

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: P961556

Luminaire Tested: **NAV-SB2A-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961556
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-SB2A-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8232.8 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 57.3
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

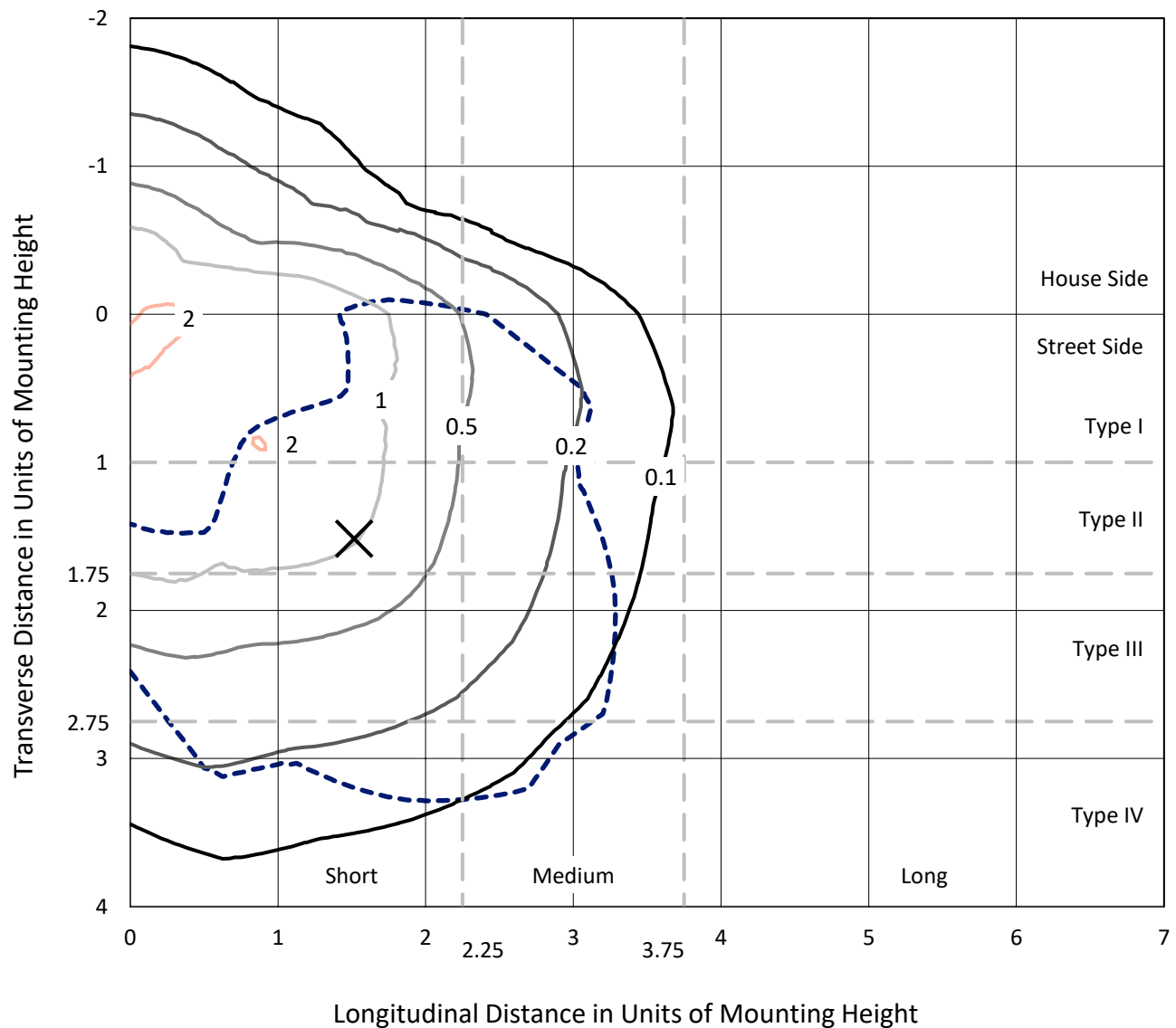


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

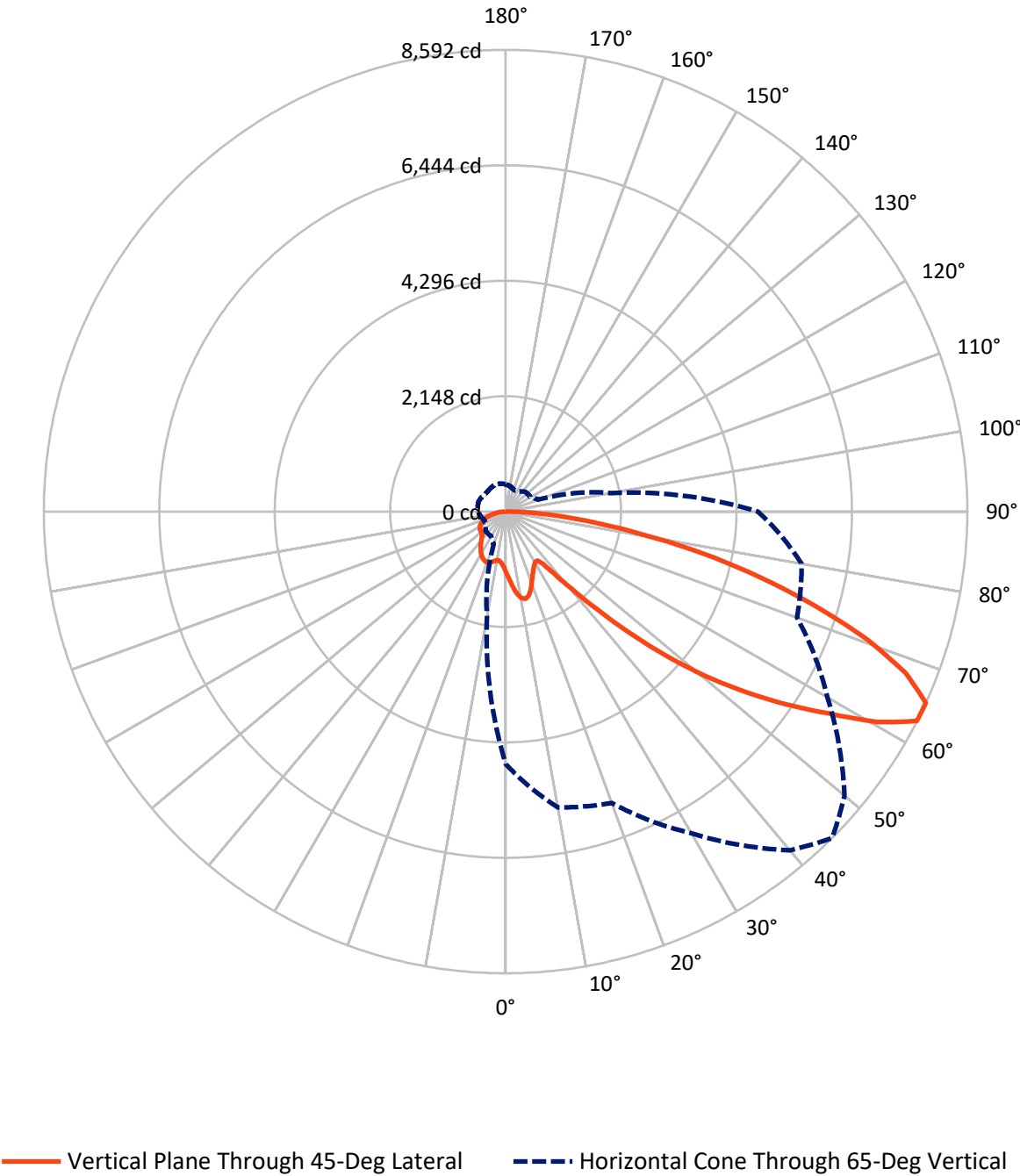


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2092.4	0.0	2092.4
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	6140.4	0.0	6140.4
	% Fixture	74.6	0.0	74.6
Total	Lumens	8232.8	0.0	8232.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	1.4
10°-20°	352.5	4.3
20°-30°	544.5	6.6
30°-40°	690.1	8.4
40°-50°	1040.8	12.6
50°-60°	1681.6	20.4
60°-70°	2096.4	25.5
70°-80°	1374.7	16.7
80°-90°	339.9	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°	8232.8	100.0
0°-180°	8232.8	100.0

Coefficient of Utilization



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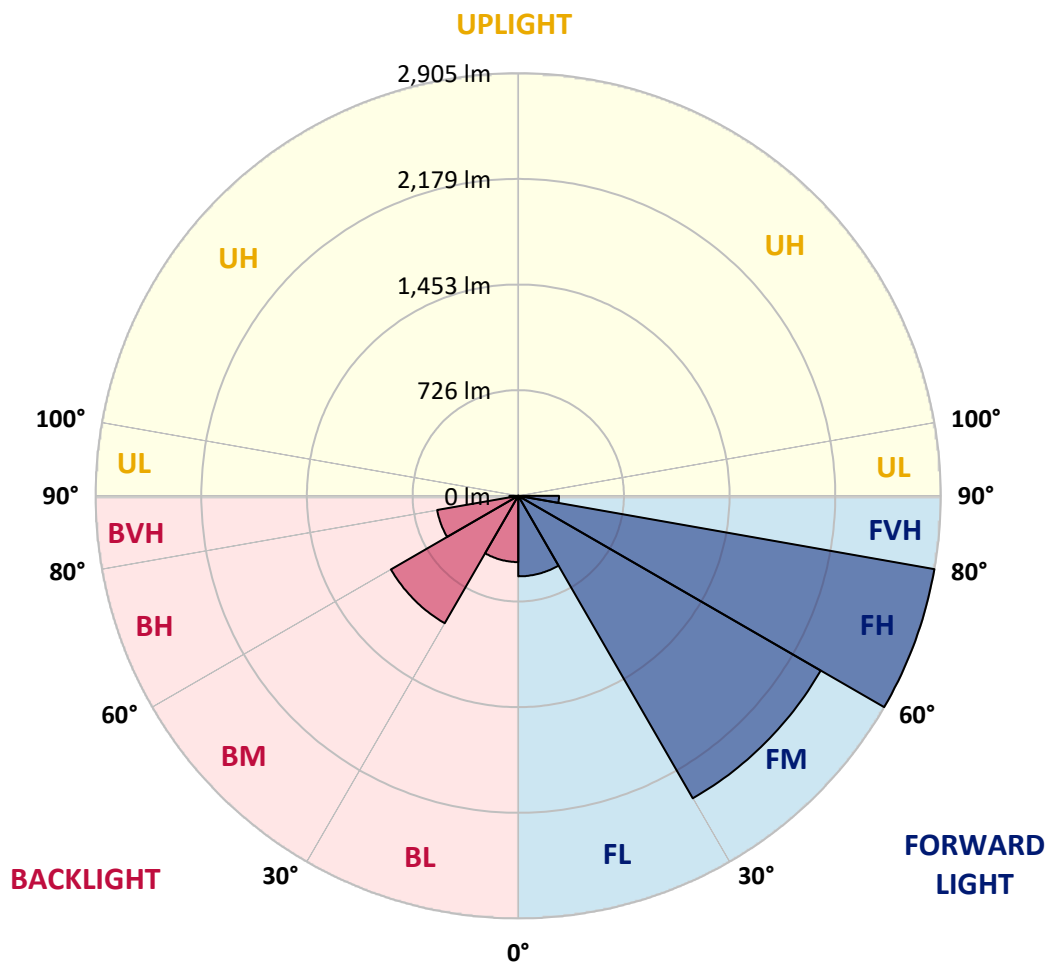
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	553.8	6.7			
FM	(30°-60°)	2401.3	29.2			
FH	(60°-80°)	2905.4	35.3			G2/5000
FVH	(80°-90°)	280.0	3.4			G3/500
BL	(0°-30°)	455.6	5.5	B1/500		
BM	(30°-60°)	1011.2	12.3	B2/2500		
BH	(60°-80°)	565.7	6.9	B2/1000		G2/1000
BVH	(80°-90°)	59.9	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°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1
2.5°	1217.4	1222.0	1226.7	1233.3	1239.8	1243.7	1247.6	1249.6	1251.5	1250.7	1251.5
5°	1309.1	1325.2	1341.4	1357.4	1373.4	1382.1	1390.8	1396.0	1401.4	1405.4	1401.4
7.5°	1401.2	1427.4	1453.7	1477.2	1500.8	1515.1	1529.2	1536.9	1544.6	1548.3	1544.6
10°	1471.8	1502.9	1533.8	1561.5	1589.2	1606.0	1622.6	1630.1	1637.5	1640.3	1637.5
12.5°	1515.1	1548.7	1582.2	1607.2	1632.2	1644.3	1656.5	1660.6	1664.7	1665.1	1664.7
15°	1541.3	1570.3	1599.3	1615.0	1630.7	1631.2	1631.6	1627.2	1622.9	1617.8	1622.9
17.5°	1556.1	1575.6	1595.2	1595.5	1595.8	1578.2	1560.7	1544.5	1528.4	1517.0	1528.4
20°	1572.4	1579.2	1586.1	1565.4	1544.8	1505.9	1467.1	1438.8	1410.5	1393.2	1410.5
22.5°	1591.2	1582.3	1573.4	1530.6	1487.9	1430.7	1373.6	1338.2	1302.9	1283.7	1302.9
25°	1615.6	1587.3	1559.1	1494.2	1429.3	1360.0	1290.6	1253.4	1216.3	1198.1	1216.3
27.5°	1648.6	1598.1	1547.6	1461.6	1375.7	1298.8	1221.9	1185.3	1148.8	1131.6	1148.8
30°	1693.1	1617.9	1542.6	1436.7	1331.0	1250.8	1170.8	1136.8	1102.9	1086.9	1102.9
