

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: P967646

Luminaire Tested: **NAV-SB5A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P967646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB5A-722-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

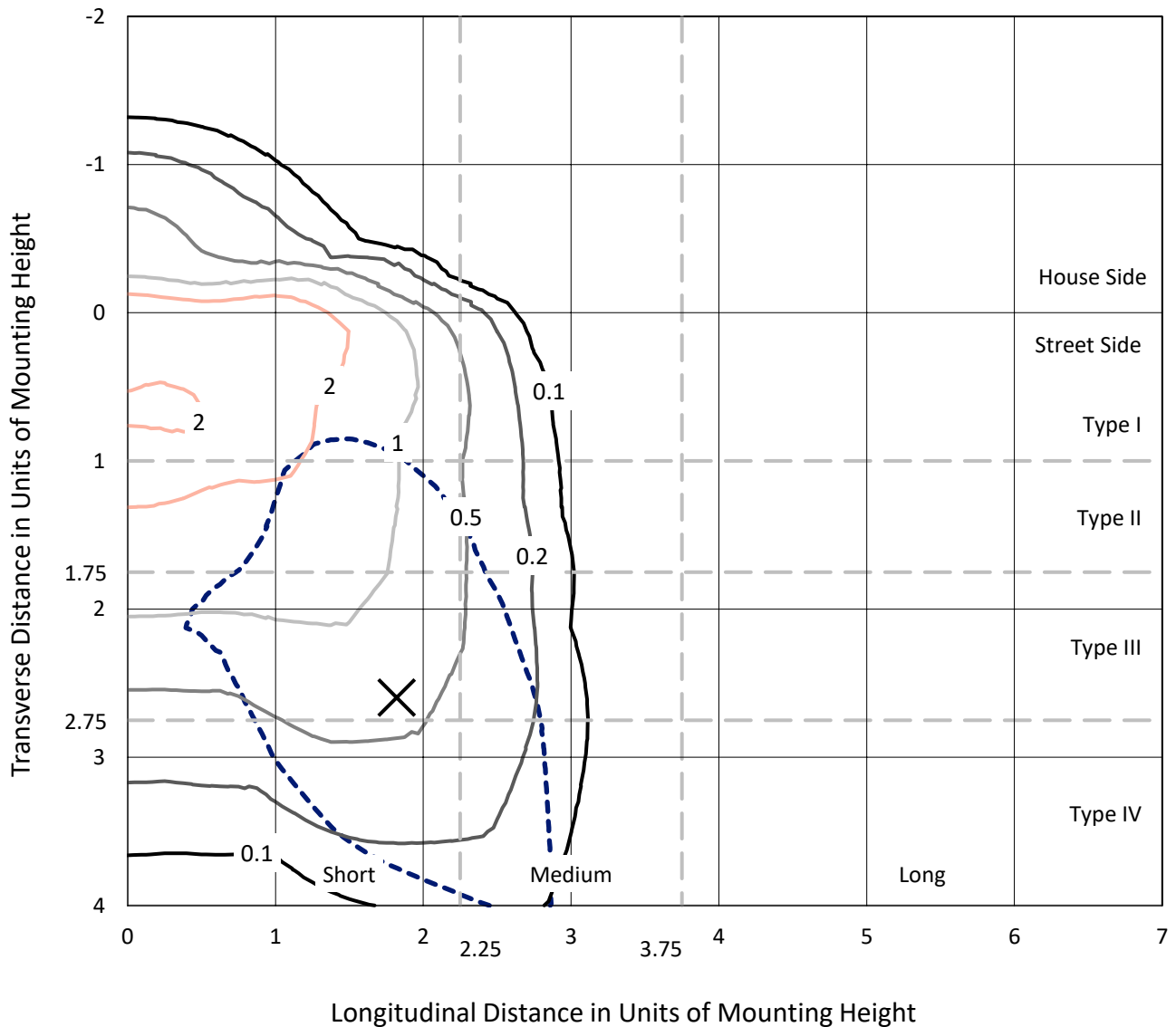
Lumens per Lamp: N/A  
Luminaire Lumens: 14527.3 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): 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

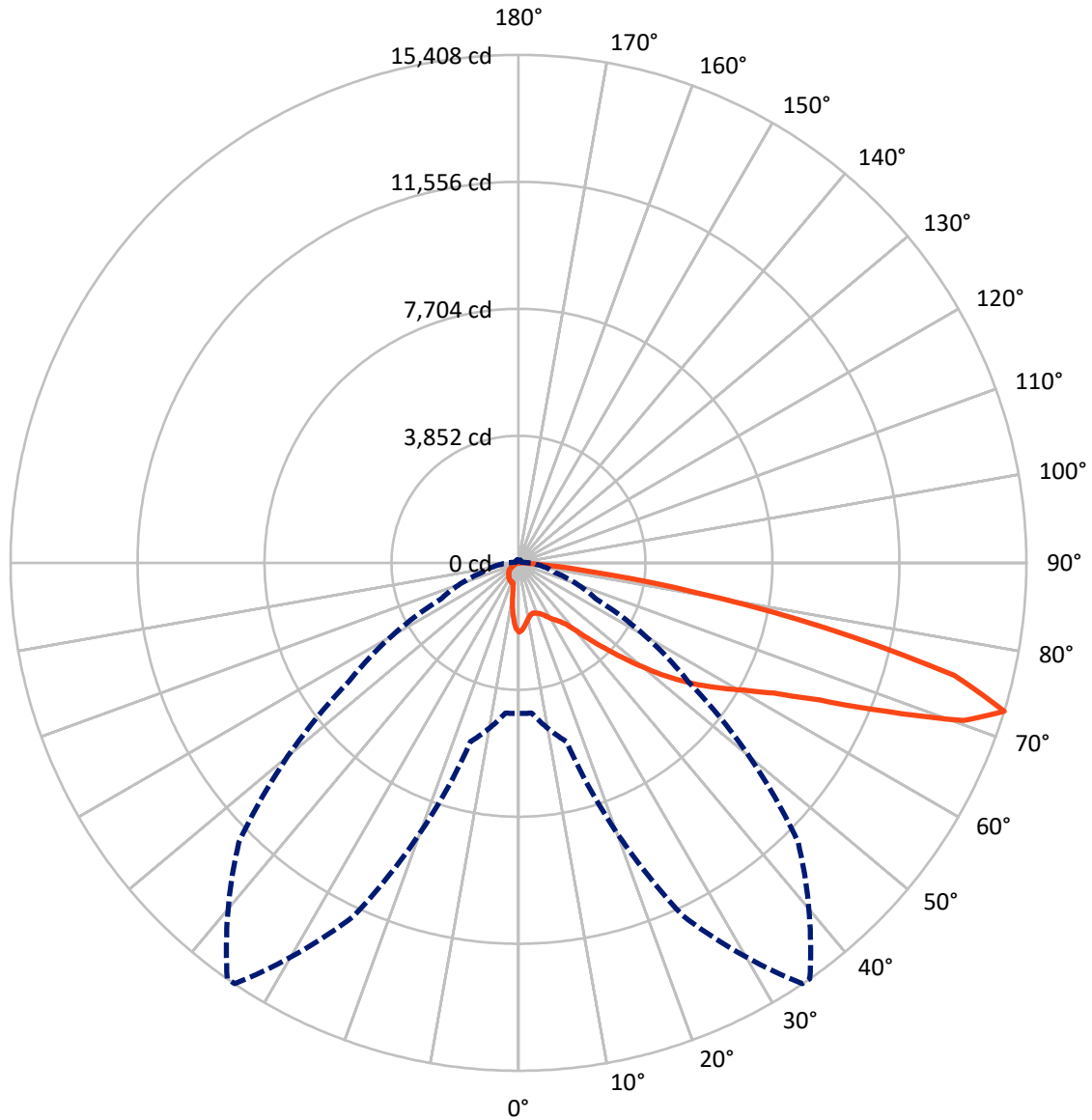
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P967646  
CATALOG NUMBER: NAV-SB5A-722-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: NAV-SB5A-722-U-T4FT-HSS

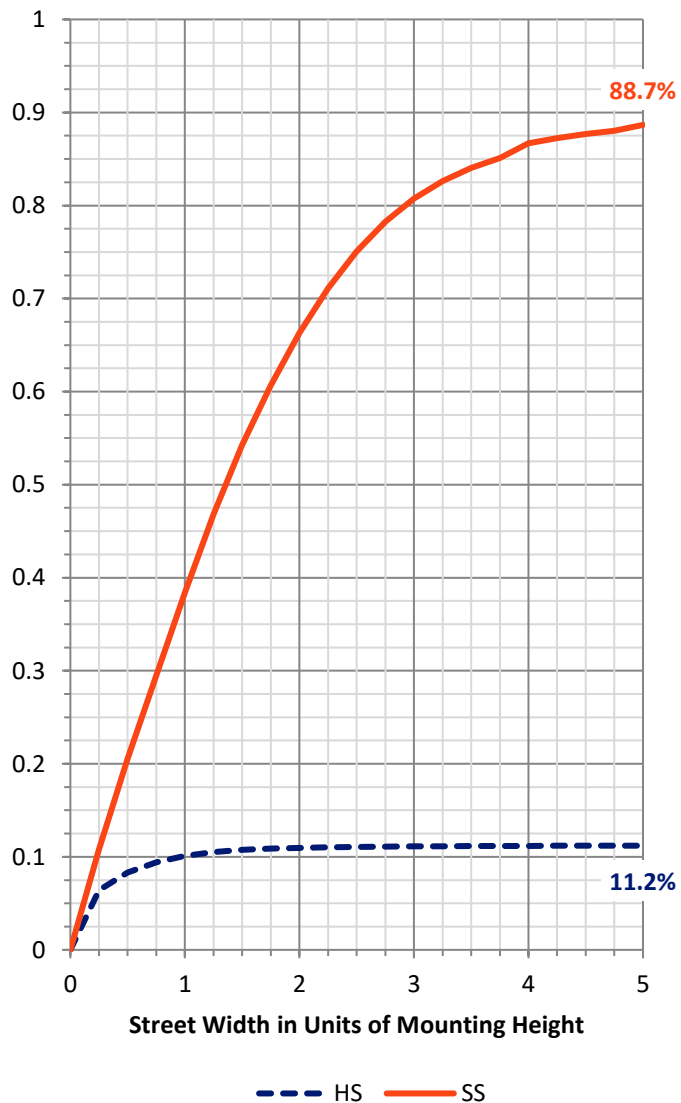
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1635.0	0.0	1635.0
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	12892.3	0.0	12892.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	14527.3	0.0	14527.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.0	1.2
10°-20°	404.7	2.8
20°-30°	657.5	4.5
30°-40°	1097.0	7.6
40°-50°	2075.6	14.3
50°-60°	3298.2	22.7
60°-70°	4080.1	28.1
70°-80°	2536.2	17.5
80°-90°	205.0	1.4
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°	14527.3	100.0
