

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: P970018

Luminaire Tested: **NAV-SB6A-835-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970018
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-SB6A-835-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19737.4 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 170.9
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



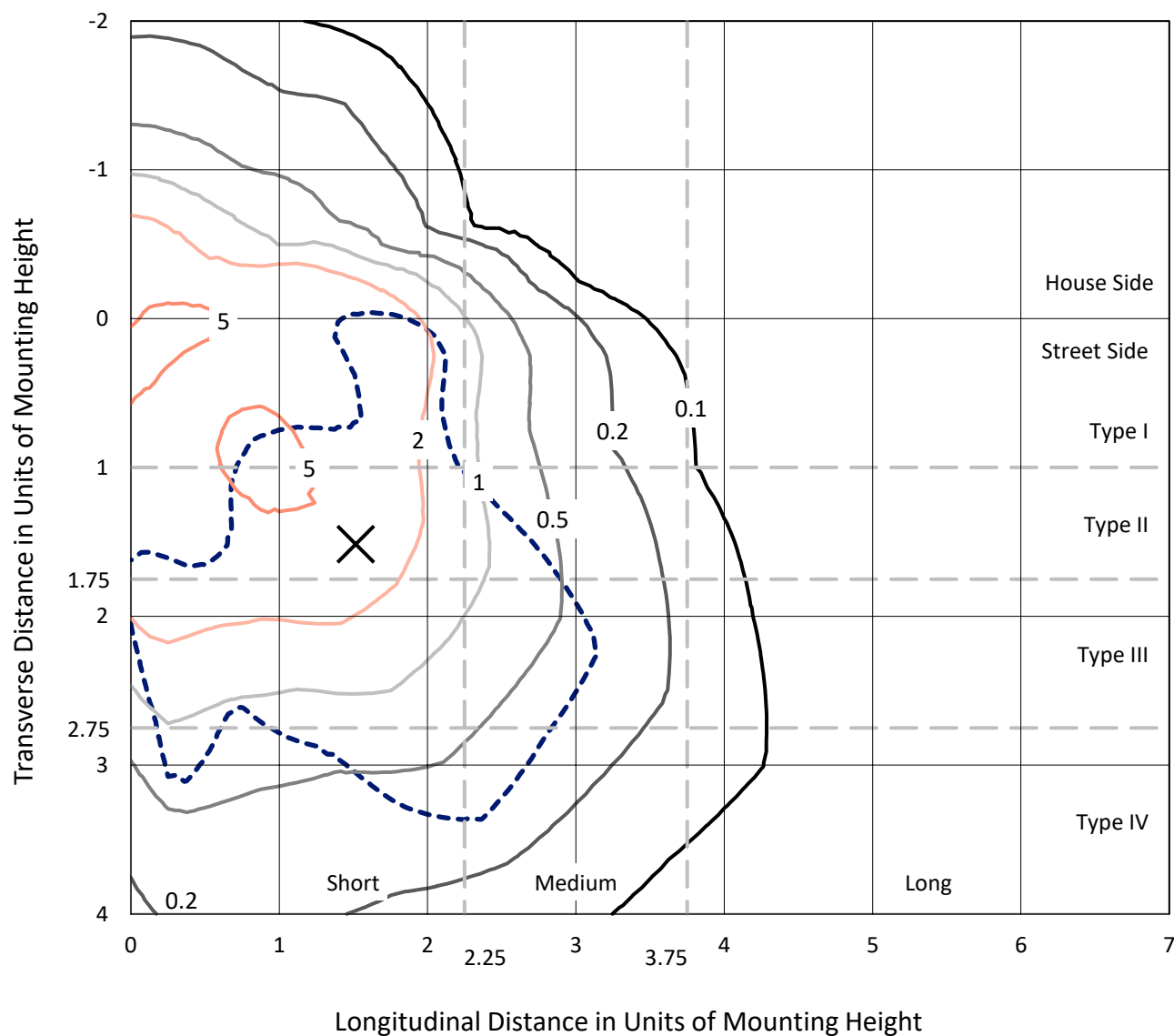
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

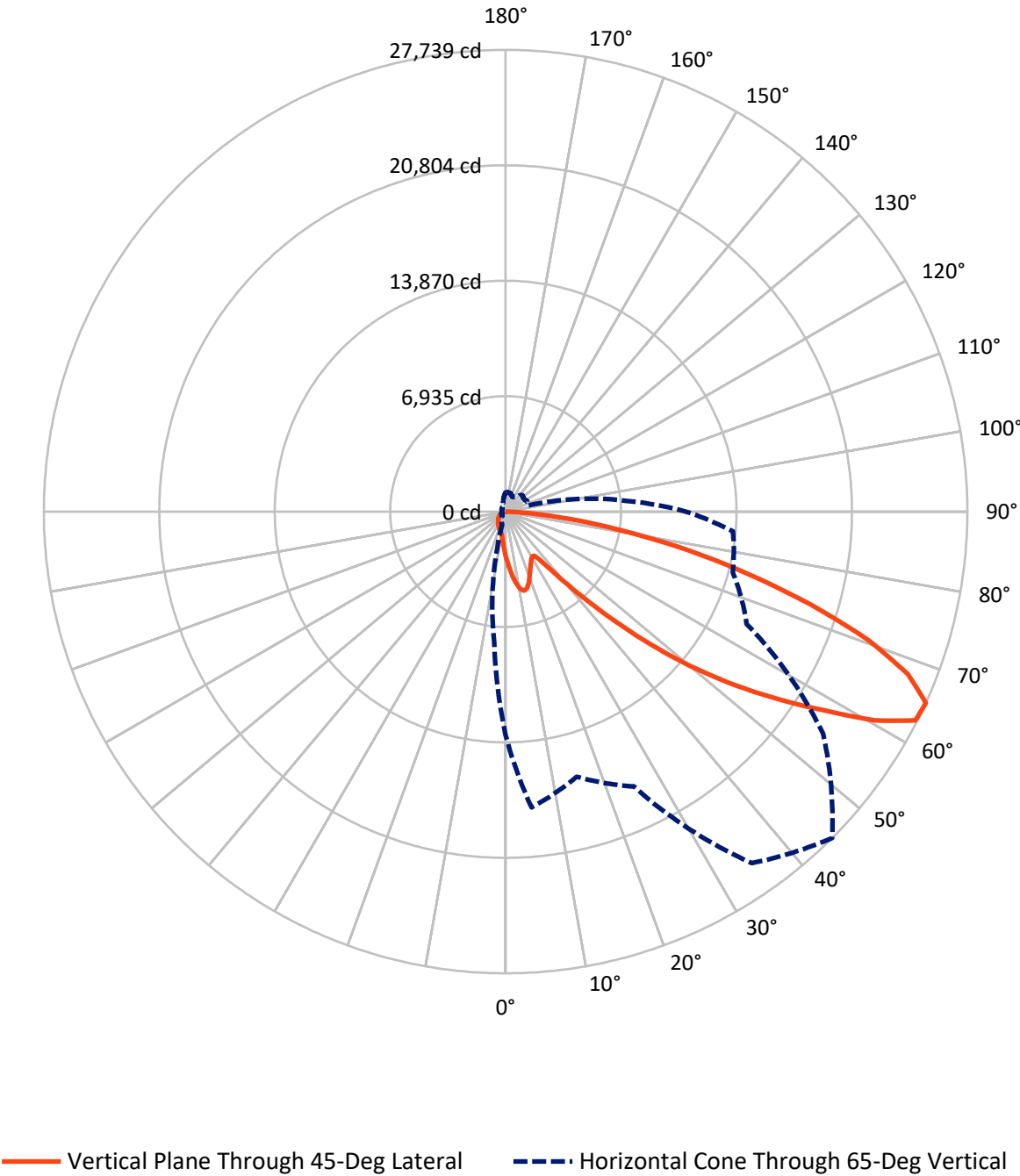


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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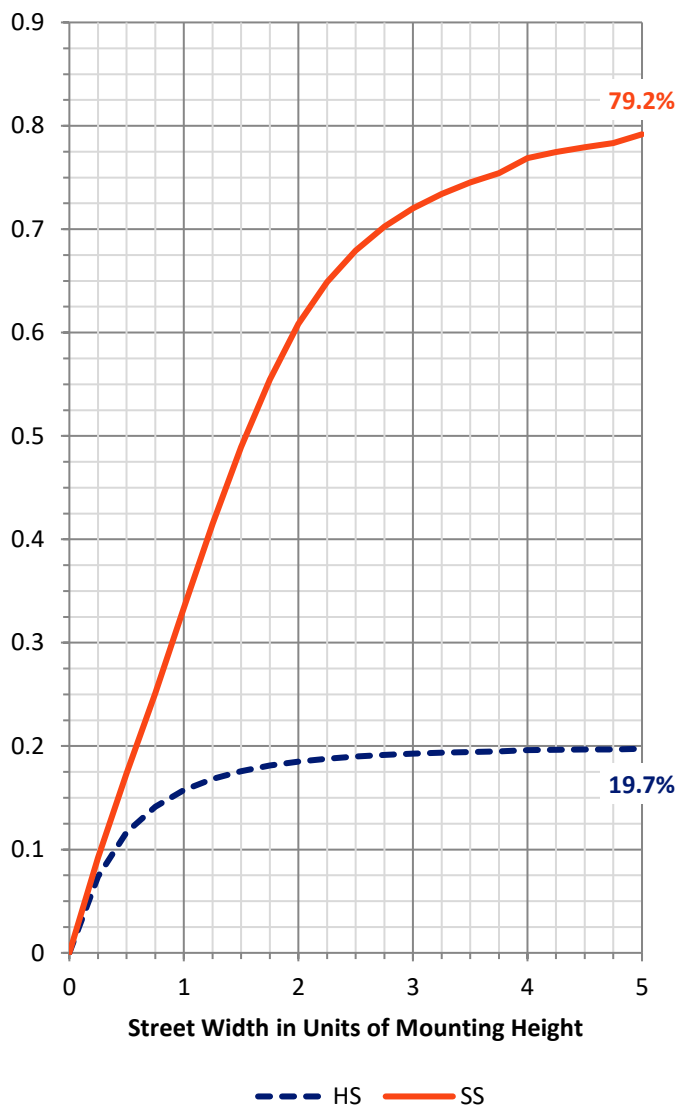
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3923.2	0.0	3923.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	15814.2	0.0	15814.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	19737.4	0.0	19737.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.1	1.4
10°-20°	806.6	4.1
20°-30°	1188.3	6.0
30°-40°	1526.6	7.7
40°-50°	2469.0	12.5
50°-60°	4329.6	21.9
60°-70°	5417.6	27.4
70°-80°	3165.8	16.0
80°-90°	564.8	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°	19737.4	100.0
0°-180°	19737.4	100.0

Coefficient of Utilization



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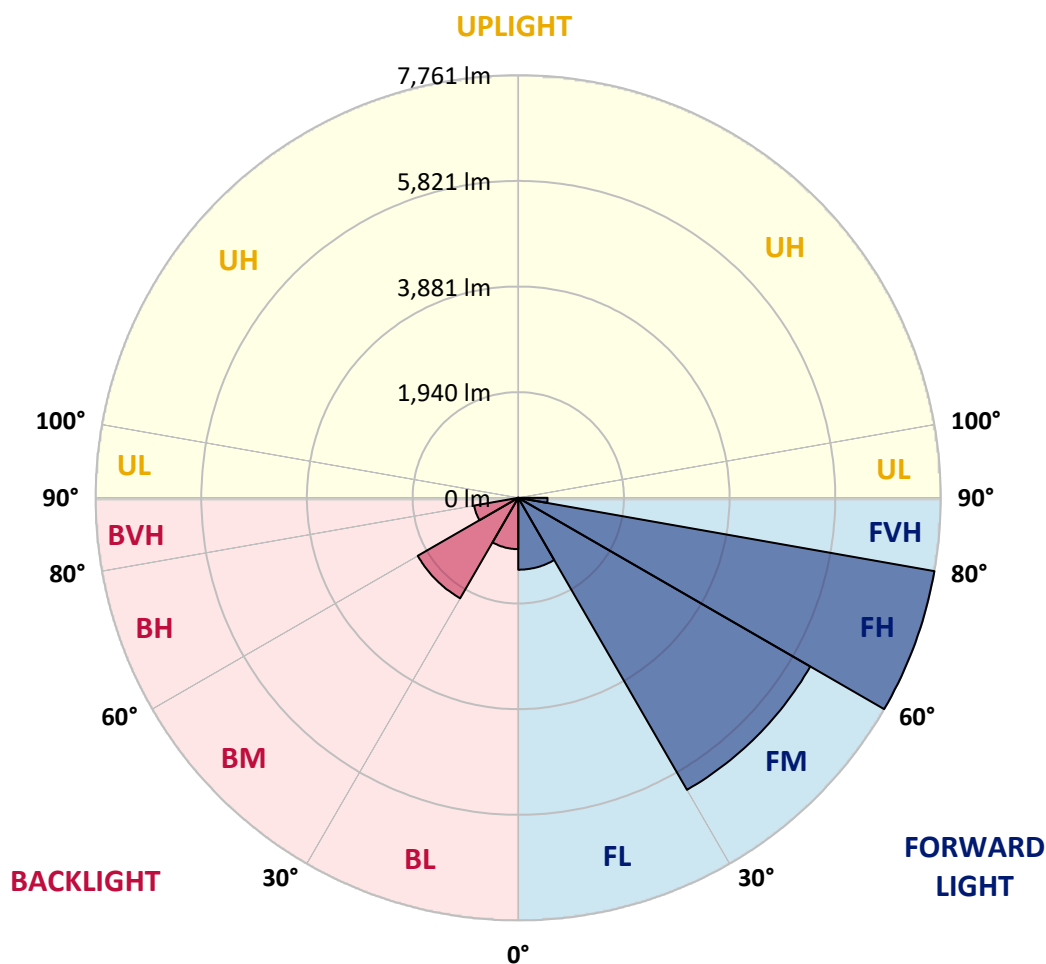
CATALOG NUMBER: NAV-SB6A-835-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1320.7	6.7			
FM	(30°-60°)	6193.8	31.4			
FH	(60°-80°)	7761.4	39.3			G4/12000
FVH	(80°-90°)	538.4	2.7			G4/750
