

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: P158429

Luminaire Tested: **VST-E03-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158429
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-E03-LED-E-U-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8266.4 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

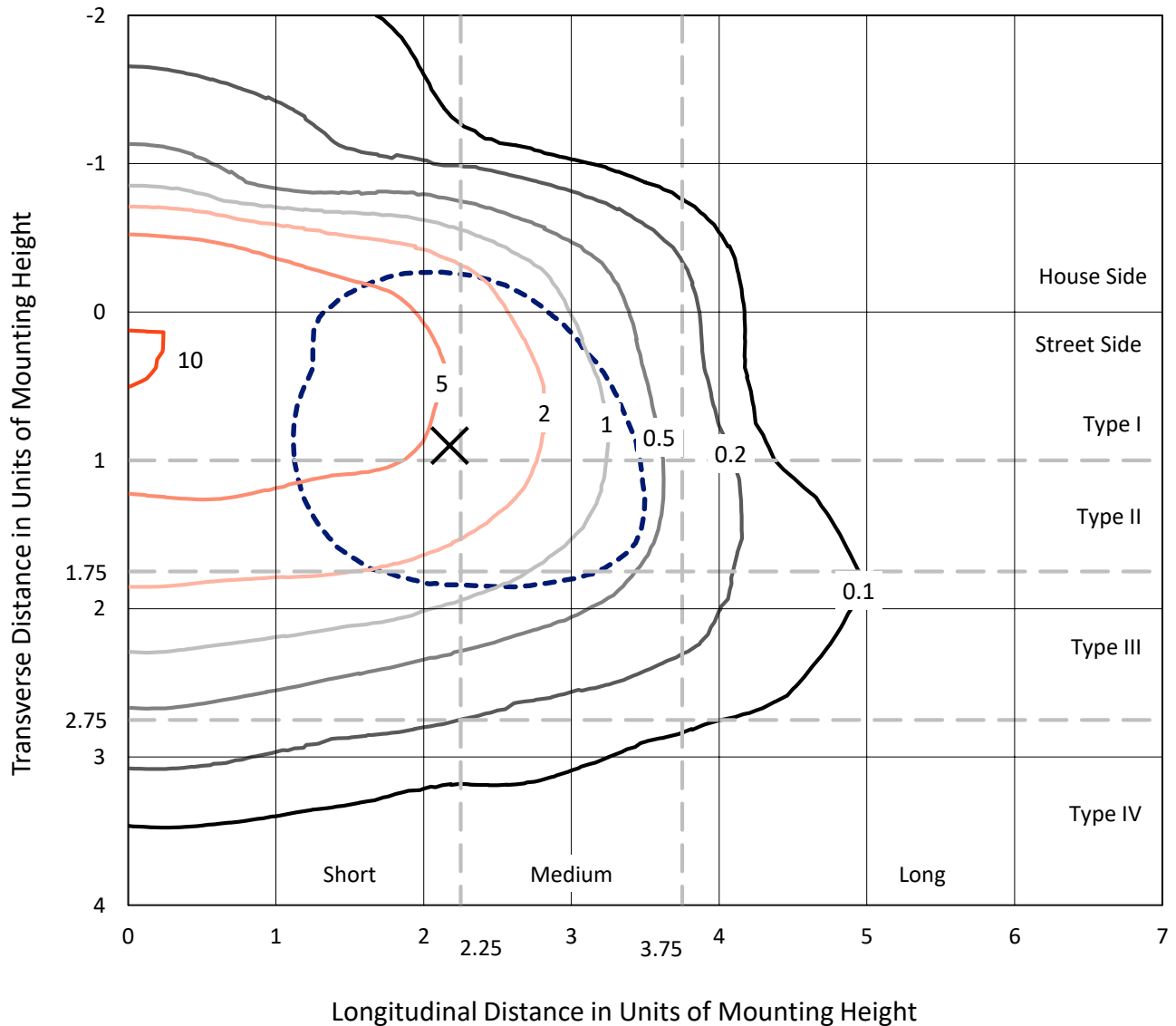
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

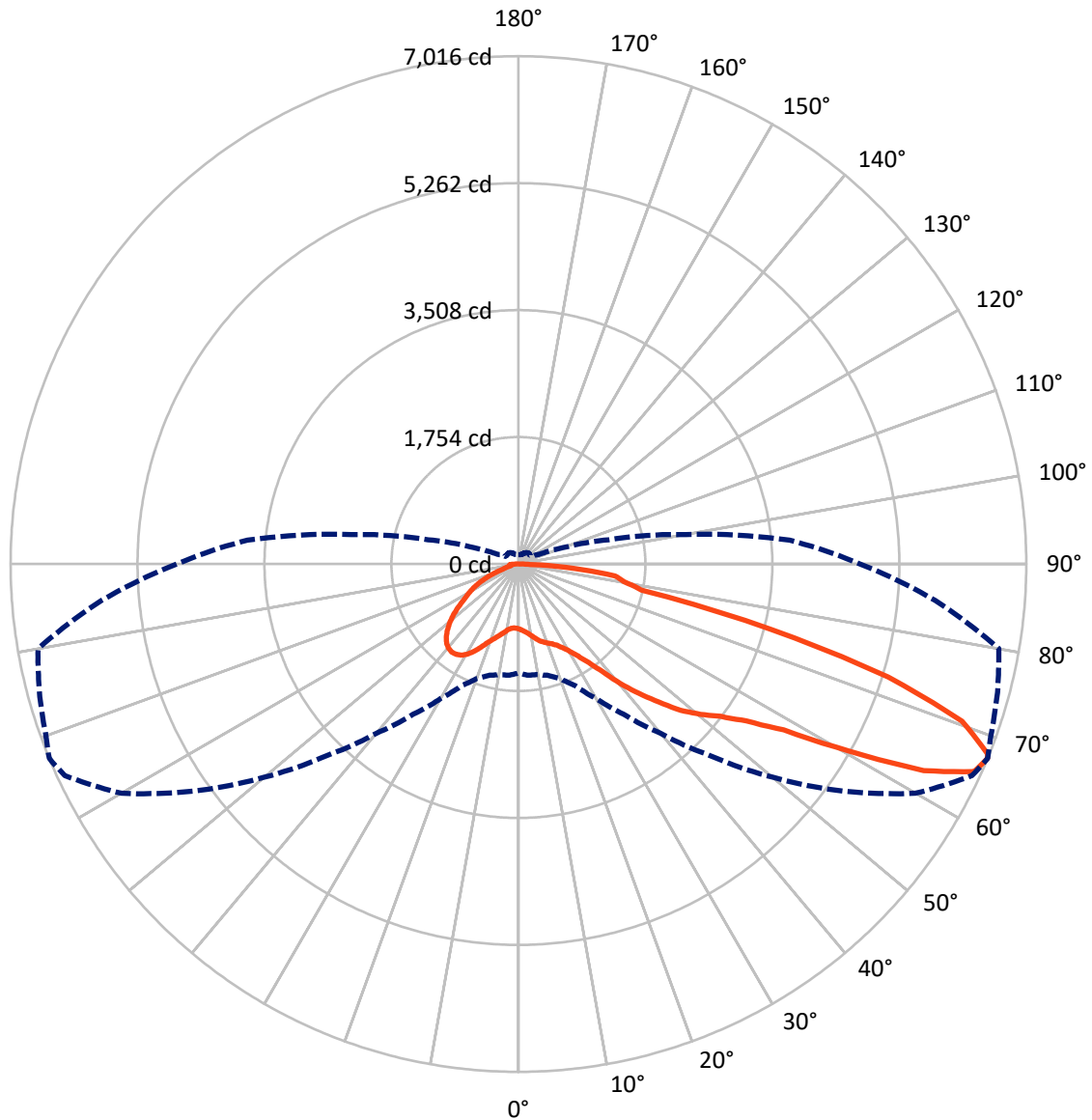
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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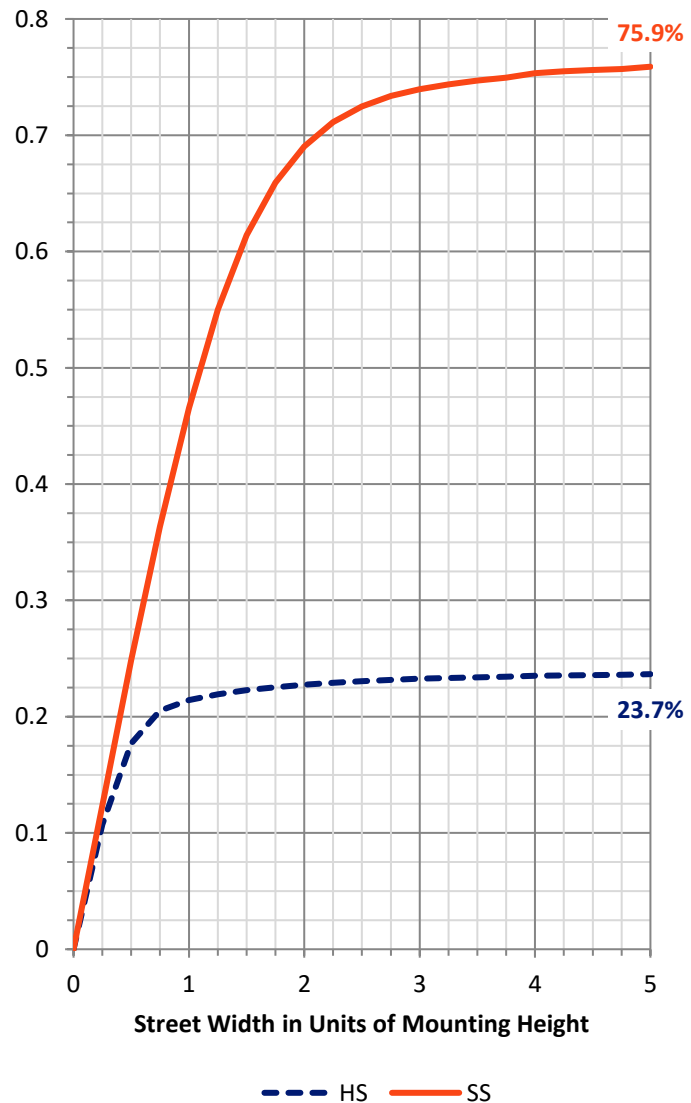
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1983.1	0.0	1983.1
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	6283.2	0.0	6283.2
	% Fixture	76.0	0.0	76.0
Total	Lumens	8266.4	0.0	8266.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.1
10°-20°	303.4	3.7
20°-30°	541.7	6.6
30°-40°	793.8	9.6
40°-50°	1226.6	14.8
50°-60°	1786.1	21.6
60°-70°	2326.7	28.1
70°-80°	1041.5	12.6
80°-90°	157.5	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°	8266.4	100.0
0°-180°	8266.4	100.0



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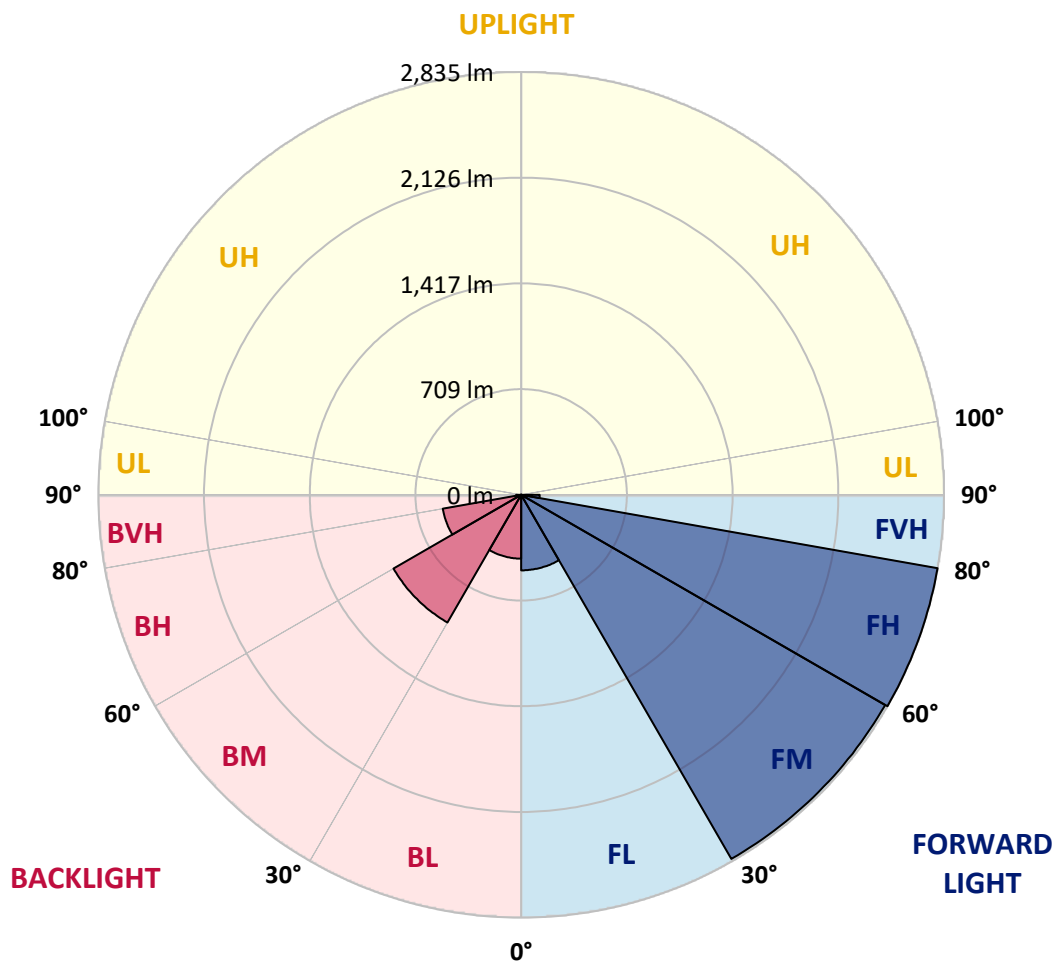
CATALOG NUMBER: VST-E03-LED-E-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.5	6.1			
FM	(30°-60°)	2818.4	34.1			
FH	(60°-80°)	2834.7	34.3			G2/5000
FVH	(80°-90°)	123.7	1.5			G2/225
BL	(0°-30°)	427.6	5.2	B1/500		
