

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: P961029

Luminaire Tested: **NAV-SB1D-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961029
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-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9341.8 lumens
Efficiency: N/A
Efficacy: 117.4 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

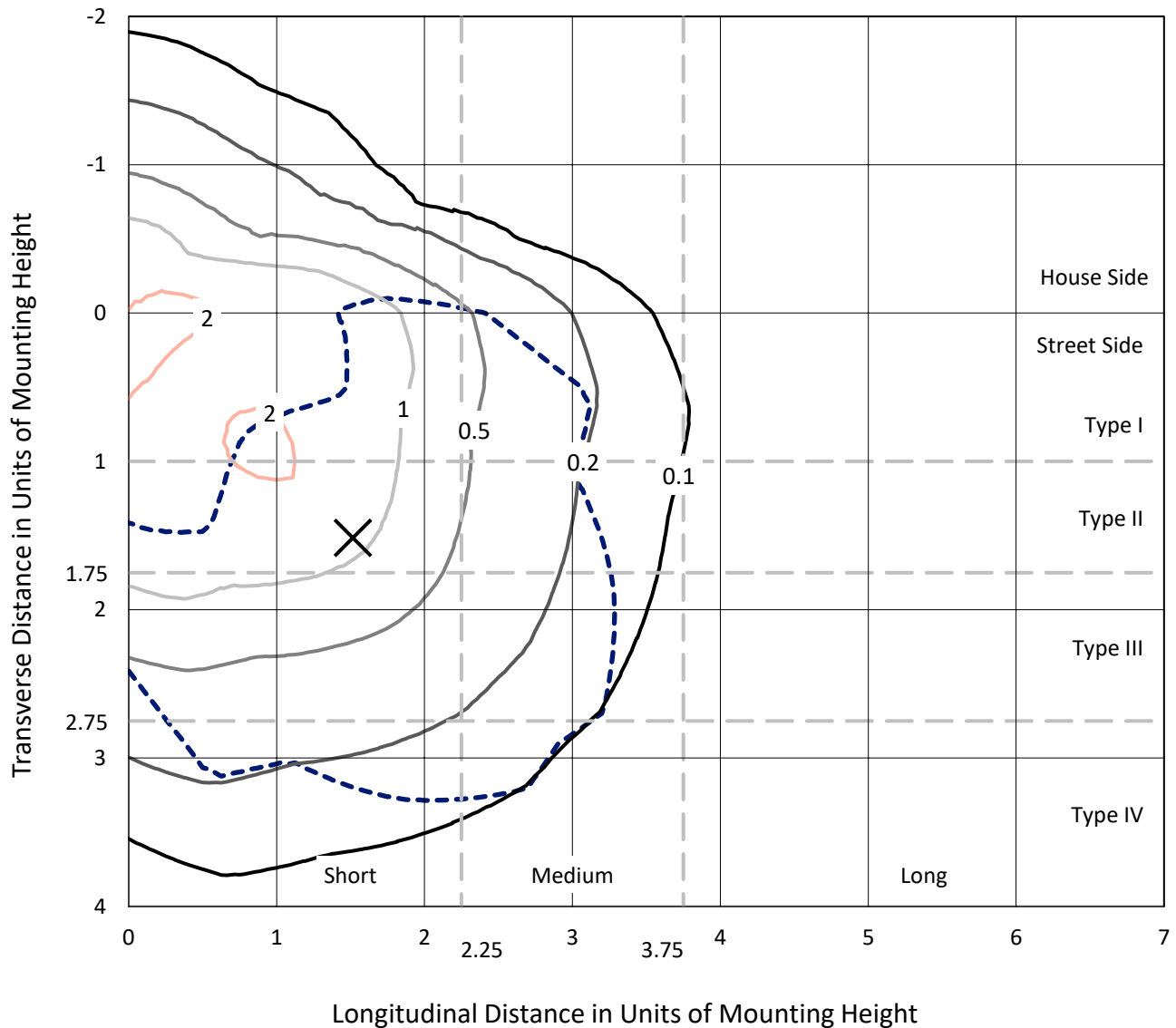
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

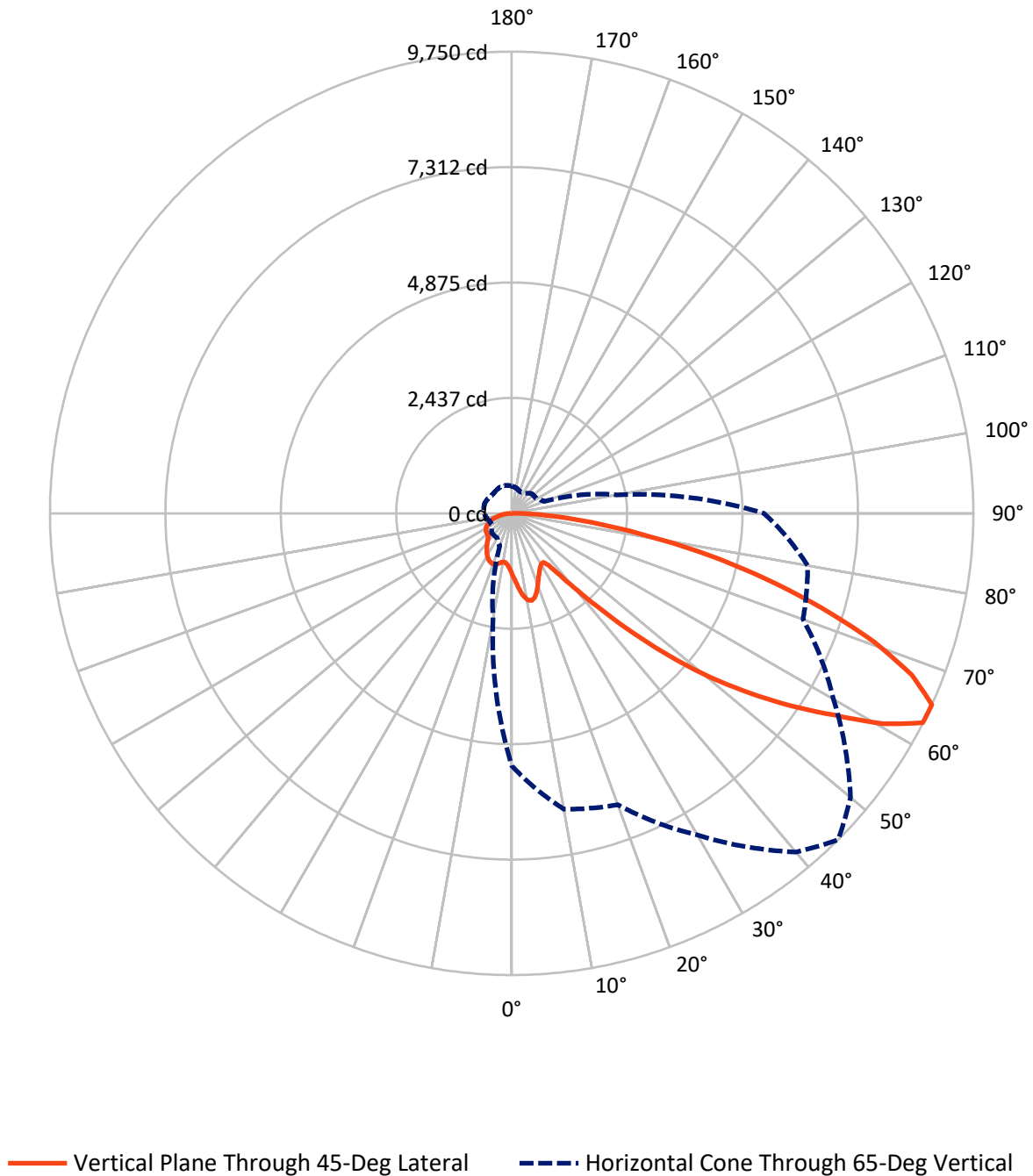
× Max cd
- - - 1/2 Max cd



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



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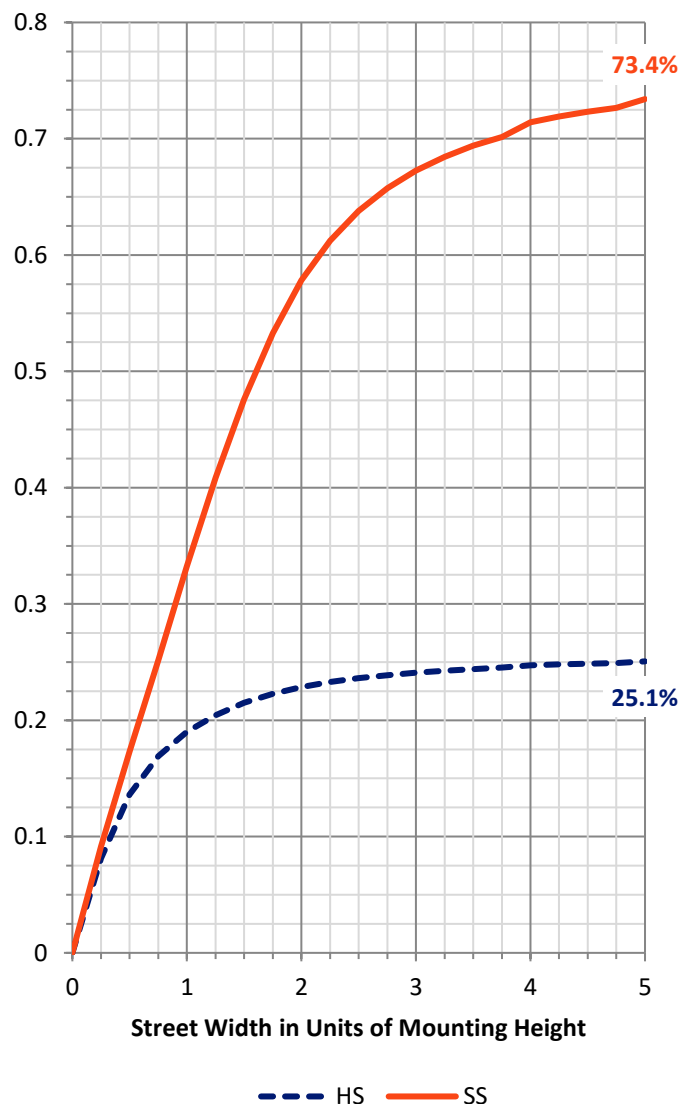
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2374.2	0.0	2374.2
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	6967.6	0.0	6967.6
	% Fixture	74.6	0.0	74.6
Total	Lumens	9341.8	0.0	9341.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.4
10°-20°	400.0	4.3
20°-30°	617.9	6.6
30°-40°	783.0	8.4
40°-50°	1181.0	12.6
50°-60°	1908.1	20.4
60°-70°	2378.8	25.5
70°-80°	1559.9	16.7
80°-90°	385.6	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°	9341.8	100.0
0°-180°	9341.8	100.0

Coefficient of Utilization



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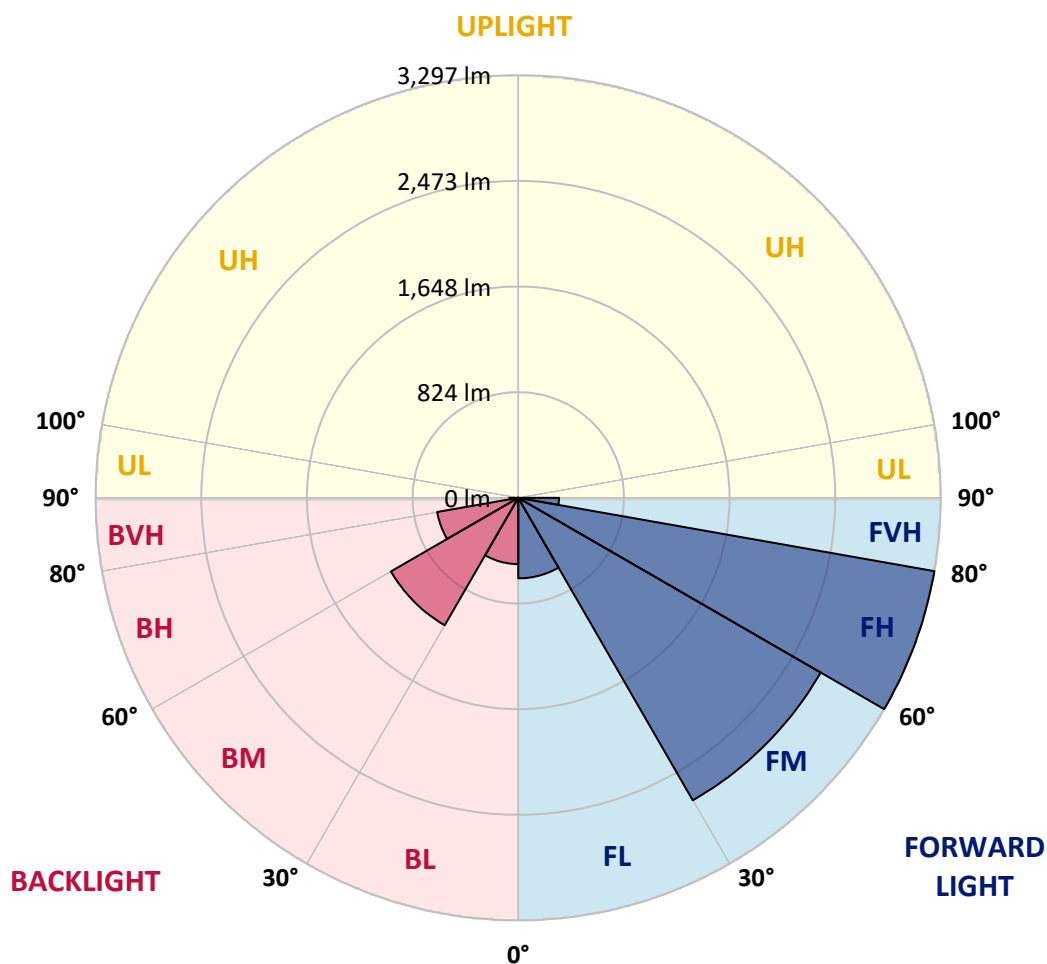
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.3	6.7			
FM	(30°-60°)	2724.8	29.2			
FH	(60°-80°)	3296.8	35.3			G2/5000
FVH	(80°-90°)	317.7	3.4			G3/500
BL	(0°-30°)	517.0	5.5	B2/1000		
BM	(30°-60°)	1147.4	12.3	B2/2500		
BH	(60°-80°)	641.9	6.9	B2/1000		G2/1000
BVH	(80°-90°)	68.0	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°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1381.5	1386.7	1391.9	1399.4	1406.8	1411.2	1415.7	1417.9	1420.1	1419.1	1420.1
5°	1485.4	1503.8	1522.1	1540.3	1558.4	1568.2	1578.1	1584.1	1590.1	1594.6	1590.1
7.5°	1590.0	1619.7	1649.4	1676.2	1703.0	1719.1	1735.2	1743.9	1752.6	1756.8	1752.6
10°	1670.0	1705.3	1740.4	1771.8	1803.3	1822.2	1841.2	1849.7	1858.1	1861.3	1858.1
12.5°	1719.1	1757.3	1795.4	1823.8	1852.1	1865.8	1879.6	1884.3	1889.0	1889.4	1889.0
15°	1749.0	1781.9	1814.8	1832.5	1850.3	1850.8	1851.4	1846.4	1841.5	1835.7	1841.5
17.5°	1765.7	1787.9	1810.2	1810.5	1810.8	1790.8	1770.9	1752.5	1734.2	1721.3	1734.2
20°	1784.2	1791.9	1799.7	1776.3	1752.9	1708.8	1664.7	1632.6	1600.5	1580.9	1600.5
22.5°	1805.6	1795.5	1785.3	1736.8	1688.3	1623.5	1558.6	1518.5	1478.4	1456.6	1478.4
25°	1833.2	1801.1	1769.2	1695.5	1621.9	1543.1	1464.4	1422.2	1380.2	1359.6	1380.2
27.5°	1870.7	1813.4	1756.0	1658.6	1561.0	1473.7	1386.5	1345.0	1303.6	1284.1	1303.6
