

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: P965743

Luminaire Tested: **NAV-SB4A-827-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965743
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-827-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

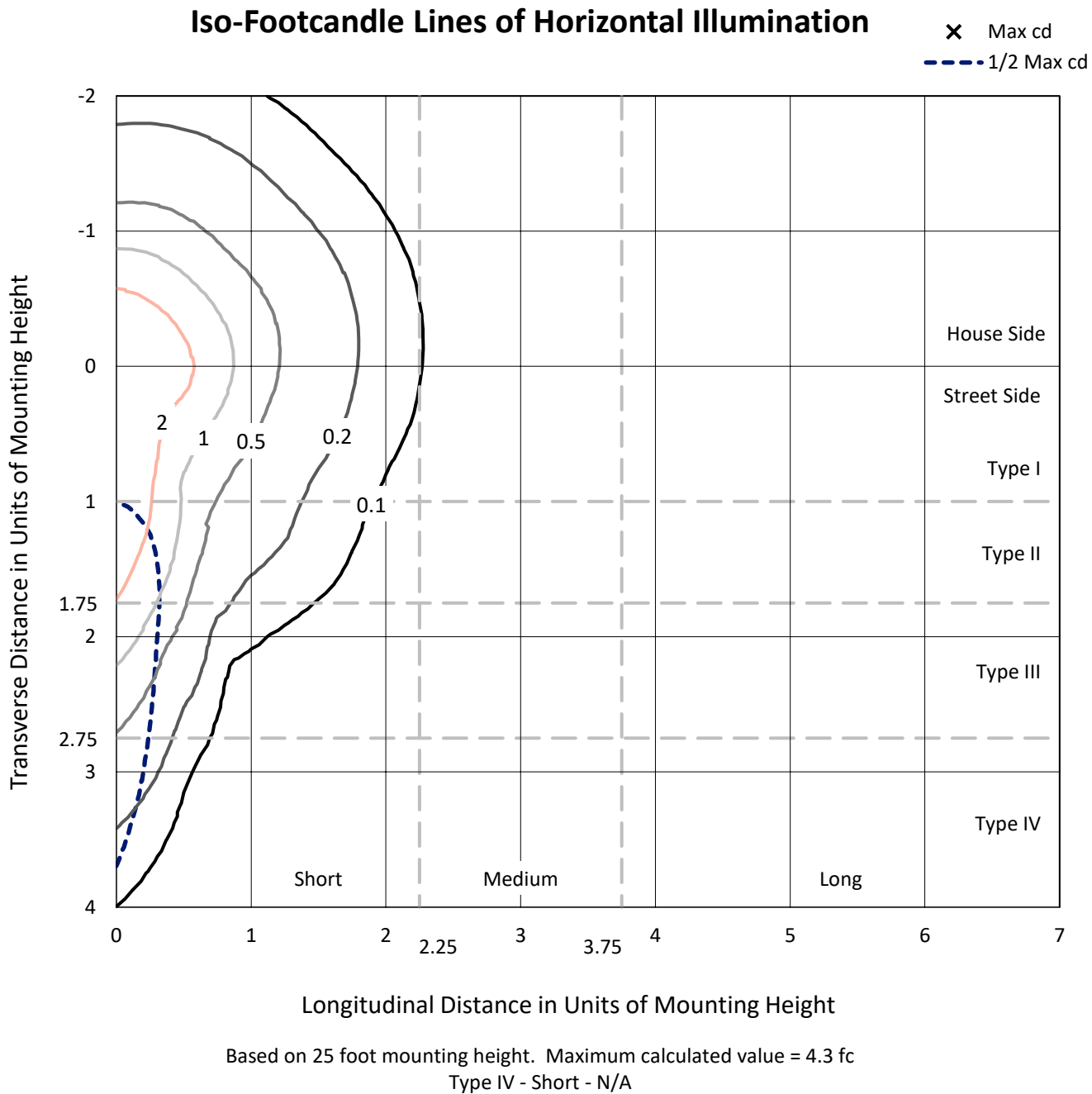
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15966.4 lumens
Efficiency: N/A
Efficacy: 140.1 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

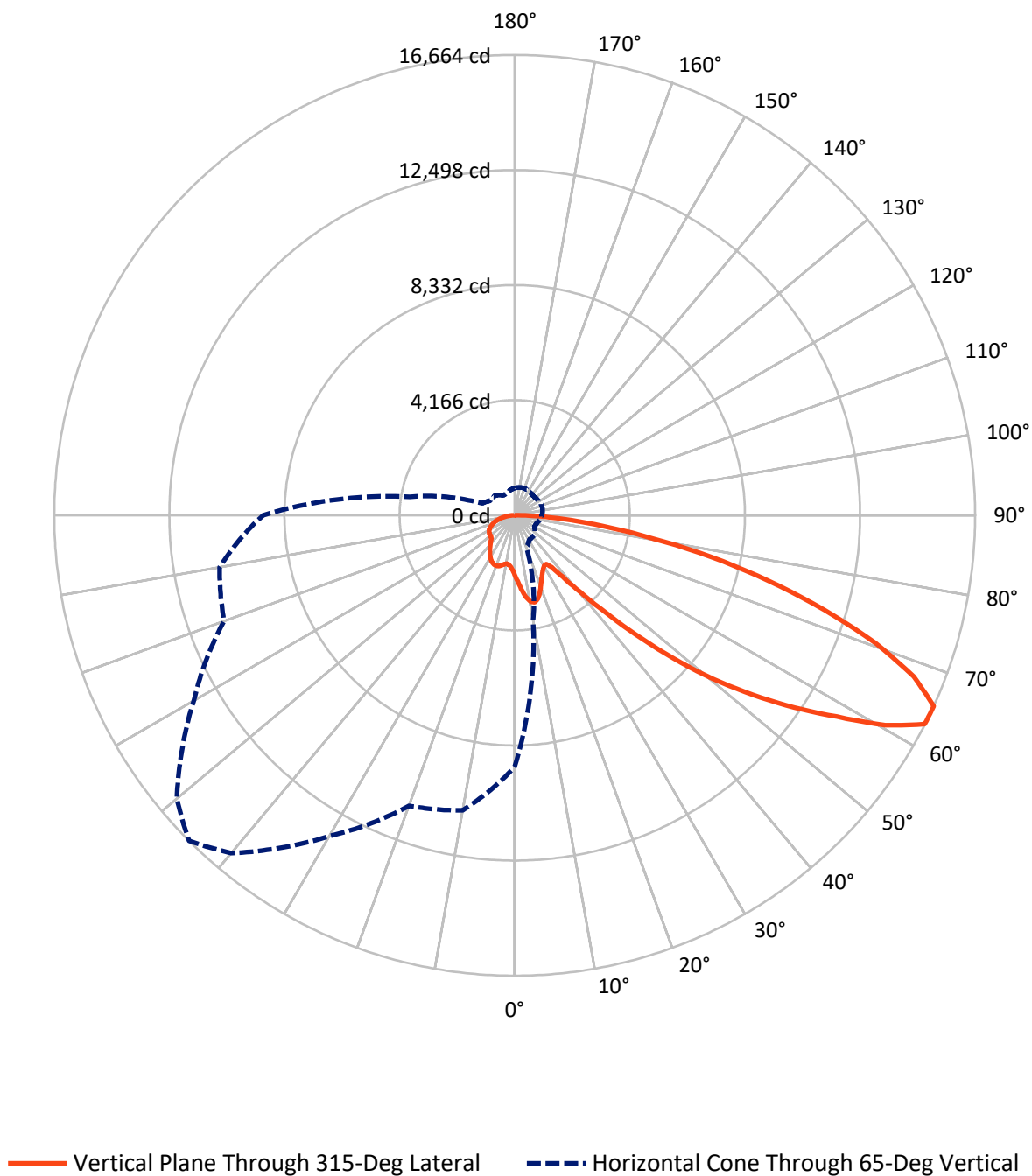


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4057.9	0.0	4057.9
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	11908.6	0.0	11908.6
	% Fixture	74.6	0.0	74.6
Total	Lumens	15966.4	0.0	15966.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.8	1.4
10°-20°	683.7	4.3
20°-30°	1056.1	6.6
30°-40°	1338.3	8.4
40°-50°	2018.5	12.6
50°-60°	3261.2	20.4
60°-70°	4065.6	25.5
70°-80°	2666.0	16.7
80°-90°	659.1	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15966.4	100.0
0°-180°	15966.4	100.0

Coefficient of Utilization



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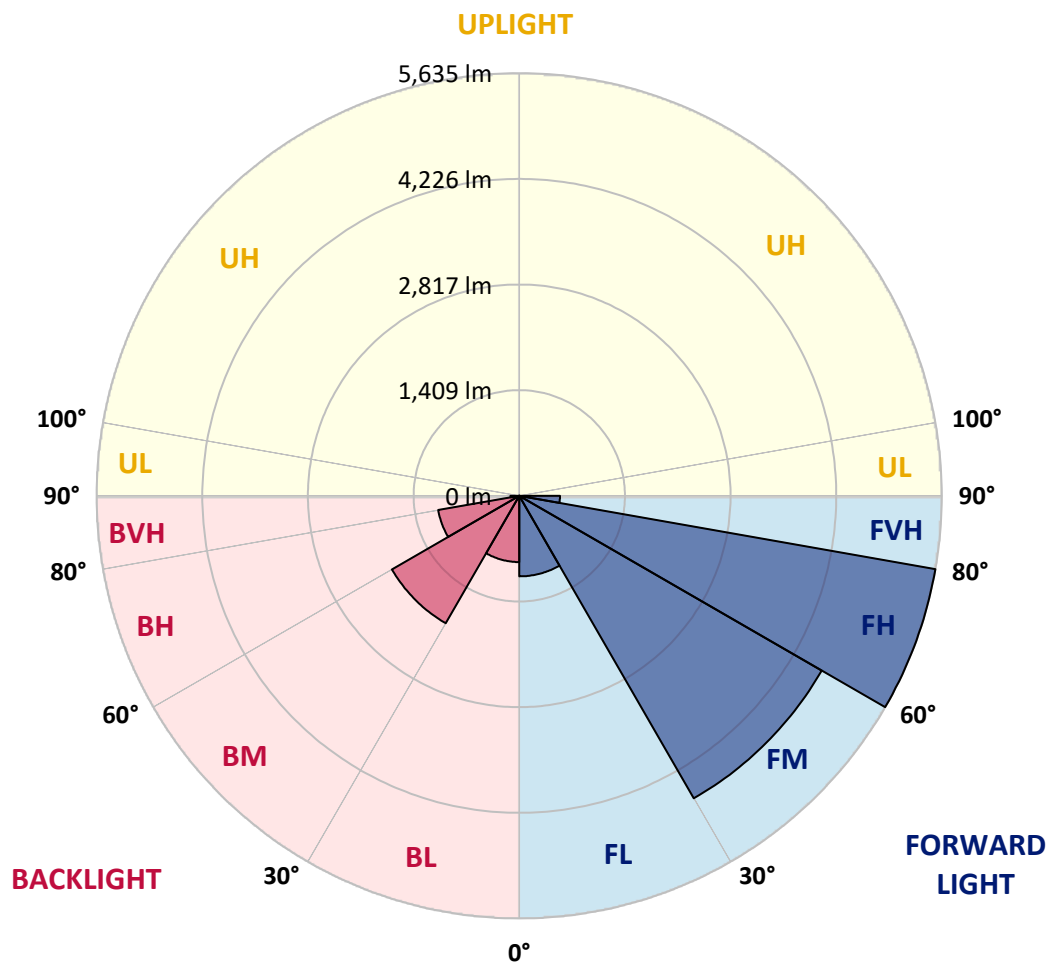
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1073.9	6.7			
FM	(30°-60°)	4657.1	29.2			
FH	(60°-80°)	5634.6	35.3			G3/7500
FVH	(80°-90°)	543.0	3.4			G4/750
BL	(0°-30°)	883.6	5.5	B2/1000		
BM	(30°-60°)	1961.0	12.3	B2/2500		
BH	(60°-80°)	1097.1	6.9	B3/2500		G3/2500
BVH	(80°-90°)	116.1	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°	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5
2.5°	2361.1	2342.9	2324.8	2305.5	2286.4	2267.0	2247.6	2229.1	2210.5	2192.6	2172.6
5°	2538.8	2498.8	2458.8	2418.9	2379.0	2338.8	2298.8	2261.3	2223.7	2188.4	2153.4
7.5°	2717.5	2651.4	2585.5	2524.5	2463.4	2404.0	2344.7	2292.3	2240.0	2191.8	2146.5
10°	2854.3	2770.9	2687.3	2606.8	2526.2	2454.1	2381.9	2320.1	2258.1	2198.4	2149.8
12.5°	2938.2	2846.4	2754.8	2663.5	2572.1	2487.1	2401.9	2331.9	2261.9	2199.3	2154.0
15°	2989.1	2893.5	2797.9	2698.8	2599.7	2501.7	2403.8	2322.8	2241.7	2172.4	2136.1
17.5°	3017.8	2920.8	2823.9	2715.7	2607.7	2493.9	2380.2	2282.7	2185.2	2103.7	2081.4
20°	3049.4	2948.6	2847.8	2729.0	2610.2	2472.4	2334.5	2213.7	2092.9	1997.9	1992.1
22.5°	3086.1	2983.1	2880.0	2746.8	2613.5	2446.0	2278.3	2132.7	1987.3	1879.1	1890.7
25°	3133.2	3032.3	2931.4	2779.2	2626.9	2419.8	2212.8	2042.3	1872.0	1761.3	1792.4
27.5°	3197.3	3101.0	3004.7	2829.7	2654.6	2402.4	2150.0	1959.7	1769.4	1668.5	1706.4
30°	3283.6	3190.6	3097.7	2895.2	2692.8	2394.2	2095.4	1890.6	1685.8	1601.2	1630.9
32.5°	3385.6	3293.4	3201.5	2963.6	2725.6	2384.0	2042.3	1831.1	1619.7	1551.4	1564.7
