

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: P960845

Luminaire Tested: **NAV-SB1D-730-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960845
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-730-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10396.6 lumens
Efficiency: N/A
Efficacy: 130.6 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

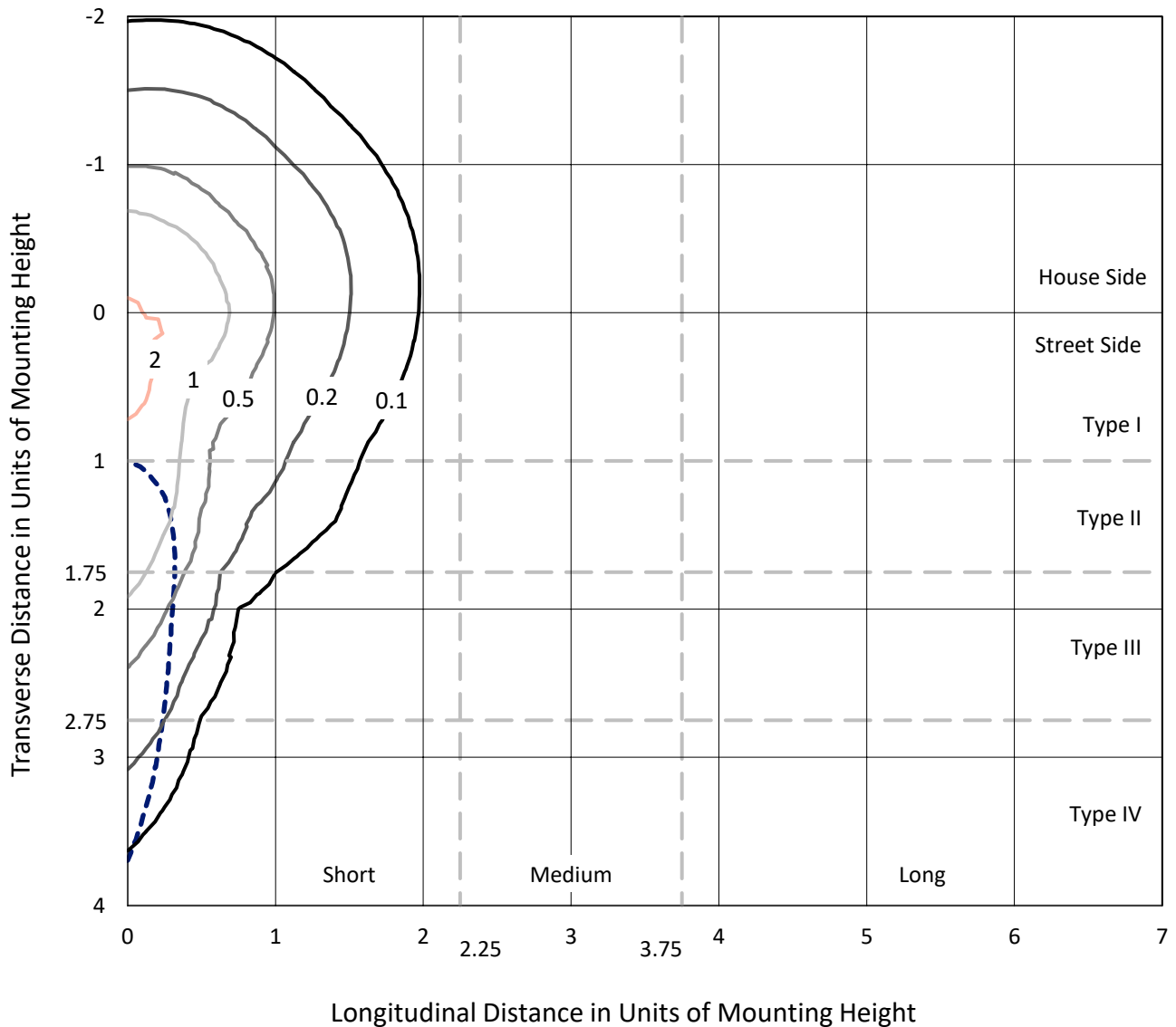
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

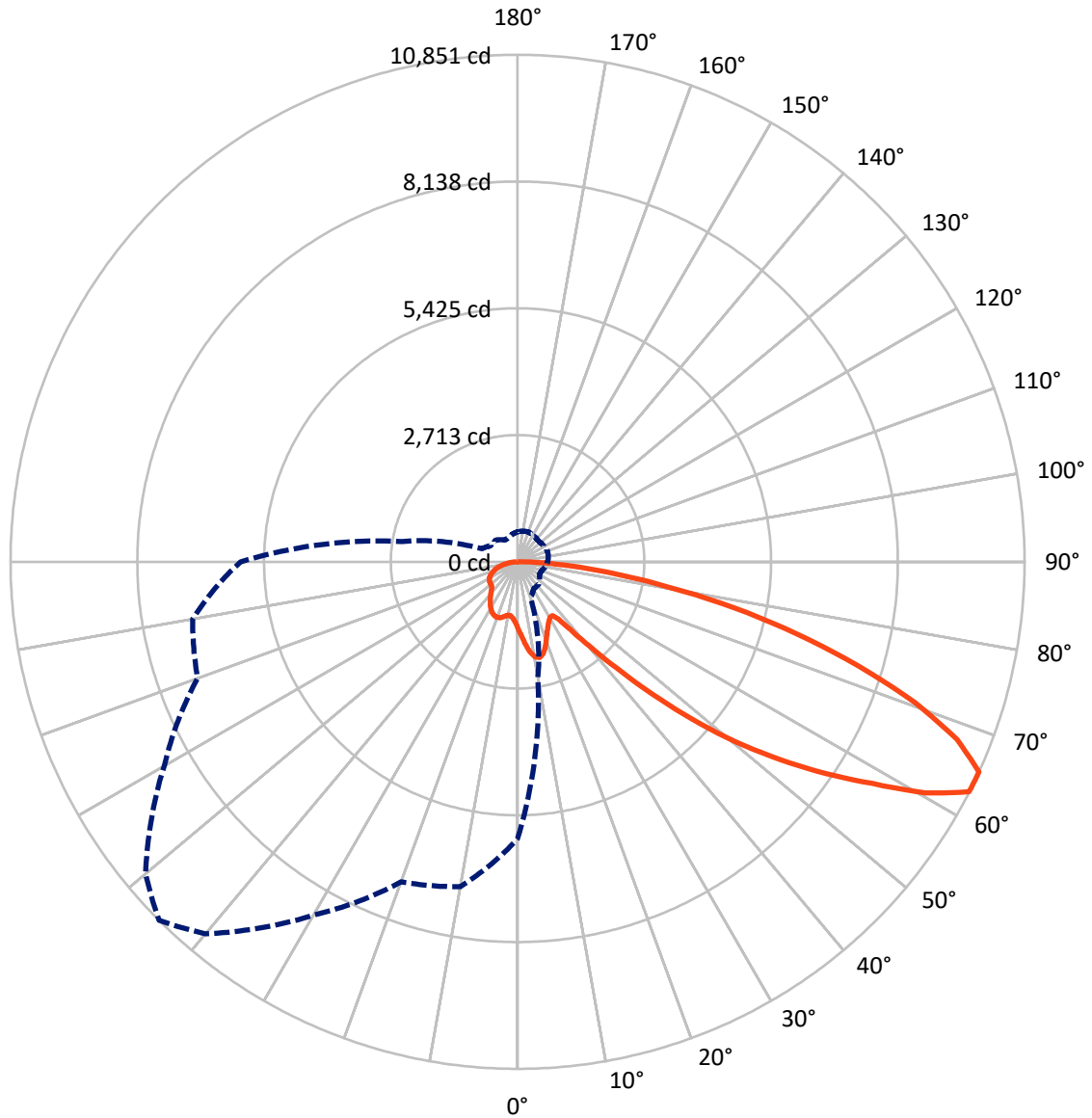
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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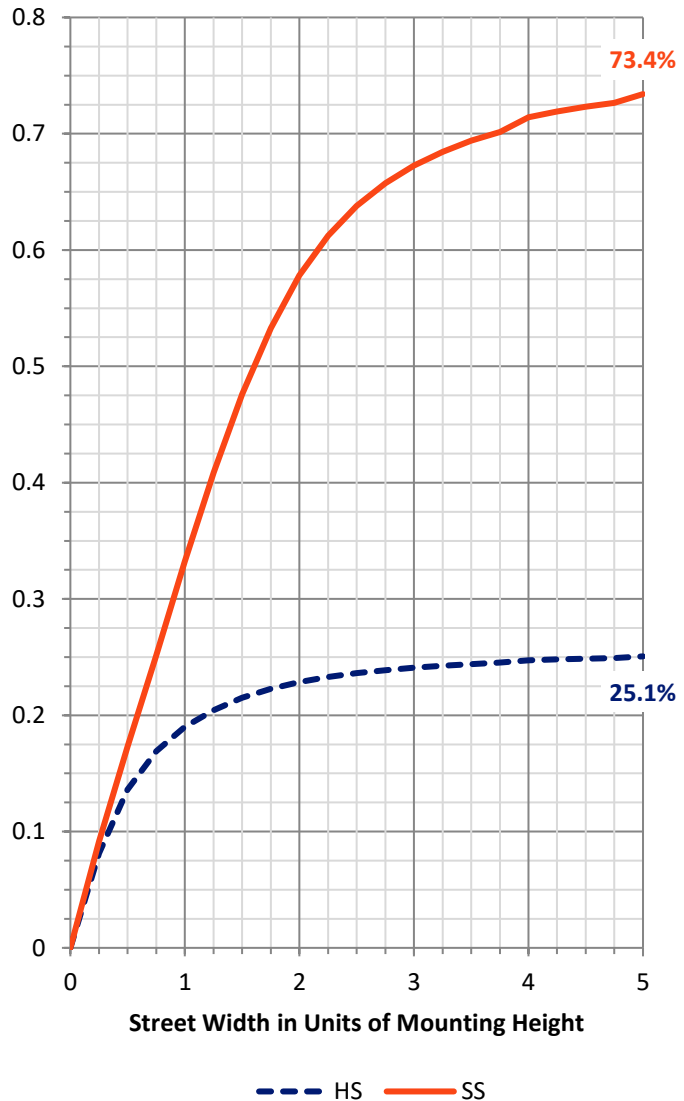
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2642.3	0.0	2642.3
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	7754.3	0.0	7754.3
	% Fixture	74.6	0.0	74.6
Total	Lumens	10396.6	0.0	10396.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.4
10°-20°	445.2	4.3
20°-30°	687.7	6.6
30°-40°	871.4	8.4
40°-50°	1314.4	12.6
50°-60°	2123.6	20.4
60°-70°	2647.3	25.5
70°-80°	1736.0	16.7
80°-90°	429.2	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°	10396.6	100.0
0°-180°	10396.6	100.0

Coefficient of Utilization



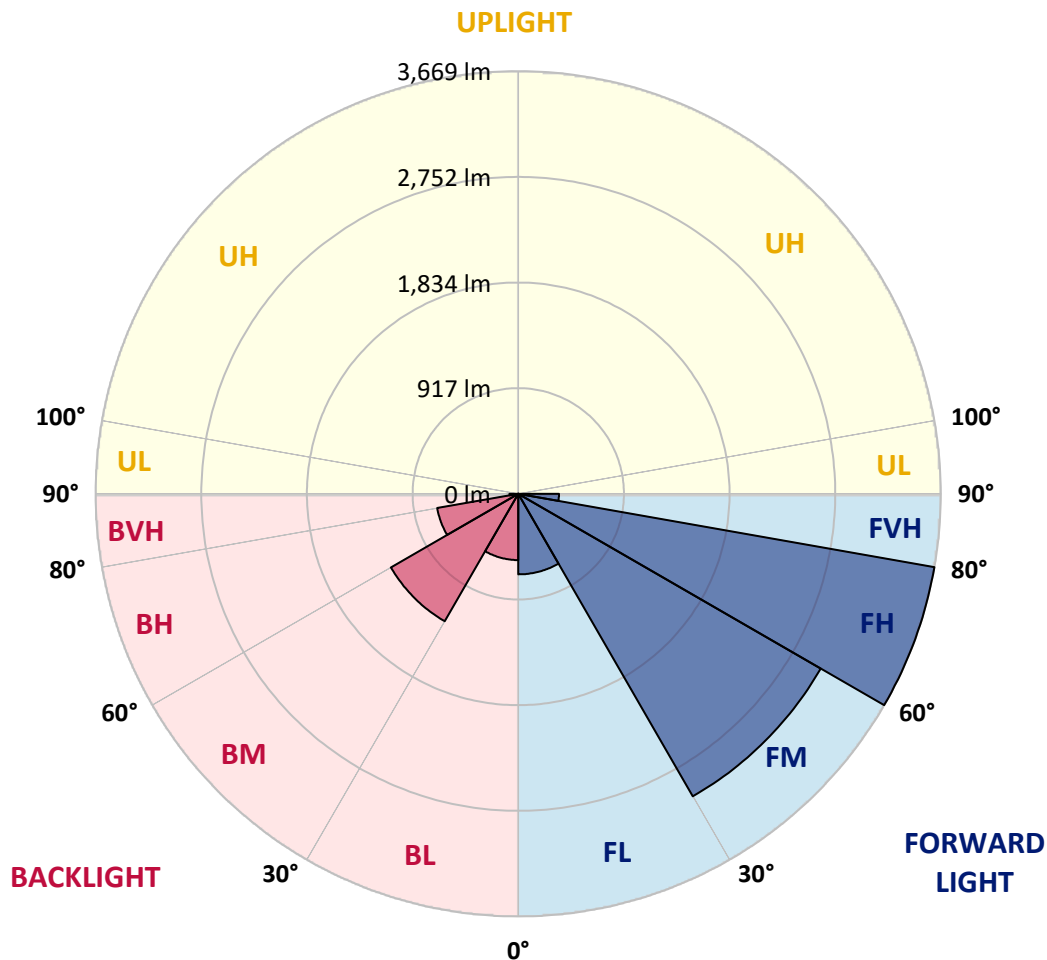
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.3	6.7			
FM (30°-60°)	3032.5	29.2			
FH (60°-80°)	3669.0	35.3			G2/5000
FVH (80°-90°)	353.6	3.4			G3/500
BL (0°-30°)	575.4	5.5	B2/1000		
BM (30°-60°)	1276.9	12.3	B2/2500		
BH (60°-80°)	714.4	6.9	B2/1000		G2/1000
BVH (80°-90°)	75.6	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°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1537.4	1525.6	1513.8	1501.2	1488.7	1476.1	1463.5	1451.5	1439.4	1427.7	1414.7
5°	1653.1	1627.1	1601.0	1575.0	1549.1	1522.9	1496.8	1472.4	1448.0	1425.0	1402.2
7.5°	1769.5	1726.5	1683.5	1643.8	1604.0	1565.4	1526.7	1492.6	1458.6	1427.1	1397.7
10°	1858.6	1804.2	1749.9	1697.4	1644.9	1598.0	1550.9	1510.7	1470.4	1431.5	1399.8
12.5°	1913.2	1853.5	1793.7	1734.3	1674.8	1619.4	1564.0	1518.4	1472.8	1432.1	1402.6
15°	1946.4	1884.2	1821.8	1757.4	1692.8	1629.0	1565.3	1512.5	1459.7	1414.5	1390.9
17.5°	1965.0	1901.9	1838.7	1768.3	1698.0	1623.9	1549.9	1486.4	1422.9	1369.8	1355.3
20°	1985.6	1920.0	1854.3	1776.9	1699.7	1609.9	1520.2	1441.5	1362.8	1300.9	1297.1
22.5°	2009.5	1942.5	1875.3	1788.6	1701.8	1592.6	1483.5	1388.8	1294.0	1223.6	1231.1
25°	2040.2	1974.5	1908.9	1809.6	1710.5	1575.6	1440.8	1329.8	1218.9	1146.9	1167.2
27.5°	2081.9	2019.2	1956.5	1842.6	1728.6	1564.3	1399.9	1276.0	1152.1	1086.5	1111.2