BL	(0°-30°)	943.3	4.8	B2/1000		
BM	(30°-60°)	2131.4	10.8	B2/2500		
BH	(60°-80°)	822.0	4.2	B2/1000		G2/1000
BVH	(80°-90°)	26.5	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0
2.5°	3062.1	3085.1	3136.8	3164.1	3206.2	3208.9	3208.9	3172.2	3170.8	3096.0	3087.9
5°	3422.4	3476.8	3599.1	3725.6	3752.7	3759.6	3746.0	3672.6	3618.1	3472.7	3441.4
7.5°	3780.0	3884.6	4071.0	4239.5	4293.9	4293.9	4261.3	4141.6	4030.2	3819.4	3740.5
10°	4076.4	4208.2	4461.2	4650.2	4712.7	4699.1	4632.5	4481.6	4328.0	4072.3	3969.0
12.5°	4272.2	4420.4	4697.8	4850.1	4914.0	4878.6	4802.4	4655.7	4493.8	4224.6	4107.7
15°	4370.1	4525.1	4765.7	4846.0	4828.3	4791.6	4782.0	4711.4	4589.0	4337.5	4209.7
17.5°	4412.2	4556.3	4723.6	4673.3	4523.7	4495.1	4590.4	4680.0	4650.2	4435.4	4315.7
20°	4451.7	4572.6	4623.0	4400.0	4139.0	4113.1	4295.3	4550.9	4681.5	4526.4	4416.3
22.5°	4506.0	4580.8	4477.5	4111.7	3830.3	3770.5	3971.7	4356.5	4691.0	4642.0	4531.8
25°	4580.8	4601.2	4317.1	3838.4	3555.6	3495.8	3683.4	4140.3	4674.6	4767.1	4673.3
27.5°	4670.6	4628.4	4163.4	3610.0	3336.7	3280.9	3468.6	3932.2	4628.4	4892.2	4825.6
30°	4787.5	4663.8	4011.1	3433.2	3180.4	3139.6	3320.4	3752.7	4571.3	5051.3	5014.6
32.5°	4905.8	4678.7	3869.7	3329.9	3145.0	3160.0	3308.2	3656.3	4508.8	5203.6	5221.2
35°	5033.6	4726.3	3800.4	3431.9	3440.0	3570.6	3631.8	3746.0	4499.2	5410.3	5479.5
37.5°	5207.6	4832.4	3883.3	3939.1	4221.9	4492.5	4442.1	4185.2	4609.4	5718.9	5848.0
40°	5457.8	5018.6	4244.9	4802.4	5383.1	5822.2	5630.5	4983.3	4946.5	6163.5	6356.6
42.5°	5822.2	5315.0	4886.8	5857.6	6842.0	7565.4	7051.4	6012.5	5536.7	6798.5	7044.6