35°	3509.4	3421.2	3333.1	3041.4	2749.7	2365.0	1980.5	1772.5	1564.5	1507.7	1502.1
37.5°	3717.9	3605.5	3493.1	3128.6	2764.0	2332.4	1900.9	1703.6	1506.3	1456.6	1436.6
40°	4033.0	3869.2	3705.4	3239.3	2773.0	2287.5	1802.1	1621.3	1440.6	1395.5	1364.8
42.5°	4450.9	4214.5	3978.0	3384.1	2790.2	2241.2	1692.4	1530.6	1368.9	1327.4	1288.6
45°	4966.8	4648.0	4329.1	3574.7	2820.2	2198.1	1576.1	1434.3	1292.4	1250.3	1212.8
47.5°	5612.2	5163.4	4714.6	3777.7	2840.9	2162.5	1484.3	1358.0	1231.7	1177.4	1145.1
50°	6458.1	5781.5	5104.8	3966.1	2827.4	2123.8	1420.2	1307.4	1194.4	1123.0	1085.6
52.5°	7429.1	6430.7	5432.4	4088.4	2744.4	2058.4	1372.4	1274.0	1175.7	1093.6	1041.2
55°	8462.8	7006.3	5549.9	4061.5	2573.0	1949.9	1326.8	1249.8	1172.9	1096.5	1017.5
57.5°	9403.0	7414.2	5425.4	3871.7	2318.1	1796.8	1275.5	1221.2	1166.9	1099.4	1003.4
60°	9971.3	7516.1	5060.9	3518.6	1976.3	1598.2	1220.1	1177.4	1134.7	1090.2	990.0
62.5°	9682.7	7087.0	4491.1	3041.2	1591.3	1360.5	1129.7	1101.3	1072.9	1067.4	974.6
65°	9105.2	6479.5	3854.0	2554.1	1254.3	1146.6	1038.8	1025.4	1012.0	1012.7	941.9
67.5°	8331.3	5756.8	3182.2	2076.9	971.6	941.0	910.3	917.8	925.3	923.3	883.6
70°	7401.6	4968.2	2534.6	1635.3	735.9	744.7	753.4	788.0	822.7	822.7	809.6
72.5°	6293.8	4113.2	1932.6	1250.2	567.6	594.0	620.5	669.7	718.8	727.0	727.2
75°	4892.3	3133.1	1373.9	907.3	440.7	464.7	488.6	543.8	598.8	636.9	633.8
77.5°	3495.5	2192.9	890.3	614.9	339.4	355.6	372.0	425.5	479.0	541.7	540.1
80°	2287.8	1412.9	537.9	396.2	254.4	261.2	267.9	313.2	358.4	433.5	433.2
82.5°	1329.8	817.7	305.7	243.6	181.8	183.0	184.3	217.7	251.0	315.1	318.7
85°	585.1	367.9	150.7	130.3	110.0	109.4	108.6	133.1	157.5	205.1	209.8
87.5°	181.1	120.4	59.9	54.0	48.2	47.6	47.0	57.0	66.9	86.8	92.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5
2.5°	2156.4	2140.3	2125.7	2111.3	2098.6	2085.9	2073.1	2060.4	2050.4	2040.5	2032.5
5°	2122.9	2092.3	2066.7	2041.2	2018.6	1996.0	1975.6	1955.0	1939.2	1923.4	1912.3
7.5°	2105.9	2065.4	2031.7	1997.9	1969.5	1941.0	1916.0	1890.9	1872.2	1853.5	1840.3
10°	2107.1	2064.2	2030.5	1996.9	1966.3	1935.6	1907.4	1879.1	1856.8	1834.2	1819.6
12.5°	2119.0	2084.1	2061.7	2039.4	2015.4	1991.5	1962.3	1933.0	1904.4	1875.7	1856.9
15°	2119.4	2102.7	2105.8	2108.7	2102.5	2096.2	2070.9	2045.6	2004.8	1964.0	1935.2
17.5°	2087.5	2093.6	2130.4	2167.1	2186.6	2206.0	2185.6	2165.2	2111.2	2057.2	2014.7
20°	2020.7	2049.4	2113.1	2177.0	2217.9	2258.7	2249.3	2239.7	2178.0	2116.3	2064.2
22.5°	1933.0	1975.5	2048.3	2121.2	2174.3	2227.5	2233.3	2238.9	2180.0	2120.9	2067.4
25°	1841.2	1890.1	1955.6	2021.1	2073.5	2125.7	2145.3	2164.8	2116.4	2068.1	2020.5
27.5°	1753.7	1800.8	1854.6	1908.4	1950.4	1992.3	2014.0	2035.9	2001.4	1967.1	1930.1
