

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: STREETWORKS

Report Number: P158292

Luminaire Tested: **VST-E11-LED-E-U-SL2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158292
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: STREETWORKS
Catalog Number: VST-E11-LED-E-U-SL2-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (231) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33960.4 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 269.7
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: 28.75 FT



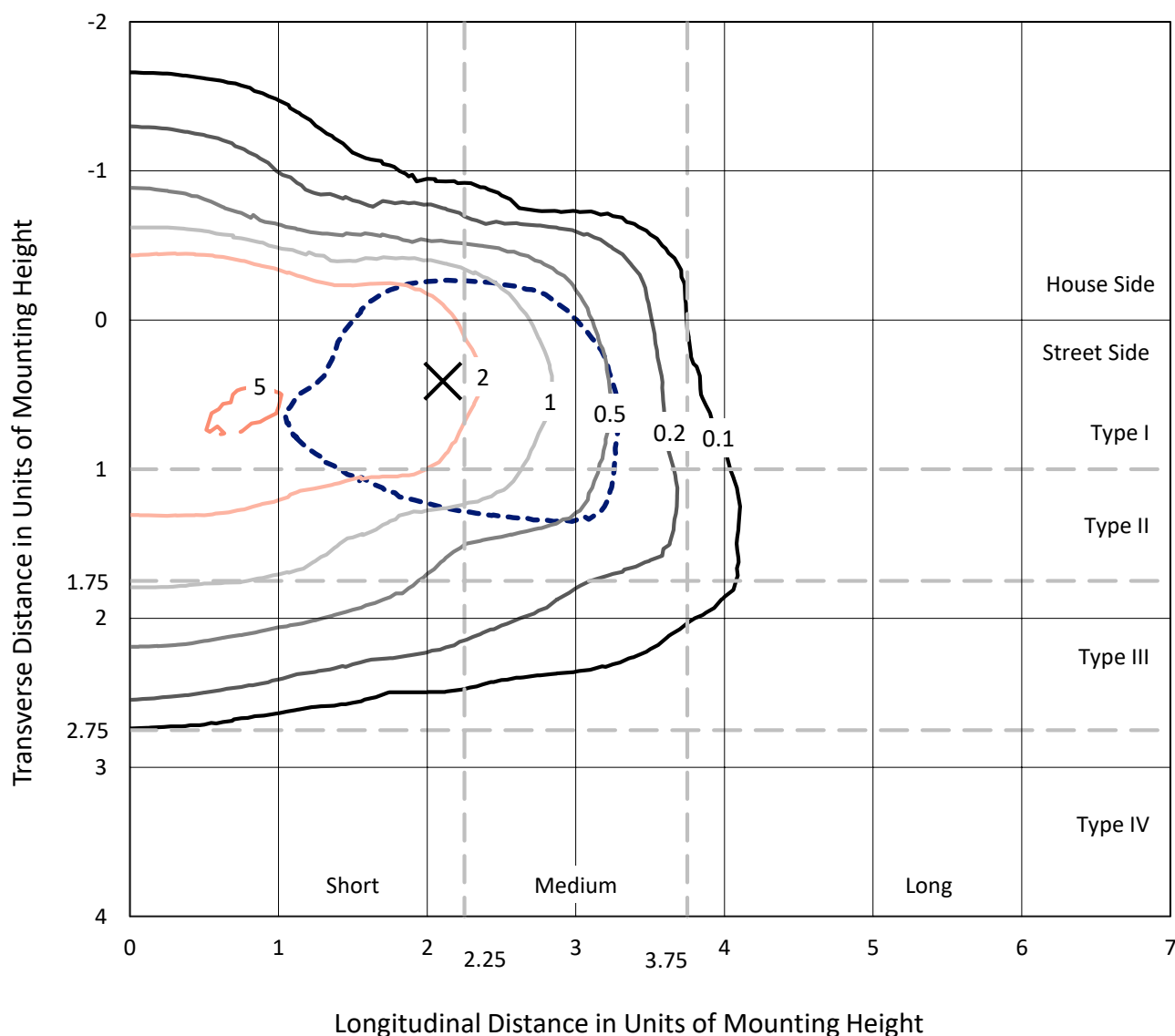
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

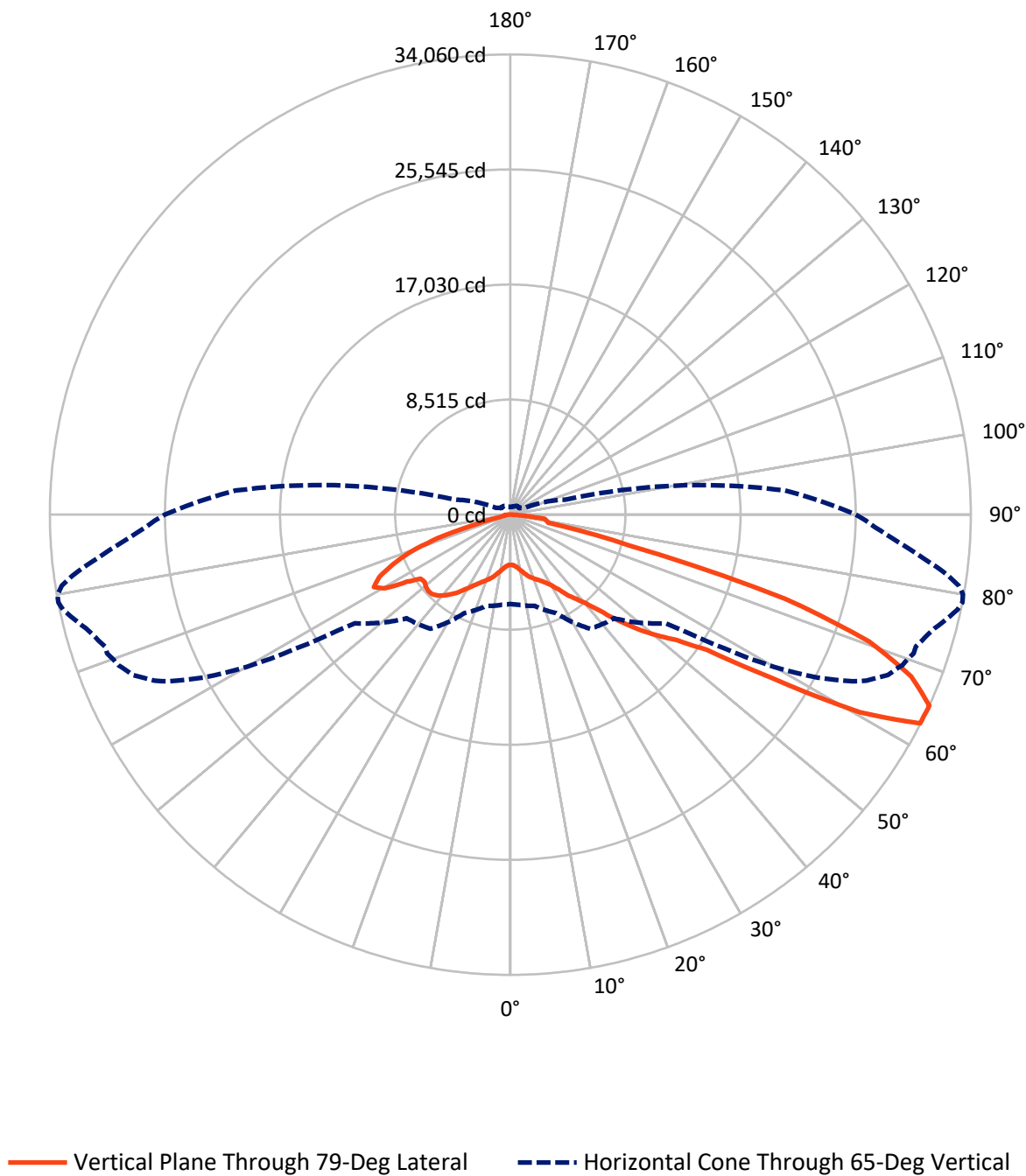


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7803.5	0.0	7803.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	26156.9	0.0	26156.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	33960.4	0.0	33960.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.6	1.1
10°-20°	1194.0	3.5
20°-30°	2058.3	6.1
30°-40°	3371.5	9.9
40°-50°	5646.0	16.6
50°-60°	7637.1	22.5
60°-70°	9405.1	27.7
70°-80°	3640.6	10.7
80°-90°	640.2	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°	33960.4	100.0
0°-180°	33960.4	100.0

Coefficient of Utilization



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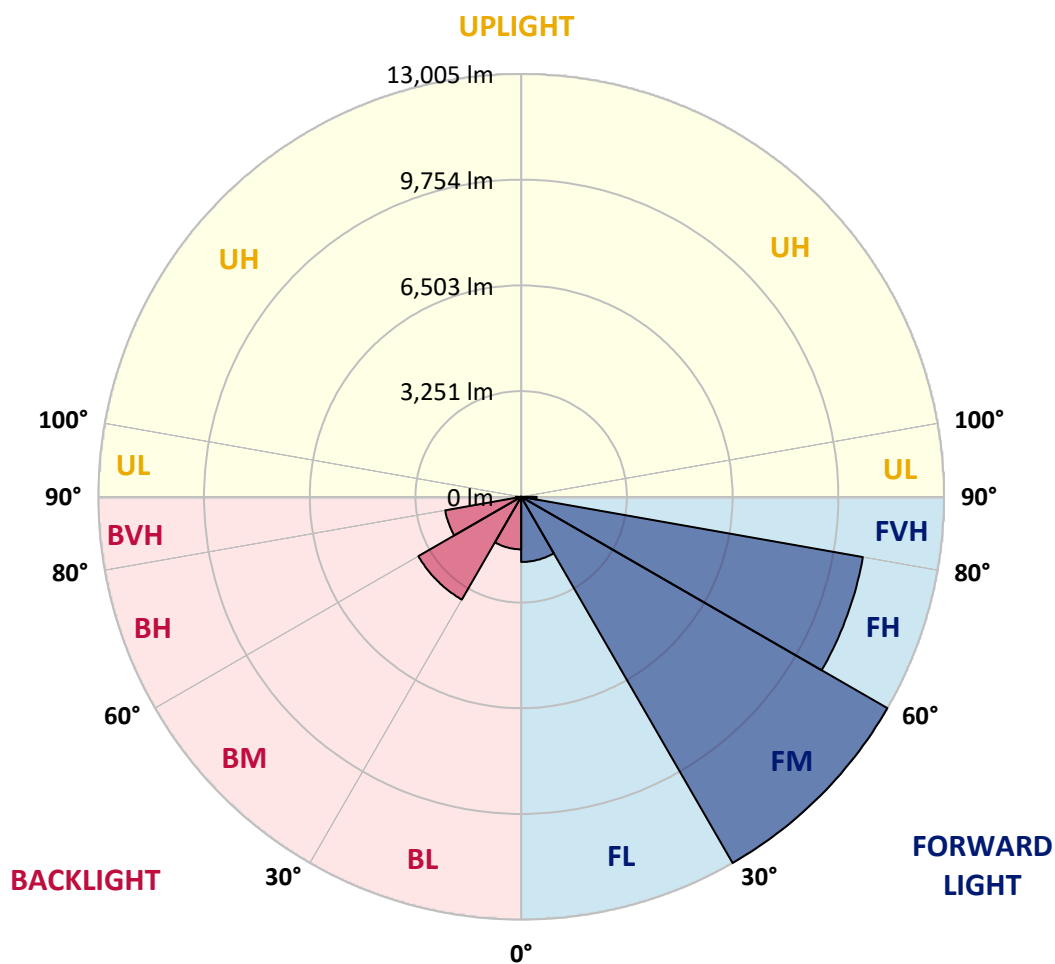
CATALOG NUMBER: VST-E11-LED-E-U-SL2-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2004.9	5.9			
FM	(30°-60°)	13005.4	38.3			
FH	(60°-80°)	10671.6	31.4			G4/12000
FVH	(80°-90°)	475.1	1.4			G3/500
BL	(0°-30°)	1614.9	4.8	B3/2500		
BM	(30°-60°)	3649.3	10.7	B3/5000		
BH	(60°-80°)	2374.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	165.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7
2.5°	3722.5	3711.2	3722.5	3731.5	3738.3	3747.3	3745.1	3742.8	3740.6	3742.8	3742.8
5°	3754.1	3751.9	3763.1	3772.2	3788.0	3799.3	3812.8	3812.8	3812.8	3810.5	3815.1
7.5°	3855.7	3853.4	3864.7	3873.8	3887.3	3909.9	3927.9	3937.0	3934.7	3934.7	3934.7
