

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: P165447

Luminaire Tested: **VTS-E12-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165447
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-SL4-HSS
Description: VENTUS LED SITE LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (252) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24125.9 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G5

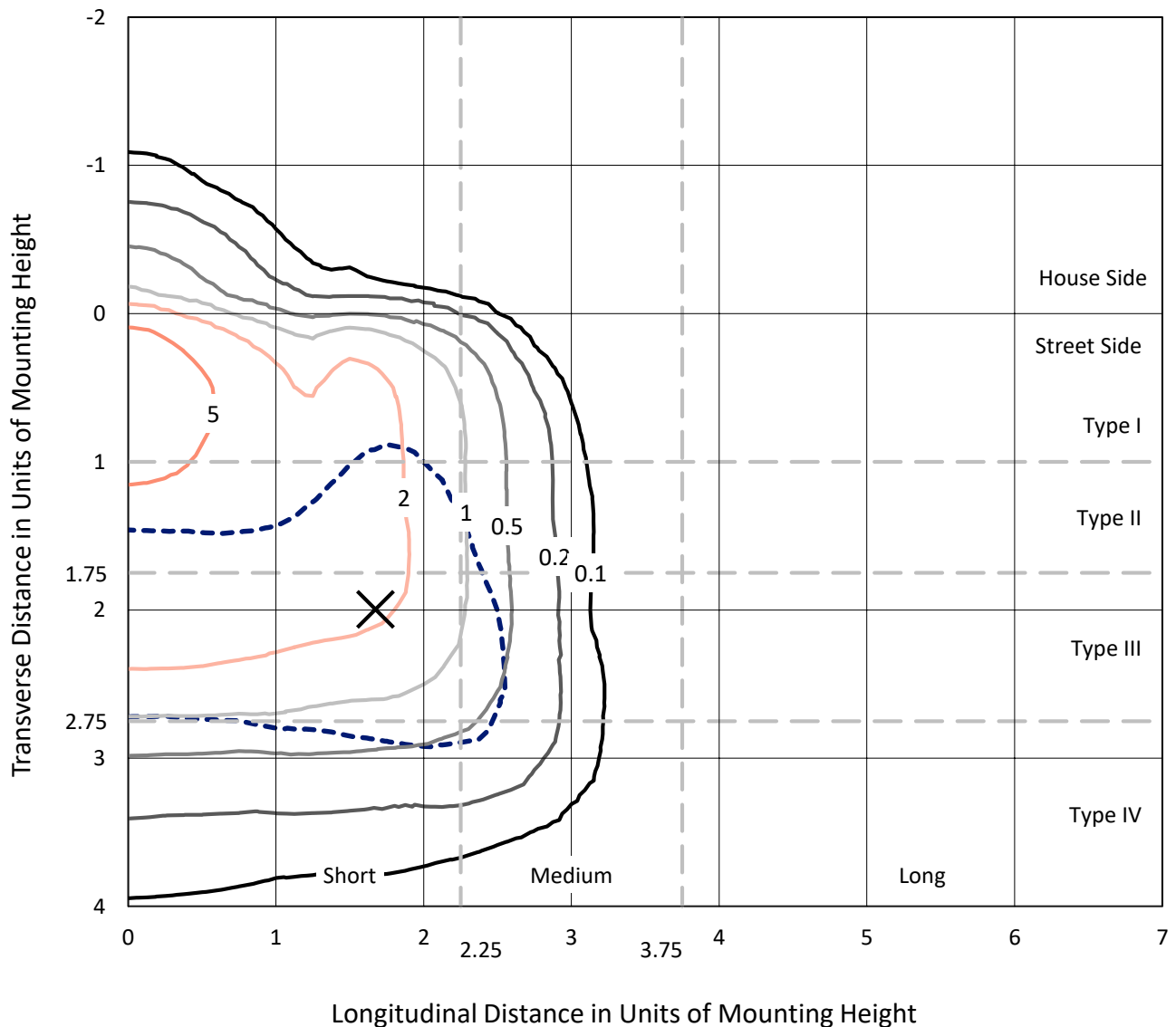
Input Watts (W): 291.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

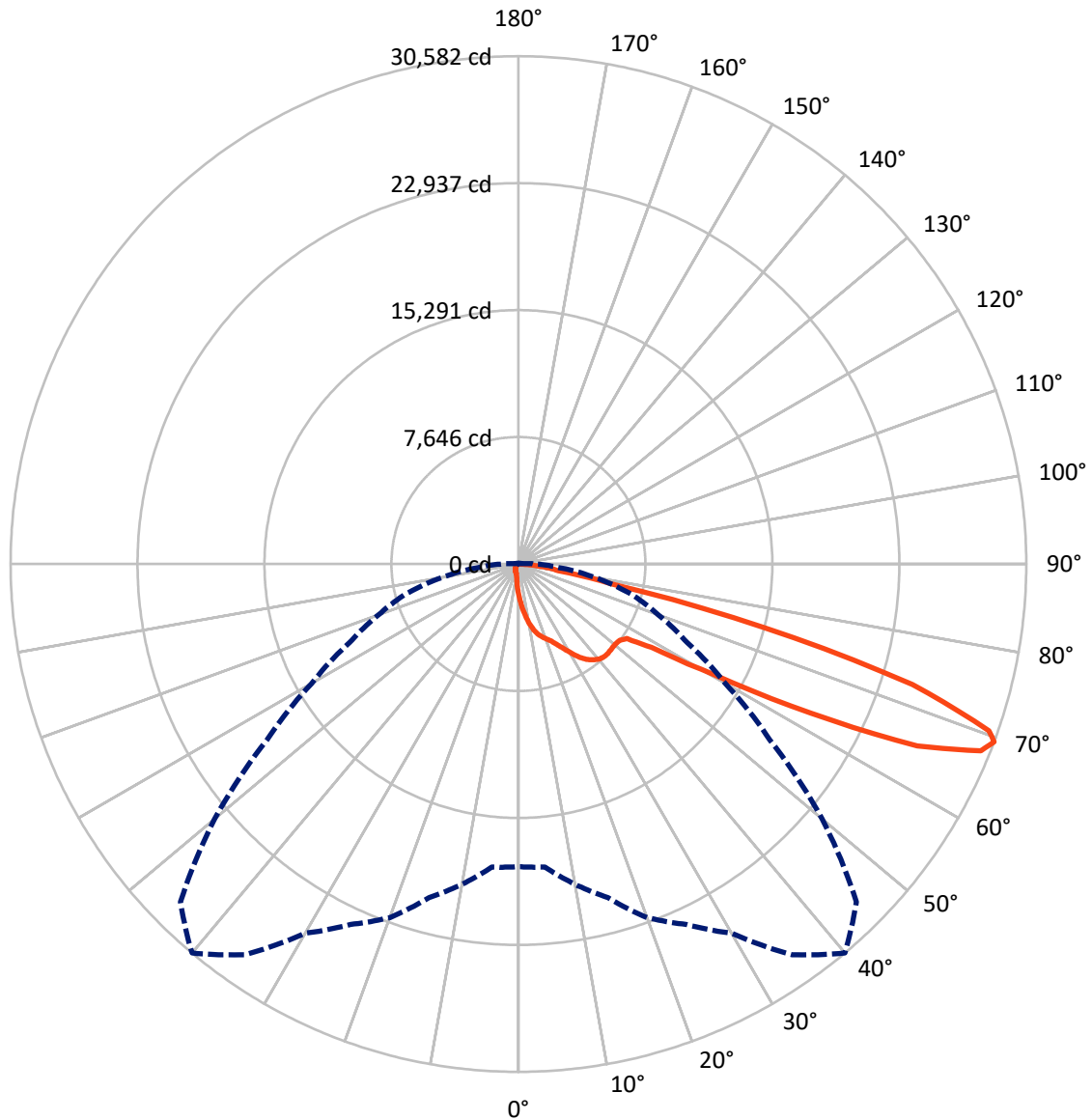


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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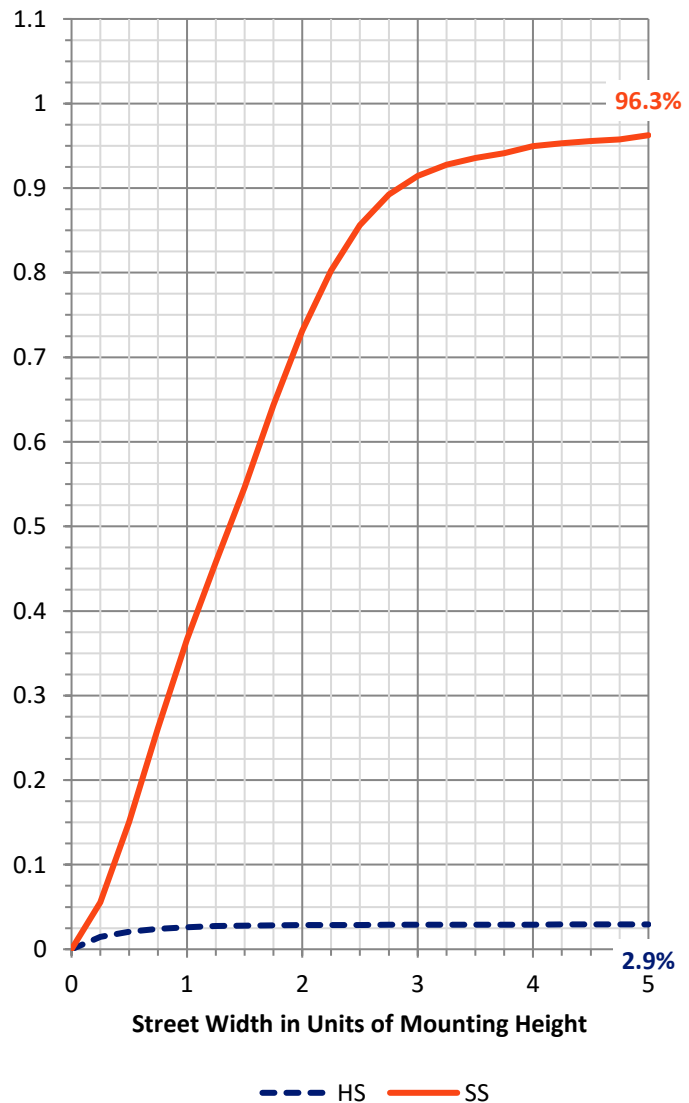
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	718.5	0.0	718.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	23407.4	0.0	23407.4
	% Fixture	97.0	0.0	97.0
Total	Lumens	24125.9	0.0	24125.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	0.8
10°-20°	645.7	2.7
20°-30°	1235.8	5.1
30°-40°	2055.1	8.5
40°-50°	2780.9	11.5
50°-60°	4349.0	18.0
60°-70°	8941.5	37.1
70°-80°	3597.9	14.9
80°-90°	332.8	1.4
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°	24125.9	100.0
0°-180°	24125.9	100.0



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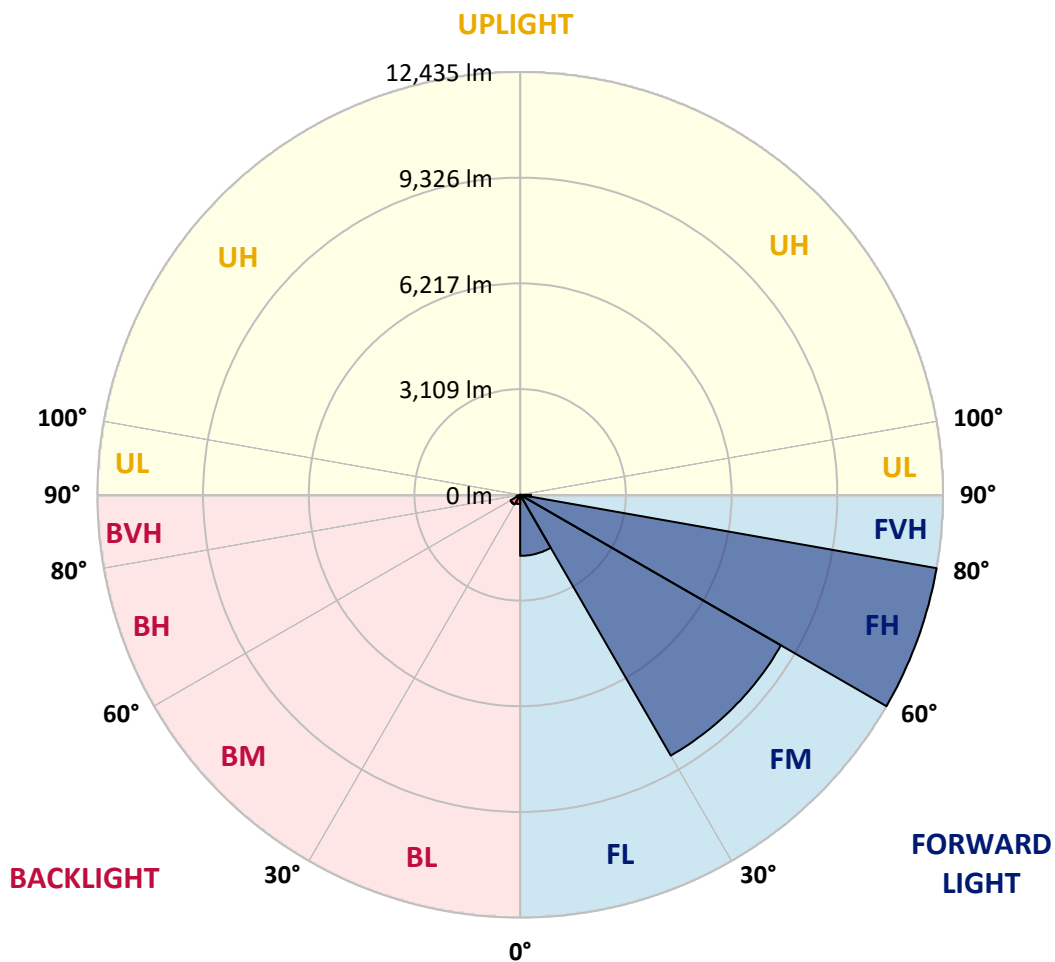
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1795.4	7.4			
