

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: P165323

Luminaire Tested: **VST-F10-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165323
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F10-LED-E-U-SL3-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (70) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14511.3 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 258.7
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

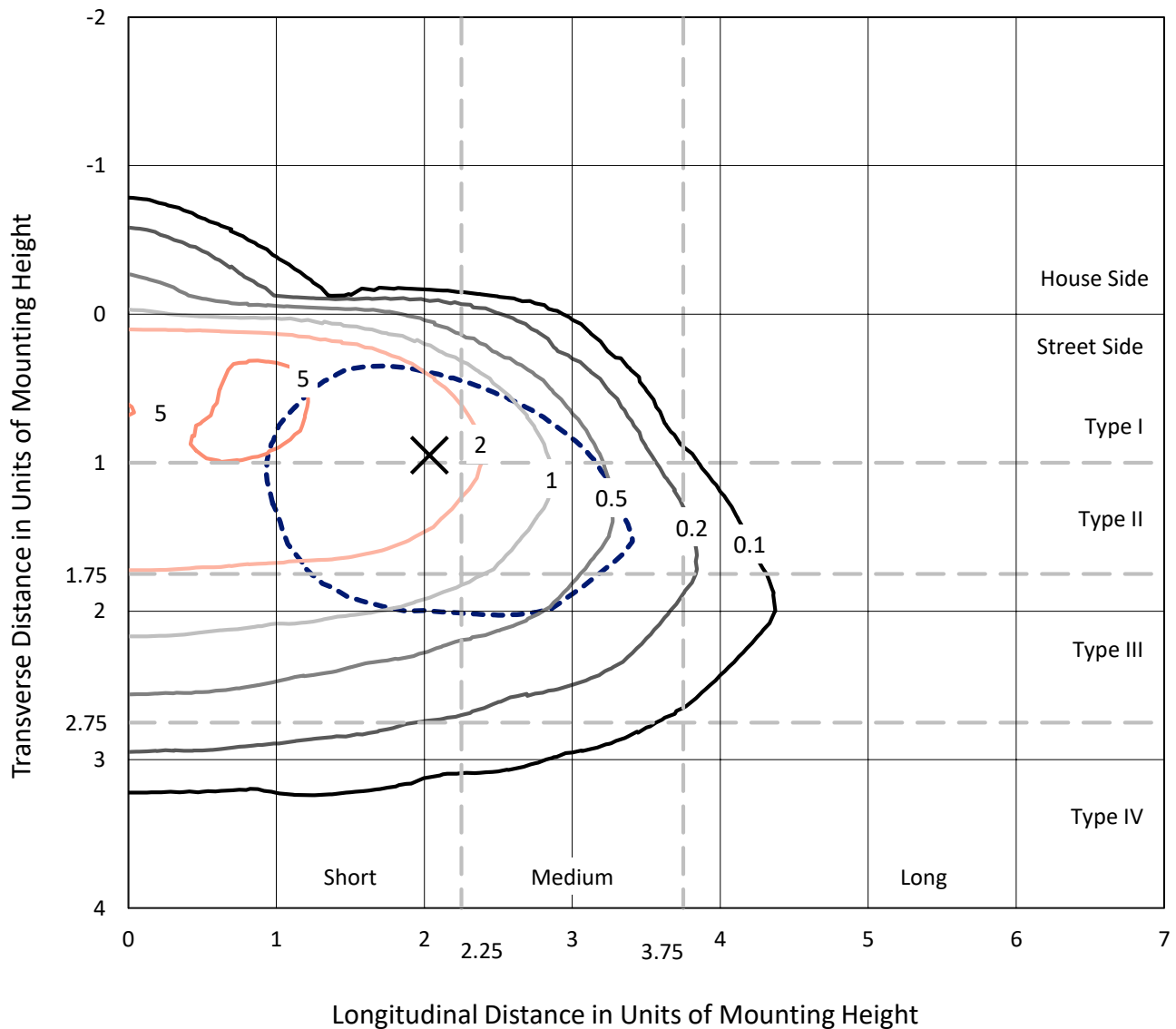


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

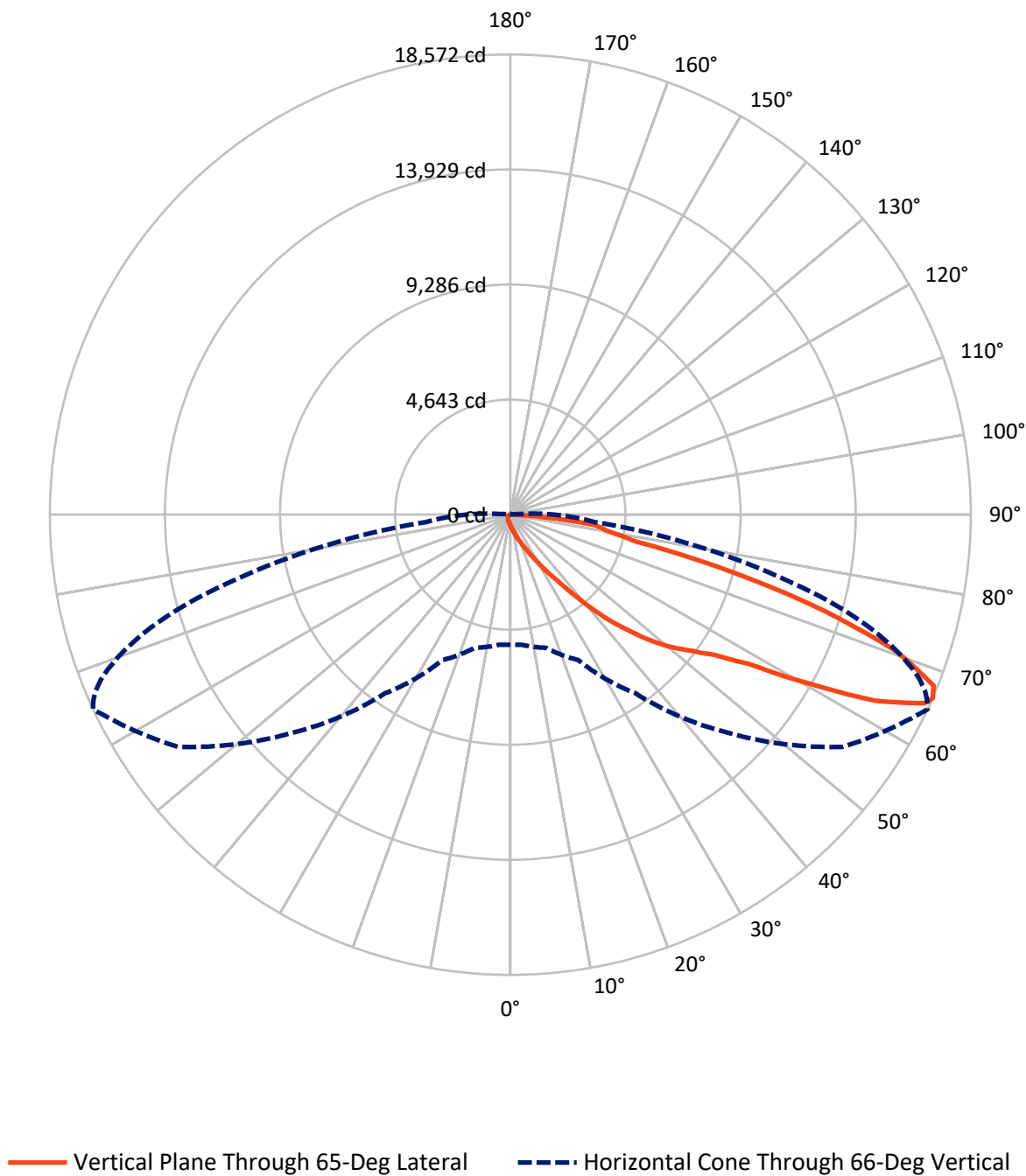


Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	314.5	0.0	314.5
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	14196.8	0.0	14196.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	14511.3	0.0	14511.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	0.3
10°-20°	207.9	1.4
20°-30°	448.4	3.1
30°-40°	957.6	6.6
40°-50°	2117.8	14.6
50°-60°	3588.9	24.7
60°-70°	4789.1	33.0
70°-80°	2109.5	14.5
80°-90°	243.0	1.7
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°	14511.3	100.0
0°-180°	14511.3	100.0

Coefficient of Utilization



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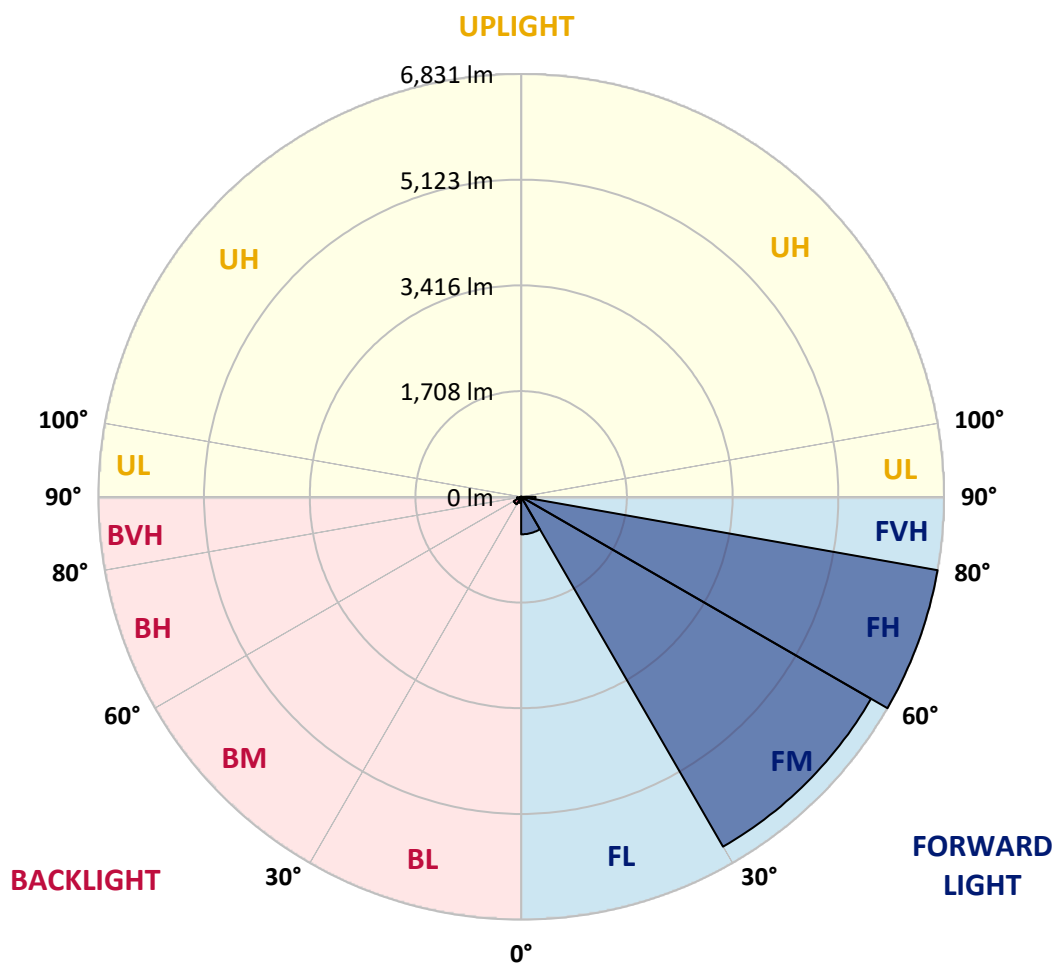
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.1	4.2			
FM	(30°-60°)	6526.2	45.0			
FH	(60°-80°)	6831.2	47.1			G3/7500
FVH	(80°-90°)	233.3	1.6			G3/500
BL	(0°-30°)	99.2	0.7	B0/110		
BM	(30°-60°)	138.1	1.0	B0/220		
BH	(60°-80°)	67.5	0.5	B0/110		G0/110
BVH	(80°-90°)	9.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9
2.5°	552.5	549.6	538.4	538.4	521.6	510.6	496.6	482.7	482.7	479.8	477.1