10°	4022.7	4013.7	4013.7	4013.7	4031.8	4047.6	4088.2	4092.7	4101.8	4097.2	4099.5
12.5°	4185.3	4187.5	4180.8	4174.0	4176.2	4207.9	4266.5	4277.8	4280.1	4286.9	4291.4
15°	4332.0	4329.8	4314.0	4298.2	4318.5	4372.6	4449.4	4469.7	4469.7	4483.3	4492.3
17.5°	4467.5	4462.9	4433.6	4406.5	4426.8	4519.4	4639.0	4652.6	4672.9	4679.7	4688.7
20°	4627.7	4618.7	4584.8	4512.6	4512.6	4639.0	4797.0	4810.6	4828.6	4833.2	4849.0
22.5°	4851.2	4828.6	4756.4	4625.5	4589.4	4736.1	4930.2	4937.0	4950.5	4968.6	4982.2
25°	5104.1	5108.6	4991.2	4763.2	4684.2	4837.7	5058.9	5070.2	5095.0	5108.6	5124.4
27.5°	5365.9	5372.7	5241.8	4957.3	4824.1	4977.6	5232.7	5246.3	5275.6	5291.4	5316.3
30°	5663.9	5672.9	5546.5	5259.8	5056.6	5183.1	5490.1	5526.2	5551.0	5571.3	5612.0
32.5°	6379.5	6325.3	6237.3	5932.5	5612.0	5602.9	5905.4	5946.1	5979.9	6022.8	6061.2
35°	7280.2	7314.1	7359.2	7153.8	6871.6	6666.2	6691.0	6668.5	6700.1	6763.3	6801.6
37.5°	7993.6	8068.1	8264.5	8397.6	8386.4	8345.7	7966.5	7966.5	7986.8	7952.9	7948.4
40°	8553.4	8600.8	9002.6	9519.6	9955.3	10169.7	9869.5	9826.6	9849.2	9675.4	9682.1
42.5°	8842.4	8912.3	9490.2	10397.7	11262.3	11950.8	11858.3	11828.9	11761.2	11718.3	11691.2
45°	8989.1	9072.6	9761.1	11007.2	12266.9	13330.1	13808.7	13804.2	13743.2	13693.6	13671.0
47.5°	8914.6	8986.8	9720.5	11192.3	12795.1	14219.6	15278.3	15343.8	15325.7	15397.9	15427.3
50°	8427.0	8519.5	9255.5	10792.8	12573.9	14569.5	16296.4	16418.3	16583.1	16686.9	16824.6
52.5°	7986.8	8063.5	8727.2	10144.9	11847.0	14285.0	16910.4	17161.0	17386.7	17598.9	17763.7
55°	7526.3	7603.0	8185.4	9472.2	11113.3	13445.3	17190.3	17556.0	17908.2	18267.1	18596.7
57.5°	7352.5	7433.7	7867.2	8950.7	10512.9	12612.3	17328.0	17928.5	18501.9	19111.4	19743.5
60°	7803.9	7876.2	8205.8	8964.3	10054.6	11779.3	17050.4	17994.0	18980.5	19985.0	20955.7
62.5°	7666.2	7704.6	8115.5	9291.6	10639.3	10957.6	15847.2	17093.3	18526.7	19998.6	21486.2
65°	6614.3	6688.8	6998.0	8031.9	10311.9	10847.0	14014.1	15267.0	16957.8	18698.3	20691.6