BM	(30°-60°)	988.1	12.0	B1/1000		
BH	(60°-80°)	533.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	33.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0
2.5°	931.1	933.2	933.8	933.2	933.8	931.6	931.1	927.8	929.4	925.0	923.9
5°	981.5	983.2	984.2	979.9	980.9	978.7	976.0	972.7	968.3	962.3	958.4
7.5°	1030.8	1033.6	1033.0	1031.3	1027.5	1025.3	1019.8	1014.9	1007.2	1000.1	995.2
10°	1097.1	1096.6	1096.6	1087.3	1081.8	1076.8	1067.0	1059.3	1051.6	1041.2	1035.7
12.5°	1173.8	1170.0	1168.4	1161.8	1150.3	1141.5	1127.3	1112.5	1098.8	1087.8	1079.0
15°	1247.8	1247.8	1243.4	1233.0	1222.1	1210.6	1190.3	1168.9	1146.4	1128.9	1120.1
17.5°	1315.2	1309.2	1305.4	1291.7	1280.2	1261.5	1239.1	1216.0	1188.1	1163.4	1146.4
20°	1364.5	1359.6	1351.4	1334.4	1314.7	1292.8	1266.5	1239.6	1209.5	1182.6	1163.4
22.5°	1393.0	1387.0	1374.4	1351.9	1325.1	1294.4	1263.7	1238.5	1211.1	1190.8	1174.9
25°	1407.8	1401.8	1384.8	1355.2	1319.0	1278.5	1243.4	1218.8	1202.9	1198.0	1195.7
27.5°	1407.3	1402.4	1384.3	1350.3	1303.7	1257.1	1219.3	1198.5	1196.9	1216.0	1230.3
30°	1393.0	1389.8	1373.3	1339.3	1290.5	1241.8	1206.7	1195.7	1212.7	1253.3	1288.4
32.5°	1378.8	1377.1	1365.7	1334.9	1293.3	1252.2	1228.1	1229.2	1264.3	1326.7	1383.2
35°	1380.4	1382.6	1381.0	1364.5	1338.2	1316.9	1305.4	1329.5	1384.3	1459.9	1535.5
37.5°	1394.7	1402.9	1413.3	1415.0	1415.5	1412.2	1436.3	1487.3	1567.3	1666.0	1784.3
40°	1425.9	1435.3	1465.4	1491.7	1525.7	1566.2	1615.0	1685.7	1784.9	1906.5	2051.8
