

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: P961867

Luminaire Tested: **NAV-SB2B-727-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-727-U-SLR-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

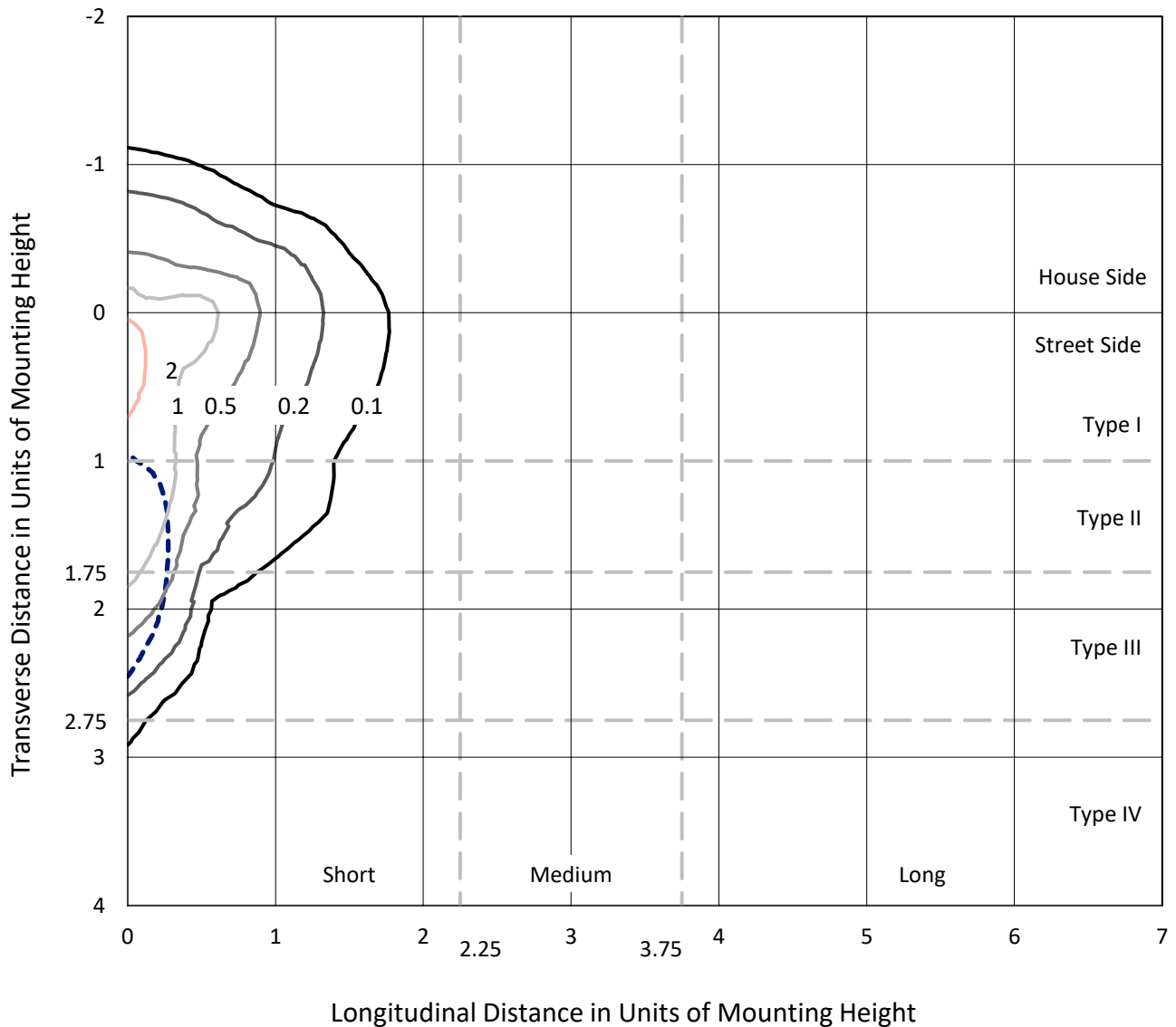
Lumens per Lamp: N/A  
Luminaire Lumens: 8171.3 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P961867  
 CATALOG NUMBER: NAV-SB2B-727-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

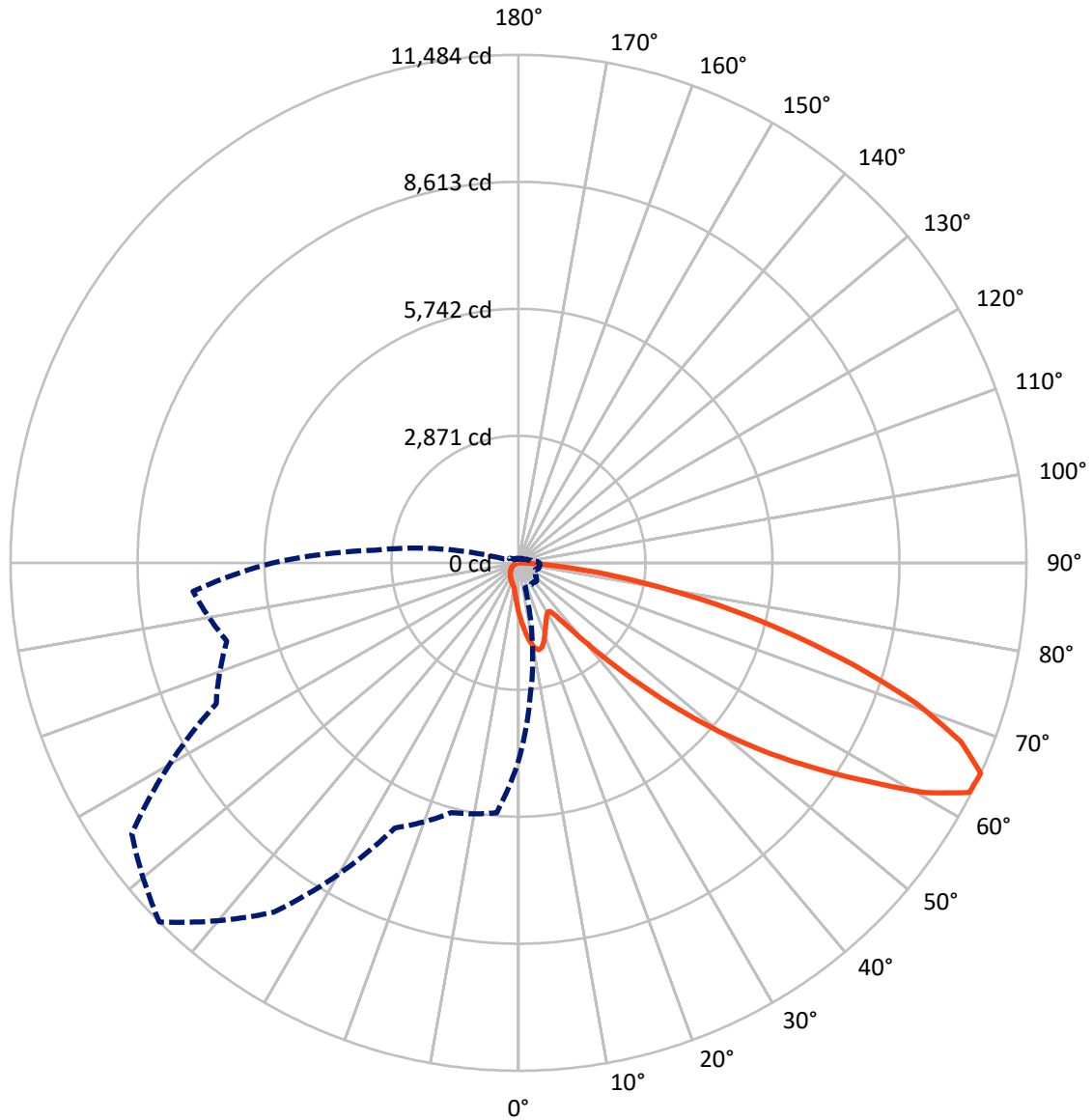
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P961867  
CATALOG NUMBER: NAV-SB2B-727-U-SLR-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P961867  
 CATALOG NUMBER: NAV-SB2B-727-U-SLR-HSS

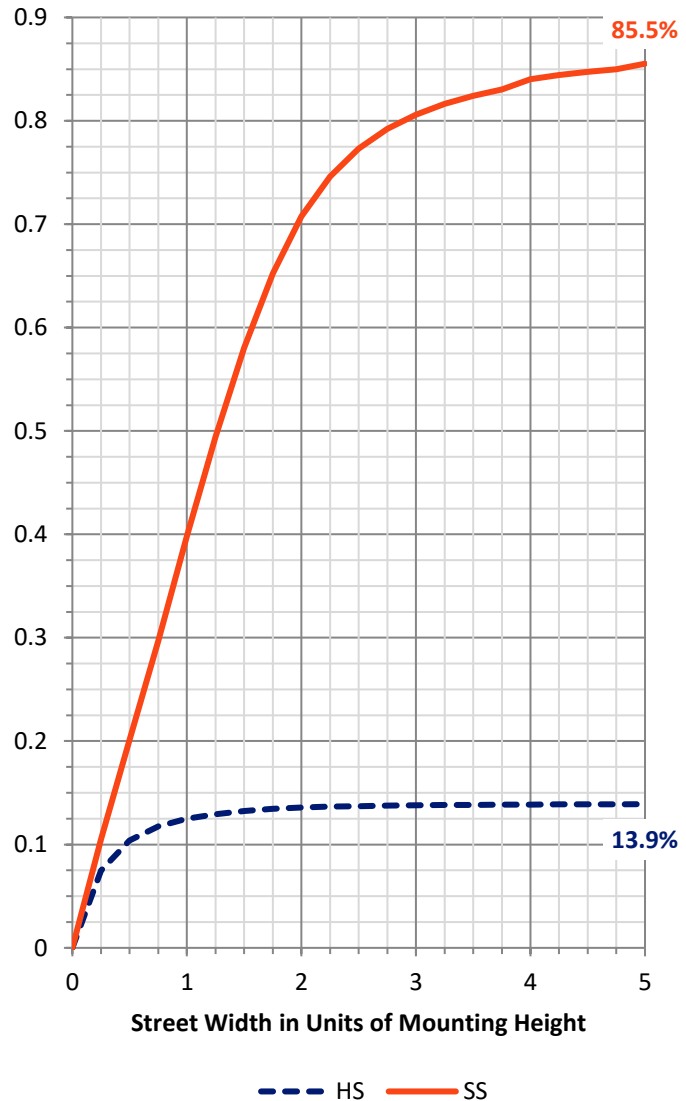
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1144.3	0.0	1144.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	7027.0	0.0	7027.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	8171.3	0.0	8171.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	1.4
10°-20°	333.9	4.1
20°-30°	492.0	6.0
30°-40°	632.0	7.7
40°-50°	1022.2	12.5
50°-60°	1792.5	21.9
60°-70°	2242.9	27.4
70°-80°	1310.6	16.0
80°-90°	233.8	2.9
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°	8171.3	100.0
0°-180°	8171.3	100.0

**Coefficient of Utilization**

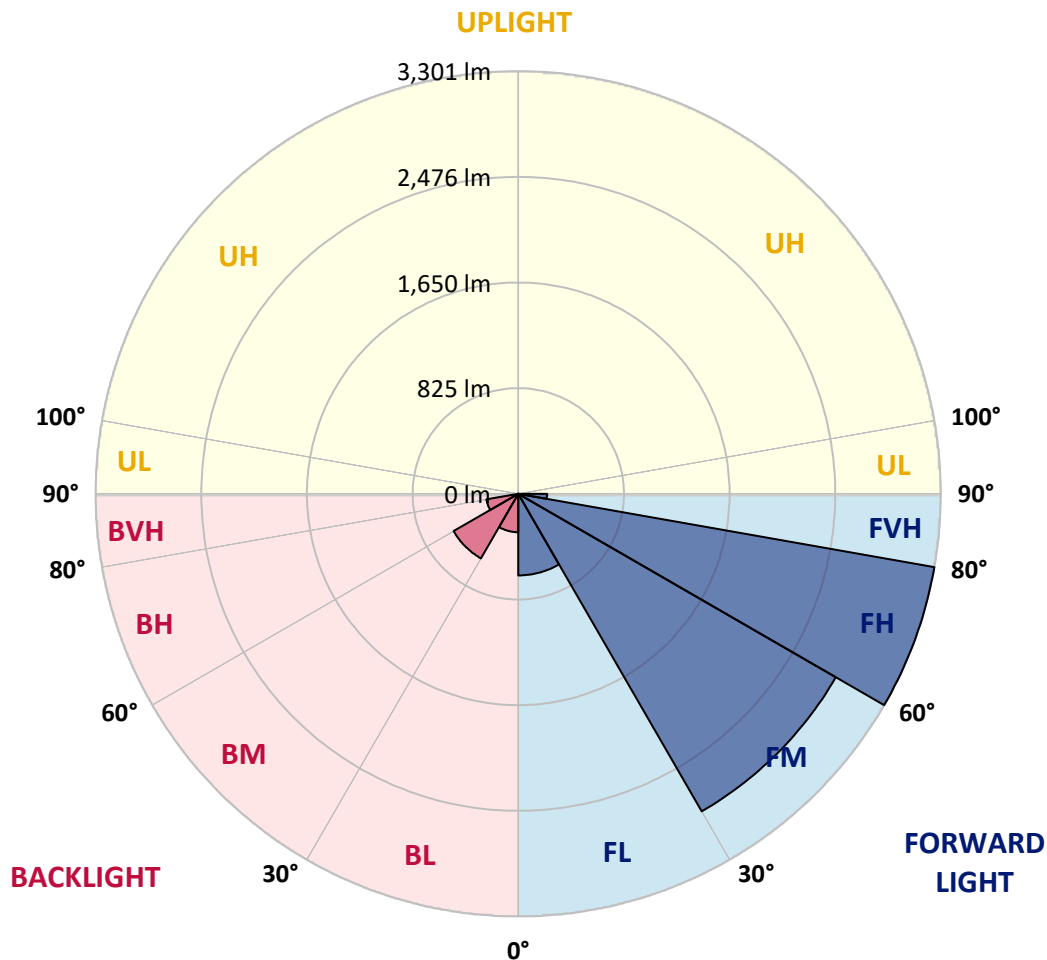


REPORT NUMBER: P961867  
 CATALOG NUMBER: NAV-SB2B-727-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.3	7.8			
FM (30°-60°)	2864.0	35.0			
FH (60°-80°)	3300.8	40.4			G2/5000