30°	2138.1	2077.6	2017.0	1885.2	1753.4	1559.0	1364.5	1231.1	1097.7	1042.6	1062.0
32.5°	2204.5	2144.5	2084.6	1929.7	1774.8	1552.4	1329.8	1192.3	1054.6	1010.2	1018.8
35°	2285.1	2227.7	2170.3	1980.4	1790.5	1540.0	1289.7	1154.1	1018.7	981.7	978.2
37.5°	2420.9	2347.8	2274.6	2037.2	1799.8	1518.7	1237.7	1109.3	980.9	948.5	935.4
40°	2626.0	2519.4	2412.7	2109.2	1805.6	1489.5	1173.4	1055.8	938.1	908.8	888.7
42.5°	2898.2	2744.2	2590.3	2203.5	1816.8	1459.4	1102.0	996.7	891.3	864.3	839.1
45°	3234.2	3026.5	2819.0	2327.7	1836.4	1431.3	1026.3	933.9	841.5	814.1	789.7
47.5°	3654.4	3362.2	3069.9	2459.9	1849.8	1408.1	966.5	884.3	802.1	766.7	745.7
50°	4205.2	3764.6	3324.0	2582.5	1841.1	1382.9	924.9	851.3	777.8	731.2	706.8
52.5°	4837.5	4187.3	3537.3	2662.2	1787.0	1340.3	893.7	829.5	765.6	712.1	677.9
55°	5510.6	4562.2	3613.8	2644.6	1675.4	1269.7	863.9	813.8	763.7	714.0	662.6
57.5°	6122.7	4827.8	3532.8	2521.1	1509.4	1170.0	830.6	795.2	759.8	715.9	653.3
60°	6492.8	4894.2	3295.5	2291.2	1286.9	1040.7	794.5	766.7	738.8	709.9	644.7
62.5°	6304.9	4614.7	2924.4	1980.3	1036.2	885.9	735.5	717.1	698.6	695.1	634.6
65°	5928.9	4219.2	2509.5	1663.1	816.7	746.6	676.4	667.7	659.0	659.4	613.4
67.5°	5425.0	3748.5	2072.1	1352.4	632.6	612.7	592.8	597.7	602.5	601.3	575.3
70°	4819.7	3235.0	1650.5	1064.8	479.2	484.9	490.6	513.1	535.7	535.7	527.2
72.5°	4098.3	2678.3	1258.5	814.1	369.6	386.8	404.1	436.0	468.0	473.4	473.6
75°	3185.6	2040.2	894.6	590.8	287.0	302.6	318.2	354.0	389.9	414.7	412.7
77.5°	2276.1	1427.9	579.7	400.4	221.0	231.5	242.2	277.1	311.9	352.7	351.7
80°	1489.7	919.9	350.2	258.0	165.6	170.0	174.5	204.0	233.4	282.3	282.1
82.5°	865.9	532.5	199.1	158.7	118.4	119.1	120.0	141.8	163.5	205.2	207.5
85°	381.0	239.5	98.1	84.8	71.5	71.2	70.7	86.7	102.6	133.6	136.6
87.5°	118.0	78.4	38.9	35.2	31.4	31.0	30.6	37.1	43.6	56.5	60.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1404.1	1393.7	1384.2	1374.7	1366.4	1358.2	1349.8	1341.5	1335.2	1328.7	1323.5
5°	1382.3	1362.4	1345.7	1329.1	1314.5	1299.7	1286.4	1272.9	1262.7	1252.4	1245.3
7.5°	1371.2	1344.9	1323.0	1300.9	1282.5	1263.9	1247.6	1231.3	1219.0	1206.9	1198.3
10°	1372.1	1344.2	1322.2	1300.2	1280.3	1260.3	1242.0	1223.6	1209.0	1194.4	1184.8
12.5°	1379.9	1357.1	1342.5	1328.0	1312.3	1296.7	1277.8	1258.7	1240.0	1221.4	1209.1
15°	1380.1	1369.2	1371.1	1373.1	1369.1	1365.0	1348.5	1332.0	1305.4	1278.9	1260.1
17.5°	1359.3	1363.2	1387.1	1411.1	1423.8	1436.4	1423.1	1409.9	1374.7	1339.6	1311.9
20°	1315.8	1334.4	1376.0	1417.6	1444.1	1470.8	1464.6	1458.4	1418.2	1378.0	1344.2