30°	1921.2	1835.8	1750.4	1630.4	1510.2	1419.3	1328.5	1290.0	1251.4	1233.3	1251.4
32.5°	1980.8	1863.9	1746.9	1611.1	1475.3	1389.8	1304.4	1274.2	1243.9	1230.8	1243.9
35°	2053.3	1910.2	1767.1	1625.5	1484.0	1424.6	1365.3	1358.2	1351.3	1350.1	1351.3
37.5°	2175.4	2007.0	1838.5	1709.9	1581.3	1577.4	1573.6	1605.8	1638.1	1654.8	1638.1
40°	2359.7	2176.6	1993.4	1897.8	1802.1	1869.6	1937.1	2015.5	2093.9	2132.9	2093.9
42.5°	2604.2	2422.5	2240.8	2185.7	2130.6	2277.9	2425.1	2567.7	2710.2	2793.9	2710.2
45°	2906.1	2742.9	2579.6	2555.3	2530.9	2766.9	3002.9	3237.2	3471.5	3613.7	3471.5
47.5°	3283.7	3124.9	2966.0	2961.1	2956.2	3296.6	3637.0	3979.9	4322.7	4524.1	4322.7
50°	3778.6	3582.5	3386.4	3387.2	3388.0	3826.7	4265.4	4718.1	5170.8	5444.5	5170.8
52.5°	4346.7	4109.2	3871.7	3847.7	3823.7	4347.7	4871.7	5431.8	5991.8	6319.9	5991.8
55°	4951.5	4716.8	4482.2	4388.6	4295.1	4878.3	5461.5	6129.1	6796.8	7187.0	6796.8
57.5°	5501.6	5373.9	5246.1	5058.3	4870.6	5459.5	6048.4	6804.7	7560.9	8044.7	7560.9
60°	5834.1	6032.5	6231.1	5997.9	5764.8	6322.1	6879.4	7689.0	8498.8	9021.6	8498.8
62.5°	5665.3	6207.6	6749.8	6723.6	6697.2	7207.8	7718.4	8488.7	9259.0	9742.3	9259.0
65°	5327.3	5836.3	6345.3	6446.0	6546.7	7195.5	7844.3	8591.2	9338.3	9749.7	9338.3
67.5°	4874.6	5358.7	5842.7	5890.0	5937.1	6613.2	7289.1	8039.3	8789.5	9111.8	8789.5
70°	4330.6	4857.2	5383.7	5404.8	5425.9	6030.5	6635.0	7280.6	7926.1	8105.3	7926.1
72.5°	3682.4	4286.7	4890.9	4906.1	4921.2	5394.2	5867.1	6350.7	6834.1	6852.2	6834.1
75°	2862.4	3487.8	4113.1	4169.3	4225.5	4593.4	4961.4	5301.7	5642.1	5550.9	5642.1
77.5°	2045.2	2628.9	3212.7	3293.0	3373.4	3653.1	3932.8	4174.2	4415.7	4259.0	4415.7
80°	1338.5	1829.6	2320.7	2420.6	2520.5	2731.7	2942.9	3069.7	3196.5	2944.3	3196.5
82.5°	778.1	1113.9	1449.7	1561.2	1672.8	1818.1	1963.6	2016.5	2069.4	1871.1	2069.4
85°	342.3	520.5	698.7	793.7	888.5	1008.0	1127.4	1157.4	1187.5	1028.8	1187.5
87.5°	106.0	165.8	225.8	278.7	331.7	391.3	451.1	453.7	456.2	383.0	456.2
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°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1417.9	1415.7	1411.2	1406.8	1399.4	1391.9	1386.7	1381.5	1370.8	1360.3	1349.0
5°	1584.1	1578.1	1568.2	1558.4	1540.3	1522.1	1503.8	1485.4	1462.1	1438.6	1415.2
7.5°	1743.9	1735.2	1719.1	1703.0	1676.2	1649.4	1619.7	1590.0	1551.3	1512.7	1477.0
10°	1849.7	1841.2	1822.2	1803.3	1771.8	1740.4	1705.3	1670.0	1621.2	1572.4	1525.2
12.5°	1884.3	1879.6	1865.8	1852.1	1823.8	1795.4	1757.3	1719.1	1665.4	1611.8	1558.4
15°	1846.4	1851.4	1850.8	1850.3	1832.5	1814.8	1781.9	1749.0	1693.0	1637.0	1579.0
