1825.6	2232.2	2866.5	4173.0	5810.3	6501.5	6614.0	6745.4
50°	1199.5	1222.5	1337.7	1607.4	2001.8	2573.8	3939.9	6059.6	6893.2	7039.5	7191.3
52.5°	989.4	988.0	1110.0	1390.6	1770.0	2325.7	3561.8	6321.2	7345.8	7503.1	7667.1
55°	748.1	748.1	868.8	1124.9	1519.3	2104.8	3156.5	6483.9	7766.0	7955.7	8134.6
57.5°	513.7	527.2	641.1	862.0	1257.7	1902.9	2846.2	6390.3	8087.2	8323.0	8535.8
60°	380.8	394.4	478.4	619.4	984.0	1664.3	2613.1	5949.9	8281.0	8594.1	8870.6
62.5°	329.3	338.8	418.8	496.0	708.8	1410.9	2407.1	5390.1	8560.2	8988.5	9373.4
65°	294.1	303.6	383.6	428.3	554.3	1134.4	2291.8	5070.3	8893.6	9548.2	10106.6
67.5°	272.4	283.3	351.0	383.6	483.8	1026.0	2202.4	4995.7	8890.9	9685.1	10398.0
69°	261.6	269.7	325.3	360.5	467.6	993.5	2008.6	4671.8	8304.1	9156.5	9872.2
70°	254.8	262.9	310.4	345.6	462.2	935.2	1829.7	4243.5	7635.9	8493.8	9220.2
72.5°	233.1	241.2	276.5	309.0	384.9	624.8	1275.4	2716.1	5456.5	6069.1	6899.9
75°	206.0	215.5	242.6	269.7	291.4	361.9	735.9	1409.5	3119.9	3584.8	4324.8
77.5°	168.1	177.5	206.0	249.4	246.7	275.1	478.4	866.1	1461.0	1812.1	2085.8
80°	138.2	145.0	169.4	252.1	201.9	230.4	387.6	710.2	1028.7	1137.1	1202.2
82.5°	92.2	101.6	131.5	197.9	154.5	164.0	290.0	664.1	870.1	954.1	1032.8
85°	43.4	47.4	80.0	105.7	93.5	88.1	165.3	468.9	647.8	687.1	717.0
87.5°	0.0	0.0	4.1	8.1	12.2	12.2	29.8	98.9	181.6	219.6	216.9
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4
2.5°	4038.9	4040.2	4038.9	4038.9	4037.5	4034.8	4034.8	4032.1	4033.4	4032.1	4034.8
5°	4101.2	4101.2	4097.1	4094.4	4098.5	4094.4	4095.8	4089.0	4089.0	4084.9	4079.5
7.5°	4190.7	4190.7	4192.0	4183.9	4189.3	4190.7	4186.6	4183.9	4181.2	4174.4	4175.7
10°	4309.9	4309.9	4314.0	4303.1	4308.6	4311.3	4312.6	4312.6	4309.9	4297.7	4299.1
12.5°	4442.7	4440.0	4441.4	4436.0	4441.4	4444.1	4446.8	4444.1	4444.1	4441.4	4440.0
15°	4563.4	4562.0	4564.7	4560.7	4562.0	4564.7	4572.9	4571.5	4570.1	4562.0	4562.0
17.5°	4646.0	4642.0	4639.3	4637.9	4637.9	4636.6	4637.9	4637.9	4633.8	4632.5	4632.5
20°	4677.2	4666.4	4659.6	4655.5	4650.1	4647.4	4644.7	4646.0	4643.3	4639.3	4640.6
22.5°	4682.6	4667.7	4654.2	4642.0	4631.1	4624.4	4617.6	4614.9	4608.1	4604.0	4604.0
25°	4708.4	4685.3	4663.7	4643.3	4627.1	4612.2	4597.2	4586.4	4578.3	4568.8	4566.1
27.5°	4765.3	4740.9	4715.2	4689.4	4667.7	4637.9	4617.6	4595.9	4576.9	4562.0	4551.2
30°	4853.4	4829.0	4803.3	4773.4	4745.0	4713.8	4679.9	4654.2	4627.1	4597.2	4581.0