FVH (80°-90°)	224.9	2.8			G2/225
BL (0°-30°)	299.9	3.7	B1/500		
BM (30°-60°)	582.7	7.1	B1/1000		
BH (60°-80°)	252.7	3.1	B1/500		G1/500
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type IV Short



REPORT NUMBER: P961867  
 CATALOG NUMBER: NAV-SB2B-727-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1278.4	1256.4	1243.5	1211.4	1179.3	1153.4	1118.5	1095.4	1067.8	1041.4	1017.7
5°	1424.7	1389.3	1346.5	1287.9	1234.5	1179.9	1127.0	1074.6	1019.5	968.8	937.8
7.5°	1548.6	1497.3	1421.9	1344.3	1276.1	1210.3	1148.3	1079.1	1012.1	932.7	890.5
10°	1643.2	1577.9	1478.8	1376.9	1298.7	1232.3	1172.0	1113.5	1045.9	950.2	897.3
12.5°	1700.6	1630.8	1513.1	1393.8	1304.3	1230.0	1183.3	1157.3	1130.9	1035.8	973.9
15°	1742.8	1667.4	1537.3	1405.6	1291.3	1200.2	1165.8	1191.7	1222.1	1161.3	1089.8
17.5°	1786.7	1707.3	1568.9	1410.7	1256.4	1142.2	1127.5	1194.5	1264.8	1262.1	1191.2
20°	1828.4	1749.6	1596.4	1407.3	1200.2	1071.8	1084.8	1170.3	1251.9	1286.3	1247.9
22.5°	1876.2	1792.9	1622.9	1394.3	1127.0	1005.9	1046.4	1132.0	1203.6	1244.0	1232.3
25°	1934.8	1847.5	1660.1	1375.2	1048.2	951.3	1007.6	1087.5	1145.5	1173.7	1173.1
27.5°	1997.8	1912.8	1709.6	1365.1	984.5	912.5	963.7	1034.6	1086.4	1106.2	1106.2
30°	2076.0	1988.8	1768.1	1353.8	942.9	890.0	918.1	973.2	1024.0	1043.7	1043.7
32.5°	2161.6	2073.3	1824.4	1326.8	917.6	873.1	873.6	908.6	954.7	978.4	981.7
35°	2268.5	2174.5	1884.7	1267.7	897.3	853.4	830.4	847.2	885.5	913.6	921.0
37.5°	2421.2	2307.4	1958.4	1183.3	867.5	823.0	784.7	788.6	817.9	848.9	860.2
