

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209400

Luminaire Tested: UPW-SA2-110-827-U-SLR

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-947-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-110-827-U-SLR
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATING
RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10422 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

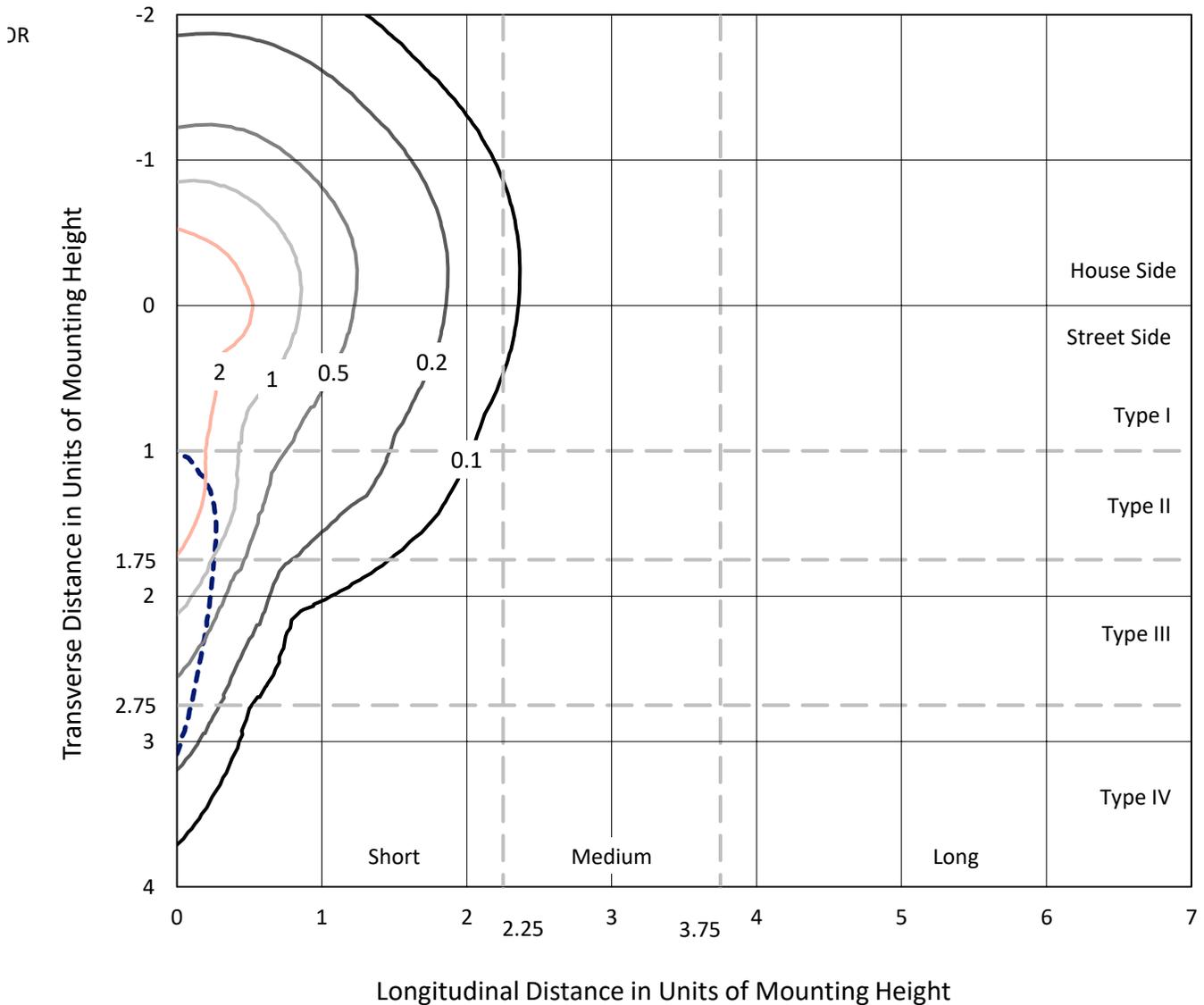
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

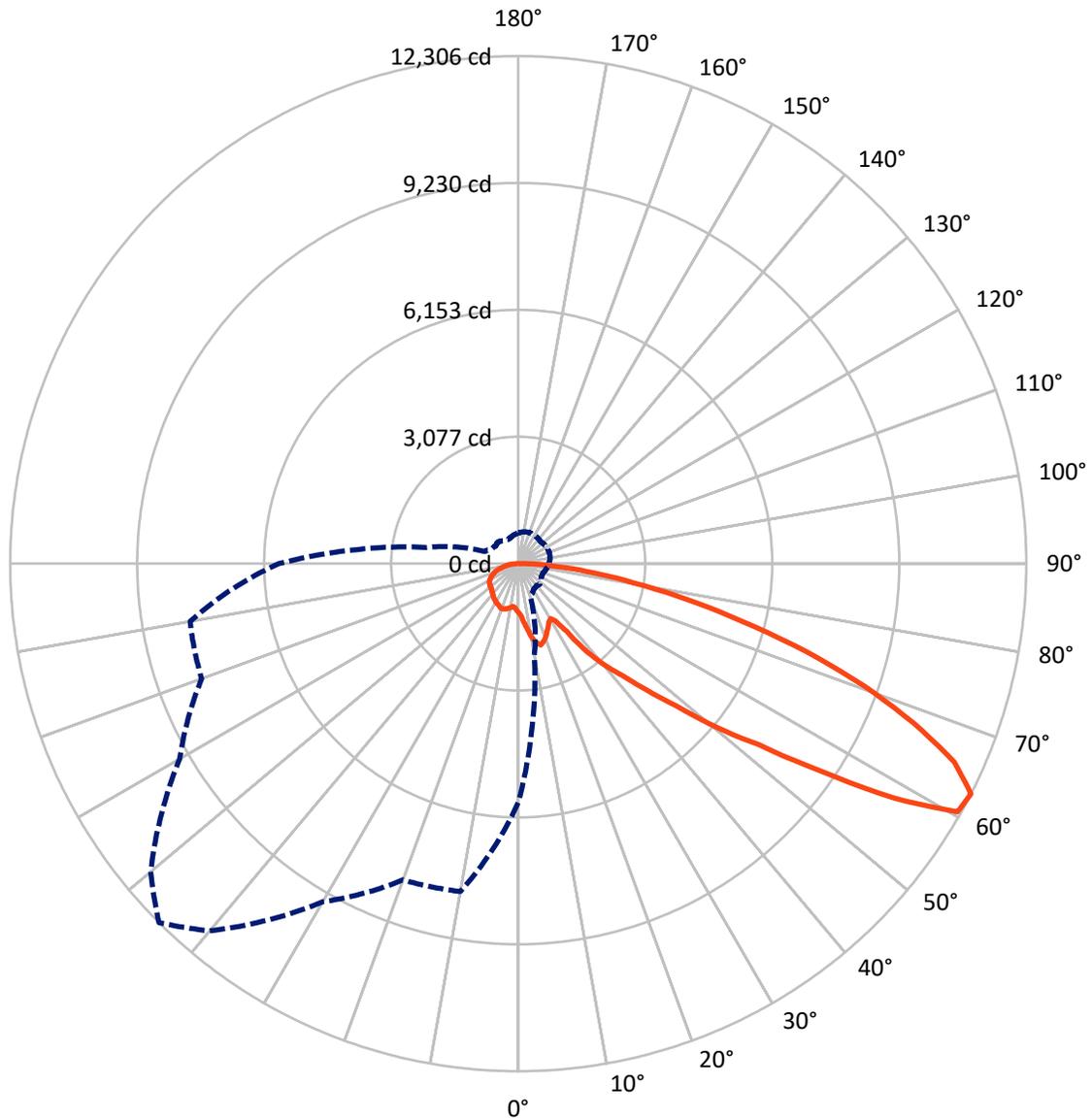
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2554.1	0.0	2554.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	7867.9	0.0	7867.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	10422.0	0.0	10422.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	1.1
10°-20°	399.8	3.8
20°-30°	650.3	6.2
30°-40°	887.0	8.5
40°-50°	1343.0	12.9
50°-60°	2309.5	22.2
60°-70°	2708.4	26.0
70°-80°	1615.3	15.5
80°-90°	390.2	3.7
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°	10422.0	100.0
0°-180°	10422.0	100.0



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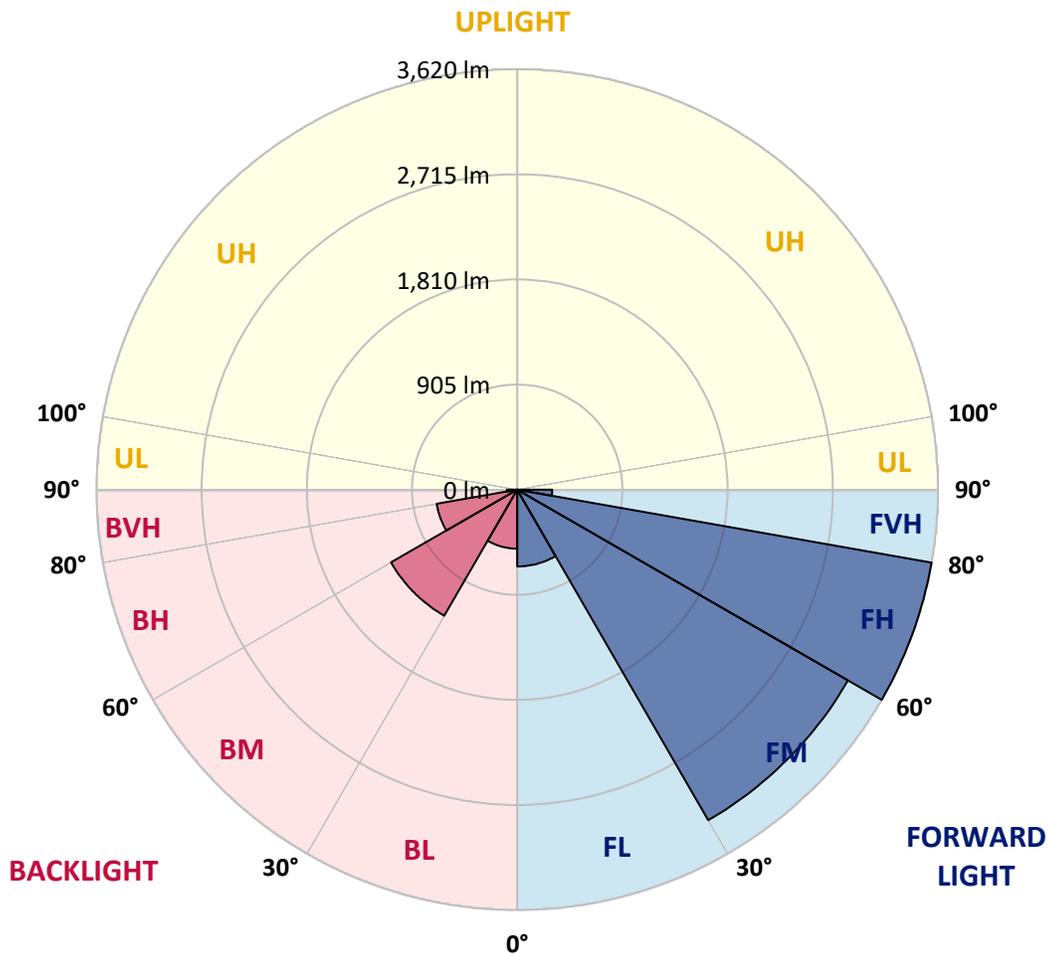
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.6	6.3			
FM	(30°-60°)	3285.9	31.5			
FH	(60°-80°)	3619.9	34.7			G2/5000
FVH	(80°-90°)	301.5	2.9			G3/500
BL	(0°-30°)	508.1	4.9	B2/1000		
BM	(30°-60°)	1253.6	12.0	B2/2500		
BH	(60°-80°)	703.8	6.8	B2/1000		G2/1000
BVH	(80°-90°)	88.7	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8
2.5°	1236.9	1233.6	1232.5	1228.2	1223.9	1216.1	1208.4	1202.9	1197.3	1190.9	1180.8
5°	1323.1	1313.4	1300.0	1281.1	1261.9	1244.0	1226.2	1211.2	1196.1	1182.8	1170.3
7.5°	1440.1	1396.4	1359.4	1329.0	1298.6	1269.8	1241.0	1218.9	1196.7	1175.8	1155.1
10°	1525.2	1488.9	1446.0	1394.3	1342.7	1302.4	1262.3	1237.6	1213.0	1193.8	1161.2
12.5°	1628.2	1572.5	1511.8	1449.3	1386.9	1336.1	1285.6	1249.8	1214.2	1187.4	1173.8
15°	1730.2	1662.3	1585.7	1503.5	1421.2	1356.9	1292.6	1251.6	1210.7	1182.8	1174.9
17.5°	1842.6	1743.2	1645.1	1547.8	1450.3	1366.7	1282.9	1234.8	1186.8	1159.5	1172.2
20°	1922.3	1822.1	1715.8	1597.7	1479.4	1374.1	1268.6	1210.6	1152.5	1125.7	1131.4
22.5°	1981.2	1876.4	1762.2	1625.3	1488.5	1363.6	1238.7	1173.0	1107.4	1080.8	1103.8
25°	2060.9	1935.6	1802.0	1642.8	1483.6	1341.3	1199.1	1132.1	1065.1	1043.0	1066.3
27.5°	2112.2	1999.3	1870.5	1691.3	1512.0	1346.9	1181.6	1107.4	1033.1	1009.2	1031.7
30°	2186.7	2070.6	1933.4	1732.5	1531.6	1350.0	1168.4	1090.4	1012.4	986.5	993.8