17.5°	1752.5	1770.9	1790.8	1810.8	1810.5	1810.2	1787.9	1765.7	1709.0	1652.2	1589.0
20°	1632.6	1664.7	1708.8	1752.9	1776.3	1799.7	1791.9	1784.2	1725.2	1666.2	1596.7
22.5°	1518.5	1558.6	1623.5	1688.3	1736.8	1785.3	1795.5	1805.6	1745.4	1685.1	1607.2
25°	1422.2	1464.4	1543.1	1621.9	1695.5	1769.2	1801.1	1833.2	1774.2	1715.1	1626.1
27.5°	1345.0	1386.5	1473.7	1561.0	1658.6	1756.0	1813.4	1870.7	1814.4	1758.1	1655.7
30°	1290.0	1328.5	1419.3	1510.2	1630.4	1750.4	1835.8	1921.2	1866.8	1812.4	1693.9
32.5°	1274.2	1304.4	1389.8	1475.3	1611.1	1746.9	1863.9	1980.8	1927.0	1873.2	1734.0
35°	1358.2	1365.3	1424.6	1484.0	1625.5	1767.1	1910.2	2053.3	2001.7	1950.2	1779.5
37.5°	1605.8	1573.6	1577.4	1581.3	1709.9	1838.5	2007.0	2175.4	2109.6	2043.8	1830.5
40°	2015.5	1937.1	1869.6	1802.1	1897.8	1993.4	2176.6	2359.7	2263.8	2168.0	1895.3
42.5°	2567.7	2425.1	2277.9	2130.6	2185.7	2240.8	2422.5	2604.2	2465.8	2327.6	1980.0
45°	3237.2	3002.9	2766.9	2530.9	2555.3	2579.6	2742.9	2906.1	2719.5	2533.0	2091.5
47.5°	3979.9	3637.0	3296.6	2956.2	2961.1	2966.0	3124.9	3283.7	3021.1	2758.5	2210.3
50°	4718.1	4265.4	3826.7	3388.0	3387.2	3386.4	3582.5	3778.6	3382.7	2986.7	2320.5
52.5°	5431.8	4871.7	4347.7	3823.7	3847.7	3871.7	4109.2	4346.7	3762.6	3178.4	2392.1
55°	6129.1	5461.5	4878.3	4295.1	4388.6	4482.2	4716.8	4951.5	4099.4	3247.2	2376.4
57.5°	6804.7	6048.4	5459.5	4870.6	5058.3	5246.1	5373.9	5501.6	4338.0	3174.4	2265.4
60°	7689.0	6879.4	6322.1	5764.8	5997.9	6231.1	6032.5	5834.1	4397.7	2961.1	2058.7
62.5°	8488.7	7718.4	7207.8	6697.2	6723.6	6749.8	6207.6	5665.3	4146.5	2627.7	1779.4
65°	8591.2	7844.3	7195.5	6546.7	6446.0	6345.3	5836.3	5327.3	3791.2	2254.9	1494.3
67.5°	8039.3	7289.1	6613.2	5937.1	5890.0	5842.7	5358.7	4874.6	3368.3	1861.9	1215.1
70°	7280.6	6635.0	6030.5	5425.9	5404.8	5383.7	4857.2	4330.6	2906.8	1483.0	956.7
72.5°	6350.7	5867.1	5394.2	4921.2	4906.1	4890.9	4286.7	3682.4	2406.6	1130.8	731.4
75°	5301.7	4961.4	4593.4	4225.5	4169.3	4113.1	3487.8	2862.4	1833.2	803.9	530.8
77.5°	4174.2	3932.8	3653.1	3373.4	3293.0	3212.7	2628.9	2045.2	1283.1	520.9	359.8
80°	3069.7	2942.9	2731.7	2520.5	2420.6	2320.7	1829.6	1338.5	826.7	314.8	231.8
82.5°	2016.5	1963.6	1818.1	1672.8	1561.2	1449.7	1113.9	778.1	478.5	178.9	142.6
85°	1157.4	1127.4	1008.0	888.5	793.7	698.7	520.5	342.3	215.2	88.1	76.2
87.5°	453.7	451.1	391.3	331.7	278.7	225.8	165.8	106.0	70.5	35.0	31.6
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°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1337.7	1326.4	1315.1	1304.2	1293.3	1282.9	1271.2	1261.7	1252.3	1243.7	1235.3