FM	(30°-60°)	8857.0	36.7			
FH	(60°-80°)	12434.6	51.5			G5
FVH	(80°-90°)	320.4	1.3			G3/500
BL	(0°-30°)	273.3	1.1	B1/500		
BM	(30°-60°)	328.0	1.4	B1/1000		
BH	(60°-80°)	104.8	0.4	B0/110		G0/110
BVH	(80°-90°)	12.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	2430.7	2402.9	2371.2	2371.2	2331.8	2331.8	2308.1	2245.0	2237.0	2201.3	2165.8
5°	3102.5	3078.7	3039.4	3003.6	2972.2	2916.7	2877.1	2802.0	2719.2	2640.0	2569.0
7.5°	3758.6	3746.6	3675.6	3663.6	3612.2	3521.5	3442.3	3331.7	3189.4	3078.7	2948.4
10°	4367.3	4339.4	4323.6	4256.4	4181.5	4082.6	3960.0	3825.8	3659.8	3485.8	3300.0
12.5°	4849.4	4833.6	4762.3	4734.7	4655.8	4556.9	4402.8	4228.8	4063.0	3837.6	3620.2
15°	5209.0	5181.4	5133.8	5090.4	4995.6	4908.7	4766.4	4576.6	4375.2	4130.2	3869.3
17.5°	5509.4	5458.1	5446.1	5378.9	5280.2	5177.3	5019.4	4845.4	4608.2	4363.2	4078.6
20°	5912.4	5841.4	5817.6	5718.7	5604.2	5461.9	5280.2	5062.8	4813.7	4545.1	4252.6
22.5°	6386.6	6335.3	6283.9	6197.0	6050.9	5849.3	5584.6	5347.4	5031.1	4734.7	4418.6
25°	7058.6	7015.2	6932.2	6813.6	6631.7	6390.7	6070.6	5722.8	5351.3	4971.8	4600.3
27.5°	7710.7	7671.1	7611.8	7521.1	7315.4	7050.7	6655.4	6212.9	5742.5	5284.1	4873.0
30°	8323.4	8287.7	8228.4	8137.7	7955.8	7694.9	7248.2	6774.0	6189.1	5655.6	5161.7
32.5°	8983.4	8971.4	8904.2	8773.9	8615.8	8264.2	7777.9	7268.2	6675.4	6058.8	5481.6
35°	9730.3	9639.4	9576.2	9445.7	9177.1	8801.5	8232.5	7675.2	7050.7	6418.3	5774.2