40°	2631.7	2485.8	2045.1	1095.4	824.7	780.2	734.6	732.9	754.3	784.7	797.0
42.5°	2916.4	2721.7	2149.2	1011.6	783.6	728.4	681.7	678.9	695.8	722.2	735.1
45°	3292.5	3023.4	2277.0	939.5	751.5	677.7	631.6	630.5	644.5	667.6	681.1
47.5°	3773.8	3442.8	2404.8	890.5	734.6	637.8	590.5	592.8	605.2	626.0	635.5
50°	4396.9	3989.4	2443.6	865.8	734.6	616.4	553.9	565.2	575.3	591.0	596.7
52.5°	5144.0	4514.0	2315.3	843.3	739.1	619.2	523.0	547.1	554.4	568.0	570.2
55°	5836.3	4771.3	1990.4	812.3	740.3	636.6	496.5	532.5	546.0	551.1	550.5
57.5°	6238.3	4682.9	1609.4	759.9	735.7	648.5	479.6	514.6	540.4	543.8	538.7
60°	6161.7	4372.8	1184.9	720.0	702.5	644.0	474.6	486.9	528.0	533.1	526.3
62.5°	5571.8	3852.6	822.5	689.0	629.3	624.2	472.8	443.6	501.0	513.4	503.8
65°	4478.5	3033.0	581.0	593.3	551.7	581.5	463.8	398.5	468.3	485.2	470.6
67.5°	3249.1	2052.4	419.3	480.7	499.9	512.3	443.6	365.9	431.2	453.7	434.6
70°	2085.1	1108.4	294.4	317.4	421.1	435.1	408.7	336.6	393.5	419.3	398.5
72.5°	1482.1	654.7	211.7	222.3	338.4	362.5	359.7	304.0	349.5	381.1	356.3
75°	1022.8	360.8	143.0	158.8	245.4	294.4	277.5	261.2	296.1	328.2	304.0
77.5°	641.1	161.5	85.6	110.3	161.0	231.3	190.2	202.1	230.8	260.7	235.3
80°	356.9	62.5	47.9	73.2	87.8	168.3	105.3	130.1	170.0	191.4	171.2
82.5°	77.7	7.9	21.4	31.6	34.3	98.0	55.8	75.4	106.9	105.3	91.2
85°	0.0	0.0	3.9	4.5	2.3	42.2	20.3	24.8	34.8	32.7	24.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
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: P961867  