5°	1391.9	1368.5	1345.0	1323.1	1301.1	1280.4	1259.9	1242.1	1224.2	1209.2	1194.3
7.5°	1441.4	1406.6	1371.9	1341.2	1310.6	1282.4	1255.9	1232.2	1208.5	1188.7	1169.0
10°	1478.0	1435.8	1393.6	1357.4	1321.1	1286.3	1257.9	1232.9	1207.8	1188.1	1168.4
12.5°	1504.9	1455.1	1405.4	1364.4	1323.4	1286.8	1260.3	1239.8	1219.4	1206.3	1193.3
15°	1521.1	1463.8	1406.4	1359.0	1311.6	1271.0	1249.8	1240.0	1230.3	1232.0	1233.8
17.5°	1525.7	1459.2	1392.7	1335.6	1278.6	1230.8	1217.8	1221.4	1225.0	1246.4	1267.9
20°	1527.2	1446.6	1365.9	1295.2	1224.6	1169.0	1165.5	1182.3	1199.0	1236.4	1273.8
22.5°	1529.2	1431.1	1333.0	1247.8	1162.8	1099.5	1106.3	1131.0	1155.8	1198.4	1241.1
25°	1537.0	1415.8	1294.7	1194.9	1095.3	1030.4	1048.7	1077.3	1105.9	1144.2	1182.5
27.5°	1553.2	1405.6	1258.0	1146.6	1035.2	976.2	998.5	1026.0	1053.6	1085.2	1116.6
30°	1575.5	1400.9	1226.0	1106.2	986.4	936.8	954.2	976.1	998.0	1024.2	1050.3
32.5°	1594.7	1394.9	1194.9	1071.3	947.7	907.7	915.4	928.4	941.4	962.3	983.2
35°	1608.8	1383.7	1158.8	1037.1	915.4	882.1	878.9	882.4	886.0	902.0	917.9
37.5°	1617.2	1364.7	1112.1	996.7	881.4	852.3	840.5	836.6	832.7	844.1	855.5
40°	1622.5	1338.4	1054.4	948.6	843.0	816.5	798.6	789.7	780.7	788.9	797.1
42.5°	1632.5	1311.3	990.3	895.5	800.9	776.6	754.0	742.1	730.3	737.0	743.7
45°	1650.0	1286.1	922.2	839.2	756.1	731.5	709.6	698.0	686.5	692.2	697.9
47.5°	1662.1	1265.3	868.5	794.6	720.7	688.9	670.0	660.3	650.7	656.0	661.2
50°	1654.2	1242.6	831.0	765.0	698.8	657.1	635.2	626.6	618.1	626.3	634.7
52.5°	1605.8	1204.4	803.0	745.4	687.9	639.8	609.2	600.6	592.2	604.8	617.2
55°	1505.4	1140.8	776.2	731.2	686.2	641.5	595.3	582.0	568.6	586.3	603.9
57.5°	1356.3	1051.3	746.3	714.5	682.8	643.3	587.1	567.5	548.1	567.0	586.1
60°	1156.3	935.1	713.9	688.9	663.9	637.9	579.3	554.0	528.7	545.4	562.0
62.5°	931.0	796.0	660.9	644.3	627.7	624.5	570.2	538.5	507.0	517.6	528.2
65°	733.9	670.9	607.8	599.9	592.1	592.6	551.1	517.5	483.8	487.9	491.9
67.5°	568.5	550.5	532.6	537.0	541.3	540.3	517.0	489.0	460.9	459.7	458.4
70°	430.6	435.7	440.7	461.0	481.3	481.3	473.8	453.8	433.9	429.5	425.0
72.5°	332.1	347.6	363.1	391.9	420.6	425.4	425.5	411.8	398.2	391.7	385.2
75°	257.9	271.9	285.9	318.2	350.3	372.7	370.7	360.3	349.7	343.5	337.2
77.5°	198.5	208.1	217.6	249.0	280.2	316.9	316.0	307.5	299.1	292.8	286.5
80°	148.8	152.8	156.7	183.3	209.7	253.6	253.5	246.4	239.3	234.0	228.7
82.5°	106.4	107.1	107.8	127.4	146.9	184.4	186.4	183.0	179.5	175.8	172.0
85°	64.4	64.0	63.6	77.9	92.1	120.0	122.7	119.0	115.3	111.1	107.0
87.5°	28.2	27.9	27.5	33.3	39.2	50.7	54.2	52.8	51.2	50.4	49.7