67.5°	4745.1	4641.3	4880.6	5785.8	8000.3	10828.9	11950.8	12878.6	14203.8	15537.9	17172.3
70°	2155.8	2106.2	2293.6	3009.2	4826.4	8557.9	10104.3	10418.0	10910.2	11808.6	12912.5
72.5°	851.1	848.8	970.7	1243.8	2282.3	5508.1	8497.0	8677.6	8851.4	9241.9	9718.2
75°	557.6	557.6	593.7	670.5	1124.2	2659.3	7187.7	7352.5	7618.8	7729.4	7932.6
77.5°	419.9	422.1	437.9	456.0	620.8	1399.6	5072.4	5657.1	6108.6	6445.0	6691.0
80°	298.0	311.5	340.9	352.2	404.1	796.9	2866.9	3289.1	3799.3	4343.3	5027.3
82.5°	223.5	239.3	289.0	302.5	320.6	453.7	1293.5	1467.3	1713.4	2221.3	3194.3
85°	103.8	115.1	198.7	216.7	232.5	261.9	656.9	733.7	833.0	912.0	1063.3
87.5°	15.8	11.3	33.9	47.4	74.5	76.8	225.7	268.6	291.2	349.9	363.4
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°	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7
2.5°	3742.8	3745.1	3747.3	3742.8	3745.1	3745.1	3740.6	3738.3	3738.3	3738.3	3740.6
5°	3815.1	3819.6	3815.1	3817.3	3826.3	3824.1	3819.6	3817.3	3826.3	3828.6	3821.8
7.5°	3943.7	3946.0	3937.0	3948.2	3952.8	3955.0	3955.0	3959.5	3959.5	3966.3	3959.5
10°	4108.5	4108.5	4124.3	4122.1	4124.3	4128.8	4131.1	4140.1	4146.9	4146.9	4151.4
12.5°	4298.2	4300.4	4316.2	4318.5	4327.5	4329.8	4343.3	4334.3	4356.8	4356.8	4363.6
15°	4494.5	4510.3	4512.6	4535.2	4539.7	4542.0	4560.0	4560.0	4575.8	4578.1	4582.6
17.5°	4688.7	4702.2	4711.3	4729.3	4745.1	4751.9	4758.7	4772.2	4783.5	4788.0	4799.3
20°	4855.7	4869.3	4878.3	4896.4	4909.9	4921.2	4928.0	4943.8	4955.1	4959.6	4975.4
22.5°	4995.7	5004.7	5020.5	5045.4	5049.9	5063.4	5083.7	5095.0	5099.5	5113.1	5131.1
25°	5144.7	5158.2	5167.3	5189.8	5207.9	5230.5	5248.5	5266.6	5271.1	5289.2	5305.0
27.5°	5343.3	5356.9	5359.1	5404.3	5422.4	5454.0	5474.3	5501.4	5514.9	5530.7	5562.3
30°	5636.8	5668.4	5682.0	5733.9	5742.9	5779.0	5815.1	5824.2	5844.5	5846.7	5898.7
32.5°	6086.0	6131.2	6149.2	6203.4	6217.0	6250.8	6271.1	6318.6	6320.8	6343.4	6354.7
35°	6822.0	6810.7	6880.7	6894.2	6934.8	6964.2	6984.5	6984.5	7027.4	7029.6	7043.2