37.5°	10362.7	10275.8	10196.6	10030.8	9702.7	9224.4	8580.2	7967.5	7323.4	6679.2	6023.0
40°	10825.0	10781.5	10686.7	10469.3	10101.8	9532.8	8837.0	8169.1	7521.1	6872.9	6224.6
42.5°	11168.9	11101.7	10995.1	10769.8	10335.1	9686.9	8939.8	8252.2	7611.8	6991.4	6355.2
45°	11295.4	11240.2	11141.3	10896.2	10425.8	9730.3	8935.9	8228.4	7615.9	7027.0	6442.1
47.5°	11220.2	11165.0	11077.9	10848.7	10386.5	9679.0	8864.9	8161.2	7576.3	7039.0	6521.0
50°	10971.4	10939.7	10872.5	10678.8	10263.8	9580.1	8801.5	8125.7	7568.4	7098.2	6631.7
52.5°	10947.6	10927.9	10844.9	10651.2	10228.3	9548.4	8793.6	8145.6	7635.6	7173.4	6710.9
55°	13378.1	13097.5	12469.2	11935.7	11058.2	10015.0	9192.7	8465.5	7920.2	7469.8	7145.5
57.5°	19014.0	18595.2	17769.1	16753.4	14737.7	12757.7	11173.0	10026.7	9461.5	9256.1	9378.5
60°	21654.0	21579.1	21448.6	20966.4	19934.9	18231.6	16334.4	14283.4	13461.1	13390.1	13639.0
62.5°	22907.0	22859.5	22899.1	22839.8	22519.7	22021.7	21476.2	20591.0	19776.7	19251.1	18136.6
65°	23484.0	23515.7	23740.8	23918.6	23958.2	24088.6	24487.9	25590.5	26396.6	25041.1	21946.6
67.5°	22017.6	22203.4	22721.3	23369.3	24128.2	24863.3	26048.9	28372.8	30028.8	28436.2	24041.3
69°	18227.5	18318.5	19583.0	20804.4	22657.9	23954.4	25673.5	28720.6	30582.2	28783.9	23875.2
70°	14350.3	14433.4	15789.1	17449.0	20583.1	22250.9	24499.7	28131.8	30064.3	28321.4	23021.5
72.5°	6473.8	6355.2	6833.3	7722.5	11129.3	13777.4	17709.8	22792.3	24804.0	22689.6	17223.6
