

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: P969894

Luminaire Tested: **NAV-SB6A-750-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969894
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-750-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 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: 22513.1 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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



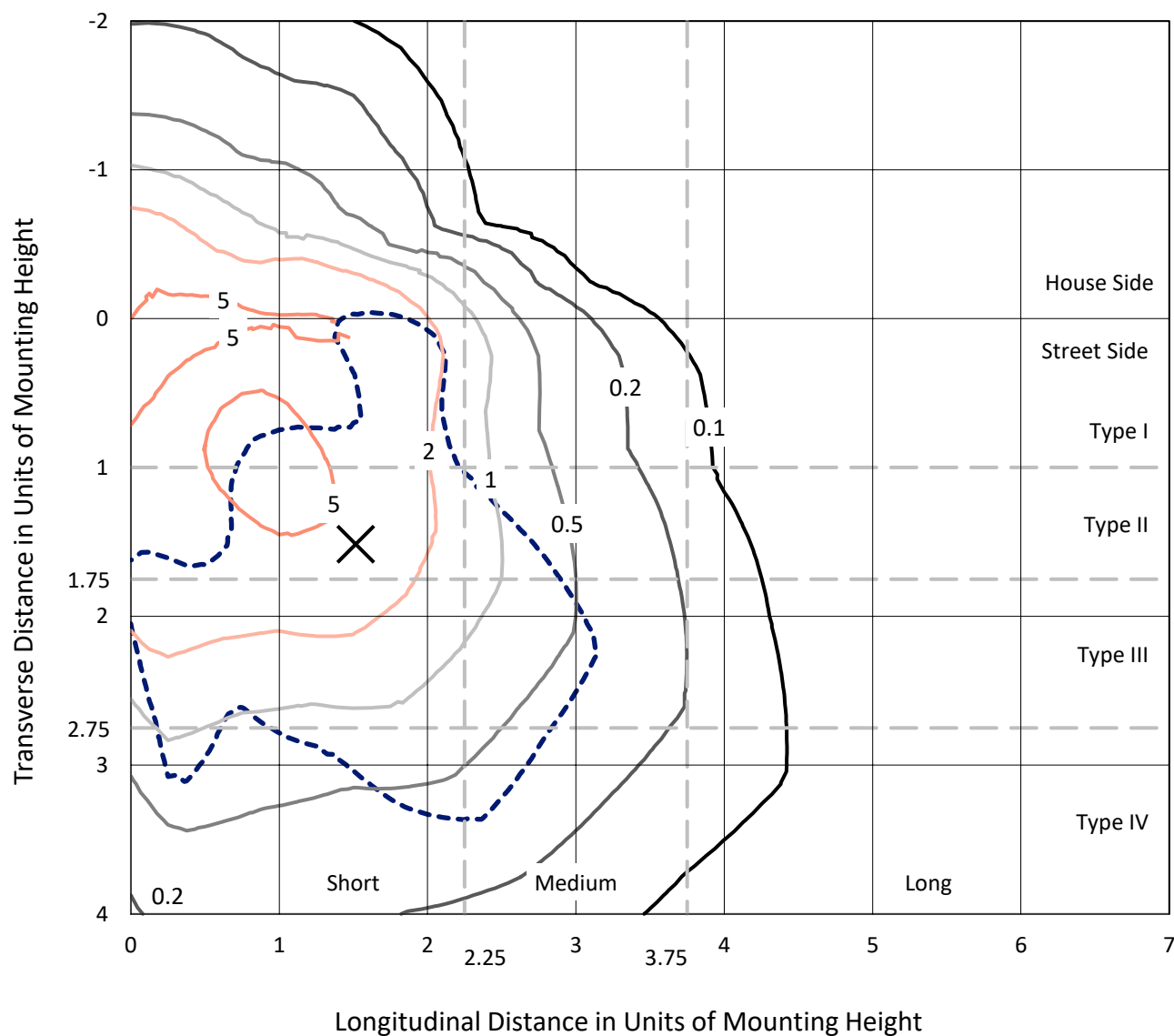
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

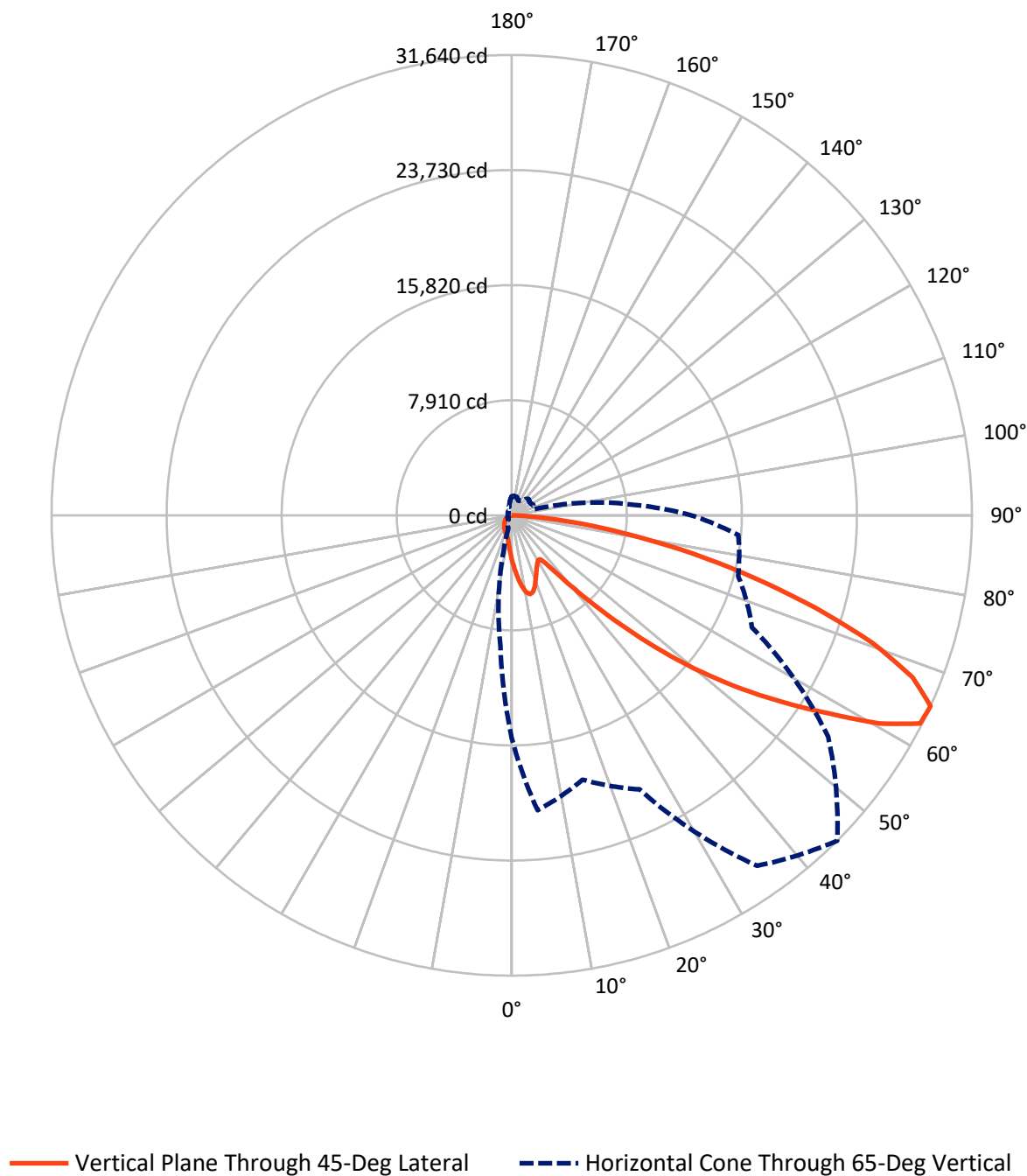


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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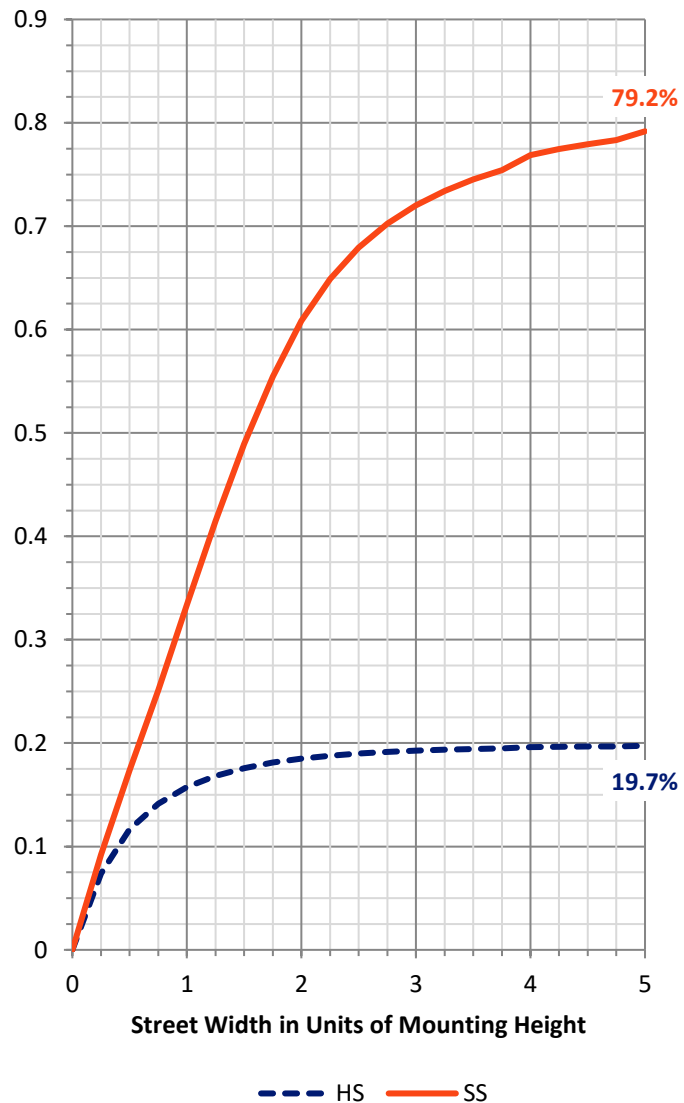
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4474.9	0.0	4474.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	18038.2	0.0	18038.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	22513.1	0.0	22513.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	1.4
10°-20°	920.0	4.1
20°-30°	1355.4	6.0
30°-40°	1741.3	7.7
40°-50°	2816.2	12.5
50°-60°	4938.5	21.9
60°-70°	6179.4	27.4
70°-80°	3611.0	16.0
80°-90°	644.3	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°	22513.1	100.0
0°-180°	22513.1	100.0

Coefficient of Utilization



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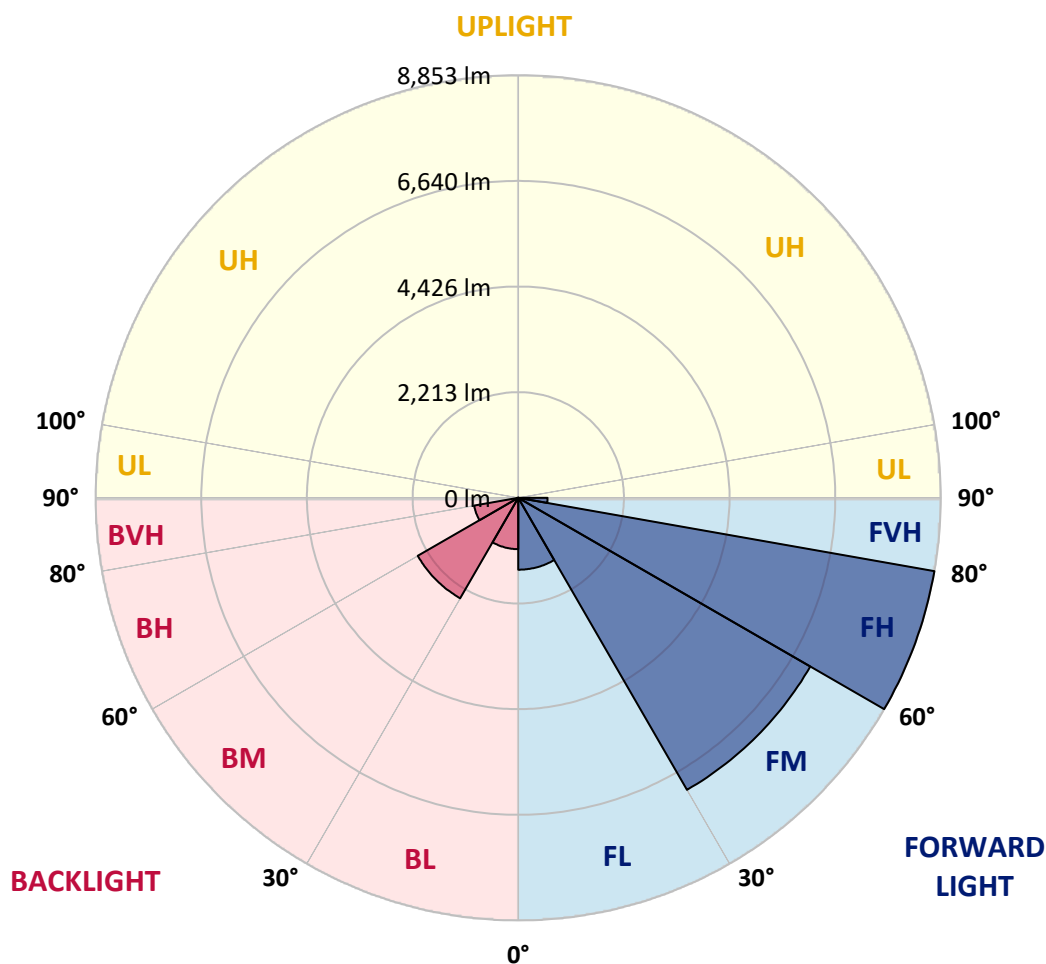
CATALOG NUMBER: NAV-SB6A-750-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1506.4	6.7			
FM	(30°-60°)	7064.9	31.4			
FH	(60°-80°)	8852.9	39.3			G4/12000
FVH	(80°-90°)	614.1	2.7			G4/750
