

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: P967633

Luminaire Tested: **NAV-SB5A-722-U-SLR-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967633  
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-SB5A-722-U-SLR-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

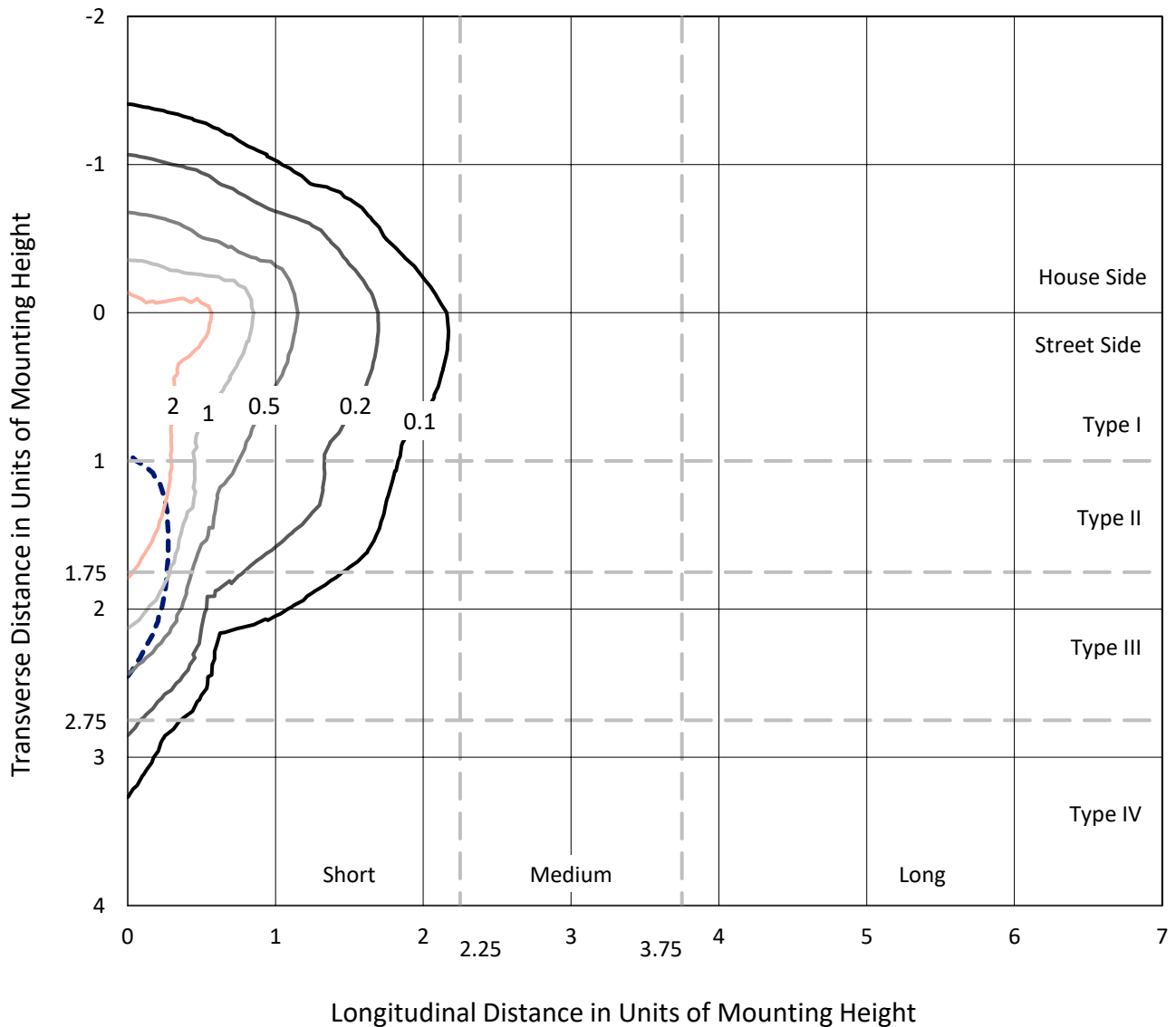
Lumens per Lamp: N/A  
Luminaire Lumens: 14643.1 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

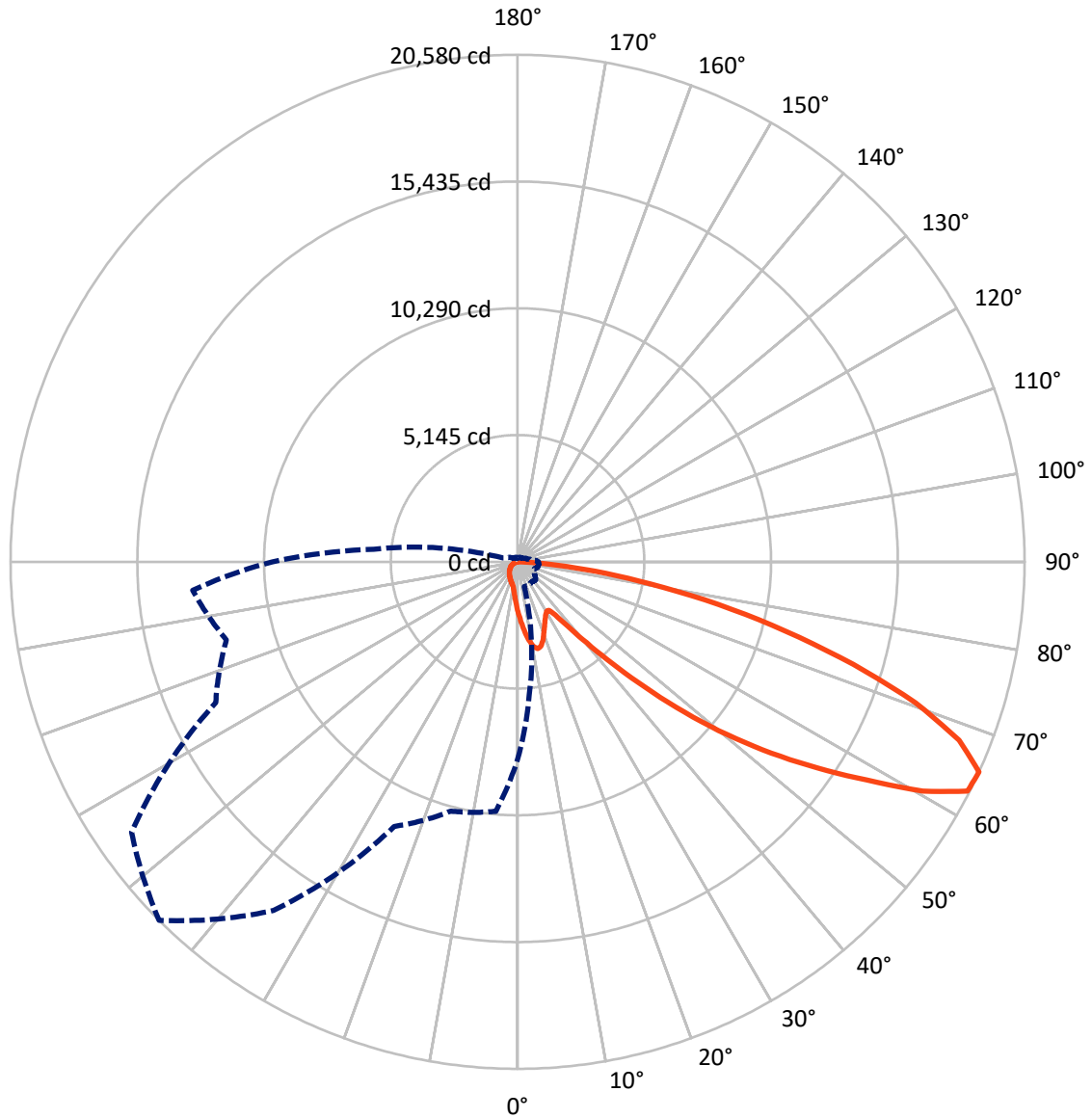
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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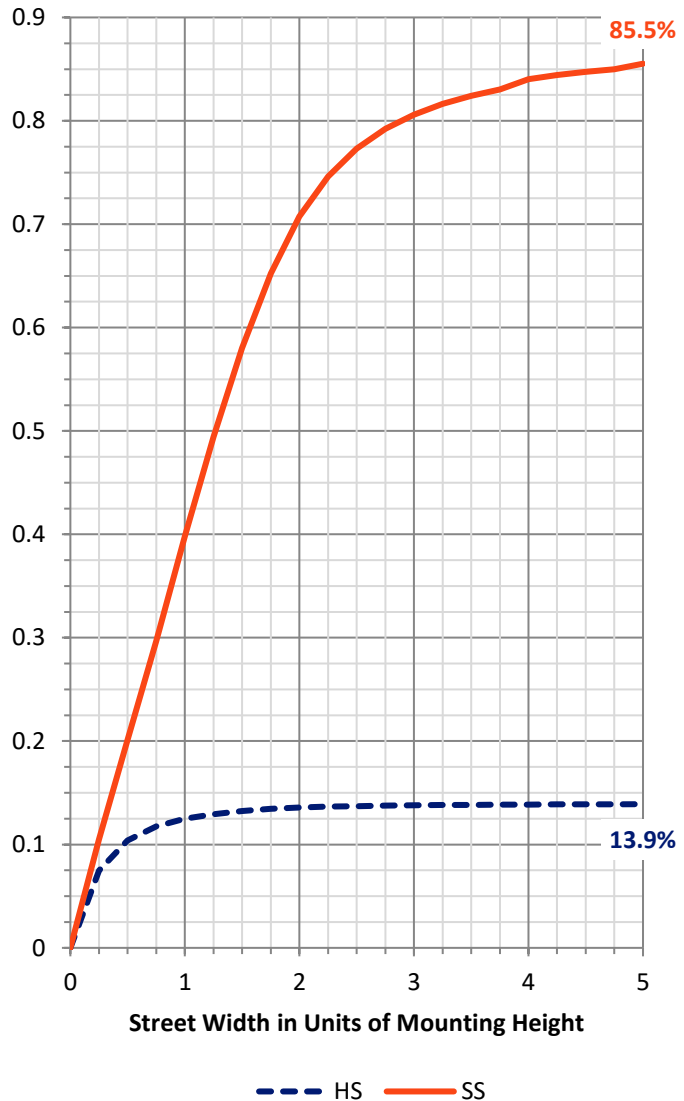
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2050.7	0.0	2050.7
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	12592.5	0.0	12592.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	14643.1	0.0	14643.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.6	1.4
10°-20°	598.4	4.1
20°-30°	881.6	6.0
30°-40°	1132.6	7.7
40°-50°	1831.8	12.5
50°-60°	3212.2	21.9
60°-70°	4019.3	27.4
70°-80°	2348.7	16.0
80°-90°	419.0	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°	14643.1	100.0
0°-180°	14643.1	100.0

**Coefficient of Utilization**



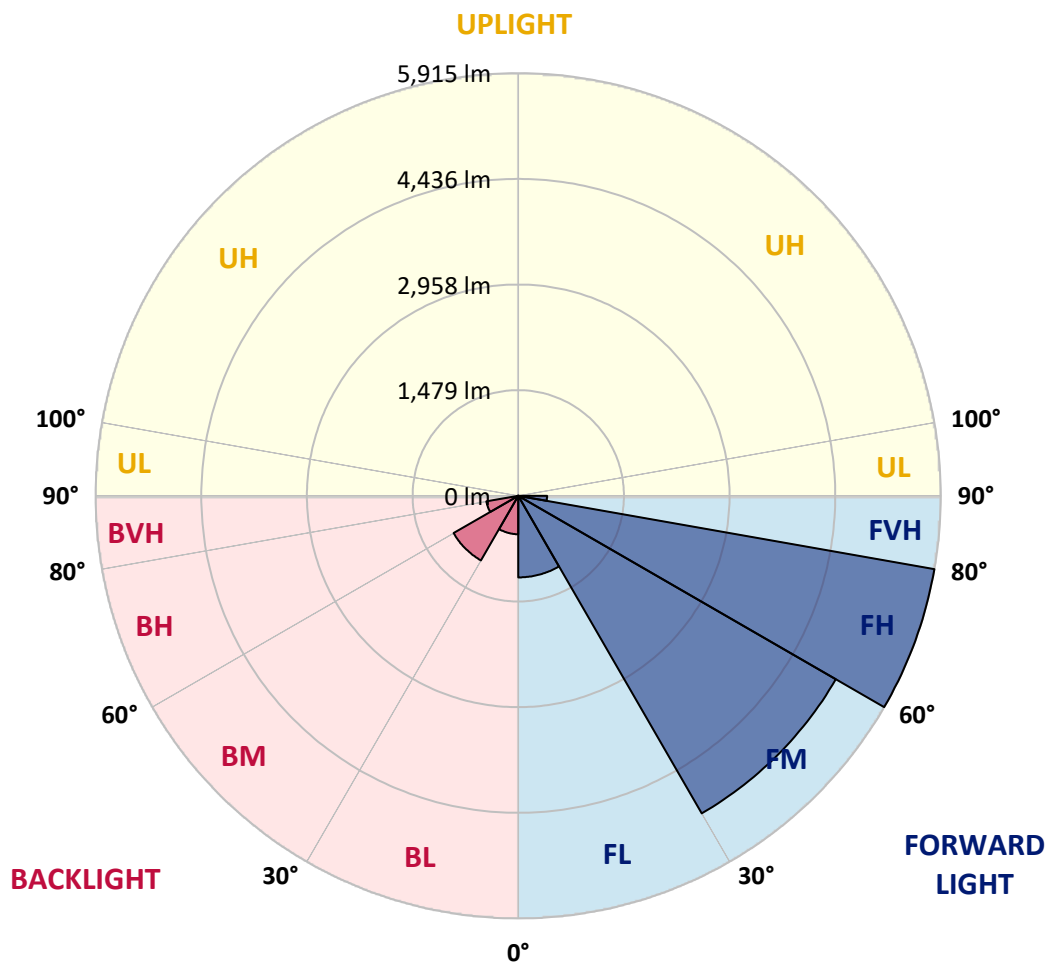
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1142.1	7.8			
FM (30°-60°)	5132.3	35.0			
FH (60°-80°)	5915.2	40.4			G3/7500
FVH (80°-90°)	402.9	2.8			G3/500
BL (0°-30°)	537.5	3.7	B2/1000		
BM (30°-60°)	1044.2	7.1	B2/2500		
BH (60°-80°)	452.8	3.1	B1/500		G1/500