75°	4521.4	4470.0	4521.4	4525.2	5054.9	6521.0	8228.4	12354.5	15279.1	13184.6	8228.4
77.5°	3501.6	3466.1	3430.6	3391.0	3454.3	3869.3	4035.1	4382.9	5691.1	5383.0	3138.0
80°	2770.6	2738.9	2825.8	2798.2	2798.2	2845.7	2814.0	2683.4	2438.4	2260.6	2023.4
82.5°	1288.3	1296.2	1296.2	1406.9	1695.6	1980.0	2071.0	1940.6	1723.2	1466.2	1181.8
85°	122.4	138.2	233.3	359.8	715.4	806.2	810.2	671.8	671.8	529.7	426.7
87.5°	0.0	3.8	3.8	3.8	35.5	98.9	83.0	23.8	11.8	11.8	19.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	2102.6	2090.6	2043.4	1995.8	1952.4	1904.9	1861.4	1818.0	1770.5	1735.0	1691.5
5°	2458.3	2371.2	2272.6	2177.8	2082.7	1984.1	1881.4	1790.4	1695.6	1608.5	1525.4
7.5°	2817.8	2647.9	2513.5	2343.6	2189.5	2035.4	1893.1	1747.0	1612.6	1486.1	1367.5
10°	3122.2	2916.7	2707.2	2490.0	2268.5	2063.0	1865.5	1691.5	1513.7	1359.6	1213.4
12.5°	3371.3	3110.4	2853.6	2580.7	2331.8	2071.0	1825.9	1616.4	1406.9	1233.1	1082.9
15°	3596.4	3296.2	2987.8	2671.7	2355.6	2059.2	1786.3	1525.4	1312.1	1114.6	944.6
17.5°	3778.3	3434.4	3086.6	2731.0	2391.1	2043.4	1735.0	1462.3	1213.4	1007.8	841.9
20°	3936.5	3576.7	3201.4	2802.0	2414.9	2039.3	1691.5	1383.4	1126.3	909.1	746.9
22.5°	4082.6	3722.9	3319.9	2893.0	2450.4	2035.4	1651.9	1324.1	1051.2	834.0	671.8
25°	4248.7	3869.3	3446.4	2987.8	2513.5	2051.3	1628.4	1276.6	984.0	762.7	612.5
27.5°	4434.5	4035.1	3596.4	3106.3	2596.6	2082.7	1620.5	1225.2	924.7	695.5	565.2