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: P961029

CATALOG NUMBER: NAV-SB1D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1227.8	1220.4	1212.9	1205.5	1199.7	1193.9	1189.2	1184.5	1180.9	1177.2	1173.8
5°	1181.1	1167.9	1155.9	1143.9	1134.7	1125.3	1118.9	1112.4	1107.8	1103.3	1099.8
7.5°	1152.4	1135.7	1121.0	1106.4	1095.4	1084.4	1076.8	1069.1	1063.8	1058.6	1055.4
10°	1150.5	1132.5	1116.0	1099.5	1086.4	1073.2	1064.7	1056.0	1050.9	1046.0	1043.3
12.5°	1179.2	1165.2	1148.1	1131.0	1114.3	1097.5	1086.4	1075.3	1069.8	1064.3	1062.0
15°	1230.2	1226.5	1211.7	1196.9	1173.0	1149.1	1132.3	1115.4	1107.7	1100.0	1097.1
17.5°	1279.4	1290.8	1278.8	1266.8	1235.2	1203.7	1178.9	1153.9	1142.6	1131.0	1127.3
20°	1297.6	1321.5	1316.0	1310.5	1274.4	1238.2	1207.8	1177.4	1162.8	1148.0	1143.4
22.5°	1272.2	1303.3	1306.7	1309.9	1275.5	1241.0	1209.6	1178.2	1162.8	1147.3	1142.2
25°	1213.2	1243.7	1255.2	1266.6	1238.3	1210.0	1182.1	1154.4	1140.9	1127.6	1122.7
27.5°	1141.1	1165.7	1178.4	1191.2	1171.1	1150.9	1129.2	1107.6	1098.7	1089.7	1087.4
30°	1070.7	1091.1	1101.5	1111.8	1096.4	1081.1	1065.6	1050.0	1045.5	1040.8	1040.8
32.5°	1002.7	1022.2	1033.7	1045.3	1031.1	1017.0	1004.6	992.3	989.2	986.3	986.7
35°	937.2	956.5	970.4	984.1	974.1	964.1	952.6	941.3	936.6	932.1	931.1
37.5°	874.7	894.1	911.1	928.2	923.5	918.9	908.5	897.9	889.6	881.3	876.9
40°	815.8	834.5	854.0	873.7	874.8	876.0	867.0	858.1	845.9	833.9	825.7
42.5°	761.4	779.1	800.3	821.4	827.2	832.8	825.2	817.7	802.8	787.7	775.8
45°	714.6	731.4	753.4	775.4	783.5	791.6	784.8	778.1	760.9	743.7	729.8
47.5°	677.7	694.0	715.8	737.4	746.8	756.1	751.4	746.7	731.4	716.2	703.3
50°	650.2	665.5	685.0	704.4	716.5	728.5	728.2	728.0	715.8	703.6	691.6
52.5°	631.4	645.5	663.6	681.7	696.0	710.2	712.8	715.3	705.4	695.5	684.7
55°	619.2	634.5	650.4	666.2	681.3	696.4	700.0	703.6	694.8	686.1	676.8
57.5°	604.0	622.0	637.7	653.3	668.6	683.8	687.4	691.0	682.2	673.4	664.2
60°	582.6	603.2	619.2	635.2	650.5	665.7	669.6	673.6	665.0	656.5	646.9
62.5°	552.2	576.3	593.3	610.3	624.2	638.3	642.1	645.9	638.1	630.4	620.3
65°	517.7	543.5	559.8	575.9	588.3	600.6	604.5	608.3	601.0	593.5	583.7
67.5°	482.2	506.0	521.4	536.8	547.5	558.1	561.9	565.6	558.8	552.0	542.9
70°	445.9	466.8	480.1	493.4	503.1	512.6	516.3	520.0	514.3	508.8	500.1
72.5°	401.7	418.1	430.1	442.2	451.6	460.9	465.4	469.7	465.0	460.4	452.1
75°	349.5	361.7	372.6	383.5	392.1	400.7	405.2	409.7	407.4	405.2	398.2
77.5°	296.4	306.4	315.7	325.1	334.2	343.1	347.3	351.6	348.4	345.1	338.1
80°	237.0	245.3	253.1	261.0	267.8	274.7	280.2	285.9	284.5	283.2	273.8