BVH (80°-90°)	16.1	0.1			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°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7
2.5°	2290.9	2251.5	2228.4	2170.8	2113.3	2066.9	2004.4	1963.1	1913.6	1866.2	1823.9
5°	2553.2	2489.6	2413.0	2308.0	2212.3	2114.4	2019.6	1925.8	1826.9	1736.0	1680.6
7.5°	2775.1	2683.3	2548.1	2409.0	2286.9	2168.8	2057.9	1933.8	1813.7	1671.5	1595.8
10°	2944.6	2827.6	2650.0	2467.4	2327.2	2208.2	2100.2	1995.4	1874.3	1702.8	1607.9
12.5°	3047.4	2922.4	2711.5	2497.7	2337.3	2204.2	2120.4	2074.0	2026.6	1856.1	1745.2
15°	3123.1	2988.0	2754.9	2518.8	2314.1	2150.7	2089.2	2135.6	2190.0	2081.1	1952.9
17.5°	3201.8	3059.5	2811.4	2528.0	2251.5	2046.8	2020.6	2140.6	2266.7	2261.7	2134.6
20°	3276.4	3135.3	2860.9	2521.9	2150.7	1920.6	1943.9	2097.3	2243.5	2305.0	2236.4
22.5°	3362.2	3212.9	2908.2	2498.7	2019.6	1802.7	1875.2	2028.6	2156.7	2229.4	2208.2
25°	3467.1	3310.7	2974.9	2464.4	1878.3	1704.8	1805.6	1948.9	2052.9	2103.3	2102.3
27.5°	3580.1	3427.8	3063.6	2446.3	1764.3	1635.2	1727.0	1854.1	1946.9	1982.2	1982.2
30°	3720.3	3563.9	3168.5	2426.1	1689.7	1594.9	1645.3	1744.1	1835.0	1870.2	1870.2
32.5°	3873.7	3715.2	3269.4	2377.7	1644.3	1564.6	1565.6	1628.1	1710.8	1753.3	1759.3
35°	4065.3	3896.8	3377.4	2271.7	1607.9	1529.3	1487.9	1518.2	1586.8	1637.2	1650.4
37.5°	4338.7	4135.0	3509.5	2120.4	1554.5	1474.8	1406.2	1413.3	1465.7	1521.2	1541.4
40°	4715.9	4454.6	3664.8	1963.1	1477.8	1398.1	1316.4	1313.4	1351.8	1406.2	1428.4
42.5°	5226.4	4877.4	3851.4	1812.7	1404.1	1305.3	1221.6	1216.6	1246.8	1294.3	1317.4