32.5°	2261.8	2136.6	1987.2	1759.3	1531.3	1334.5	1137.7	1064.4	991.2	967.9	975.1
35°	2323.6	2200.6	2042.9	1783.9	1524.8	1312.5	1100.1	1033.0	965.8	948.1	945.9
37.5°	2431.9	2284.9	2097.6	1803.0	1508.3	1279.8	1051.1	987.1	923.0	910.2	905.3
40°	2582.7	2421.1	2195.7	1846.3	1496.9	1248.1	999.3	937.5	875.6	871.2	867.7
42.5°	2792.9	2570.1	2286.5	1887.5	1488.5	1221.8	955.1	895.8	836.5	828.1	818.8
45°	3153.4	2811.1	2412.7	1944.0	1475.4	1200.7	925.9	866.3	806.6	782.1	781.7
47.5°	3756.7	3214.7	2615.7	2034.1	1452.6	1178.8	905.0	850.9	796.9	758.2	743.8
50°	4554.6	3792.3	2940.6	2193.4	1446.3	1170.8	895.4	845.8	796.4	739.6	712.3
52.5°	5288.3	4296.0	3203.5	2315.4	1427.3	1150.6	873.8	835.6	797.2	740.7	703.8
55°	5924.8	4634.3	3311.0	2347.3	1383.7	1109.0	834.5	820.4	806.2	772.8	708.1
57.5°	6383.7	4683.6	3113.0	2197.9	1282.9	1046.9	810.9	802.0	793.2	793.7	720.7
60°	6305.1	4392.3	2677.9	1872.6	1067.1	930.6	794.1	767.4	740.7	766.4	723.3
62.5°	5792.6	3910.4	2249.3	1556.2	863.0	798.3	733.5	712.2	690.9	720.9	705.6
65°	5155.5	3375.3	1846.3	1266.0	685.8	673.0	660.2	655.5	650.8	658.6	667.4
67.5°	4422.9	2812.4	1472.4	996.0	519.7	531.2	542.7	565.3	587.9	591.1	611.5
70°	3792.8	2304.6	1132.3	773.8	415.2	430.9	446.7	480.1	513.6	529.9	548.2
72.5°	3041.0	1778.3	829.3	583.7	338.3	352.0	365.7	403.6	441.4	476.9	496.6
75°	2237.4	1279.8	584.7	431.6	278.6	288.7	298.7	333.8	369.0	414.1	434.5
77.5°	1551.4	881.4	407.9	318.0	228.0	232.9	237.8	269.7	301.7	354.7	376.0
80°	855.5	507.3	263.2	219.5	175.9	179.2	182.6	209.2	235.9	283.0	307.8
82.5°	423.4	270.6	165.6	147.8	129.9	131.7	133.7	153.9	174.1	207.9	234.6
85°	166.6	122.3	92.9	88.1	83.3	84.3	85.3	98.0	110.6	131.6	158.6
87.5°	60.0	46.6	38.7	37.0	35.2	34.0	32.8	39.4	45.7	57.1	89.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8
2.5°	1175.6	1170.5	1165.6	1160.6	1156.0	1151.3	1147.8	1144.3	1137.4	1130.7	1126.8
5°	1156.3	1142.3	1130.2	1118.1	1110.5	1103.0	1094.8	1086.7	1080.4	1074.1	1069.2
7.5°	1138.7	1122.2	1108.8	1095.4	1084.4	1073.6	1065.8	1058.1	1056.6	1055.2	1052.0
10°	1143.8	1126.5	1113.5	1100.4	1090.4	1080.6	1075.1	1069.8	1068.0	1066.3	1066.2
12.5°	1165.7	1157.7	1148.3	1138.8	1128.8	1119.0	1119.4	1119.9	1111.4	1103.0	1100.8
15°	1177.6	1180.4	1183.4	1186.6	1183.9	1181.2	1171.6	1161.8	1151.8	1141.6	1138.4
17.5°	1181.5	1190.6	1204.5	1218.5	1224.3	1230.2	1218.7	1207.2	1191.0	1174.9	1167.3
20°	1153.1	1174.6	1200.9	1227.4	1237.0	1246.8	1235.7	1224.7	1206.6	1188.6	1176.6
22.5°	1130.3	1156.8	1184.4	1211.9	1220.5	1229.0	1222.8	1216.5	1197.1	1177.5	1164.6
