

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: LUMARK

Report Number: P960814

Luminaire Tested: **NAV-SB1D-727-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-727-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9643.2 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

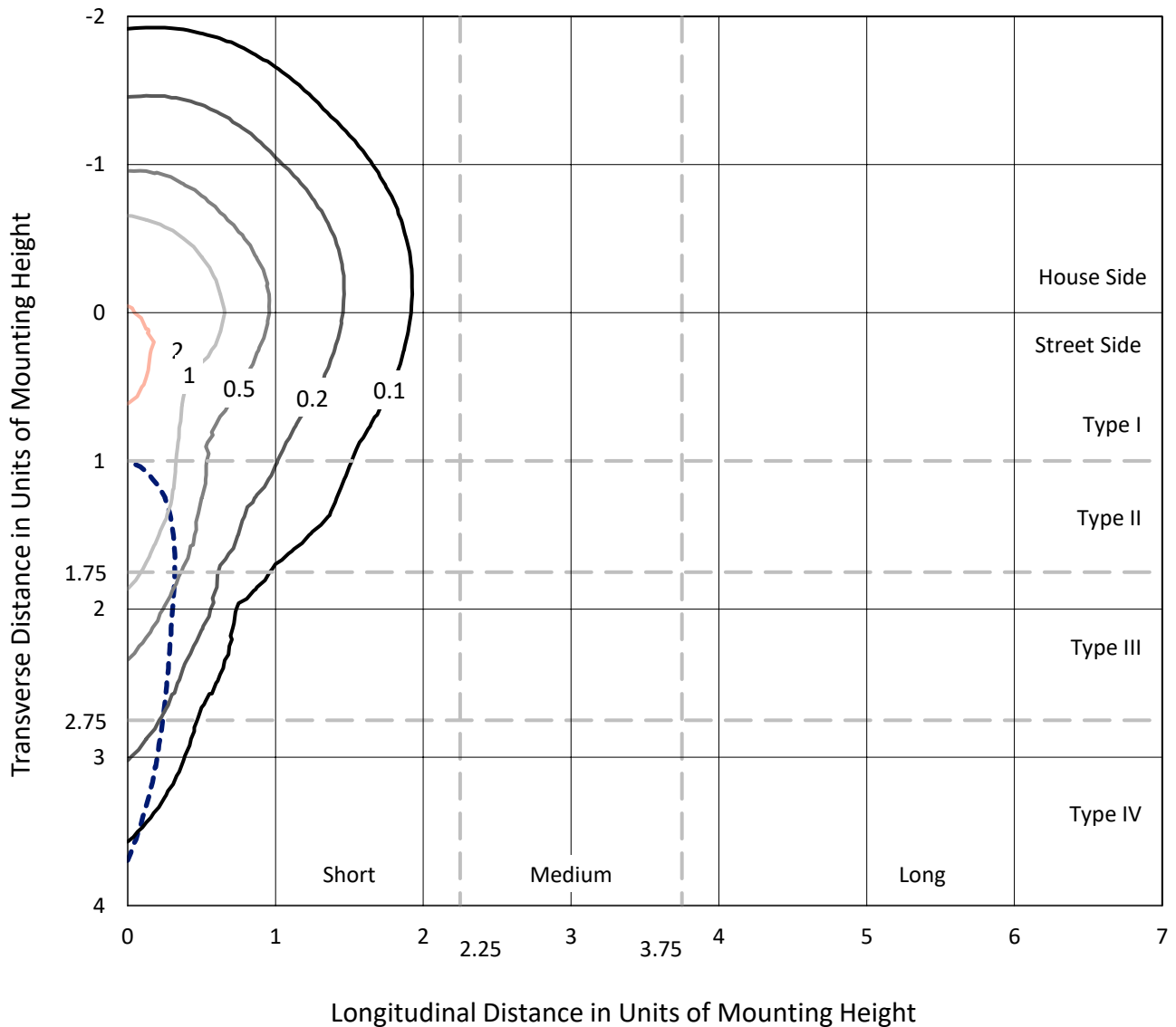
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

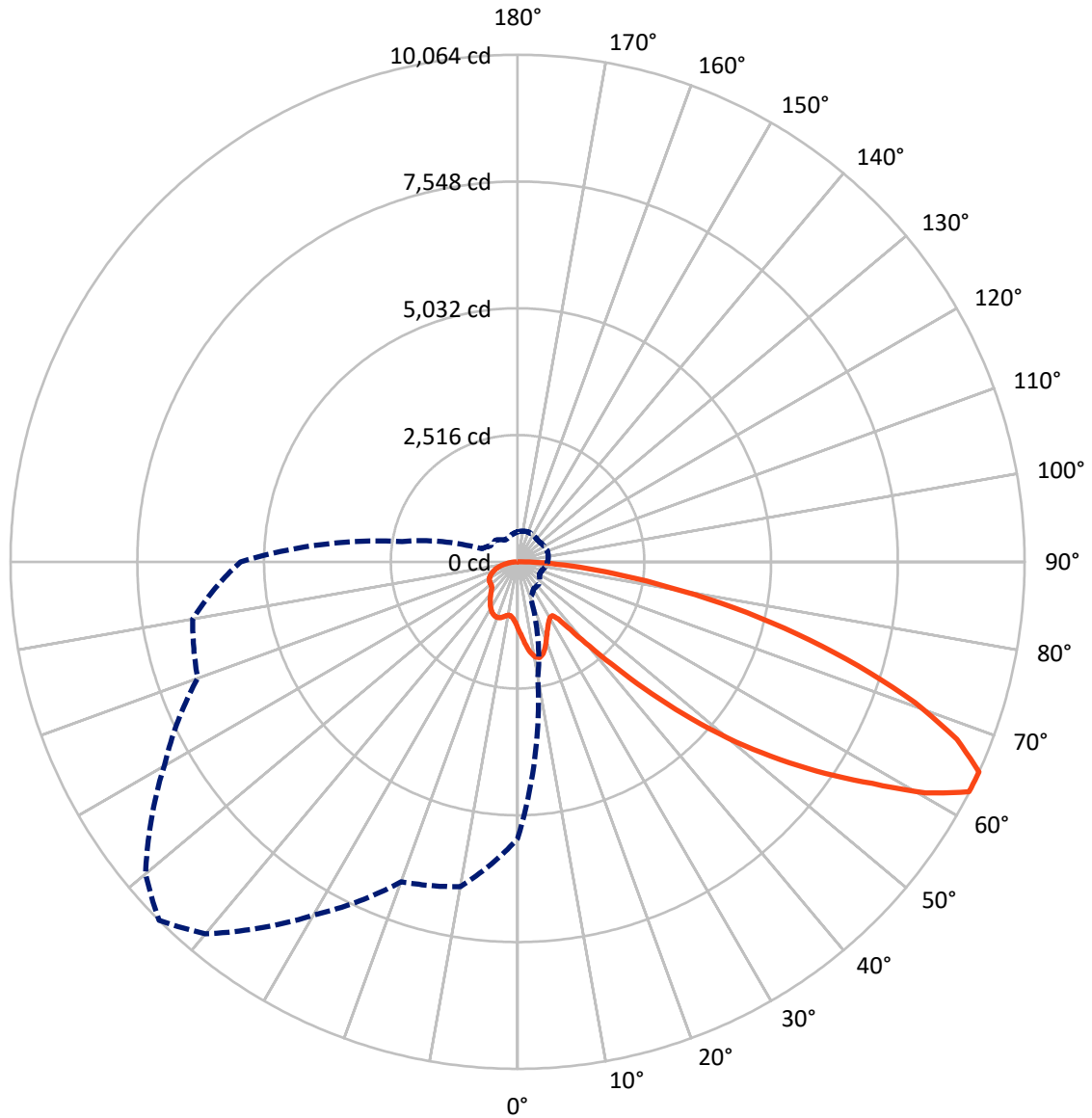
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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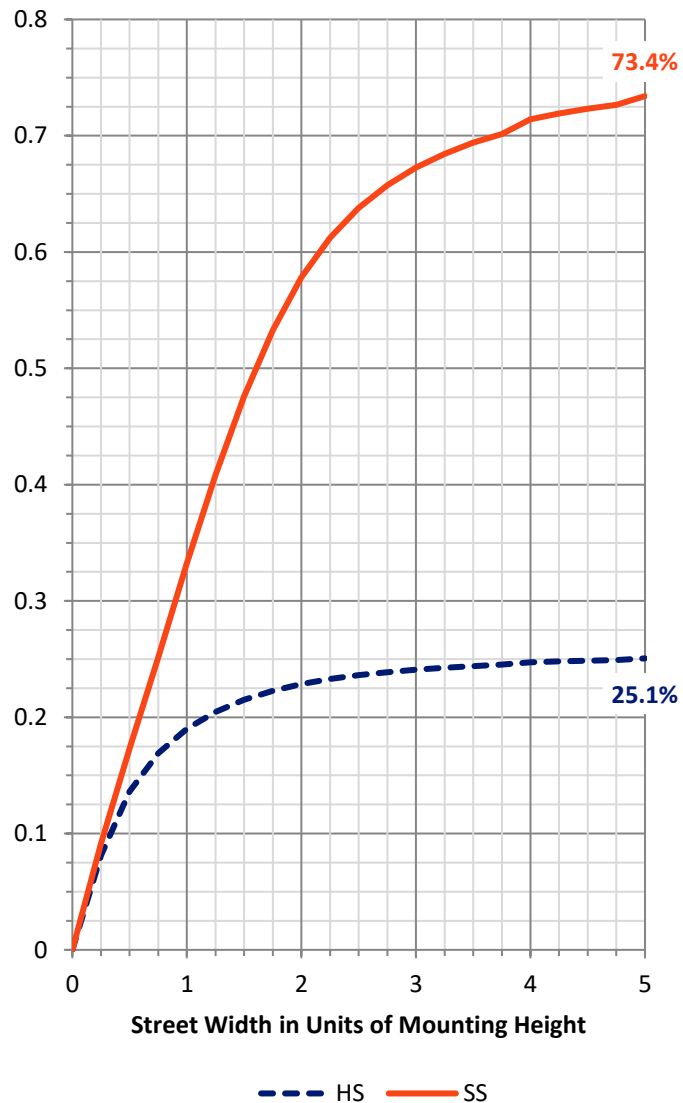
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2450.8	0.0	2450.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	7192.4	0.0	7192.4
	% Fixture	74.6	0.0	74.6
Total	Lumens	9643.2	0.0	9643.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.4
10°-20°	412.9	4.3
20°-30°	637.8	6.6
30°-40°	808.3	8.4
40°-50°	1219.1	12.6
50°-60°	1969.7	20.4
60°-70°	2455.5	25.5
70°-80°	1610.2	16.7
80°-90°	398.1	4.1
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°	9643.2	100.0
0°-180°	9643.2	100.0

Coefficient of Utilization



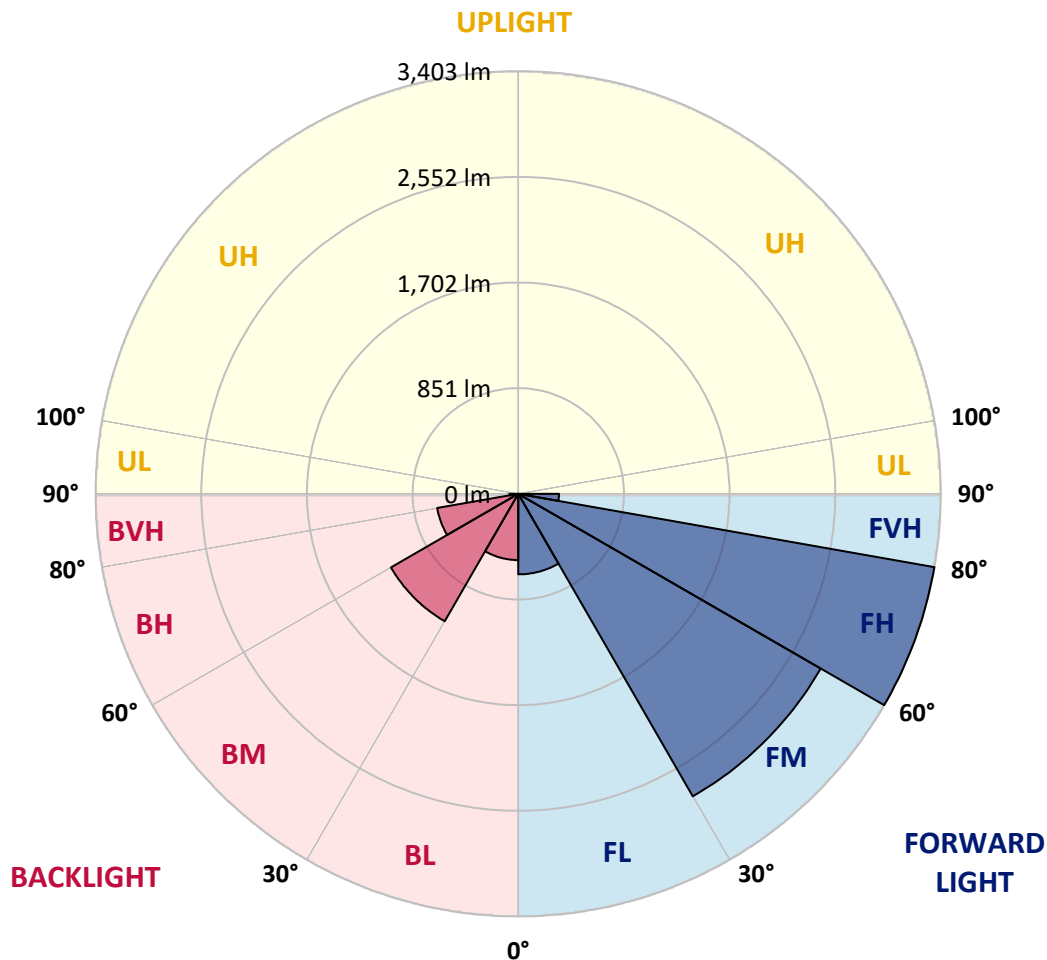
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.6	6.7			
FM (30°-60°)	2812.7	29.2			
FH (60°-80°)	3403.1	35.3			G2/5000
FVH (80°-90°)	327.9	3.4			G3/500
BL (0°-30°)	533.7	5.5	B2/1000		
BM (30°-60°)	1184.4	12.3	B2/2500		
BH (60°-80°)	662.6	6.9	B2/1000		G2/1000
BVH (80°-90°)	70.1	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
2.5°	1426.0	1415.1	1404.1	1392.5	1380.9	1369.2	1357.5	1346.2	1335.1	1324.2	1312.2
5°	1533.4	1509.2	1485.0	1460.9	1436.8	1412.6	1388.4	1365.7	1343.1	1321.7	1300.6
7.5°	1641.2	1601.4	1561.5	1524.7	1487.8	1451.9	1416.0	1384.5	1352.9	1323.7	1296.4
10°	1723.9	1673.5	1623.1	1574.4	1525.7	1482.1	1438.6	1401.3	1363.8	1327.8	1298.5
12.5°	1774.6	1719.1	1663.8	1608.6	1553.5	1502.0	1450.7	1408.5	1366.1	1328.3	1301.0
15°	1805.3	1747.6	1689.8	1630.0	1570.2	1511.0	1451.8	1402.8	1353.9	1312.0	1290.2
17.5°	1822.7	1764.1	1705.5	1640.2	1574.9	1506.2	1437.6	1378.7	1319.8	1270.6	1257.1
20°	1841.7	1780.8	1720.0	1648.2	1576.4	1493.2	1410.0	1337.0	1264.0	1206.7	1203.1
22.5°	1863.9	1801.6	1739.4	1659.0	1578.5	1477.2	1376.0	1288.1	1200.3	1135.0	1142.0
25°	1892.4	1831.4	1770.5	1678.5	1586.6	1461.4	1336.5	1233.5	1130.7	1063.7	1082.5
27.5°	1931.0	1872.9	1814.8	1709.1	1603.3	1451.0	1298.6	1183.6	1068.7	1007.8	1030.6
30°	1983.2	1927.0	1870.9	1748.6	1626.4	1446.0	1265.6	1141.8	1018.1	967.1	985.0
32.5°	2044.8	1989.1	1933.6	1789.9	1646.2	1439.9	1233.5	1105.9	978.3	937.1	945.0
