

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: P965648

Luminaire Tested: **NAV-SB4A-740-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-740-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19425.7 lumens
Efficiency: N/A
Efficacy: 170.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 114
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



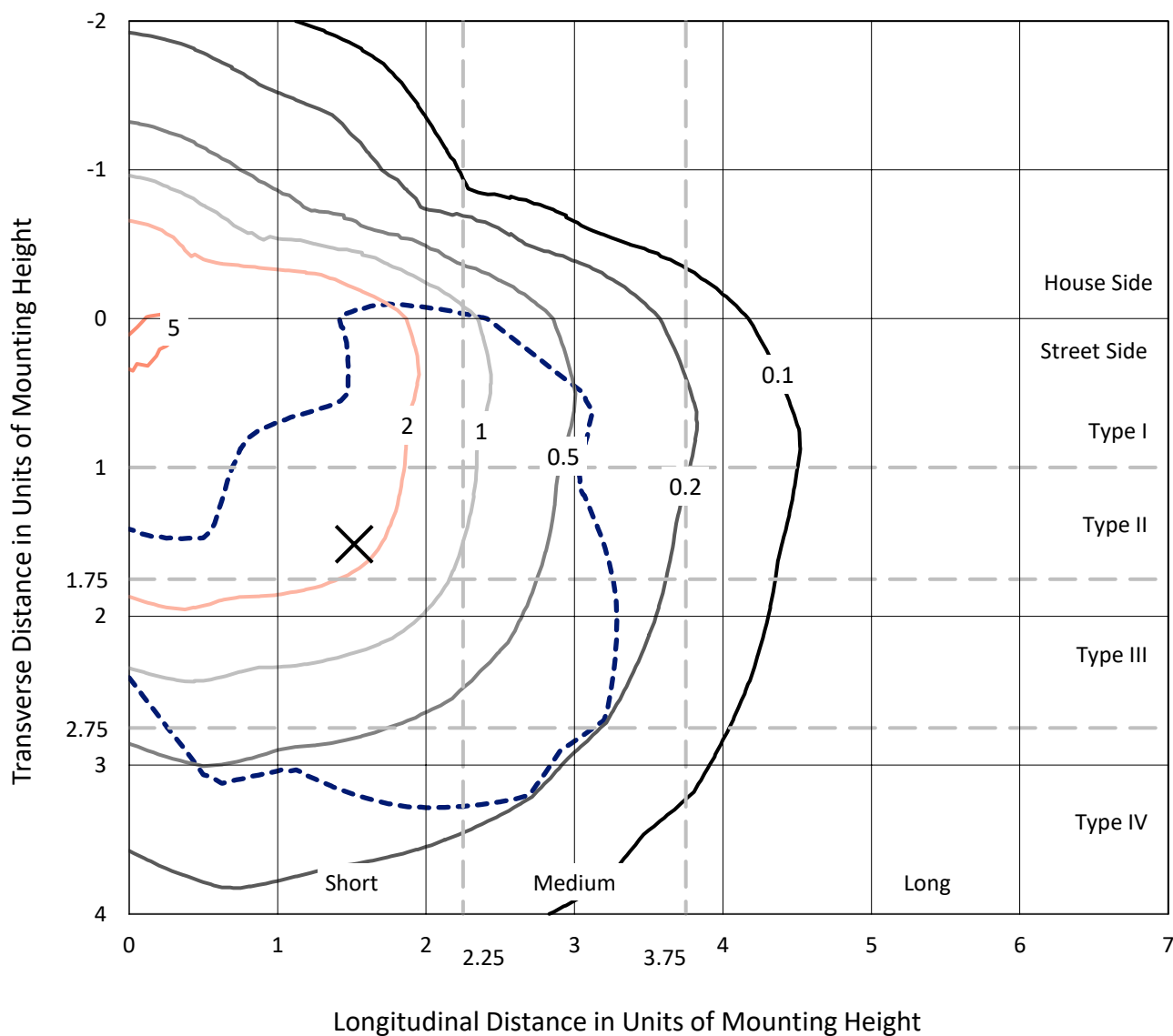
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

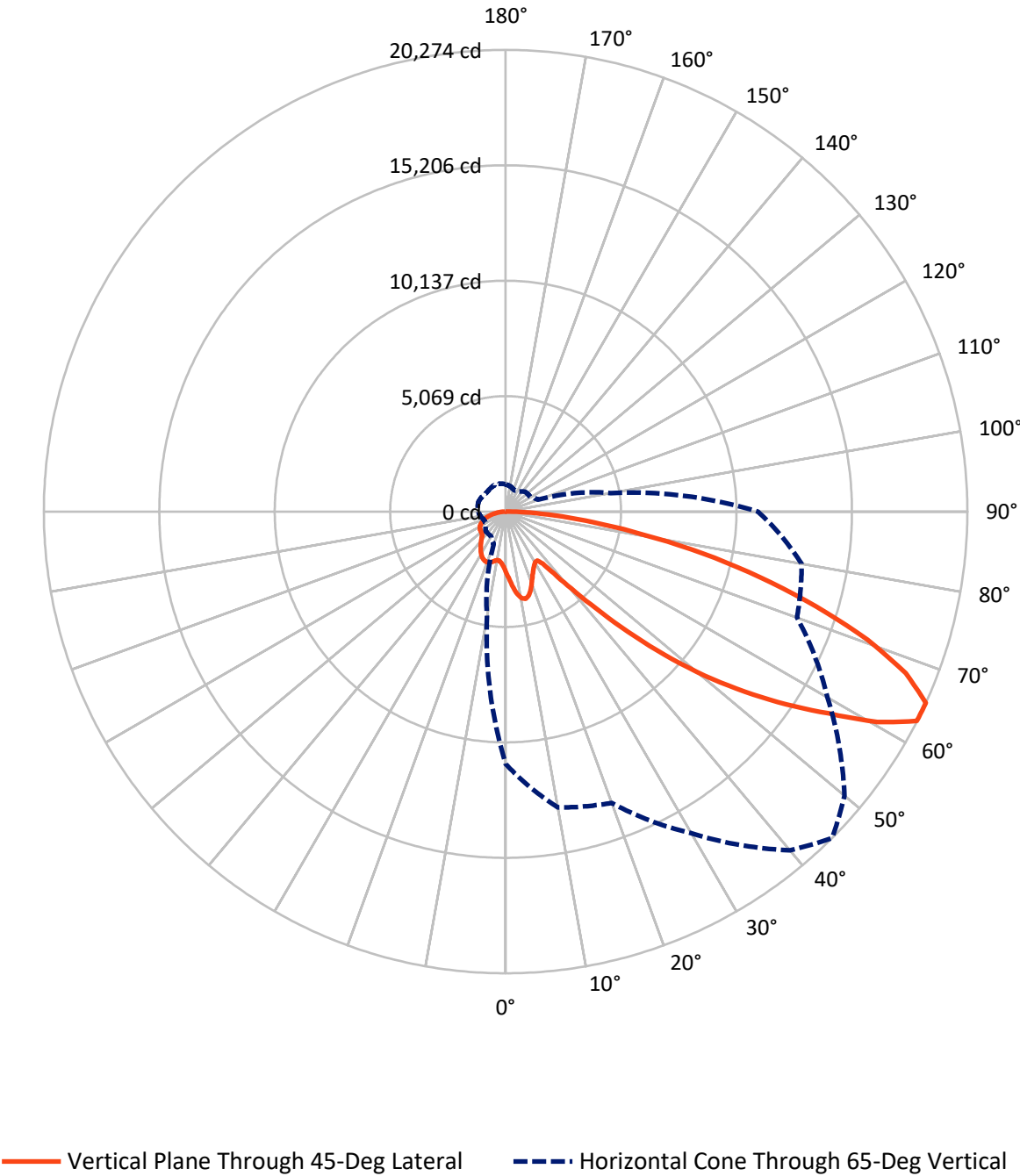


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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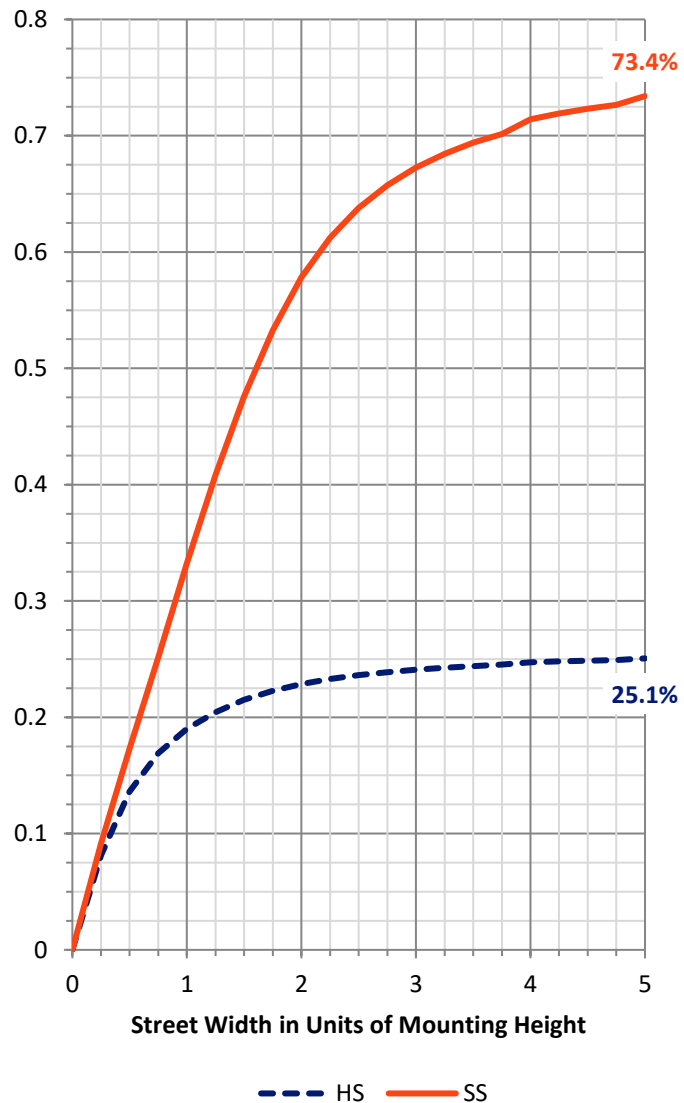
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4937.0	0.0	4937.0
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	14488.7	0.0	14488.7
	% Fixture	74.6	0.0	74.6
Total	Lumens	19425.7	0.0	19425.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.4
10°-20°	831.8	4.3
20°-30°	1284.9	6.6
30°-40°	1628.3	8.4
40°-50°	2455.8	12.6
50°-60°	3967.8	20.4
60°-70°	4946.5	25.5
70°-80°	3243.7	16.7
80°-90°	801.9	4.1
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°	19425.7	100.0
0°-180°	19425.7	100.0

Coefficient of Utilization



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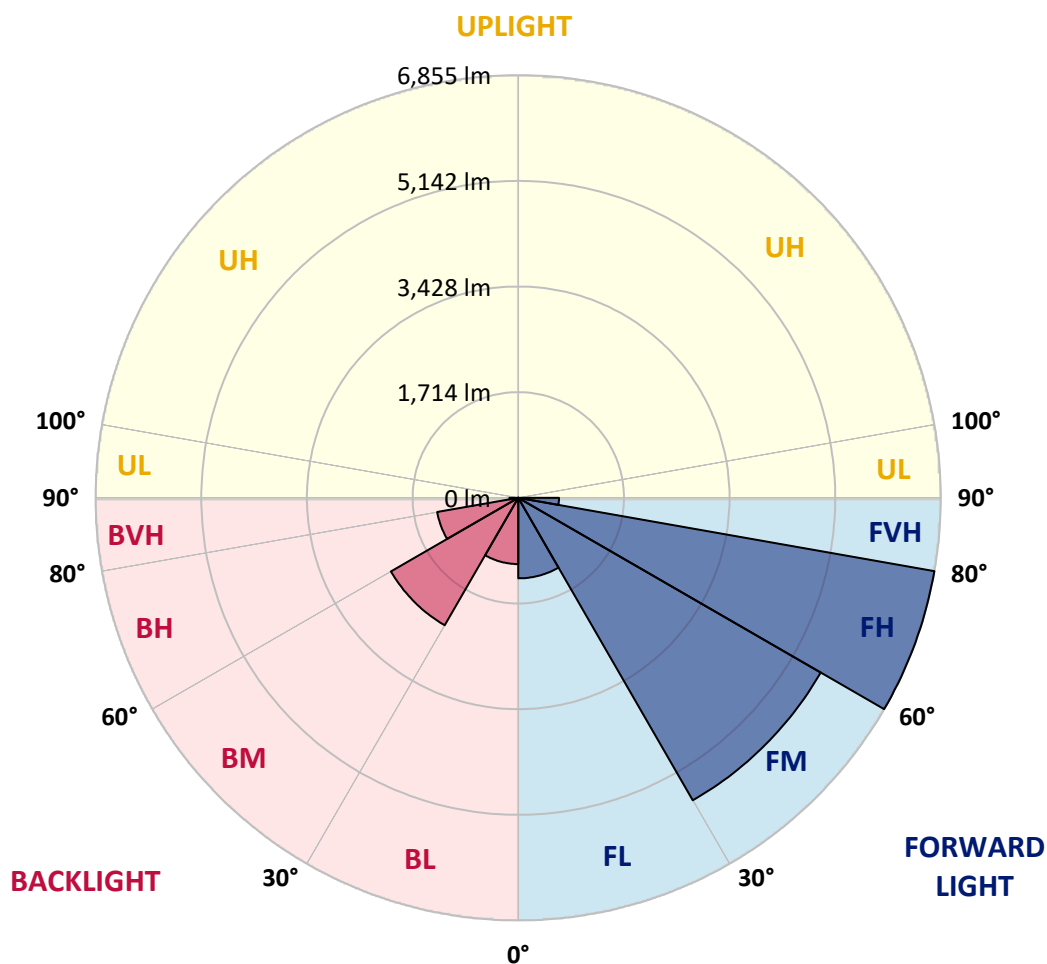
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1306.6	6.7			
FM	(30°-60°)	5666.1	29.2			
FH	(60°-80°)	6855.4	35.3			G3/7500
FVH	(80°-90°)	660.6	3.4			G4/750
BL	(0°-30°)	1075.1	5.5	B3/2500		
BM	(30°-60°)	2385.9	12.3	B2/2500		
BH	(60°-80°)	1334.7	6.9	B3/2500		G3/2500
BVH	(80°-90°)	141.3	0.7			G2/225
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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2872.7	2883.5	2894.5	2910.0	2925.5	2934.7	2943.9	2948.5	2953.1	2951.1	2953.1
5°	3088.9	3127.0	3165.1	3202.8	3240.6	3261.1	3281.6	3294.0	3306.5	3316.0	3306.5
7.5°	3306.2	3368.2	3430.0	3485.6	3541.3	3574.8	3608.3	3626.4	3644.5	3653.2	3644.5
10°	3472.8	3546.0	3619.2	3684.5	3749.8	3789.3	3828.7	3846.3	3863.8	3870.5	3863.8
12.5°	3574.8	3654.1	3733.4	3792.4	3851.2	3879.9	3908.6	3918.3	3927.9	3928.9	3927.9
15°	3636.8	3705.3	3773.6	3810.6	3847.7	3848.8	3849.8	3839.5	3829.3	3817.2	3829.3
17.5°	3671.7	3717.9	3764.1	3764.8	3765.4	3723.9	3682.4	3644.4	3606.3	3579.4	3606.3
20°	3710.1	3726.2	3742.4	3693.7	3645.0	3553.4	3461.7	3395.0	3328.3	3287.3	3328.3
22.5°	3754.7	3733.6	3712.4	3611.6	3510.7	3375.9	3241.2	3157.7	3074.3	3029.0	3074.3
25°	3812.1	3745.5	3678.8	3525.7	3372.6	3208.9	3045.2	2957.4	2869.9	2827.1	2869.9
27.5°	3890.0	3770.9	3651.7	3448.8	3246.1	3064.6	2883.2	2796.9	2710.7	2670.2	2710.7
30°	3995.0	3817.4	3639.9	3390.2	3140.5	2951.5	2762.5	2682.4	2602.4	2564.7	2602.4