5°	730.9	714.3	711.4	680.7	655.6	619.4	585.8	541.3	535.7	530.1	527.2
7.5°	929.1	926.2	901.1	864.9	814.7	747.6	680.7	608.2	597.0	591.4	580.2
10°	1185.7	1171.7	1138.3	1076.8	1001.6	912.3	803.5	689.0	675.1	663.9	658.3
12.5°	1431.2	1406.1	1386.5	1308.4	1213.5	1082.4	951.3	786.8	775.6	761.7	739.3
15°	1659.9	1637.6	1604.2	1537.3	1431.2	1266.5	1113.2	912.3	884.3	864.9	848.1
17.5°	1838.5	1824.6	1785.5	1710.2	1595.7	1450.7	1266.5	1040.5	1018.4	993.1	962.4
20°	2008.8	1989.1	1927.8	1824.6	1701.8	1590.1	1448.0	1207.9	1177.3	1146.6	1113.2
22.5°	2170.5	2150.9	2050.6	1880.3	1749.2	1701.8	1651.6	1397.7	1350.2	1325.2	1291.6
25°	2396.5	2354.7	2198.3	1927.8	1752.1	1788.3	1874.7	1643.2	1598.6	1562.3	1509.3
27.5°	2700.6	2644.7	2399.3	1997.6	1763.1	1883.2	2131.4	1941.7	1894.2	1852.4	1793.9
30°	3043.7	3007.5	2714.5	2165.0	1844.1	2022.6	2418.7	2321.2	2265.4	2215.1	2145.5
32.5°	3389.7	3339.5	3049.3	2482.9	2061.6	2293.2	2778.7	2762.0	2689.5	2642.0	2566.6
35°	3693.8	3668.7	3453.9	3004.6	2558.3	2767.6	3258.5	3278.0	3214.0	3163.7	3080.0
37.5°	3900.3	3900.3	3858.4	3565.3	3347.8	3504.0	3964.3	3967.2	3903.0	3788.6	3746.8
40°	4006.2	4036.8	4187.6	4243.3	4232.2	4433.1	4890.7	4840.4	4787.3	4728.7	4589.3
42.5°	4223.9	4251.6	4572.5	4957.6	5208.7	5473.6	5788.9	5772.1	5708.1	5602.0	5473.6
45°	4592.2	4628.4	5010.6	5621.5	6137.6	6514.4	6715.1	6637.0	6572.8	6472.5	6405.4
47.5°	5060.8	5130.6	5562.9	6319.0	6941.1	7563.2	7772.4	7566.1	7510.3	7432.1	7323.3
50°	5560.2	5627.1	6087.4	6952.3	7655.4	8397.4	8746.2	8397.4	8316.6	8291.3	8168.7
52.5°	5992.6	6048.5	6492.0	7440.5	8202.1	9072.5	9580.3	9120.0	9061.3	8977.6	8888.4