35°	2119.6	2066.3	2013.1	1836.9	1660.7	1428.4	1196.2	1070.5	944.9	910.6	907.2
37.5°	2245.5	2177.6	2109.8	1889.6	1669.4	1408.7	1148.0	1028.9	909.8	879.8	867.7
40°	2435.8	2336.9	2238.0	1956.4	1674.8	1381.6	1088.4	979.3	870.1	842.9	824.3
42.5°	2688.2	2545.4	2402.6	2043.8	1685.2	1353.6	1022.1	924.4	826.8	801.7	778.3
45°	2999.9	2807.3	2614.7	2159.0	1703.3	1327.6	951.9	866.2	780.5	755.1	732.5
47.5°	3389.6	3118.6	2847.4	2281.6	1715.7	1306.2	896.5	820.2	743.9	711.1	691.6
50°	3900.4	3491.9	3083.1	2395.4	1707.6	1282.7	857.8	789.7	721.4	678.2	655.6
52.5°	4486.9	3883.9	3280.9	2469.2	1657.5	1243.2	828.9	769.5	710.1	660.5	628.8
55°	5111.3	4231.6	3352.0	2453.0	1554.0	1177.6	801.3	754.8	708.4	662.3	614.6
57.5°	5679.1	4477.9	3276.8	2338.4	1400.0	1085.3	770.4	737.6	704.7	664.0	606.0
60°	6022.3	4539.5	3056.7	2125.1	1193.6	965.2	736.9	711.1	685.3	658.5	598.0
62.5°	5848.0	4280.3	2712.5	1836.8	961.0	821.6	682.2	665.1	648.0	644.7	588.7
65°	5499.2	3913.4	2327.7	1542.6	757.6	692.5	627.4	619.3	611.2	611.6	568.9
67.5°	5031.8	3476.9	1922.0	1254.4	586.8	568.4	549.8	554.3	558.8	557.7	533.6
70°	4470.3	3000.6	1530.8	987.7	444.4	449.8	455.0	476.0	496.9	496.9	489.0
72.5°	3801.2	2484.2	1167.3	755.0	342.9	358.7	374.7	404.5	434.1	439.1	439.2
75°	2954.8	1892.4	829.8	548.0	266.2	280.6	295.1	328.4	361.7	384.7	382.7
77.5°	2111.2	1324.4	537.7	371.4	205.0	214.7	224.7	257.0	289.3	327.2	326.2
80°	1381.7	853.3	324.9	239.2	153.6	157.7	161.8	189.2	216.5	261.8	261.7
82.5°	803.2	493.8	184.6	147.2	109.8	110.5	111.3	131.5	151.6	190.3	192.4
85°	353.4	222.1	91.0	78.6	66.4	66.0	65.6	80.4	95.1	123.9	126.7
87.5°	109.4	72.8	36.1	32.6	29.1	28.7	28.4	34.4	40.5	52.4	56.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
2.5°	1302.4	1292.7	1283.9	1275.1	1267.4	1259.7	1252.0	1244.4	1238.4	1232.4	1227.5
5°	1282.2	1263.7	1248.2	1232.8	1219.1	1205.5	1193.2	1180.8	1171.3	1161.6	1155.0
7.5°	1271.9	1247.4	1227.0	1206.7	1189.5	1172.4	1157.2	1142.1	1130.8	1119.4	1111.5
10°	1272.6	1246.7	1226.4	1206.0	1187.6	1169.0	1152.0	1135.0	1121.5	1107.8	1099.0
12.5°	1279.8	1258.8	1245.2	1231.7	1217.2	1202.7	1185.1	1167.5	1150.3	1132.9	1121.5
15°	1280.0	1270.0	1271.8	1273.6	1269.9	1266.1	1250.8	1235.4	1210.8	1186.2	1168.8
17.5°	1260.8	1264.4	1286.7	1308.8	1320.6	1332.4	1320.0	1307.7	1275.1	1242.5	1216.8
20°	1220.5	1237.8	1276.2	1314.9	1339.5	1364.2	1358.5	1352.7	1315.5	1278.2	1246.7
22.5°	1167.5	1193.1	1237.1	1281.1	1313.2	1345.3	1348.8	1352.2	1316.6	1280.9	1248.7