32.5°	1745.7	1642.6	1539.6	1419.8	1300.1	1224.9	1149.5	1122.9	1096.2	1084.8	1096.2
35°	1809.5	1683.4	1557.3	1432.5	1307.8	1255.5	1203.2	1197.0	1190.8	1189.8	1190.8
37.5°	1917.1	1768.6	1620.3	1506.9	1393.5	1390.1	1386.7	1415.1	1443.5	1458.4	1443.5
40°	2079.5	1918.2	1756.7	1672.5	1588.1	1647.7	1707.1	1776.2	1845.3	1879.7	1845.3
42.5°	2295.0	2134.9	1974.8	1926.2	1877.6	2007.5	2137.2	2262.9	2388.5	2462.3	2388.5
45°	2561.1	2417.3	2273.3	2251.9	2230.5	2438.5	2646.4	2852.9	3059.3	3184.7	3059.3
47.5°	2893.9	2754.0	2614.0	2609.6	2605.2	2905.3	3205.2	3507.4	3809.6	3987.0	3809.6
50°	3330.0	3157.1	2984.3	2985.1	2985.8	3372.5	3759.1	4158.0	4556.9	4798.1	4556.9
52.5°	3830.6	3621.3	3412.1	3390.9	3369.8	3831.6	4293.4	4787.0	5280.5	5569.6	5280.5
55°	4363.6	4156.9	3950.1	3867.6	3785.1	4299.2	4813.1	5401.5	5989.9	6333.8	5989.9
57.5°	4848.5	4735.9	4623.3	4457.7	4292.4	4811.3	5330.3	5996.9	6663.2	7089.6	6663.2
60°	5141.5	5316.4	5491.3	5285.8	5080.4	5571.5	6062.7	6776.3	7489.8	7950.6	7489.8
62.5°	4992.7	5470.6	5948.5	5925.3	5902.2	6352.0	6802.0	7481.0	8159.8	8585.7	8159.8
65°	4694.9	5143.4	5592.0	5680.8	5769.4	6341.3	6913.0	7571.4	8229.6	8592.3	8229.6
67.5°	4295.9	4722.5	5149.1	5190.7	5232.3	5828.0	6423.8	7084.9	7746.0	8030.2	7746.0
70°	3816.6	4280.5	4744.6	4763.2	4781.8	5314.5	5847.3	6416.2	6985.2	7143.0	6985.2
72.5°	3245.3	3777.7	4310.2	4323.7	4337.0	4753.7	5170.6	5596.7	6022.8	6038.8	6022.8
75°	2522.6	3073.8	3624.8	3674.3	3723.8	4048.0	4372.3	4672.4	4972.3	4891.9	4972.3
77.5°	1802.4	2316.8	2831.3	2902.1	2972.9	3219.4	3465.9	3678.7	3891.5	3753.3	3891.5
80°	1179.7	1612.4	2045.2	2133.2	2221.3	2407.4	2593.6	2705.3	2816.9	2594.8	2816.9
82.5°	685.7	981.6	1277.6	1375.9	1474.2	1602.4	1730.5	1777.1	1823.7	1649.0	1823.7
85°	301.7	458.8	615.8	699.4	783.0	888.4	993.6	1020.1	1046.5	906.6	1046.5
87.5°	93.4	146.2	199.0	245.6	292.2	344.9	397.6	399.9	402.0	337.5	402.0
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°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1
2.5°	1249.6	1247.6	1243.7	1239.8	1233.3	1226.7	1222.0	1217.4	1208.1	1198.7	1188.8
5°	1396.0	1390.8	1382.1	1373.4	1357.4	1341.4	1325.2	1309.1	1288.4	1267.8	1247.2
7.5°	1536.9	1529.2	1515.1	1500.8	1477.2	1453.7	1427.4	1401.2	1367.1	1333.1	1301.6
10°	1630.1	1622.6	1606.0	1589.2	1561.5	1533.8	1502.9	1471.8	1428.7	1385.7	1344.1
12.5°	1660.6	1656.5	1644.3	1632.2	1607.2	1582.2	1548.7	1515.1	1467.7	1420.4	1373.4
15°	1627.2	1631.6	1631.2	1630.7	1615.0	1599.3	1570.3	1541.3	1492.0	1442.7	1391.6