BL	(0°-30°)	1076.0	4.8	B3/2500		
BM	(30°-60°)	2431.2	10.8	B2/2500		
BH	(60°-80°)	937.6	4.2	B2/1000		G2/1000
BVH	(80°-90°)	30.2	0.1			G1/100
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°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3
2.5°	3492.7	3519.0	3578.0	3609.0	3657.1	3660.2	3660.2	3618.2	3616.7	3531.4	3522.1
5°	3903.6	3965.7	4105.2	4249.5	4280.5	4288.3	4272.8	4189.1	4127.0	3961.0	3925.3
7.5°	4311.6	4431.0	4643.5	4835.7	4897.8	4897.8	4860.5	4724.1	4596.9	4356.6	4266.6
10°	4649.6	4800.1	5088.5	5304.2	5375.5	5359.9	5284.0	5111.8	4936.6	4645.0	4527.1
12.5°	4873.0	5042.1	5358.4	5532.1	5605.0	5564.7	5477.8	5310.3	5125.8	4818.7	4685.3
15°	4984.7	5161.5	5436.0	5527.5	5507.3	5465.4	5454.5	5374.0	5234.4	4947.5	4801.6
17.5°	5032.8	5197.2	5387.9	5330.5	5160.0	5127.4	5235.9	5338.3	5304.2	5059.1	4922.6
20°	5077.7	5215.7	5273.1	5018.8	4720.9	4691.5	4899.4	5190.9	5339.8	5163.0	5037.4
22.5°	5139.8	5225.0	5107.2	4690.0	4369.0	4300.7	4530.2	4969.1	5350.7	5294.8	5169.2
25°	5225.0	5248.3	4924.2	4378.3	4055.6	3987.5	4201.5	4722.6	5332.0	5437.5	5330.5
27.5°	5327.4	5279.4	4748.9	4117.7	3805.9	3742.4	3956.4	4485.3	5279.4	5580.2	5504.2
30°	5460.8	5319.6	4575.2	3916.1	3627.6	3581.0	3787.4	4280.5	5214.2	5761.6	5719.8
32.5°	5595.7	5336.7	4414.0	3798.2	3587.3	3604.3	3773.3	4170.4	5142.8	5935.4	5955.6
35°	5741.5	5391.0	4334.8	3914.5	3923.8	4072.7	4142.5	4272.8	5132.0	6171.1	6250.2
37.5°	5940.0	5511.9	4429.4	4493.0	4815.6	5124.2	5066.9	4773.7	5257.6	6523.2	6670.5
40°	6225.3	5724.4	4842.0	5477.8	6140.1	6641.1	6422.3	5684.1	5642.2	7030.3	7250.5