42.5°	1522.9	1536.1	1573.3	1622.1	1684.6	1748.2	1821.1	1917.5	2039.2	2167.4	2319.7
45°	1649.5	1676.9	1718.0	1772.3	1866.0	1955.3	2049.5	2157.5	2286.8	2447.4	2600.9
47.5°	1807.3	1834.7	1894.5	1952.6	2063.3	2174.5	2277.5	2390.4	2530.7	2695.1	2865.0
50°	1945.4	1976.7	2029.8	2108.2	2236.4	2372.9	2486.9	2609.1	2726.9	2900.0	3071.6
52.5°	2053.9	2076.4	2127.4	2199.2	2342.2	2491.8	2635.9	2771.8	2911.6	3084.7	3243.7
55°	2067.7	2088.5	2138.3	2220.5	2365.7	2531.8	2697.8	2858.9	3056.8	3245.9	3456.3
57.5°	2008.4	2025.4	2075.9	2149.3	2290.7	2479.7	2689.6	2896.3	3149.4	3404.8	3661.8
60°	1924.6	1941.6	1981.1	2039.7	2167.4	2371.3	2616.2	2899.0	3235.4	3604.3	3982.4
62.5°	1832.5	1847.3	1879.1	1920.8	2033.1	2221.1	2501.6	2880.9	3305.6	3802.6	4385.7
65°	1677.5	1713.1	1726.8	1769.5	1881.8	2059.4	2344.9	2758.7	3277.1	3890.9	4638.9
67°	1505.9	1542.1	1549.2	1592.5	1682.4	1852.8	2143.3	2532.4	3051.3	3738.5	4583.0
67.5°	1451.2	1481.8	1492.8	1536.1	1621.0	1781.6	2057.2	2450.7	2982.3	3655.2	4515.6
70°	1067.0	1100.9	1113.0	1131.1	1191.9	1325.6	1508.1	1849.6	2377.8	2982.8	3809.2
72.5°	571.0	598.4	610.0	636.8	668.0	740.9	880.7	1125.6	1459.4	1995.8	2709.9
75°	386.3	397.3	405.5	424.1	456.5	514.6	575.9	662.0	863.6	1126.1	1542.1
77.5°	220.3	225.2	226.3	229.6	255.4	310.7	411.5	557.3	714.6	816.0	986.4
80°	95.3	105.2	112.9	107.9	106.3	117.8	147.4	219.8	430.7	683.9	811.6
82.5°	51.5	55.9	62.5	63.0	66.3	70.1	76.2	90.4	127.1	256.4	559.5