0°-180°	14527.3	100.0

**Coefficient of Utilization**



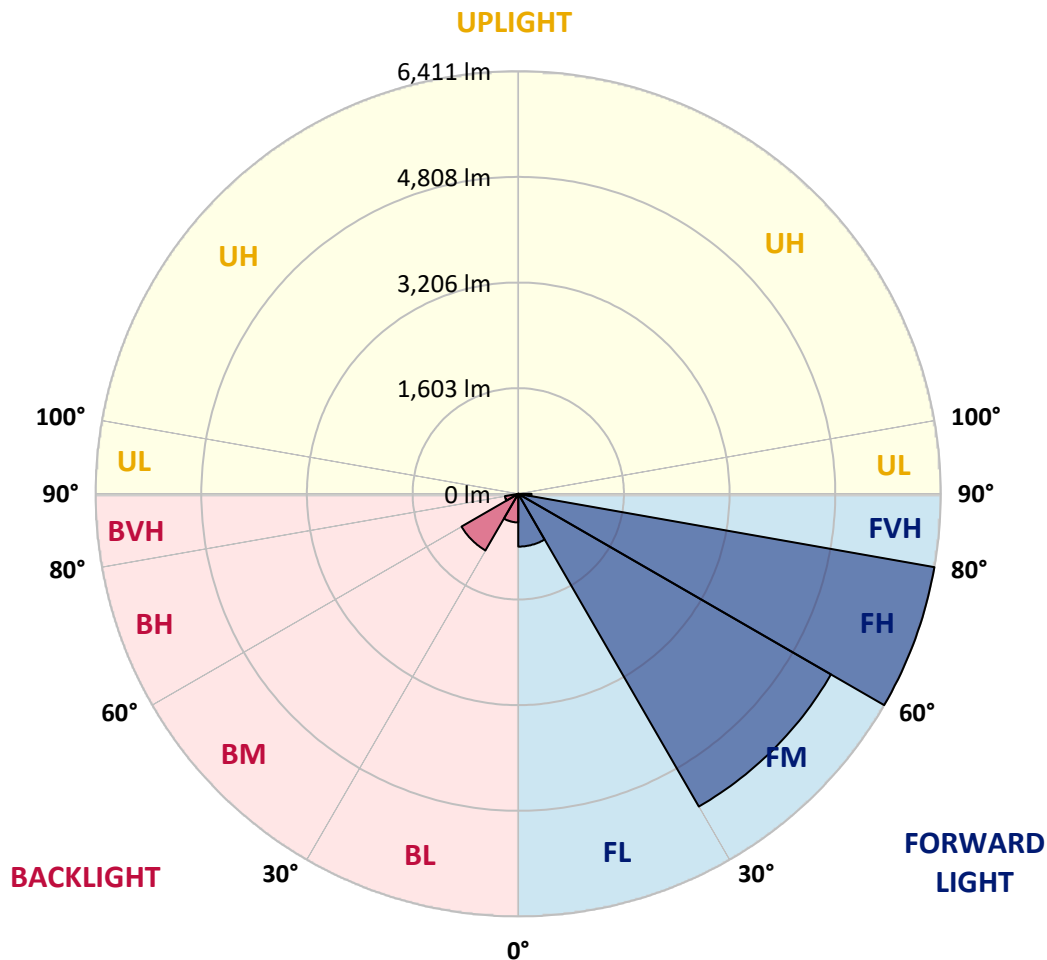
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 CATALOG NUMBER: NAV-SB5A-722-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.8	5.5			
FM (30°-60°)	5478.3	37.7			
FH (60°-80°)	6411.1	44.1			G3/7500
FVH (80°-90°)	202.2	1.4			G2/225
BL (0°-30°)	434.4	3.0	B1/500		
BM (30°-60°)	992.6	6.8	B1/1000		
BH (60°-80°)	205.2	1.4	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5
2.5°	2011.9	2028.9	2032.1	2037.4	2037.4	2043.7	2054.4	2069.3	2093.8	2106.6	2115.1
5°	1854.3	1867.0	1883.0	1895.8	1920.2	1923.5	1965.0	2005.4	2061.9	2104.4	2134.3
7.5°	1695.7	1710.6	1731.8	1762.7	1794.7	1804.2	1867.0	1935.2	2024.6	2104.4	2154.4
10°	1583.9	1585.0	1604.1	1635.0	1686.1	1697.8	1774.5	1871.3	1983.1	2091.6	2173.6
12.5°	1521.1	1528.6	1537.1	1560.5	1609.5	1616.9	1698.8	1812.8	1941.6	2084.2	2196.0
15°	1521.1	1526.4	1531.8	1543.4	1582.8	1589.3	1661.6	1775.5	1920.2	2087.4	2232.1
17.5°	1537.1	1545.6	1541.3	1555.1	1596.6	1600.9	1664.8	1764.8	1919.2	2107.6	2287.5
20°	1575.4	1581.8	1573.3	1581.8	1623.3	1631.8	1697.8	1785.1	1937.4	2142.8	2356.7