45°	6360.6	5795.0	5663.1	6971.2	8640.9	9780.3	8711.6	7109.9	6363.4	7759.8	7952.9
47.5°	7107.1	6500.8	6390.6	8144.6	10827.3	12301.2	10552.7	8126.9	7304.4	9070.5	9115.4
50°	8098.4	7451.1	7080.0	9428.2	13224.4	14871.0	12392.4	9108.7	8382.6	10672.3	10620.6
52.5°	9406.4	8776.9	7883.6	10650.6	15689.6	17386.5	14240.1	9970.7	9720.5	12531.0	12424.9
55°	11190.3	10771.5	8982.2	11817.1	18153.4	19916.9	16015.9	10783.8	11488.1	14739.2	14097.3
57.5°	13403.9	13703.0	10566.2	13170.0	20368.3	22524.8	17799.8	11920.5	13783.3	17208.4	15068.2
60°	14831.6	17601.3	13599.7	15170.2	22885.1	25474.0	20244.6	14082.4	16195.4	18093.5	14883.3
62.5°	14486.2	18841.3	17232.8	17723.7	25199.3	27618.2	22640.4	16253.8	16649.5	16789.6	13458.4
65°	13427.1	17840.6	16491.8	18220.0	25785.4	27739.3	23280.8	15973.8	14123.2	13707.1	10817.7
67.5°	11969.4	16653.6	14731.0	16903.8	24726.2	26047.8	22088.3	14130.0	10914.3	10286.2	7848.2
70°	10396.3	15340.1	13575.2	15427.2	22707.0	23099.9	20061.0	12427.7	8027.7	6946.7	5036.3
72.5°	8903.4	13972.3	12783.9	13913.9	20013.4	19200.3	17421.8	10922.5	5845.4	5010.5	3580.1
75°	7376.4	11954.5	11656.7	12116.3	16471.4	15124.0	14475.4	9043.4	4587.6	3624.9	2470.6
77.5°	5691.7	9341.1	10026.4	9702.9	11594.2	11233.9	11220.3	6795.7	3351.6	2418.9	1548.7
80°	3895.5	6510.3	7833.3	6844.7	7524.6	7341.0	8450.5	4559.1	2431.1	1456.2	862.0
82.5°	2289.7	3963.6	5452.4	3313.6	4160.7	4270.9	5032.2	2217.7	1430.4	335.9	187.7
85°	928.6	1565.0	2132.0	1297.1	2007.0	1692.8	1910.4	622.8	398.4	8.2	0.0