45°	5900.2	5418.0	4080.4	1683.7	1346.6	1214.5	1131.8	1129.9	1155.1	1196.4	1220.6
47.5°	6762.7	6169.6	4309.4	1595.8	1316.4	1142.9	1058.2	1062.2	1084.4	1121.8	1138.9
50°	7879.4	7149.1	4379.0	1551.4	1316.4	1104.6	992.6	1012.8	1030.9	1059.2	1069.3
52.5°	9218.0	8089.2	4149.0	1511.2	1324.5	1109.7	937.2	980.5	993.6	1017.8	1021.9
55°	10458.8	8550.2	3567.0	1455.6	1326.6	1140.9	889.7	954.3	978.5	987.6	986.6
57.5°	11179.1	8391.9	2884.0	1361.8	1318.5	1162.0	859.5	922.0	968.4	974.5	965.3
60°	11041.9	7836.0	2123.4	1290.2	1258.9	1154.0	850.3	872.6	946.2	955.3	943.2
62.5°	9984.7	6904.0	1473.8	1234.7	1127.8	1118.7	847.4	794.9	897.8	920.0	902.8
65°	8025.6	5435.2	1041.0	1063.2	988.6	1042.0	831.2	714.2	839.3	869.5	843.4
67.5°	5822.5	3677.9	751.5	861.5	895.7	918.0	794.9	655.7	772.7	813.0	778.8
70°	3736.4	1986.2	527.6	569.0	754.5	779.8	732.4	603.2	705.1	751.5	714.2
72.5°	2656.1	1173.2	379.2	398.4	606.3	649.6	644.6	544.7	626.5	683.0	638.6
75°	1832.9	646.6	256.2	284.4	439.8	527.6	497.3	468.0	530.6	588.1	544.7
77.5°	1149.0	289.6	153.3	197.7	288.5	414.6	340.9	362.1	413.6	467.1	421.7
80°	639.6	111.9	85.8	131.1	157.3	301.7	188.6	233.0	304.6	343.0	306.7
82.5°	139.2	14.1	38.3	56.5	61.5	175.5	99.8	135.2	191.7	188.6	163.4
85°	0.0	0.0	7.1	8.1	4.0	75.6	36.3	44.4	62.5	58.5	44.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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

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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7
