

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: P965557

Luminaire Tested: **NAV-SB4A-727-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965557
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-SB4A-727-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17030.4 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

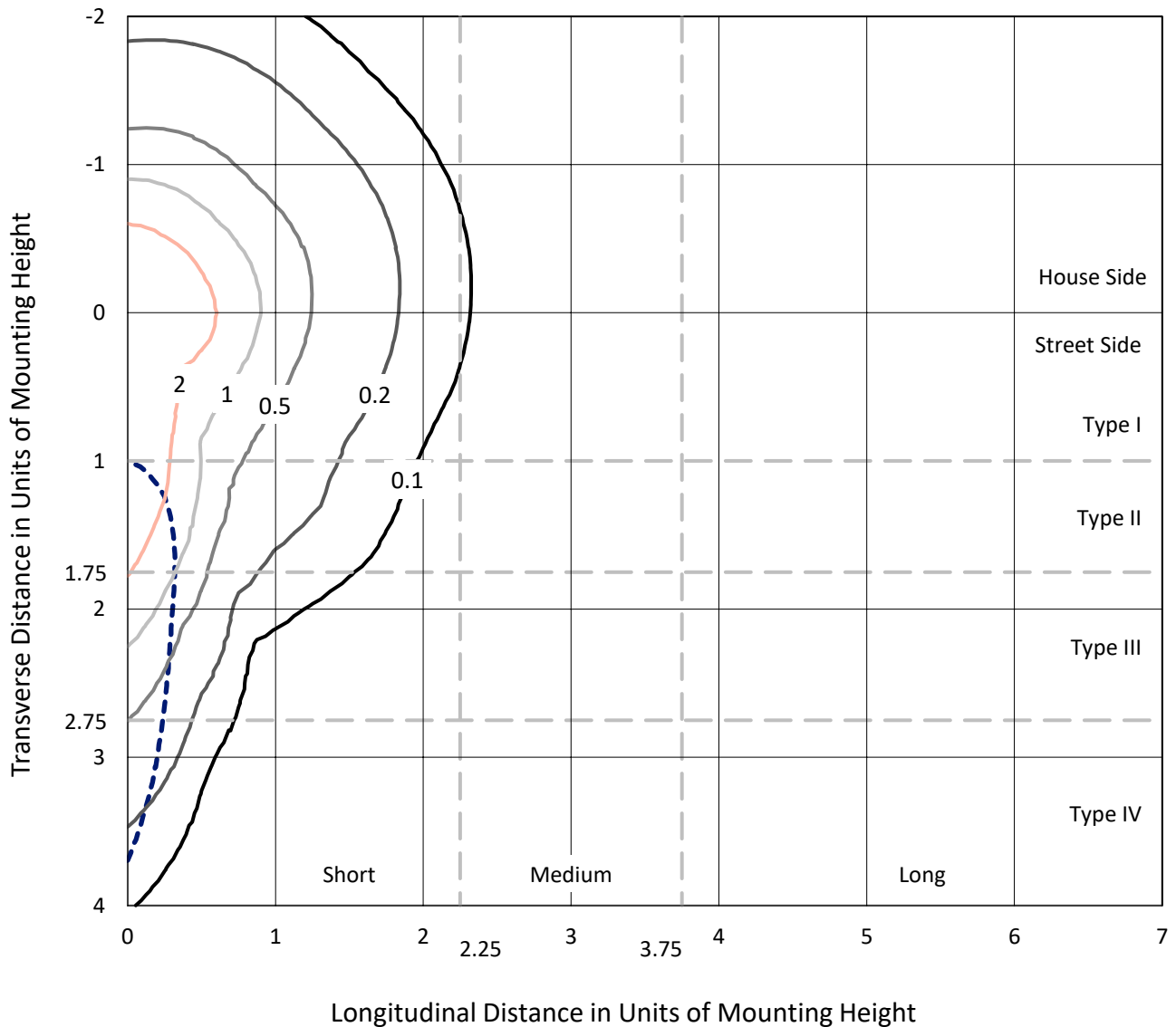
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

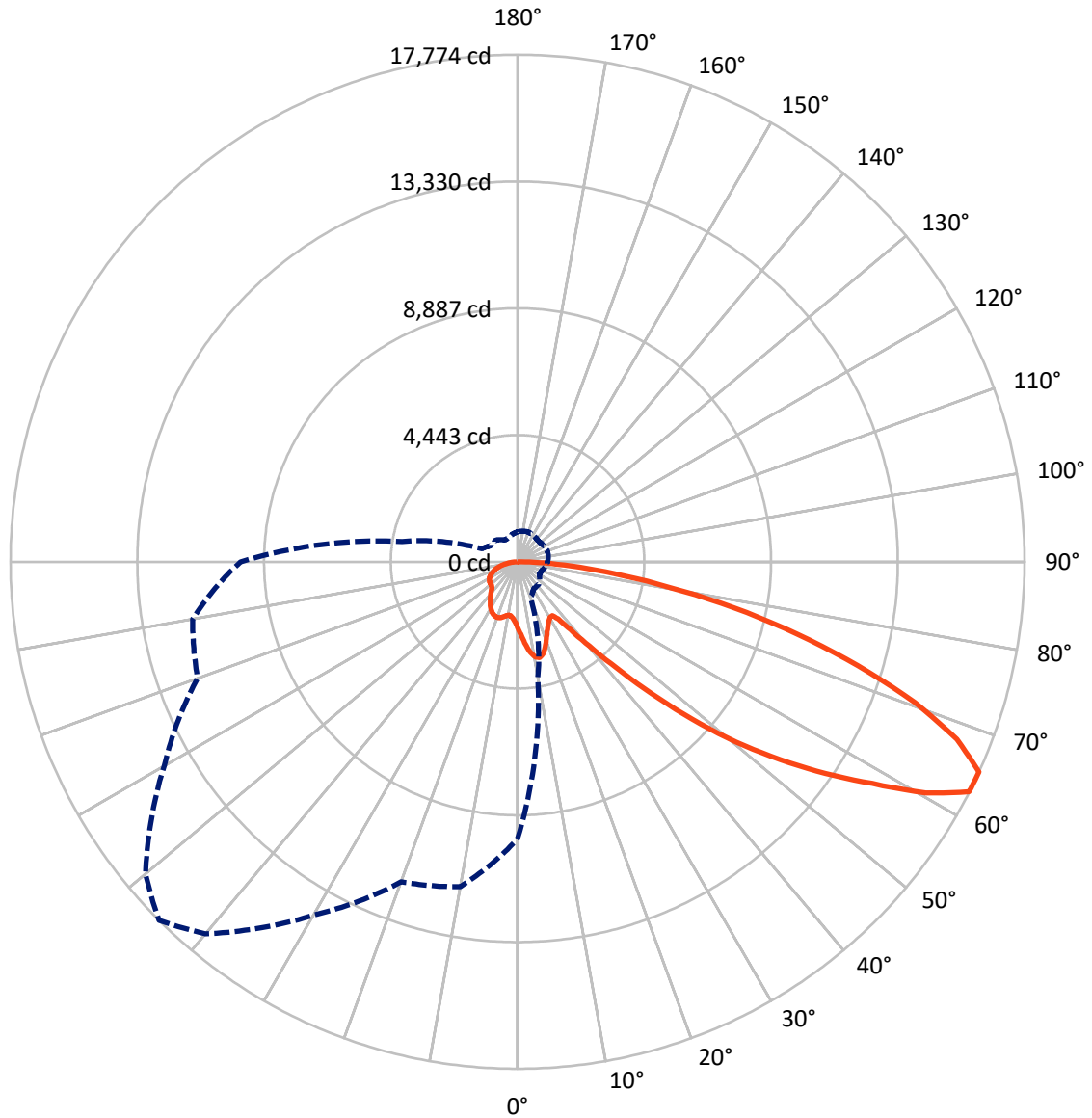
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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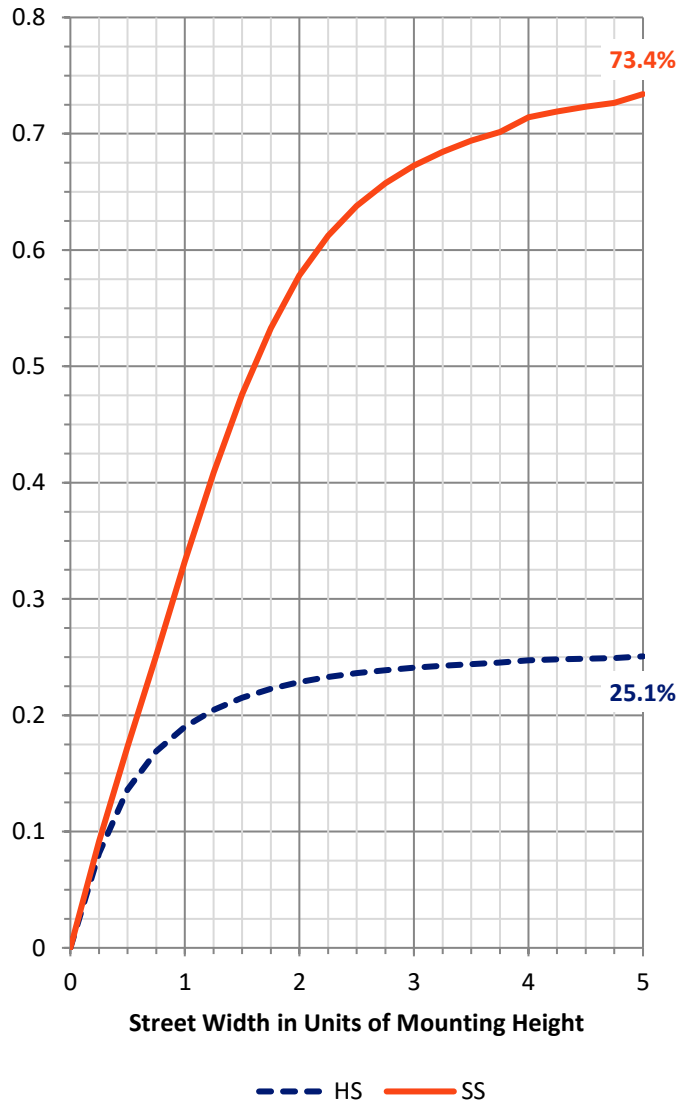
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.3	0.0	4328.3
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	12702.1	0.0	12702.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	17030.4	0.0	17030.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	1.4
10°-20°	729.3	4.3
20°-30°	1126.5	6.6
30°-40°	1427.5	8.4
40°-50°	2153.0	12.6
50°-60°	3478.5	20.4
60°-70°	4336.5	25.5
70°-80°	2843.7	16.7
80°-90°	703.0	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°	17030.4	100.0
0°-180°	17030.4	100.0

Coefficient of Utilization



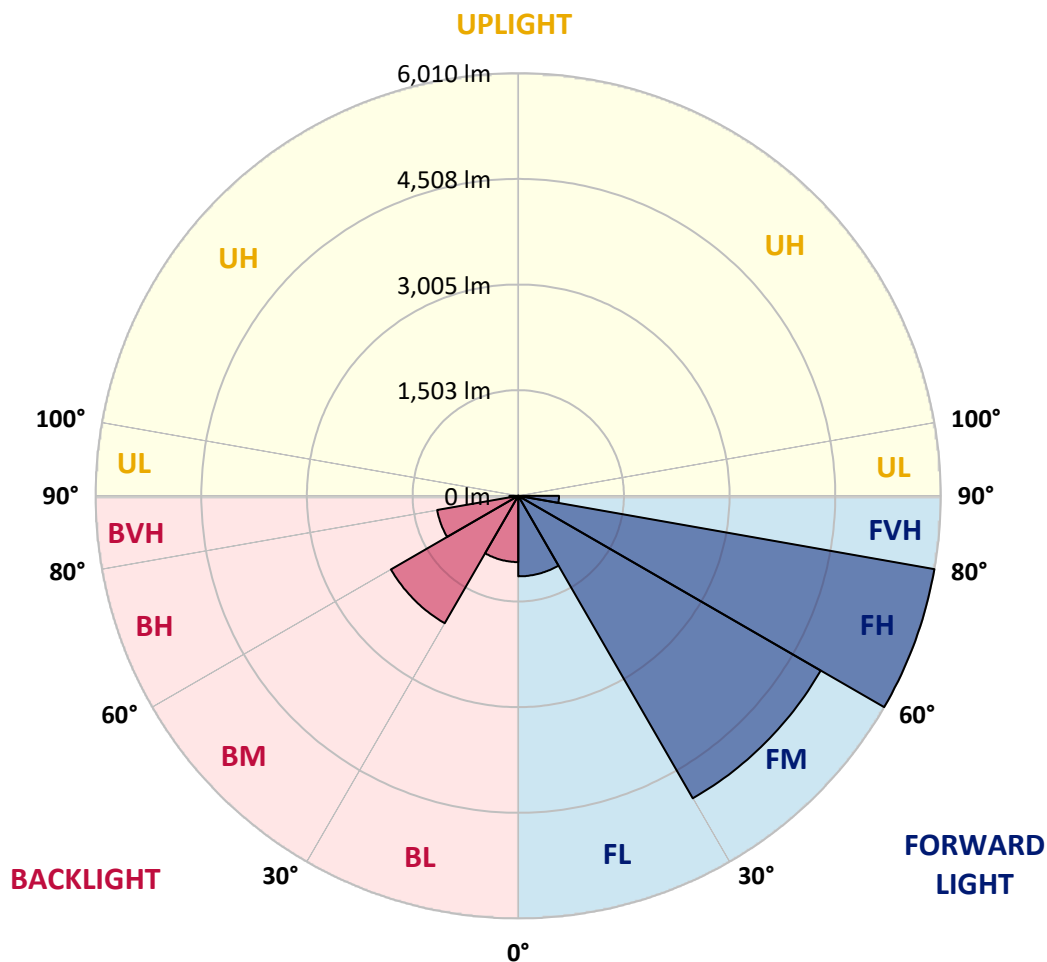
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.5	6.7			
FM (30°-60°)	4967.4	29.2			
FH (60°-80°)	6010.1	35.3			G3/7500
FVH (80°-90°)	579.1	3.4			G4/750
BL (0°-30°)	942.5	5.5	B2/1000		
BM (30°-60°)	2091.7	12.3	B2/2500		
BH (60°-80°)	1170.2	6.9	B3/2500		G3/2500
BVH (80°-90°)	123.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8
2.5°	2518.4	2499.1	2479.8	2459.2	2438.7	2418.1	2397.4	2377.6	2357.8	2338.6	2317.4
5°	2708.0	2665.3	2622.7	2580.0	2537.6	2494.6	2451.9	2411.9	2372.0	2334.2	2296.9
7.5°	2898.5	2828.1	2757.7	2692.7	2627.6	2564.2	2500.9	2445.0	2389.3	2337.8	2289.5
10°	3044.6	2955.5	2866.4	2780.4	2694.5	2617.6	2540.6	2474.7	2408.5	2345.0	2293.1
12.5°	3133.9	3036.2	2938.4	2840.9	2743.5	2652.7	2562.0	2487.3	2412.6	2345.9	2297.6
15°	3188.4	3086.4	2984.4	2878.7	2773.0	2668.5	2563.9	2477.5	2391.0	2317.1	2278.5
17.5°	3218.9	3115.5	3012.1	2896.8	2781.4	2660.1	2538.8	2434.8	2330.8	2243.8	2220.0
20°	3252.6	3145.1	3037.6	2910.8	2784.1	2637.1	2490.1	2361.2	2232.3	2131.1	2124.8
22.5°	3291.7	3181.9	3071.9	2929.9	2787.7	2608.9	2430.1	2274.9	2119.7	2004.4	2016.7
25°	3342.0	3234.4	3126.8	2964.4	2801.9	2581.1	2360.3	2178.4	1996.7	1878.6	1911.8
27.5°	3410.3	3307.7	3205.0	3018.3	2831.6	2562.4	2293.3	2090.3	1887.3	1779.7	1820.2
30°	3502.4	3403.2	3304.1	3088.1	2872.2	2553.7	2235.1	2016.6	1798.2	1707.9	1739.5
32.5°	3611.2	3512.9	3414.8	3161.0	2907.2	2542.9	2178.4	1953.0	1727.6	1654.9	1668.9