55°	6249.2	6293.9	6709.5	7674.8	8573.3	9680.7	10386.7	9982.1	9895.5	9862.2	9733.7
57.5°	6335.8	6380.3	6754.2	7705.5	8774.0	10235.9	11365.9	11379.8	11276.6	11156.7	11117.5
60°	6335.8	6385.9	6701.2	7630.3	8969.3	10827.3	12671.4	13834.8	13611.7	13589.3	13447.0
62.5°	6073.5	6121.0	6439.0	7398.7	9231.6	11625.3	14490.4	16543.7	16479.7	16334.5	16100.2
65°	5504.3	5532.3	5844.7	6807.3	9131.1	12359.0	16066.7	18346.0	18242.8	17958.2	17657.0
66°	5247.6	5270.0	5562.9	6469.6	8802.0	12459.5	16345.7	18572.0	18401.9	18161.8	17821.5
67.5°	4876.6	4915.7	5122.1	5841.9	8012.5	12110.6	16170.0	18413.1	18265.2	17974.9	17634.6
70°	3255.8	3227.9	3956.0	4483.2	6104.2	9867.8	14507.2	16532.5	16535.4	16398.7	16262.0
72.5°	1545.6	1562.3	1774.3	2759.1	3995.0	6592.5	11547.2	13195.9	13385.7	13140.2	12969.9
75°	1110.3	1135.4	1263.8	1687.9	2382.5	3956.0	7485.1	9228.7	9234.3	8799.1	8411.5
77.5°	323.6	337.6	474.2	1040.5	1785.5	2669.8	4299.1	5130.6	5010.6	4698.1	4405.1
80°	133.8	133.8	139.4	332.1	717.0	1813.4	3007.5	3950.4	3936.5	3816.6	3643.6
82.5°	50.1	53.0	66.9	136.7	170.3	446.4	2005.9	3428.8	3420.3	3250.2	3127.4
85°	5.6	5.6	16.8	58.6	64.2	83.7	401.7	1512.0	1503.7	1512.0	1325.2
87.5°	0.0	0.0	2.7	5.6	8.3	11.2	16.8	58.6	64.2	61.3	55.7
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9
2.5°	477.1	471.5	471.5	468.8	468.8	468.8	465.9	463.2	463.2	460.3	457.6
5°	521.6	516.0	513.3	507.7	505.0	502.1	496.6	493.8	488.3	485.4	482.7
7.5°	574.7	563.5	560.8	552.5	544.0	538.4	532.8	524.5	518.9	507.7	505.0
10°	641.7	627.7	616.5	605.3	597.0	583.1	574.7	563.5	552.5	544.0	535.7
12.5°	728.1	708.7	691.9	680.7	661.2	644.5	627.7	619.4	597.0	585.8	571.9