37.5°	7826.5	7803.9	7822.0	7740.7	7761.1	7724.9	7718.2	7727.2	7709.1	7713.6	7711.4
40°	9433.8	9332.2	9226.1	8975.5	8921.4	8817.5	8736.3	8670.8	8607.6	8539.9	8494.7
42.5°	11449.7	11303.0	11144.9	10743.1	10555.8	10354.8	10158.4	10045.6	9819.8	9682.1	9607.6
45°	13562.7	13391.1	13169.9	12835.8	12569.4	12354.9	11996.0	11826.7	11476.8	11303.0	11068.2
47.5°	15294.1	15296.4	15118.0	14779.4	14495.0	14352.8	14129.3	13801.9	13404.6	13181.1	12763.5
50°	16808.8	16806.6	16795.3	16592.1	16393.5	16237.7	16041.3	15745.6	15420.5	15167.7	14689.1
52.5°	17928.5	18077.5	18140.7	18138.5	18113.6	18041.4	17892.4	17637.3	17307.7	17165.5	16784.0
55°	18854.1	19179.1	19348.4	19718.7	19752.5	19872.2	19741.2	19743.5	19549.4	19562.9	19441.0
57.5°	20255.9	20849.6	21190.5	22010.0	22420.8	22917.4	22829.4	23244.8	23396.0	23587.9	23843.0
60°	21847.4	22955.8	23764.0	25393.9	26057.5	26861.2	27303.6	27775.4	28118.6	28470.7	28730.3
62.5°	22985.2	24441.2	25768.6	28091.5	28953.8	29800.4	30357.9	30929.1	31315.1	31567.9	31755.3
65°	22520.1	24129.7	25698.6	28134.4	29073.5	29687.5	30351.2	30680.8	31066.8	31276.7	31545.4
67.5°	19136.3	20750.3	22432.1	25305.8	26287.8	27136.6	27653.5	28080.2	28391.7	28658.1	28967.4
70°	14230.9	15996.2	17734.4	20885.8	22125.1	23350.9	23960.4	24488.6	24813.7	25082.3	25423.2
72.5°	10242.0	11348.1	12433.9	15962.3	17201.6	18786.3	19418.4	20005.4	20427.5	20414.0	20775.1
75°	8153.8	8603.1	9086.2	10907.9	11797.3	13133.7	13488.2	13817.7	13619.1	13237.6	13215.0
77.5°	6788.1	6973.2	7135.7	7706.9	7837.8	8156.1	7980.0	7797.2	7208.0	6711.3	6449.5
80°	5510.4	5876.1	6115.4	6521.7	6688.8	6783.6	6808.4	6745.2	6528.5	6228.3	5749.7
82.5°	4097.2	4792.5	5266.6	6065.7	6359.2	6420.1	6537.5	6465.3	6323.1	6079.3	5736.1
85°	1201.0	1359.0	1557.6	2113.0	2476.4	2785.7	3101.7	3257.5	3354.5	3219.1	2864.7
87.5°	422.1	476.3	532.8	733.7	781.1	943.6	925.5	1092.6	1099.4	1146.8	1097.1
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7
2.5°	3738.3	3738.3	3738.3	3740.6	3740.6	3740.6	3736.0	3733.8	3736.0	3740.6	3740.6