35°	3743.2	3649.2	3555.1	3244.0	2932.9	2522.6	2112.5	1890.6	1668.7	1608.1	1602.3
37.5°	3965.6	3845.8	3725.9	3337.1	2948.2	2487.9	2027.4	1817.1	1606.8	1553.7	1532.4
40°	4301.7	4127.1	3952.3	3455.2	2957.8	2439.9	1922.2	1729.4	1536.7	1488.6	1455.8
42.5°	4747.5	4495.3	4243.1	3609.6	2976.1	2390.5	1805.1	1632.6	1460.1	1415.8	1374.4
45°	5297.8	4957.7	4617.6	3812.9	3008.2	2344.6	1681.1	1529.8	1378.5	1333.5	1293.6
47.5°	5986.2	5507.5	5028.8	4029.5	3030.2	2306.7	1583.2	1448.5	1313.7	1255.8	1221.4
50°	6888.4	6166.7	5445.0	4230.4	3015.8	2265.4	1514.9	1394.5	1274.1	1197.9	1157.8
52.5°	7924.1	6859.2	5794.3	4360.9	2927.3	2195.5	1463.9	1358.9	1254.0	1166.4	1110.5
55°	9026.7	7473.2	5919.7	4332.1	2744.4	2079.8	1415.1	1333.1	1251.1	1169.5	1085.4
57.5°	10029.6	7908.3	5786.9	4129.7	2472.6	1916.5	1360.5	1302.6	1244.6	1172.7	1070.3
60°	10635.7	8017.0	5398.3	3753.1	2108.0	1704.7	1301.4	1255.8	1210.3	1162.9	1056.1
62.5°	10327.9	7559.2	4790.4	3243.8	1697.3	1451.1	1204.9	1174.5	1144.4	1138.6	1039.6
65°	9711.9	6911.4	4110.8	2724.2	1337.8	1222.9	1108.0	1093.7	1079.4	1080.1	1004.7
67.5°	8886.5	6140.4	3394.3	2215.3	1036.3	1003.7	971.0	979.0	986.9	984.9	942.5
70°	7894.9	5299.2	2703.5	1744.2	784.9	794.3	803.6	840.6	877.5	877.5	863.6
72.5°	6713.2	4387.3	2061.5	1333.4	605.5	633.7	661.8	714.3	766.7	775.5	775.7
75°	5218.4	3341.9	1465.4	967.8	470.2	495.7	521.2	579.9	638.8	679.4	676.0
77.5°	3728.4	2339.0	949.7	655.8	361.9	379.4	396.8	453.8	510.9	577.8	576.0
80°	2440.2	1507.0	573.8	422.5	271.4	278.6	285.8	334.2	382.3	462.4	462.1
82.5°	1418.5	872.2	326.1	259.8	193.9	195.2	196.6	232.2	267.8	336.1	339.9
85°	624.1	392.4	160.7	138.9	117.3	116.6	115.9	142.0	168.0	218.8	223.8
87.5°	193.2	128.5	63.8	57.6	51.4	50.7	50.1	60.8	71.4	92.6	98.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8
2.5°	2300.1	2283.0	2267.4	2251.9	2238.4	2224.9	2211.1	2197.6	2187.0	2176.5	2168.0
5°	2264.3	2231.7	2204.5	2177.2	2153.1	2129.0	2107.2	2085.3	2068.4	2051.5	2039.7
7.5°	2246.2	2203.0	2167.1	2131.1	2100.8	2070.4	2043.6	2017.0	1996.9	1977.0	1963.0
10°	2247.5	2201.8	2165.8	2130.0	2097.4	2064.6	2034.5	2004.4	1980.5	1956.5	1940.8
12.5°	2260.2	2223.0	2199.1	2175.4	2149.7	2124.2	2092.9	2061.9	2031.3	2000.8	1980.6
15°	2260.6	2242.8	2246.0	2249.3	2242.6	2235.9	2208.9	2181.9	2138.4	2094.9	2064.1
17.5°	2226.6	2233.1	2272.2	2311.5	2332.3	2353.1	2331.3	2309.4	2251.8	2194.2	2149.0
20°	2155.4	2185.9	2254.0	2322.0	2365.6	2409.3	2399.1	2389.0	2323.2	2257.4	2201.8
22.5°	2061.9	2107.1	2184.8	2262.6	2319.3	2376.0	2382.1	2388.1	2325.2	2262.3	2205.2
25°	1963.9	2016.1	2085.9	2155.8	2211.6	2267.4	2288.3	2309.0	2257.5	2205.9	2155.1
27.5°	1870.5	1920.8	1978.2	2035.5	2080.3	2125.0	2148.3	2171.6	2134.8	2098.1	2058.7