42.5°	6641.1	6062.6	5574.0	6681.4	7804.2	8629.3	8043.1	6858.2	6315.3	7754.6	8035.3
45°	7255.2	6610.0	6459.5	7951.5	9856.1	11155.8	9936.8	8109.7	7258.3	8851.1	9071.4
47.5°	8106.6	7415.0	7289.3	9290.0	12349.9	14031.1	12036.7	9269.8	8331.5	10346.1	10397.4
50°	9237.3	8499.0	8075.7	10754.1	15084.2	16962.4	14135.1	10389.6	9561.4	12173.1	12114.2
52.5°	10729.3	10011.2	8992.2	12148.3	17896.0	19831.6	16242.8	11372.9	11087.5	14293.2	14172.3
55°	12764.0	12286.4	10245.4	13479.1	20706.3	22717.8	18268.3	12300.3	13103.7	16811.9	16079.9
57.5°	15288.9	15630.1	12052.2	15022.2	23232.8	25692.5	20303.1	13596.9	15721.7	19628.4	17187.3
60°	16917.4	20076.7	15512.2	17303.5	26103.5	29056.4	23091.6	16062.9	18473.0	20638.1	16976.4
62.5°	16523.5	21491.1	19656.3	20216.2	28743.2	31502.2	25824.4	18539.7	18991.0	19150.7	15351.0
65°	15315.3	20349.6	18811.1	20782.3	29411.6	31640.3	26554.8	18220.2	16109.4	15634.8	12339.1
67.5°	13652.7	18995.6	16802.6	19281.0	28203.4	29711.0	25194.6	16117.1	12449.2	11732.7	8951.9
70°	11858.3	17497.5	15484.4	17596.7	25900.3	26348.5	22882.2	14175.3	9156.6	7923.7	5744.6
72.5°	10155.4	15937.2	14581.8	15870.6	22828.0	21900.5	19871.9	12458.6	6667.4	5715.1	4083.6
75°	8413.7	13635.7	13296.0	13820.2	18787.8	17250.9	16511.1	10315.2	5232.8	4134.7	2818.0
77.5°	6492.1	10654.8	11436.4	11067.3	13224.7	12813.7	12798.2	7751.5	3823.0	2759.1	1766.5
80°	4443.4	7425.8	8934.8	7807.3	8582.7	8373.4	9639.0	5200.2	2773.0	1661.0	983.3
82.5°	2611.7	4521.0	6219.2	3779.6	4745.9	4871.4	5739.9	2529.6	1631.6	383.0	214.0
85°	1059.2	1785.1	2431.8	1479.6	2289.1	1930.9	2179.0	710.3	454.4	9.3	0.0