25°	1112.0	1141.5	1181.1	1220.7	1252.2	1283.9	1295.7	1307.5	1278.3	1249.1	1220.3
27.5°	1059.1	1087.6	1120.1	1152.6	1177.9	1203.2	1216.5	1229.6	1208.8	1188.1	1165.7
30°	1007.6	1030.3	1057.3	1084.2	1105.3	1126.3	1137.0	1147.7	1131.8	1116.0	1100.0
32.5°	958.4	971.8	993.3	1014.9	1035.0	1055.2	1067.1	1079.0	1064.5	1049.8	1037.1
35°	910.9	914.6	931.1	947.4	967.4	987.4	1001.6	1015.9	1005.5	995.2	983.4
37.5°	863.6	859.6	871.4	883.0	903.0	922.9	940.5	958.2	953.4	948.5	937.8
40°	815.1	805.9	814.4	822.9	842.1	861.3	881.6	901.9	903.1	904.2	895.0
42.5°	766.1	753.9	760.8	767.7	786.0	804.2	826.0	848.0	853.8	859.7	851.9
45°	720.6	708.7	714.5	720.4	737.7	755.0	777.7	800.4	808.8	817.2	810.2
47.5°	681.6	671.7	677.1	682.6	699.6	716.5	738.8	761.3	770.9	780.5	775.6
50°	646.8	638.0	646.6	655.1	671.1	687.1	707.0	727.1	739.5	751.9	751.6
52.5°	620.0	611.4	624.2	637.0	651.7	666.4	685.0	703.8	718.4	733.1	735.7
55°	600.8	586.9	605.2	623.4	639.2	655.0	671.4	687.7	703.3	718.8	722.5
57.5°	585.9	565.7	585.4	605.0	623.5	642.1	658.3	674.4	690.1	705.8	709.6
60°	571.8	545.7	562.9	580.2	601.5	622.7	639.2	655.6	671.4	687.2	691.3
62.5°	556.0	523.4	534.2	545.2	570.0	594.8	612.3	630.0	644.4	658.9	662.8
65°	534.1	499.4	503.7	507.8	534.3	561.0	577.8	594.6	607.3	620.0	624.0
67.5°	504.8	475.9	474.6	473.2	497.7	522.3	538.2	554.1	565.1	576.2	580.0
70°	468.4	447.9	443.3	438.7	460.3	481.9	495.6	509.3	519.3	529.2	533.0
72.5°	425.2	411.0	404.4	397.7	414.6	431.6	444.0	456.4	466.2	475.9	480.3
75°	371.9	361.0	354.6	348.2	360.8	373.4	384.6	395.9	404.8	413.6	418.3
77.5°	317.4	308.7	302.3	295.7	306.0	316.2	326.0	335.6	344.9	354.1	358.5
80°	254.4	247.0	241.6	236.1	244.7	253.2	261.3	269.5	276.5	283.5	289.4
82.5°	188.9	185.3	181.4	177.6	176.9	176.2	173.3	170.5	185.5	200.6	210.4
85°	122.9	119.1	114.7	110.4	106.7	103.0	95.1	87.2	101.4	115.5	127.7
87.5°	54.4	52.9	52.1	51.2	51.1	50.9	45.0	38.9	44.8	50.7	55.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
2.5°	1222.7	1218.9	1215.2	1211.8	1208.3	1203.9	1208.3	1211.8	1215.2	1218.9	1222.7
5°	1148.3	1143.6	1138.9	1135.3	1131.6	1128.1	1131.6	1135.3	1138.9	1143.6	1148.3
7.5°	1103.5	1098.1	1092.8	1089.5	1086.3	1083.8	1086.3	1089.5	1092.8	1098.1	1103.5
10°	1090.0	1084.9	1079.7	1077.0	1074.3	1073.2	1074.3	1077.0	1079.7	1084.9	1090.0
12.5°	1110.0	1104.2	1098.6	1096.2	1093.9	1093.5	1093.9	1096.2	1098.6	1104.2	1110.0
15°	1151.4	1143.4	1135.5	1132.4	1129.3	1129.1	1129.3	1132.4	1135.5	1143.4	1151.4
17.5°	1191.2	1179.4	1167.5	1163.7	1159.7	1159.2	1159.7	1163.7	1167.5	1179.4	1191.2
20°	1215.3	1200.3	1185.1	1180.3	1175.4	1173.9	1175.4	1180.3	1185.1	1200.3	1215.3