30°	1779.5	1819.6	1867.1	1914.8	1951.9	1989.1	2008.0	2026.8	1999.0	1970.9	1942.7
32.5°	1692.6	1716.2	1754.2	1792.3	1827.9	1863.6	1884.5	1905.6	1879.8	1854.0	1831.5
35°	1608.7	1615.3	1644.3	1673.2	1708.5	1743.8	1768.9	1794.2	1775.8	1757.6	1736.7
37.5°	1525.2	1517.9	1538.8	1559.5	1594.7	1630.0	1661.0	1692.1	1683.7	1675.3	1656.1
40°	1439.5	1423.2	1438.3	1453.2	1487.3	1521.2	1557.0	1592.8	1594.9	1596.8	1580.6
42.5°	1352.9	1331.3	1343.6	1355.9	1388.1	1420.2	1458.9	1497.5	1507.9	1518.2	1504.5
45°	1272.5	1251.6	1261.9	1272.2	1302.9	1333.4	1373.5	1413.6	1428.3	1443.2	1430.8
47.5°	1203.8	1186.2	1195.9	1205.5	1235.4	1265.3	1304.8	1344.4	1361.4	1378.5	1369.9
50°	1142.3	1126.7	1141.7	1157.0	1185.2	1213.3	1248.8	1284.1	1306.1	1328.0	1327.5
52.5°	1095.1	1079.7	1102.4	1125.0	1151.0	1176.8	1209.7	1242.8	1268.7	1294.8	1299.4
55°	1060.9	1036.6	1068.9	1101.0	1128.8	1156.7	1185.6	1214.5	1242.0	1269.6	1276.0
57.5°	1034.6	999.1	1033.8	1068.5	1101.2	1133.9	1162.5	1191.2	1218.9	1246.6	1253.2
60°	1009.9	963.8	994.2	1024.6	1062.2	1099.7	1128.7	1157.8	1185.7	1213.6	1220.8
62.5°	981.8	924.2	943.5	962.9	1006.7	1050.5	1081.5	1112.5	1138.1	1163.6	1170.4
65°	943.4	882.0	889.5	896.9	943.7	990.8	1020.4	1050.0	1072.6	1095.0	1102.1
67.5°	891.4	840.4	838.0	835.7	879.0	922.4	950.6	978.6	998.0	1017.4	1024.4
70°	827.3	791.0	782.9	774.8	812.9	851.0	875.2	899.5	917.1	934.6	941.3
72.5°	750.8	725.9	714.0	702.2	732.3	762.2	784.1	806.1	823.3	840.4	848.3
75°	656.8	637.6	626.3	614.8	637.1	659.4	679.3	699.2	714.7	730.4	738.7
77.5°	560.7	545.3	533.8	522.2	540.5	558.5	575.5	592.7	609.1	625.5	633.1
80°	449.3	436.2	426.7	417.0	432.0	447.1	461.5	475.8	488.3	500.7	511.0
82.5°	333.5	327.3	320.4	313.6	312.3	311.1	306.1	301.0	327.6	354.2	371.7
85°	217.0	210.3	202.6	195.0	188.5	181.9	168.0	154.2	179.0	204.0	225.6
87.5°	96.1	93.5	92.0	90.6	90.3	90.0	79.4	68.8	79.1	89.7	98.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8
2.5°	2159.4	2152.7	2146.1	2140.0	2133.7	2126.2	2133.7	2140.0	2146.1	2152.7	2159.4
5°	2028.1	2019.7	2011.4	2004.9	1998.5	1992.3	1998.5	2004.9	2011.4	2019.7	2028.1
7.5°	1948.9	1939.3	1929.8	1924.0	1918.4	1914.1	1918.4	1924.0	1929.8	1939.3	1948.9
10°	1925.1	1915.9	1906.9	1902.0	1897.2	1895.2	1897.2	1902.0	1906.9	1915.9	1925.1
12.5°	1960.3	1950.2	1940.1	1936.0	1931.9	1931.1	1931.9	1936.0	1940.1	1950.2	1960.3
15°	2033.4	2019.4	2005.3	1999.9	1994.5	1994.0	1994.5	1999.9	2005.3	2019.4	2033.4
17.5°	2103.7	2082.8	2061.9	2055.0	2048.2	2047.0	2048.2	2055.0	2061.9	2082.8	2103.7
20°	2146.4	2119.7	2092.9	2084.3	2075.8	2073.2	2075.8	2084.3	2092.9	2119.7	2146.4
22.5°	2147.9	2119.8	2091.5	2082.1	2072.7	2068.7	2072.7	2082.1	2091.5	2119.8	2147.9