 CATALOG NUMBER: NAV-SB2B-727-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1013.2	985.6	965.4	955.3	946.8	954.7	959.2	959.2	978.4	989.6	994.1
5°	918.1	868.6	830.9	805.5	790.4	795.4	801.0	807.2	831.4	847.8	858.4
7.5°	852.3	776.2	718.8	683.4	664.8	667.6	671.6	676.6	700.3	716.6	730.6
10°	839.9	730.6	649.6	602.9	580.4	576.5	574.2	572.5	586.6	598.9	610.2
12.5°	890.5	732.9	619.8	562.9	535.4	523.5	510.0	499.3	501.5	509.4	523.5
15°	981.1	761.7	610.2	542.1	507.8	488.0	472.3	459.3	456.5	459.3	461.6
17.5°	1084.8	800.4	609.1	524.1	481.3	461.0	448.1	436.2	432.3	432.9	435.7
20°	1153.4	831.4	605.7	503.8	455.9	438.0	426.7	414.9	410.9	412.0	412.7
22.5°	1160.2	847.8	600.6	481.3	430.6	415.4	404.2	393.5	392.9	392.9	396.3
25°	1123.6	847.8	589.9	461.0	406.4	392.9	382.7	369.8	372.1	373.2	377.7
27.5°	1066.7	827.5	569.7	444.7	385.6	371.6	361.4	349.5	352.4	354.0	359.2
30°	1010.4	801.6	545.5	426.1	365.9	349.5	342.2	332.1	333.2	335.5	341.1
32.5°	958.1	774.0	516.8	410.9	346.2	329.8	324.2	312.9	314.7	316.9	323.1
35°	906.3	743.6	483.0	392.9	328.2	311.8	307.4	294.4	295.5	298.9	305.7
37.5°	850.5	711.6	455.4	374.9	310.8	293.9	289.4	275.8	277.0	280.8	288.7
40°	792.0	680.0	428.3	355.8	292.1	275.3	271.3	256.7	257.8	262.3	270.8
42.5°	732.9	645.6	407.5	331.0	273.1	255.0	251.0	237.6	239.2	244.3	252.8
45°	678.3	604.5	394.0	303.4	255.0	234.7	230.8	218.4	221.8	227.4	235.9
47.5°	631.6	562.3	388.4	280.3	235.9	213.9	210.5	200.4	206.0	212.2	218.9
50°	591.6	521.8	381.1	256.7	217.8	195.9	192.5	185.7	193.1	199.3	205.5
