

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: P158434

Luminaire Tested: **VST-F03-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158434
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F03-LED-E-U-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6824.1 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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

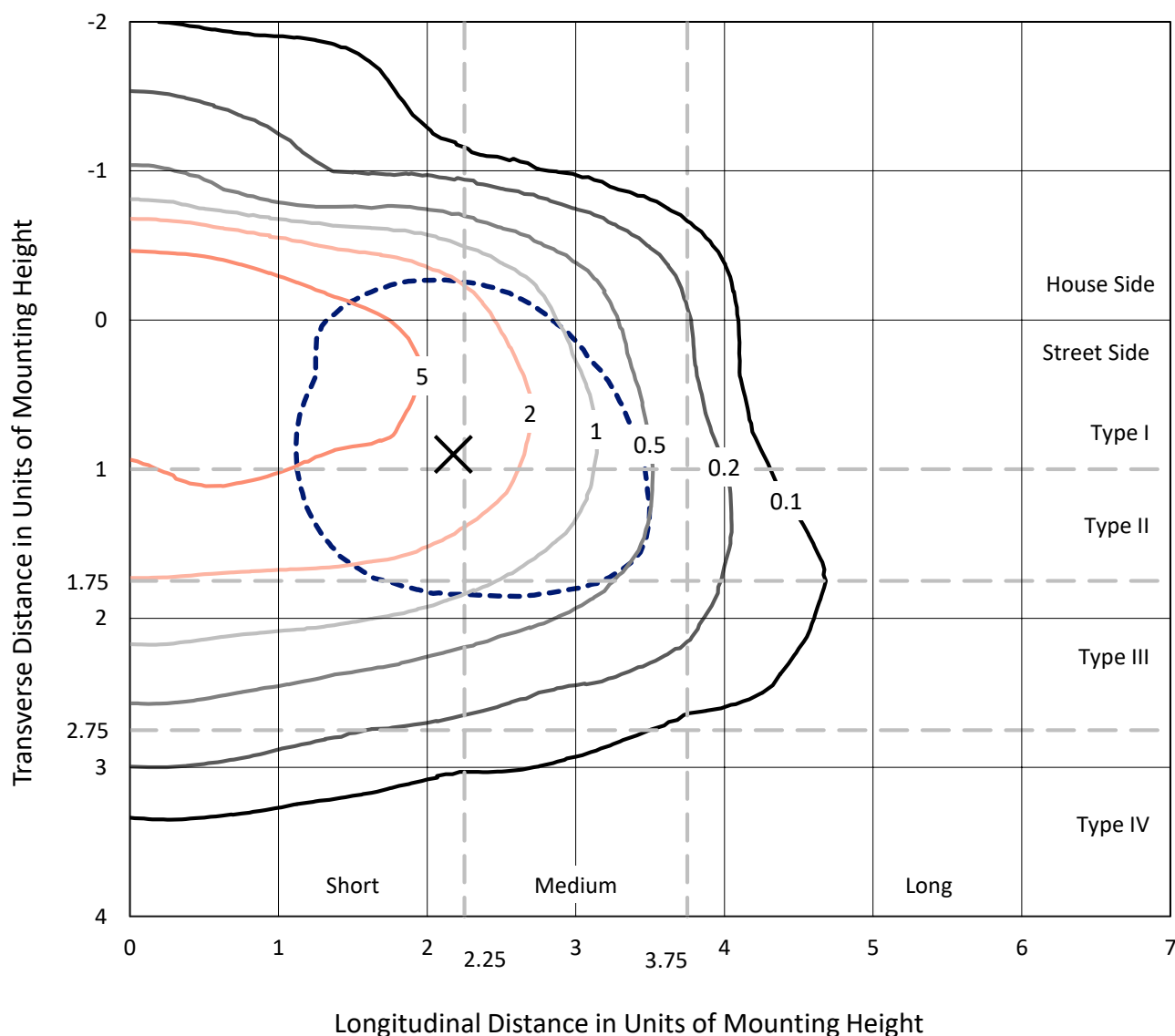


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

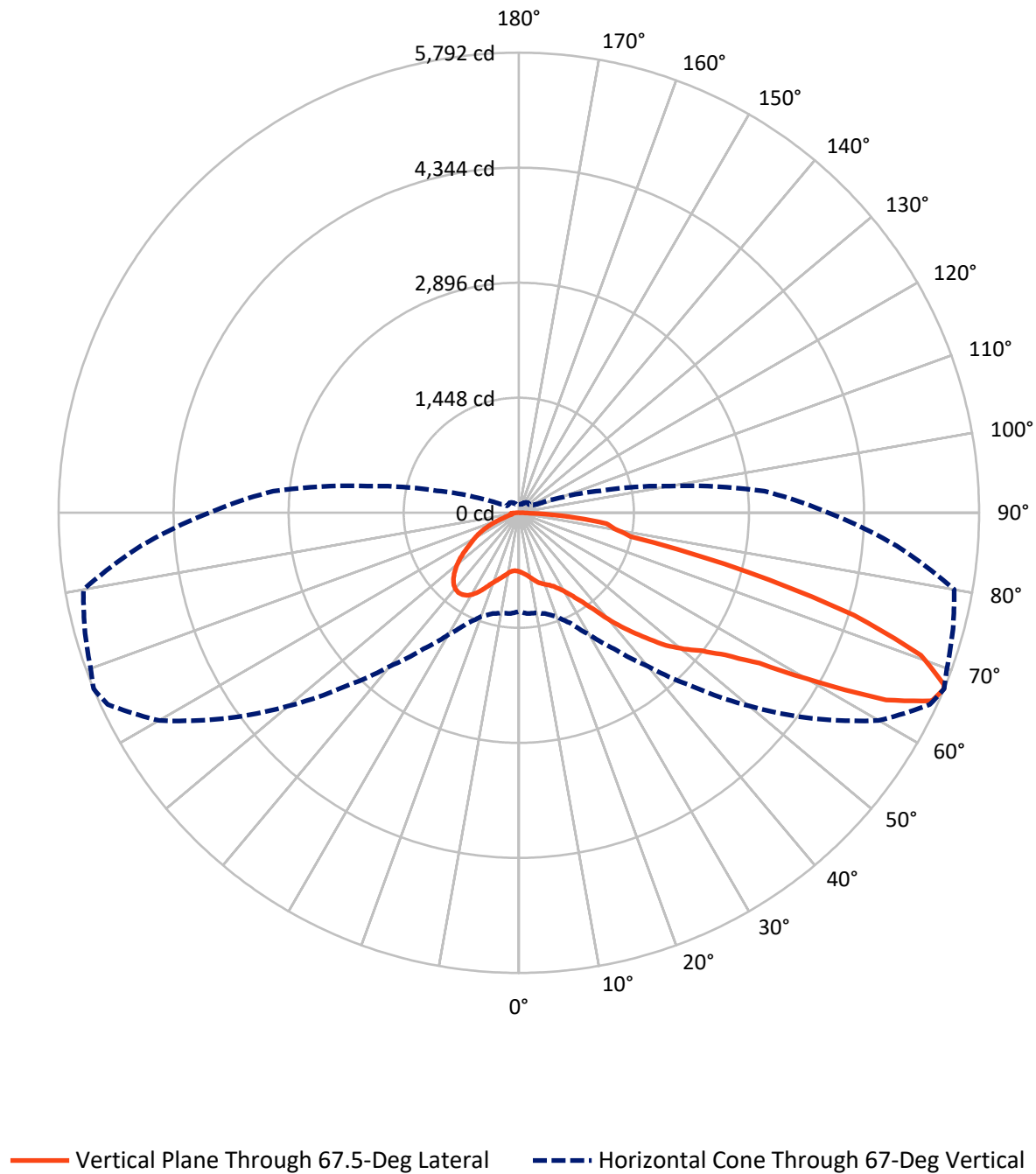


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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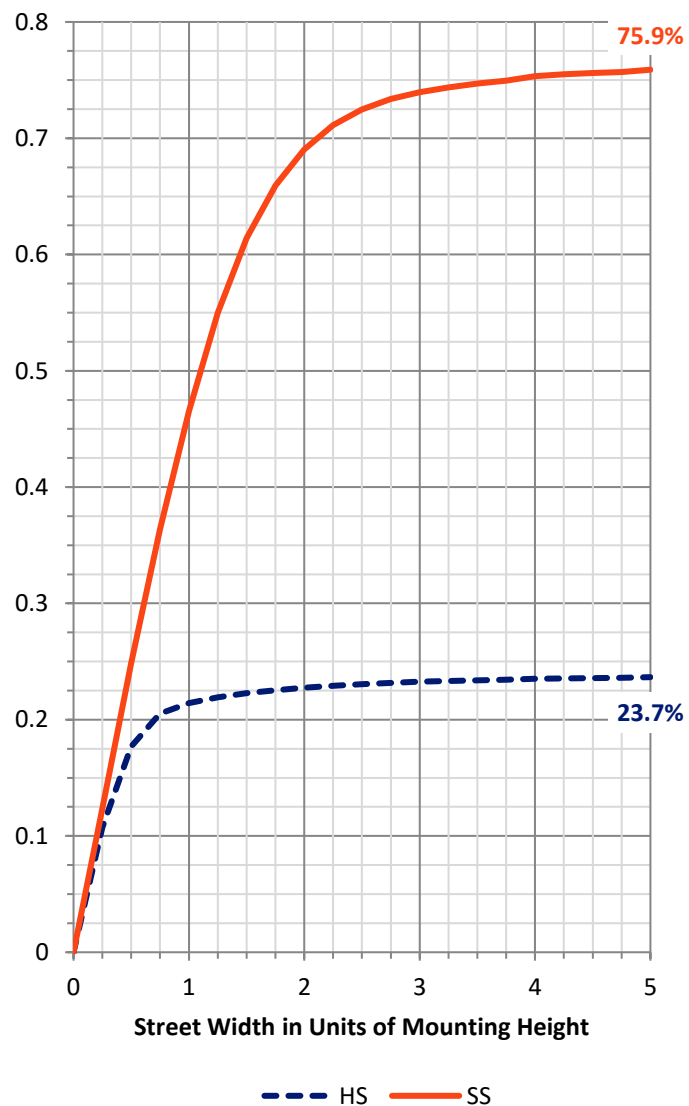
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1637.1	0.0	1637.1
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	5187.0	0.0	5187.0
	% Fixture	76.0	0.0	76.0
Total	Lumens	6824.1	0.0	6824.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.1
10°-20°	250.5	3.7
20°-30°	447.2	6.6
30°-40°	655.3	9.6
40°-50°	1012.6	14.8
50°-60°	1474.5	21.6
60°-70°	1920.8	28.1
70°-80°	859.8	12.6
80°-90°	130.0	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°	6824.1	100.0
0°-180°	6824.1	100.0

Coefficient of Utilization



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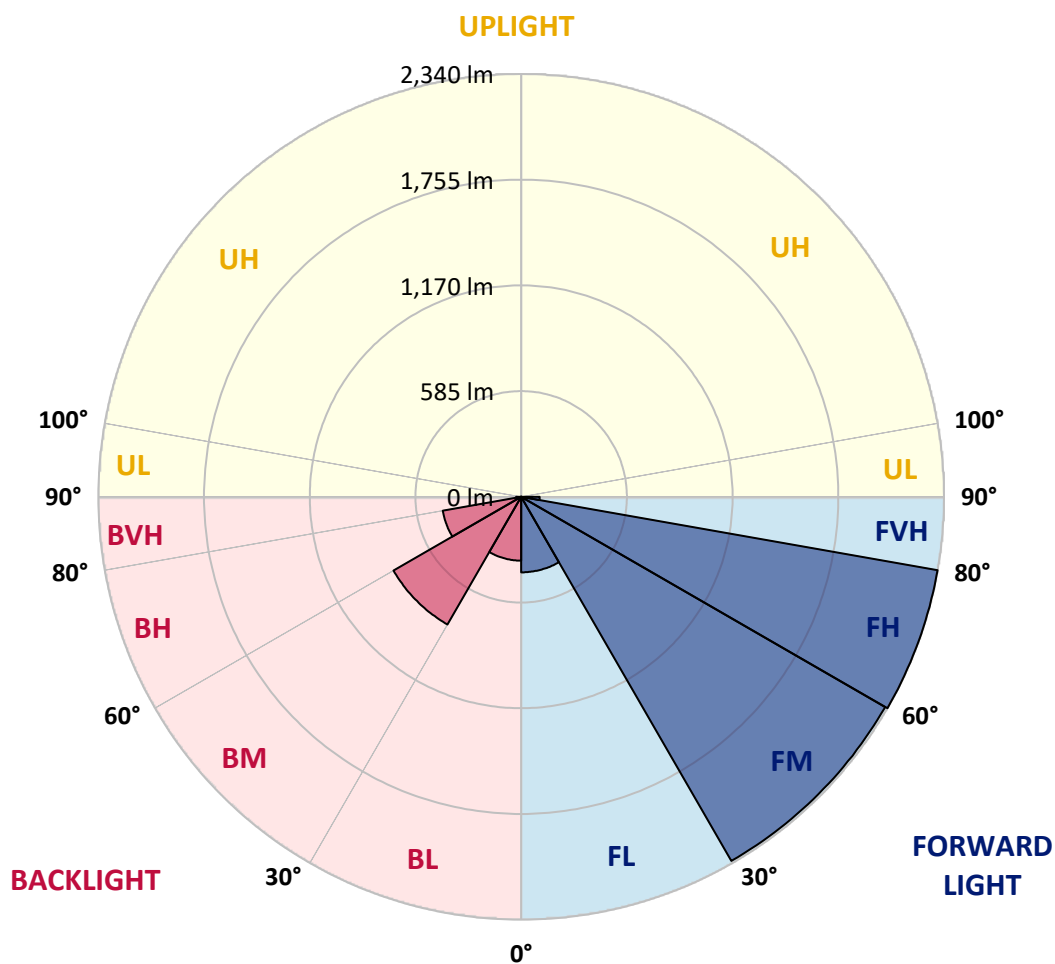
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.1	6.1			
FM	(30°-60°)	2326.7	34.1			
FH	(60°-80°)	2340.1	34.3			G2/5000