25°	1092.4	1118.3	1144.9	1171.5	1183.4	1195.6	1194.0	1192.7	1172.4	1152.1	1137.9
27.5°	1053.6	1075.6	1098.9	1122.2	1135.7	1149.3	1151.2	1153.1	1137.9	1122.8	1109.5
30°	1009.0	1024.0	1044.5	1064.8	1078.7	1092.7	1097.6	1102.4	1092.7	1083.2	1074.1
32.5°	981.4	987.7	1002.2	1016.8	1030.1	1043.3	1050.7	1058.1	1056.5	1055.0	1051.5
35°	945.5	945.2	951.7	958.3	970.3	982.4	996.7	1011.0	1012.8	1014.7	1016.1
37.5°	901.2	897.1	901.4	905.6	916.0	926.5	941.3	956.2	966.8	977.4	982.3
40°	861.9	856.1	856.5	857.0	866.4	875.9	889.8	903.8	923.5	943.2	954.0
42.5°	816.0	813.2	811.7	810.0	818.1	826.0	847.2	868.3	890.3	912.2	921.9
45°	775.5	769.3	771.5	773.6	783.7	793.7	812.0	830.4	855.6	880.7	892.7
47.5°	740.5	737.3	740.7	744.2	754.5	764.6	787.1	809.5	834.0	858.6	871.3
50°	710.3	708.4	718.4	728.2	739.8	751.5	770.9	790.2	816.5	842.7	860.1
52.5°	698.7	693.6	708.1	722.7	731.5	740.5	758.7	776.9	805.5	834.2	851.2
55°	691.5	674.9	692.8	710.5	721.2	732.0	752.2	772.2	797.7	823.2	839.5
57.5°	689.0	657.5	674.9	692.4	711.0	729.7	750.1	770.4	796.5	822.5	836.5
60°	686.5	649.7	659.8	669.9	696.6	723.3	742.5	761.7	785.9	810.0	819.7
62.5°	674.4	643.1	642.0	640.8	669.5	697.9	719.9	741.9	763.9	785.9	792.7
65°	647.0	626.6	617.5	608.6	633.7	659.0	682.4	705.8	724.0	742.1	750.5
67.5°	600.3	589.1	582.1	575.1	599.7	624.3	642.3	660.4	678.4	696.5	703.4
70°	549.7	551.1	546.0	540.7	558.8	576.8	599.9	623.1	633.1	643.1	647.0
72.5°	496.6	496.7	494.3	491.7	509.6	527.4	542.6	557.9	567.3	576.8	581.2
75°	436.5	438.5	436.9	435.4	450.6	465.9	479.9	493.8	504.1	514.2	516.9
77.5°	380.7	385.5	383.7	381.8	391.1	400.4	406.4	412.3	423.9	435.6	437.8
80°	314.8	321.7	321.2	320.5	325.0	329.4	330.9	332.5	341.1	349.6	352.0
82.5°	245.4	256.2	264.2	272.0	274.9	277.8	265.0	252.2	259.0	265.8	271.1
85°	178.7	198.6	213.1	227.7	219.1	210.6	177.5	144.4	157.5	170.6	179.4
87.5°	110.3	130.7	138.1	145.6	134.1	122.5	98.3	74.0	84.6	95.3	103.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8
2.5°	1123.0	1121.7	1120.4	1123.2	1126.0	1129.8	1126.0	1123.2	1120.4	1121.7	1123.0
5°	1064.3	1062.2	1060.1	1060.8	1061.3	1061.0	1061.3	1060.8	1060.1	1062.2	1064.3
7.5°	1048.8	1048.5	1048.2	1049.2	1050.0	1045.9	1050.0	1049.2	1048.2	1048.5	1048.8
10°	1065.9	1069.2	1072.5	1075.1	1077.9	1076.2	1077.9	1075.1	1072.5	1069.2	1065.9
12.5°	1098.5	1102.7	1106.7	1108.2	1109.7	1106.5	1109.7	1108.2	1106.7	1102.7	1098.5
15°	1135.0	1134.6	1134.4	1133.0	1131.5	1129.8	1131.5	1133.0	1134.4	1134.6	1135.0
17.5°	1159.8	1156.4	1153.1	1151.4	1149.8	1151.9	1149.8	1151.4	1153.1	1156.4	1159.8