30°	1668.3	1705.9	1750.5	1795.2	1829.9	1864.9	1882.5	1900.2	1874.0	1847.8	1821.3
32.5°	1586.8	1608.9	1644.6	1680.4	1713.7	1747.1	1766.8	1786.5	1762.4	1738.2	1717.1
35°	1508.2	1514.3	1541.6	1568.7	1601.8	1634.9	1658.4	1682.0	1664.8	1647.7	1628.2
37.5°	1429.9	1423.1	1442.7	1462.2	1495.1	1528.1	1557.3	1586.4	1578.5	1570.6	1552.7
40°	1349.6	1334.3	1348.4	1362.4	1394.3	1426.2	1459.7	1493.3	1495.3	1497.1	1481.8
42.5°	1268.3	1248.1	1259.6	1271.1	1301.3	1331.6	1367.8	1404.0	1413.7	1423.4	1410.5
45°	1193.0	1173.4	1183.1	1192.8	1221.4	1250.1	1287.7	1325.2	1339.2	1353.0	1341.4
47.5°	1128.6	1112.1	1121.1	1130.2	1158.2	1186.2	1223.3	1260.3	1276.3	1292.4	1284.3
50°	1070.9	1056.3	1070.5	1084.7	1111.2	1137.5	1170.8	1204.0	1224.5	1245.1	1244.6
52.5°	1026.6	1012.3	1033.6	1054.8	1079.0	1103.2	1134.2	1165.1	1189.5	1213.8	1218.2
55°	994.7	971.8	1002.0	1032.2	1058.3	1084.4	1111.6	1138.6	1164.4	1190.2	1196.4
57.5°	970.1	936.6	969.2	1001.7	1032.4	1063.0	1089.9	1116.7	1142.8	1168.7	1174.9
60°	946.9	903.5	932.1	960.6	995.8	1031.0	1058.2	1085.6	1111.6	1137.8	1144.5
62.5°	920.4	866.5	884.6	902.7	943.7	984.8	1013.9	1043.0	1066.9	1090.8	1097.4
65°	884.5	826.9	833.9	840.8	884.8	928.9	956.6	984.4	1005.5	1026.5	1033.2
67.5°	835.8	787.9	785.7	783.5	824.1	864.8	891.1	917.5	935.6	953.9	960.3
70°	775.6	741.6	734.0	726.4	762.1	797.9	820.6	843.4	859.8	876.2	882.4
72.5°	703.9	680.6	669.4	658.4	686.5	714.6	735.1	755.7	771.8	787.9	795.3
75°	615.8	597.8	587.1	576.5	597.4	618.2	636.8	655.5	670.1	684.8	692.5
77.5°	525.6	511.3	500.4	489.6	506.7	523.6	539.7	555.7	571.0	586.4	593.6
80°	421.2	409.1	400.1	390.9	405.1	419.1	432.7	446.1	457.8	469.4	479.1
82.5°	312.7	306.8	300.4	294.1	292.8	291.7	287.0	282.2	307.2	332.1	348.5
85°	203.5	197.1	189.9	182.9	176.7	170.6	157.5	144.5	167.8	191.3	211.5
87.5°	90.1	87.6	86.3	85.0	84.7	84.5	74.5	64.5	74.2	84.0	92.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5
2.5°	2024.5	2018.2	2012.1	2006.3	2000.5	1993.3	2000.5	2006.3	2012.1	2018.2	2024.5
5°	1901.4	1893.5	1885.7	1879.6	1873.7	1867.8	1873.7	1879.6	1885.7	1893.5	1901.4
7.5°	1827.2	1818.1	1809.2	1803.9	1798.6	1794.5	1798.6	1803.9	1809.2	1818.1	1827.2
10°	1804.8	1796.3	1787.8	1783.2	1778.7	1776.8	1778.7	1783.2	1787.8	1796.3	1804.8
12.5°	1837.9	1828.4	1819.0	1815.1	1811.2	1810.5	1811.2	1815.1	1819.0	1828.4	1837.9
15°	1906.4	1893.2	1880.1	1874.9	1869.9	1869.5	1869.9	1874.9	1880.1	1893.2	1906.4
17.5°	1972.3	1952.7	1933.0	1926.7	1920.2	1919.2	1920.2	1926.7	1933.0	1952.7	1972.3
20°	2012.3	1987.3	1962.2	1954.2	1946.2	1943.6	1946.2	1954.2	1962.2	1987.3	2012.3
22.5°	2013.7	1987.4	1960.9	1952.0	1943.2	1939.4	1943.2	1952.0	1960.9	1987.4	2013.7