FVH	(80°-90°)	102.1	1.5			G2/225
BL	(0°-30°)	353.0	5.2	B1/500		
BM	(30°-60°)	815.7	12.0	B1/1000		
BH	(60°-80°)	440.4	6.5	B1/500		G1/500
BVH	(80°-90°)	27.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7
2.5°	768.6	770.5	770.9	770.5	770.9	769.1	768.6	765.9	767.3	763.6	762.7
5°	810.2	811.6	812.5	808.9	809.8	808.0	805.7	803.0	799.4	794.4	791.2
7.5°	851.0	853.2	852.8	851.4	848.2	846.4	841.9	837.8	831.5	825.6	821.6
10°	905.7	905.2	905.2	897.5	893.0	889.0	880.8	874.5	868.1	859.6	855.0
12.5°	969.1	965.9	964.5	959.1	949.6	942.4	930.6	918.4	907.1	898.0	890.8
15°	1030.1	1030.1	1026.5	1017.9	1008.8	999.4	982.6	965.0	946.4	931.9	924.7
17.5°	1085.8	1080.8	1077.6	1066.3	1056.8	1041.4	1022.9	1003.9	980.8	960.4	946.4
20°	1126.4	1122.4	1115.6	1101.6	1085.3	1067.2	1045.5	1023.3	998.5	976.3	960.4
22.5°	1150.0	1145.0	1134.6	1116.1	1093.9	1068.5	1043.2	1022.4	999.8	983.0	970.0
25°	1162.2	1157.2	1143.2	1118.8	1088.9	1055.5	1026.5	1006.1	993.0	988.9	987.1
27.5°	1161.8	1157.7	1142.8	1114.7	1076.3	1037.8	1006.6	989.4	988.0	1003.9	1015.6
30°	1150.0	1147.3	1133.7	1105.7	1065.4	1025.1	996.2	987.1	1001.2	1034.6	1063.6
32.5°	1138.2	1136.9	1127.4	1102.0	1067.6	1033.7	1013.8	1014.7	1043.7	1095.2	1141.9
35°	1139.6	1141.4	1140.1	1126.4	1104.8	1087.1	1077.6	1097.5	1142.8	1205.2	1267.6
37.5°	1151.3	1158.1	1166.7	1168.1	1168.6	1165.8	1185.7	1227.8	1293.8	1375.3	1473.0