15°	823.0	800.7	781.2	758.8	744.9	717.0	694.6	669.5	658.3	638.9	616.5
17.5°	945.7	909.4	878.8	856.6	828.6	800.7	775.6	750.5	717.0	694.6	666.8
20°	1076.8	1046.1	1004.3	965.3	931.8	898.4	862.0	828.6	797.9	761.7	728.1
22.5°	1244.4	1199.6	1149.5	1110.3	1065.8	1029.5	979.2	934.7	884.3	836.9	797.9
25°	1456.3	1397.7	1350.2	1294.5	1241.5	1185.7	1124.2	1068.5	1004.3	959.7	892.8
27.5°	1718.5	1662.8	1598.6	1526.1	1473.1	1389.4	1308.4	1238.8	1163.4	1093.6	1018.4
30°	2053.3	1972.5	1905.4	1835.8	1729.7	1648.7	1553.9	1459.2	1355.8	1286.2	1171.7
32.5°	2455.0	2368.6	2268.1	2167.7	2070.1	1955.7	1838.5	1721.3	1606.9	1478.7	1361.4
35°	2946.1	2842.8	2728.4	2619.7	2469.1	2346.2	2198.3	2036.5	1908.3	1760.4	1612.5
37.5°	3596.2	3425.9	3325.4	3211.1	3007.5	2840.1	2675.4	2513.6	2287.6	2131.4	1922.2
40°	4410.7	4310.3	4145.8	3961.6	3777.4	3557.0	3333.9	3119.1	2856.8	2639.1	2396.5
42.5°	5367.6	5219.8	5052.5	4787.3	4600.5	4340.9	4087.1	3802.5	3481.7	3202.8	2918.2
45°	6266.0	6090.3	5961.9	5696.9	5501.6	5194.6	4887.8	4586.6	4215.4	3855.5	3526.4
47.5°	7236.9	7091.7	6879.8	6665.0	6466.9	6121.0	5788.9	5423.5	5032.8	4606.1	4179.1
50°	8090.6	7976.2	7831.0	7571.7	7351.3	7061.1	6670.6	6271.6	5777.7	5353.7	4868.3
52.5°	8815.9	8726.6	8522.9	8338.8	8140.7	7867.3	7518.6	7136.4	6603.6	6137.6	5585.3
55°	9672.4	9608.2	9429.6	9315.3	9139.6	8877.4	8550.9	8196.6	7633.0	7125.3	6500.3
57.5°	11075.7	11025.5	10869.2	10821.7	10648.8	10420.0	10018.4	9638.9	8980.5	8350.0	7635.9
60°	13399.6	13299.3	13070.4	12953.3	12587.7	12280.9	11759.3	11237.5	10442.4	9638.9	8779.6
62.5°	15888.1	15606.4	15171.1	14797.4	14278.5	13745.5	13048.0	12250.2	11318.5	10364.3	9376.6