52.5°	562.9	475.7	365.3	235.3	202.1	180.7	179.6	176.2	183.0	188.6	194.2
55°	538.1	427.8	340.0	216.7	188.0	167.8	168.9	167.2	172.8	177.3	182.3
57.5°	515.7	386.1	307.9	202.1	172.8	156.5	159.9	157.6	160.4	163.3	169.4
60°	488.6	344.0	269.7	185.7	154.8	145.2	149.1	143.0	142.4	143.5	145.2
62.5°	448.6	287.1	229.7	165.5	139.0	132.8	134.6	122.7	113.7	113.7	115.4
65°	392.9	230.8	192.5	143.0	121.1	115.9	114.8	98.0	85.6	84.5	89.5
67.5°	328.2	189.7	159.9	120.4	100.8	97.4	98.5	86.1	73.7	72.6	78.2
70°	267.4	157.0	128.9	96.2	77.7	81.1	86.1	73.7	61.9	60.3	65.3
72.5°	217.3	124.9	100.8	73.7	57.4	67.0	73.2	60.3	49.0	47.9	52.4
75°	167.8	91.7	72.1	50.1	41.6	51.8	57.4	43.9	34.8	33.2	37.1
77.5°	112.0	56.9	40.5	31.6	24.8	35.5	38.2	23.1	20.3	19.7	22.5
80°	68.2	26.4	17.4	15.2	8.4	12.9	15.2	9.5	10.7	11.3	13.5
82.5°	34.3	7.3	2.8	0.5	0.0	0.0	4.5	2.3	4.5	5.6	8.4
85°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.8	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
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: P961867  
 CATALOG NUMBER: NAV-SB2B-727-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1025.6	1049.3	1071.8	1107.8	1144.9	1181.5	1218.7	1254.7	1267.7	1277.3	1298.7
5°	907.4	951.9	1003.7	1075.1	1151.7	1230.5	1310.5	1383.6	1416.9	1439.4	1490.0
7.5°	785.3	843.3	917.6	1025.1	1144.9	1270.5	1396.0	1511.5	1564.9	1608.2	1685.4
10°	664.2	727.3	821.3	944.0	1106.2	1286.3	1459.6	1618.4	1687.7	1742.2	1846.9
12.5°	557.8	616.9	715.4	851.2	1045.3	1273.9	1496.2	1687.0	1768.6	1830.0	1944.8