87.5°	233.9	500.4	350.8	145.4	232.5	213.5	168.6	76.2	16.3	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0
2.5°	3034.8	3003.6	2926.1	2848.6	2786.1	2701.7	2645.9	2579.3	2515.5	2458.4	2447.5
5°	3355.7	3252.4	3111.0	2981.8	2849.9	2722.1	2595.7	2462.5	2340.1	2265.2	2217.7
7.5°	3616.8	3434.6	3247.0	3082.5	2923.4	2773.8	2606.6	2444.7	2253.1	2151.1	2058.6
10°	3811.3	3571.9	3325.8	3136.8	2976.4	2830.9	2689.5	2526.3	2295.2	2167.4	2028.7
12.5°	3939.1	3654.8	3366.6	3150.4	2971.0	2858.1	2795.6	2731.6	2501.8	2352.3	2151.1
15°	4027.4	3713.4	3395.2	3119.2	2898.9	2816.0	2878.5	2951.9	2805.0	2632.4	2370.0
17.5°	4124.0	3789.5	3407.4	3034.8	2758.8	2723.5	2885.3	3055.2	3048.5	2877.2	2620.1
20°	4226.0	3856.2	3399.2	2898.9	2588.8	2620.1	2826.8	3024.0	3106.9	3014.4	2786.1
22.5°	4330.6	3920.0	3367.9	2722.1	2429.8	2527.6	2734.4	2907.0	3004.9	2976.4	2802.4
25°	4462.5	4009.8	3321.7	2531.8	2297.8	2433.9	2627.0	2767.0	2834.9	2833.6	2714.0
27.5°	4620.3	4129.4	3297.3	2378.1	2204.1	2327.8	2499.2	2624.2	2671.8	2671.8	2576.6
30°	4803.9	4270.9	3270.1	2277.4	2149.7	2217.7	2350.9	2473.3	2520.9	2520.9	2440.6
32.5°	5007.7	4406.8	3204.8	2216.4	2108.9	2110.3	2194.5	2306.0	2363.1	2371.3	2314.2
35°	5252.5	4552.2	3062.1	2167.4	2061.3	2005.5	2046.3	2138.8	2206.8	2224.5	2189.1
37.5°	5573.4	4730.4	2858.1	2095.3	1987.9	1895.4	1905.0	1975.7	2050.4	2077.6	2054.5
40°	6004.4	4939.8	2645.9	1992.0	1884.6	1774.4	1770.4	1822.0	1895.4	1925.4	1913.1
42.5°	6574.1	5191.3	2443.4	1892.7	1759.4	1646.6	1639.8	1680.6	1744.4	1775.8	1770.4