2.5°	1815.8	1766.4	1730.0	1711.9	1696.8	1710.8	1718.9	1718.9	1753.3	1773.4	1781.4
5°	1645.3	1556.6	1488.9	1443.5	1416.3	1425.4	1435.5	1446.6	1489.9	1519.2	1538.3
7.5°	1527.2	1391.1	1288.2	1224.7	1191.4	1196.4	1203.5	1212.6	1254.9	1284.1	1309.3
10°	1505.1	1309.3	1164.1	1080.4	1040.1	1033.0	1028.9	1025.9	1051.1	1073.3	1093.5
12.5°	1595.8	1313.4	1110.7	1008.8	959.3	938.2	913.9	894.7	898.8	913.0	938.2
15°	1758.3	1364.9	1093.5	971.4	909.9	874.6	846.3	823.2	818.2	823.2	827.2
17.5°	1943.9	1434.5	1091.5	939.1	862.5	826.2	803.0	781.8	774.7	775.7	780.7
20°	2066.9	1489.9	1085.5	902.8	817.1	784.8	764.6	743.4	736.4	738.4	739.4
22.5°	2079.0	1519.2	1076.4	862.5	771.7	744.5	724.3	705.1	704.1	704.1	710.1
25°	2013.5	1519.2	1057.2	826.2	728.4	704.1	685.9	662.8	666.8	668.8	676.9
27.5°	1911.6	1482.9	1020.9	796.9	691.0	665.7	647.6	626.5	631.5	634.5	643.6
30°	1810.8	1436.4	977.4	763.6	655.7	626.5	613.4	595.2	597.2	601.3	611.3
32.5°	1716.9	1387.0	926.1	736.4	620.4	591.1	581.1	560.9	563.9	568.0	579.0
35°	1624.1	1332.6	865.5	704.1	588.1	558.8	550.7	527.6	529.6	535.7	547.8
37.5°	1524.3	1275.1	816.1	671.8	556.9	526.5	518.5	494.3	496.3	503.4	517.5
40°	1419.3	1218.6	767.6	637.6	523.6	493.3	486.3	460.0	462.0	470.1	485.2
42.5°	1313.4	1157.0	730.3	593.2	489.2	456.9	449.9	425.7	428.8	437.8	452.9
45°	1215.5	1083.4	706.1	543.8	456.9	420.7	413.6	391.4	397.5	407.5	422.7
47.5°	1131.8	1007.8	696.1	502.4	422.7	383.3	377.3	359.2	369.2	380.3	392.4
50°	1060.2	935.1	683.0	460.0	390.4	351.1	345.0	332.9	346.0	357.1	368.2