25°	1972.9	1950.1	1927.2	1918.8	1910.6	1905.7	1910.6	1918.8	1927.2	1950.1	1972.9
27.5°	1893.1	1877.7	1862.3	1858.5	1854.7	1853.5	1854.7	1858.5	1862.3	1877.7	1893.1
30°	1794.7	1786.8	1778.9	1778.9	1778.9	1780.2	1778.9	1778.9	1778.9	1786.8	1794.7
32.5°	1696.0	1690.7	1685.6	1686.3	1687.0	1688.4	1687.0	1686.3	1685.6	1690.7	1696.0
35°	1608.7	1600.8	1593.2	1591.4	1589.8	1589.0	1589.8	1591.4	1593.2	1600.8	1608.7
37.5°	1534.6	1520.4	1506.2	1498.7	1491.2	1487.0	1491.2	1498.7	1506.2	1520.4	1534.6
40°	1466.6	1445.9	1425.4	1411.3	1397.5	1389.3	1397.5	1411.3	1425.4	1445.9	1466.6
42.5°	1397.7	1372.0	1346.3	1325.9	1305.6	1292.4	1305.6	1325.9	1346.3	1372.0	1397.7
45°	1329.8	1300.4	1271.1	1247.3	1223.4	1208.2	1223.4	1247.3	1271.1	1300.4	1329.8
47.5°	1276.2	1250.1	1224.0	1201.9	1179.9	1165.1	1179.9	1201.9	1224.0	1250.1	1276.2
50°	1244.1	1223.3	1202.4	1182.0	1161.6	1147.5	1161.6	1182.0	1202.4	1223.3	1244.1
52.5°	1222.6	1205.6	1188.6	1170.3	1152.1	1139.1	1152.1	1170.3	1188.6	1205.6	1222.6
55°	1202.4	1187.6	1172.7	1156.7	1140.7	1128.9	1140.7	1156.7	1172.7	1187.6	1202.4
57.5°	1181.0	1166.0	1151.0	1135.2	1119.2	1107.0	1119.2	1135.2	1151.0	1166.0	1181.0
60°	1151.3	1136.6	1122.1	1105.7	1089.4	1076.7	1089.4	1105.7	1122.1	1136.6	1151.3
62.5°	1103.8	1090.6	1077.4	1060.2	1043.0	1027.9	1043.0	1060.2	1077.4	1090.6	1103.8
65°	1039.8	1027.0	1014.3	997.6	981.0	968.0	981.0	997.6	1014.3	1027.0	1039.8
67.5°	966.8	955.0	943.4	927.9	912.5	900.7	912.5	927.9	943.4	955.0	966.8
70°	888.7	879.1	869.6	854.7	840.0	826.5	840.0	854.7	869.6	879.1	888.7
72.5°	802.7	794.8	786.9	772.7	758.7	745.6	758.7	772.7	786.9	794.8	802.7
75°	700.3	696.4	692.5	680.6	668.8	656.3	668.8	680.6	692.5	696.4	700.3
77.5°	600.9	595.4	589.9	577.9	566.0	556.1	566.0	577.9	589.9	595.4	600.9
80°	488.6	486.3	484.0	467.9	451.7	433.1	451.7	467.9	484.0	486.3	488.6
82.5°	364.8	363.8	362.6	349.1	335.5	323.5	335.5	349.1	362.6	363.8	364.8
85°	231.6	230.0	228.3	217.7	207.0	196.3	207.0	217.7	228.3	230.0	231.6
87.5°	100.4	98.4	96.2	90.8	85.3	80.1	85.3	90.8	96.2	98.4	100.4
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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CATALOG NUMBER: NAV-SB4A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5
2.5°	2032.5	2040.5	2050.4	2060.4	2073.1	2085.9	2098.6	2111.3	2125.7	2140.3	2156.4
5°	1912.3	1923.4	1939.2	1955.0	1975.6	1996.0	2018.6	2041.2	2066.7	2092.3	2122.9
7.5°	1840.3	1853.5	1872.2	1890.9	1916.0	1941.0	1969.5	1997.9	2031.7	2065.4	2105.9
10°	1819.6	1834.2	1856.8	1879.1	1907.4	1935.6	1966.3	1996.9	2030.5	2064.2	2107.1
12.5°	1856.9	1875.7	1904.4	1933.0	1962.3	1991.5	2015.4	2039.4	2061.7	2084.1	2119.0