45°	7302.9	5499.9	2269.4	1815.2	1637.1	1525.6	1522.8	1556.9	1612.6	1645.2	1638.5
47.5°	8315.9	5808.7	2151.1	1774.4	1540.6	1426.3	1431.7	1461.6	1512.0	1535.1	1525.6
50°	9636.2	5902.5	2091.2	1774.4	1488.9	1337.9	1365.1	1389.6	1427.7	1441.3	1429.1
52.5°	10903.4	5592.4	2036.9	1785.2	1495.7	1263.2	1321.6	1339.3	1372.0	1377.4	1359.7
55°	11524.8	4807.9	1962.1	1788.0	1537.8	1199.2	1286.3	1318.9	1331.2	1329.8	1299.9
57.5°	11311.4	3887.4	1835.6	1777.1	1566.4	1158.5	1242.8	1305.3	1313.4	1301.2	1245.5
60°	10562.1	2862.2	1739.0	1696.9	1555.5	1146.3	1176.2	1275.4	1287.6	1271.3	1180.2
62.5°	9305.8	1986.6	1664.3	1520.2	1507.9	1142.2	1071.4	1210.1	1240.0	1217.0	1083.7
65°	7326.1	1403.2	1433.2	1332.5	1404.6	1120.4	962.7	1131.3	1172.1	1136.7	949.0
67.5°	4957.5	1013.0	1161.2	1207.4	1237.3	1071.4	883.8	1041.5	1095.9	1049.7	792.7
70°	2677.3	711.1	766.9	1017.0	1051.0	987.2	813.1	950.4	1013.0	962.7	645.9
72.5°	1581.4	511.3	537.1	817.1	875.7	868.9	734.2	844.4	920.6	860.7	524.8
75°	871.6	345.3	383.5	592.9	711.1	670.3	630.9	715.2	792.7	734.2	405.2
77.5°	390.2	206.6	266.5	388.9	558.8	459.6	488.1	557.5	629.6	568.4	270.6
80°	150.9	115.6	176.7	212.1	406.5	254.3	314.1	410.6	462.3	413.4	164.5
82.5°	19.1	51.7	76.2	82.9	236.6	134.6	182.2	258.3	254.3	220.3	82.9
85°	0.0	9.5	10.9	5.4	102.0	49.0	59.9	84.3	78.8	59.9	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	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

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0
2.5°	2380.9	2331.9	2307.4	2287.0	2306.0	2316.9	2316.9	2363.1	2390.4	2401.3	2477.4