25°	2104.4	2079.9	2055.6	2046.7	2037.9	2032.7	2037.9	2046.7	2055.6	2079.9	2104.4
27.5°	2019.2	2002.8	1986.4	1982.4	1978.4	1977.0	1978.4	1982.4	1986.4	2002.8	2019.2
30°	1914.3	1905.9	1897.5	1897.5	1897.5	1898.8	1897.5	1897.5	1897.5	1905.9	1914.3
32.5°	1808.9	1803.5	1798.0	1798.7	1799.5	1800.8	1799.5	1798.7	1798.0	1803.5	1808.9
35°	1716.0	1707.5	1699.3	1697.5	1695.8	1694.8	1695.8	1697.5	1699.3	1707.5	1716.0
37.5°	1636.8	1621.7	1606.6	1598.6	1590.6	1586.1	1590.6	1598.6	1606.6	1621.7	1636.8
40°	1564.4	1542.2	1520.3	1505.4	1490.7	1481.8	1490.7	1505.4	1520.3	1542.2	1564.4
42.5°	1490.9	1463.4	1436.0	1414.4	1392.7	1378.5	1392.7	1414.4	1436.0	1463.4	1490.9
45°	1418.5	1387.1	1355.9	1330.4	1305.0	1288.6	1305.0	1330.4	1355.9	1387.1	1418.5
47.5°	1361.2	1333.4	1305.5	1282.0	1258.5	1242.8	1258.5	1282.0	1305.5	1333.4	1361.2
50°	1327.1	1304.8	1282.5	1260.8	1239.0	1224.0	1239.0	1260.8	1282.5	1304.8	1327.1
52.5°	1304.1	1286.0	1267.8	1248.2	1228.9	1214.9	1228.9	1248.2	1267.8	1286.0	1304.1
55°	1282.5	1266.7	1250.9	1233.8	1216.8	1204.2	1216.8	1233.8	1250.9	1266.7	1282.5
57.5°	1259.7	1243.7	1227.7	1210.8	1193.8	1180.8	1193.8	1210.8	1227.7	1243.7	1259.7
60°	1227.9	1212.4	1196.8	1179.4	1161.9	1148.4	1161.9	1179.4	1196.8	1212.4	1227.9
62.5°	1177.4	1163.3	1149.1	1130.9	1112.5	1096.3	1112.5	1130.9	1149.1	1163.3	1177.4
65°	1109.0	1095.5	1082.0	1064.2	1046.4	1032.5	1046.4	1064.2	1082.0	1095.5	1109.0
67.5°	1031.1	1018.6	1006.2	989.7	973.2	960.6	973.2	989.7	1006.2	1018.6	1031.1
70°	947.9	937.7	927.5	911.7	896.0	881.6	896.0	911.7	927.5	937.7	947.9
72.5°	856.2	847.8	839.3	824.2	809.2	795.3	809.2	824.2	839.3	847.8	856.2
75°	746.9	742.8	738.7	726.0	713.3	700.1	713.3	726.0	738.7	742.8	746.9
77.5°	640.9	635.2	629.2	616.4	603.7	593.1	603.7	616.4	629.2	635.2	640.9
80°	521.2	518.6	516.3	499.1	481.9	461.9	481.9	499.1	516.3	518.6	521.2
82.5°	389.1	388.1	386.8	372.4	357.8	345.1	357.8	372.4	386.8	388.1	389.1
85°	247.1	245.3	243.5	232.2	220.9	209.4	220.9	232.2	243.5	245.3	247.1
87.5°	107.1	105.0	102.6	96.9	90.9	85.4	90.9	96.9	102.6	105.0	107.1
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: P965557
 CATALOG NUMBER: NAV-SB4A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8
2.5°	2168.0	2176.5	2187.0	2197.6	2211.1	2224.9	2238.4	2251.9	2267.4	2283.0	2300.1
5°	2039.7	2051.5	2068.4	2085.3	2107.2	2129.0	2153.1	2177.2	2204.5	2231.7	2264.3
7.5°	1963.0	1977.0	1996.9	2017.0	2043.6	2070.4	2100.8	2131.1	2167.1	2203.0	2246.2
10°	1940.8	1956.5	1980.5	2004.4	2034.5	2064.6	2097.4	2130.0	2165.8	2201.8	2247.5
12.5°	1980.6	2000.8	2031.3	2061.9	2092.9	2124.2	2149.7	2175.4	2199.1	2223.0	2260.2