15°	483.0	524.6	611.9	758.3	973.2	1233.9	1498.4	1719.7	1809.2	1873.4	1973.0
17.5°	441.4	455.4	512.3	663.7	893.4	1181.5	1477.6	1731.0	1826.7	1886.3	1955.6
20°	418.8	421.1	436.9	541.0	790.9	1132.6	1458.0	1742.2	1843.0	1893.1	1913.9
22.5°	400.8	400.8	404.8	442.5	658.6	1074.0	1451.8	1762.0	1865.5	1896.5	1853.7
25°	384.5	384.5	385.6	395.8	521.8	984.5	1447.8	1792.3	1896.5	1905.0	1787.3
27.5°	367.6	368.2	368.2	373.8	420.5	862.9	1430.9	1831.8	1933.7	1916.1	1723.6
30°	350.7	351.8	351.8	355.8	372.1	720.6	1397.7	1879.0	1982.0	1930.8	1660.6
32.5°	333.8	335.0	335.0	338.4	350.1	575.3	1356.1	1922.4	2031.0	1937.0	1602.1
35°	316.3	318.1	316.9	321.4	333.8	457.7	1303.2	1965.7	2083.9	1956.7	1573.4
37.5°	298.9	300.0	299.5	304.0	318.1	395.1	1241.8	1998.3	2156.0	2000.6	1607.7
40°	281.5	280.8	280.8	286.0	301.1	377.2	1164.7	2050.1	2259.5	2077.8	1757.5
42.5°	263.4	263.4	262.3	267.9	286.5	363.7	1090.9	2143.1	2410.4	2200.5	2023.1
45°	247.1	246.5	244.3	249.4	272.4	340.0	1065.1	2316.4	2633.3	2399.1	2344.6
47.5°	231.3	230.8	225.2	229.7	255.5	318.6	1161.8	2600.1	2942.4	2691.3	2645.7
50°	217.3	217.8	207.2	211.0	238.7	302.3	1371.9	2968.3	3352.8	3084.7	2931.1
52.5°	204.4	204.4	190.2	192.5	217.8	287.6	1571.6	3367.3	3894.3	3633.6	3263.8
55°	191.4	190.2	174.5	175.6	197.0	266.8	1601.5	3756.9	4632.8	4459.5	3718.6
57.5°	176.7	174.5	159.9	159.9	177.8	251.6	1388.2	4056.3	5549.2	5673.1	4374.4
60°	158.8	157.0	147.5	144.6	162.7	265.2	979.5	4091.3	6140.3	7286.9	5630.3
62.5°	135.7	138.0	132.8	128.9	148.0	275.3	580.4	3810.4	5997.3	7800.4	7134.4