40°	1177.1	1184.8	1209.7	1231.4	1259.5	1292.9	1333.2	1391.6	1473.5	1573.9	1693.8
42.5°	1257.2	1268.0	1298.8	1339.1	1390.7	1443.1	1503.3	1582.9	1683.4	1789.2	1915.0
45°	1361.7	1384.3	1418.3	1463.0	1540.4	1614.1	1691.9	1781.1	1887.8	2020.4	2147.1
47.5°	1492.0	1514.6	1564.0	1611.9	1703.3	1795.1	1880.2	1973.3	2089.1	2224.9	2365.1
50°	1606.0	1631.8	1675.7	1740.4	1846.2	1958.9	2053.0	2153.9	2251.1	2394.1	2535.7
52.5°	1695.6	1714.1	1756.2	1815.5	1933.6	2057.0	2176.0	2288.2	2403.6	2546.5	2677.7
55°	1706.9	1724.1	1765.3	1833.1	1953.0	2090.0	2227.1	2360.2	2523.5	2679.5	2853.2
57.5°	1658.0	1672.1	1713.7	1774.3	1891.0	2047.1	2220.4	2390.9	2599.9	2810.8	3022.9
60°	1588.8	1602.8	1635.4	1683.8	1789.2	1957.5	2159.8	2393.2	2671.0	2975.4	3287.6
62.5°	1512.8	1525.0	1551.2	1585.6	1678.4	1833.5	2065.2	2378.2	2728.9	3139.2	3620.5
65°	1384.8	1414.2	1425.5	1460.8	1553.5	1700.1	1935.8	2277.4	2705.3	3212.0	3829.6
67°	1243.2	1273.0	1278.9	1314.7	1388.9	1529.6	1769.3	2090.5	2518.9	3086.2	3783.4
67.5°	1198.0	1223.3	1232.3	1268.0	1338.2	1470.7	1698.3	2023.1	2461.9	3017.5	3727.7
70°	880.8	908.9	918.8	933.7	983.9	1094.3	1245.0	1526.8	1963.0	2462.4	3144.6
72.5°	471.4	494.0	503.5	525.7	551.5	611.6	727.0	929.2	1204.7	1647.6	2237.1
75°	319.0	328.0	334.8	350.2	376.9	424.8	475.4	546.5	713.0	929.7	1273.0
77.5°	181.9	185.9	186.8	189.5	210.8	256.5	339.7	460.1	589.9	673.6	814.3
80°	78.7	86.9	93.2	89.1	87.8	97.3	121.7	181.4	355.6	564.6	670.0