65°	17230.0	16750.2	16200.7	15606.4	14934.1	14150.1	13271.3	12314.4	11312.9	10305.7	9262.3
66°	17383.5	16842.2	16259.3	15598.1	14850.4	14016.2	13123.4	12119.1	11078.4	10096.5	9053.0
67.5°	17191.1	16624.7	16008.2	15274.5	14465.3	13600.5	12663.1	11619.7	10618.1	9622.1	8606.6
70°	15843.5	15279.9	14730.3	13957.6	13095.5	12225.2	11337.9	10171.9	9223.3	8308.1	7404.3
72.5°	12651.9	12269.7	11725.7	11064.5	10224.7	9203.6	8464.3	7421.1	6598.0	5710.8	5010.6
75°	7906.4	7368.0	6695.6	5853.1	5211.4	4382.8	3950.4	3158.1	2689.5	2279.3	1883.2
77.5°	4042.4	3638.0	3166.5	2692.2	2237.5	1785.5	1380.9	976.5	658.3	457.6	340.4
80°	3339.5	2982.4	2591.7	2159.4	1757.7	1364.3	982.1	669.5	426.9	279.0	217.5
82.5°	2759.1	2457.9	2109.0	1707.4	1358.7	1071.4	744.9	485.4	301.2	195.3	153.5
85°	1174.6	1065.8	823.0	652.8	491.0	362.7	254.0	170.3	119.9	97.6	89.3
87.5°	50.1	55.7	53.0	41.8	30.7	30.7	28.0	22.4	22.4	22.4	22.4
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9	437.9
2.5°	457.6	454.7	452.0	452.0	449.1	446.4	429.6	415.7	399.0	387.8	376.6
5°	477.1	474.2	468.8	465.9	460.3	457.6	421.3	390.5	365.4	345.9	332.1
7.5°	496.6	493.8	485.4	477.1	474.2	468.8	410.2	371.0	337.6	315.3	301.2
10°	521.6	513.3	505.0	493.8	485.4	477.1	399.0	348.7	312.4	292.9	279.0
12.5°	557.9	544.0	530.1	516.0	505.0	491.0	393.4	329.2	292.9	270.6	256.7
15°	599.9	580.2	563.5	546.9	527.2	513.3	382.2	312.4	276.1	254.0	237.2
17.5°	638.9	616.5	591.4	566.4	546.9	527.2	371.0	295.8	259.4	237.2	220.4
20°	694.6	661.2	630.6	599.9	571.9	546.9	354.2	279.0	245.5	220.4	203.6
22.5°	756.1	717.0	678.0	636.2	599.9	566.4	340.4	265.0	231.6	206.5	186.9