52.5°	1008.8	852.4	654.7	421.7	362.1	323.8	321.7	315.7	327.9	337.9	348.0
55°	964.4	766.7	609.3	388.4	336.9	300.6	302.6	299.6	309.7	317.8	326.9
57.5°	924.0	692.0	551.8	362.1	309.7	280.4	286.5	282.5	287.5	292.5	303.6
60°	875.6	616.3	483.2	332.9	277.4	260.2	267.3	256.2	255.2	257.3	260.2
62.5°	804.0	514.4	411.5	296.5	249.2	238.1	241.1	219.9	203.8	203.8	206.8
65°	704.1	413.6	345.0	256.2	216.9	207.8	205.8	175.5	153.3	151.3	160.4
67.5°	588.1	340.0	286.5	215.9	180.6	174.6	176.5	154.4	132.1	130.2	140.2
70°	479.2	281.5	231.0	172.5	139.2	145.2	154.4	132.1	111.0	107.9	117.1
72.5°	389.4	224.0	180.6	132.1	102.9	120.0	131.1	107.9	87.7	85.8	93.8
75°	300.6	164.4	129.1	89.8	74.6	92.8	102.9	78.7	62.5	59.6	66.6
77.5°	200.7	101.9	72.7	56.5	44.4	63.6	68.6	41.4	36.3	35.3	40.4
80°	122.1	47.5	31.3	27.3	15.2	23.2	27.3	17.1	19.2	20.2	24.2
82.5°	61.5	13.1	5.0	1.0	0.0	0.0	8.1	4.0	8.1	10.0	15.2
85°	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	9.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7
2.5°	1837.9	1880.4	1920.6	1985.2	2051.8	2117.3	2184.0	2248.5	2271.7	2288.9	2327.2
5°	1626.2	1705.8	1798.7	1926.7	2063.9	2205.2	2348.4	2479.6	2539.0	2579.4	2670.2
7.5°	1407.2	1511.2	1644.3	1836.9	2051.8	2276.7	2501.7	2708.6	2804.4	2882.0	3020.3
10°	1190.3	1303.3	1471.8	1691.7	1982.2	2305.0	2615.7	2900.1	3024.3	3122.1	3309.7
12.5°	999.7	1105.6	1282.2	1525.2	1873.3	2282.8	2681.3	3023.2	3169.5	3279.5	3485.3
15°	865.5	940.1	1096.5	1358.8	1744.1	2211.2	2685.3	3081.8	3242.2	3357.2	3535.7