82.5°	42.5	46.1	51.6	52.0	54.7	57.9	62.9	74.6	104.9	211.7	461.9
85°	22.1	23.1	30.8	35.3	37.6	39.4	40.3	44.8	51.6	65.6	114.9
87.5°	3.2	4.5	5.4	7.3	8.2	8.6	10.0	12.7	14.9	18.1	30.8
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7
2.5°	758.6	757.7	755.0	753.2	751.4	749.6	747.4	745.6	742.4	740.1	737.4
5°	786.7	781.3	777.7	772.7	771.8	765.9	760.0	757.3	751.9	747.4	741.9
7.5°	815.2	808.9	803.0	799.0	796.7	788.5	782.6	775.9	769.5	763.6	757.3
10°	848.7	842.3	836.0	833.3	829.3	821.6	816.6	808.0	801.7	794.4	785.8
12.5°	883.5	879.0	874.5	870.8	869.0	865.4	858.2	851.0	842.3	835.1	825.2
15°	914.3	911.1	909.3	908.4	908.4	906.1	899.3	892.6	883.5	875.4	864.5
17.5°	936.0	934.7	936.0	937.4	939.2	937.4	936.0	928.3	922.4	912.5	901.6
20°	948.7	951.4	958.2	962.7	966.8	970.0	971.3	965.0	957.3	950.0	942.8
22.5°	962.2	970.0	981.7	988.5	995.3	1006.6	1009.3	1004.8	998.9	994.4	986.7
25°	984.8	996.2	1016.5	1027.4	1036.9	1053.7	1055.9	1056.8	1055.5	1051.8	1042.3
27.5°	1020.2	1042.3	1069.4	1083.5	1093.9	1115.6	1124.2	1124.2	1120.6	1124.6	1124.6
30°	1081.7	1111.1	1146.4	1154.5	1170.8	1189.8	1203.8	1205.6	1206.1	1214.7	1227.4
32.5°	1176.2	1204.3	1243.6	1252.7	1266.7	1284.8	1300.6	1298.8	1302.9	1321.4	1338.2
35°	1313.8	1342.3	1368.1	1380.2	1386.6	1402.9	1408.7	1418.7	1430.9	1454.0	1451.8
37.5°	1517.3	1542.7	1546.3	1554.0	1546.3	1549.4	1554.0	1565.8	1598.3	1619.1	1585.6
40°	1762.6	1804.6	1800.5	1791.5	1774.3	1751.2	1759.4	1777.4	1812.8	1794.7	1704.6