15°	2064.1	2094.9	2138.4	2181.9	2208.9	2235.9	2242.6	2249.3	2246.0	2242.8	2260.6
17.5°	2149.0	2194.2	2251.8	2309.4	2331.3	2353.1	2332.3	2311.5	2272.2	2233.1	2226.6
20°	2201.8	2257.4	2323.2	2389.0	2399.1	2409.3	2365.6	2322.0	2254.0	2185.9	2155.4
22.5°	2205.2	2262.3	2325.2	2388.1	2382.1	2376.0	2319.3	2262.6	2184.8	2107.1	2061.9
25°	2155.1	2205.9	2257.5	2309.0	2288.3	2267.4	2211.6	2155.8	2085.9	2016.1	1963.9
27.5°	2058.7	2098.1	2134.8	2171.6	2148.3	2125.0	2080.3	2035.5	1978.2	1920.8	1870.5
30°	1942.7	1970.9	1999.0	2026.8	2008.0	1989.1	1951.9	1914.8	1867.1	1819.6	1779.5
32.5°	1831.5	1854.0	1879.8	1905.6	1884.5	1863.6	1827.9	1792.3	1754.2	1716.2	1692.6
35°	1736.7	1757.6	1775.8	1794.2	1768.9	1743.8	1708.5	1673.2	1644.3	1615.3	1608.7
37.5°	1656.1	1675.3	1683.7	1692.1	1661.0	1630.0	1594.7	1559.5	1538.8	1517.9	1525.2
40°	1580.6	1596.8	1594.9	1592.8	1557.0	1521.2	1487.3	1453.2	1438.3	1423.2	1439.5
42.5°	1504.5	1518.2	1507.9	1497.5	1458.9	1420.2	1388.1	1355.9	1343.6	1331.3	1352.9
45°	1430.8	1443.2	1428.3	1413.6	1373.5	1333.4	1302.9	1272.2	1261.9	1251.6	1272.5
47.5°	1369.9	1378.5	1361.4	1344.4	1304.8	1265.3	1235.4	1205.5	1195.9	1186.2	1203.8
50°	1327.5	1328.0	1306.1	1284.1	1248.8	1213.3	1185.2	1157.0	1141.7	1126.7	1142.3
52.5°	1299.4	1294.8	1268.7	1242.8	1209.7	1176.8	1151.0	1125.0	1102.4	1079.7	1095.1
55°	1276.0	1269.6	1242.0	1214.5	1185.6	1156.7	1128.8	1101.0	1068.9	1036.6	1060.9
57.5°	1253.2	1246.6	1218.9	1191.2	1162.5	1133.9	1101.2	1068.5	1033.8	999.1	1034.6
60°	1220.8	1213.6	1185.7	1157.8	1128.7	1099.7	1062.2	1024.6	994.2	963.8	1009.9
62.5°	1170.4	1163.6	1138.1	1112.5	1081.5	1050.5	1006.7	962.9	943.5	924.2	981.8
65°	1102.1	1095.0	1072.6	1050.0	1020.4	990.8	943.7	896.9	889.5	882.0	943.4
67.5°	1024.4	1017.4	998.0	978.6	950.6	922.4	879.0	835.7	838.0	840.4	891.4
70°	941.3	934.6	917.1	899.5	875.2	851.0	812.9	774.8	782.9	791.0	827.3
72.5°	848.3	840.4	823.3	806.1	784.1	762.2	732.3	702.2	714.0	725.9	750.8
75°	738.7	730.4	714.7	699.2	679.3	659.4	637.1	614.8	626.3	637.6	656.8
77.5°	633.1	625.5	609.1	592.7	575.5	558.5	540.5	522.2	533.8	545.3	560.7
80°	511.0	500.7	488.3	475.8	461.5	447.1	432.0	417.0	426.7	436.2	449.3
82.5°	371.7	354.2	327.6	301.0	306.1	311.1	312.3	313.6	320.4	327.3	333.5
85°	225.6	204.0	179.0	154.2	168.0	181.9	188.5	195.0	202.6	210.3	217.0
87.5°	98.4	89.7	79.1	68.8	79.4	90.0	90.3	90.6	92.0	93.5	96.1
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: P965557
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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8
2.5°	2317.4	2338.6	2357.8	2377.6	2397.4	2418.1	2438.7	2459.2	2479.8	2499.1	2518.4
5°	2296.9	2334.2	2372.0	2411.9	2451.9	2494.6	2537.6	2580.0	2622.7	2665.3	2708.0