87.5°	266.8	570.7	400.2	165.9	265.2	243.5	192.3	86.8	18.7	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°	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3
2.5°	3461.6	3426.0	3337.6	3249.1	3177.8	3081.7	3018.1	2942.1	2869.2	2804.1	2791.7
5°	3827.7	3709.8	3548.6	3401.2	3250.7	3104.9	2960.7	2808.7	2669.1	2583.8	2529.6
7.5°	4125.4	3917.7	3703.6	3516.0	3334.4	3163.9	2973.1	2788.5	2569.9	2453.5	2348.1
10°	4347.2	4074.3	3793.5	3578.0	3395.0	3229.1	3067.7	2881.6	2618.0	2472.2	2313.9
12.5°	4493.0	4168.9	3840.1	3593.4	3388.8	3260.0	3188.7	3115.8	2853.7	2683.0	2453.5
15°	4593.8	4235.5	3872.7	3557.8	3306.5	3211.9	3283.3	3367.0	3199.5	3002.5	2703.2
17.5°	4703.9	4322.4	3886.6	3461.6	3146.9	3106.5	3291.1	3484.9	3477.1	3281.7	2988.6
20°	4820.3	4398.4	3877.3	3306.5	2952.9	2988.6	3224.3	3449.2	3543.8	3438.4	3177.8
22.5°	4939.7	4471.3	3841.6	3104.9	2771.5	2883.1	3118.9	3315.9	3427.5	3395.0	3196.5
25°	5090.2	4573.7	3788.9	2887.8	2621.0	2776.1	2996.4	3156.1	3233.7	3232.1	3095.6
27.5°	5270.0	4710.2	3760.9	2712.6	2514.0	2655.2	2850.6	2993.3	3047.5	3047.5	2939.0
30°	5479.3	4871.4	3730.0	2597.8	2452.0	2529.6	2681.5	2821.1	2875.4	2875.4	2783.9
32.5°	5712.0	5026.5	3655.6	2528.0	2405.5	2407.0	2503.2	2630.4	2695.5	2704.8	2639.7
35°	5991.2	5192.4	3492.7	2472.2	2351.1	2287.6	2334.1	2439.6	2517.1	2537.3	2497.0
37.5°	6357.3	5395.6	3260.0	2390.0	2267.4	2161.9	2172.8	2253.5	2338.7	2369.8	2343.5
40°	6848.8	5634.5	3018.1	2272.1	2149.5	2024.0	2019.2	2078.2	2161.9	2196.1	2182.1
42.5°	7498.7	5921.4	2787.0	2158.9	2006.8	1878.2	1870.4	1917.0	1989.8	2025.5	2019.2
