

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: P159529

Luminaire Tested: **VST-E03-LED-E-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159529
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E03-LED-E-U-T3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8380.1 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 75.2
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



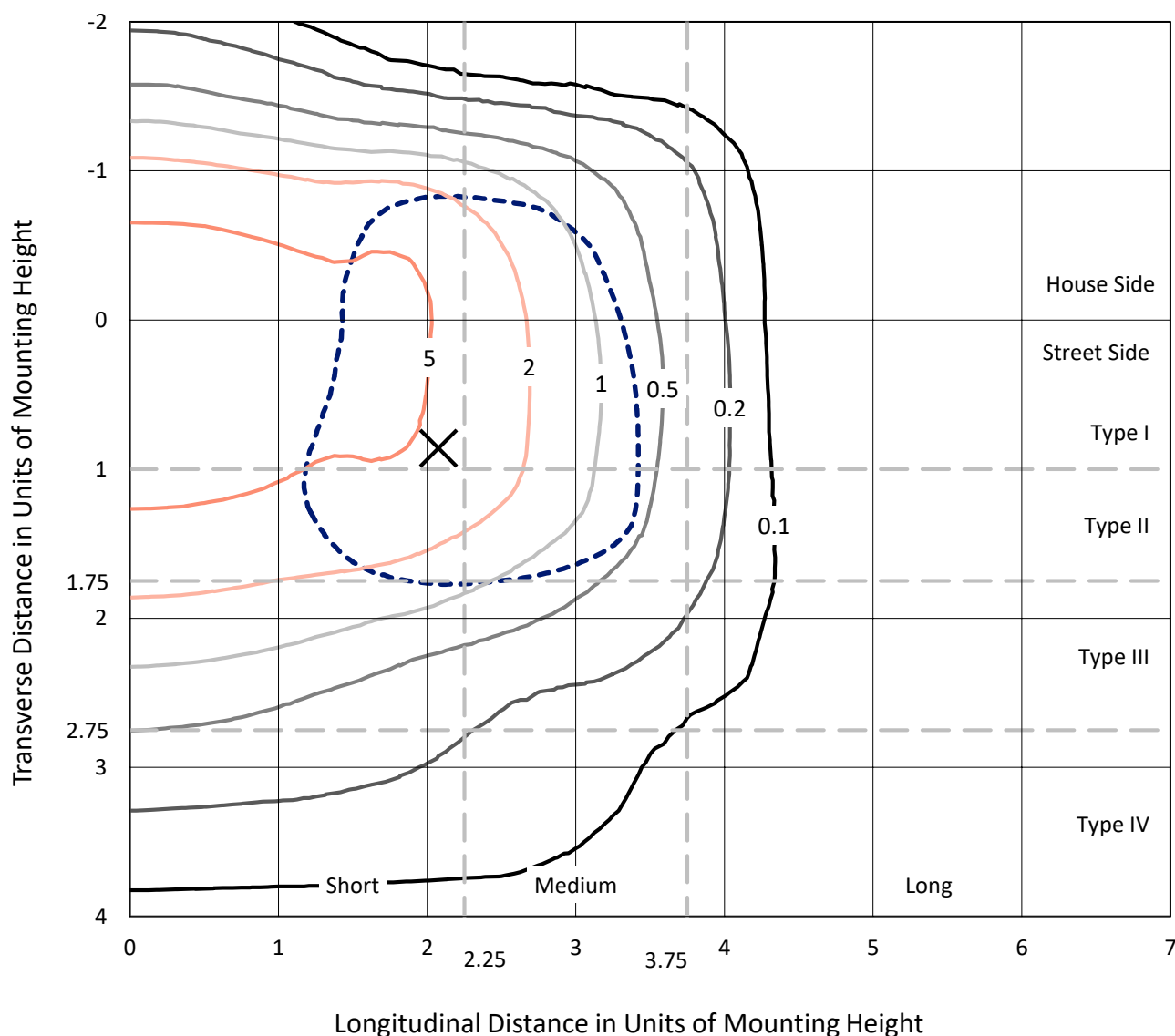
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

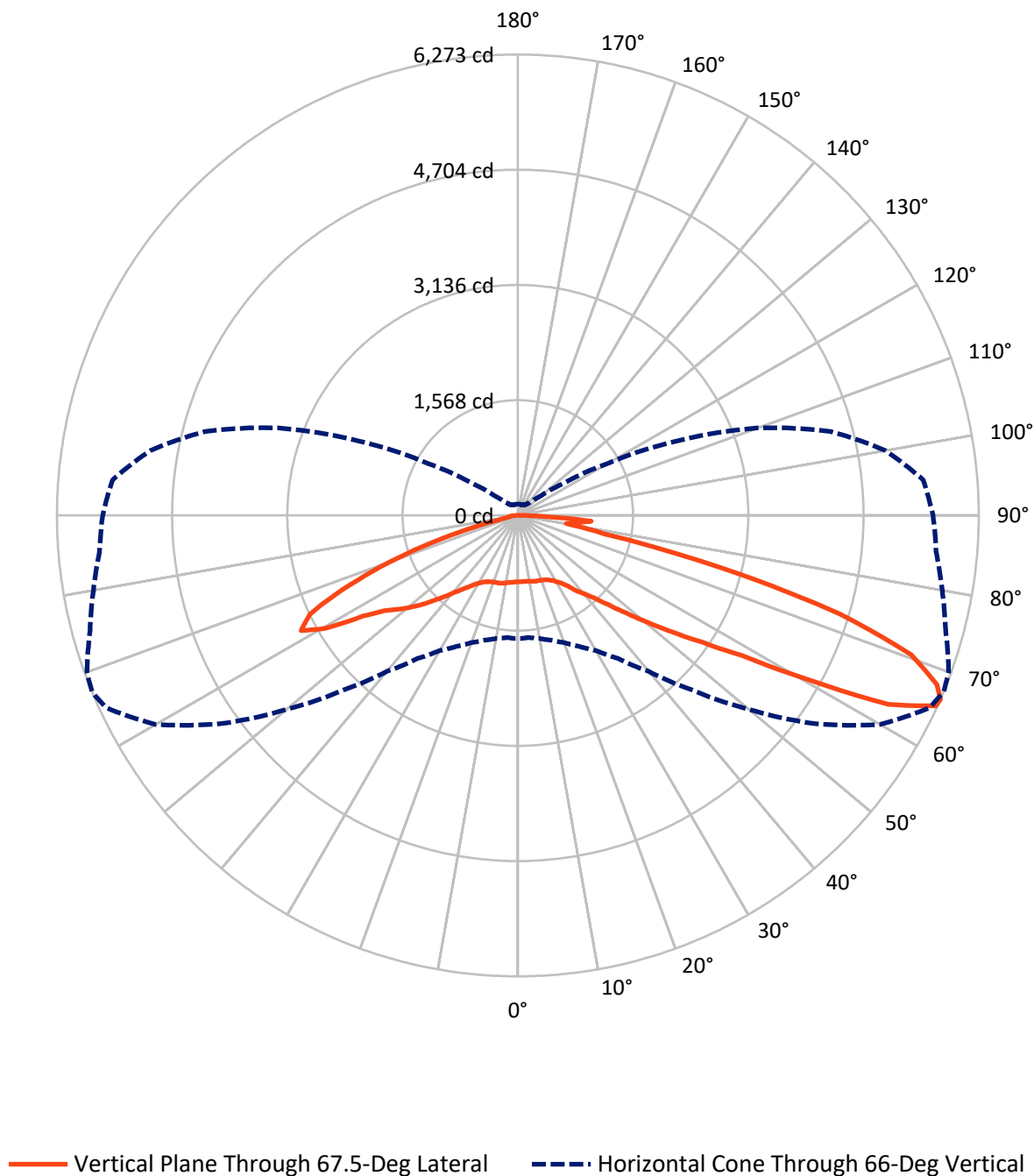


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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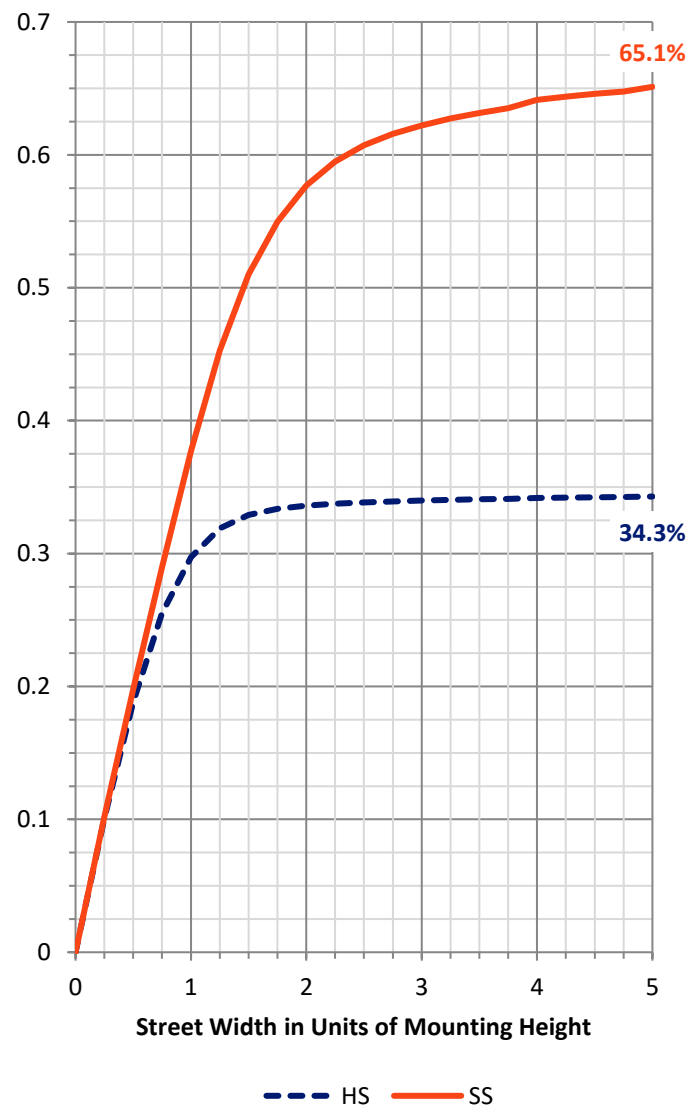
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.9	0.0	2899.9
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	5480.2	0.0	5480.2
	% Fixture	65.4	0.0	65.4
Total	Lumens	8380.1	0.0	8380.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.0
10°-20°	256.9	3.1
20°-30°	441.7	5.3
30°-40°	713.8	8.5
40°-50°	1183.0	14.1
50°-60°	1856.6	22.2
60°-70°	2538.3	30.3
70°-80°	1116.2	13.3
80°-90°	186.8	2.2
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°	8380.1	100.0
0°-180°	8380.1	100.0

Coefficient of Utilization



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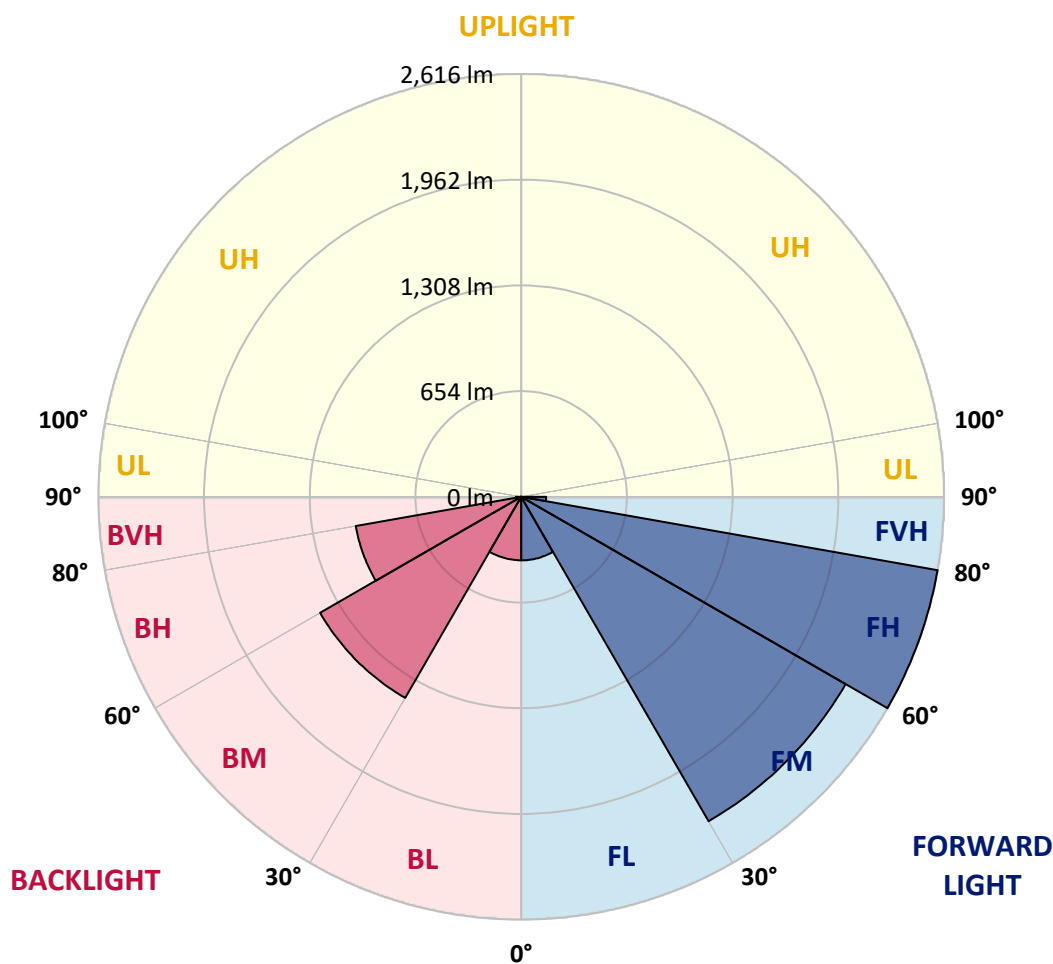
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	393.1	4.7			
FM	(30°-60°)	2317.3	27.7			