7.5°	2289.5	2337.8	2389.3	2445.0	2500.9	2564.2	2627.6	2692.7	2757.7	2828.1	2898.5
10°	2293.1	2345.0	2408.5	2474.7	2540.6	2617.6	2694.5	2780.4	2866.4	2955.5	3044.6
12.5°	2297.6	2345.9	2412.6	2487.3	2562.0	2652.7	2743.5	2840.9	2938.4	3036.2	3133.9
15°	2278.5	2317.1	2391.0	2477.5	2563.9	2668.5	2773.0	2878.7	2984.4	3086.4	3188.4
17.5°	2220.0	2243.8	2330.8	2434.8	2538.8	2660.1	2781.4	2896.8	3012.1	3115.5	3218.9
20°	2124.8	2131.1	2232.3	2361.2	2490.1	2637.1	2784.1	2910.8	3037.6	3145.1	3252.6
22.5°	2016.7	2004.4	2119.7	2274.9	2430.1	2608.9	2787.7	2929.9	3071.9	3181.9	3291.7
25°	1911.8	1878.6	1996.7	2178.4	2360.3	2581.1	2801.9	2964.4	3126.8	3234.4	3342.0
27.5°	1820.2	1779.7	1887.3	2090.3	2293.3	2562.4	2831.6	3018.3	3205.0	3307.7	3410.3
30°	1739.5	1707.9	1798.2	2016.6	2235.1	2553.7	2872.2	3088.1	3304.1	3403.2	3502.4
32.5°	1668.9	1654.9	1727.6	1953.0	2178.4	2542.9	2907.2	3161.0	3414.8	3512.9	3611.2
35°	1602.3	1608.1	1668.7	1890.6	2112.5	2522.6	2932.9	3244.0	3555.1	3649.2	3743.2
37.5°	1532.4	1553.7	1606.8	1817.1	2027.4	2487.9	2948.2	3337.1	3725.9	3845.8	3965.6
40°	1455.8	1488.6	1536.7	1729.4	1922.2	2439.9	2957.8	3455.2	3952.3	4127.1	4301.7
42.5°	1374.4	1415.8	1460.1	1632.6	1805.1	2390.5	2976.1	3609.6	4243.1	4495.3	4747.5
45°	1293.6	1333.5	1378.5	1529.8	1681.1	2344.6	3008.2	3812.9	4617.6	4957.7	5297.8
47.5°	1221.4	1255.8	1313.7	1448.5	1583.2	2306.7	3030.2	4029.5	5028.8	5507.5	5986.2
50°	1157.8	1197.9	1274.1	1394.5	1514.9	2265.4	3015.8	4230.4	5445.0	6166.7	6888.4
52.5°	1110.5	1166.4	1254.0	1358.9	1463.9	2195.5	2927.3	4360.9	5794.3	6859.2	7924.1
55°	1085.4	1169.5	1251.1	1333.1	1415.1	2079.8	2744.4	4332.1	5919.7	7473.2	9026.7
57.5°	1070.3	1172.7	1244.6	1302.6	1360.5	1916.5	2472.6	4129.7	5786.9	7908.3	10029.6
60°	1056.1	1162.9	1210.3	1255.8	1301.4	1704.7	2108.0	3753.1	5398.3	8017.0	10635.7
62.5°	1039.6	1138.6	1144.4	1174.5	1204.9	1451.1	1697.3	3243.8	4790.4	7559.2	10327.9
65°	1004.7	1080.1	1079.4	1093.7	1108.0	1222.9	1337.8	2724.2	4110.8	6911.4	9711.9
67.5°	942.5	984.9	986.9	979.0	971.0	1003.7	1036.3	2215.3	3394.3	6140.4	8886.5
70°	863.6	877.5	877.5	840.6	803.6	794.3	784.9	1744.2	2703.5	5299.2	7894.9
72.5°	775.7	775.5	766.7	714.3	661.8	633.7	605.5	1333.4	2061.5	4387.3	6713.2
75°	676.0	679.4	638.8	579.9	521.2	495.7	470.2	967.8	1465.4	3341.9	5218.4
77.5°	576.0	577.8	510.9	453.8	396.8	379.4	361.9	655.8	949.7	2339.0	3728.4
80°	462.1	462.4	382.3	334.2	285.8	278.6	271.4	422.5	573.8	1507.0	2440.2
82.5°	339.9	336.1	267.8	232.2	196.6	195.2	193.9	259.8	326.1	872.2	1418.5
85°	223.8	218.8	168.0	142.0	115.9	116.6	117.3	138.9	160.7	392.4	624.1
87.5°	98.8	92.6	71.4	60.8	50.1	50.7	51.4	57.6	63.8	128.5	193.2