32.5°	4970.0	4953.7	4927.9	4899.5	4873.7	4841.2	4800.5	4761.2	4735.5	4700.3	4674.5
35°	5136.7	5117.7	5109.6	5097.4	5071.6	5051.3	5006.6	4970.0	4945.6	4896.8	4877.8
37.5°	5364.4	5363.0	5369.8	5365.7	5369.8	5344.0	5323.7	5322.3	5287.1	5239.7	5193.6
40°	5674.7	5691.0	5727.6	5753.3	5777.7	5780.4	5808.9	5779.1	5783.2	5776.4	5728.9
42.5°	6028.5	6084.0	6127.4	6203.3	6261.6	6315.8	6352.4	6402.5	6440.5	6474.4	6482.5
45°	6422.9	6505.5	6605.8	6673.6	6787.4	6878.3	7002.9	7099.2	7199.5	7298.4	7333.6
47.5°	6851.1	6954.2	7065.3	7191.3	7335.0	7477.3	7669.8	7817.5	7978.8	8113.0	8232.2
50°	7324.2	7431.2	7580.3	7725.3	7923.2	8087.2	8339.3	8533.1	8793.3	8972.2	9126.7
52.5°	7817.5	7951.7	8118.4	8278.3	8480.2	8690.3	8970.9	9256.8	9569.9	9841.0	10066.0
55°	8300.0	8465.3	8625.3	8812.3	9035.9	9279.9	9597.0	9973.8	10364.1	10674.5	10972.7
57.5°	8729.6	8920.7	9109.1	9298.9	9527.9	9811.2	10167.6	10574.2	11021.5	11434.8	11844.2
60°	9128.1	9357.1	9587.5	9824.7	10087.7	10437.3	10865.6	11365.7	11944.4	12509.6	13045.0
62.5°	9758.3	10059.2	10345.2	10651.5	10968.6	11379.3	11884.8	12540.8	13204.9	13911.0	14459.9
65°	10612.2	11035.0	11409.1	11806.2	12216.9	12765.8	13370.2	14155.0	15106.4	15830.1	16711.1
67.5°	11036.4	11593.4	12074.6	12516.4	13024.6	13579.0	14297.3	15225.7	16240.8	17289.8	18272.4
69°	10537.6	11112.3	11644.9	12139.6	12653.3	13191.3	13942.2	14895.0	15968.4	17102.8	18062.4
70°	9891.1	10465.8	11033.7	11597.5	12066.4	12590.9	13344.5	14327.1	15399.2	16578.3	17529.7
72.5°	7577.6	8268.8	8782.5	9311.1	9854.5	10299.1	11169.2	11997.3	13114.1	14310.8	15358.5
75°	4848.0	5483.6	6044.7	6494.7	7026.0	7558.6	8201.0	9121.3	9820.7	10803.3	11653.0
77.5°	2491.1	2679.5	3220.2	3381.5	3750.2	4040.2	4394.0	4624.4	5193.6	5314.2	5815.7
80°	1180.5	1063.9	1001.6	944.7	960.9	954.1	925.7	887.7	935.2	914.8	906.7
82.5°	1028.7	917.6	731.9	622.1	538.1	456.7	393.0	360.5	364.6	375.4	379.5
85°	721.0	677.7	528.6	401.2	313.1	242.6	195.2	187.0	192.5	207.4	201.9
87.5°	208.7	218.2	192.5	134.2	93.5	67.8	52.9	59.6	56.9	55.6	58.3
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4
2.5°	4034.8	4033.4	4029.4	4025.3	4025.3	4022.6	4025.3	4026.7	4025.3	4025.3	4022.6
5°	4080.9	4082.2	4086.3	4078.2	4076.8	4078.2	4072.7	4071.4	4067.3	4071.4	4066.0
7.5°	4169.0	4173.0	4173.0	4167.6	4166.3	4170.3	4162.2	4159.5	4155.4	4154.1	4152.7
10°	4300.4	4304.5	4297.7	4293.7	4289.6	4295.0	4288.2	4288.2	4284.2	4280.1	4278.7