30°	4695.1	4232.9	3746.6	3224.9	2671.7	2118.5	1612.6	1193.5	865.4	644.2	517.7
32.5°	4924.6	4426.6	3912.7	3347.5	2754.7	2154.0	1608.5	1150.1	810.2	592.8	482.2
35°	5165.5	4604.4	4055.0	3466.1	2825.8	2193.4	1604.6	1118.4	758.9	541.4	446.6
37.5°	5375.0	4754.4	4165.7	3568.8	2905.0	2229.1	1608.5	1090.8	711.4	498.0	415.0
40°	5552.9	4908.7	4288.1	3663.6	2987.8	2284.3	1612.6	1063.2	664.1	458.4	387.4
42.5°	5711.0	5054.9	4418.6	3770.4	3082.8	2347.7	1636.3	1039.4	624.5	422.9	359.8
45°	5833.4	5189.3	4560.7	3920.6	3236.9	2450.4	1679.8	1023.6	584.9	391.2	336.0
47.5°	5959.9	5386.8	4801.9	4157.8	3462.2	2612.4	1754.9	1019.8	553.2	367.4	316.1
50°	6133.9	5584.6	5015.3	4398.7	3667.7	2778.5	1845.6	1023.6	513.8	343.9	296.4
52.5°	6260.4	5785.9	5292.0	4817.8	4157.8	3284.2	2197.4	1094.6	493.9	324.0	272.6
55°	7007.3	6924.2	6936.0	7015.2	6505.4	5588.4	3675.6	1580.9	581.0	367.4	268.8
57.5°	9880.6	10172.9	10342.8	10339.0	9497.0	7876.8	4936.3	2031.4	648.2	426.7	320.2
60°	13658.9	13437.6	13125.4	12354.5	11236.1	8991.4	5521.2	2185.7	561.1	339.8	292.6
62.5°	16998.5	15702.0	14551.9	13303.2	11836.8	9378.5	5639.8	2173.7	490.1	256.8	205.4
65°	19081.2	16749.4	14892.0	13326.7	11599.7	9054.5	5335.4	1995.8	415.0	209.5	169.9
67.5°	19579.2	16184.2	13556.2	11560.1	9690.7	7046.9	3916.6	1501.9	324.0	174.0	150.2
69°	18492.2	14386.1	11232.2	8967.6	7050.7	4675.4	2422.8	948.5	248.9	158.2	138.2