22.5°	1216.3	1200.3	1184.3	1179.0	1173.6	1171.4	1173.6	1179.0	1184.3	1200.3	1216.3
25°	1191.6	1177.7	1164.0	1159.0	1153.9	1151.0	1153.9	1159.0	1164.0	1177.7	1191.6
27.5°	1143.4	1134.1	1124.7	1122.5	1120.2	1119.4	1120.2	1122.5	1124.7	1134.1	1143.4
30°	1083.9	1079.2	1074.4	1074.4	1074.4	1075.1	1074.4	1074.4	1074.4	1079.2	1083.9
32.5°	1024.3	1021.2	1018.0	1018.4	1019.0	1019.7	1019.0	1018.4	1018.0	1021.2	1024.3
35°	971.6	966.9	962.2	961.1	960.2	959.7	960.2	961.1	962.2	966.9	971.6
37.5°	926.8	918.2	909.7	905.2	900.7	898.1	900.7	905.2	909.7	918.2	926.8
40°	885.8	873.3	860.9	852.4	844.1	839.1	844.1	852.4	860.9	873.3	885.8
42.5°	844.2	828.6	813.1	800.8	788.6	780.5	788.6	800.8	813.1	828.6	844.2
45°	803.2	785.5	767.7	753.4	738.9	729.7	738.9	753.4	767.7	785.5	803.2
47.5°	770.8	755.0	739.2	725.9	712.6	703.8	712.6	725.9	739.2	755.0	770.8
50°	751.4	738.8	726.2	713.9	701.6	693.0	701.6	713.9	726.2	738.8	751.4
52.5°	738.4	728.2	717.9	706.8	695.9	688.0	695.9	706.8	717.9	728.2	738.4
55°	726.2	717.3	708.3	698.6	689.0	681.8	689.0	698.6	708.3	717.3	726.2
57.5°	713.3	704.3	695.2	685.6	676.0	668.6	676.0	685.6	695.2	704.3	713.3
60°	695.4	686.4	677.6	667.8	657.9	650.3	657.9	667.8	677.6	686.4	695.4
62.5°	666.7	658.7	650.7	640.3	630.0	620.7	630.0	640.3	650.7	658.7	666.7
65°	628.0	620.3	612.6	602.6	592.6	584.7	592.6	602.6	612.6	620.3	628.0
67.5°	583.8	576.8	569.8	560.5	551.0	544.0	551.0	560.5	569.8	576.8	583.8
70°	536.7	530.9	525.2	516.3	507.3	499.2	507.3	516.3	525.2	530.9	536.7
72.5°	484.8	480.0	475.3	466.7	458.2	450.3	458.2	466.7	475.3	480.0	484.8
75°	422.9	420.6	418.3	411.1	404.0	396.4	404.0	411.1	418.3	420.6	422.9
77.5°	362.8	359.7	356.3	349.0	341.8	335.8	341.8	349.0	356.3	359.7	362.8
80°	295.1	293.7	292.3	282.6	272.9	261.6	272.9	282.6	292.3	293.7	295.1
82.5°	220.4	219.8	219.0	210.8	202.6	195.4	202.6	210.8	219.0	219.8	220.4
85°	139.9	138.9	137.9	131.5	125.0	118.6	125.0	131.5	137.9	138.9	139.9
87.5°	60.7	59.4	58.1	54.8	51.5	48.4	51.5	54.8	58.1	59.4	60.7
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°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
2.5°	1227.5	1232.4	1238.4	1244.4	1252.0	1259.7	1267.4	1275.1	1283.9	1292.7	1302.4
5°	1155.0	1161.6	1171.3	1180.8	1193.2	1205.5	1219.1	1232.8	1248.2	1263.7	1282.2
7.5°	1111.5	1119.4	1130.8	1142.1	1157.2	1172.4	1189.5	1206.7	1227.0	1247.4	1271.9
10°	1099.0	1107.8	1121.5	1135.0	1152.0	1169.0	1187.6	1206.0	1226.4	1246.7	1272.6
12.5°	1121.5	1132.9	1150.3	1167.5	1185.1	1202.7	1217.2	1231.7	1245.2	1258.8	1279.8
