

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: P158428

Luminaire Tested: **VST-E03-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158428
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-SL3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7638.6 lumens
Efficiency: N/A
Efficacy: 101.6 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): 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



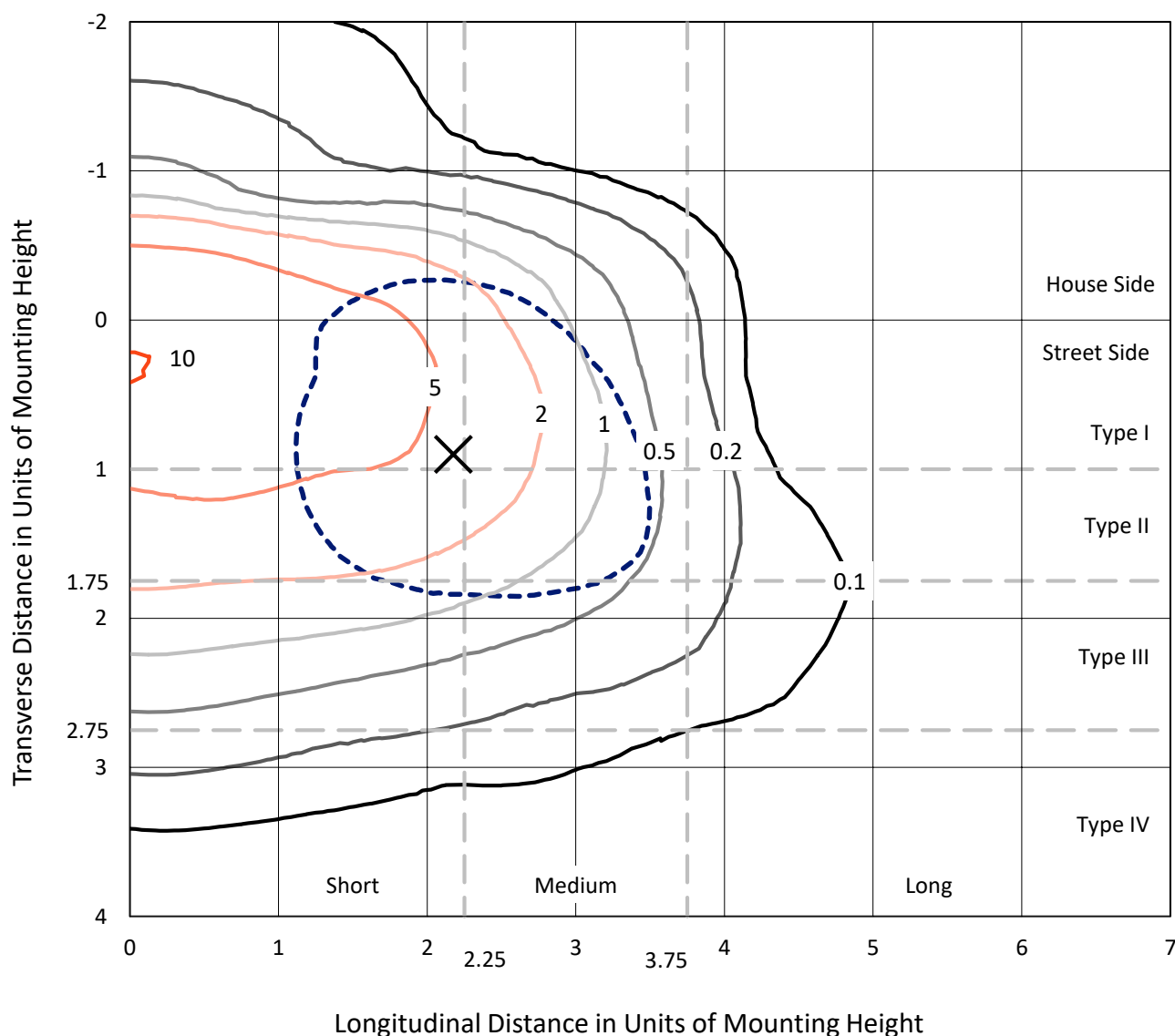
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

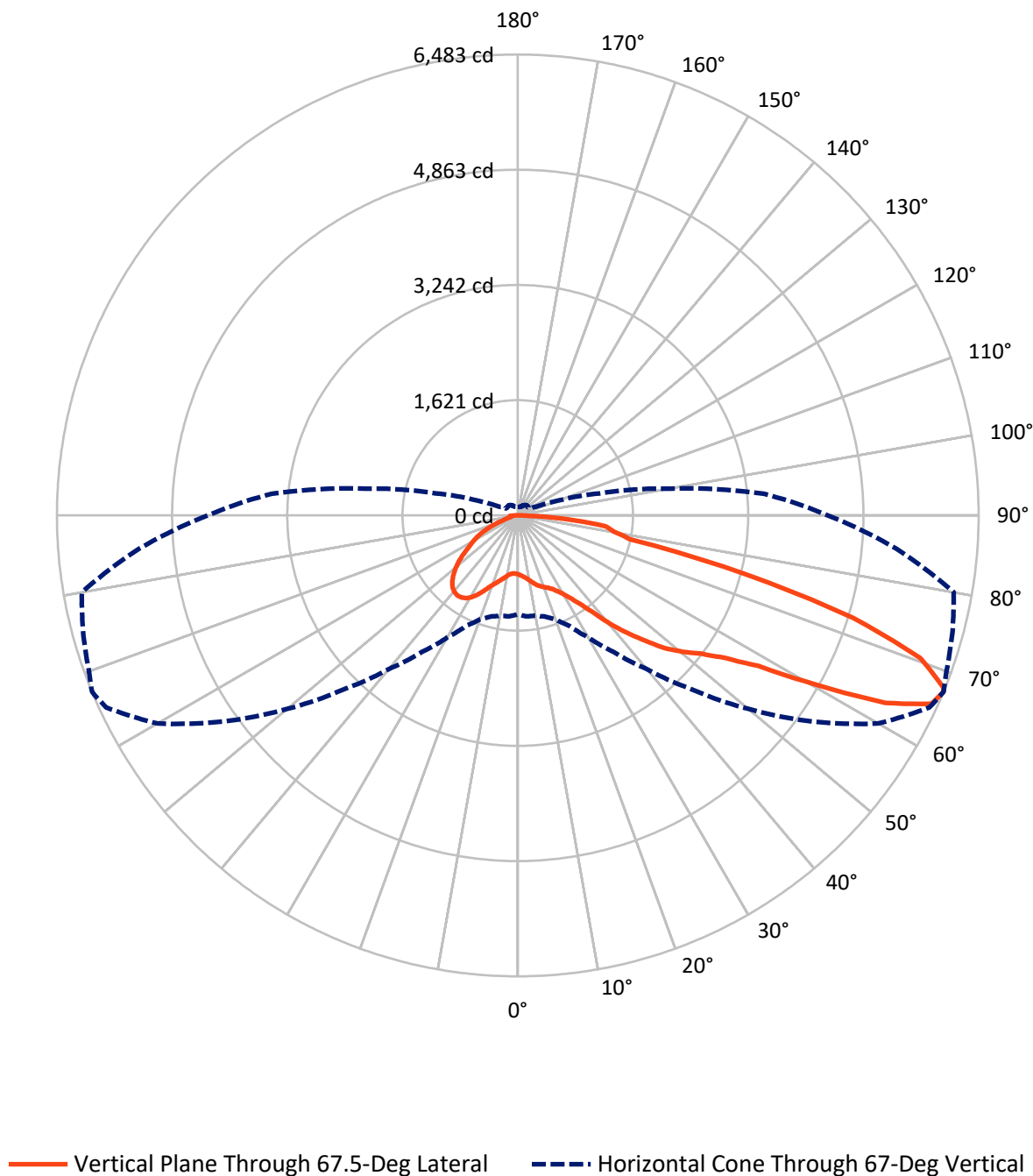


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1832.5	0.0	1832.5
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	5806.1	0.0	5806.1
	% Fixture	76.0	0.0	76.0
Total	Lumens	7638.6	0.0	7638.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	1.1
10°-20°	280.4	3.7
20°-30°	500.5	6.6
30°-40°	733.6	9.6
40°-50°	1133.4	14.8
50°-60°	1650.5	21.6
60°-70°	2150.0	28.1
70°-80°	962.4	12.6
80°-90°	145.5	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°	7638.6	100.0
0°-180°	7638.6	100.0

Coefficient of Utilization



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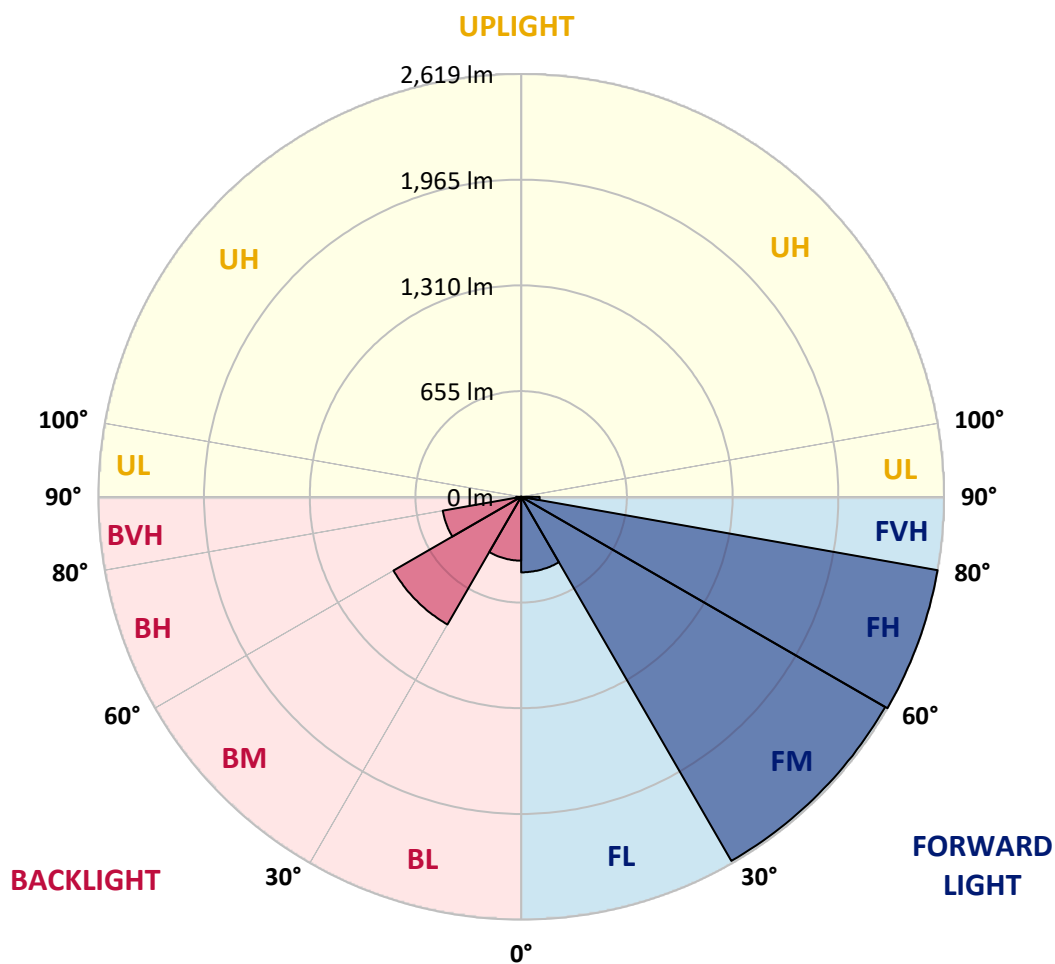
CATALOG NUMBER: VST-E03-LED-E-U-SL3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	468.0	6.1			
FM	(30°-60°)	2604.4	34.1			
FH	(60°-80°)	2619.4	34.3			G2/5000
FVH	(80°-90°)	114.3	1.5			G2/225
BL	(0°-30°)	395.2	5.2	B1/500		
BM	(30°-60°)	913.1	12.0	B1/1000		
BH	(60°-80°)	493.0	6.5	B1/500		G1/500
BVH	(80°-90°)	31.2	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°	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9