25°	834.2	786.8	733.7	680.7	638.9	594.3	326.5	251.1	217.5	192.5	173.0
27.5°	943.0	876.0	817.4	750.5	686.3	636.2	315.3	239.9	203.6	178.6	159.1
30°	1090.9	993.1	901.1	828.6	753.2	680.7	304.1	226.0	192.5	164.7	142.3
32.5°	1255.4	1141.0	1035.0	926.2	831.3	747.6	292.9	214.8	178.6	150.6	131.1
35°	1459.2	1314.0	1171.7	1046.1	931.8	820.1	281.7	203.6	167.4	136.7	117.2
37.5°	1752.1	1570.6	1383.8	1222.0	1074.1	926.2	273.4	192.5	153.5	122.8	103.2
40°	2153.8	1919.5	1690.6	1470.2	1277.7	1093.6	262.3	181.3	142.3	111.6	92.0
42.5°	2589.0	2304.4	2003.2	1754.8	1489.8	1258.2	251.1	170.3	131.1	100.5	81.0
45°	3130.3	2775.9	2410.4	2072.8	1749.2	1450.7	239.9	159.1	117.2	89.3	69.8
47.5°	3721.7	3269.7	2856.8	2432.8	2047.7	1690.6	226.0	150.6	106.1	78.1	61.3
50°	4329.9	3852.8	3331.0	2848.4	2391.0	1930.7	212.1	136.7	94.9	69.8	50.1
52.5°	4985.4	4421.9	3889.1	3289.2	2756.4	2245.8	198.0	125.5	86.4	61.3	41.8
55°	5819.6	5189.2	4564.2	3891.8	3250.2	2611.4	184.2	111.6	75.4	53.0	33.5
57.5°	6868.6	6121.0	5353.7	4594.9	3816.6	3091.1	173.0	97.6	64.2	44.6	28.0
60°	7859.0	6985.8	6056.8	5183.6	4304.7	3459.5	156.2	86.4	55.7	36.3	28.0
62.5°	8372.3	7376.3	6374.8	5412.3	4474.9	3590.6	139.4	72.5	47.4	30.7	25.1
65°	8246.8	7231.3	6260.4	5289.5	4371.8	3506.9	122.8	64.2	41.8	28.0	25.1
66°	8065.5	7061.1	6084.7	5161.2	4285.2	3417.6	114.4	61.3	39.1	28.0	22.4
67.5°	7669.3	6698.3	5766.6	4907.3	4048.0	3247.3	103.2	55.7	36.3	25.1	22.4
70°	6550.6	5669.0	4924.1	4159.6	3459.5	2736.9	83.7	47.4	30.7	22.4	22.4
72.5°	4335.3	3735.6	3239.0	2787.0	2329.5	1807.8	69.8	39.1	25.1	22.4	19.5
75°	1634.9	1478.7	1269.4	1141.0	996.0	873.2	55.7	25.1	19.5	19.5	19.5