5°	2098.0	2007.0	1945.8	1909.1	1921.3	1934.9	1949.9	2008.3	2047.7	2073.6	2191.9
7.5°	1875.0	1736.4	1650.7	1605.8	1612.6	1622.2	1634.4	1691.5	1730.9	1764.8	1896.8
10°	1764.8	1569.1	1456.2	1401.9	1392.4	1386.9	1382.8	1416.9	1446.7	1473.9	1604.4
12.5°	1770.4	1497.0	1359.7	1293.0	1264.5	1231.8	1206.0	1211.4	1230.5	1264.5	1347.5
15°	1839.7	1473.9	1309.4	1226.4	1178.9	1140.8	1109.6	1102.7	1109.6	1115.0	1166.7
17.5°	1933.5	1471.2	1265.9	1162.6	1113.6	1082.3	1053.8	1044.3	1045.6	1052.4	1066.0
20°	2008.3	1463.1	1217.0	1101.4	1057.8	1030.6	1002.1	992.6	995.3	996.7	1011.6
22.5°	2047.7	1450.8	1162.6	1040.2	1003.5	976.3	950.4	949.0	949.0	957.2	968.1
25°	2047.7	1425.0	1113.6	981.7	949.0	924.6	893.3	898.7	901.5	912.4	928.6
27.5°	1998.7	1376.1	1074.2	931.4	897.4	872.9	844.4	851.2	855.3	867.5	887.9
30°	1936.2	1317.5	1029.3	883.8	844.4	826.7	802.3	804.9	810.4	824.0	847.1
32.5°	1869.6	1248.2	992.6	836.2	796.8	783.2	756.0	760.0	765.5	780.4	806.3
35°	1796.2	1166.7	949.0	792.7	753.3	742.4	711.1	713.8	722.0	738.3	764.1
37.5°	1718.6	1100.0	905.6	750.5	709.8	698.8	666.2	669.0	678.4	697.5	722.0
40°	1642.6	1034.7	859.4	705.7	664.9	655.4	620.0	622.8	633.7	654.1	679.9
42.5°	1559.5	984.4	799.5	659.5	615.9	606.4	573.8	577.9	590.1	610.5	636.3
45°	1460.3	951.8	732.9	615.9	567.0	557.5	527.6	535.8	549.3	569.7	596.9
47.5°	1358.3	938.2	677.1	569.7	516.7	508.5	484.0	497.6	512.6	528.9	558.8
50°	1260.4	920.6	620.0	526.2	473.1	465.0	448.7	466.4	481.3	496.3	524.8
52.5°	1148.9	882.4	568.4	488.1	436.4	433.8	425.6	441.9	455.5	469.1	493.5
55°	1033.4	821.2	523.5	454.2	405.2	408.0	403.8	417.4	428.3	440.5	462.3