2.5°	860.3	862.4	862.9	862.4	862.9	860.9	860.3	857.3	858.8	854.8	853.8
5°	907.0	908.5	909.5	905.5	906.4	904.4	901.9	898.9	894.8	889.2	885.7
7.5°	952.5	955.1	954.5	953.0	949.5	947.5	942.4	937.9	930.8	924.2	919.6
10°	1013.8	1013.3	1013.3	1004.7	999.6	995.0	986.0	978.8	971.8	962.2	957.1
12.5°	1084.7	1081.1	1079.6	1073.6	1062.9	1054.8	1041.7	1028.0	1015.3	1005.2	997.1
15°	1153.1	1153.1	1149.0	1139.4	1129.3	1118.6	1099.9	1080.1	1059.4	1043.2	1035.1
17.5°	1215.4	1209.8	1206.2	1193.6	1183.0	1165.7	1145.0	1123.7	1097.9	1075.1	1059.4
20°	1260.9	1256.3	1248.8	1233.1	1214.8	1194.6	1170.3	1145.5	1117.6	1092.8	1075.1
22.5°	1287.2	1281.7	1270.0	1249.3	1224.5	1196.1	1167.7	1144.4	1119.1	1100.4	1085.7
25°	1300.9	1295.3	1279.7	1252.3	1218.9	1181.4	1149.0	1126.2	1111.6	1107.0	1105.0
27.5°	1300.4	1295.9	1279.1	1247.8	1204.7	1161.7	1126.7	1107.5	1106.0	1123.7	1136.9
30°	1287.2	1284.2	1269.0	1237.6	1192.6	1147.5	1115.1	1105.0	1120.7	1158.1	1190.5
32.5°	1274.1	1272.5	1261.9	1233.6	1195.1	1157.1	1134.8	1135.9	1168.3	1226.0	1278.1
35°	1275.6	1277.6	1276.1	1260.9	1236.6	1216.9	1206.2	1228.5	1279.1	1349.0	1418.9
37.5°	1288.8	1296.4	1306.0	1307.5	1308.0	1305.0	1327.3	1374.4	1448.3	1539.4	1648.8
40°	1317.7	1326.2	1354.1	1378.4	1409.8	1447.3	1492.3	1557.7	1649.3	1761.7	1895.9
42.5°	1407.3	1419.4	1453.9	1498.9	1556.6	1615.4	1682.8	1771.9	1884.3	2002.8	2143.6
45°	1524.2	1549.6	1587.5	1637.7	1724.3	1806.8	1893.9	1993.7	2113.2	2261.6	2403.4
47.5°	1670.1	1695.4	1750.6	1804.3	1906.6	2009.4	2104.6	2208.9	2338.6	2490.4	2647.4
50°	1797.7	1826.6	1875.7	1948.1	2066.6	2192.7	2298.0	2410.9	2519.8	2679.8	2838.4
52.5°	1898.0	1918.7	1965.8	2032.1	2164.3	2302.6	2435.8	2561.3	2690.5	2850.5	2997.4