12.5°	4446.8	4444.1	4441.4	4444.1	4440.0	4440.0	4436.0	4433.3	4431.9	4430.5	4427.8
15°	4560.7	4570.1	4570.1	4572.9	4570.1	4570.1	4564.7	4566.1	4563.4	4562.0	4563.4
17.5°	4633.8	4636.6	4643.3	4647.4	4647.4	4648.8	4646.0	4648.8	4646.0	4646.0	4651.5
20°	4643.3	4646.0	4652.8	4659.6	4663.7	4666.4	4666.4	4670.4	4673.1	4675.9	4682.6
22.5°	4605.4	4609.4	4617.6	4629.8	4636.6	4639.3	4644.7	4651.5	4658.2	4663.7	4673.1
25°	4566.1	4567.4	4575.6	4587.8	4595.9	4602.7	4612.2	4620.3	4629.8	4640.6	4651.5
27.5°	4544.4	4543.0	4549.8	4562.0	4568.8	4578.3	4586.4	4598.6	4609.4	4623.0	4632.5
30°	4563.4	4552.5	4553.9	4559.3	4564.7	4571.5	4581.0	4591.8	4604.0	4616.2	4627.1
32.5°	4647.4	4623.0	4606.7	4602.7	4604.0	4605.4	4610.8	4617.6	4627.1	4636.6	4640.6
35°	4829.0	4787.0	4765.3	4747.7	4732.8	4720.6	4723.3	4721.9	4721.9	4730.1	4720.6
37.5°	5174.6	5121.8	5098.7	5067.5	5049.9	5005.2	4993.0	4990.3	4972.7	4972.7	4952.3
40°	5716.7	5685.6	5668.0	5639.5	5554.1	5564.9	5504.0	5505.3	5455.2	5460.6	5425.3
42.5°	6487.9	6492.0	6470.3	6451.3	6384.9	6355.1	6298.2	6216.9	6153.2	6151.8	6081.3
45°	7379.7	7428.5	7359.4	7383.8	7325.5	7245.5	7179.1	7074.8	6975.8	6944.7	6872.8
47.5°	8312.2	8392.1	8339.3	8348.8	8320.3	8206.5	8117.0	7988.3	7859.5	7772.8	7729.4
50°	9308.3	9361.2	9359.8	9334.1	9320.5	9209.4	9065.7	8968.2	8873.3	8756.7	8718.8
52.5°	10211.0	10334.3	10417.0	10398.0	10358.7	10292.3	10164.9	10080.9	9941.3	9925.0	9941.3
55°	11177.3	11337.3	11421.3	11522.9	11524.3	11512.1	11459.2	11428.1	11298.0	11312.9	11293.9
57.5°	12092.2	12326.6	12455.4	12672.3	12746.8	12845.7	12809.1	12849.8	12771.2	12822.7	12807.8
60°	13332.3	13657.6	13871.7	14168.5	14306.8	14554.8	14603.6	14633.4	14676.8	14782.5	14722.9
62.5°	14892.3	15369.3	15813.9	16217.8	16350.6	16723.3	16784.3	17017.4	17029.6	17101.4	16970.0
65°	17445.7	18027.1	18516.4	19000.2	19279.4	19715.9	19892.0	20344.7	20206.5	20264.8	19984.2
67.5°	19118.2	19794.5	20450.4	20908.5	21372.1	21818.0	22139.2	22431.9	22429.2	22372.3	22122.9
69°	18970.4	19724.0	20370.5	20984.4	21472.4	21930.4	22316.7	22506.5	22572.9	22490.2	22312.6
70°	18459.5	19233.4	20024.9	20530.4	21061.7	21564.5	21963.0	22170.3	22216.4	22158.1	22005.0
72.5°	16098.5	16841.2	17714.0	18173.5	18815.9	19179.1	19728.1	19996.4	20043.8	19969.3	19869.0
75°	12563.8	12698.0	13587.1	13879.8	14346.1	14764.9	15106.4	15019.7	15262.3	15214.8	15176.9
77.5°	5918.7	5560.9	6136.9	6405.2	6264.3	5888.9	6435.1	6040.7	6302.2	6642.4	6555.7