82.5°	171.4	170.7	167.9	165.1	179.7	194.3	203.9	213.4	212.9	212.2	204.3
85°	103.4	99.8	92.1	84.6	98.2	111.9	123.7	135.6	134.6	133.6	127.4
87.5°	49.5	49.4	43.6	37.7	43.5	49.2	54.0	58.7	57.6	56.3	53.1
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: P961029

CATALOG NUMBER: NAV-SB1D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1170.4	1166.2	1170.4	1173.8	1177.2	1180.9	1184.5	1189.2	1193.9	1199.7	1205.5
5°	1096.2	1092.9	1096.2	1099.8	1103.3	1107.8	1112.4	1118.9	1125.3	1134.7	1143.9
7.5°	1052.3	1049.9	1052.3	1055.4	1058.6	1063.8	1069.1	1076.8	1084.4	1095.4	1106.4
10°	1040.7	1039.6	1040.7	1043.3	1046.0	1050.9	1056.0	1064.7	1073.2	1086.4	1099.5
12.5°	1059.7	1059.3	1059.7	1062.0	1064.3	1069.8	1075.3	1086.4	1097.5	1114.3	1131.0
15°	1094.1	1093.8	1094.1	1097.1	1100.0	1107.7	1115.4	1132.3	1149.1	1173.0	1196.9
17.5°	1123.5	1122.9	1123.5	1127.3	1131.0	1142.6	1153.9	1178.9	1203.7	1235.2	1266.8
20°	1138.7	1137.2	1138.7	1143.4	1148.0	1162.8	1177.4	1207.8	1238.2	1274.4	1310.5
22.5°	1136.9	1134.8	1136.9	1142.2	1147.3	1162.8	1178.2	1209.6	1241.0	1275.5	1309.9
25°	1117.9	1115.0	1117.9	1122.7	1127.6	1140.9	1154.4	1182.1	1210.0	1238.3	1266.6
27.5°	1085.2	1084.4	1085.2	1087.4	1089.7	1098.7	1107.6	1129.2	1150.9	1171.1	1191.2
30°	1040.8	1041.6	1040.8	1040.8	1040.8	1045.5	1050.0	1065.6	1081.1	1096.4	1111.8
32.5°	987.1	987.8	987.1	986.7	986.3	989.2	992.3	1004.6	1017.0	1031.1	1045.3
35°	930.2	929.7	930.2	931.1	932.1	936.6	941.3	952.6	964.1	974.1	984.1
37.5°	872.5	870.0	872.5	876.9	881.3	889.6	897.9	908.5	918.9	923.5	928.2
40°	817.6	812.8	817.6	825.7	833.9	845.9	858.1	867.0	876.0	874.8	873.7
42.5°	763.9	756.1	763.9	775.8	787.7	802.8	817.7	825.2	832.8	827.2	821.4
45°	715.9	706.8	715.9	729.8	743.7	760.9	778.1	784.8	791.6	783.5	775.4
47.5°	690.3	681.7	690.3	703.3	716.2	731.4	746.7	751.4	756.1	746.8	737.4
50°	679.7	671.4	679.7	691.6	703.6	715.8	728.0	728.2	728.5	716.5	704.4
52.5°	674.0	666.5	674.0	684.7	695.5	705.4	715.3	712.8	710.2	696.0	681.7
55°	667.5	660.5	667.5	676.8	686.1	694.8	703.6	700.0	696.4	681.3	666.2
57.5°	654.9	647.7	654.9	664.2	673.4	682.2	691.0	687.4	683.8	668.6	653.3
60°	637.3	630.0	637.3	646.9	656.5	665.0	673.6	669.6	665.7	650.5	635.2
62.5°	610.3	601.4	610.3	620.3	630.4	638.1	645.9	642.1	638.3	624.2	610.3
65°	574.0	566.4	574.0	583.7	593.5	601.0	608.3	604.5	600.6	588.3	575.9
67.5°	533.8	527.0	533.8	542.9	552.0	558.8	565.6	561.9	558.1	547.5	536.8
70°	491.5	483.6	491.5	500.1	508.8	514.3	520.0	516.3	512.6	503.1	493.4
72.5°	443.9	436.2	443.9	452.1	460.4	465.0	469.7	465.4	460.9	451.6	442.2
75°	391.2	384.0	391.2	398.2	405.2	407.4	409.7	405.2	400.7	392.1	383.5