45°	8330.0	6273.4	2588.4	2070.5	1867.3	1740.1	1737.1	1775.8	1839.4	1876.6	1868.9
47.5°	9485.5	6625.5	2453.5	2024.0	1757.2	1626.9	1633.1	1667.3	1724.7	1751.0	1740.1
50°	10991.4	6732.5	2385.3	2024.0	1698.2	1526.1	1557.1	1585.1	1628.4	1644.0	1630.1
52.5°	12436.8	6378.9	2323.3	2036.4	1706.0	1440.8	1507.5	1527.7	1564.9	1571.1	1550.9
55°	13145.6	5484.1	2238.0	2039.4	1754.1	1367.9	1467.2	1504.4	1518.3	1516.8	1482.7
57.5°	12902.1	4434.0	2093.8	2027.0	1786.7	1321.4	1417.6	1488.9	1498.1	1484.2	1420.6
60°	12047.5	3264.7	1983.6	1935.5	1774.3	1307.4	1341.5	1454.8	1468.7	1450.1	1346.2
62.5°	10614.5	2265.9	1898.3	1733.9	1720.0	1302.8	1222.1	1380.4	1414.4	1388.1	1236.0
65°	8356.3	1600.5	1634.7	1519.9	1602.1	1278.0	1098.1	1290.4	1336.9	1296.5	1082.5
67.5°	5654.6	1155.5	1324.5	1377.2	1411.3	1222.1	1008.1	1188.0	1250.1	1197.3	904.2
70°	3053.8	811.1	874.7	1160.1	1198.8	1126.0	927.4	1084.1	1155.5	1098.1	736.7
72.5°	1803.7	583.1	612.6	932.1	998.8	991.1	837.5	963.1	1050.0	981.7	598.7
75°	994.1	393.9	437.4	676.2	811.1	764.6	719.7	815.8	904.2	837.5	462.2
77.5°	445.2	235.7	304.0	443.5	637.4	524.2	556.8	635.9	718.1	648.3	308.6
80°	172.2	131.8	201.6	241.9	463.7	290.0	358.2	468.4	527.4	471.5	187.7
82.5°	21.7	58.9	86.8	94.6	269.9	153.5	207.9	294.7	290.0	251.2	94.6
85°	0.0	10.9	12.4	6.3	116.3	55.9	68.3	96.1	90.0	68.3	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	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°	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3
2.5°	2715.6	2659.8	2631.9	2608.6	2630.4	2642.8	2642.8	2695.5	2726.5	2738.9	2825.8