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: P965557
 CATALOG NUMBER: NAV-SB4A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8
2.5°	2528.0	2537.6	2551.1	2564.7	2572.8	2580.8	2584.9	2588.9	2587.1	2588.9	2584.9
5°	2741.4	2774.8	2807.9	2841.0	2859.0	2877.0	2887.8	2898.8	2907.1	2898.8	2887.8
7.5°	2952.8	3006.9	3055.8	3104.6	3133.9	3163.4	3179.2	3195.0	3202.7	3195.0	3179.2
10°	3108.7	3172.9	3230.1	3287.4	3322.0	3356.6	3372.0	3387.4	3393.3	3387.4	3372.0
12.5°	3203.5	3273.0	3324.8	3376.4	3401.5	3426.7	3435.1	3443.6	3444.4	3443.6	3435.1
15°	3248.3	3308.3	3340.8	3373.3	3374.2	3375.0	3366.1	3357.1	3346.5	3357.1	3366.1
17.5°	3259.4	3300.0	3300.6	3301.1	3264.7	3228.3	3195.0	3161.5	3138.0	3161.5	3195.0
20°	3266.7	3280.9	3238.2	3195.5	3115.2	3034.8	2976.4	2917.9	2881.9	2917.9	2976.4
22.5°	3273.1	3254.7	3166.2	3077.8	2959.6	2841.5	2768.3	2695.1	2655.5	2695.1	2768.3
25°	3283.6	3225.2	3090.9	2956.7	2813.1	2669.6	2592.7	2516.0	2478.4	2516.0	2592.7
27.5°	3305.8	3201.4	3023.5	2845.8	2686.7	2527.6	2452.0	2376.5	2340.9	2376.5	2452.0
30°	3346.6	3191.0	2972.1	2753.3	2587.5	2421.8	2351.7	2281.4	2248.3	2281.4	2351.7
32.5°	3397.9	3184.8	2937.0	2689.4	2533.7	2377.9	2322.9	2267.7	2243.8	2267.7	2322.9
35°	3482.2	3221.4	2963.3	2705.3	2597.1	2489.0	2476.2	2463.3	2461.3	2463.3	2476.2
37.5°	3658.6	3351.7	3117.1	2882.6	2875.6	2868.6	2927.4	2986.1	3016.7	2986.1	2927.4
40°	3967.9	3634.0	3459.6	3285.2	3408.3	3531.4	3674.3	3817.2	3888.3	3817.2	3674.3
42.5°	4416.2	4084.9	3984.5	3884.0	4152.6	4421.0	4681.0	4940.8	5093.4	4940.8	4681.0
45°	5000.4	4702.7	4658.4	4614.0	5044.1	5474.4	5901.4	6328.6	6587.9	6328.6	5901.4
47.5°	5696.7	5407.2	5398.3	5389.2	6009.9	6630.2	7255.5	7880.5	8247.6	7880.5	7255.5
50°	6530.9	6173.4	6174.9	6176.4	6976.3	7776.0	8601.2	9426.4	9925.4	9426.4	8601.2
52.5°	7491.1	7058.3	7014.5	6970.6	7926.0	8881.3	9902.3	10923.2	11521.3	10923.2	9902.3
55°	8598.9	8171.2	8000.5	7829.9	8893.2	9956.3	11173.5	12390.7	13102.0	12390.7	11173.5
57.5°	9796.6	9563.7	9221.3	8879.2	9952.8	11026.3	12405.1	13783.6	14665.6	13783.6	12405.1
60°	10997.5	11359.4	10934.3	10509.2	11525.3	12541.3	14017.3	15493.4	16446.6	15493.4	14017.3
62.5°	11316.5	12305.1	12257.2	12209.2	13139.9	14070.7	15475.0	16879.4	17760.5	16879.4	15475.0
65°	10639.7	11567.5	11751.2	11934.7	13117.4	14300.3	15662.1	17023.8	17773.9	17023.8	15662.1
67.5°	9769.0	10651.4	10737.5	10823.5	12055.9	13288.2	14655.8	16023.4	16611.1	16023.4	14655.8
70°	8854.7	9814.6	9853.1	9891.7	10993.7	12095.7	13272.6	14449.5	14776.1	14449.5	13272.6
72.5°	7814.6	8916.2	8943.8	8971.4	9833.6	10695.9	11577.4	12458.8	12491.8	12458.8	11577.4