15°	1168.8	1186.2	1210.8	1235.4	1250.8	1266.1	1269.9	1273.6	1271.8	1270.0	1280.0
17.5°	1216.8	1242.5	1275.1	1307.7	1320.0	1332.4	1320.6	1308.8	1286.7	1264.4	1260.8
20°	1246.7	1278.2	1315.5	1352.7	1358.5	1364.2	1339.5	1314.9	1276.2	1237.8	1220.5
22.5°	1248.7	1280.9	1316.6	1352.2	1348.8	1345.3	1313.2	1281.1	1237.1	1193.1	1167.5
25°	1220.3	1249.1	1278.3	1307.5	1295.7	1283.9	1252.2	1220.7	1181.1	1141.5	1112.0
27.5°	1165.7	1188.1	1208.8	1229.6	1216.5	1203.2	1177.9	1152.6	1120.1	1087.6	1059.1
30°	1100.0	1116.0	1131.8	1147.7	1137.0	1126.3	1105.3	1084.2	1057.3	1030.3	1007.6
32.5°	1037.1	1049.8	1064.5	1079.0	1067.1	1055.2	1035.0	1014.9	993.3	971.8	958.4
35°	983.4	995.2	1005.5	1015.9	1001.6	987.4	967.4	947.4	931.1	914.6	910.9
37.5°	937.8	948.5	953.4	958.2	940.5	922.9	903.0	883.0	871.4	859.6	863.6
40°	895.0	904.2	903.1	901.9	881.6	861.3	842.1	822.9	814.4	805.9	815.1
42.5°	851.9	859.7	853.8	848.0	826.0	804.2	786.0	767.7	760.8	753.9	766.1
45°	810.2	817.2	808.8	800.4	777.7	755.0	737.7	720.4	714.5	708.7	720.6
47.5°	775.6	780.5	770.9	761.3	738.8	716.5	699.6	682.6	677.1	671.7	681.6
50°	751.6	751.9	739.5	727.1	707.0	687.1	671.1	655.1	646.6	638.0	646.8
52.5°	735.7	733.1	718.4	703.8	685.0	666.4	651.7	637.0	624.2	611.4	620.0
55°	722.5	718.8	703.3	687.7	671.4	655.0	639.2	623.4	605.2	586.9	600.8
57.5°	709.6	705.8	690.1	674.4	658.3	642.1	623.5	605.0	585.4	565.7	585.9
60°	691.3	687.2	671.4	655.6	639.2	622.7	601.5	580.2	562.9	545.7	571.8
62.5°	662.8	658.9	644.4	630.0	612.3	594.8	570.0	545.2	534.2	523.4	556.0
65°	624.0	620.0	607.3	594.6	577.8	561.0	534.3	507.8	503.7	499.4	534.1
67.5°	580.0	576.2	565.1	554.1	538.2	522.3	497.7	473.2	474.6	475.9	504.8
70°	533.0	529.2	519.3	509.3	495.6	481.9	460.3	438.7	443.3	447.9	468.4
72.5°	480.3	475.9	466.2	456.4	444.0	431.6	414.6	397.7	404.4	411.0	425.2
75°	418.3	413.6	404.8	395.9	384.6	373.4	360.8	348.2	354.6	361.0	371.9
77.5°	358.5	354.1	344.9	335.6	326.0	316.2	306.0	295.7	302.3	308.7	317.4
80°	289.4	283.5	276.5	269.5	261.3	253.2	244.7	236.1	241.6	247.0	254.4
82.5°	210.4	200.6	185.5	170.5	173.3	176.2	176.9	177.6	181.4	185.3	188.9
85°	127.7	115.5	101.4	87.2	95.1	103.0	106.7	110.4	114.7	119.1	122.9
87.5°	55.8	50.7	44.8	38.9	45.0	50.9	51.1	51.2	52.1	52.9	54.4
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
2.5°	1312.2	1324.2	1335.1	1346.2	1357.5	1369.2	1380.9	1392.5	1404.1	1415.1	1426.0
5°	1300.6	1321.7	1343.1	1365.7	1388.4	1412.6	1436.8	1460.9	1485.0	1509.2	1533.4
7.5°	1296.4	1323.7	1352.9	1384.5	1416.0	1451.9	1487.8	1524.7	1561.5	1601.4	1641.2