FH	(60°-80°)	2615.6	31.2			G2/5000
FVH	(80°-90°)	154.1	1.8			G2/225
BL	(0°-30°)	392.3	4.7	B1/500		
BM	(30°-60°)	1436.0	17.1	B2/2500		
BH	(60°-80°)	1038.9	12.4	B3/2500		G3/2500
BVH	(80°-90°)	32.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2
2.5°	902.6	902.6	903.1	902.6	902.6	902.0	904.2	904.2	904.2	903.7	905.3
5°	900.4	900.4	900.9	900.9	901.5	900.9	902.6	903.1	903.1	903.1	904.7
7.5°	894.9	896.5	895.4	896.0	896.5	898.2	900.4	901.5	902.6	904.2	904.7
10°	883.4	886.1	885.6	887.2	887.8	892.7	894.4	896.5	900.4	902.6	904.2
12.5°	867.5	869.2	869.7	871.9	874.1	880.1	884.5	888.3	893.8	899.3	904.7
15°	854.9	856.0	856.0	858.2	861.5	866.9	872.5	879.0	887.2	896.5	905.3
17.5°	858.7	861.5	859.3	858.7	859.8	863.1	868.0	873.5	883.4	893.8	904.2
20°	883.9	884.5	883.4	880.7	878.5	879.0	879.0	880.1	886.1	894.4	902.6
22.5°	904.7	907.0	906.4	907.0	906.4	908.6	907.5	905.3	903.1	903.7	907.5
25°	922.9	925.0	925.0	926.7	929.4	933.8	937.1	936.5	933.2	928.9	927.2
27.5°	952.4	952.4	952.4	954.1	957.9	963.4	968.9	972.2	974.9	970.5	961.2
30°	999.0	999.6	997.9	998.5	1001.2	1008.4	1014.9	1019.8	1025.3	1024.8	1012.7
32.5°	1050.0	1052.2	1051.6	1053.8	1057.7	1064.2	1071.4	1079.0	1086.2	1090.6	1082.9
35°	1115.8	1117.9	1118.5	1121.8	1126.1	1136.0	1145.9	1155.8	1163.4	1166.7	1165.1
37.5°	1223.7	1224.2	1222.1	1217.2	1218.8	1226.5	1238.0	1253.8	1258.8	1262.0	1269.7
40°	1385.3	1383.7	1375.0	1370.6	1367.8	1371.1	1368.9	1381.6	1393.0	1393.6	1393.0