70°	17010.2	12512.6	9149.3	7196.9	5221.0	3284.2	1695.6	667.9	201.6	146.2	126.5
72.5°	10943.8	6572.4	4497.6	3130.1	2154.0	1308.2	664.1	300.5	154.1	122.4	102.7
75°	4244.6	2430.7	1762.8	1339.7	1047.4	727.2	403.2	193.7	130.3	102.7	79.0
77.5°	2090.6	1600.6	1308.2	897.1	521.8	324.0	217.4	150.2	106.8	75.1	51.4
80°	1651.9	1098.7	656.2	407.0	308.2	233.3	166.1	122.4	79.0	47.5	35.5
82.5°	845.8	462.5	339.8	276.7	229.2	181.9	134.4	86.9	51.4	31.7	27.6
85°	264.7	193.7	174.0	169.9	158.2	130.3	94.8	55.4	31.7	19.7	19.7
87.5°	19.7	27.6	35.5	27.6	31.7	27.6	35.5	23.8	15.8	15.8	11.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1	1822.1
2.5°	1659.8	1612.6	1569.1	1541.3	1489.9	1470.2	1450.6	1442.6	1406.9	1414.8	1383.4
5°	1450.6	1367.5	1304.2	1241.0	1181.8	1138.3	1102.6	1059.1	1023.6	1007.8	976.1
7.5°	1260.7	1154.2	1071.1	1003.9	932.6	877.4	829.9	798.2	766.8	735.1	719.3
10°	1094.6	980.2	885.4	818.2	751.0	703.4	667.9	644.2	624.5	612.5	608.6
12.5°	940.6	829.9	743.0	683.8	632.4	608.6	592.8	581.0	577.0	573.1	573.1
15°	822.0	711.4	644.2	600.7	577.0	565.2	561.1	553.2	545.5	541.4	541.4
17.5°	711.4	628.3	581.0	557.3	545.5	537.6	529.7	521.8	513.8	509.8	509.8
20°	636.2	569.0	545.5	529.7	517.7	509.8	498.0	490.1	486.2	482.2	478.3
22.5°	577.0	533.5	517.7	505.9	490.1	478.3	470.4	462.5	454.6	450.5	446.6
25°	533.5	505.9	493.9	478.3	462.5	450.5	438.7	426.7	419.0	415.0	407.0
27.5°	501.8	482.2	466.3	446.6	430.8	419.0	407.0	395.3	387.4	379.4	375.4