17.5°	1544.5	1560.7	1578.2	1595.8	1595.5	1595.2	1575.6	1556.1	1506.0	1456.1	1400.4
20°	1438.8	1467.1	1505.9	1544.8	1565.4	1586.1	1579.2	1572.4	1520.4	1468.4	1407.1
22.5°	1338.2	1373.6	1430.7	1487.9	1530.6	1573.4	1582.3	1591.2	1538.2	1485.0	1416.3
25°	1253.4	1290.6	1360.0	1429.3	1494.2	1559.1	1587.3	1615.6	1563.5	1511.6	1433.1
27.5°	1185.3	1221.9	1298.8	1375.7	1461.6	1547.6	1598.1	1648.6	1599.0	1549.3	1459.1
30°	1136.8	1170.8	1250.8	1331.0	1436.7	1542.6	1617.9	1693.1	1645.1	1597.3	1492.8
32.5°	1122.9	1149.5	1224.9	1300.1	1419.8	1539.6	1642.6	1745.7	1698.2	1650.8	1528.1
35°	1197.0	1203.2	1255.5	1307.8	1432.5	1557.3	1683.4	1809.5	1764.1	1718.6	1568.2
37.5°	1415.1	1386.7	1390.1	1393.5	1506.9	1620.3	1768.6	1917.1	1859.1	1801.1	1613.1
40°	1776.2	1707.1	1647.7	1588.1	1672.5	1756.7	1918.2	2079.5	1995.1	1910.6	1670.2
42.5°	2262.9	2137.2	2007.5	1877.6	1926.2	1974.8	2134.9	2295.0	2173.1	2051.2	1745.0
45°	2852.9	2646.4	2438.5	2230.5	2251.9	2273.3	2417.3	2561.1	2396.7	2232.2	1843.3
47.5°	3507.4	3205.2	2905.3	2605.2	2609.6	2614.0	2754.0	2893.9	2662.4	2431.0	1947.9
50°	4158.0	3759.1	3372.5	2985.8	2985.1	2984.3	3157.1	3330.0	2981.1	2632.2	2045.1
52.5°	4787.0	4293.4	3831.6	3369.8	3390.9	3412.1	3621.3	3830.6	3315.9	2801.1	2108.1
55°	5401.5	4813.1	4299.2	3785.1	3867.6	3950.1	4156.9	4363.6	3612.7	2861.7	2094.2
57.5°	5996.9	5330.3	4811.3	4292.4	4457.7	4623.3	4735.9	4848.5	3823.0	2797.5	1996.4
60°	6776.3	6062.7	5571.5	5080.4	5285.8	5491.3	5316.4	5141.5	3875.5	2609.6	1814.4
62.5°	7481.0	6802.0	6352.0	5902.2	5925.3	5948.5	5470.6	4992.7	3654.2	2315.8	1568.1
65°	7571.4	6913.0	6341.3	5769.4	5680.8	5592.0	5143.4	4694.9	3341.1	1987.3	1316.9
67.5°	7084.9	6423.8	5828.0	5232.3	5190.7	5149.1	4722.5	4295.9	2968.4	1640.8	1070.9
70°	6416.2	5847.3	5314.5	4781.8	4763.2	4744.6	4280.5	3816.6	2561.8	1307.0	843.2
72.5°	5596.7	5170.6	4753.7	4337.0	4323.7	4310.2	3777.7	3245.3	2120.9	996.5	644.6
75°	4672.4	4372.3	4048.0	3723.8	3674.3	3624.8	3073.8	2522.6	1615.5	708.5	467.9
77.5°	3678.7	3465.9	3219.4	2972.9	2902.1	2831.3	2316.8	1802.4	1130.8	459.1	317.0
80°	2705.3	2593.6	2407.4	2221.3	2133.2	2045.2	1612.4	1179.7	728.5	277.4	204.3
82.5°	1777.1	1730.5	1602.4	1474.2	1375.9	1277.6	981.6	685.7	421.7	157.6	125.7
85°	1020.1	993.6	888.4	783.0	699.4	615.8	458.8	301.7	189.6	77.7	67.1
87.5°	399.9	397.6	344.9	292.2	245.6	199.0	146.2	93.4	62.1	30.9	27.9
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°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1
2.5°	1179.0	1168.9	1159.0	1149.3	1139.8	1130.6	1120.2	1111.9	1103.6	1096.1	1088.7