42.5°	1581.5	1576.6	1568.4	1567.3	1566.2	1565.1	1559.1	1559.6	1570.0	1572.8	1569.5
45°	1776.7	1770.6	1764.6	1770.1	1763.5	1780.5	1785.4	1798.6	1800.2	1805.7	1797.5
47.5°	1936.7	1937.2	1937.2	1944.9	1958.0	1990.4	2019.4	2044.6	2053.9	2067.1	2068.7
50°	2057.8	2061.1	2071.5	2096.2	2124.1	2178.4	2227.1	2272.6	2313.7	2329.0	2369.6
52.5°	2128.5	2137.3	2159.2	2200.3	2250.1	2320.3	2397.0	2474.3	2545.5	2605.8	2654.0
55°	2115.8	2122.4	2160.8	2224.9	2302.7	2397.0	2504.4	2616.2	2727.4	2829.4	2908.3
57.5°	2034.8	2039.2	2077.5	2149.9	2246.8	2373.4	2525.2	2691.3	2847.5	3011.9	3146.7
60°	1928.5	1935.0	1970.6	2027.6	2129.0	2263.9	2439.7	2665.0	2914.3	3173.0	3425.0
62.5°	1860.5	1858.9	1890.1	1941.1	2017.2	2139.4	2308.7	2575.6	2920.9	3358.2	3856.3
65°	1747.6	1742.7	1775.0	1833.1	1915.9	2034.2	2194.8	2451.2	2851.9	3428.3	4134.7
66°	1677.5	1667.6	1699.9	1758.5	1841.3	1967.3	2121.4	2374.5	2768.0	3359.9	4105.1
67.5°	1554.7	1549.8	1565.1	1611.1	1672.5	1790.9	1951.4	2206.3	2569.6	3153.8	3888.1
70°	1263.7	1252.7	1264.8	1285.6	1309.2	1338.2	1436.9	1639.1	1946.5	2512.6	3132.4
72.5°	860.9	855.4	877.9	909.7	972.7	1002.3	1041.2	1074.1	1182.6	1583.8	2184.9
75°	654.9	658.1	686.6	739.3	820.4	908.0	993.5	1024.8	988.6	957.4	1240.1
77.5°	367.1	386.3	420.9	487.7	573.8	697.6	846.7	1011.1	1093.3	1073.0	1003.4
80°	151.3	148.5	165.5	202.2	231.8	333.2	509.6	715.7	947.0	1093.3	1070.3
82.5°	42.2	43.3	55.9	71.8	92.6	117.8	184.1	295.9	482.2	750.2	982.0