22.5°	1258.7	1286.4	1333.7	1381.2	1415.8	1450.5	1454.2	1457.9	1419.4	1381.1	1346.1
25°	1198.9	1230.7	1273.4	1316.1	1350.1	1384.2	1397.0	1409.6	1378.1	1346.6	1315.6
27.5°	1141.8	1172.6	1207.7	1242.7	1270.0	1297.3	1311.5	1325.6	1303.2	1280.8	1256.8
30°	1086.3	1110.8	1139.9	1168.9	1191.6	1214.3	1225.8	1237.4	1220.3	1203.1	1185.9
32.5°	1033.3	1047.7	1070.9	1094.2	1115.9	1137.6	1150.5	1163.3	1147.6	1131.8	1118.1
35°	982.1	986.0	1003.8	1021.5	1042.9	1064.6	1079.9	1095.2	1084.0	1073.0	1060.2
37.5°	931.1	926.7	939.4	952.1	973.5	995.1	1014.0	1033.0	1027.9	1022.6	1011.0
40°	878.7	868.9	878.0	887.1	907.9	928.6	950.5	972.4	973.6	974.9	964.9
42.5°	825.9	812.7	820.2	827.7	847.4	867.0	890.6	914.2	920.6	926.8	918.4
45°	776.8	764.0	770.3	776.6	795.3	814.0	838.4	862.9	872.0	881.0	873.5
47.5°	734.9	724.2	730.1	735.9	754.2	772.4	796.5	820.7	831.1	841.5	836.3
50°	697.3	687.8	697.0	706.3	723.5	740.7	762.3	783.9	797.3	810.7	810.4
52.5°	668.5	659.2	673.0	686.9	702.6	718.4	738.5	758.7	774.6	790.4	793.2
55°	647.7	632.8	652.5	672.1	689.1	706.1	723.9	741.4	758.2	775.0	779.0
57.5°	631.6	609.9	631.1	652.3	672.2	692.2	709.6	727.1	744.2	761.0	765.0
60°	616.5	588.3	607.0	625.5	648.4	671.4	689.1	706.8	723.9	740.9	745.3
62.5°	599.4	564.3	576.0	587.8	614.5	641.3	660.2	679.2	694.7	710.3	714.5
65°	575.9	538.4	542.9	547.5	576.2	604.9	622.9	641.0	654.8	668.4	672.8
67.5°	544.2	513.0	511.6	510.1	536.6	563.1	580.3	597.4	609.3	621.2	625.4
70°	505.0	482.9	478.0	473.0	496.2	519.5	534.3	549.1	559.9	570.5	574.6
72.5°	458.4	443.1	435.9	428.8	447.0	465.4	478.7	492.1	502.6	513.0	517.8
75°	401.0	389.2	382.3	375.4	389.0	402.5	414.7	426.8	436.3	445.9	450.9
77.5°	342.2	332.9	325.8	318.9	329.9	340.9	351.4	361.8	371.9	381.8	386.5
80°	274.3	266.3	260.5	254.5	263.7	273.0	281.7	290.5	298.1	305.7	311.9
82.5°	203.7	199.8	195.7	191.5	190.6	189.9	186.9	183.8	200.0	216.3	226.9
85°	132.5	128.3	123.7	119.0	115.1	111.1	102.6	94.1	109.3	124.5	137.7
87.5°	58.7	57.1	56.2	55.2	55.1	54.9	48.5	41.9	48.4	54.7	60.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1318.3	1314.2	1310.2	1306.4	1302.6	1298.0	1302.6	1306.4	1310.2	1314.2	1318.3
5°	1238.1	1233.0	1227.8	1224.0	1220.1	1216.3	1220.1	1224.0	1227.8	1233.0	1238.1
7.5°	1189.8	1183.9	1178.1	1174.5	1171.2	1168.5	1171.2	1174.5	1178.1	1183.9	1189.8
10°	1175.2	1169.6	1164.1	1161.1	1158.1	1157.0	1158.1	1161.1	1164.1	1169.6	1175.2
12.5°	1196.8	1190.5	1184.4	1181.9	1179.4	1179.0	1179.4	1181.9	1184.4	1190.5	1196.8
15°	1241.4	1232.8	1224.2	1220.9	1217.6	1217.3	1217.6	1220.9	1224.2	1232.8	1241.4