5°	1226.7	1206.0	1185.3	1165.9	1146.7	1128.4	1110.4	1094.6	1078.9	1065.7	1052.5
7.5°	1270.2	1239.6	1209.0	1182.0	1155.0	1130.2	1106.8	1085.9	1065.0	1047.6	1030.2
10°	1302.6	1265.4	1228.2	1196.3	1164.3	1133.6	1108.5	1086.5	1064.4	1047.0	1029.6
12.5°	1326.2	1282.4	1238.5	1202.4	1166.3	1134.1	1110.7	1092.6	1074.6	1063.1	1051.6
15°	1340.5	1290.0	1239.4	1197.7	1155.9	1120.1	1101.5	1092.9	1084.2	1085.8	1087.3
17.5°	1344.6	1286.0	1227.3	1177.0	1126.8	1084.8	1073.2	1076.4	1079.5	1098.5	1117.4
20°	1345.9	1274.8	1203.8	1141.4	1079.1	1030.2	1027.2	1041.9	1056.7	1089.6	1122.5
22.5°	1347.7	1261.2	1174.8	1099.7	1024.7	968.9	974.9	996.7	1018.6	1056.2	1093.8
25°	1354.5	1247.7	1141.0	1053.1	965.2	908.2	924.2	949.5	974.6	1008.4	1042.1
27.5°	1368.8	1238.7	1108.6	1010.4	912.4	860.4	879.9	904.3	928.5	956.3	984.0
30°	1388.5	1234.5	1080.5	974.9	869.3	825.6	840.9	860.2	879.6	902.6	925.7
32.5°	1405.4	1229.3	1053.1	944.1	835.2	800.0	806.8	818.3	829.6	848.0	866.4
35°	1417.9	1219.4	1021.2	914.0	806.7	777.4	774.6	777.7	780.8	794.9	808.8
37.5°	1425.3	1202.6	980.1	878.4	776.7	751.1	740.8	737.3	733.8	743.8	753.9
40°	1429.9	1179.6	929.2	836.0	742.8	719.7	703.8	695.9	688.0	695.3	702.5
42.5°	1438.7	1155.6	872.7	789.2	705.8	684.4	664.4	654.1	643.6	649.4	655.5
45°	1454.2	1133.4	812.7	739.5	666.4	644.6	625.4	615.2	605.1	610.0	615.0
47.5°	1464.8	1115.1	765.4	700.3	635.1	607.1	590.5	581.9	573.4	578.1	582.8
50°	1457.9	1095.1	732.4	674.1	615.9	579.0	559.8	552.2	544.7	552.0	559.3
52.5°	1415.1	1061.4	707.7	656.9	606.2	563.9	536.9	529.4	521.9	532.9	543.9
55°	1326.7	1005.4	684.1	644.4	604.8	565.4	524.7	512.9	501.1	516.7	532.3
57.5°	1195.3	926.5	657.7	629.7	601.7	566.9	517.4	500.2	483.0	499.8	516.5
60°	1019.1	824.1	629.1	607.1	585.1	562.1	510.6	488.2	465.9	480.6	495.3
62.5°	820.5	701.5	582.5	567.8	553.2	550.4	502.6	474.7	446.8	456.1	465.5
65°	646.8	591.2	535.7	528.7	521.8	522.1	485.6	456.0	426.4	430.0	433.6
67.5°	500.9	485.2	469.3	473.2	477.0	476.1	455.6	430.9	406.3	405.2	404.1
70°	379.5	384.0	388.5	406.3	424.2	424.2	417.5	400.0	382.3	378.4	374.5
72.5°	292.7	306.3	319.9	345.3	370.6	374.9	374.9	363.0	351.0	345.2	339.5
75°	227.2	239.6	251.9	280.3	308.7	328.4	326.8	317.5	308.2	302.8	297.2
77.5°	175.0	183.4	191.8	219.4	246.9	279.3	278.5	271.0	263.6	258.0	252.5
80°	131.2	134.7	138.2	161.5	184.8	223.6	223.3	217.2	210.9	206.2	201.6
82.5°	93.8	94.4	95.0	112.2	129.5	162.5	164.3	161.2	158.3	154.9	151.6
85°	56.7	56.4	56.1	68.7	81.3	105.8	108.1	105.0	101.7	98.0	94.3
87.5°	24.8	24.5	24.2	29.4	34.5	44.8	47.8	46.4	45.2	44.5	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961556