32.5°	4119.1	3875.8	3632.7	3350.2	3067.7	2890.1	2712.5	2649.6	2586.7	2559.5	2586.7
35°	4269.7	3972.1	3674.5	3380.1	3085.9	2962.5	2839.1	2824.5	2809.8	2807.6	2809.8
37.5°	4523.4	4173.3	3823.1	3555.6	3288.1	3280.1	3272.1	3339.1	3406.2	3441.0	3406.2
40°	4906.8	4526.0	4145.2	3946.2	3747.3	3887.7	4028.1	4191.1	4354.1	4435.3	4354.1
42.5°	5415.2	5037.4	4659.5	4545.0	4430.4	4736.6	5042.9	5339.3	5635.8	5809.8	5635.8
45°	6043.0	5703.6	5364.1	5313.6	5263.0	5753.6	6244.4	6731.6	7218.8	7514.5	7218.8
47.5°	6828.2	6498.1	6167.7	6157.5	6147.2	6855.2	7562.9	8276.0	8988.9	9407.7	8988.9
50°	7857.3	7449.5	7041.7	7043.5	7045.2	7957.5	8869.7	9811.0	10752.4	11321.4	10752.4
52.5°	9038.7	8544.8	8051.1	8001.2	7951.1	9040.8	10130.5	11295.2	12459.7	13141.8	12459.7
55°	10296.3	9808.4	9320.5	9125.9	8931.2	10144.0	11356.8	12745.2	14133.5	14944.9	14133.5
57.5°	11440.3	11174.7	10908.9	10518.3	10128.0	11352.7	12577.3	14149.8	15722.4	16728.4	15722.4
60°	12131.7	12544.4	12957.1	12472.3	11987.5	13146.3	14305.2	15989.0	17672.6	18760.0	17672.6
62.5°	11780.6	12908.2	14035.8	13981.2	13926.5	14988.2	16049.9	17651.7	19253.6	20258.6	19253.6
65°	11078.0	12136.3	13194.6	13404.0	13613.3	14962.5	16311.7	17865.0	19418.3	20274.0	19418.3
67.5°	10136.4	11143.1	12149.6	12247.8	12345.9	13751.6	15157.3	16717.2	18277.2	18947.5	18277.2
70°	9005.3	10100.1	11195.2	11239.0	11283.0	12540.1	13797.0	15139.6	16481.9	16854.5	16481.9
72.5°	7657.5	8913.8	10170.3	10201.8	10233.3	11216.9	12200.4	13205.8	14211.1	14248.8	14211.1
75°	5952.3	7252.7	8553.0	8669.8	8786.5	9551.7	10316.8	11024.7	11732.5	11542.8	11732.5
77.5°	4252.8	5466.6	6680.6	6847.7	7014.8	7596.5	8178.2	8680.1	9182.2	8856.2	9182.2
80°	2783.5	3804.7	4825.8	5033.5	5241.1	5680.4	6119.6	6383.3	6646.8	6122.4	6646.8
82.5°	1618.0	2316.2	3014.4	3246.4	3478.4	3780.8	4083.2	4193.2	4303.1	3891.0	4303.1
85°	711.9	1082.4	1452.9	1650.2	1847.6	2096.0	2344.5	2406.9	2469.3	2139.3	2469.3
87.5°	220.4	344.9	469.4	579.5	689.6	813.8	938.1	943.4	948.6	796.4	948.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2948.5	2943.9	2934.7	2925.5	2910.0	2894.5	2883.5	2872.7	2850.6	2828.6	2805.1
5°	3294.0	3281.6	3261.1	3240.6	3202.8	3165.1	3127.0	3088.9	3040.3	2991.6	2943.0
7.5°	3626.4	3608.3	3574.8	3541.3	3485.6	3430.0	3368.2	3306.2	3225.9	3145.6	3071.4
10°	3846.3	3828.7	3789.3	3749.8	3684.5	3619.2	3546.0	3472.8	3371.2	3269.6	3171.6
12.5°	3918.3	3908.6	3879.9	3851.2	3792.4	3733.4	3654.1	3574.8	3463.2	3351.6	3240.5
15°	3839.5	3849.8	3848.8	3847.7	3810.6	3773.6	3705.3	3636.8	3520.5	3404.1	3283.6
17.5°	3644.4	3682.4	3723.9	3765.4	3764.8	3764.1	3717.9	3671.7	3553.7	3435.7	3304.2
20°	3395.0	3461.7	3553.4	3645.0	3693.7	3742.4	3726.2	3710.1	3587.5	3464.8	3320.3