57.5°	932.7	743.7	488.1	417.4	378.0	386.1	380.7	387.6	394.3	409.3	426.9
60°	830.8	651.3	448.7	373.9	350.8	360.3	345.3	344.0	346.8	350.8	383.5
62.5°	693.4	554.7	399.7	335.9	320.9	324.9	296.4	274.7	274.7	278.7	327.7
65°	557.5	465.0	345.3	292.3	280.1	277.4	236.6	206.6	204.0	216.2	258.3
67.5°	458.2	386.1	291.0	243.4	235.2	237.9	208.1	178.1	175.4	189.0	220.3
70°	379.4	311.4	232.5	187.7	195.8	208.1	178.1	149.5	145.4	157.7	187.7
72.5°	301.9	243.4	178.1	138.7	161.8	176.7	145.4	118.3	115.6	126.5	155.0
75°	221.6	174.0	121.1	100.7	125.0	138.7	106.1	84.3	80.3	89.8	118.3
77.5°	137.4	97.9	76.2	59.9	85.7	92.5	55.8	49.0	47.6	54.4	74.8
80°	63.9	42.1	36.7	20.4	31.3	36.7	23.2	25.8	27.2	32.6	46.2
82.5°	17.6	6.8	1.3	0.0	0.0	10.9	5.4	10.9	13.6	20.4	29.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	6.8	12.2	21.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.9
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: P970018

CATALOG NUMBER: NAV-SB6A-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0	2733.0
2.5°	2534.5	2588.8	2675.9	2765.7	2854.0	2943.8	3030.8	3062.1
5°	2299.3	2424.3	2597.0	2782.0	2972.3	3165.4	3342.1	3422.4
7.5°	2036.9	2216.4	2476.0	2765.7	3068.8	3372.0	3650.8	3780.0
10°	1756.7	1983.8	2280.2	2671.8	3106.9	3525.7	3909.1	4076.4
12.5°	1490.2	1728.2	2055.8	2525.0	3077.0	3614.0	4075.0	4272.2
15°	1267.2	1477.9	1831.5	2350.9	2980.5	3619.5	4153.9	4370.1
17.5°	1100.0	1237.3	1603.1	2157.8	2854.0	3569.3	4181.1	4412.2
20°	1017.0	1055.1	1306.7	1910.4	2735.7	3521.6	4208.2	4451.7