42.5°	1993.7	2037.1	2029.0	2018.6	1980.6	1972.0	1971.1	1986.0	2005.0	1953.4	1797.8
45°	2221.3	2265.6	2251.6	2245.7	2220.4	2201.8	2217.2	2218.1	2213.1	2102.8	1879.3
47.5°	2456.0	2496.8	2487.7	2492.7	2466.5	2454.2	2455.6	2449.3	2402.7	2229.4	1942.6
50°	2645.6	2700.4	2705.8	2694.5	2680.4	2661.9	2709.4	2692.2	2588.6	2352.5	2003.6
52.5°	2793.1	2866.9	2894.9	2887.6	2876.3	2878.6	2967.7	2987.2	2815.7	2507.6	2071.1
55°	2967.7	3084.0	3129.7	3156.8	3145.1	3190.3	3394.3	3404.3	3131.5	2710.3	2158.9
57.5°	3219.7	3386.2	3530.5	3569.0	3606.1	3753.1	4084.3	3983.3	3541.4	3017.0	2270.1
60°	3602.9	3967.5	4201.9	4324.9	4411.7	4617.2	4932.0	4676.4	4052.1	3382.1	2409.9
62.5°	4139.4	4672.3	5064.1	5187.6	5223.4	5341.4	5569.4	5080.4	4330.3	3545.9	2422.1
65°	4538.9	5178.1	5647.3	5710.6	5668.1	5670.4	5730.1	5059.1	4226.8	3402.9	2212.2
67°	4512.7	5228.3	5708.8	5792.0	5733.2	5655.8	5562.7	4771.0	3893.8	3103.4	1937.2
67.5°	4472.4	5179.9	5682.1	5769.8	5716.0	5627.8	5491.6	4659.2	3790.2	3010.3	1881.1
70°	3866.2	4568.8	5245.1	5368.6	5391.2	5310.7	4928.4	3928.6	3077.2	2448.8	1460.8
72.5°	3009.4	3635.0	4304.1	4411.3	4498.2	4266.1	3587.0	2713.5	2243.0	1764.8	1057.7
75°	1986.9	2623.4	2960.9	2976.8	2865.9	2436.2	1752.6	1359.0	1250.9	1037.3	654.6
77.5°	1063.1	1542.7	1552.2	1437.2	1384.8	1032.4	418.9	231.2	257.4	292.3	260.6
80°	793.1	982.6	1138.7	1224.2	1249.5	885.4	216.7	122.6	107.2	97.7	96.4