17.5°	1284.2	1271.5	1258.7	1254.6	1250.3	1249.7	1250.3	1254.6	1258.7	1271.5	1284.2
20°	1310.3	1294.0	1277.7	1272.4	1267.2	1265.6	1267.2	1272.4	1277.7	1294.0	1310.3
22.5°	1311.3	1294.1	1276.8	1271.1	1265.4	1262.8	1265.4	1271.1	1276.8	1294.1	1311.3
25°	1284.6	1269.8	1254.9	1249.5	1244.0	1240.9	1244.0	1249.5	1254.9	1269.8	1284.6
27.5°	1232.7	1222.7	1212.7	1210.2	1207.8	1206.9	1207.8	1210.2	1212.7	1222.7	1232.7
30°	1168.6	1163.5	1158.4	1158.4	1158.4	1159.2	1158.4	1158.4	1158.4	1163.5	1168.6
32.5°	1104.3	1101.0	1097.6	1098.1	1098.6	1099.4	1098.6	1098.1	1097.6	1101.0	1104.3
35°	1047.6	1042.4	1037.4	1036.3	1035.1	1034.6	1035.1	1036.3	1037.4	1042.4	1047.6
37.5°	999.3	989.9	980.7	975.9	971.0	968.2	971.0	975.9	980.7	989.9	999.3
40°	955.0	941.5	928.1	919.0	910.0	904.7	910.0	919.0	928.1	941.5	955.0
42.5°	910.1	893.4	876.7	863.5	850.2	841.5	850.2	863.5	876.7	893.4	910.1
45°	865.9	846.8	827.7	812.2	796.6	786.7	796.6	812.2	827.7	846.8	865.9
47.5°	831.0	814.0	796.9	782.6	768.3	758.7	768.3	782.6	796.9	814.0	831.0
50°	810.2	796.5	782.9	769.7	756.3	747.2	756.3	769.7	782.9	796.5	810.2
52.5°	796.1	785.0	774.0	762.1	750.2	741.7	750.2	762.1	774.0	785.0	796.1
55°	782.9	773.3	763.6	753.2	742.8	735.1	742.8	753.2	763.6	773.3	782.9
57.5°	769.1	759.2	749.5	739.1	728.8	720.9	728.8	739.1	749.5	759.2	769.1
60°	749.7	740.0	730.6	720.0	709.3	701.1	709.3	720.0	730.6	740.0	749.7
62.5°	718.7	710.1	701.5	690.3	679.2	669.3	679.2	690.3	701.5	710.1	718.7
65°	677.1	668.8	660.5	649.6	638.8	630.4	638.8	649.6	660.5	668.8	677.1
67.5°	629.6	621.9	614.3	604.2	594.1	586.4	594.1	604.2	614.3	621.9	629.6
70°	578.6	572.5	566.2	556.6	546.9	538.1	546.9	556.6	566.2	572.5	578.6
72.5°	522.6	517.5	512.4	503.2	494.0	485.5	494.0	503.2	512.4	517.5	522.6
75°	456.0	453.5	450.9	443.2	435.4	427.3	435.4	443.2	450.9	453.5	456.0
77.5°	391.2	387.8	384.2	376.4	368.6	362.0	368.6	376.4	384.2	387.8	391.2
80°	318.2	316.6	315.2	304.7	294.2	282.0	294.2	304.7	315.2	316.6	318.2
82.5°	237.5	236.9	236.2	227.3	218.4	210.6	218.4	227.3	236.2	236.9	237.5
85°	150.9	149.8	148.6	141.8	134.9	127.8	134.9	141.8	148.6	149.8	150.9
87.5°	65.4	64.1	62.6	59.1	55.6	52.1	55.6	59.1	62.6	64.1	65.4
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1323.5	1328.7	1335.2	1341.5	1349.8	1358.2	1366.4	1374.7	1384.2	1393.7	1404.1
5°	1245.3	1252.4	1262.7	1272.9	1286.4	1299.7	1314.5	1329.1	1345.7	1362.4	1382.3
7.5°	1198.3	1206.9	1219.0	1231.3	1247.6	1263.9	1282.5	1300.9	1323.0	1344.9	1371.2
10°	1184.8	1194.4	1209.0	1223.6	1242.0	1260.3	1280.3	1300.2	1322.2	1344.2	1372.1