5°	3826.3	3828.6	3833.1	3824.1	3826.3	3833.1	3828.6	3826.3	3828.6	3833.1	3828.6
7.5°	3968.6	3970.8	3966.3	3975.3	3975.3	3979.9	3986.6	3979.9	3982.1	3984.4	3986.6
10°	4153.7	4155.9	4160.4	4167.2	4169.5	4174.0	4178.5	4185.3	4185.3	4180.8	4192.1
12.5°	4374.9	4372.6	4377.2	4386.2	4390.7	4397.5	4411.0	4411.0	4420.1	4417.8	4429.1
15°	4591.6	4602.9	4605.2	4621.0	4627.7	4639.0	4654.8	4663.9	4663.9	4677.4	4681.9
17.5°	4808.3	4817.4	4826.4	4839.9	4849.0	4855.7	4873.8	4885.1	4882.8	4907.7	4907.7
20°	4975.4	4993.4	5004.7	5013.8	5029.6	5040.8	5054.4	5067.9	5077.0	5092.8	5097.3
22.5°	5137.9	5149.2	5165.0	5176.3	5194.4	5207.9	5223.7	5235.0	5250.8	5271.1	5277.9
25°	5318.5	5336.6	5354.6	5370.4	5384.0	5399.8	5426.9	5451.7	5474.3	5492.3	5499.1
27.5°	5569.1	5589.4	5616.5	5627.8	5648.1	5661.6	5702.3	5733.9	5745.2	5776.8	5785.8
30°	5907.7	5930.3	5957.4	5970.9	6007.0	6025.1	6068.0	6101.8	6113.1	6151.5	6158.3
32.5°	6397.6	6411.1	6465.3	6463.0	6512.7	6564.6	6589.4	6616.5	6666.2	6686.5	6693.3
35°	7077.0	7108.7	7147.0	7144.8	7208.0	7237.3	7287.0	7316.3	7352.5	7350.2	7388.6
37.5°	7734.0	7745.2	7758.8	7788.1	7833.3	7873.9	7892.0	7921.3	7948.4	7989.1	8038.7
40°	8449.6	8476.7	8478.9	8494.7	8517.3	8569.2	8603.1	8634.7	8727.2	8785.9	8815.3
42.5°	9521.8	9515.1	9469.9	9499.3	9512.8	9591.8	9616.7	9713.7	9817.6	9941.7	9975.6
45°	10901.1	10810.8	10783.8	10772.5	10844.7	10885.3	10986.9	11167.5	11275.9	11393.3	11449.7
47.5°	12598.7	12316.5	12183.4	12154.0	12228.5	12402.3	12436.2	12614.5	12756.7	12842.5	12899.0
50°	14298.6	14077.3	13797.4	13702.6	13682.3	13842.6	13880.9	14029.9	14174.4	14199.2	14169.9
52.5°	16434.1	16072.9	15610.1	15443.1	15309.9	15321.2	15352.8	15416.0	15508.6	15470.2	15391.2
55°	19165.6	18754.7	18526.7	18210.7	18009.8	17973.7	17836.0	17646.3	17639.6	17664.4	17427.4
57.5°	23714.3	23542.8	23639.8	23606.0	23407.3	23527.0	22906.2	22730.1	22590.1	22346.3	22127.3
60°	28960.6	29136.7	29337.6	29800.4	29780.0	30245.1	29813.9	29705.5	29574.6	28822.9	28454.9