17.5°	790.9	816.1	918.0	1189.3	1600.9	2117.3	2648.0	3102.0	3273.4	3380.3	3504.5
20°	750.5	754.5	782.8	969.4	1417.3	2029.6	2612.7	3122.1	3302.7	3392.4	3429.8
22.5°	718.2	718.2	725.3	792.8	1180.3	1924.7	2601.6	3157.4	3343.0	3398.5	3321.8
25°	689.0	689.0	691.0	709.2	935.1	1764.3	2594.5	3211.9	3398.5	3413.7	3202.8
27.5°	658.8	659.7	659.7	669.8	753.6	1546.4	2564.2	3282.5	3465.1	3433.9	3088.8
30°	628.4	630.5	630.5	637.6	666.8	1291.2	2504.8	3367.2	3551.8	3460.1	2975.9
32.5°	598.2	600.2	600.2	606.3	627.4	1030.9	2430.1	3444.9	3639.6	3471.2	2870.9
35°	566.9	569.9	568.0	576.0	598.2	820.1	2335.3	3522.6	3734.4	3506.4	2819.5
37.5°	535.7	537.7	536.7	544.7	569.9	708.2	2225.3	3581.1	3863.5	3585.1	2881.0
40°	504.4	503.4	503.4	512.5	539.7	675.9	2087.1	3673.9	4049.2	3723.3	3149.3
42.5°	472.1	472.1	470.1	480.2	513.4	651.7	1955.0	3840.4	4319.6	3943.3	3625.5
45°	442.8	441.9	437.8	446.9	488.2	609.3	1908.5	4151.0	4719.0	4299.4	4201.5
47.5°	414.6	413.6	403.5	411.5	458.0	570.9	2082.1	4659.4	5272.8	4822.9	4741.1
50°	389.4	390.4	371.3	378.3	427.7	541.7	2458.4	5319.2	6008.1	5528.0	5252.6
52.5°	366.1	366.1	340.9	345.0	390.4	515.5	2816.5	6034.4	6978.6	6511.5	5848.8
55°	343.0	340.9	312.7	314.8	353.1	478.2	2869.9	6732.5	8302.1	7991.4	6663.8
57.5°	316.7	312.7	286.5	286.5	318.8	450.9	2487.6	7269.1	9944.3	10166.3	7839.1
60°	284.4	281.5	264.2	259.2	291.5	475.1	1755.2	7331.6	11003.6	13058.4	10089.6
62.5°	243.1	247.1	238.1	231.0	265.3	493.3	1040.1	6828.3	10747.3	13978.4	12785.0
65°	191.7	207.8	205.8	200.7	291.5	415.6	614.4	5861.9	9961.5	13235.9	12235.2