22.5°	3157.7	3241.2	3375.9	3510.7	3611.6	3712.4	3733.6	3754.7	3629.4	3504.1	3342.0
25°	2957.4	3045.2	3208.9	3372.6	3525.7	3678.8	3745.5	3812.1	3689.3	3566.6	3381.4
27.5°	2796.9	2883.2	3064.6	3246.1	3448.8	3651.7	3770.9	3890.0	3772.9	3655.8	3442.9
30°	2682.4	2762.5	2951.5	3140.5	3390.2	3639.9	3817.4	3995.0	3881.9	3768.8	3522.5
32.5°	2649.6	2712.5	2890.1	3067.7	3350.2	3632.7	3875.8	4119.1	4007.0	3895.1	3605.6
35°	2824.5	2839.1	2962.5	3085.9	3380.1	3674.5	3972.1	4269.7	4162.5	4055.2	3700.4
37.5°	3339.1	3272.1	3280.1	3288.1	3555.6	3823.1	4173.3	4523.4	4386.7	4250.0	3806.4
40°	4191.1	4028.1	3887.7	3747.3	3946.2	4145.2	4526.0	4906.8	4707.5	4508.3	3941.1
42.5°	5339.3	5042.9	4736.6	4430.4	4545.0	4659.5	5037.4	5415.2	5127.6	4839.9	4117.3
45°	6731.6	6244.4	5753.6	5263.0	5313.6	5364.1	5703.6	6043.0	5655.0	5267.1	4349.2
47.5°	8276.0	7562.9	6855.2	6147.2	6157.5	6167.7	6498.1	6828.2	6282.1	5736.0	4596.2
50°	9811.0	8869.7	7957.5	7045.2	7043.5	7041.7	7449.5	7857.3	7034.2	6210.8	4825.4
52.5°	11295.2	10130.5	9040.8	7951.1	8001.2	8051.1	8544.8	9038.7	7824.0	6609.4	4974.2
55°	12745.2	11356.8	10144.0	8931.2	9125.9	9320.5	9808.4	10296.3	8524.3	6752.4	4941.4
57.5°	14149.8	12577.3	11352.7	10128.0	10518.3	10908.9	11174.7	11440.3	9020.6	6601.0	4710.6
60°	15989.0	14305.2	13146.3	11987.5	12472.3	12957.1	12544.4	12131.7	9144.6	6157.5	4281.0
62.5°	17651.7	16049.9	14988.2	13926.5	13981.2	14035.8	12908.2	11780.6	8622.4	5464.2	3700.1
65°	17865.0	16311.7	14962.5	13613.3	13404.0	13194.6	12136.3	11078.0	7883.5	4689.0	3107.5
67.5°	16717.2	15157.3	13751.6	12345.9	12247.8	12149.6	11143.1	10136.4	7004.1	3871.7	2526.9
70°	15139.6	13797.0	12540.1	11283.0	11239.0	11195.2	10100.1	9005.3	6044.5	3083.8	1989.5
72.5°	13205.8	12200.4	11216.9	10233.3	10201.8	10170.3	8913.8	7657.5	5004.4	2351.5	1521.0
75°	11024.7	10316.8	9551.7	8786.5	8669.8	8553.0	7252.7	5952.3	3812.0	1671.6	1103.9
77.5°	8680.1	8178.2	7596.5	7014.8	6847.7	6680.6	5466.6	4252.8	2668.1	1083.2	748.0
80°	6383.3	6119.6	5680.4	5241.1	5033.5	4825.8	3804.7	2783.5	1718.9	654.5	482.0
82.5°	4193.2	4083.2	3780.8	3478.4	3246.4	3014.4	2316.2	1618.0	994.9	371.9	296.4
85°	2406.9	2344.5	2096.0	1847.6	1650.2	1452.9	1082.4	711.9	447.5	183.3	158.5
87.5°	943.4	938.1	813.8	689.6	579.5	469.4	344.9	220.4	146.6	72.8	65.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2781.7	2758.2	2734.6	2712.0	2689.5	2667.7	2643.4	2623.7	2604.1	2586.4	2568.8
5°	2894.5	2845.6	2796.8	2751.2	2705.6	2662.5	2620.0	2582.9	2545.7	2514.5	2483.5
7.5°	2997.2	2924.9	2852.7	2789.0	2725.4	2666.6	2611.6	2562.2	2512.9	2471.9	2430.9
10°	3073.6	2985.8	2898.0	2822.7	2747.3	2674.8	2615.7	2563.6	2511.6	2470.6	2429.6