80°	975.8	973.1	998.9	1055.8	988.0	1049.0	1047.7	1017.8	1020.6	1093.7	1055.8
82.5°	375.4	383.6	387.6	398.5	398.5	399.8	406.6	414.7	408.0	421.5	418.8
85°	203.3	216.9	204.7	195.2	201.9	206.0	211.4	218.2	211.4	231.8	220.9
87.5°	52.9	55.6	48.8	48.8	47.4	43.4	43.4	46.1	50.1	59.6	65.1
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4
2.5°	4017.2	4018.5	4019.9	4015.8	4013.1	4013.1	4011.8	4009.0	4007.7	4007.7	4007.7
5°	4063.3	4066.0	4059.2	4057.8	4055.1	4052.4	4052.4	4049.7	4051.1	4051.1	4044.3
7.5°	4155.4	4151.3	4143.2	4137.8	4143.2	4133.7	4129.7	4132.4	4129.7	4131.0	4128.3
10°	4278.7	4278.7	4269.3	4274.7	4267.9	4257.1	4261.1	4257.1	4254.4	4244.9	4250.3
12.5°	4431.9	4427.8	4422.4	4410.2	4406.1	4404.8	4392.6	4394.0	4389.9	4387.2	4383.1
15°	4566.1	4564.7	4552.5	4545.7	4544.4	4539.0	4533.5	4530.8	4524.1	4522.7	4520.0
17.5°	4655.5	4651.5	4646.0	4639.3	4639.3	4631.1	4628.4	4621.6	4620.3	4616.2	4612.2
20°	4685.3	4686.7	4681.3	4675.9	4673.1	4667.7	4663.7	4658.2	4655.5	4650.1	4646.0
22.5°	4678.6	4678.6	4673.1	4671.8	4666.4	4658.2	4652.8	4646.0	4639.3	4632.5	4624.4
25°	4656.9	4655.5	4651.5	4644.7	4637.9	4625.7	4614.9	4604.0	4594.5	4586.4	4574.2
27.5°	4637.9	4635.2	4627.1	4617.6	4604.0	4590.5	4570.1	4555.2	4543.0	4532.2	4518.6
30°	4631.1	4621.6	4609.4	4594.5	4578.3	4557.9	4536.3	4517.3	4503.7	4492.9	4487.5
32.5°	4639.3	4627.1	4608.1	4589.1	4568.8	4544.4	4522.7	4506.4	4494.2	4491.5	4491.5
35°	4713.8	4693.5	4667.7	4640.6	4614.9	4594.5	4579.6	4578.3	4570.1	4579.6	4594.5
37.5°	4932.0	4914.4	4875.1	4839.9	4822.2	4812.7	4799.2	4801.9	4782.9	4812.7	4837.1
40°	5395.5	5373.8	5327.8	5299.3	5264.1	5230.2	5257.3	5249.2	5262.7	5257.3	5283.0
42.5°	6071.8	6050.2	5977.0	5966.1	5951.2	5937.7	5937.7	5926.8	5921.4	5940.4	5918.7
45°	6894.5	6851.1	6824.0	6856.6	6811.8	6825.4	6872.8	6809.1	6824.0	6735.9	6654.6
47.5°	7748.4	7744.3	7737.5	7776.8	7783.6	7803.9	7829.7	7764.6	7646.7	7580.3	7415.0
50°	8731.0	8773.0	8789.3	8827.2	8843.5	8858.4	8817.7	8721.5	8522.3	8346.1	8150.9
52.5°	9925.0	9851.8	9952.1	9988.7	9972.5	9912.8	9766.4	9648.5	9373.4	9120.0	8817.7
55°	11315.6	11333.2	11262.7	11234.3	11178.7	11013.3	10811.4	10545.8	10197.4	9866.7	9484.5
57.5°	12731.9	12725.1	12615.3	12460.8	12272.4	12073.2	11772.3	11391.5	10984.9	10540.3	10078.2
60°	14454.5	14447.7	14225.4	13961.2	13692.8	13371.6	12899.9	12441.8	11897.0	11312.9	10762.6