85°	26.9	28.0	37.3	42.7	45.5	47.7	48.8	54.2	62.5	79.4	139.2
87.5°	3.8	5.5	6.6	8.8	9.8	10.4	12.1	15.4	18.1	21.9	37.3
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0
2.5°	919.0	917.9	914.6	912.4	910.3	908.0	905.3	903.1	899.3	896.5	893.3
5°	953.0	946.4	942.0	936.0	934.9	927.8	920.6	917.3	910.8	905.3	898.7
7.5°	987.5	979.9	972.7	967.8	965.0	955.2	948.1	939.8	932.2	925.0	917.3
10°	1028.0	1020.4	1012.7	1009.4	1004.5	995.2	989.2	978.7	971.1	962.3	951.9
12.5°	1070.3	1064.8	1059.3	1054.9	1052.7	1048.3	1039.6	1030.8	1020.4	1011.6	999.6
15°	1107.5	1103.7	1101.5	1100.4	1100.4	1097.6	1089.4	1081.2	1070.3	1060.4	1047.2
17.5°	1133.8	1132.2	1133.8	1135.5	1137.7	1135.5	1133.8	1124.5	1117.4	1105.3	1092.2
20°	1149.2	1152.5	1160.7	1166.2	1171.1	1174.9	1176.6	1168.9	1159.6	1150.8	1142.0
22.5°	1165.6	1174.9	1189.2	1197.4	1205.6	1219.3	1222.6	1217.2	1210.0	1204.5	1195.2
25°	1193.0	1206.7	1231.4	1244.5	1256.0	1276.3	1279.1	1280.2	1278.5	1274.1	1262.6
27.5°	1235.8	1262.6	1295.5	1312.5	1325.1	1351.4	1361.8	1361.8	1357.4	1362.4	1362.4
30°	1310.3	1345.9	1388.6	1398.5	1418.3	1441.3	1458.2	1460.5	1461.0	1471.4	1486.7
32.5°	1424.8	1458.8	1506.5	1517.5	1534.4	1556.3	1575.5	1573.3	1578.2	1600.7	1621.0
35°	1591.4	1625.9	1657.2	1672.0	1679.6	1699.4	1706.5	1718.6	1733.3	1761.3	1758.5
37.5°	1838.0	1868.7	1873.1	1882.4	1873.1	1876.9	1882.4	1896.7	1936.1	1961.3	1920.8
40°	2135.0	2186.0	2181.1	2170.1	2149.3	2121.4	2131.2	2153.2	2195.9	2174.0	2064.9