22.5°	1636.1	1639.3	1619.1	1625.4	1668.0	1678.6	1755.3	1842.5	1980.9	2199.1	2449.3
25°	1712.7	1719.1	1688.3	1695.7	1736.1	1748.9	1837.2	1928.8	2050.1	2276.8	2567.4
27.5°	1801.0	1804.2	1777.7	1776.5	1828.7	1846.8	1936.2	2035.2	2142.8	2374.8	2716.5
30°	1902.2	1911.7	1886.2	1882.0	1947.9	1962.9	2051.2	2166.1	2279.0	2521.7	2928.3
32.5°	1982.0	1989.4	1974.6	1985.2	2052.3	2063.9	2190.6	2351.4	2493.0	2730.3	3216.8
35°	2096.9	2101.2	2067.2	2086.3	2163.0	2192.8	2381.2	2611.1	2762.3	2992.2	3593.6
37.5°	2513.2	2513.2	2368.5	2273.7	2347.1	2373.7	2641.9	2937.9	3094.4	3343.4	4068.3
40°	3089.0	3079.5	2867.6	2673.9	2664.4	2716.5	3013.5	3349.8	3523.3	3765.0	4602.8
42.5°	3703.2	3688.4	3399.9	3208.2	3176.4	3194.4	3442.5	3857.6	4034.3	4279.1	5177.5
45°	4248.2	4244.0	3980.0	3722.4	3664.9	3722.4	3977.9	4451.6	4578.3	4835.8	5751.3
47.5°	4704.9	4704.9	4512.3	4344.1	4314.2	4348.4	4702.8	5110.4	5098.8	5428.7	6310.1
50°	5230.8	5226.5	5043.4	4971.0	5001.9	5049.8	5537.4	5804.5	5637.4	6011.0	6809.4
52.5°	5599.1	5624.6	5561.8	5550.1	5707.6	5790.6	6384.6	6483.6	6119.6	6563.5	7183.0
55°	5890.7	5920.5	5992.9	6074.9	6378.3	6486.8	7205.3	7127.6	6523.0	7042.5	7397.9
57.5°	6303.7	6261.1	6372.9	6534.7	7025.5	7156.3	8000.4	7735.4	6847.6	7430.9	7421.4