55°	1910.6	1929.8	1976.0	2051.9	2186.1	2339.5	2493.0	2641.9	2824.7	2999.4	3193.9
57.5°	1855.9	1871.6	1918.2	1986.1	2116.7	2291.5	2485.4	2676.3	2910.2	3146.2	3383.7
60°	1778.5	1794.2	1830.6	1884.8	2002.8	2191.1	2417.5	2678.8	2989.7	3330.5	3680.0
62.5°	1693.4	1707.1	1736.4	1774.9	1878.7	2052.4	2311.7	2662.1	3054.6	3513.9	4052.7
65°	1550.1	1583.0	1595.6	1635.1	1739.0	1903.0	2166.8	2549.2	3028.3	3595.4	4286.6
67°	1391.6	1425.0	1431.6	1471.6	1554.7	1712.1	1980.5	2340.1	2819.6	3454.6	4235.0
67.5°	1340.9	1369.3	1379.4	1419.4	1497.9	1646.3	1901.0	2264.6	2755.8	3377.6	4172.7
70°	986.0	1017.4	1028.5	1045.2	1101.4	1225.0	1393.6	1709.1	2197.3	2756.3	3520.0
72.5°	527.6	553.0	563.6	588.4	617.3	684.7	813.8	1040.2	1348.5	1844.3	2504.1
75°	357.0	367.1	374.8	391.9	421.8	475.5	532.2	611.7	798.1	1040.6	1425.0
77.5°	203.6	208.1	209.2	212.2	236.0	287.1	380.3	515.0	660.4	754.0	911.5
80°	88.1	97.2	104.3	99.8	98.2	108.9	136.2	203.0	398.0	632.0	750.0
82.5°	47.6	51.7	57.7	58.3	61.3	64.8	70.4	83.6	117.5	237.0	517.0
85°	24.8	25.8	34.4	39.5	42.1	44.0	45.1	50.2	57.7	73.4	128.6
87.5°	3.5	5.0	6.1	8.1	9.1	9.6	11.2	14.2	16.7	20.3	34.4
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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CATALOG NUMBER: VST-E03-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9
2.5°	849.2	848.2	845.2	843.1	841.1	839.1	836.6	834.5	831.0	828.5	825.4
5°	880.6	874.6	870.5	864.9	863.9	857.3	850.7	847.7	841.6	836.6	830.5
7.5°	912.5	905.5	898.9	894.3	891.8	882.7	876.1	868.4	861.4	854.8	847.7
10°	950.0	942.9	935.8	932.8	928.2	919.6	914.0	904.4	897.4	889.2	879.6
12.5°	989.0	983.9	978.8	974.8	972.8	968.8	960.7	952.5	942.9	934.8	923.6