42.5°	2415.1	2467.7	2457.8	2445.2	2399.2	2388.8	2387.7	2405.8	2428.8	2366.3	2177.8
45°	2690.8	2744.5	2727.4	2720.3	2689.6	2667.2	2685.8	2686.9	2680.9	2547.2	2276.5
47.5°	2975.2	3024.5	3013.5	3019.6	2987.8	2972.9	2974.6	2966.9	2910.5	2700.6	2353.1
50°	3204.8	3271.1	3277.6	3263.9	3247.0	3224.5	3282.1	3261.2	3135.7	2849.6	2427.1
52.5°	3383.4	3472.7	3506.7	3497.9	3484.3	3487.0	3595.0	3618.5	3410.8	3037.6	2508.8
55°	3595.0	3735.8	3791.2	3824.0	3809.8	3864.5	4111.7	4123.8	3793.3	3283.1	2615.1
57.5°	3900.2	4101.8	4276.7	4323.2	4368.2	4546.3	4947.4	4825.2	4289.8	3654.7	2749.9
60°	4364.3	4806.1	5089.9	5239.0	5344.2	5593.0	5974.4	5664.8	4908.5	4096.9	2919.2
62.5°	5014.3	5659.9	6134.4	6284.0	6327.3	6470.3	6746.6	6154.1	5245.6	4295.3	2934.1
65°	5498.2	6272.5	6840.8	6917.5	6866.0	6868.7	6941.1	6128.4	5120.0	4122.1	2679.8
67°	5466.4	6333.4	6915.4	7016.2	6944.9	6851.2	6738.4	5779.3	4716.7	3759.4	2346.6
67.5°	5417.6	6274.7	6883.0	6989.3	6924.1	6817.3	6652.3	5644.0	4591.2	3646.4	2278.6
70°	4683.3	5534.3	6353.6	6503.2	6530.6	6433.1	5970.0	4758.9	3727.6	2966.4	1769.5
72.5°	3645.4	4403.3	5213.8	5343.7	5448.8	5167.7	4345.2	3287.0	2717.0	2137.8	1281.2
75°	2406.8	3177.9	3586.7	3605.9	3471.7	2951.0	2123.0	1646.2	1515.2	1256.6	793.0
77.5°	1287.8	1868.7	1880.2	1741.0	1677.5	1250.6	507.5	280.0	311.8	354.0	315.7
80°	960.7	1190.3	1379.3	1482.9	1513.6	1072.4	262.5	148.5	129.9	118.4	116.7