85°	13.1	13.1	18.1	26.9	31.8	36.7	46.6	76.7	131.0	261.4	529.9
87.5°	2.8	2.8	3.8	7.7	8.2	8.2	10.4	14.2	12.6	11.5	51.5
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2
2.5°	903.7	902.6	903.1	903.7	903.1	903.1	902.6	902.0	902.6	902.6	904.2
5°	903.1	902.6	903.1	903.1	903.1	903.7	903.7	903.7	905.3	905.3	908.0
7.5°	904.2	904.2	905.3	905.3	905.3	905.3	905.9	907.0	909.7	909.1	914.1
10°	906.4	907.5	910.3	910.8	910.8	912.4	913.6	915.7	918.5	919.6	923.9
12.5°	909.1	914.6	919.6	920.6	922.3	925.0	926.7	927.8	932.7	934.4	939.8
15°	912.4	920.1	926.2	928.3	930.5	933.8	936.0	937.6	942.0	944.2	950.8
17.5°	913.0	921.8	928.9	932.2	934.9	938.8	942.0	945.3	950.2	953.5	960.1
20°	912.4	923.9	934.9	939.3	942.0	949.1	954.1	958.4	964.5	967.8	974.3
22.5°	918.5	931.6	946.4	951.9	956.3	966.1	972.7	979.9	987.5	989.7	994.6
25°	932.7	946.4	965.0	972.7	980.4	993.5	1002.8	1013.3	1021.0	1022.0	1023.7
27.5°	956.8	969.4	991.9	1003.4	1016.0	1034.6	1048.3	1058.8	1069.7	1069.7	1068.6
30°	1005.6	1008.4	1031.9	1046.7	1065.4	1092.7	1113.0	1124.5	1132.7	1132.7	1123.4
32.5°	1068.6	1065.4	1086.7	1102.6	1128.4	1166.7	1194.1	1202.9	1211.6	1208.9	1193.0
35°	1159.6	1150.3	1162.3	1186.4	1215.5	1268.1	1296.6	1316.3	1321.8	1314.1	1288.9
37.5°	1274.1	1273.0	1279.1	1305.9	1338.2	1406.2	1435.3	1447.9	1443.5	1429.7	1385.3
40°	1395.2	1391.9	1388.1	1406.2	1442.3	1524.0	1575.5	1582.1	1576.1	1555.8	1499.9