77.5°	290.2	267.8	237.2	217.5	200.9	184.2	44.6	16.8	16.8	19.5	19.5
80°	195.3	181.3	164.7	150.6	139.4	125.5	30.7	13.9	16.8	16.8	19.5
82.5°	139.4	131.1	122.8	111.6	103.2	92.0	19.5	13.9	16.8	16.8	16.8
85°	83.7	78.1	72.5	66.9	58.6	55.7	13.9	13.9	13.9	16.8	16.8
87.5°	22.4	19.5	22.4	22.4	16.8	19.5	11.2	11.2	11.2	13.9	13.9
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):

	145°	155°	165°	175°	180°
0°	437.9	437.9	437.9	437.9	437.9
2.5°	371.0	371.0	365.4	373.9	373.9
5°	320.9	320.9	318.0	320.9	320.9
7.5°	292.9	290.2	290.2	290.2	292.9
10°	267.8	265.0	265.0	265.0	265.0
12.5°	245.5	242.8	239.9	242.8	242.8
15°	226.0	220.4	220.4	220.4	220.4
17.5°	209.2	203.6	200.9	200.9	200.9
20°	192.5	184.2	184.2	184.2	184.2
22.5°	175.7	167.4	167.4	167.4	167.4
25°	159.1	150.6	150.6	150.6	150.6
27.5°	145.0	136.7	136.7	136.7	136.7
30°	128.4	122.8	122.8	125.5	122.8
32.5°	117.2	108.8	108.8	111.6	111.6
35°	103.2	97.6	97.6	97.6	97.6
37.5°	89.3	83.7	83.7	83.7	83.7
40°	78.1	72.5	69.8	72.5	72.5
42.5°	66.9	61.3	58.6	58.6	58.6
45°	58.6	50.1	47.4	50.1	50.1
47.5°	47.4	41.8	41.8	44.6	44.6
50°	36.3	36.3	39.1	44.6	44.6
52.5°	33.5	33.5	39.1	44.6	44.6
55°	30.7	33.5	39.1	41.8	44.6
57.5°	28.0	33.5	39.1	41.8	41.8
60°	28.0	30.7	36.3	41.8	41.8
62.5°	25.1	28.0	33.5	39.1	39.1
65°	25.1	28.0	33.5	39.1	39.1
66°	25.1	28.0	33.5	39.1	39.1
67.5°	25.1	28.0	33.5	39.1	39.1
70°	25.1	28.0	33.5	36.3	36.3
72.5°	22.4	25.1	30.7	36.3	36.3
75°	22.4	25.1	30.7	36.3	36.3
77.5°	22.4	25.1	30.7	36.3	36.3
80°	22.4	25.1	30.7	33.5	36.3
82.5°	19.5	25.1	28.0	33.5	33.5
85°	19.5	22.4	28.0	30.7	33.5
87.5°	16.8	19.5	22.4	28.0	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)