15°	1023.4	1019.9	1017.8	1016.8	1016.8	1014.3	1006.7	999.1	989.0	979.9	967.7
17.5°	1047.7	1046.2	1047.7	1049.2	1051.3	1049.2	1047.7	1039.1	1032.5	1021.4	1009.3
20°	1061.9	1064.9	1072.6	1077.6	1082.2	1085.7	1087.2	1080.1	1071.5	1063.4	1055.3
22.5°	1077.1	1085.7	1098.9	1106.5	1114.1	1126.7	1129.7	1124.7	1118.1	1113.1	1104.4
25°	1102.4	1115.1	1137.8	1150.0	1160.6	1179.4	1181.9	1183.0	1181.4	1177.4	1166.8
27.5°	1141.9	1166.8	1197.1	1212.8	1224.5	1248.8	1258.4	1258.4	1254.4	1258.9	1258.9
30°	1210.8	1243.7	1283.2	1292.3	1310.5	1331.8	1347.5	1349.5	1350.1	1359.7	1373.8
32.5°	1316.6	1348.0	1392.1	1402.2	1417.9	1438.1	1455.9	1453.9	1458.4	1479.2	1497.9
35°	1470.5	1502.5	1531.3	1545.0	1552.1	1570.3	1576.9	1588.1	1601.7	1627.6	1625.0
37.5°	1698.4	1726.8	1730.9	1739.5	1730.9	1734.4	1739.5	1752.7	1789.1	1812.4	1774.9
40°	1972.9	2020.0	2015.5	2005.3	1986.1	1960.3	1969.4	1989.6	2029.1	2008.9	1908.1
42.5°	2231.7	2280.3	2271.2	2259.5	2217.0	2207.4	2206.4	2223.1	2244.4	2186.6	2012.4
45°	2486.4	2536.0	2520.3	2513.8	2485.4	2464.6	2481.8	2482.9	2477.3	2353.7	2103.5
47.5°	2749.2	2794.8	2784.7	2790.2	2760.8	2747.2	2748.7	2741.6	2689.4	2495.5	2174.5
50°	2961.4	3022.7	3028.7	3016.1	3000.4	2979.6	3032.8	3013.6	2897.6	2633.3	2242.8
52.5°	3126.5	3209.0	3240.4	3232.3	3219.7	3222.2	3322.0	3343.7	3151.8	2806.9	2318.3
55°	3322.0	3452.1	3503.2	3533.6	3520.4	3571.1	3799.5	3810.6	3505.3	3033.8	2416.5
57.5°	3604.0	3790.4	3951.9	3994.9	4036.5	4201.0	4571.8	4458.8	3964.1	3377.2	2541.1
60°	4032.9	4441.1	4703.4	4841.2	4938.4	5168.3	5520.7	5234.6	4535.8	3785.8	2697.5
62.5°	4633.5	5230.0	5668.6	5806.8	5846.8	5979.0	6234.2	5686.8	4847.2	3969.1	2711.2