65°	106.9	115.9	114.8	112.0	162.7	232.0	342.9	3271.1	5558.8	7386.0	6827.6
67.5°	91.2	97.4	95.7	95.7	170.6	176.2	215.6	2555.6	4955.4	6894.6	6098.6
70°	77.7	83.8	77.7	77.7	128.9	106.9	149.1	1784.4	4304.1	6350.8	5620.2
72.5°	64.2	70.3	63.7	59.1	103.0	79.9	109.2	1115.1	3686.0	5784.6	5292.6
75°	49.0	56.3	51.2	45.6	68.2	59.7	82.7	647.9	3053.8	4949.2	4825.9
77.5°	31.0	40.5	38.2	32.1	50.1	43.4	59.7	385.6	2356.4	3867.2	4150.9
80°	19.2	20.8	21.4	20.3	28.7	29.3	40.5	219.6	1612.7	2695.2	3243.0
82.5°	12.4	12.4	9.5	10.7	14.0	16.9	23.1	82.7	947.9	1640.9	2257.3
85°	9.0	7.9	5.0	5.0	6.8	8.4	9.0	25.3	384.5	647.9	882.6
87.5°	4.5	3.9	1.6	2.3	3.4	2.8	2.3	1.1	96.9	207.2	145.2
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: P961867  
 CATALOG NUMBER: NAV-SB2B-727-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5	1131.5
2.5°	1309.9	1327.4	1328.5	1328.5	1313.3	1312.7	1281.8	1278.4
5°	1542.4	1553.7	1556.5	1550.8	1520.5	1497.9	1437.7	1424.7
7.5°	1755.2	1777.7	1777.7	1764.2	1714.6	1668.5	1581.3	1548.6
10°	1925.2	1951.1	1945.4	1917.9	1855.4	1791.8	1685.9	1643.2
12.5°	2008.0	2034.4	2019.8	1988.2	1927.4	1860.5	1749.0	1700.6
15°	2006.2	1999.0	1983.7	1979.8	1950.5	1899.8	1795.7	1742.8
17.5°	1934.8	1872.8	1861.0	1900.5	1937.6	1925.2	1836.2	1786.7
20°	1821.6	1713.5	1702.8	1778.3	1884.1	1938.2	1873.9	1828.4
22.5°	1702.2	1585.8	1561.0	1644.3	1803.6	1942.1	1921.8	1876.2
25°	1589.2	1472.0	1447.3	1524.9	1714.1	1935.3	1973.6	1934.8
27.5°	1494.6	1381.4	1358.3	1436.0	1628.0	1916.1	2025.4	1997.8