12.5°	3129.4	3025.9	2922.4	2837.2	2752.0	2675.9	2620.8	2578.2	2535.7	2508.5	2481.4
15°	3163.0	3043.8	2924.6	2826.0	2727.4	2643.1	2599.0	2578.6	2558.3	2562.0	2565.7
17.5°	3172.7	3034.3	2895.9	2777.3	2658.7	2559.5	2532.4	2539.8	2547.2	2591.9	2636.6
20°	3175.8	3008.1	2840.4	2693.4	2546.4	2430.9	2423.7	2458.6	2493.4	2571.0	2648.7
22.5°	3179.9	2975.9	2771.9	2594.9	2417.9	2286.4	2300.4	2352.0	2403.5	2492.1	2580.8
25°	3196.1	2944.1	2692.3	2484.9	2277.7	2142.9	2180.8	2240.2	2299.7	2379.3	2459.1
27.5°	3229.9	2922.9	2615.9	2384.4	2152.8	2030.0	2076.1	2133.6	2191.0	2256.5	2321.9
30°	3276.2	2912.9	2549.5	2300.3	2051.0	1948.0	1984.2	2029.7	2075.4	2129.8	2184.2
32.5°	3316.2	2900.6	2484.9	2227.8	1970.6	1887.5	1903.6	1930.6	1957.5	2000.9	2044.4
35°	3345.5	2877.5	2409.7	2156.6	1903.4	1834.2	1827.6	1835.0	1842.4	1875.5	1908.5
37.5°	3362.9	2837.8	2312.7	2072.7	1832.7	1772.2	1747.8	1739.6	1731.4	1755.2	1778.9
40°	3373.9	2783.2	2192.6	1972.6	1752.7	1697.9	1660.5	1641.9	1623.4	1640.5	1657.6
42.5°	3394.7	2726.8	2059.0	1862.2	1665.4	1614.9	1567.7	1543.1	1518.5	1532.5	1546.5
45°	3431.3	2674.4	1917.6	1745.0	1572.4	1521.1	1475.5	1451.5	1427.6	1439.3	1451.2
47.5°	3456.4	2631.2	1805.8	1652.2	1498.6	1432.4	1393.2	1373.1	1353.0	1364.1	1375.0
50°	3440.0	2584.0	1727.9	1590.6	1453.2	1366.3	1320.7	1302.9	1285.1	1302.4	1319.7
52.5°	3339.0	2504.4	1669.7	1550.0	1430.4	1330.4	1266.7	1249.1	1231.5	1257.5	1283.3
55°	3130.5	2372.4	1614.2	1520.6	1427.0	1334.0	1238.0	1210.1	1182.3	1219.1	1255.8
57.5°	2820.4	2186.2	1551.8	1485.7	1419.6	1337.6	1220.8	1180.2	1139.6	1179.2	1218.7
60°	2404.5	1944.4	1484.4	1432.4	1380.5	1326.4	1204.6	1152.0	1099.3	1134.1	1168.7
62.5°	1936.0	1655.2	1374.3	1339.8	1305.3	1298.7	1185.7	1119.9	1054.2	1076.2	1098.3
65°	1526.0	1394.9	1263.8	1247.5	1231.2	1232.0	1145.9	1076.0	1006.0	1014.5	1023.0
67.5°	1182.0	1144.8	1107.5	1116.6	1125.7	1123.4	1075.0	1016.8	958.6	955.9	953.2
70°	895.3	906.0	916.6	958.8	1000.9	1000.9	985.0	943.6	902.2	893.0	883.8
72.5°	690.6	722.7	754.9	814.8	874.5	884.6	884.8	856.4	828.0	814.5	801.0
75°	536.3	565.4	594.5	661.5	728.6	774.9	771.0	749.2	727.2	714.3	701.3
77.5°	412.9	432.7	452.5	517.6	582.7	659.1	657.0	639.5	622.0	608.8	595.7
80°	309.5	317.8	326.0	381.1	436.1	527.4	527.1	512.4	497.6	486.7	475.6
82.5°	221.2	222.6	224.3	264.9	305.4	383.3	387.7	380.5	373.3	365.5	357.7
85°	133.8	133.0	132.2	162.0	191.7	249.6	255.2	247.5	239.8	231.1	222.4
87.5°	58.6	57.9	57.2	69.3	81.5	105.6	112.7	109.7	106.6	105.0	103.3
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: P965648

CATALOG NUMBER: NAV-SB4A-740-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2553.3	2537.8	2522.2	2506.7	2494.7	2482.7	2472.9	2463.2	2455.6	2448.0	2441.0