82.5°	866.4	1149.7	1288.9	1345.4	1331.1	882.3	147.4	99.7	82.7	89.9	102.5
85°	339.8	613.8	807.2	781.4	656.5	328.8	80.6	53.7	53.7	77.8	100.9
87.5°	69.6	126.1	171.0	163.3	146.9	63.5	39.5	32.3	32.9	63.0	95.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0	896.0
2.5°	890.0	886.7	884.5	882.3	880.1	879.0	877.4	877.4	874.1	873.0	871.9
5°	893.8	888.3	884.5	879.5	875.7	872.5	868.0	866.9	863.1	860.4	859.3
7.5°	910.3	902.0	893.8	887.8	882.3	875.2	870.2	865.9	862.0	859.3	856.0
10°	941.5	932.7	921.2	910.3	903.1	892.1	884.5	876.8	872.5	869.2	864.8
12.5°	987.5	974.9	961.2	948.1	936.0	921.8	914.1	904.7	899.3	896.5	893.3
15°	1034.6	1021.0	1004.0	991.4	977.6	966.7	959.6	951.4	947.0	943.7	941.5
17.5°	1082.9	1067.0	1054.9	1042.3	1035.7	1027.5	1018.2	1007.8	995.2	987.5	977.1
20°	1132.2	1120.1	1113.0	1105.9	1098.2	1086.7	1068.1	1046.7	1023.1	1000.7	979.3
22.5°	1189.7	1182.6	1181.5	1174.9	1159.0	1131.7	1097.1	1057.1	1017.1	979.9	950.8
25°	1270.9	1270.9	1265.3	1238.5	1201.3	1151.9	1093.8	1036.3	983.2	932.2	893.8
27.5°	1372.7	1368.9	1342.1	1286.7	1219.9	1143.1	1065.4	992.5	924.5	868.6	819.3
30°	1485.1	1458.2	1400.7	1313.6	1213.3	1114.7	1019.3	934.9	854.9	786.4	728.3
32.5°	1601.8	1536.6	1433.0	1313.6	1190.3	1071.9	961.7	858.2	766.7	689.9	620.9
35°	1707.6	1588.7	1440.7	1292.2	1145.3	1008.9	881.2	763.9	654.3	571.6	496.0
37.5°	1803.5	1623.2	1432.5	1250.6	1080.1	920.1	770.5	641.2	517.3	437.3	372.7