CATALOG NUMBER: NAV-SB2A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1
2.5°	1082.1	1075.5	1068.9	1062.3	1057.3	1052.2	1048.1	1043.9	1040.7	1037.5	1034.5
5°	1040.9	1029.2	1018.6	1008.1	999.9	991.8	986.0	980.4	976.3	972.3	969.2
7.5°	1015.6	1000.9	987.9	975.1	965.3	955.7	948.9	942.2	937.5	932.9	930.1
10°	1013.8	998.0	983.5	968.9	957.5	945.8	938.3	930.6	926.2	921.8	919.5
12.5°	1039.2	1026.8	1011.8	996.7	982.0	967.2	957.5	947.7	942.8	937.9	935.9
15°	1084.1	1080.9	1067.8	1054.7	1033.7	1012.7	997.8	983.0	976.2	969.3	966.8
17.5°	1127.5	1137.5	1127.0	1116.4	1088.6	1060.8	1038.8	1017.0	1006.9	996.7	993.4
20°	1143.6	1164.7	1159.8	1154.9	1123.1	1091.2	1064.4	1037.6	1024.7	1011.8	1007.6
22.5°	1121.1	1148.6	1151.6	1154.5	1124.0	1093.7	1066.0	1038.3	1024.7	1011.1	1006.6
25°	1069.2	1096.1	1106.2	1116.2	1091.3	1066.4	1041.8	1017.3	1005.5	993.7	989.4
27.5°	1005.6	1027.3	1038.5	1049.8	1032.0	1014.2	995.2	976.1	968.2	960.2	958.3
30°	943.6	961.6	970.7	979.8	966.3	952.7	939.1	925.4	921.4	917.3	917.3
32.5°	883.7	900.9	911.0	921.2	908.8	896.3	885.4	874.4	871.9	869.2	869.5
35°	825.9	843.0	855.2	867.4	858.4	849.6	839.6	829.5	825.4	821.4	820.6
37.5°	770.9	787.9	803.0	817.9	814.0	809.9	800.6	791.3	783.9	776.6	772.7
40°	718.9	735.3	752.7	770.0	771.0	771.9	764.1	756.2	745.6	734.9	727.7
42.5°	671.0	686.5	705.3	724.0	729.0	733.9	727.3	720.7	707.5	694.2	683.7
45°	629.9	644.6	664.0	683.4	690.5	697.7	691.7	685.7	670.6	655.5	643.2
47.5°	597.3	611.6	630.8	649.8	658.2	666.4	662.3	658.0	644.6	631.1	619.7
50°	573.0	586.5	603.6	620.7	631.4	642.0	641.8	641.5	630.8	620.0	609.5
52.5°	556.4	568.9	584.8	600.8	613.4	625.9	628.1	630.4	621.7	612.8	603.4
55°	545.7	559.1	573.2	587.1	600.4	613.8	616.8	620.0	612.3	604.8	596.4
57.5°	532.3	548.2	562.0	575.8	589.3	602.6	605.8	609.0	601.3	593.5	585.4
60°	513.5	531.7	545.7	559.8	573.2	586.7	590.2	593.6	586.1	578.5	570.1
62.5°	486.7	507.8	522.9	537.8	550.1	562.5	565.8	569.2	562.3	555.6	546.6
65°	456.2	479.0	493.2	507.6	518.4	529.3	532.8	536.2	529.6	523.1	514.4
67.5°	425.0	445.9	459.5	473.0	482.5	491.8	495.2	498.5	492.4	486.5	478.5
70°	393.0	411.4	423.1	434.8	443.3	451.8	455.0	458.2	453.4	448.4	440.7
72.5°	354.0	368.5	379.0	389.7	398.0	406.3	410.1	413.9	409.8	405.7	398.4
75°	308.0	318.8	328.4	337.9	345.5	353.1	357.1	361.1	359.1	357.1	351.0
77.5°	261.3	270.0	278.3	286.5	294.5	302.4	306.1	309.9	307.1	304.2	298.0
80°	208.9	216.1	223.0	230.0	236.1	242.1	247.0	251.9	250.7	249.6	241.3