20°	1164.7	1163.0	1161.2	1161.1	1161.0	1160.0	1161.0	1161.1	1161.2	1163.0	1164.7
22.5°	1151.7	1146.2	1140.8	1143.2	1145.5	1153.1	1145.5	1143.2	1140.8	1146.2	1151.7
25°	1123.7	1121.0	1118.3	1117.6	1116.9	1113.5	1116.9	1117.6	1118.3	1121.0	1123.7
27.5°	1096.2	1093.9	1091.6	1094.6	1097.4	1099.5	1097.4	1094.6	1091.6	1093.9	1096.2
30°	1065.1	1065.6	1065.9	1070.5	1075.0	1083.2	1075.0	1070.5	1065.9	1065.6	1065.1
32.5°	1048.0	1043.3	1038.7	1040.2	1041.8	1048.2	1041.8	1040.2	1038.7	1043.3	1048.0
35°	1017.4	1017.4	1017.4	1021.2	1024.9	1033.1	1024.9	1021.2	1017.4	1017.4	1017.4
37.5°	987.1	990.9	994.7	996.3	997.9	998.1	997.9	996.3	994.7	990.9	987.1
40°	965.0	965.4	965.8	963.4	961.1	962.0	961.1	963.4	965.8	965.4	965.0
42.5°	931.5	935.7	939.9	941.0	942.0	944.6	942.0	941.0	939.9	935.7	931.5
45°	904.7	906.8	909.0	908.5	907.9	905.0	907.9	908.5	909.0	906.8	904.7
47.5°	884.0	885.9	887.7	889.2	890.8	893.3	890.8	889.2	887.7	885.9	884.0
50°	877.6	877.0	876.4	871.8	867.1	865.4	867.1	871.8	876.4	877.0	877.6
52.5°	867.9	869.4	871.0	868.3	865.6	866.5	865.6	868.3	871.0	869.4	867.9
55°	855.8	857.5	859.3	854.2	849.1	845.6	849.1	854.2	859.3	857.5	855.8
57.5°	850.5	847.3	844.2	840.2	836.3	837.4	836.3	840.2	844.2	847.3	850.5
60°	829.3	825.5	821.7	813.1	804.6	797.8	804.6	813.1	821.7	825.5	829.3
62.5°	799.6	796.0	792.2	782.6	772.8	760.5	772.8	782.6	792.2	796.0	799.6
65°	758.8	752.9	746.8	737.1	727.4	720.9	727.4	737.1	746.8	752.9	758.8
67.5°	710.2	703.6	697.1	684.3	671.4	661.5	671.4	684.3	697.1	703.6	710.2
70°	650.8	644.5	638.3	630.1	621.9	615.0	621.9	630.1	638.3	644.5	650.8
72.5°	585.6	578.6	571.6	560.7	549.7	542.7	549.7	560.7	571.6	578.6	585.6
75°	519.5	510.7	502.0	490.6	479.3	469.4	479.3	490.6	502.0	510.7	519.5
77.5°	440.0	433.4	426.9	416.3	405.5	396.0	405.5	416.3	426.9	433.4	440.0
80°	354.3	351.2	348.0	339.2	330.5	318.0	330.5	339.2	348.0	351.2	354.3
82.5°	276.3	274.9	273.5	266.1	258.8	248.1	258.8	266.1	273.5	274.9	276.3
85°	188.1	189.6	191.0	185.9	180.8	172.4	180.8	185.9	191.0	189.6	188.1
87.5°	112.7	107.0	101.3	89.7	78.0	65.2	78.0	89.7	101.3	107.0	112.7
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8
2.5°	1126.8	1130.7	1137.4	1144.3	1147.8	1151.3	1156.0	1160.6	1165.6	1170.5	1175.6
5°	1069.2	1074.1	1080.4	1086.7	1094.8	1103.0	1110.5	1118.1	1130.2	1142.3	1156.3
7.5°	1052.0	1055.2	1056.6	1058.1	1065.8	1073.6	1084.4	1095.4	1108.8	1122.2	1138.7
10°	1066.2	1066.3	1068.0	1069.8	1075.1	1080.6	1090.4	1100.4	1113.5	1126.5	1143.8
12.5°	1100.8	1103.0	1111.4	1119.9	1119.4	1119.0	1128.8	1138.8	1148.3	1157.7	1165.7