62.5°	32082.6	32152.6	32448.3	32879.5	33303.9	33748.6	33949.5	34019.5	33746.4	33132.3	32364.8
65°	31538.6	31847.9	32134.5	32507.0	32942.7	33387.4	33811.8	34060.1	33996.9	33590.6	32746.3
67.5°	29066.7	29391.8	29811.6	30202.2	30671.7	31057.7	31522.8	31978.8	31992.3	31789.2	31202.2
70°	25459.3	25836.3	26269.7	26488.7	26996.6	27346.5	27732.6	28184.0	28330.8	28355.6	27671.6
72.5°	20698.4	20856.4	21068.6	20953.5	21055.1	21278.6	21174.7	21210.8	20653.2	20757.1	19912.8
75°	12605.5	12461.0	11819.9	11235.2	10521.9	9973.3	10104.3	9056.8	8025.2	7973.2	7228.3
77.5°	6393.0	6162.8	5765.5	5352.4	4747.4	4054.3	3476.4	2853.4	2327.4	2027.2	1740.5
80°	5444.9	5282.4	5063.4	4763.2	4323.0	3810.5	3207.8	2733.8	2293.6	1835.3	1469.6
82.5°	5210.2	4713.5	4395.2	4144.6	3668.3	3194.3	2864.7	2539.6	2228.1	1945.9	1541.8
85°	2584.8	2286.8	1934.6	1715.6	1320.6	1033.9	968.4	796.9	742.7	573.4	483.1
87.5°	869.1	711.1	530.5	447.0	356.7	291.2	286.7	255.1	252.8	230.3	212.2
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7
2.5°	3738.3	3742.8	3742.8	3738.3	3740.6	3736.0	3738.3	3740.6	3733.8	3731.5	3724.8
5°	3830.9	3828.6	3828.6	3830.9	3837.6	3839.9	3828.6	3833.1	3835.4	3824.1	3799.3
7.5°	3984.4	3984.4	3991.1	3988.9	4002.4	3997.9	3995.7	3995.7	3995.7	3973.1	3932.4
10°	4192.1	4192.1	4198.8	4207.9	4210.1	4205.6	4205.6	4207.9	4219.1	4174.0	4110.8
12.5°	4424.6	4435.9	4433.6	4433.6	4460.7	4453.9	4444.9	4453.9	4465.2	4402.0	4311.7
15°	4684.2	4690.9	4695.5	4711.3	4706.7	4722.5	4727.1	4722.5	4733.8	4652.6	4501.3
17.5°	4918.9	4932.5	4937.0	4955.1	4955.1	4957.3	4975.4	4968.6	4970.9	4878.3	4661.6
20°	5113.1	5126.6	5133.4	5153.7	5158.2	5167.3	5174.0	5178.5	5189.8	5079.2	4792.5
22.5°	5307.2	5318.5	5329.8	5343.3	5361.4	5372.7	5381.7	5386.2	5406.5	5277.9	4916.7
25°	5523.9	5548.8	5560.1	5582.6	5600.7	5618.7	5632.3	5634.6	5668.4	5508.1	5018.3
27.5°	5812.9	5846.7	5864.8	5900.9	5919.0	5937.0	5932.5	5959.6	6007.0	5772.3	5097.3
30°	6192.1	6235.0	6246.3	6282.4	6311.8	6329.8	6350.2	6372.7	6404.3	6065.7	5135.7