42.5°	1556.9	1556.9	1538.8	1543.7	1573.9	1665.4	1726.3	1747.1	1747.6	1718.0	1643.5
45°	1779.4	1777.2	1745.4	1737.7	1760.8	1850.6	1929.0	1940.5	1940.5	1901.6	1819.9
47.5°	2046.8	2044.1	2012.8	1986.0	1990.4	2087.4	2152.6	2170.1	2154.8	2125.7	2028.7
50°	2348.2	2343.3	2311.5	2286.3	2275.3	2373.4	2428.8	2437.0	2414.5	2380.0	2274.8
52.5°	2654.0	2668.8	2650.2	2636.5	2640.3	2703.9	2760.9	2722.0	2710.4	2673.2	2567.4
55°	2972.4	3017.9	3059.0	3046.9	3061.2	3123.1	3134.1	3082.6	3061.7	3034.9	2917.1
57.5°	3293.0	3425.6	3560.4	3598.3	3633.3	3722.1	3709.5	3625.1	3641.0	3681.0	3548.3
60°	3740.7	4123.8	4465.7	4528.7	4637.8	4713.4	4730.4	4714.0	4787.9	4767.1	4649.9
62.5°	4428.5	5066.9	5542.6	5660.9	5770.6	5766.7	5709.2	5650.0	5722.9	5722.9	5416.6
65°	4919.5	5644.0	6153.1	6251.2	6246.8	6114.7	5978.8	5860.4	5850.0	5768.9	5321.2
66°	4942.5	5688.4	6187.0	6272.5	6239.6	6027.0	5864.3	5714.1	5650.0	5537.1	5078.4
67.5°	4735.4	5562.8	6076.3	6150.8	6064.3	5759.6	5535.5	5334.4	5241.2	5051.0	4619.2
70°	3884.3	4780.9	5527.8	5680.1	5582.0	5196.2	4889.3	4617.5	4439.5	4164.9	3853.6
72.5°	2835.4	3529.7	4338.6	4586.3	4571.0	4215.8	3968.7	3719.9	3485.9	3236.0	3008.6
75°	1843.0	2296.1	2747.2	2891.8	2822.3	2616.7	2439.7	2294.5	2072.6	1898.9	1856.6
77.5°	1052.2	1285.6	1216.0	1198.0	1110.8	896.5	596.2	418.1	377.6	471.3	516.8
80°	1001.2	907.5	743.1	670.2	616.0	419.8	220.3	155.1	135.9	139.2	149.6
82.5°	1128.9	1176.6	962.3	803.9	699.8	510.7	278.9	129.9	94.8	112.3	126.1