5°	2393.1	2289.1	2219.3	2177.5	2191.4	2206.9	2224.0	2290.7	2335.7	2365.2	2500.1
7.5°	2138.8	1980.5	1882.8	1831.7	1839.4	1850.2	1864.2	1929.4	1974.4	2013.1	2163.6
10°	2013.1	1789.8	1661.0	1599.0	1588.1	1582.0	1577.3	1616.0	1650.1	1681.2	1830.0
12.5°	2019.2	1707.5	1550.9	1474.9	1442.4	1405.2	1375.7	1381.9	1403.5	1442.4	1537.0
15°	2098.4	1681.2	1493.5	1398.9	1344.6	1301.2	1265.6	1257.8	1265.6	1271.7	1330.7
17.5°	2205.4	1678.1	1443.9	1326.0	1270.2	1234.5	1201.9	1191.2	1192.7	1200.4	1216.0
20°	2290.7	1668.8	1388.1	1256.2	1206.6	1175.6	1143.0	1132.2	1135.3	1136.8	1153.8
22.5°	2335.7	1654.9	1326.0	1186.4	1144.6	1113.6	1084.1	1082.5	1082.5	1091.8	1104.2
25°	2335.7	1625.3	1270.2	1119.8	1082.5	1054.6	1019.0	1025.2	1028.3	1040.7	1059.2
27.5°	2279.8	1569.5	1225.2	1062.4	1023.6	995.7	963.1	970.9	975.5	989.5	1012.7
30°	2208.5	1502.9	1174.0	1008.1	963.1	943.0	915.0	918.1	924.3	939.8	966.3
32.5°	2132.5	1423.7	1132.2	953.9	908.9	893.3	862.3	866.9	873.2	890.2	919.7
35°	2048.8	1330.7	1082.5	904.2	859.3	846.8	811.1	814.3	823.6	842.1	871.7
37.5°	1960.3	1254.7	1032.9	856.1	809.5	797.1	759.9	763.0	773.9	795.6	823.6
40°	1873.5	1180.3	980.2	804.9	758.4	747.5	707.2	710.3	722.7	746.0	775.4
42.5°	1778.9	1122.9	911.9	752.1	702.5	691.7	654.5	659.2	673.1	696.4	725.8
45°	1665.7	1085.7	836.0	702.5	646.8	635.9	601.8	611.1	626.6	649.8	680.8
47.5°	1549.4	1070.1	772.3	649.8	589.4	580.0	552.2	567.6	584.7	603.3	637.4
50°	1437.7	1050.0	707.2	600.2	539.8	530.4	511.8	532.0	549.0	566.1	598.7
52.5°	1310.6	1006.6	648.3	556.8	497.8	494.8	485.4	504.1	519.6	535.0	563.0