10°	1298.5	1327.8	1363.8	1401.3	1438.6	1482.1	1525.7	1574.4	1623.1	1673.5	1723.9
12.5°	1301.0	1328.3	1366.1	1408.5	1450.7	1502.0	1553.5	1608.6	1663.8	1719.1	1774.6
15°	1290.2	1312.0	1353.9	1402.8	1451.8	1511.0	1570.2	1630.0	1689.8	1747.6	1805.3
17.5°	1257.1	1270.6	1319.8	1378.7	1437.6	1506.2	1574.9	1640.2	1705.5	1764.1	1822.7
20°	1203.1	1206.7	1264.0	1337.0	1410.0	1493.2	1576.4	1648.2	1720.0	1780.8	1841.7
22.5°	1142.0	1135.0	1200.3	1288.1	1376.0	1477.2	1578.5	1659.0	1739.4	1801.6	1863.9
25°	1082.5	1063.7	1130.7	1233.5	1336.5	1461.4	1586.6	1678.5	1770.5	1831.4	1892.4
27.5°	1030.6	1007.8	1068.7	1183.6	1298.6	1451.0	1603.3	1709.1	1814.8	1872.9	1931.0
30°	985.0	967.1	1018.1	1141.8	1265.6	1446.0	1626.4	1748.6	1870.9	1927.0	1983.2
32.5°	945.0	937.1	978.3	1105.9	1233.5	1439.9	1646.2	1789.9	1933.6	1989.1	2044.8
35°	907.2	910.6	944.9	1070.5	1196.2	1428.4	1660.7	1836.9	2013.1	2066.3	2119.6
37.5°	867.7	879.8	909.8	1028.9	1148.0	1408.7	1669.4	1889.6	2109.8	2177.6	2245.5
40°	824.3	842.9	870.1	979.3	1088.4	1381.6	1674.8	1956.4	2238.0	2336.9	2435.8
42.5°	778.3	801.7	826.8	924.4	1022.1	1353.6	1685.2	2043.8	2402.6	2545.4	2688.2
45°	732.5	755.1	780.5	866.2	951.9	1327.6	1703.3	2159.0	2614.7	2807.3	2999.9
47.5°	691.6	711.1	743.9	820.2	896.5	1306.2	1715.7	2281.6	2847.4	3118.6	3389.6
50°	655.6	678.2	721.4	789.7	857.8	1282.7	1707.6	2395.4	3083.1	3491.9	3900.4
52.5°	628.8	660.5	710.1	769.5	828.9	1243.2	1657.5	2469.2	3280.9	3883.9	4486.9
55°	614.6	662.3	708.4	754.8	801.3	1177.6	1554.0	2453.0	3352.0	4231.6	5111.3
57.5°	606.0	664.0	704.7	737.6	770.4	1085.3	1400.0	2338.4	3276.8	4477.9	5679.1
60°	598.0	658.5	685.3	711.1	736.9	965.2	1193.6	2125.1	3056.7	4539.5	6022.3
62.5°	588.7	644.7	648.0	665.1	682.2	821.6	961.0	1836.8	2712.5	4280.3	5848.0
65°	568.9	611.6	611.2	619.3	627.4	692.5	757.6	1542.6	2327.7	3913.4	5499.2
67.5°	533.6	557.7	558.8	554.3	549.8	568.4	586.8	1254.4	1922.0	3476.9	5031.8
70°	489.0	496.9	496.9	476.0	455.0	449.8	444.4	987.7	1530.8	3000.6	4470.3
72.5°	439.2	439.1	434.1	404.5	374.7	358.7	342.9	755.0	1167.3	2484.2	3801.2
75°	382.7	384.7	361.7	328.4	295.1	280.6	266.2	548.0	829.8	1892.4	2954.8
77.5°	326.2	327.2	289.3	257.0	224.7	214.7	205.0	371.4	537.7	1324.4	2111.2
80°	261.7	261.8	216.5	189.2	161.8	157.7	153.6	239.2	324.9	853.3	1381.7
82.5°	192.4	190.3	151.6	131.5	111.3	110.5	109.8	147.2	184.6	493.8	803.2
85°	126.7	123.9	95.1	80.4	65.6	66.0	66.4	78.6	91.0	222.1	353.4
87.5°	56.0	52.4	40.5	34.4	28.4	28.7	29.1	32.6	36.1	72.8	109.4