15°	1138.4	1141.6	1151.8	1161.8	1171.6	1181.2	1183.9	1186.6	1183.4	1180.4	1177.6
17.5°	1167.3	1174.9	1191.0	1207.2	1218.7	1230.2	1224.3	1218.5	1204.5	1190.6	1181.5
20°	1176.6	1188.6	1206.6	1224.7	1235.7	1246.8	1237.0	1227.4	1200.9	1174.6	1153.1
22.5°	1164.6	1177.5	1197.1	1216.5	1222.8	1229.0	1220.5	1211.9	1184.4	1156.8	1130.3
25°	1137.9	1152.1	1172.4	1192.7	1194.0	1195.6	1183.4	1171.5	1144.9	1118.3	1092.4
27.5°	1109.5	1122.8	1137.9	1153.1	1151.2	1149.3	1135.7	1122.2	1098.9	1075.6	1053.6
30°	1074.1	1083.2	1092.7	1102.4	1097.6	1092.7	1078.7	1064.8	1044.5	1024.0	1009.0
32.5°	1051.5	1055.0	1056.5	1058.1	1050.7	1043.3	1030.1	1016.8	1002.2	987.7	981.4
35°	1016.1	1014.7	1012.8	1011.0	996.7	982.4	970.3	958.3	951.7	945.2	945.5
37.5°	982.3	977.4	966.8	956.2	941.3	926.5	916.0	905.6	901.4	897.1	901.2
40°	954.0	943.2	923.5	903.8	889.8	875.9	866.4	857.0	856.5	856.1	861.9
42.5°	921.9	912.2	890.3	868.3	847.2	826.0	818.1	810.0	811.7	813.2	816.0
45°	892.7	880.7	855.6	830.4	812.0	793.7	783.7	773.6	771.5	769.3	775.5
47.5°	871.3	858.6	834.0	809.5	787.1	764.6	754.5	744.2	740.7	737.3	740.5
50°	860.1	842.7	816.5	790.2	770.9	751.5	739.8	728.2	718.4	708.4	710.3
52.5°	851.2	834.2	805.5	776.9	758.7	740.5	731.5	722.7	708.1	693.6	698.7
55°	839.5	823.2	797.7	772.2	752.2	732.0	721.2	710.5	692.8	674.9	691.5
57.5°	836.5	822.5	796.5	770.4	750.1	729.7	711.0	692.4	674.9	657.5	689.0
60°	819.7	810.0	785.9	761.7	742.5	723.3	696.6	669.9	659.8	649.7	686.5
62.5°	792.7	785.9	763.9	741.9	719.9	697.9	669.5	640.8	642.0	643.1	674.4
65°	750.5	742.1	724.0	705.8	682.4	659.0	633.7	608.6	617.5	626.6	647.0
67.5°	703.4	696.5	678.4	660.4	642.3	624.3	599.7	575.1	582.1	589.1	600.3
70°	647.0	643.1	633.1	623.1	599.9	576.8	558.8	540.7	546.0	551.1	549.7
72.5°	581.2	576.8	567.3	557.9	542.6	527.4	509.6	491.7	494.3	496.7	496.6
75°	516.9	514.2	504.1	493.8	479.9	465.9	450.6	435.4	436.9	438.5	436.5
77.5°	437.8	435.6	423.9	412.3	406.4	400.4	391.1	381.8	383.7	385.5	380.7
80°	352.0	349.6	341.1	332.5	330.9	329.4	325.0	320.5	321.2	321.7	314.8
82.5°	271.1	265.8	259.0	252.2	265.0	277.8	274.9	272.0	264.2	256.2	245.4
85°	179.4	170.6	157.5	144.4	177.5	210.6	219.1	227.7	213.1	198.6	178.7
87.5°	103.9	95.3	84.6	74.0	98.3	122.5	134.1	145.6	138.1	130.7	110.3
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8
2.5°	1180.8	1190.9	1197.3	1202.9	1208.4	1216.1	1223.9	1228.2	1232.5	1233.6	1236.9
5°	1170.3	1182.8	1196.1	1211.2	1226.2	1244.0	1261.9	1281.1	1300.0	1313.4	1323.1
7.5°	1155.1	1175.8	1196.7	1218.9	1241.0	1269.8	1298.6	1329.0	1359.4	1396.4	1440.1