62.5°	16717.9	16426.5	16208.3	15813.9	15399.2	14979.0	14340.7	13732.1	13004.3	12267.0	11624.6
65°	19618.3	19138.5	18890.5	18318.5	17676.1	17020.1	16370.9	15571.3	14591.4	13699.6	12914.9
67.5°	21763.7	21324.6	20870.6	20300.0	19595.2	18863.4	17974.3	16967.3	15854.5	14854.3	13999.1
69°	21952.1	21541.5	20996.6	20424.7	19757.9	18962.3	17991.9	16864.3	15736.6	14724.2	13882.6
70°	21666.2	21229.7	20656.4	20061.5	19316.0	18565.2	17548.7	16373.6	15244.7	14229.5	13408.2
72.5°	19532.9	19107.3	18497.4	17785.9	17021.5	16379.1	15414.1	14188.9	12960.9	12023.1	11383.3
75°	14853.0	14759.4	14327.1	13912.4	13310.6	12593.6	11711.3	10887.3	9880.3	8888.2	8291.9
77.5°	6337.5	6553.0	6778.0	6810.5	6832.2	6611.3	6474.4	6267.0	5593.4	5287.1	4971.3
80°	1171.0	1046.3	1116.8	1124.9	1171.0	1195.4	1284.8	1523.4	1550.5	1608.8	1680.6
82.5°	416.1	422.9	433.7	437.8	441.8	458.1	519.1	622.1	715.6	837.6	1000.2
85°	235.8	239.9	249.4	257.5	262.9	279.2	313.1	374.1	466.2	605.8	821.3
87.5°	71.8	81.3	86.7	97.6	101.6	104.4	119.3	159.9	206.0	304.9	444.5
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4	4010.4
2.5°	4007.7	4006.3	4003.6	4000.9	4002.3	3999.6	3991.4	3988.7	3979.2	3972.4	3967.0
5°	4044.3	4042.9	4037.5	4038.9	4037.5	4023.9	4014.5	3998.2	3988.7	3973.8	3968.4
7.5°	4120.2	4118.8	4109.3	4113.4	4110.7	4090.4	4074.1	4048.3	4034.8	4015.8	4000.9
10°	4234.0	4234.0	4223.2	4224.5	4224.5	4197.4	4169.0	4125.6	4094.4	4064.6	4038.9
12.5°	4372.3	4366.8	4365.5	4358.7	4353.3	4323.5	4280.1	4221.8	4163.5	4114.8	4079.5
15°	4511.9	4503.7	4499.7	4491.5	4484.8	4457.7	4399.4	4327.5	4248.9	4170.3	4112.0
17.5°	4602.7	4597.2	4589.1	4586.4	4576.9	4549.8	4509.2	4437.3	4339.7	4230.0	4141.9
20°	4636.6	4627.1	4621.6	4616.2	4610.8	4591.8	4591.8	4545.7	4437.3	4282.8	4148.6
22.5°	4614.9	4609.4	4601.3	4597.2	4591.8	4594.5	4647.4	4640.6	4515.9	4295.0	4099.8
25°	4564.7	4557.9	4551.2	4551.2	4549.8	4578.3	4705.7	4723.3	4539.0	4235.4	3992.8
27.5°	4513.2	4503.7	4506.4	4507.8	4514.6	4575.6	4769.4	4745.0	4476.6	4091.7	3808.5
30°	4482.0	4482.0	4488.8	4499.7	4513.2	4620.3	4819.5	4696.2	4315.3	3874.9	3564.5
32.5°	4495.6	4509.2	4524.1	4551.2	4571.5	4719.2	4837.1	4570.1	4080.9	3606.5	3309.7
35°	4616.2	4632.5	4660.9	4703.0	4727.4	4861.5	4837.1	4385.8	3808.5	3376.1	3046.8
37.5°	4879.2	4895.4	4929.3	4961.8	4986.2	5040.4	4816.8	4151.3	3580.8	3137.6	2810.9
40°	5302.0	5325.1	5349.5	5344.0	5327.8	5274.9	4776.2	3933.1	3370.7	2928.8	2579.2