55°	1178.6	936.7	597.1	518.0	462.2	465.2	460.6	476.1	488.5	502.5	527.4
57.5°	1063.9	848.4	556.8	476.1	431.1	440.4	434.3	442.0	449.8	466.8	487.0
60°	947.6	742.9	511.8	426.5	400.2	411.0	393.9	392.4	395.4	400.2	437.4
62.5°	791.0	632.7	455.9	383.0	366.0	370.6	338.1	313.2	313.2	318.0	373.8
65°	635.9	530.4	393.9	333.4	319.5	316.4	269.9	235.7	232.7	246.6	294.7
67.5°	522.6	440.4	331.9	277.6	268.3	271.4	237.3	203.2	200.1	215.6	251.2
70°	432.8	355.2	265.2	214.0	223.3	237.3	203.2	170.6	165.9	179.9	214.0
72.5°	344.3	277.6	203.2	158.2	184.6	201.6	165.9	134.9	131.8	144.2	176.8
75°	252.8	198.5	138.1	114.8	142.7	158.2	121.0	96.1	91.5	102.4	134.9
77.5°	156.6	111.6	86.8	68.3	97.7	105.5	63.6	55.9	54.3	62.0	85.3
80°	72.9	48.1	41.9	23.3	35.7	41.9	26.3	29.4	31.1	37.2	52.7
82.5°	20.2	7.8	1.5	0.0	0.0	12.4	6.3	12.4	15.5	23.3	34.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.8	13.9	24.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.4
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: P969894

CATALOG NUMBER: NAV-SB6A-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3	3117.3
2.5°	2890.9	2952.9	3052.2	3154.5	3255.4	3357.7	3457.0	3492.7
5°	2622.6	2765.2	2962.2	3173.2	3390.3	3610.6	3812.2	3903.6
7.5°	2323.3	2528.0	2824.2	3154.5	3500.4	3846.3	4164.2	4311.6
10°	2003.8	2262.8	2600.9	3047.5	3543.8	4021.5	4458.9	4649.6
12.5°	1699.8	1971.2	2345.0	2880.0	3509.7	4122.3	4648.1	4873.0
15°	1445.5	1685.8	2089.1	2681.5	3399.6	4128.5	4738.1	4984.7
17.5°	1254.7	1411.3	1828.5	2461.3	3255.4	4071.2	4769.1	5032.8
20°	1160.1	1203.6	1490.5	2179.0	3120.4	4016.9	4800.1	5077.7