65°	5080.7	5796.2	6321.3	6392.2	6344.6	6347.2	6414.0	5663.0	4731.2	3809.1	2476.3
67°	5051.3	5852.4	6390.2	6483.4	6417.5	6331.0	6226.6	5340.4	4358.5	3473.9	2168.4
67.5°	5006.2	5798.2	6360.3	6458.6	6398.3	6299.5	6147.1	5215.4	4242.6	3369.5	2105.6
70°	4327.6	5114.1	5871.1	6009.4	6034.7	5944.6	5516.6	4397.5	3444.5	2741.1	1635.1
72.5°	3368.5	4068.9	4817.8	4937.9	5035.1	4775.3	4015.2	3037.4	2510.7	1975.4	1184.0
75°	2224.1	2936.6	3314.3	3332.1	3208.0	2726.9	1961.8	1521.2	1400.2	1161.2	732.8
77.5°	1190.0	1726.8	1737.4	1608.8	1550.1	1155.6	468.9	258.8	288.1	327.1	291.7
80°	887.7	1099.9	1274.6	1370.3	1398.7	991.0	242.6	137.2	120.0	109.4	107.9
82.5°	800.6	1062.4	1191.1	1243.2	1230.1	815.3	136.2	92.2	76.4	83.0	94.7
85°	314.0	567.2	745.9	722.1	606.7	303.8	74.5	49.6	49.6	71.9	93.2
87.5°	64.3	116.5	158.0	150.9	135.7	58.7	36.5	29.9	30.4	58.3	88.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9	827.9
2.5°	822.4	819.4	817.3	815.3	813.2	812.3	810.7	810.7	807.7	806.7	805.7
5°	825.9	820.9	817.3	812.8	809.2	806.2	802.1	801.1	797.6	795.1	794.0
7.5°	841.1	833.5	825.9	820.4	815.3	808.7	804.2	800.1	796.6	794.0	791.0
10°	870.0	861.9	851.2	841.1	834.5	824.4	817.3	810.2	806.2	803.2	799.1
12.5°	912.5	900.9	888.2	876.1	864.9	851.8	844.7	836.0	831.0	828.5	825.4
15°	956.1	943.4	927.7	916.1	903.4	893.3	886.7	879.1	875.0	872.0	870.0
17.5°	1000.6	986.0	974.8	963.2	957.1	949.5	940.9	931.3	919.6	912.5	902.9
20°	1046.2	1035.1	1028.5	1021.9	1014.8	1004.2	986.9	967.2	945.4	924.7	904.9
22.5°	1099.4	1092.8	1091.8	1085.7	1071.0	1045.7	1013.8	976.9	939.8	905.5	878.6
25°	1174.3	1174.3	1169.3	1144.4	1110.0	1064.5	1010.8	957.6	908.5	861.4	825.9