15°	1935.2	1964.0	2004.8	2045.6	2070.9	2096.2	2102.5	2108.7	2105.8	2102.7	2119.4
17.5°	2014.7	2057.2	2111.2	2165.2	2185.6	2206.0	2186.6	2167.1	2130.4	2093.6	2087.5
20°	2064.2	2116.3	2178.0	2239.7	2249.3	2258.7	2217.9	2177.0	2113.1	2049.4	2020.7
22.5°	2067.4	2120.9	2180.0	2238.9	2233.3	2227.5	2174.3	2121.2	2048.3	1975.5	1933.0
25°	2020.5	2068.1	2116.4	2164.8	2145.3	2125.7	2073.5	2021.1	1955.6	1890.1	1841.2
27.5°	1930.1	1967.1	2001.4	2035.9	2014.0	1992.3	1950.4	1908.4	1854.6	1800.8	1753.7
30°	1821.3	1847.8	1874.0	1900.2	1882.5	1864.9	1829.9	1795.2	1750.5	1705.9	1668.3
32.5°	1717.1	1738.2	1762.4	1786.5	1766.8	1747.1	1713.7	1680.4	1644.6	1608.9	1586.8
35°	1628.2	1647.7	1664.8	1682.0	1658.4	1634.9	1601.8	1568.7	1541.6	1514.3	1508.2
37.5°	1552.7	1570.6	1578.5	1586.4	1557.3	1528.1	1495.1	1462.2	1442.7	1423.1	1429.9
40°	1481.8	1497.1	1495.3	1493.3	1459.7	1426.2	1394.3	1362.4	1348.4	1334.3	1349.6
42.5°	1410.5	1423.4	1413.7	1404.0	1367.8	1331.6	1301.3	1271.1	1259.6	1248.1	1268.3
45°	1341.4	1353.0	1339.2	1325.2	1287.7	1250.1	1221.4	1192.8	1183.1	1173.4	1193.0
47.5°	1284.3	1292.4	1276.3	1260.3	1223.3	1186.2	1158.2	1130.2	1121.1	1112.1	1128.6
50°	1244.6	1245.1	1224.5	1204.0	1170.8	1137.5	1111.2	1084.7	1070.5	1056.3	1070.9
52.5°	1218.2	1213.8	1189.5	1165.1	1134.2	1103.2	1079.0	1054.8	1033.6	1012.3	1026.6
55°	1196.4	1190.2	1164.4	1138.6	1111.6	1084.4	1058.3	1032.2	1002.0	971.8	994.7
57.5°	1174.9	1168.7	1142.8	1116.7	1089.9	1063.0	1032.4	1001.7	969.2	936.6	970.1
60°	1144.5	1137.8	1111.6	1085.6	1058.2	1031.0	995.8	960.6	932.1	903.5	946.9
62.5°	1097.4	1090.8	1066.9	1043.0	1013.9	984.8	943.7	902.7	884.6	866.5	920.4
65°	1033.2	1026.5	1005.5	984.4	956.6	928.9	884.8	840.8	833.9	826.9	884.5
67.5°	960.3	953.9	935.6	917.5	891.1	864.8	824.1	783.5	785.7	787.9	835.8
70°	882.4	876.2	859.8	843.4	820.6	797.9	762.1	726.4	734.0	741.6	775.6
72.5°	795.3	787.9	771.8	755.7	735.1	714.6	686.5	658.4	669.4	680.6	703.9
75°	692.5	684.8	670.1	655.5	636.8	618.2	597.4	576.5	587.1	597.8	615.8
77.5°	593.6	586.4	571.0	555.7	539.7	523.6	506.7	489.6	500.4	511.3	525.6
80°	479.1	469.4	457.8	446.1	432.7	419.1	405.1	390.9	400.1	409.1	421.2
82.5°	348.5	332.1	307.2	282.2	287.0	291.7	292.8	294.1	300.4	306.8	312.7
85°	211.5	191.3	167.8	144.5	157.5	170.6	176.7	182.9	189.9	197.1	203.5
87.5°	92.2	84.0	74.2	64.5	74.5	84.5	84.7	85.0	86.3	87.6	90.1
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: P965743

CATALOG NUMBER: NAV-SB4A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5
2.5°	2172.6	2192.6	2210.5	2229.1	2247.6	2267.0	2286.4	2305.5	2324.8	2342.9	2361.1
5°	2153.4	2188.4	2223.7	2261.3	2298.8	2338.8	2379.0	2418.9	2458.8	2498.8	2538.8