82.5°	715.3	949.1	1064.0	1110.7	1098.9	728.3	121.7	82.3	68.3	74.2	84.6
85°	280.5	506.7	666.4	645.1	542.0	271.4	66.5	44.3	44.3	64.3	83.2
87.5°	57.5	104.0	141.1	134.8	121.3	52.5	32.6	26.7	27.1	52.0	78.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7
2.5°	734.7	732.0	730.1	728.3	726.5	725.6	724.3	724.3	721.6	720.7	719.8
5°	737.9	733.3	730.1	726.1	722.9	720.2	716.6	715.7	712.5	710.3	709.4
7.5°	751.4	744.7	737.9	732.9	728.3	722.5	718.4	714.8	711.6	709.4	706.6
10°	777.2	770.0	760.5	751.4	745.6	736.5	730.1	723.8	720.2	717.5	713.9
12.5°	815.2	804.8	793.5	782.6	772.7	760.9	754.6	746.9	742.4	740.1	737.4
15°	854.1	842.8	828.8	818.4	807.1	798.0	792.1	785.3	781.7	779.0	777.2
17.5°	893.9	880.8	870.8	860.5	855.0	848.2	840.5	832.0	821.6	815.2	806.6
20°	934.7	924.7	918.8	913.0	906.6	897.1	881.7	864.1	844.6	826.1	808.4
22.5°	982.1	976.3	975.4	970.0	956.8	934.2	905.7	872.7	839.6	808.9	784.9
25°	1049.1	1049.1	1044.6	1022.4	991.7	950.9	903.0	855.5	811.6	769.5	737.9
27.5°	1133.3	1130.1	1107.9	1062.2	1007.0	943.7	879.5	819.3	763.2	717.1	676.3
30°	1226.0	1203.8	1156.3	1084.4	1001.6	920.2	841.4	771.8	705.7	649.2	601.3
32.5°	1322.3	1268.5	1183.0	1084.4	982.6	884.9	794.0	708.5	632.9	569.6	512.6
35°	1409.6	1311.5	1189.3	1066.7	945.5	832.9	727.4	630.7	540.2	471.8	409.4
37.5°	1488.8	1340.0	1182.5	1032.4	891.7	759.6	636.1	529.3	427.1	361.0	307.6
40°	1540.4	1345.9	1154.5	978.5	814.7	660.5	523.9	404.5	323.5	263.3	227.6