5°	2456.0	2428.5	2403.6	2378.6	2359.4	2340.2	2326.8	2313.3	2303.8	2294.3	2287.0
7.5°	2396.3	2361.7	2331.2	2300.7	2277.9	2255.1	2239.1	2223.1	2212.2	2201.3	2194.7
10°	2392.4	2355.0	2320.7	2286.4	2259.1	2231.7	2213.9	2195.9	2185.5	2175.2	2169.6
12.5°	2452.1	2423.0	2387.4	2352.0	2317.1	2282.3	2259.2	2236.1	2224.6	2213.1	2208.4
15°	2558.1	2550.5	2519.7	2488.8	2439.2	2389.6	2354.5	2319.5	2303.4	2287.4	2281.2
17.5°	2660.4	2684.1	2659.2	2634.4	2568.6	2502.9	2451.3	2399.6	2375.8	2352.0	2344.2
20°	2698.4	2748.1	2736.6	2725.1	2649.9	2574.9	2511.6	2448.3	2417.9	2387.3	2377.6
22.5°	2645.5	2710.2	2717.2	2724.0	2652.3	2580.5	2515.4	2450.1	2418.0	2385.8	2375.0
25°	2522.7	2586.4	2610.2	2633.8	2575.0	2516.3	2458.3	2400.4	2372.6	2344.8	2334.6
27.5°	2373.0	2424.0	2450.5	2477.0	2435.1	2393.3	2348.3	2303.3	2284.6	2265.9	2261.3
30°	2226.5	2268.9	2290.5	2312.0	2280.1	2248.1	2215.9	2183.6	2174.0	2164.4	2164.4
32.5°	2085.0	2125.7	2149.6	2173.6	2144.3	2114.9	2089.1	2063.3	2057.1	2050.8	2051.6
35°	1948.7	1989.0	2017.7	2046.4	2025.5	2004.7	1980.9	1957.2	1947.7	1938.3	1936.2
37.5°	1819.0	1859.1	1894.6	1930.1	1920.4	1910.8	1889.0	1867.0	1849.7	1832.5	1823.4
40°	1696.4	1735.1	1775.9	1816.8	1819.2	1821.4	1802.9	1784.3	1759.1	1734.1	1717.1
42.5°	1583.2	1620.0	1664.1	1708.2	1720.0	1731.7	1716.1	1700.5	1669.2	1637.9	1613.2
45°	1486.0	1520.9	1566.6	1612.3	1629.2	1646.2	1632.0	1618.0	1582.2	1546.5	1517.5
47.5°	1409.2	1443.2	1488.3	1533.4	1552.9	1572.4	1562.5	1552.7	1520.9	1489.1	1462.3
50°	1351.9	1384.0	1424.3	1464.7	1489.7	1514.7	1514.1	1513.7	1488.3	1462.9	1438.1
52.5°	1312.8	1342.2	1379.9	1417.6	1447.2	1476.8	1482.1	1487.5	1466.8	1446.1	1423.8
55°	1287.6	1319.4	1352.4	1385.3	1416.7	1448.1	1455.5	1462.9	1444.8	1426.8	1407.3
57.5°	1256.0	1293.3	1325.9	1358.6	1390.3	1421.9	1429.4	1436.8	1418.6	1400.4	1381.1
60°	1211.6	1254.4	1287.5	1320.7	1352.5	1384.3	1392.5	1400.7	1382.8	1365.1	1345.2
62.5°	1148.2	1198.2	1233.6	1268.9	1298.1	1327.2	1335.1	1343.0	1326.9	1310.8	1289.9
65°	1076.5	1130.1	1163.9	1197.7	1223.3	1249.0	1257.1	1265.1	1249.6	1234.1	1213.8
67.5°	1002.7	1052.2	1084.2	1116.2	1138.4	1160.5	1168.4	1176.2	1161.9	1147.8	1128.9
70°	927.2	970.7	998.4	1026.0	1046.0	1066.0	1073.6	1081.2	1069.6	1058.0	1040.0
72.5°	835.3	869.4	894.4	919.4	939.0	958.6	967.6	976.6	967.0	957.4	940.1
75°	726.7	752.1	774.8	797.4	815.3	833.1	842.6	852.0	847.3	842.6	828.1
77.5°	616.4	637.0	656.5	676.0	694.7	713.4	722.2	731.0	724.5	717.7	703.2
80°	492.8	509.9	526.3	542.7	557.0	571.1	582.8	594.5	591.6	588.9	569.3
82.5°	356.3	354.9	349.1	343.4	373.7	404.1	423.9	443.8	442.6	441.3	424.8
85°	215.0	207.6	191.7	175.8	204.2	232.7	257.3	281.9	279.8	277.8	264.9
87.5°	103.0	102.7	90.6	78.4	90.3	102.3	112.2	122.2	119.7	117.1	110.5