82.5°	151.0	150.4	148.0	145.5	158.4	171.3	179.7	188.1	187.6	187.1	180.0
85°	91.1	87.9	81.3	74.5	86.5	98.6	109.1	119.4	118.6	117.8	112.2
87.5°	43.7	43.6	38.4	33.2	38.2	43.4	47.6	51.8	50.7	49.6	46.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961556

CATALOG NUMBER: NAV-SB2A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1
2.5°	1031.6	1027.9	1031.6	1034.5	1037.5	1040.7	1043.9	1048.1	1052.2	1057.3	1062.3
5°	966.2	963.1	966.2	969.2	972.3	976.3	980.4	986.0	991.8	999.9	1008.1
7.5°	927.4	925.3	927.4	930.1	932.9	937.5	942.2	948.9	955.7	965.3	975.1
10°	917.2	916.1	917.2	919.5	921.8	926.2	930.6	938.3	945.8	957.5	968.9
12.5°	933.9	933.6	933.9	935.9	937.9	942.8	947.7	957.5	967.2	982.0	996.7
15°	964.2	964.0	964.2	966.8	969.3	976.2	983.0	997.8	1012.7	1033.7	1054.7
17.5°	990.1	989.6	990.1	993.4	996.7	1006.9	1017.0	1038.8	1060.8	1088.6	1116.4
20°	1003.5	1002.1	1003.5	1007.6	1011.8	1024.7	1037.6	1064.4	1091.2	1123.1	1154.9
22.5°	1001.9	1000.0	1001.9	1006.6	1011.1	1024.7	1038.3	1066.0	1093.7	1124.0	1154.5
25°	985.1	982.7	985.1	989.4	993.7	1005.5	1017.3	1041.8	1066.4	1091.3	1116.2
27.5°	956.3	955.7	956.3	958.3	960.2	968.2	976.1	995.2	1014.2	1032.0	1049.8
30°	917.3	917.9	917.3	917.3	917.3	921.4	925.4	939.1	952.7	966.3	979.8
32.5°	869.9	870.5	869.9	869.5	869.2	871.9	874.4	885.4	896.3	908.8	921.2
35°	819.7	819.3	819.7	820.6	821.4	825.4	829.5	839.6	849.6	858.4	867.4
37.5°	769.0	766.7	769.0	772.7	776.6	783.9	791.3	800.6	809.9	814.0	817.9
40°	720.6	716.4	720.6	727.7	734.9	745.6	756.2	764.1	771.9	771.0	770.0
42.5°	673.2	666.4	673.2	683.7	694.2	707.5	720.7	727.3	733.9	729.0	724.0
45°	630.9	623.0	630.9	643.2	655.5	670.6	685.7	691.7	697.7	690.5	683.4
47.5°	608.4	600.8	608.4	619.7	631.1	644.6	658.0	662.3	666.4	658.2	649.8
50°	599.0	591.6	599.0	609.5	620.0	630.8	641.5	641.8	642.0	631.4	620.7
52.5°	594.1	587.3	594.1	603.4	612.8	621.7	630.4	628.1	625.9	613.4	600.8
55°	588.1	582.1	588.1	596.4	604.8	612.3	620.0	616.8	613.8	600.4	587.1
57.5°	577.1	570.8	577.1	585.4	593.5	601.3	609.0	605.8	602.6	589.3	575.8
60°	561.7	555.1	561.7	570.1	578.5	586.1	593.6	590.2	586.7	573.2	559.8
62.5°	537.8	530.0	537.8	546.6	555.6	562.3	569.2	565.8	562.5	550.1	537.8
65°	505.8	499.2	505.8	514.4	523.1	529.6	536.2	532.8	529.3	518.4	507.6
67.5°	470.5	464.4	470.5	478.5	486.5	492.4	498.5	495.2	491.8	482.5	473.0
70°	433.1	426.2	433.1	440.7	448.4	453.4	458.2	455.0	451.8	443.3	434.8
72.5°	391.1	384.5	391.1	398.4	405.7	409.8	413.9	410.1	406.3	398.0	389.7
75°	344.8	338.5	344.8	351.0	357.1	359.1	361.1	357.1	353.1	345.5	337.9