85°	846.1	1191.4	1181.0	1000.7	820.9	588.5	329.9	99.2	57.0	78.9	103.0
87.5°	171.5	282.2	271.8	238.9	203.3	142.0	55.3	31.3	28.5	38.9	59.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2	904.2
2.5°	905.3	905.3	906.4	908.0	908.6	908.6	909.7	908.6	910.8	911.3	911.9
5°	910.3	911.9	913.0	915.7	917.3	918.5	920.1	919.0	921.2	921.8	922.9
7.5°	915.7	918.5	920.6	921.8	923.9	923.9	924.5	923.4	922.9	921.2	920.6
10°	925.6	927.2	930.0	928.9	927.8	923.9	920.6	915.7	913.0	908.0	905.3
12.5°	941.5	942.6	942.6	937.6	930.5	921.8	913.6	905.3	898.7	893.3	890.0
15°	952.4	954.7	951.9	944.8	934.4	922.3	911.3	900.4	891.6	884.5	880.1
17.5°	960.7	960.1	955.2	945.3	935.5	925.0	915.2	903.7	892.7	882.3	875.7
20°	973.3	967.8	959.0	948.6	938.2	929.4	921.8	910.8	899.3	885.1	875.2
22.5°	990.2	980.4	967.8	956.8	947.0	938.8	930.0	920.6	908.6	892.7	879.0
25°	1014.4	997.4	983.2	972.2	963.4	954.1	944.2	932.2	920.1	903.7	887.2
27.5°	1051.1	1025.9	1007.8	997.9	989.7	977.1	964.5	950.2	934.9	917.9	899.3
30°	1095.5	1065.4	1044.5	1035.7	1025.9	1011.6	997.9	978.2	956.8	936.5	913.6
32.5°	1147.6	1116.8	1096.0	1089.4	1073.6	1057.1	1037.9	1011.6	983.7	953.5	926.2
35°	1226.5	1187.5	1168.4	1153.0	1131.1	1111.4	1079.0	1044.5	1004.5	964.5	930.5
37.5°	1307.6	1268.1	1248.4	1227.0	1198.5	1162.3	1119.1	1069.7	1016.6	967.3	925.6
40°	1416.1	1373.3	1348.1	1315.2	1269.2	1212.7	1148.6	1081.2	1016.6	955.2	904.7