60°	6805.1	6811.4	6830.6	7035.0	7671.5	7839.7	8783.9	8310.2	7056.3	7669.5	7161.7
62.5°	7407.6	7417.1	7456.6	7770.5	8539.1	8697.6	9618.4	8780.7	7152.0	7602.3	6491.0
65°	7366.1	7406.4	7846.1	8920.2	9857.9	10014.5	10592.5	9110.7	7007.3	6989.3	5285.0
67.5°	6710.4	6776.4	7511.9	10293.3	11846.3	12020.9	11769.7	9175.6	6382.5	5435.2	3447.8
70°	5850.3	5873.7	6758.2	11528.1	14148.8	14325.5	12823.5	8461.4	4843.3	3031.5	1544.6
72.5°	4568.6	4574.0	5611.8	11814.5	15398.5	15408.0	11996.4	6281.4	2604.7	1164.5	536.5
75°	3263.6	3231.7	3758.6	9581.2	13547.3	13656.0	8993.6	2946.5	995.3	550.3	267.2
77.5°	1750.0	1785.1	2126.8	5682.1	9358.7	9543.9	4907.2	849.4	506.7	374.7	176.7
80°	540.8	570.5	871.8	2601.6	5301.0	5412.7	1819.2	377.9	353.4	267.2	116.0
82.5°	170.4	176.7	406.6	1093.2	2200.3	2251.3	527.0	213.9	241.6	176.7	68.2
85°	49.0	50.0	180.9	407.6	544.0	554.6	148.0	83.0	138.4	109.7	35.2
87.5°	5.3	17.0	68.2	68.2	47.9	46.8	16.0	18.1	39.4	13.8	6.4
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: P967646  
 CATALOG NUMBER: NAV-SB5A-722-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5
2.5°	2109.8	2110.8	2096.9	2073.6	2048.1	2026.7	2000.1	1978.9	1963.9	1959.7	1967.1