7.5°	2146.5	2191.8	2240.0	2292.3	2344.7	2404.0	2463.4	2524.5	2585.5	2651.4	2717.5
10°	2149.8	2198.4	2258.1	2320.1	2381.9	2454.1	2526.2	2606.8	2687.3	2770.9	2854.3
12.5°	2154.0	2199.3	2261.9	2331.9	2401.9	2487.1	2572.1	2663.5	2754.8	2846.4	2938.2
15°	2136.1	2172.4	2241.7	2322.8	2403.8	2501.7	2599.7	2698.8	2797.9	2893.5	2989.1
17.5°	2081.4	2103.7	2185.2	2282.7	2380.2	2493.9	2607.7	2715.7	2823.9	2920.8	3017.8
20°	1992.1	1997.9	2092.9	2213.7	2334.5	2472.4	2610.2	2729.0	2847.8	2948.6	3049.4
22.5°	1890.7	1879.1	1987.3	2132.7	2278.3	2446.0	2613.5	2746.8	2880.0	2983.1	3086.1
25°	1792.4	1761.3	1872.0	2042.3	2212.8	2419.8	2626.9	2779.2	2931.4	3032.3	3133.2
27.5°	1706.4	1668.5	1769.4	1959.7	2150.0	2402.4	2654.6	2829.7	3004.7	3101.0	3197.3
30°	1630.9	1601.2	1685.8	1890.6	2095.4	2394.2	2692.8	2895.2	3097.7	3190.6	3283.6
32.5°	1564.7	1551.4	1619.7	1831.1	2042.3	2384.0	2725.6	2963.6	3201.5	3293.4	3385.6
35°	1502.1	1507.7	1564.5	1772.5	1980.5	2365.0	2749.7	3041.4	3333.1	3421.2	3509.4
37.5°	1436.6	1456.6	1506.3	1703.6	1900.9	2332.4	2764.0	3128.6	3493.1	3605.5	3717.9
40°	1364.8	1395.5	1440.6	1621.3	1802.1	2287.5	2773.0	3239.3	3705.4	3869.2	4033.0
42.5°	1288.6	1327.4	1368.9	1530.6	1692.4	2241.2	2790.2	3384.1	3978.0	4214.5	4450.9
45°	1212.8	1250.3	1292.4	1434.3	1576.1	2198.1	2820.2	3574.7	4329.1	4648.0	4966.8
47.5°	1145.1	1177.4	1231.7	1358.0	1484.3	2162.5	2840.9	3777.7	4714.6	5163.4	5612.2
50°	1085.6	1123.0	1194.4	1307.4	1420.2	2123.8	2827.4	3966.1	5104.8	5781.5	6458.1
52.5°	1041.2	1093.6	1175.7	1274.0	1372.4	2058.4	2744.4	4088.4	5432.4	6430.7	7429.1
55°	1017.5	1096.5	1172.9	1249.8	1326.8	1949.9	2573.0	4061.5	5549.9	7006.3	8462.8
57.5°	1003.4	1099.4	1166.9	1221.2	1275.5	1796.8	2318.1	3871.7	5425.4	7414.2	9403.0
60°	990.0	1090.2	1134.7	1177.4	1220.1	1598.2	1976.3	3518.6	5060.9	7516.1	9971.3
62.5°	974.6	1067.4	1072.9	1101.3	1129.7	1360.5	1591.3	3041.2	4491.1	7087.0	9682.7
65°	941.9	1012.7	1012.0	1025.4	1038.8	1146.6	1254.3	2554.1	3854.0	6479.5	9105.2
67.5°	883.6	923.3	925.3	917.8	910.3	941.0	971.6	2076.9	3182.2	5756.8	8331.3
70°	809.6	822.7	822.7	788.0	753.4	744.7	735.9	1635.3	2534.6	4968.2	7401.6
72.5°	727.2	727.0	718.8	669.7	620.5	594.0	567.6	1250.2	1932.6	4113.2	6293.8
75°	633.8	636.9	598.8	543.8	488.6	464.7	440.7	907.3	1373.9	3133.1	4892.3
77.5°	540.1	541.7	479.0	425.5	372.0	355.6	339.4	614.9	890.3	2192.9	3495.5
80°	433.2	433.5	358.4	313.2	267.9	261.2	254.4	396.2	537.9	1412.9	2287.8
82.5°	318.7	315.1	251.0	217.7	184.3	183.0	181.8	243.6	305.7	817.7	1329.8
85°	209.8	205.1	157.5	133.1	108.6	109.4	110.0	130.3	150.7	367.9	585.1
87.5°	92.7	86.8	66.9	57.0	47.0	47.6	48.2	54.0	59.9	120.4	181.1