32.5°	6720.4	6785.8	6801.6	6822.0	6864.9	6896.5	6910.0	6946.1	6955.1	6343.4	5124.4
35°	7445.0	7415.7	7492.4	7510.5	7571.4	7596.3	7612.1	7659.5	7623.3	6645.9	5049.9
37.5°	8099.7	8090.6	8165.1	8205.8	8284.8	8266.7	8305.1	8336.7	8208.0	6860.3	4912.2
40°	8898.8	8887.5	8991.4	9004.9	9126.8	9099.7	9115.5	9140.3	8853.6	7009.3	4661.6
42.5°	10014.0	10018.5	10129.1	10142.6	10158.4	10208.1	10126.8	10131.4	9539.9	7050.0	4248.5
45°	11483.6	11562.6	11494.8	11497.1	11492.6	11397.8	11296.2	11176.5	10253.3	6910.0	3715.7
47.5°	12908.0	12853.8	12768.0	12689.0	12623.6	12474.6	12325.6	12122.4	10869.5	6578.2	3122.0
50°	14127.0	14005.1	13928.4	13709.4	13553.6	13359.5	13151.8	12919.3	11375.2	6099.6	2566.7
52.5°	15260.2	15133.8	14847.1	14619.1	14395.6	14138.3	13896.8	13623.6	11822.2	5553.3	2142.3
55°	17142.9	17032.3	16745.6	16328.0	16052.6	15698.2	15379.9	15009.7	12727.4	5110.8	1862.4
57.5°	21524.6	21429.8	20827.1	20562.9	20199.5	19310.1	19179.1	18601.2	15154.1	5058.9	1697.6
60°	27694.2	27287.8	26786.7	26064.3	25213.3	24919.8	24265.1	23495.4	19059.5	5201.1	1564.4
62.5°	31482.1	30556.6	29820.7	28987.7	28204.4	27531.6	26816.0	26055.3	21057.3	5013.8	1399.6
65°	31766.6	30678.5	29705.5	28728.1	27847.7	27010.2	26314.9	25554.1	20407.2	4309.4	1185.2
67.5°	30199.9	29053.1	27992.2	26883.8	25994.3	25238.1	24353.2	23621.8	18574.2	3354.5	986.5
70°	26969.5	25962.7	25048.5	23854.3	23116.1	22195.1	21633.0	20718.7	16190.3	2286.8	814.9
72.5°	19425.2	18666.7	18368.7	17535.7	16569.6	16027.8	15768.2	14881.0	11964.4	1419.9	665.9
75°	6562.4	6749.7	6320.8	5663.9	5984.5	5490.1	5691.0	5268.8	5061.2	814.9	559.8
77.5°	1456.0	1368.0	1264.2	1173.9	1167.1	1097.1	1162.6	1099.4	1176.1	519.2	494.4
80°	1149.0	907.5	772.0	704.3	668.2	647.9	632.1	614.0	559.8	442.5	456.0
82.5°	1241.6	936.8	686.3	548.6	469.5	440.2	433.4	415.4	410.9	428.9	460.5
85°	397.3	331.8	282.2	266.4	246.1	234.8	230.3	223.5	270.9	467.3	442.5
87.5°	207.7	182.9	162.5	155.8	135.4	126.4	124.2	126.4	189.6	467.3	320.6