5°	2124.6	2117.2	2077.8	2006.5	1921.4	1847.9	1766.0	1701.0	1658.4	1640.3	1646.8
7.5°	2147.0	2125.7	2039.5	1899.0	1736.1	1591.3	1444.4	1330.6	1258.2	1222.0	1227.3
10°	2166.1	2123.6	1975.6	1743.6	1494.4	1275.2	1077.3	939.9	863.3	827.1	828.1
12.5°	2184.3	2122.6	1892.6	1559.4	1222.0	953.8	769.6	701.5	680.2	672.7	670.7
15°	2218.3	2125.7	1788.3	1348.7	950.6	720.7	653.5	652.5	656.8	654.7	653.5
17.5°	2265.1	2128.9	1670.1	1125.1	733.4	635.5	632.3	641.9	648.2	645.0	644.0
20°	2325.8	2141.7	1544.6	903.7	630.2	614.2	621.7	630.2	635.5	630.2	629.1
22.5°	2411.0	2164.1	1407.2	726.0	597.2	601.4	607.8	617.4	622.7	615.3	614.2
25°	2515.4	2199.1	1272.0	631.2	581.2	586.5	596.1	606.7	613.2	605.7	604.6
27.5°	2650.5	2255.6	1147.5	610.0	565.2	568.5	582.3	598.2	606.7	597.2	597.2
30°	2846.3	2348.2	1040.0	619.5	555.7	548.2	567.3	589.7	599.3	590.8	589.7
32.5°	3106.1	2479.2	974.0	634.4	551.3	524.8	542.8	571.6	587.5	582.3	582.3
35°	3446.7	2678.2	948.4	651.5	548.2	500.3	513.1	544.0	571.6	577.0	577.0
37.5°	3859.7	2955.0	955.9	658.9	538.6	480.1	486.5	513.1	549.3	566.3	570.5
40°	4329.2	3277.4	998.5	651.5	528.0	463.0	464.1	484.3	516.3	541.8	550.3
42.5°	4813.5	3654.3	1077.3	623.8	518.3	448.1	445.0	458.8	480.1	498.2	505.6