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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
2.5°	1431.4	1436.8	1444.5	1452.2	1456.8	1461.3	1463.7	1466.0	1464.9	1466.0	1463.7
5°	1552.3	1571.2	1589.9	1608.6	1618.9	1629.0	1635.2	1641.4	1646.0	1641.4	1635.2
7.5°	1672.0	1702.6	1730.3	1757.9	1774.6	1791.2	1800.2	1809.1	1813.5	1809.1	1800.2
10°	1760.2	1796.6	1829.0	1861.4	1881.1	1900.6	1909.4	1918.1	1921.4	1918.1	1909.4
12.5°	1813.9	1853.3	1882.6	1911.8	1926.1	1940.3	1945.0	1949.9	1950.4	1949.9	1945.0
15°	1839.4	1873.3	1891.6	1910.1	1910.6	1911.1	1906.0	1900.9	1894.9	1900.9	1906.0
17.5°	1845.6	1868.6	1868.9	1869.2	1848.6	1828.0	1809.1	1790.2	1776.8	1790.2	1809.1
20°	1849.7	1857.7	1833.6	1809.4	1763.9	1718.4	1685.3	1652.2	1631.8	1652.2	1685.3
22.5°	1853.4	1842.8	1792.8	1742.8	1675.9	1608.9	1567.5	1526.1	1503.6	1526.1	1567.5
25°	1859.2	1826.2	1750.2	1674.1	1593.0	1511.7	1468.1	1424.6	1403.3	1424.6	1468.1
27.5°	1871.9	1812.7	1712.1	1611.4	1521.3	1431.2	1388.4	1345.6	1325.5	1345.6	1388.4
30°	1895.0	1806.9	1682.9	1558.9	1465.1	1371.3	1331.6	1291.8	1273.2	1291.8	1331.6
32.5°	1924.0	1803.3	1663.1	1522.8	1434.7	1346.4	1315.3	1284.0	1270.6	1284.0	1315.3
35°	1971.8	1824.1	1677.9	1531.9	1470.6	1409.4	1402.1	1394.8	1393.7	1394.8	1402.1
37.5°	2071.6	1897.9	1765.0	1632.2	1628.3	1624.3	1657.6	1690.8	1708.2	1690.8	1657.6
40°	2246.8	2057.7	1959.0	1860.2	1929.9	1999.6	2080.5	2161.4	2201.7	2161.4	2080.5
42.5°	2500.6	2313.0	2256.1	2199.2	2351.4	2503.4	2650.5	2797.6	2884.0	2797.6	2650.5
45°	2831.4	2662.8	2637.7	2612.6	2856.2	3099.8	3341.6	3583.5	3730.3	3583.5	3341.6
47.5°	3225.7	3061.8	3056.7	3051.6	3403.0	3754.3	4108.3	4462.2	4670.1	4462.2	4108.3
50°	3698.0	3495.6	3496.5	3497.3	3950.1	4403.1	4870.3	5337.6	5620.1	5337.6	4870.3
52.5°	4241.8	3996.7	3971.9	3947.1	4488.0	5029.0	5607.1	6185.2	6523.8	6185.2	5607.1
55°	4869.1	4626.8	4530.2	4433.5	5035.6	5637.6	6326.8	7016.0	7418.8	7016.0	6326.8
57.5°	5547.2	5415.3	5221.5	5027.7	5635.6	6243.5	7024.1	7804.8	8304.1	7804.8	7024.1
60°	6227.2	6432.1	6191.4	5950.7	6526.0	7101.3	7937.1	8772.9	9312.7	8772.9	7937.1
62.5°	6407.8	6967.5	6940.5	6913.3	7440.3	7967.3	8762.5	9557.7	10056.6	9557.7	8762.5
65°	6024.6	6550.0	6653.9	6757.8	7427.6	8097.3	8868.4	9639.5	10064.3	9639.5	8868.4
67.5°	5531.5	6031.2	6080.0	6128.7	6826.5	7524.2	8298.6	9073.0	9405.8	9073.0	8298.6
70°	5013.9	5557.3	5579.2	5601.0	6225.0	6849.0	7515.4	8181.9	8366.8	8181.9	7515.4
72.5°	4424.9	5048.6	5064.3	5079.9	5568.2	6056.4	6555.5	7054.6	7073.3	7054.6	6555.5
75°	3600.3	4245.9	4303.8	4361.7	4741.5	5121.4	5472.8	5824.2	5730.0	5824.2	5472.8