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: P965648

CATALOG NUMBER: NAV-SB4A-740-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2434.0	2425.3	2434.0	2441.0	2448.0	2455.6	2463.2	2472.9	2482.7	2494.7	2506.7
5°	2279.7	2272.5	2279.7	2287.0	2294.3	2303.8	2313.3	2326.8	2340.2	2359.4	2378.6
7.5°	2188.3	2183.4	2188.3	2194.7	2201.3	2212.2	2223.1	2239.1	2255.1	2277.9	2300.7
10°	2164.1	2161.8	2164.1	2169.6	2175.2	2185.5	2195.9	2213.9	2231.7	2259.1	2286.4
12.5°	2203.6	2202.8	2203.6	2208.4	2213.1	2224.6	2236.1	2259.2	2282.3	2317.1	2352.0
15°	2275.1	2274.6	2275.1	2281.2	2287.4	2303.4	2319.5	2354.5	2389.6	2439.2	2488.8
17.5°	2336.3	2335.1	2336.3	2344.2	2352.0	2375.8	2399.6	2451.3	2502.9	2568.6	2634.4
20°	2367.9	2364.8	2367.9	2377.6	2387.3	2417.9	2448.3	2511.6	2574.9	2649.9	2725.1
22.5°	2364.3	2359.7	2364.3	2375.0	2385.8	2418.0	2450.1	2515.4	2580.5	2652.3	2724.0
25°	2324.6	2318.7	2324.6	2334.6	2344.8	2372.6	2400.4	2458.3	2516.3	2575.0	2633.8
27.5°	2256.6	2255.1	2256.6	2261.3	2265.9	2284.6	2303.3	2348.3	2393.3	2435.1	2477.0
30°	2164.4	2165.9	2164.4	2164.4	2164.4	2174.0	2183.6	2215.9	2248.1	2280.1	2312.0
32.5°	2052.6	2054.1	2052.6	2051.6	2050.8	2057.1	2063.3	2089.1	2114.9	2144.3	2173.6
35°	1934.2	1933.2	1934.2	1936.2	1938.3	1947.7	1957.2	1980.9	2004.7	2025.5	2046.4
37.5°	1814.2	1809.1	1814.2	1823.4	1832.5	1849.7	1867.0	1889.0	1910.8	1920.4	1930.1
40°	1700.3	1690.2	1700.3	1717.1	1734.1	1759.1	1784.3	1802.9	1821.4	1819.2	1816.8
42.5°	1588.5	1572.4	1588.5	1613.2	1637.9	1669.2	1700.5	1716.1	1731.7	1720.0	1708.2
45°	1488.5	1469.8	1488.5	1517.5	1546.5	1582.2	1618.0	1632.0	1646.2	1629.2	1612.3
47.5°	1435.5	1417.6	1435.5	1462.3	1489.1	1520.9	1552.7	1562.5	1572.4	1552.9	1533.4
50°	1413.3	1396.0	1413.3	1438.1	1462.9	1488.3	1513.7	1514.1	1514.7	1489.7	1464.7
52.5°	1401.7	1385.8	1401.7	1423.8	1446.1	1466.8	1487.5	1482.1	1476.8	1447.2	1417.6
55°	1387.8	1373.5	1387.8	1407.3	1426.8	1444.8	1462.9	1455.5	1448.1	1416.7	1385.3
57.5°	1361.7	1346.8	1361.7	1381.1	1400.4	1418.6	1436.8	1429.4	1421.9	1390.3	1358.6
60°	1325.3	1309.9	1325.3	1345.2	1365.1	1382.8	1400.7	1392.5	1384.3	1352.5	1320.7
62.5°	1268.9	1250.5	1268.9	1289.9	1310.8	1326.9	1343.0	1335.1	1327.2	1298.1	1268.9
65°	1193.6	1177.7	1193.6	1213.8	1234.1	1249.6	1265.1	1257.1	1249.0	1223.3	1197.7
67.5°	1110.1	1095.7	1110.1	1128.9	1147.8	1161.9	1176.2	1168.4	1160.5	1138.4	1116.2
70°	1021.9	1005.5	1021.9	1040.0	1058.0	1069.6	1081.2	1073.6	1066.0	1046.0	1026.0
72.5°	923.0	907.1	923.0	940.1	957.4	967.0	976.6	967.6	958.6	939.0	919.4
75°	813.6	798.5	813.6	828.1	842.6	847.3	852.0	842.6	833.1	815.3	797.4
77.5°	688.6	676.5	688.6	703.2	717.7	724.5	731.0	722.2	713.4	694.7	676.0