77.5°	331.2	325.3	331.2	338.1	345.1	348.4	351.6	347.3	343.1	334.2	325.1
80°	264.3	253.4	264.3	273.8	283.2	284.5	285.9	280.2	274.7	267.8	261.0
82.5°	196.3	189.3	196.3	204.3	212.2	212.9	213.4	203.9	194.3	179.7	165.1
85°	121.2	114.9	121.2	127.4	133.6	134.6	135.6	123.7	111.9	98.2	84.6
87.5°	49.9	46.8	49.9	53.1	56.3	57.6	58.7	54.0	49.2	43.5	37.7
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: P961029

CATALOG NUMBER: NAV-SB1D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1212.9	1220.4	1227.8	1235.3	1243.7	1252.3	1261.7	1271.2	1282.9	1293.3	1304.2
5°	1155.9	1167.9	1181.1	1194.3	1209.2	1224.2	1242.1	1259.9	1280.4	1301.1	1323.1
7.5°	1121.0	1135.7	1152.4	1169.0	1188.7	1208.5	1232.2	1255.9	1282.4	1310.6	1341.2
10°	1116.0	1132.5	1150.5	1168.4	1188.1	1207.8	1232.9	1257.9	1286.3	1321.1	1357.4
12.5°	1148.1	1165.2	1179.2	1193.3	1206.3	1219.4	1239.8	1260.3	1286.8	1323.4	1364.4
15°	1211.7	1226.5	1230.2	1233.8	1232.0	1230.3	1240.0	1249.8	1271.0	1311.6	1359.0
17.5°	1278.8	1290.8	1279.4	1267.9	1246.4	1225.0	1221.4	1217.8	1230.8	1278.6	1335.6
20°	1316.0	1321.5	1297.6	1273.8	1236.4	1199.0	1182.3	1165.5	1169.0	1224.6	1295.2
22.5°	1306.7	1303.3	1272.2	1241.1	1198.4	1155.8	1131.0	1106.3	1099.5	1162.8	1247.8
25°	1255.2	1243.7	1213.2	1182.5	1144.2	1105.9	1077.3	1048.7	1030.4	1095.3	1194.9
27.5°	1178.4	1165.7	1141.1	1116.6	1085.2	1053.6	1026.0	998.5	976.2	1035.2	1146.6
30°	1101.5	1091.1	1070.7	1050.3	1024.2	998.0	976.1	954.2	936.8	986.4	1106.2
32.5°	1033.7	1022.2	1002.7	983.2	962.3	941.4	928.4	915.4	907.7	947.7	1071.3
35°	970.4	956.5	937.2	917.9	902.0	886.0	882.4	878.9	882.1	915.4	1037.1
37.5°	911.1	894.1	874.7	855.5	844.1	832.7	836.6	840.5	852.3	881.4	996.7
40°	854.0	834.5	815.8	797.1	788.9	780.7	789.7	798.6	816.5	843.0	948.6
42.5°	800.3	779.1	761.4	743.7	737.0	730.3	742.1	754.0	776.6	800.9	895.5
45°	753.4	731.4	714.6	697.9	692.2	686.5	698.0	709.6	731.5	756.1	839.2
47.5°	715.8	694.0	677.7	661.2	656.0	650.7	660.3	670.0	688.9	720.7	794.6
50°	685.0	665.5	650.2	634.7	626.3	618.1	626.6	635.2	657.1	698.8	765.0
52.5°	663.6	645.5	631.4	617.2	604.8	592.2	600.6	609.2	639.8	687.9	745.4
55°	650.4	634.5	619.2	603.9	586.3	568.6	582.0	595.3	641.5	686.2	731.2
57.5°	637.7	622.0	604.0	586.1	567.0	548.1	567.5	587.1	643.3	682.8	714.5
60°	619.2	603.2	582.6	562.0	545.4	528.7	554.0	579.3	637.9	663.9	688.9
62.5°	593.3	576.3	552.2	528.2	517.6	507.0	538.5	570.2	624.5	627.7	644.3
65°	559.8	543.5	517.7	491.9	487.9	483.8	517.5	551.1	592.6	592.1	599.9
67.5°	521.4	506.0	482.2	458.4	459.7	460.9	489.0	517.0	540.3	541.3	537.0