12.5°	1209.1	1221.4	1240.0	1258.7	1277.8	1296.7	1312.3	1328.0	1342.5	1357.1	1379.9
15°	1260.1	1278.9	1305.4	1332.0	1348.5	1365.0	1369.1	1373.1	1371.1	1369.2	1380.1
17.5°	1311.9	1339.6	1374.7	1409.9	1423.1	1436.4	1423.8	1411.1	1387.1	1363.2	1359.3
20°	1344.2	1378.0	1418.2	1458.4	1464.6	1470.8	1444.1	1417.6	1376.0	1334.4	1315.8
22.5°	1346.1	1381.1	1419.4	1457.9	1454.2	1450.5	1415.8	1381.2	1333.7	1286.4	1258.7
25°	1315.6	1346.6	1378.1	1409.6	1397.0	1384.2	1350.1	1316.1	1273.4	1230.7	1198.9
27.5°	1256.8	1280.8	1303.2	1325.6	1311.5	1297.3	1270.0	1242.7	1207.7	1172.6	1141.8
30°	1185.9	1203.1	1220.3	1237.4	1225.8	1214.3	1191.6	1168.9	1139.9	1110.8	1086.3
32.5°	1118.1	1131.8	1147.6	1163.3	1150.5	1137.6	1115.9	1094.2	1070.9	1047.7	1033.3
35°	1060.2	1073.0	1084.0	1095.2	1079.9	1064.6	1042.9	1021.5	1003.8	986.0	982.1
37.5°	1011.0	1022.6	1027.9	1033.0	1014.0	995.1	973.5	952.1	939.4	926.7	931.1
40°	964.9	974.9	973.6	972.4	950.5	928.6	907.9	887.1	878.0	868.9	878.7
42.5°	918.4	926.8	920.6	914.2	890.6	867.0	847.4	827.7	820.2	812.7	825.9
45°	873.5	881.0	872.0	862.9	838.4	814.0	795.3	776.6	770.3	764.0	776.8
47.5°	836.3	841.5	831.1	820.7	796.5	772.4	754.2	735.9	730.1	724.2	734.9
50°	810.4	810.7	797.3	783.9	762.3	740.7	723.5	706.3	697.0	687.8	697.3
52.5°	793.2	790.4	774.6	758.7	738.5	718.4	702.6	686.9	673.0	659.2	668.5
55°	779.0	775.0	758.2	741.4	723.9	706.1	689.1	672.1	652.5	632.8	647.7
57.5°	765.0	761.0	744.2	727.1	709.6	692.2	672.2	652.3	631.1	609.9	631.6
60°	745.3	740.9	723.9	706.8	689.1	671.4	648.4	625.5	607.0	588.3	616.5
62.5°	714.5	710.3	694.7	679.2	660.2	641.3	614.5	587.8	576.0	564.3	599.4
65°	672.8	668.4	654.8	641.0	622.9	604.9	576.2	547.5	542.9	538.4	575.9
67.5°	625.4	621.2	609.3	597.4	580.3	563.1	536.6	510.1	511.6	513.0	544.2
70°	574.6	570.5	559.9	549.1	534.3	519.5	496.2	473.0	478.0	482.9	505.0
72.5°	517.8	513.0	502.6	492.1	478.7	465.4	447.0	428.8	435.9	443.1	458.4
75°	450.9	445.9	436.3	426.8	414.7	402.5	389.0	375.4	382.3	389.2	401.0
77.5°	386.5	381.8	371.9	361.8	351.4	340.9	329.9	318.9	325.8	332.9	342.2
80°	311.9	305.7	298.1	290.5	281.7	273.0	263.7	254.5	260.5	266.3	274.3
82.5°	226.9	216.3	200.0	183.8	186.9	189.9	190.6	191.5	195.7	199.8	203.7
85°	137.7	124.5	109.3	94.1	102.6	111.1	115.1	119.0	123.7	128.3	132.5
87.5°	60.1	54.7	48.4	41.9	48.5	54.9	55.1	55.2	56.2	57.1	58.7
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1414.7	1427.7	1439.4	1451.5	1463.5	1476.1	1488.7	1501.2	1513.8	1525.6	1537.4
5°	1402.2	1425.0	1448.0	1472.4	1496.8	1522.9	1549.1	1575.0	1601.0	1627.1	1653.1