40°	1866.0	1630.3	1398.5	1185.4	986.9	800.1	634.6	489.9	391.8	319.0	275.6
42.5°	1904.9	1616.6	1343.7	1096.0	861.5	649.4	476.2	351.3	278.4	237.8	221.4
45°	1926.8	1581.0	1262.6	973.8	709.7	493.7	338.1	253.7	214.3	200.0	194.5
47.5°	1925.7	1523.5	1161.2	832.4	542.0	344.2	239.5	197.8	186.9	182.5	181.4
50°	1914.2	1452.8	1042.3	679.0	391.3	240.0	189.6	177.5	174.8	172.1	171.0
52.5°	1898.3	1365.1	910.8	529.4	277.9	191.8	172.1	168.8	166.6	163.9	162.8
55°	1868.7	1257.1	768.3	398.4	217.6	173.2	166.0	164.9	162.2	158.4	156.2
57.5°	1832.5	1147.6	631.9	311.3	192.4	168.8	164.9	163.3	159.5	155.1	150.7
60°	1819.4	1057.1	525.0	262.5	186.3	170.5	167.7	165.5	160.0	153.4	148.5
62.5°	1737.2	955.2	448.3	243.3	189.6	177.5	176.5	173.2	164.9	157.3	149.6
65°	1524.5	807.8	379.8	230.2	196.2	189.6	190.7	185.8	177.5	167.2	153.4
67°	1289.5	658.7	316.2	217.6	201.1	202.2	206.0	202.2	191.8	177.0	158.4
67.5°	1227.0	620.9	300.3	213.7	202.2	205.5	209.9	207.1	196.7	179.8	160.6
70°	911.9	437.3	224.2	193.4	202.2	215.3	225.2	228.0	216.5	192.9	164.9
72.5°	642.2	282.2	172.1	167.7	183.6	201.1	219.8	229.1	215.9	190.1	158.9
75°	385.8	176.5	139.7	142.5	154.6	172.6	187.4	191.3	174.8	158.4	137.6
77.5°	178.7	117.3	109.6	113.5	124.9	133.1	133.1	125.5	112.9	103.0	98.6
80°	105.2	95.9	95.3	102.5	110.2	104.1	94.8	84.4	77.8	74.5	72.9
82.5°	98.6	102.5	109.1	110.7	104.6	89.9	78.4	68.0	64.7	63.0	61.4
85°	116.2	124.4	113.5	104.6	92.6	75.6	61.4	52.6	50.9	49.3	47.1
87.5°	107.4	102.5	89.3	76.7	63.5	46.0	33.4	30.1	32.3	31.8	30.7