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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CATALOG NUMBER: NAV-SB4A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5
2.5°	2370.0	2379.0	2391.7	2404.4	2412.0	2419.6	2423.4	2427.2	2425.6	2427.2	2423.4
5°	2570.1	2601.4	2632.4	2663.6	2680.4	2697.2	2707.4	2717.7	2725.5	2717.7	2707.4
7.5°	2768.3	2819.2	2864.9	2910.6	2938.2	2965.7	2980.6	2995.5	3002.6	2995.5	2980.6
10°	2914.5	2974.7	3028.4	3082.0	3114.5	3146.9	3161.3	3175.8	3181.2	3175.8	3161.3
12.5°	3003.4	3068.5	3117.0	3165.4	3189.0	3212.6	3220.4	3228.4	3229.3	3228.4	3220.4
15°	3045.4	3101.6	3132.0	3162.5	3163.4	3164.2	3155.8	3147.4	3137.4	3147.4	3155.8
17.5°	3055.8	3093.8	3094.4	3094.9	3060.8	3026.6	2995.4	2964.0	2942.0	2964.0	2995.4
20°	3062.6	3075.9	3035.9	2995.9	2920.5	2845.3	2790.4	2735.5	2701.9	2735.5	2790.4
22.5°	3068.6	3051.3	2968.4	2885.5	2774.8	2664.0	2595.4	2526.8	2489.5	2526.8	2595.4
25°	3078.5	3023.6	2897.8	2771.9	2637.4	2502.8	2430.8	2358.8	2323.6	2358.8	2430.8
27.5°	3099.3	3001.4	2834.6	2668.0	2518.8	2369.7	2298.8	2227.9	2194.6	2227.9	2298.8
30°	3137.6	2991.7	2786.5	2581.3	2425.9	2270.5	2204.7	2138.9	2107.9	2138.9	2204.7
32.5°	3185.6	2985.7	2753.6	2521.4	2375.4	2229.4	2177.7	2126.1	2103.7	2126.1	2177.7
35°	3264.7	3020.2	2778.2	2536.3	2434.9	2333.5	2321.5	2309.4	2307.6	2309.4	2321.5
37.5°	3430.1	3142.3	2922.4	2702.5	2696.0	2689.4	2744.4	2799.6	2828.2	2799.6	2744.4
40°	3720.0	3407.0	3243.5	3079.9	3195.3	3310.9	3444.7	3578.7	3645.4	3578.7	3444.7
42.5°	4140.3	3829.8	3735.6	3641.4	3893.2	4144.9	4388.5	4632.2	4775.2	4632.2	4388.5
45°	4687.9	4408.9	4367.3	4325.7	4729.0	5132.4	5532.7	5933.2	6176.2	5933.2	5532.7
47.5°	5340.9	5069.4	5060.9	5052.5	5634.4	6216.0	6802.1	7388.2	7732.4	7388.2	6802.1
50°	6122.8	5787.8	5789.2	5790.5	6540.4	7290.2	8063.9	8837.6	9305.3	8837.6	8063.9
52.5°	7023.1	6617.3	6576.3	6535.2	7430.8	8326.5	9283.7	10240.9	10801.6	10240.9	9283.7
55°	8061.7	7660.7	7500.7	7340.7	8337.6	9334.4	10475.5	11616.6	12283.5	11616.6	10475.5
57.5°	9184.6	8966.2	8645.3	8324.4	9331.0	10337.4	11630.1	12922.5	13749.4	12922.5	11630.1
60°	10310.5	10649.7	10251.2	9852.7	10805.2	11757.8	13141.6	14525.5	15419.2	14525.5	13141.6
62.5°	10609.6	11536.4	11491.5	11446.5	12319.0	13191.6	14508.3	15824.9	16650.9	15824.9	14508.3
65°	9975.1	10844.9	11017.0	11189.1	12297.9	13406.9	14683.6	15960.3	16663.5	15960.3	14683.6
67.5°	9158.7	9986.0	10066.7	10147.3	11302.7	12458.1	13740.2	15022.4	15573.3	15022.4	13740.2
70°	8301.6	9201.4	9237.5	9273.7	10306.9	11340.1	12443.4	13546.8	13853.0	13546.8	12443.4
72.5°	7326.4	8359.2	8385.1	8410.9	9219.4	10027.7	10854.1	11680.4	11711.4	11680.4	10854.1