77.5°	291.8	286.7	291.8	298.0	304.2	307.1	309.9	306.1	302.4	294.5	286.5
80°	233.0	223.2	233.0	241.3	249.6	250.7	251.9	247.0	242.1	236.1	230.0
82.5°	173.0	166.8	173.0	180.0	187.1	187.6	188.1	179.7	171.3	158.4	145.5
85°	106.8	101.2	106.8	112.2	117.8	118.6	119.4	109.1	98.6	86.5	74.5
87.5°	44.0	41.3	44.0	46.8	49.6	50.7	51.8	47.6	43.4	38.2	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961556

CATALOG NUMBER: NAV-SB2A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1
2.5°	1068.9	1075.5	1082.1	1088.7	1096.1	1103.6	1111.9	1120.2	1130.6	1139.8	1149.3
5°	1018.6	1029.2	1040.9	1052.5	1065.7	1078.9	1094.6	1110.4	1128.4	1146.7	1165.9
7.5°	987.9	1000.9	1015.6	1030.2	1047.6	1065.0	1085.9	1106.8	1130.2	1155.0	1182.0
10°	983.5	998.0	1013.8	1029.6	1047.0	1064.4	1086.5	1108.5	1133.6	1164.3	1196.3
12.5°	1011.8	1026.8	1039.2	1051.6	1063.1	1074.6	1092.6	1110.7	1134.1	1166.3	1202.4
15°	1067.8	1080.9	1084.1	1087.3	1085.8	1084.2	1092.9	1101.5	1120.1	1155.9	1197.7
17.5°	1127.0	1137.5	1127.5	1117.4	1098.5	1079.5	1076.4	1073.2	1084.8	1126.8	1177.0
20°	1159.8	1164.7	1143.6	1122.5	1089.6	1056.7	1041.9	1027.2	1030.2	1079.1	1141.4
22.5°	1151.6	1148.6	1121.1	1093.8	1056.2	1018.6	996.7	974.9	968.9	1024.7	1099.7
25°	1106.2	1096.1	1069.2	1042.1	1008.4	974.6	949.5	924.2	908.2	965.2	1053.1
27.5°	1038.5	1027.3	1005.6	984.0	956.3	928.5	904.3	879.9	860.4	912.4	1010.4
30°	970.7	961.6	943.6	925.7	902.6	879.6	860.2	840.9	825.6	869.3	974.9
32.5°	911.0	900.9	883.7	866.4	848.0	829.6	818.3	806.8	800.0	835.2	944.1
35°	855.2	843.0	825.9	808.8	794.9	780.8	777.7	774.6	777.4	806.7	914.0
37.5°	803.0	787.9	770.9	753.9	743.8	733.8	737.3	740.8	751.1	776.7	878.4
40°	752.7	735.3	718.9	702.5	695.3	688.0	695.9	703.8	719.7	742.8	836.0
42.5°	705.3	686.5	671.0	655.5	649.4	643.6	654.1	664.4	684.4	705.8	789.2
45°	664.0	644.6	629.9	615.0	610.0	605.1	615.2	625.4	644.6	666.4	739.5
47.5°	630.8	611.6	597.3	582.8	578.1	573.4	581.9	590.5	607.1	635.1	700.3
50°	603.6	586.5	573.0	559.3	552.0	544.7	552.2	559.8	579.0	615.9	674.1
52.5°	584.8	568.9	556.4	543.9	532.9	521.9	529.4	536.9	563.9	606.2	656.9
55°	573.2	559.1	545.7	532.3	516.7	501.1	512.9	524.7	565.4	604.8	644.4
57.5°	562.0	548.2	532.3	516.5	499.8	483.0	500.2	517.4	566.9	601.7	629.7
60°	545.7	531.7	513.5	495.3	480.6	465.9	488.2	510.6	562.1	585.1	607.1
62.5°	522.9	507.8	486.7	465.5	456.1	446.8	474.7	502.6	550.4	553.2	567.8
65°	493.2	479.0	456.2	433.6	430.0	426.4	456.0	485.6	522.1	521.8	528.7
67.5°	459.5	445.9	425.0	404.1	405.2	406.3	430.9	455.6	476.1	477.0	473.2
70°	423.1	411.4	393.0	374.5	378.4	382.3	400.0	417.5	424.2	424.2	406.3