27.5°	1268.5	1265.0	1240.1	1189.0	1127.2	1056.4	984.4	917.1	854.3	802.6	757.1
30°	1372.3	1347.5	1294.3	1213.8	1121.2	1030.0	941.9	863.9	790.0	726.7	673.0
32.5°	1480.2	1420.0	1324.2	1213.8	1099.9	990.5	888.7	793.0	708.4	637.6	573.7
35°	1577.9	1468.0	1331.3	1194.1	1058.3	932.3	814.3	705.9	604.6	528.2	458.3
37.5°	1666.6	1499.9	1323.7	1155.6	998.1	850.3	712.0	592.5	478.0	404.1	344.3
40°	1724.3	1506.5	1292.3	1095.4	912.0	739.3	586.4	452.7	362.1	294.7	254.7
42.5°	1760.2	1493.9	1241.7	1012.8	796.1	600.1	440.0	324.6	257.2	219.8	204.6
45°	1780.5	1460.9	1166.8	899.9	655.8	456.2	312.4	234.5	198.0	184.9	179.8
47.5°	1779.5	1407.8	1073.0	769.2	500.8	318.0	221.3	182.8	172.7	168.6	167.6
50°	1768.9	1342.4	963.2	627.4	361.6	221.8	175.2	164.1	161.5	159.0	158.0
52.5°	1754.2	1261.4	841.6	489.2	256.7	177.2	159.0	155.9	154.0	151.4	150.4
55°	1726.8	1161.7	710.0	368.2	201.1	160.0	153.4	152.4	149.9	146.3	144.3
57.5°	1693.4	1060.4	583.9	287.6	177.7	155.9	152.4	150.9	147.4	143.3	139.3
60°	1681.2	976.9	485.1	242.6	172.2	157.5	155.0	152.9	147.8	141.8	137.2
62.5°	1605.3	882.7	414.2	224.8	175.2	164.1	163.1	160.0	152.4	145.3	138.2
65°	1408.8	746.4	350.9	212.7	181.3	175.2	176.2	171.7	164.1	154.4	141.8
67°	1191.5	608.7	292.2	201.1	185.8	186.8	190.4	186.8	177.2	163.6	146.3
67.5°	1133.8	573.7	277.5	197.5	186.8	189.9	193.9	191.4	181.8	166.1	148.4
70°	842.6	404.1	207.1	178.7	186.8	199.0	208.1	210.7	200.0	178.3	152.4
72.5°	593.5	260.8	159.0	155.0	169.6	185.8	203.0	211.7	199.5	175.7	146.9
75°	356.5	163.1	129.1	131.6	142.8	159.5	173.2	176.8	161.5	146.3	127.1
77.5°	165.1	108.4	101.3	104.8	115.4	123.1	123.1	116.0	104.3	95.2	91.1