10°	1161.2	1193.8	1213.0	1237.6	1262.3	1302.4	1342.7	1394.3	1446.0	1488.9	1525.2
12.5°	1173.8	1187.4	1214.2	1249.8	1285.6	1336.1	1386.9	1449.3	1511.8	1572.5	1628.2
15°	1174.9	1182.8	1210.7	1251.6	1292.6	1356.9	1421.2	1503.5	1585.7	1662.3	1730.2
17.5°	1172.2	1159.5	1186.8	1234.8	1282.9	1366.7	1450.3	1547.8	1645.1	1743.2	1842.6
20°	1131.4	1125.7	1152.5	1210.6	1268.6	1374.1	1479.4	1597.7	1715.8	1822.1	1922.3
22.5°	1103.8	1080.8	1107.4	1173.0	1238.7	1363.6	1488.5	1625.3	1762.2	1876.4	1981.2
25°	1066.3	1043.0	1065.1	1132.1	1199.1	1341.3	1483.6	1642.8	1802.0	1935.6	2060.9
27.5°	1031.7	1009.2	1033.1	1107.4	1181.6	1346.9	1512.0	1691.3	1870.5	1999.3	2112.2
30°	993.8	986.5	1012.4	1090.4	1168.4	1350.0	1531.6	1732.5	1933.4	2070.6	2186.7
32.5°	975.1	967.9	991.2	1064.4	1137.7	1334.5	1531.3	1759.3	1987.2	2136.6	2261.8
35°	945.9	948.1	965.8	1033.0	1100.1	1312.5	1524.8	1783.9	2042.9	2200.6	2323.6
37.5°	905.3	910.2	923.0	987.1	1051.1	1279.8	1508.3	1803.0	2097.6	2284.9	2431.9
40°	867.7	871.2	875.6	937.5	999.3	1248.1	1496.9	1846.3	2195.7	2421.1	2582.7
42.5°	818.8	828.1	836.5	895.8	955.1	1221.8	1488.5	1887.5	2286.5	2570.1	2792.9
45°	781.7	782.1	806.6	866.3	925.9	1200.7	1475.4	1944.0	2412.7	2811.1	3153.4
47.5°	743.8	758.2	796.9	850.9	905.0	1178.8	1452.6	2034.1	2615.7	3214.7	3756.7
50°	712.3	739.6	796.4	845.8	895.4	1170.8	1446.3	2193.4	2940.6	3792.3	4554.6
52.5°	703.8	740.7	797.2	835.6	873.8	1150.6	1427.3	2315.4	3203.5	4296.0	5288.3
55°	708.1	772.8	806.2	820.4	834.5	1109.0	1383.7	2347.3	3311.0	4634.3	5924.8
57.5°	720.7	793.7	793.2	802.0	810.9	1046.9	1282.9	2197.9	3113.0	4683.6	6383.7
60°	723.3	766.4	740.7	767.4	794.1	930.6	1067.1	1872.6	2677.9	4392.3	6305.1
62.5°	705.6	720.9	690.9	712.2	733.5	798.3	863.0	1556.2	2249.3	3910.4	5792.6
65°	667.4	658.6	650.8	655.5	660.2	673.0	685.8	1266.0	1846.3	3375.3	5155.5
67.5°	611.5	591.1	587.9	565.3	542.7	531.2	519.7	996.0	1472.4	2812.4	4422.9
70°	548.2	529.9	513.6	480.1	446.7	430.9	415.2	773.8	1132.3	2304.6	3792.8
72.5°	496.6	476.9	441.4	403.6	365.7	352.0	338.3	583.7	829.3	1778.3	3041.0
75°	434.5	414.1	369.0	333.8	298.7	288.7	278.6	431.6	584.7	1279.8	2237.4
77.5°	376.0	354.7	301.7	269.7	237.8	232.9	228.0	318.0	407.9	881.4	1551.4
80°	307.8	283.0	235.9	209.2	182.6	179.2	175.9	219.5	263.2	507.3	855.5
82.5°	234.6	207.9	174.1	153.9	133.7	131.7	129.9	147.8	165.6	270.6	423.4
85°	158.6	131.6	110.6	98.0	85.3	84.3	83.3	88.1	92.9	122.3	166.6
87.5°	89.9	57.1	45.7	39.4	32.8	34.0	35.2	37.0	38.7	46.6	60.0