80°	549.6	526.8	549.6	569.3	588.9	591.6	594.5	582.8	571.1	557.0	542.7
82.5°	408.2	393.6	408.2	424.8	441.3	442.6	443.8	423.9	404.1	373.7	343.4
85°	251.9	238.8	251.9	264.9	277.8	279.8	281.9	257.3	232.7	204.2	175.8
87.5°	103.7	97.4	103.7	110.5	117.1	119.7	122.2	112.2	102.3	90.3	78.4
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: P965648

CATALOG NUMBER: NAV-SB4A-740-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2522.2	2537.8	2553.3	2568.8	2586.4	2604.1	2623.7	2643.4	2667.7	2689.5	2712.0
5°	2403.6	2428.5	2456.0	2483.5	2514.5	2545.7	2582.9	2620.0	2662.5	2705.6	2751.2
7.5°	2331.2	2361.7	2396.3	2430.9	2471.9	2512.9	2562.2	2611.6	2666.6	2725.4	2789.0
10°	2320.7	2355.0	2392.4	2429.6	2470.6	2511.6	2563.6	2615.7	2674.8	2747.3	2822.7
12.5°	2387.4	2423.0	2452.1	2481.4	2508.5	2535.7	2578.2	2620.8	2675.9	2752.0	2837.2
15°	2519.7	2550.5	2558.1	2565.7	2562.0	2558.3	2578.6	2599.0	2643.1	2727.4	2826.0
17.5°	2659.2	2684.1	2660.4	2636.6	2591.9	2547.2	2539.8	2532.4	2559.5	2658.7	2777.3
20°	2736.6	2748.1	2698.4	2648.7	2571.0	2493.4	2458.6	2423.7	2430.9	2546.4	2693.4
22.5°	2717.2	2710.2	2645.5	2580.8	2492.1	2403.5	2352.0	2300.4	2286.4	2417.9	2594.9
25°	2610.2	2586.4	2522.7	2459.1	2379.3	2299.7	2240.2	2180.8	2142.9	2277.7	2484.9
27.5°	2450.5	2424.0	2373.0	2321.9	2256.5	2191.0	2133.6	2076.1	2030.0	2152.8	2384.4
30°	2290.5	2268.9	2226.5	2184.2	2129.8	2075.4	2029.7	1984.2	1948.0	2051.0	2300.3
32.5°	2149.6	2125.7	2085.0	2044.4	2000.9	1957.5	1930.6	1903.6	1887.5	1970.6	2227.8
35°	2017.7	1989.0	1948.7	1908.5	1875.5	1842.4	1835.0	1827.6	1834.2	1903.4	2156.6
37.5°	1894.6	1859.1	1819.0	1778.9	1755.2	1731.4	1739.6	1747.8	1772.2	1832.7	2072.7
40°	1775.9	1735.1	1696.4	1657.6	1640.5	1623.4	1641.9	1660.5	1697.9	1752.7	1972.6
42.5°	1664.1	1620.0	1583.2	1546.5	1532.5	1518.5	1543.1	1567.7	1614.9	1665.4	1862.2
45°	1566.6	1520.9	1486.0	1451.2	1439.3	1427.6	1451.5	1475.5	1521.1	1572.4	1745.0
47.5°	1488.3	1443.2	1409.2	1375.0	1364.1	1353.0	1373.1	1393.2	1432.4	1498.6	1652.2
50°	1424.3	1384.0	1351.9	1319.7	1302.4	1285.1	1302.9	1320.7	1366.3	1453.2	1590.6
52.5°	1379.9	1342.2	1312.8	1283.3	1257.5	1231.5	1249.1	1266.7	1330.4	1430.4	1550.0
55°	1352.4	1319.4	1287.6	1255.8	1219.1	1182.3	1210.1	1238.0	1334.0	1427.0	1520.6
57.5°	1325.9	1293.3	1256.0	1218.7	1179.2	1139.6	1180.2	1220.8	1337.6	1419.6	1485.7
60°	1287.5	1254.4	1211.6	1168.7	1134.1	1099.3	1152.0	1204.6	1326.4	1380.5	1432.4
62.5°	1233.6	1198.2	1148.2	1098.3	1076.2	1054.2	1119.9	1185.7	1298.7	1305.3	1339.8
65°	1163.9	1130.1	1076.5	1023.0	1014.5	1006.0	1076.0	1145.9	1232.0	1231.2	1247.5
67.5°	1084.2	1052.2	1002.7	953.2	955.9	958.6	1016.8	1075.0	1123.4	1125.7	1116.6