7.5°	1397.7	1427.1	1458.6	1492.6	1526.7	1565.4	1604.0	1643.8	1683.5	1726.5	1769.5
10°	1399.8	1431.5	1470.4	1510.7	1550.9	1598.0	1644.9	1697.4	1749.9	1804.2	1858.6
12.5°	1402.6	1432.1	1472.8	1518.4	1564.0	1619.4	1674.8	1734.3	1793.7	1853.5	1913.2
15°	1390.9	1414.5	1459.7	1512.5	1565.3	1629.0	1692.8	1757.4	1821.8	1884.2	1946.4
17.5°	1355.3	1369.8	1422.9	1486.4	1549.9	1623.9	1698.0	1768.3	1838.7	1901.9	1965.0
20°	1297.1	1300.9	1362.8	1441.5	1520.2	1609.9	1699.7	1776.9	1854.3	1920.0	1985.6
22.5°	1231.1	1223.6	1294.0	1388.8	1483.5	1592.6	1701.8	1788.6	1875.3	1942.5	2009.5
25°	1167.2	1146.9	1218.9	1329.8	1440.8	1575.6	1710.5	1809.6	1908.9	1974.5	2040.2
27.5°	1111.2	1086.5	1152.1	1276.0	1399.9	1564.3	1728.6	1842.6	1956.5	2019.2	2081.9
30°	1062.0	1042.6	1097.7	1231.1	1364.5	1559.0	1753.4	1885.2	2017.0	2077.6	2138.1
32.5°	1018.8	1010.2	1054.6	1192.3	1329.8	1552.4	1774.8	1929.7	2084.6	2144.5	2204.5
35°	978.2	981.7	1018.7	1154.1	1289.7	1540.0	1790.5	1980.4	2170.3	2227.7	2285.1
37.5°	935.4	948.5	980.9	1109.3	1237.7	1518.7	1799.8	2037.2	2274.6	2347.8	2420.9
40°	888.7	908.8	938.1	1055.8	1173.4	1489.5	1805.6	2109.2	2412.7	2519.4	2626.0
42.5°	839.1	864.3	891.3	996.7	1102.0	1459.4	1816.8	2203.5	2590.3	2744.2	2898.2
45°	789.7	814.1	841.5	933.9	1026.3	1431.3	1836.4	2327.7	2819.0	3026.5	3234.2
47.5°	745.7	766.7	802.1	884.3	966.5	1408.1	1849.8	2459.9	3069.9	3362.2	3654.4
50°	706.8	731.2	777.8	851.3	924.9	1382.9	1841.1	2582.5	3324.0	3764.6	4205.2
52.5°	677.9	712.1	765.6	829.5	893.7	1340.3	1787.0	2662.2	3537.3	4187.3	4837.5
55°	662.6	714.0	763.7	813.8	863.9	1269.7	1675.4	2644.6	3613.8	4562.2	5510.6
57.5°	653.3	715.9	759.8	795.2	830.6	1170.0	1509.4	2521.1	3532.8	4827.8	6122.7
60°	644.7	709.9	738.8	766.7	794.5	1040.7	1286.9	2291.2	3295.5	4894.2	6492.8
62.5°	634.6	695.1	698.6	717.1	735.5	885.9	1036.2	1980.3	2924.4	4614.7	6304.9
65°	613.4	659.4	659.0	667.7	676.4	746.6	816.7	1663.1	2509.5	4219.2	5928.9
67.5°	575.3	601.3	602.5	597.7	592.8	612.7	632.6	1352.4	2072.1	3748.5	5425.0
70°	527.2	535.7	535.7	513.1	490.6	484.9	479.2	1064.8	1650.5	3235.0	4819.7
72.5°	473.6	473.4	468.0	436.0	404.1	386.8	369.6	814.1	1258.5	2678.3	4098.3
75°	412.7	414.7	389.9	354.0	318.2	302.6	287.0	590.8	894.6	2040.2	3185.6
77.5°	351.7	352.7	311.9	277.1	242.2	231.5	221.0	400.4	579.7	1427.9	2276.1
80°	282.1	282.3	233.4	204.0	174.5	170.0	165.6	258.0	350.2	919.9	1489.7
82.5°	207.5	205.2	163.5	141.8	120.0	119.1	118.4	158.7	199.1	532.5	865.9
85°	136.6	133.6	102.6	86.7	70.7	71.2	71.5	84.8	98.1	239.5	381.0
87.5°	60.4	56.5	43.6	37.1	30.6	31.0	31.4	35.2	38.9	78.4	118.0