75°	6358.3	7498.3	7600.7	7703.1	8373.8	9044.7	9665.2	10285.7	10119.4	10285.7	9665.2
77.5°	4792.6	5856.8	6003.3	6149.8	6659.7	7169.7	7609.8	8049.9	7764.2	8049.9	7609.8
80°	3335.6	4230.7	4412.8	4594.9	4980.1	5365.0	5596.1	5827.1	5367.5	5827.1	5596.1
82.5°	2030.5	2642.7	2846.0	3049.5	3314.5	3579.7	3676.1	3772.4	3411.2	3772.4	3676.1
85°	948.9	1273.8	1446.8	1619.8	1837.6	2055.3	2110.1	2164.8	1875.4	2164.8	2110.1
87.5°	302.4	411.5	508.1	604.6	713.5	822.5	827.1	831.7	698.2	831.7	827.1
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: P965557
 CATALOG NUMBER: NAV-SB4A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8	2341.8
2.5°	2580.8	2572.8	2564.7	2551.1	2537.6	2528.0	2518.4
5°	2877.0	2859.0	2841.0	2807.9	2774.8	2741.4	2708.0
7.5°	3163.4	3133.9	3104.6	3055.8	3006.9	2952.8	2898.5
10°	3356.6	3322.0	3287.4	3230.1	3172.9	3108.7	3044.6
12.5°	3426.7	3401.5	3376.4	3324.8	3273.0	3203.5	3133.9
15°	3375.0	3374.2	3373.3	3340.8	3308.3	3248.3	3188.4
17.5°	3228.3	3264.7	3301.1	3300.6	3300.0	3259.4	3218.9
20°	3034.8	3115.2	3195.5	3238.2	3280.9	3266.7	3252.6
22.5°	2841.5	2959.6	3077.8	3166.2	3254.7	3273.1	3291.7
25°	2669.6	2813.1	2956.7	3090.9	3225.2	3283.6	3342.0
27.5°	2527.6	2686.7	2845.8	3023.5	3201.4	3305.8	3410.3
30°	2421.8	2587.5	2753.3	2972.1	3191.0	3346.6	3502.4
32.5°	2377.9	2533.7	2689.4	2937.0	3184.8	3397.9	3611.2
35°	2489.0	2597.1	2705.3	2963.3	3221.4	3482.2	3743.2
37.5°	2868.6	2875.6	2882.6	3117.1	3351.7	3658.6	3965.6
40°	3531.4	3408.3	3285.2	3459.6	3634.0	3967.9	4301.7
42.5°	4421.0	4152.6	3884.0	3984.5	4084.9	4416.2	4747.5
45°	5474.4	5044.1	4614.0	4658.4	4702.7	5000.4	5297.8
47.5°	6630.2	6009.9	5389.2	5398.3	5407.2	5696.7	5986.2
50°	7776.0	6976.3	6176.4	6174.9	6173.4	6530.9	6888.4
52.5°	8881.3	7926.0	6970.6	7014.5	7058.3	7491.1	7924.1
55°	9956.3	8893.2	7829.9	8000.5	8171.2	8598.9	9026.7
57.5°	11026.3	9952.8	8879.2	9221.3	9563.7	9796.6	10029.6
60°	12541.3	11525.3	10509.2	10934.3	11359.4	10997.5	10635.7
62.5°	14070.7	13139.9	12209.2	12257.2	12305.1	11316.5	10327.9
65°	14300.3	13117.4	11934.7	11751.2	11567.5	10639.7	9711.9
67.5°	13288.2	12055.9	10823.5	10737.5	10651.4	9769.0	8886.5
70°	12095.7	10993.7	9891.7	9853.1	9814.6	8854.7	7894.9
72.5°	10695.9	9833.6	8971.4	8943.8	8916.2	7814.6	6713.2
75°	9044.7	8373.8	7703.1	7600.7	7498.3	6358.3	5218.4
77.5°	7169.7	6659.7	6149.8	6003.3	5856.8	4792.6	3728.4
80°	5365.0	4980.1	4594.9	4412.8	4230.7	3335.6	2440.2
82.5°	3579.7	3314.5	3049.5	2846.0	2642.7	2030.5	1418.5
85°	2055.3	1837.6	1619.8	1446.8	1273.8	948.9	624.1
87.5°	822.5	713.5	604.6	508.1	411.5	302.4	193.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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