22.5°	1104.2	1115.1	1219.0	1814.6	2959.2	3999.9	4854.4	5139.8
25°	1059.2	1062.4	1090.3	1437.7	2712.6	3989.0	4938.1	5225.0
27.5°	1014.3	1014.3	1029.8	1158.6	2377.6	3942.5	5046.7	5327.4
30°	969.3	969.3	980.2	1025.2	1985.2	3850.9	5177.0	5460.8
32.5°	922.8	922.8	932.1	964.6	1585.1	3736.1	5296.4	5595.7
35°	876.3	873.2	885.6	919.7	1260.9	3590.4	5415.8	5741.5
37.5°	826.7	825.1	837.5	876.3	1088.8	3421.3	5505.8	5940.0
40°	773.9	773.9	787.8	829.7	1039.1	3208.9	5648.5	6225.3
42.5°	725.8	722.7	738.2	789.5	1001.9	3005.7	5904.3	6641.1
45°	679.3	673.1	687.1	750.6	936.7	2934.4	6382.1	7255.2
47.5°	635.9	620.3	632.7	704.1	877.8	3201.1	7163.7	8106.6
50°	600.2	570.7	581.6	657.6	832.8	3779.6	8178.0	9237.3
52.5°	563.0	524.2	530.4	600.2	792.5	4330.1	9277.6	10729.3
55°	524.2	480.8	483.9	542.8	735.1	4412.3	10350.9	12764.0
57.5°	480.8	440.4	440.4	490.1	693.3	3824.6	11175.9	15288.9
60°	432.8	406.3	398.6	448.2	730.5	2698.6	11272.0	16917.4
62.5°	380.0	366.0	355.2	407.8	758.4	1599.0	10498.2	16523.5
65°	319.5	316.4	308.6	448.2	639.0	944.5	9012.4	15315.3
67.5°	268.3	263.6	263.6	470.0	485.4	594.0	7041.1	13652.7
70°	231.1	214.0	214.0	355.2	294.7	411.0	4916.4	11858.3
72.5°	193.8	175.3	162.9	283.8	220.3	300.8	3072.3	10155.4
75°	155.1	141.1	125.7	187.7	164.4	228.0	1785.1	8413.7
77.5°	111.6	105.5	88.4	138.1	119.4	164.4	1062.4	6492.1
80°	57.4	58.9	55.9	79.1	80.7	111.6	604.9	4443.4
82.5°	34.1	26.3	29.4	38.7	46.5	63.6	228.0	2611.7
85°	21.7	13.9	13.9	18.7	23.3	24.8	69.8	1059.2
87.5°	10.9	4.6	6.3	9.3	7.8	6.3	3.1	266.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)