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):

	160°	165°	170°	175°	180°
0°	896.0	896.0	896.0	896.0	896.0
2.5°	872.5	872.5	870.2	869.2	871.9
5°	857.1	857.6	856.0	855.4	856.0
7.5°	853.8	853.3	852.2	851.0	852.2
10°	863.6	863.1	861.5	862.6	860.9
12.5°	893.3	896.5	896.0	897.1	899.3
15°	941.5	940.9	939.3	940.4	942.0
17.5°	968.9	964.5	960.7	959.0	959.0
20°	962.3	949.7	943.1	939.3	938.2
22.5°	923.4	905.3	891.6	888.3	885.6
25°	859.8	837.4	819.8	816.0	808.9
27.5°	785.8	755.7	734.9	730.5	726.7
30°	688.9	654.3	630.2	614.9	619.8
32.5°	570.5	537.6	509.6	485.0	481.1
35°	440.6	404.5	379.8	368.8	361.7
37.5°	328.8	298.7	282.2	271.8	272.3
40°	251.5	235.6	226.9	219.8	220.3
42.5°	209.9	202.7	200.6	197.3	195.7
45°	190.1	188.0	188.5	185.2	184.1
47.5°	179.2	177.5	178.1	175.9	175.4
50°	170.5	169.3	169.9	168.2	167.7
52.5°	161.6	162.2	161.6	160.6	160.6
55°	154.0	153.4	154.6	152.9	152.9
57.5°	148.0	147.4	147.4	146.9	146.9
60°	144.7	142.5	142.0	142.0	142.5
62.5°	143.0	139.2	138.7	138.7	139.2
65°	143.6	137.6	135.4	134.8	134.3
67°	144.1	135.4	131.0	128.8	128.2
67.5°	144.7	134.3	129.4	127.1	126.1
70°	141.4	126.6	119.5	115.6	114.5
72.5°	133.1	117.3	108.5	103.6	102.5
75°	118.4	106.3	98.6	93.2	91.0
77.5°	91.5	86.0	83.3	80.0	78.9
80°	71.2	68.5	67.4	65.2	64.7
82.5°	59.2	56.5	54.8	52.1	50.4
85°	46.0	42.7	41.6	39.5	38.3
87.5°	30.1	28.5	28.0	25.2	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)