77.5°	2713.7	3316.3	3399.3	3482.2	3771.0	4059.7	4308.9	4558.2	4396.3	4558.2	4308.9
80°	1888.7	2395.6	2498.6	2601.8	2819.9	3037.9	3168.7	3299.6	3039.2	3299.6	3168.7
82.5°	1149.7	1496.4	1611.5	1726.7	1876.9	2026.9	2081.6	2136.1	1931.5	2136.1	2081.6
85°	537.3	721.3	819.2	917.2	1040.5	1163.8	1194.8	1225.8	1061.9	1225.8	1194.8
87.5°	171.2	233.1	287.7	342.3	404.1	465.7	468.3	470.9	395.3	470.9	468.3
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):

	330°	335°	340°	345°	350°	355°	360°
0°	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0	1326.0
2.5°	1461.3	1456.8	1452.2	1444.5	1436.8	1431.4	1426.0
5°	1629.0	1618.9	1608.6	1589.9	1571.2	1552.3	1533.4
7.5°	1791.2	1774.6	1757.9	1730.3	1702.6	1672.0	1641.2
10°	1900.6	1881.1	1861.4	1829.0	1796.6	1760.2	1723.9
12.5°	1940.3	1926.1	1911.8	1882.6	1853.3	1813.9	1774.6
15°	1911.1	1910.6	1910.1	1891.6	1873.3	1839.4	1805.3
17.5°	1828.0	1848.6	1869.2	1868.9	1868.6	1845.6	1822.7
20°	1718.4	1763.9	1809.4	1833.6	1857.7	1849.7	1841.7
22.5°	1608.9	1675.9	1742.8	1792.8	1842.8	1853.4	1863.9
25°	1511.7	1593.0	1674.1	1750.2	1826.2	1859.2	1892.4
27.5°	1431.2	1521.3	1611.4	1712.1	1812.7	1871.9	1931.0
30°	1371.3	1465.1	1558.9	1682.9	1806.9	1895.0	1983.2
32.5°	1346.4	1434.7	1522.8	1663.1	1803.3	1924.0	2044.8
35°	1409.4	1470.6	1531.9	1677.9	1824.1	1971.8	2119.6
37.5°	1624.3	1628.3	1632.2	1765.0	1897.9	2071.6	2245.5
40°	1999.6	1929.9	1860.2	1959.0	2057.7	2246.8	2435.8
42.5°	2503.4	2351.4	2199.2	2256.1	2313.0	2500.6	2688.2
45°	3099.8	2856.2	2612.6	2637.7	2662.8	2831.4	2999.9
47.5°	3754.3	3403.0	3051.6	3056.7	3061.8	3225.7	3389.6
50°	4403.1	3950.1	3497.3	3496.5	3495.6	3698.0	3900.4
52.5°	5029.0	4488.0	3947.1	3971.9	3996.7	4241.8	4486.9
55°	5637.6	5035.6	4433.5	4530.2	4626.8	4869.1	5111.3
57.5°	6243.5	5635.6	5027.7	5221.5	5415.3	5547.2	5679.1
60°	7101.3	6526.0	5950.7	6191.4	6432.1	6227.2	6022.3
62.5°	7967.3	7440.3	6913.3	6940.5	6967.5	6407.8	5848.0
65°	8097.3	7427.6	6757.8	6653.9	6550.0	6024.6	5499.2
67.5°	7524.2	6826.5	6128.7	6080.0	6031.2	5531.5	5031.8
70°	6849.0	6225.0	5601.0	5579.2	5557.3	5013.9	4470.3
72.5°	6056.4	5568.2	5079.9	5064.3	5048.6	4424.9	3801.2
75°	5121.4	4741.5	4361.7	4303.8	4245.9	3600.3	2954.8
77.5°	4059.7	3771.0	3482.2	3399.3	3316.3	2713.7	2111.2
80°	3037.9	2819.9	2601.8	2498.6	2395.6	1888.7	1381.7
82.5°	2026.9	1876.9	1726.7	1611.5	1496.4	1149.7	803.2
85°	1163.8	1040.5	917.2	819.2	721.3	537.3	353.4
87.5°	465.7	404.1	342.3	287.7	233.1	171.2	109.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)