67.5°	163.4	174.6	171.5	171.5	305.7	315.7	386.3	4579.8	8880.1	12355.2	10928.9
70°	139.2	150.3	139.2	139.2	231.0	191.7	267.3	3197.8	7713.0	11380.8	10071.4
72.5°	115.0	126.1	114.0	105.9	184.6	143.3	195.7	1998.3	6605.4	10366.0	9484.3
75°	87.7	100.9	91.8	81.7	122.1	106.9	148.3	1161.1	5472.5	8869.0	8648.1
77.5°	55.5	72.7	68.6	57.5	89.8	77.7	106.9	691.0	4222.7	6930.2	7438.6
80°	34.3	37.3	38.3	36.3	51.5	52.5	72.7	393.4	2890.1	4829.9	5811.4
82.5°	22.2	22.2	17.1	19.2	25.2	30.2	41.4	148.3	1698.7	2940.5	4045.2
85°	16.1	14.1	9.1	9.1	12.1	15.2	16.1	45.4	689.0	1161.1	1581.8
87.5°	8.1	7.1	3.1	4.0	6.0	5.0	4.0	2.0	173.5	371.3	260.2
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: P967633  
 CATALOG NUMBER: NAV-SB5A-722-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7	2027.7
2.5°	2347.4	2378.6	2380.7	2380.7	2353.4	2352.5	2296.9	2290.9
5°	2764.0	2784.2	2789.2	2779.2	2724.7	2684.3	2576.3	2553.2
7.5°	3145.3	3185.7	3185.7	3161.4	3072.6	2989.9	2833.6	2775.1
10°	3449.9	3496.4	3486.2	3436.8	3324.9	3210.9	3021.2	2944.6
12.5°	3598.3	3645.6	3619.5	3562.9	3454.0	3333.9	3134.2	3047.4
15°	3595.2	3582.1	3554.9	3547.8	3495.4	3404.5	3218.0	3123.1
17.5°	3467.1	3356.2	3334.9	3405.6	3472.2	3449.9	3290.6	3201.8
20°	3264.3	3070.7	3051.5	3186.6	3376.4	3473.1	3358.2	3276.4
22.5°	3050.5	2841.7	2797.3	2946.6	3232.0	3480.2	3443.9	3362.2
25°	2847.8	2637.9	2593.6	2732.8	3071.7	3468.1	3536.8	3467.1
27.5°	2678.2	2475.5	2434.2	2573.4	2917.4	3433.9	3629.5	3580.1
30°	2547.1	2359.4	2329.2	2463.4	2784.2	3391.4	3747.5	3720.3