42.5°	1542.7	1503.2	1464.3	1410.1	1336.0	1253.8	1164.0	1077.4	999.0	928.3	875.2
45°	1718.0	1650.6	1588.7	1501.6	1393.6	1277.9	1165.6	1059.3	968.9	890.5	831.4
47.5°	1915.3	1828.1	1718.6	1582.1	1434.7	1287.3	1149.7	1025.3	921.2	836.3	771.6
50°	2142.7	2009.0	1840.7	1646.2	1455.5	1274.7	1111.9	968.3	855.4	757.9	688.9
52.5°	2403.0	2199.2	1951.4	1691.7	1452.2	1236.3	1049.5	893.3	767.2	663.7	595.7
55°	2691.8	2406.3	2057.2	1720.7	1422.7	1161.8	951.4	787.5	657.6	555.7	496.0
57.5°	3200.9	2769.7	2258.9	1759.7	1360.7	1048.9	826.9	653.8	536.5	449.9	392.9
60°	4146.8	3404.8	2640.8	1851.2	1267.6	907.5	670.2	512.9	414.8	351.8	309.6
62.5°	4732.1	3851.9	2827.2	1838.0	1116.3	714.1	497.6	380.3	303.1	261.4	235.1
65°	4593.4	3676.6	2599.7	1578.8	868.6	506.3	329.3	248.8	208.3	186.9	174.2
66°	4404.9	3480.4	2407.4	1413.8	756.8	423.1	271.8	208.8	179.2	163.3	156.7
67.5°	4009.8	3122.0	2076.4	1132.2	567.2	315.1	200.6	163.9	145.8	137.6	133.1
70°	3356.0	2515.4	1468.7	668.6	307.4	171.0	128.2	114.0	109.6	106.9	105.2
72.5°	2594.8	1821.1	858.2	328.8	155.1	110.7	97.6	91.5	89.9	89.9	90.4
75°	1634.7	1046.7	384.2	158.4	105.2	89.3	83.3	80.6	81.1	81.7	81.1
77.5°	543.1	361.1	160.0	112.3	91.5	81.1	76.2	75.1	76.2	76.7	76.7
80°	156.2	136.4	115.6	99.2	83.8	75.6	71.2	70.7	73.4	74.0	72.9
82.5°	120.0	112.3	104.6	95.9	80.6	71.2	69.6	70.1	71.8	70.7	65.8
85°	110.2	109.1	78.4	77.8	70.1	68.0	66.3	66.8	65.2	59.2	53.7
87.5°	61.9	57.5	44.4	44.9	52.1	53.7	44.4	47.1	43.9	38.3	35.1