42.5°	1572.5	1334.6	1109.3	904.8	711.2	536.1	393.1	290.0	229.8	196.3	182.8
45°	1590.6	1305.2	1042.3	803.9	585.8	407.6	279.1	209.5	176.9	165.1	160.6
47.5°	1589.7	1257.7	958.6	687.2	447.4	284.1	197.7	163.3	154.3	150.7	149.8
50°	1580.2	1199.3	860.5	560.5	323.0	198.1	156.5	146.6	144.3	142.1	141.1
52.5°	1567.1	1126.9	751.9	437.0	229.4	158.3	142.1	139.3	137.5	135.2	134.3
55°	1542.7	1037.8	634.3	328.9	179.6	143.0	137.1	136.2	133.9	130.7	128.9
57.5°	1512.8	947.3	521.6	257.0	158.8	139.3	136.2	134.8	131.6	128.0	124.4
60°	1502.0	872.7	433.4	216.7	153.8	140.7	138.4	136.6	132.1	126.7	122.6
62.5°	1434.1	788.5	370.1	200.9	156.5	146.6	145.7	143.0	136.2	129.8	123.5
65°	1258.6	666.8	313.5	190.0	161.9	156.5	157.4	153.4	146.6	138.0	126.7
67°	1064.5	543.8	261.1	179.6	166.0	166.9	170.1	166.9	158.3	146.1	130.7
67.5°	1012.9	512.6	247.9	176.5	166.9	169.6	173.3	171.0	162.4	148.4	132.5
70°	752.8	361.0	185.0	159.7	166.9	177.8	185.9	188.2	178.7	159.2	136.2
72.5°	530.2	233.0	142.1	138.4	151.6	166.0	181.4	189.1	178.3	157.0	131.2
75°	318.5	145.7	115.4	117.6	127.6	142.5	154.7	157.9	144.3	130.7	113.6
77.5°	147.5	96.8	90.5	93.7	103.1	109.9	109.9	103.6	93.2	85.1	81.4
80°	86.9	79.1	78.7	84.6	91.0	86.0	78.2	69.7	64.3	61.5	60.2
82.5°	81.4	84.6	90.0	91.4	86.4	74.2	64.7	56.1	53.4	52.0	50.6
85°	95.9	102.7	93.7	86.4	76.4	62.5	50.6	43.4	42.1	40.7	38.9
87.5°	88.7	84.6	73.7	63.4	52.5	38.0	27.6	24.9	26.7	26.2	25.3