42.5°	5897.0	5875.3	5872.6	5819.7	5765.5	5539.2	4746.3	3790.8	3190.4	2709.3	2348.8
45°	6584.1	6496.1	6405.2	6334.8	6252.1	5829.2	4738.2	3675.6	2991.2	2465.3	2098.0
47.5°	7275.4	7134.4	6958.2	6848.4	6714.3	6138.2	4762.6	3521.1	2735.0	2199.7	1863.6
50°	7953.0	7722.6	7504.4	7372.9	7221.2	6493.3	4801.9	3260.9	2428.7	1958.4	1649.4
52.5°	8580.5	8283.7	8060.1	7905.6	7719.9	6906.7	4766.7	2919.4	2163.1	1726.7	1446.1
55°	9176.9	8848.9	8617.1	8454.5	8236.3	7321.4	4511.9	2609.0	1909.6	1500.3	1217.1
57.5°	9698.7	9384.2	9143.0	8922.1	8737.8	7682.0	4009.0	2352.8	1665.7	1241.5	969.1
60°	10308.6	9954.8	9668.9	9433.0	9216.2	7867.6	3445.2	2125.1	1405.5	960.9	700.7
62.5°	11131.3	10724.7	10394.0	10124.2	9841.0	7908.3	3060.3	1897.4	1115.4	695.3	509.6
65°	12351.0	11849.6	11436.2	11064.8	10681.3	7740.2	2870.6	1649.4	829.5	516.4	426.9
67.5°	13320.1	12799.7	12321.2	11844.2	11353.5	7428.5	2828.6	1420.4	637.0	439.1	383.6
69°	13202.2	12706.1	12267.0	11750.6	11207.1	7036.8	2786.5	1332.3	581.4	408.0	363.2
70°	12748.1	12277.9	11832.0	11411.8	10746.3	6600.4	2675.4	1283.5	559.7	393.0	348.3
72.5°	10772.1	10227.3	9794.9	9271.8	8571.0	4904.9	2028.9	1038.2	513.7	359.2	314.4
75°	7856.8	7405.5	6974.5	6395.8	5714.0	2838.0	1263.2	593.6	376.8	325.3	284.6
77.5°	4587.8	4486.1	4070.0	3689.2	3014.2	1444.8	725.1	355.1	292.7	295.5	250.7
80°	1726.7	1839.2	1881.2	1749.7	1616.9	997.5	527.2	288.7	254.8	291.4	212.8
82.5°	1259.1	1461.0	1485.4	1423.1	1324.1	929.8	421.5	231.8	207.4	313.1	183.0
85°	1050.4	1162.9	1180.5	1115.4	1082.9	787.4	294.1	162.6	151.8	225.0	136.9
87.5°	531.3	559.7	574.7	520.4	523.2	367.3	117.9	69.1	82.7	96.2	75.9
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):

	175°	180°
0°	4010.4	4010.4
2.5°	3954.8	3963.0
5°	3960.2	3960.2
7.5°	3991.4	3991.4
10°	4025.3	4026.7
12.5°	4056.5	4055.1
15°	4080.9	4076.8
17.5°	4095.8	4091.7
20°	4080.9	4074.1
22.5°	4005.0	3986.0
25°	3866.7	3842.3
27.5°	3683.8	3667.5
30°	3445.2	3420.8
32.5°	3166.0	3153.8
35°	2899.0	2884.1
37.5°	2655.1	2651.0
40°	2449.1	2427.4
42.5°	2207.8	2198.3
45°	1962.5	1957.1
47.5°	1732.1	1726.7
50°	1519.3	1508.5
52.5°	1310.6	1293.0
55°	1078.8	1066.6
57.5°	828.1	817.3
60°	582.8	570.6
62.5°	414.7	401.2
65°	345.6	334.8
67.5°	313.1	300.9
69°	298.2	287.3
70°	288.7	280.6
72.5°	268.4	262.9
75°	245.3	241.2
77.5°	215.5	208.7
80°	180.3	173.5
82.5°	151.8	145.0
85°	101.6	92.2
87.5°	46.1	40.7
90°	0.0	0.0

(END OF REPORT)