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°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1543.2	1549.1	1557.4	1565.7	1570.6	1575.5	1578.0	1580.4	1579.4	1580.4	1578.0
5°	1673.5	1693.9	1714.1	1734.4	1745.4	1756.3	1762.9	1769.7	1774.7	1769.7	1762.9
7.5°	1802.6	1835.7	1865.5	1895.2	1913.2	1931.1	1940.8	1950.5	1955.2	1950.5	1940.8
10°	1897.8	1936.9	1971.9	2006.8	2028.1	2049.1	2058.5	2067.9	2071.4	2067.9	2058.5
12.5°	1955.7	1998.0	2029.7	2061.2	2076.5	2091.9	2097.0	2102.2	2102.7	2102.2	2097.0
15°	1983.1	2019.7	2039.4	2059.3	2059.8	2060.4	2054.9	2049.4	2042.9	2049.4	2054.9
17.5°	1989.7	2014.5	2014.9	2015.3	1993.0	1970.8	1950.5	1930.1	1915.6	1930.1	1950.5
20°	1994.2	2002.8	1976.8	1950.8	1901.7	1852.7	1817.0	1781.2	1759.3	1781.2	1817.0
22.5°	1998.1	1986.9	1932.8	1878.9	1806.8	1734.6	1690.0	1645.3	1621.0	1645.3	1690.0
25°	2004.5	1968.9	1886.9	1804.9	1717.4	1629.7	1582.8	1536.0	1513.0	1536.0	1582.8
27.5°	2018.1	1954.4	1845.8	1737.3	1640.2	1543.0	1496.9	1450.8	1429.1	1450.8	1496.9
30°	2043.0	1948.0	1814.4	1680.8	1579.6	1478.5	1435.6	1392.8	1372.6	1392.8	1435.6
32.5°	2074.3	1944.2	1793.0	1641.8	1546.7	1451.7	1418.1	1384.4	1369.8	1384.4	1418.1
35°	2125.8	1966.6	1809.0	1651.5	1585.5	1519.5	1511.7	1503.8	1502.5	1503.8	1511.7
37.5°	2233.5	2046.1	1902.9	1759.7	1755.5	1751.2	1787.1	1823.0	1841.6	1823.0	1787.1
40°	2422.3	2218.5	2112.0	2005.5	2080.6	2155.9	2243.1	2330.3	2373.7	2330.3	2243.1
42.5°	2696.0	2493.7	2432.4	2371.1	2535.0	2698.9	2857.6	3016.3	3109.4	3016.3	2857.6
45°	3052.6	2870.8	2843.9	2816.7	3079.3	3342.0	3602.7	3863.4	4021.7	3863.4	3602.7
47.5°	3477.7	3300.9	3295.5	3289.9	3668.9	4047.6	4429.2	4810.8	5034.9	4810.8	4429.2
50°	3986.9	3768.7	3769.6	3770.6	4258.8	4747.1	5250.8	5754.6	6059.2	5754.6	5250.8
52.5°	4573.1	4308.9	4282.1	4255.4	4838.6	5421.8	6045.1	6668.3	7033.4	6668.3	6045.1
55°	5249.4	4988.3	4884.1	4780.0	5429.0	6078.0	6821.2	7564.2	7998.4	7564.2	6821.2
57.5°	5980.6	5838.3	5629.4	5420.5	6075.9	6731.3	7572.9	8414.5	8953.0	8414.5	7572.9
60°	6713.6	6934.5	6675.1	6415.6	7035.8	7656.1	8557.2	9458.3	10040.3	9458.3	8557.2
62.5°	6908.4	7511.9	7482.7	7453.4	8021.5	8589.8	9447.1	10304.4	10842.2	10304.4	9447.1
65°	6495.3	7061.7	7173.8	7285.8	8007.8	8729.9	9561.3	10392.6	10850.5	10392.6	9561.3
67.5°	5963.7	6502.4	6555.0	6607.5	7359.8	8112.1	8946.9	9781.9	10140.6	9781.9	8946.9
70°	5405.5	5991.5	6015.0	6038.6	6711.4	7384.1	8102.6	8821.0	9020.4	8821.0	8102.6
72.5°	4770.7	5443.1	5460.0	5476.8	6003.2	6529.6	7067.7	7605.7	7625.9	7605.7	7067.7
75°	3881.6	4577.5	4640.0	4702.5	5112.0	5521.6	5900.3	6279.2	6177.7	6279.2	5900.3