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):

	125°	135°	145°	155°	165°	175°	180°
0°	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7	3715.7
2.5°	3718.0	3715.7	3711.2	3709.0	3706.7	3695.4	3704.4
5°	3788.0	3765.4	3745.1	3720.2	3706.7	3695.4	3695.4
7.5°	3894.1	3830.9	3778.9	3722.5	3684.1	3654.8	3650.3
10°	4027.3	3905.4	3785.7	3684.1	3611.9	3557.7	3550.9
12.5°	4153.7	3968.6	3778.9	3611.9	3499.0	3422.3	3417.8
15°	4271.1	4002.4	3727.0	3481.0	3311.7	3210.1	3198.8
17.5°	4363.6	3982.1	3609.6	3298.1	3067.9	2948.2	2941.4
20°	4383.9	3900.8	3442.6	3072.4	2828.6	2702.1	2672.8
22.5°	4365.9	3754.1	3234.9	2824.0	2544.1	2417.7	2401.9
25°	4311.7	3575.8	2977.6	2535.1	2275.5	2146.8	2115.2
27.5°	4214.6	3365.8	2699.9	2255.2	1997.8	1873.7	1842.1
30°	4070.1	3113.0	2404.2	1993.3	1726.9	1627.6	1596.0
32.5°	3869.2	2806.0	2113.0	1724.7	1503.4	1424.4	1410.9
35°	3591.6	2453.8	1808.2	1503.4	1340.9	1293.5	1286.7
37.5°	3237.2	2101.7	1553.1	1345.4	1228.0	1198.7	1194.2
40°	2774.4	1740.5	1372.5	1232.6	1146.8	1121.9	1117.4
42.5°	2298.1	1469.6	1239.3	1142.3	1072.3	1049.7	1042.9
45°	1880.4	1286.7	1140.0	1067.8	1002.3	977.5	975.2
47.5°	1568.9	1180.6	1058.7	1000.0	934.6	905.2	907.5
50°	1340.9	1083.6	991.0	941.3	866.9	839.8	842.0
52.5°	1185.2	986.5	927.8	871.4	808.2	781.1	781.1
55°	1063.3	907.5	866.9	805.9	756.2	731.4	729.2
57.5°	963.9	844.3	808.2	758.5	708.8	679.5	679.5
60°	903.0	799.1	769.8	724.6	665.9	634.3	632.1
62.5°	866.9	785.6	760.8	697.5	632.1	600.5	593.7
65°	839.8	817.2	785.6	681.7	605.0	571.1	564.4
67.5°	842.0	891.7	846.5	690.8	596.0	546.3	537.3
70°	855.6	950.4	889.4	711.1	634.3	535.0	514.7
72.5°	787.8	860.1	801.4	677.2	618.5	514.7	489.9
75°	656.9	627.6	575.6	550.8	555.3	467.3	458.3
77.5°	532.8	467.3	417.6	437.9	467.3	399.6	390.5
80°	462.8	379.2	354.4	388.3	424.4	340.9	318.3
82.5°	433.4	320.6	304.8	404.1	444.7	293.5	257.3
85°	381.5	261.9	239.3	476.3	444.7	221.2	205.4
87.5°	255.1	155.8	149.0	349.9	304.8	153.5	124.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)