70°	998.4	970.7	927.2	883.8	893.0	902.2	943.6	985.0	1000.9	1000.9	958.8
72.5°	894.4	869.4	835.3	801.0	814.5	828.0	856.4	884.8	884.6	874.5	814.8
75°	774.8	752.1	726.7	701.3	714.3	727.2	749.2	771.0	774.9	728.6	661.5
77.5°	656.5	637.0	616.4	595.7	608.8	622.0	639.5	657.0	659.1	582.7	517.6
80°	526.3	509.9	492.8	475.6	486.7	497.6	512.4	527.1	527.4	436.1	381.1
82.5°	349.1	354.9	356.3	357.7	365.5	373.3	380.5	387.7	383.3	305.4	264.9
85°	191.7	207.6	215.0	222.4	231.1	239.8	247.5	255.2	249.6	191.7	162.0
87.5°	90.6	102.7	103.0	103.3	105.0	106.6	109.7	112.7	105.6	81.5	69.3
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: P965648

CATALOG NUMBER: NAV-SB4A-740-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3	2671.3
2.5°	2734.6	2758.2	2781.7	2805.1	2828.6	2850.6	2872.7
5°	2796.8	2845.6	2894.5	2943.0	2991.6	3040.3	3088.9
7.5°	2852.7	2924.9	2997.2	3071.4	3145.6	3225.9	3306.2
10°	2898.0	2985.8	3073.6	3171.6	3269.6	3371.2	3472.8
12.5°	2922.4	3025.9	3129.4	3240.5	3351.6	3463.2	3574.8
15°	2924.6	3043.8	3163.0	3283.6	3404.1	3520.5	3636.8
17.5°	2895.9	3034.3	3172.7	3304.2	3435.7	3553.7	3671.7
20°	2840.4	3008.1	3175.8	3320.3	3464.8	3587.5	3710.1
22.5°	2771.9	2975.9	3179.9	3342.0	3504.1	3629.4	3754.7
25°	2692.3	2944.1	3196.1	3381.4	3566.6	3689.3	3812.1
27.5°	2615.9	2922.9	3229.9	3442.9	3655.8	3772.9	3890.0
30°	2549.5	2912.9	3276.2	3522.5	3768.8	3881.9	3995.0
32.5°	2484.9	2900.6	3316.2	3605.6	3895.1	4007.0	4119.1
35°	2409.7	2877.5	3345.5	3700.4	4055.2	4162.5	4269.7
37.5°	2312.7	2837.8	3362.9	3806.4	4250.0	4386.7	4523.4
40°	2192.6	2783.2	3373.9	3941.1	4508.3	4707.5	4906.8
42.5°	2059.0	2726.8	3394.7	4117.3	4839.9	5127.6	5415.2
45°	1917.6	2674.4	3431.3	4349.2	5267.1	5655.0	6043.0
47.5°	1805.8	2631.2	3456.4	4596.2	5736.0	6282.1	6828.2
50°	1727.9	2584.0	3440.0	4825.4	6210.8	7034.2	7857.3
52.5°	1669.7	2504.4	3339.0	4974.2	6609.4	7824.0	9038.7
55°	1614.2	2372.4	3130.5	4941.4	6752.4	8524.3	10296.3
57.5°	1551.8	2186.2	2820.4	4710.6	6601.0	9020.6	11440.3
60°	1484.4	1944.4	2404.5	4281.0	6157.5	9144.6	12131.7
62.5°	1374.3	1655.2	1936.0	3700.1	5464.2	8622.4	11780.6
65°	1263.8	1394.9	1526.0	3107.5	4689.0	7883.5	11078.0
67.5°	1107.5	1144.8	1182.0	2526.9	3871.7	7004.1	10136.4
70°	916.6	906.0	895.3	1989.5	3083.8	6044.5	9005.3
72.5°	754.9	722.7	690.6	1521.0	2351.5	5004.4	7657.5
75°	594.5	565.4	536.3	1103.9	1671.6	3812.0	5952.3
77.5°	452.5	432.7	412.9	748.0	1083.2	2668.1	4252.8
80°	326.0	317.8	309.5	482.0	654.5	1718.9	2783.5
82.5°	224.3	222.6	221.2	296.4	371.9	994.9	1618.0
85°	132.2	133.0	133.8	158.5	183.3	447.5	711.9
87.5°	57.2	57.9	58.6	65.7	72.8	146.6	220.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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