45°	5274.3	4041.8	1155.0	585.5	506.7	433.3	425.8	431.1	435.3	442.8	447.1
47.5°	5676.8	4314.2	1132.6	550.3	490.7	416.3	403.4	401.3	388.6	387.4	386.4
50°	5954.5	4373.9	1005.9	515.2	467.3	397.1	376.8	364.1	341.7	331.1	332.1
52.5°	6042.9	4138.6	821.7	480.1	429.0	371.5	342.8	322.6	294.9	285.3	284.2
55°	5925.8	3677.7	656.8	437.5	375.8	337.4	305.4	278.9	256.6	244.9	244.9
57.5°	5639.4	3091.2	519.5	387.4	319.3	299.1	267.2	240.6	221.4	209.7	207.6
60°	5164.8	2454.7	410.9	327.9	272.5	257.6	224.6	207.6	190.5	176.7	173.5
62.5°	4444.1	1752.1	322.6	259.7	227.8	210.7	191.6	178.9	158.6	139.4	136.2
65°	3468.0	1071.9	249.1	190.5	183.1	174.6	162.9	151.2	126.7	107.5	104.3
67.5°	2187.5	507.8	177.7	143.7	144.7	140.5	135.2	125.6	107.5	90.5	88.4
70°	963.3	245.9	117.1	109.7	107.5	107.5	111.7	108.5	91.5	75.5	72.4
72.5°	327.9	132.0	87.3	83.0	77.7	76.7	93.7	90.5	73.5	58.5	55.4
75°	171.4	88.4	63.9	59.7	46.8	56.4	74.5	70.2	52.2	38.3	35.2
77.5°	111.7	62.8	43.7	38.3	26.6	37.2	55.4	49.0	30.9	19.2	17.0
80°	70.2	41.5	25.5	18.1	12.8	20.2	29.8	21.3	11.7	4.3	3.2
82.5°	37.2	21.3	9.5	6.4	5.3	6.4	7.5	5.3	2.2	0.0	0.0
85°	14.9	7.5	3.2	2.2	1.0	0.0	2.2	1.0	0.0	0.0	0.0
87.5°	5.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)