70°	480.1	466.8	445.9	425.0	429.5	433.9	453.8	473.8	481.3	481.3	461.0
72.5°	430.1	418.1	401.7	385.2	391.7	398.2	411.8	425.5	425.4	420.6	391.9
75°	372.6	361.7	349.5	337.2	343.5	349.7	360.3	370.7	372.7	350.3	318.2
77.5°	315.7	306.4	296.4	286.5	292.8	299.1	307.5	316.0	316.9	280.2	249.0
80°	253.1	245.3	237.0	228.7	234.0	239.3	246.4	253.5	253.6	209.7	183.3
82.5°	167.9	170.7	171.4	172.0	175.8	179.5	183.0	186.4	184.4	146.9	127.4
85°	92.1	99.8	103.4	107.0	111.1	115.3	119.0	122.7	120.0	92.1	77.9
87.5°	43.6	49.4	49.5	49.7	50.4	51.2	52.8	54.2	50.7	39.2	33.3
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: P961029

CATALOG NUMBER: NAV-SB1D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1315.1	1326.4	1337.7	1349.0	1360.3	1370.8	1381.5
5°	1345.0	1368.5	1391.9	1415.2	1438.6	1462.1	1485.4
7.5°	1371.9	1406.6	1441.4	1477.0	1512.7	1551.3	1590.0
10°	1393.6	1435.8	1478.0	1525.2	1572.4	1621.2	1670.0
12.5°	1405.4	1455.1	1504.9	1558.4	1611.8	1665.4	1719.1
15°	1406.4	1463.8	1521.1	1579.0	1637.0	1693.0	1749.0
17.5°	1392.7	1459.2	1525.7	1589.0	1652.2	1709.0	1765.7
20°	1365.9	1446.6	1527.2	1596.7	1666.2	1725.2	1784.2
22.5°	1333.0	1431.1	1529.2	1607.2	1685.1	1745.4	1805.6
25°	1294.7	1415.8	1537.0	1626.1	1715.1	1774.2	1833.2
27.5°	1258.0	1405.6	1553.2	1655.7	1758.1	1814.4	1870.7
30°	1226.0	1400.9	1575.5	1693.9	1812.4	1866.8	1921.2
32.5°	1194.9	1394.9	1594.7	1734.0	1873.2	1927.0	1980.8
35°	1158.8	1383.7	1608.8	1779.5	1950.2	2001.7	2053.3
37.5°	1112.1	1364.7	1617.2	1830.5	2043.8	2109.6	2175.4
40°	1054.4	1338.4	1622.5	1895.3	2168.0	2263.8	2359.7
42.5°	990.3	1311.3	1632.5	1980.0	2327.6	2465.8	2604.2
45°	922.2	1286.1	1650.0	2091.5	2533.0	2719.5	2906.1
47.5°	868.5	1265.3	1662.1	2210.3	2758.5	3021.1	3283.7
50°	831.0	1242.6	1654.2	2320.5	2986.7	3382.7	3778.6
52.5°	803.0	1204.4	1605.8	2392.1	3178.4	3762.6	4346.7
55°	776.2	1140.8	1505.4	2376.4	3247.2	4099.4	4951.5
57.5°	746.3	1051.3	1356.3	2265.4	3174.4	4338.0	5501.6
60°	713.9	935.1	1156.3	2058.7	2961.1	4397.7	5834.1
62.5°	660.9	796.0	931.0	1779.4	2627.7	4146.5	5665.3
65°	607.8	670.9	733.9	1494.3	2254.9	3791.2	5327.3
67.5°	532.6	550.5	568.5	1215.1	1861.9	3368.3	4874.6
70°	440.7	435.7	430.6	956.7	1483.0	2906.8	4330.6
72.5°	363.1	347.6	332.1	731.4	1130.8	2406.6	3682.4
75°	285.9	271.9	257.9	530.8	803.9	1833.2	2862.4
77.5°	217.6	208.1	198.5	359.8	520.9	1283.1	2045.2
80°	156.7	152.8	148.8	231.8	314.8	826.7	1338.5
82.5°	107.8	107.1	106.4	142.6	178.9	478.5	778.1
85°	63.6	64.0	64.4	76.2	88.1	215.2	342.3
87.5°	27.5	27.9	28.2	31.6	35.0	70.5	106.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)