77.5°	2925.8	3575.4	3664.9	3754.3	4065.6	4377.0	4645.5	4914.3	4739.8	4914.3	4645.5
80°	2036.3	2582.8	2693.9	2805.0	3040.1	3275.2	3416.2	3557.4	3276.7	3557.4	3416.2
82.5°	1239.6	1613.2	1737.5	1861.6	2023.5	2185.3	2244.1	2303.0	2082.4	2303.0	2244.1
85°	579.3	777.7	883.2	988.8	1121.8	1254.7	1288.1	1321.5	1144.9	1321.5	1288.1
87.5°	184.6	251.2	310.2	369.1	435.6	502.0	504.9	507.7	426.3	507.7	504.9
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):

	330°	335°	340°	345°	350°	355°	360°
0°	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6	1429.6
2.5°	1575.5	1570.6	1565.7	1557.4	1549.1	1543.2	1537.4
5°	1756.3	1745.4	1734.4	1714.1	1693.9	1673.5	1653.1
7.5°	1931.1	1913.2	1895.2	1865.5	1835.7	1802.6	1769.5
10°	2049.1	2028.1	2006.8	1971.9	1936.9	1897.8	1858.6
12.5°	2091.9	2076.5	2061.2	2029.7	1998.0	1955.7	1913.2
15°	2060.4	2059.8	2059.3	2039.4	2019.7	1983.1	1946.4
17.5°	1970.8	1993.0	2015.3	2014.9	2014.5	1989.7	1965.0
20°	1852.7	1901.7	1950.8	1976.8	2002.8	1994.2	1985.6
22.5°	1734.6	1806.8	1878.9	1932.8	1986.9	1998.1	2009.5
25°	1629.7	1717.4	1804.9	1886.9	1968.9	2004.5	2040.2
27.5°	1543.0	1640.2	1737.3	1845.8	1954.4	2018.1	2081.9
30°	1478.5	1579.6	1680.8	1814.4	1948.0	2043.0	2138.1
32.5°	1451.7	1546.7	1641.8	1793.0	1944.2	2074.3	2204.5
35°	1519.5	1585.5	1651.5	1809.0	1966.6	2125.8	2285.1
37.5°	1751.2	1755.5	1759.7	1902.9	2046.1	2233.5	2420.9
40°	2155.9	2080.6	2005.5	2112.0	2218.5	2422.3	2626.0
42.5°	2698.9	2535.0	2371.1	2432.4	2493.7	2696.0	2898.2
45°	3342.0	3079.3	2816.7	2843.9	2870.8	3052.6	3234.2
47.5°	4047.6	3668.9	3289.9	3295.5	3300.9	3477.7	3654.4
50°	4747.1	4258.8	3770.6	3769.6	3768.7	3986.9	4205.2
52.5°	5421.8	4838.6	4255.4	4282.1	4308.9	4573.1	4837.5
55°	6078.0	5429.0	4780.0	4884.1	4988.3	5249.4	5510.6
57.5°	6731.3	6075.9	5420.5	5629.4	5838.3	5980.6	6122.7
60°	7656.1	7035.8	6415.6	6675.1	6934.5	6713.6	6492.8
62.5°	8589.8	8021.5	7453.4	7482.7	7511.9	6908.4	6304.9
65°	8729.9	8007.8	7285.8	7173.8	7061.7	6495.3	5928.9
67.5°	8112.1	7359.8	6607.5	6555.0	6502.4	5963.7	5425.0
70°	7384.1	6711.4	6038.6	6015.0	5991.5	5405.5	4819.7
72.5°	6529.6	6003.2	5476.8	5460.0	5443.1	4770.7	4098.3
75°	5521.6	5112.0	4702.5	4640.0	4577.5	3881.6	3185.6
77.5°	4377.0	4065.6	3754.3	3664.9	3575.4	2925.8	2276.1
80°	3275.2	3040.1	2805.0	2693.9	2582.8	2036.3	1489.7
82.5°	2185.3	2023.5	1861.6	1737.5	1613.2	1239.6	865.9
85°	1254.7	1121.8	988.8	883.2	777.7	579.3	381.0
87.5°	502.0	435.6	369.1	310.2	251.2	184.6	118.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)