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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8
2.5°	1242.2	1247.4	1249.6	1251.8	1253.9	1256.1	1257.8	1259.5	1255.5	1259.5	1257.8
5°	1339.4	1355.7	1369.8	1383.9	1394.6	1405.2	1410.4	1415.8	1424.4	1415.8	1410.4
7.5°	1462.4	1484.8	1515.4	1546.1	1567.0	1587.7	1596.8	1605.9	1608.4	1605.9	1596.8
10°	1582.2	1639.3	1673.2	1707.2	1732.0	1756.9	1778.3	1799.7	1823.9	1799.7	1778.3
12.5°	1693.2	1758.1	1807.0	1855.9	1887.4	1918.8	1939.9	1961.1	1968.3	1961.1	1939.9
15°	1801.1	1871.9	1917.8	1963.7	1988.1	2012.6	2023.1	2033.6	2046.4	2033.6	2023.1
17.5°	1895.7	1948.8	1979.1	2009.3	2010.4	2011.4	1998.3	1985.1	1982.3	1985.1	1998.3
20°	1966.2	2010.3	2010.9	2011.4	1985.2	1959.0	1936.2	1913.5	1903.1	1913.5	1936.2
22.5°	2011.3	2041.5	2010.4	1979.4	1921.2	1862.9	1829.9	1796.8	1787.8	1796.8	1829.9
25°	2065.6	2070.3	2007.0	1943.9	1862.6	1781.4	1739.0	1696.5	1686.5	1696.5	1739.0
27.5°	2097.5	2082.7	1986.9	1890.9	1795.5	1700.2	1651.9	1603.6	1589.8	1603.6	1651.9
30°	2133.5	2080.1	1956.6	1833.0	1737.0	1641.1	1600.6	1560.2	1547.9	1560.2	1600.6
32.5°	2173.1	2084.2	1951.8	1819.3	1752.4	1685.6	1674.6	1663.5	1655.0	1663.5	1674.6
35°	2223.9	2124.2	2024.4	1924.7	1934.8	1945.0	1980.9	2016.9	2016.1	2016.9	1980.9
37.5°	2329.9	2227.8	2211.3	2194.9	2323.6	2452.3	2555.6	2658.8	2712.6	2658.8	2555.6
40°	2511.1	2439.5	2499.2	2558.8	2737.7	2916.6	3038.9	3161.2	3250.7	3161.2	3038.9
42.5°	2752.2	2711.4	2786.1	2860.7	3057.1	3253.2	3420.0	3586.6	3711.9	3586.6	3420.0
45°	3111.4	3069.2	3104.9	3140.3	3386.0	3631.8	3892.9	4154.0	4374.6	4154.0	3892.9
47.5°	3658.9	3561.1	3531.2	3501.3	3832.4	4163.6	4545.1	4926.9	5153.8	4926.9	4545.1
50°	4401.6	4248.8	4109.3	3969.9	4437.0	4904.3	5460.1	6015.9	6249.8	6015.9	5460.1
52.5°	5148.0	5007.6	4762.4	4517.3	5070.2	5623.2	6344.9	7066.7	7291.0	7066.7	6344.9
55°	5983.5	6042.2	5710.5	5378.8	5992.3	6605.6	7530.2	8454.8	8850.5	8454.8	7530.2
57.5°	6905.7	7427.9	7073.3	6718.9	7291.5	7864.0	8963.0	10062.2	10724.5	10062.2	8963.0
60°	7351.5	8397.7	8240.4	8083.0	8572.2	9061.3	10253.8	11446.3	12220.0	11446.3	10253.8
62.5°	6931.3	8070.2	8114.6	8158.9	8812.2	9465.5	10543.5	11621.6	12306.2	11621.6	10543.5
65°	6227.4	7299.2	7365.0	7430.8	8186.1	8941.4	9998.8	11056.2	11608.5	11056.2	9998.8
67.5°	5537.6	6652.2	6691.9	6731.7	7422.0	8112.4	9064.1	10015.9	10333.2	10015.9	9064.1
70°	4854.6	5916.4	6003.4	6090.4	6693.3	7295.9	8000.7	8705.4	8886.6	8705.4	8000.7
72.5°	4108.9	5176.8	5309.9	5442.9	5884.5	6326.1	6818.8	7311.5	7294.5	7311.5	6818.8
75°	3238.1	4238.9	4422.9	4607.0	4877.8	5148.5	5408.7	5669.0	5595.2	5669.0	5408.7