72.5°	379.0	368.5	354.0	339.5	345.2	351.0	363.0	374.9	374.9	370.6	345.3
75°	328.4	318.8	308.0	297.2	302.8	308.2	317.5	326.8	328.4	308.7	280.3
77.5°	278.3	270.0	261.3	252.5	258.0	263.6	271.0	278.5	279.3	246.9	219.4
80°	223.0	216.1	208.9	201.6	206.2	210.9	217.2	223.3	223.6	184.8	161.5
82.5°	148.0	150.4	151.0	151.6	154.9	158.3	161.2	164.3	162.5	129.5	112.2
85°	81.3	87.9	91.1	94.3	98.0	101.7	105.0	108.1	105.8	81.3	68.7
87.5°	38.4	43.6	43.7	43.8	44.5	45.2	46.4	47.8	44.8	34.5	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961556

CATALOG NUMBER: NAV-SB2A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1	1132.1
2.5°	1159.0	1168.9	1179.0	1188.8	1198.7	1208.1	1217.4
5°	1185.3	1206.0	1226.7	1247.2	1267.8	1288.4	1309.1
7.5°	1209.0	1239.6	1270.2	1301.6	1333.1	1367.1	1401.2
10°	1228.2	1265.4	1302.6	1344.1	1385.7	1428.7	1471.8
12.5°	1238.5	1282.4	1326.2	1373.4	1420.4	1467.7	1515.1
15°	1239.4	1290.0	1340.5	1391.6	1442.7	1492.0	1541.3
17.5°	1227.3	1286.0	1344.6	1400.4	1456.1	1506.0	1556.1
20°	1203.8	1274.8	1345.9	1407.1	1468.4	1520.4	1572.4
22.5°	1174.8	1261.2	1347.7	1416.3	1485.0	1538.2	1591.2
25°	1141.0	1247.7	1354.5	1433.1	1511.6	1563.5	1615.6
27.5°	1108.6	1238.7	1368.8	1459.1	1549.3	1599.0	1648.6
30°	1080.5	1234.5	1388.5	1492.8	1597.3	1645.1	1693.1
32.5°	1053.1	1229.3	1405.4	1528.1	1650.8	1698.2	1745.7
35°	1021.2	1219.4	1417.9	1568.2	1718.6	1764.1	1809.5
37.5°	980.1	1202.6	1425.3	1613.1	1801.1	1859.1	1917.1
40°	929.2	1179.6	1429.9	1670.2	1910.6	1995.1	2079.5
42.5°	872.7	1155.6	1438.7	1745.0	2051.2	2173.1	2295.0
45°	812.7	1133.4	1454.2	1843.3	2232.2	2396.7	2561.1
47.5°	765.4	1115.1	1464.8	1947.9	2431.0	2662.4	2893.9
50°	732.4	1095.1	1457.9	2045.1	2632.2	2981.1	3330.0
52.5°	707.7	1061.4	1415.1	2108.1	2801.1	3315.9	3830.6
55°	684.1	1005.4	1326.7	2094.2	2861.7	3612.7	4363.6
57.5°	657.7	926.5	1195.3	1996.4	2797.5	3823.0	4848.5
60°	629.1	824.1	1019.1	1814.4	2609.6	3875.5	5141.5
62.5°	582.5	701.5	820.5	1568.1	2315.8	3654.2	4992.7
65°	535.7	591.2	646.8	1316.9	1987.3	3341.1	4694.9
67.5°	469.3	485.2	500.9	1070.9	1640.8	2968.4	4295.9
70°	388.5	384.0	379.5	843.2	1307.0	2561.8	3816.6
72.5°	319.9	306.3	292.7	644.6	996.5	2120.9	3245.3
75°	251.9	239.6	227.2	467.9	708.5	1615.5	2522.6
77.5°	191.8	183.4	175.0	317.0	459.1	1130.8	1802.4
80°	138.2	134.7	131.2	204.3	277.4	728.5	1179.7
82.5°	95.0	94.4	93.8	125.7	157.6	421.7	685.7
85°	56.1	56.4	56.7	67.1	77.7	189.6	301.7
87.5°	24.2	24.5	24.8	27.9	30.9	62.1	93.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)