30°	474.2	454.6	434.6	419.0	399.1	387.4	371.5	359.8	355.7	347.8	339.8
32.5°	446.6	426.7	407.0	387.4	367.4	351.8	343.9	328.1	320.2	316.1	308.2
35°	415.0	395.3	371.5	355.7	336.0	320.2	308.2	296.4	288.5	280.6	276.7
37.5°	387.4	363.6	339.8	320.2	304.3	288.5	276.7	264.7	256.8	248.9	245.0
40°	355.7	331.9	308.2	288.5	272.6	260.9	248.9	237.1	229.2	225.4	225.4
42.5°	328.1	300.5	276.7	260.9	248.9	233.3	221.3	209.5	205.4	201.6	205.4
45°	300.5	272.6	253.0	237.1	225.4	209.5	197.5	189.6	185.8	189.6	193.7
47.5°	276.7	248.9	229.2	217.4	205.4	193.7	181.9	174.0	174.0	181.9	189.6
50°	253.0	225.4	209.5	201.6	189.6	177.8	162.0	158.2	162.0	169.9	177.8
52.5°	229.2	197.5	185.8	181.9	169.9	158.2	146.2	142.3	146.2	154.1	150.2
55°	205.4	174.0	169.9	166.1	154.1	138.2	126.5	126.5	126.5	122.4	114.7
57.5°	197.5	154.1	150.2	146.2	134.4	118.6	110.6	102.7	98.9	86.9	83.0
60°	205.4	138.2	138.2	130.3	118.6	102.7	91.0	79.0	71.0	63.1	63.1
62.5°	166.1	126.5	122.4	114.7	98.9	83.0	71.0	59.3	55.4	51.4	51.4
65°	134.4	114.7	106.8	94.8	83.0	67.2	55.4	47.5	43.4	43.4	47.5
67.5°	122.4	102.7	91.0	79.0	67.2	51.4	43.4	39.6	39.6	43.4	43.4
69°	114.7	94.8	83.0	71.0	59.3	47.5	39.6	39.6	39.6	39.6	43.4
70°	106.8	91.0	79.0	67.2	51.4	39.6	35.5	35.5	39.6	39.6	43.4
72.5°	83.0	71.0	67.2	55.4	39.6	35.5	31.7	35.5	35.5	39.6	39.6
75°	63.1	51.4	51.4	43.4	31.7	27.6	27.6	31.7	31.7	35.5	35.5
77.5°	43.4	35.5	35.5	31.7	27.6	23.8	23.8	27.6	31.7	31.7	35.5