77.5°	2360.7	3170.1	3364.9	3559.9	3750.9	3941.9	4125.4	4308.8	4192.9	4308.8	4125.4
80°	1432.1	2008.9	2228.2	2447.6	2647.2	2846.8	2941.4	3036.0	2840.7	3036.0	2941.4
82.5°	745.4	1067.4	1285.7	1503.9	1706.2	1908.4	1967.6	2026.8	1840.2	2026.8	1967.6
85°	328.2	489.8	652.7	815.5	974.9	1134.2	1140.2	1146.4	1012.1	1146.4	1140.2
87.5°	126.0	192.2	276.0	359.9	445.5	531.1	528.1	524.9	433.3	524.9	528.1
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):

	330°	335°	340°	345°	350°	355°	360°
0°	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8	1186.8
2.5°	1256.1	1253.9	1251.8	1249.6	1247.4	1242.2	1236.9
5°	1405.2	1394.6	1383.9	1369.8	1355.7	1339.4	1323.1
7.5°	1587.7	1567.0	1546.1	1515.4	1484.8	1462.4	1440.1
10°	1756.9	1732.0	1707.2	1673.2	1639.3	1582.2	1525.2
12.5°	1918.8	1887.4	1855.9	1807.0	1758.1	1693.2	1628.2
15°	2012.6	1988.1	1963.7	1917.8	1871.9	1801.1	1730.2
17.5°	2011.4	2010.4	2009.3	1979.1	1948.8	1895.7	1842.6
20°	1959.0	1985.2	2011.4	2010.9	2010.3	1966.2	1922.3
22.5°	1862.9	1921.2	1979.4	2010.4	2041.5	2011.3	1981.2
25°	1781.4	1862.6	1943.9	2007.0	2070.3	2065.6	2060.9
27.5°	1700.2	1795.5	1890.9	1986.9	2082.7	2097.5	2112.2
30°	1641.1	1737.0	1833.0	1956.6	2080.1	2133.5	2186.7
32.5°	1685.6	1752.4	1819.3	1951.8	2084.2	2173.1	2261.8
35°	1945.0	1934.8	1924.7	2024.4	2124.2	2223.9	2323.6
37.5°	2452.3	2323.6	2194.9	2211.3	2227.8	2329.9	2431.9
40°	2916.6	2737.7	2558.8	2499.2	2439.5	2511.1	2582.7
42.5°	3253.2	3057.1	2860.7	2786.1	2711.4	2752.2	2792.9
45°	3631.8	3386.0	3140.3	3104.9	3069.2	3111.4	3153.4
47.5°	4163.6	3832.4	3501.3	3531.2	3561.1	3658.9	3756.7
50°	4904.3	4437.0	3969.9	4109.3	4248.8	4401.6	4554.6
52.5°	5623.2	5070.2	4517.3	4762.4	5007.6	5148.0	5288.3
55°	6605.6	5992.3	5378.8	5710.5	6042.2	5983.5	5924.8
57.5°	7864.0	7291.5	6718.9	7073.3	7427.9	6905.7	6383.7
60°	9061.3	8572.2	8083.0	8240.4	8397.7	7351.5	6305.1
62.5°	9465.5	8812.2	8158.9	8114.6	8070.2	6931.3	5792.6
65°	8941.4	8186.1	7430.8	7365.0	7299.2	6227.4	5155.5
67.5°	8112.4	7422.0	6731.7	6691.9	6652.2	5537.6	4422.9
70°	7295.9	6693.3	6090.4	6003.4	5916.4	4854.6	3792.8
72.5°	6326.1	5884.5	5442.9	5309.9	5176.8	4108.9	3041.0
75°	5148.5	4877.8	4607.0	4422.9	4238.9	3238.1	2237.4
77.5°	3941.9	3750.9	3559.9	3364.9	3170.1	2360.7	1551.4
80°	2846.8	2647.2	2447.6	2228.2	2008.9	1432.1	855.5
82.5°	1908.4	1706.2	1503.9	1285.7	1067.4	745.4	423.4
85°	1134.2	974.9	815.5	652.7	489.8	328.2	166.6
87.5°	531.1	445.5	359.9	276.0	192.2	126.0	60.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)