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):

	160°	165°	170°	175°	180°
0°	904.2	904.2	904.2	904.2	904.2
2.5°	913.0	912.4	912.4	914.1	911.9
5°	923.4	922.9	922.9	924.5	922.9
7.5°	918.5	916.8	915.7	915.2	915.2
10°	902.0	900.4	897.1	896.0	894.9
12.5°	885.1	883.4	879.5	879.5	878.5
15°	874.6	872.5	869.7	868.0	866.9
17.5°	869.2	865.9	862.6	860.9	859.8
20°	866.9	862.6	858.7	856.0	856.0
22.5°	867.5	862.0	857.6	854.3	853.3
25°	873.0	864.8	859.3	856.0	854.9
27.5°	880.7	870.8	863.6	859.3	857.6
30°	891.1	877.4	867.5	862.0	859.8
32.5°	898.2	879.0	866.4	858.7	856.0
35°	897.7	873.0	857.6	847.8	844.5
37.5°	887.8	858.7	838.4	826.4	820.9
40°	865.9	832.4	811.1	799.6	793.0
42.5°	834.1	797.9	778.7	766.1	759.0
45°	784.2	748.6	725.0	715.1	705.8
47.5°	715.1	679.0	658.7	644.5	638.5
50°	634.0	597.9	576.5	565.0	559.5
52.5°	545.3	510.7	495.4	484.4	476.8
55°	453.2	421.4	414.8	402.8	395.6
57.5°	366.6	348.0	341.9	329.9	323.9
60°	286.6	280.6	274.0	266.3	263.0
62.5°	221.9	216.5	214.8	209.9	209.3
65°	169.3	169.9	168.8	167.7	166.6
66°	154.0	153.4	154.0	152.9	152.3
67.5°	131.0	133.1	134.8	134.3	134.3
70°	106.3	107.9	110.2	109.6	109.6
72.5°	91.0	93.7	94.8	94.3	94.3
75°	82.2	85.0	85.0	83.8	83.3
77.5°	76.7	77.8	76.7	75.6	74.5
80°	71.2	70.1	68.5	66.8	65.8
82.5°	61.9	59.2	57.5	54.8	54.8
85°	49.9	47.7	43.9	41.1	38.3
87.5°	32.3	31.3	28.5	21.4	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)