32.5°	2470.5	2333.3	2344.4	2454.4	2712.6	3345.1	3860.6	3873.7
35°	2546.1	2552.1	2649.0	2694.4	2779.2	3338.0	4013.9	4065.3
37.5°	2922.4	3132.2	3333.0	3295.6	3104.9	3419.7	4242.9	4338.7
40°	3562.9	3993.7	4319.6	4177.3	3697.1	3669.9	4572.7	4715.9
42.5°	4345.7	5076.1	5612.7	5231.4	4460.7	4107.7	5043.8	5226.4
45°	5171.9	6410.7	7256.0	6463.1	5274.9	4721.0	5757.0	5900.2
47.5°	6042.5	8032.7	9126.3	7828.9	6029.4	5419.1	6729.4	6762.7
50°	6994.7	9811.2	11032.8	9193.8	6757.7	6219.0	7917.7	7879.4
52.5°	7901.6	11640.1	12899.0	10564.8	7397.2	7211.6	9296.8	9218.0
55°	8767.1	13468.0	14776.3	11882.2	8000.4	8523.0	10935.0	10458.8
57.5°	9770.8	15111.3	16711.1	13205.7	8843.8	10225.8	12766.9	11179.1
60°	11254.7	16978.4	18899.2	15019.4	10447.7	12015.4	13423.6	11041.9
62.5°	13149.2	18695.4	20490.0	16796.9	12058.7	12352.3	12456.2	9984.7
65°	13517.4	19130.1	20579.7	17272.0	11850.9	10478.0	10169.3	8025.6
67.5°	12540.9	18344.3	19324.8	16387.3	10483.1	8097.3	7631.2	5822.5
70°	11445.4	16846.3	17137.8	14883.2	9220.1	5955.8	5153.8	3736.4
72.5°	10322.7	14847.9	14244.7	12925.2	8103.3	4336.7	3717.3	2656.1
75°	8989.0	12220.2	11220.5	10739.2	6709.2	3403.5	2689.4	1832.9
77.5°	7198.5	8601.7	8334.4	8324.3	5041.8	2486.5	1794.6	1149.0
80°	5078.1	5582.5	5446.3	6269.4	3382.4	1803.7	1080.4	639.6
82.5°	2458.4	3086.8	3168.5	3733.5	1645.3	1061.2	249.2	139.2
85°	962.4	1488.9	1255.9	1417.3	462.0	295.6	6.0	0.0
87.5°	107.9	172.5	158.4	125.0	56.5	12.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)