30°	1421.4	1316.6	1299.8	1374.6	1553.7	1892.6	2091.2	2076.0
32.5°	1378.6	1302.1	1308.2	1369.6	1513.7	1866.6	2154.2	2161.6
35°	1420.8	1424.1	1478.3	1503.6	1550.8	1862.7	2239.8	2268.5
37.5°	1630.8	1747.8	1859.9	1839.1	1732.7	1908.2	2367.6	2421.2
40°	1988.2	2228.6	2410.4	2331.1	2063.1	2047.8	2551.7	2631.7
42.5°	2425.0	2832.6	3132.1	2919.3	2489.2	2292.2	2814.5	2916.4
45°	2886.1	3577.4	4049.1	3606.6	2943.5	2634.5	3212.6	3292.5
47.5°	3371.8	4482.5	5092.7	4368.8	3364.6	3024.0	3755.2	3773.8
50°	3903.3	5474.9	6156.7	5130.4	3771.0	3470.3	4418.4	4396.9
52.5°	4409.3	6495.5	7198.1	5895.4	4127.9	4024.3	5187.8	5144.0
55°	4892.3	7515.5	8245.6	6630.6	4464.5	4756.1	6102.0	5836.3
57.5°	5452.4	8432.5	9325.2	7369.1	4935.1	5706.3	7124.3	6238.3
60°	6280.5	9474.5	10546.2	8381.3	5830.1	6704.9	7490.7	6161.7
62.5°	7337.7	10432.6	11434.0	9373.1	6729.1	6892.9	6950.9	5571.8
65°	7543.1	10675.2	11484.1	9638.3	6613.2	5847.0	5674.8	4478.5
67.5°	6998.2	10236.7	10783.8	9144.6	5849.9	4518.5	4258.5	3249.1
70°	6386.9	9400.7	9563.4	8305.3	5145.1	3323.5	2875.9	2085.1
72.5°	5760.3	8285.6	7949.0	7212.6	4521.9	2420.0	2074.4	1482.1
75°	5016.1	6819.2	6261.3	5992.9	3743.9	1899.3	1500.7	1022.8
77.5°	4017.0	4800.0	4650.8	4645.2	2813.4	1387.5	1001.4	641.1
80°	2833.7	3115.2	3039.2	3498.5	1887.4	1006.4	602.9	356.9
82.5°	1371.9	1722.5	1768.1	2083.3	918.1	592.1	139.0	77.7
85°	537.0	830.9	700.8	790.9	257.8	164.9	3.4	0.0
87.5°	60.3	96.2	88.4	69.8	31.6	6.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)