22.5°	968.1	977.6	1068.8	1590.8	2594.3	3506.6	4255.9	4506.0
25°	928.6	931.4	955.9	1260.4	2378.1	3497.2	4329.3	4580.8
27.5°	889.3	889.3	902.8	1015.7	2084.4	3456.4	4424.5	4670.6
30°	849.8	849.8	859.4	898.7	1740.4	3376.1	4538.7	4787.5
32.5°	809.0	809.0	817.1	845.7	1389.6	3275.5	4643.4	4905.8
35°	768.2	765.5	776.4	806.3	1105.5	3147.7	4748.1	5033.6
37.5°	724.7	723.3	734.2	768.2	954.5	2999.5	4826.9	5207.6
40°	678.4	678.4	690.7	727.4	911.0	2813.2	4952.0	5457.8
42.5°	636.3	633.7	647.2	692.1	878.3	2635.1	5176.4	5822.2
45°	595.5	590.1	602.4	658.0	821.2	2572.5	5595.2	6360.6
47.5°	557.5	543.9	554.7	617.3	769.6	2806.4	6280.5	7107.1
50°	526.2	500.4	509.9	576.6	730.2	3313.6	7169.7	8098.4
52.5°	493.5	459.6	465.0	526.2	694.8	3796.3	8133.7	9406.4
55°	459.6	421.5	424.2	475.9	644.5	3868.3	9074.6	11190.3
57.5°	421.5	386.1	386.1	429.7	607.8	3353.0	9798.0	13403.9
60°	379.4	356.3	349.4	393.0	640.4	2365.9	9882.3	14831.6
62.5°	333.1	320.9	311.4	357.6	664.9	1401.9	9203.8	14486.2
65°	280.1	277.4	270.6	393.0	560.2	828.1	7901.2	13427.1
67.5°	235.2	231.1	231.1	411.9	425.6	520.8	6173.1	11969.4
70°	202.6	187.7	187.7	311.4	258.3	360.3	4310.2	10396.3
72.5°	169.9	153.6	142.8	248.9	193.1	263.7	2693.6	8903.4
75°	136.0	123.7	110.1	164.5	144.1	199.9	1565.0	7376.4
77.5°	97.9	92.5	77.5	121.1	104.7	144.1	931.4	5691.7
80°	50.3	51.7	49.0	69.4	70.7	97.9	530.2	3895.5
82.5°	29.9	23.2	25.8	34.0	40.8	55.8	199.9	2289.7
85°	19.1	12.2	12.2	16.3	20.4	21.7	61.2	928.6
87.5°	9.5	4.1	5.4	8.2	6.8	5.4	2.8	233.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)