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):

	160°	165°	170°	175°	180°
0°	739.7	739.7	739.7	739.7	739.7
2.5°	720.2	720.2	718.4	717.5	719.8
5°	707.5	708.0	706.6	706.2	706.6
7.5°	704.8	704.4	703.5	702.6	703.5
10°	713.0	712.5	711.2	712.1	710.7
12.5°	737.4	740.1	739.7	740.6	742.4
15°	777.2	776.8	775.4	776.3	777.7
17.5°	799.9	796.2	793.1	791.7	791.7
20°	794.4	784.0	778.6	775.4	774.5
22.5°	762.3	747.4	736.0	733.3	731.1
25°	709.8	691.3	676.8	673.6	667.7
27.5°	648.7	623.9	606.7	603.1	599.9
30°	568.7	540.2	520.3	507.6	511.7
32.5°	470.9	443.8	420.7	400.4	397.2
35°	363.7	333.8	313.5	304.4	298.6
37.5°	271.4	246.5	233.0	224.4	224.8
40°	207.7	194.5	187.3	181.4	181.9
42.5°	173.3	167.4	165.6	162.8	161.5
45°	157.0	155.2	155.6	152.9	152.0
47.5°	148.0	146.6	147.0	145.2	144.8
50°	140.7	139.8	140.2	138.9	138.4
52.5°	133.4	133.9	133.4	132.5	132.5
55°	127.1	126.7	127.6	126.2	126.2
57.5°	122.2	121.7	121.7	121.3	121.3
60°	119.5	117.6	117.2	117.2	117.6
62.5°	118.1	114.9	114.5	114.5	114.9
65°	118.5	113.6	111.7	111.3	110.8
67°	119.0	111.7	108.1	106.3	105.8
67.5°	119.5	110.8	106.7	104.9	104.0
70°	116.7	104.5	98.6	95.5	94.6
72.5°	109.9	96.8	89.6	85.5	84.6
75°	97.7	87.8	81.4	76.9	75.1
77.5°	75.5	71.0	68.8	66.1	65.2
80°	58.8	56.5	55.6	53.8	53.4
82.5°	48.8	46.6	45.2	43.0	41.6
85°	38.0	35.3	34.4	32.6	31.7
87.5°	24.9	23.5	23.1	20.8	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)