80°	31.7	27.6	23.8	27.6	23.8	19.7	23.8	27.6	27.6	31.7	31.7
82.5°	23.8	23.8	23.8	23.8	19.7	19.7	23.8	23.8	27.6	31.7	31.7
85°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	23.8	23.8	27.6	27.6
87.5°	11.8	11.8	11.8	15.8	15.8	19.7	19.7	19.7	19.7	23.8	23.8
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):

	165°	170°	175°	180°
0°	1822.1	1822.1	1822.1	1822.1
2.5°	1375.4	1371.4	1355.5	1359.6
5°	964.3	940.6	956.4	952.6
7.5°	707.5	703.4	699.6	707.5
10°	604.8	604.8	600.7	604.8
12.5°	569.0	569.0	569.0	569.0
15°	541.4	541.4	537.6	537.6
17.5°	509.8	509.8	509.8	505.9
20°	478.3	474.2	474.2	474.2
22.5°	442.6	438.7	438.7	438.7
25°	407.0	403.2	403.2	403.2
27.5°	371.5	367.4	363.6	363.6
30°	336.0	331.9	328.1	328.1
32.5°	300.5	296.4	292.6	292.6
35°	268.8	268.8	264.7	260.9
37.5°	241.2	241.2	241.2	241.2
40°	221.3	225.4	225.4	225.4
42.5°	209.5	213.4	217.4	221.3
45°	201.6	209.5	213.4	213.4
47.5°	197.5	201.6	205.4	205.4
50°	181.9	177.8	177.8	177.8
52.5°	146.2	138.2	134.4	130.3
55°	106.8	102.7	94.8	94.8
57.5°	75.1	75.1	71.0	71.0
60°	59.3	59.3	55.4	59.3
62.5°	51.4	51.4	51.4	51.4
65°	47.5	47.5	47.5	47.5
67.5°	47.5	47.5	47.5	47.5
69°	43.4	43.4	43.4	43.4
70°	43.4	43.4	43.4	43.4
72.5°	39.6	39.6	39.6	39.6
75°	35.5	39.6	39.6	39.6
77.5°	35.5	35.5	35.5	35.5
80°	31.7	31.7	35.5	35.5
82.5°	31.7	31.7	31.7	31.7
85°	27.6	27.6	31.7	31.7
87.5°	23.8	23.8	27.6	27.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)