75°	5961.1	7029.9	7125.8	7221.8	7850.7	8479.6	9061.4	9643.1	9487.2	9643.1	9061.4
77.5°	4493.2	5490.9	5628.3	5765.5	6243.7	6721.7	7134.3	7547.0	7279.0	7547.0	7134.3
80°	3127.2	3966.4	4137.1	4307.8	4668.9	5029.8	5246.5	5463.1	5032.1	5463.1	5246.5
82.5°	1903.7	2477.6	2668.3	2858.9	3107.5	3356.1	3446.5	3536.8	3198.1	3536.8	3446.5
85°	889.7	1194.2	1356.4	1518.5	1722.8	1926.9	1978.2	2029.5	1758.3	2029.5	1978.2
87.5°	283.5	385.8	476.3	566.8	668.9	771.0	775.4	779.7	654.6	779.7	775.4
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: P965743

CATALOG NUMBER: NAV-SB4A-827-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5	2195.5
2.5°	2419.6	2412.0	2404.4	2391.7	2379.0	2370.0	2361.1
5°	2697.2	2680.4	2663.6	2632.4	2601.4	2570.1	2538.8
7.5°	2965.7	2938.2	2910.6	2864.9	2819.2	2768.3	2717.5
10°	3146.9	3114.5	3082.0	3028.4	2974.7	2914.5	2854.3
12.5°	3212.6	3189.0	3165.4	3117.0	3068.5	3003.4	2938.2
15°	3164.2	3163.4	3162.5	3132.0	3101.6	3045.4	2989.1
17.5°	3026.6	3060.8	3094.9	3094.4	3093.8	3055.8	3017.8
20°	2845.3	2920.5	2995.9	3035.9	3075.9	3062.6	3049.4
22.5°	2664.0	2774.8	2885.5	2968.4	3051.3	3068.6	3086.1
25°	2502.8	2637.4	2771.9	2897.8	3023.6	3078.5	3133.2
27.5°	2369.7	2518.8	2668.0	2834.6	3001.4	3099.3	3197.3
30°	2270.5	2425.9	2581.3	2786.5	2991.7	3137.6	3283.6
32.5°	2229.4	2375.4	2521.4	2753.6	2985.7	3185.6	3385.6
35°	2333.5	2434.9	2536.3	2778.2	3020.2	3264.7	3509.4
37.5°	2689.4	2696.0	2702.5	2922.4	3142.3	3430.1	3717.9
40°	3310.9	3195.3	3079.9	3243.5	3407.0	3720.0	4033.0
42.5°	4144.9	3893.2	3641.4	3735.6	3829.8	4140.3	4450.9
45°	5132.4	4729.0	4325.7	4367.3	4408.9	4687.9	4966.8
47.5°	6216.0	5634.4	5052.5	5060.9	5069.4	5340.9	5612.2
50°	7290.2	6540.4	5790.5	5789.2	5787.8	6122.8	6458.1
52.5°	8326.5	7430.8	6535.2	6576.3	6617.3	7023.1	7429.1
55°	9334.4	8337.6	7340.7	7500.7	7660.7	8061.7	8462.8
57.5°	10337.4	9331.0	8324.4	8645.3	8966.2	9184.6	9403.0
60°	11757.8	10805.2	9852.7	10251.2	10649.7	10310.5	9971.3
62.5°	13191.6	12319.0	11446.5	11491.5	11536.4	10609.6	9682.7
65°	13406.9	12297.9	11189.1	11017.0	10844.9	9975.1	9105.2
67.5°	12458.1	11302.7	10147.3	10066.7	9986.0	9158.7	8331.3
70°	11340.1	10306.9	9273.7	9237.5	9201.4	8301.6	7401.6
72.5°	10027.7	9219.4	8410.9	8385.1	8359.2	7326.4	6293.8
75°	8479.6	7850.7	7221.8	7125.8	7029.9	5961.1	4892.3
77.5°	6721.7	6243.7	5765.5	5628.3	5490.9	4493.2	3495.5
80°	5029.8	4668.9	4307.8	4137.1	3966.4	3127.2	2287.8
82.5°	3356.1	3107.5	2858.9	2668.3	2477.6	1903.7	1329.8
85°	1926.9	1722.8	1518.5	1356.4	1194.2	889.7	585.1
87.5°	771.0	668.9	566.8	476.3	385.8	283.5	181.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)