80°	97.2	88.6	88.1	94.7	101.8	96.2	87.6	78.0	71.9	68.9	67.4
82.5°	91.1	94.7	100.8	102.3	96.7	83.0	72.4	62.8	59.8	58.3	56.7
85°	107.3	115.0	104.8	96.7	85.6	69.9	56.7	48.6	47.1	45.6	43.6
87.5°	99.2	94.7	82.6	70.9	58.7	42.5	30.9	27.8	29.9	29.4	28.4
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):

	160°	165°	170°	175°	180°
0°	827.9	827.9	827.9	827.9	827.9
2.5°	806.2	806.2	804.2	803.2	805.7
5°	792.0	792.5	791.0	790.5	791.0
7.5°	788.9	788.5	787.4	786.4	787.4
10°	798.1	797.6	796.1	797.0	795.5
12.5°	825.4	828.5	827.9	829.0	831.0
15°	870.0	869.5	868.0	869.0	870.5
17.5°	895.3	891.2	887.7	886.2	886.2
20°	889.2	877.6	871.5	868.0	866.9
22.5°	853.3	836.6	823.9	820.9	818.3
25°	794.5	773.8	757.6	754.0	747.4
27.5°	726.2	698.3	679.1	675.0	671.5
30°	636.5	604.6	582.4	568.2	572.8
32.5°	527.2	496.8	470.9	448.1	444.6
35°	407.2	373.7	350.9	340.8	334.2
37.5°	303.8	276.0	260.8	251.2	251.7
40°	232.4	217.7	209.6	203.0	203.6
42.5°	193.9	187.4	185.3	182.3	180.8
45°	175.7	173.7	174.2	171.2	170.2
47.5°	165.6	164.1	164.6	162.5	162.1
50°	157.5	156.5	157.0	155.5	155.0
52.5°	149.4	149.9	149.4	148.4	148.4
55°	142.3	141.8	142.8	141.3	141.3
57.5°	136.7	136.2	136.2	135.7	135.7
60°	133.7	131.6	131.2	131.2	131.6
62.5°	132.2	128.6	128.1	128.1	128.6
65°	132.7	127.1	125.1	124.6	124.1
67°	133.2	125.1	121.0	119.0	118.5
67.5°	133.7	124.1	119.5	117.5	116.5
70°	130.6	117.0	110.4	106.9	105.8
72.5°	123.1	108.4	100.3	95.7	94.7
75°	109.4	98.2	91.1	86.1	84.1
77.5°	84.5	79.5	77.0	73.9	72.9
80°	65.8	63.3	62.3	60.2	59.8
82.5°	54.7	52.1	50.6	48.1	46.6
85°	42.5	39.5	38.5	36.5	35.5
87.5°	27.8	26.3	25.8	23.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)