

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: P964222

Luminaire Tested: **NAV-SB3B-835-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964222
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-SB3B-835-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16005.4 lumens
Efficiency: N/A
Efficacy: 146.6 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): 109.2
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

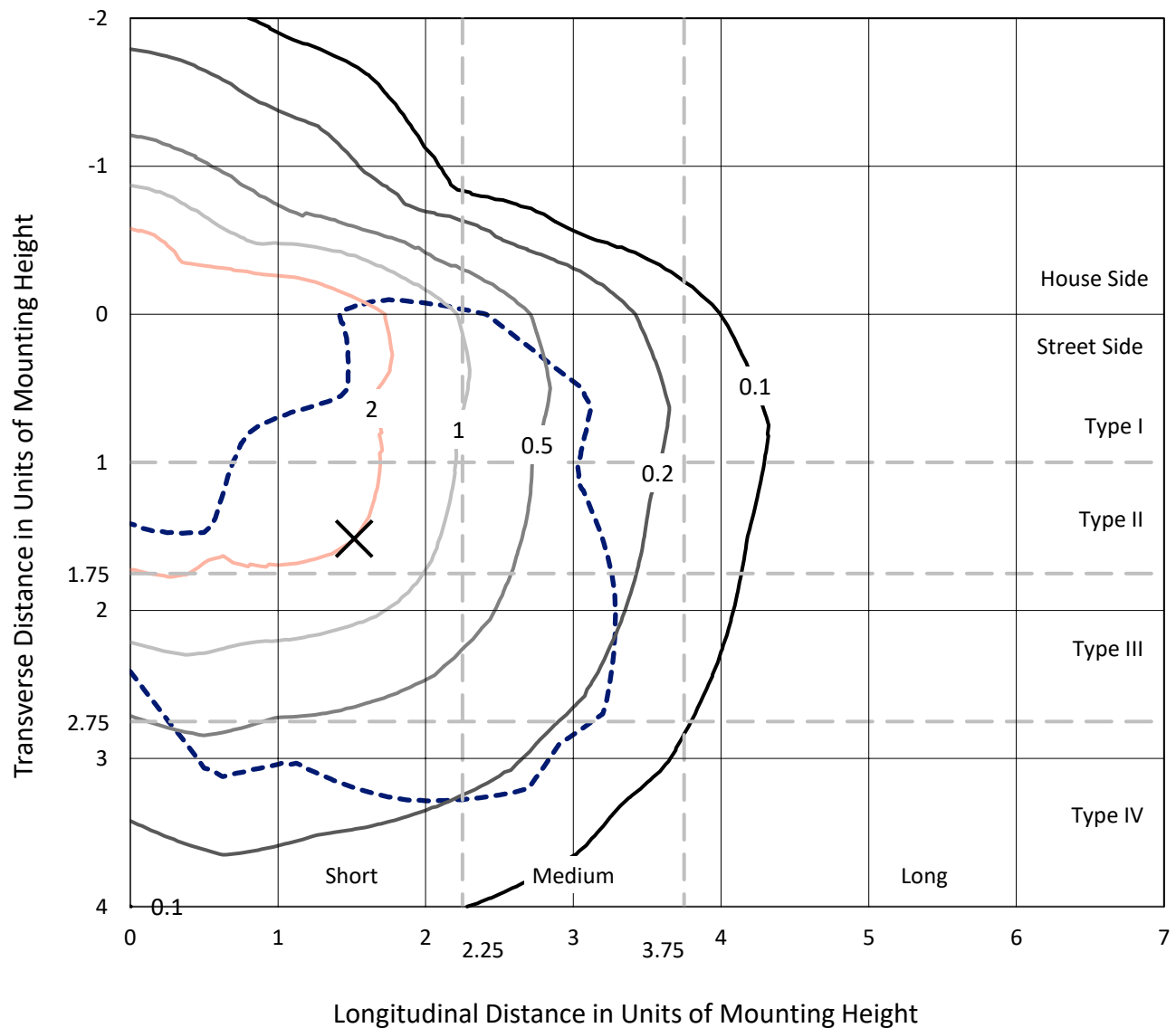


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Iso-Footcandle Lines of Horizontal Illumination

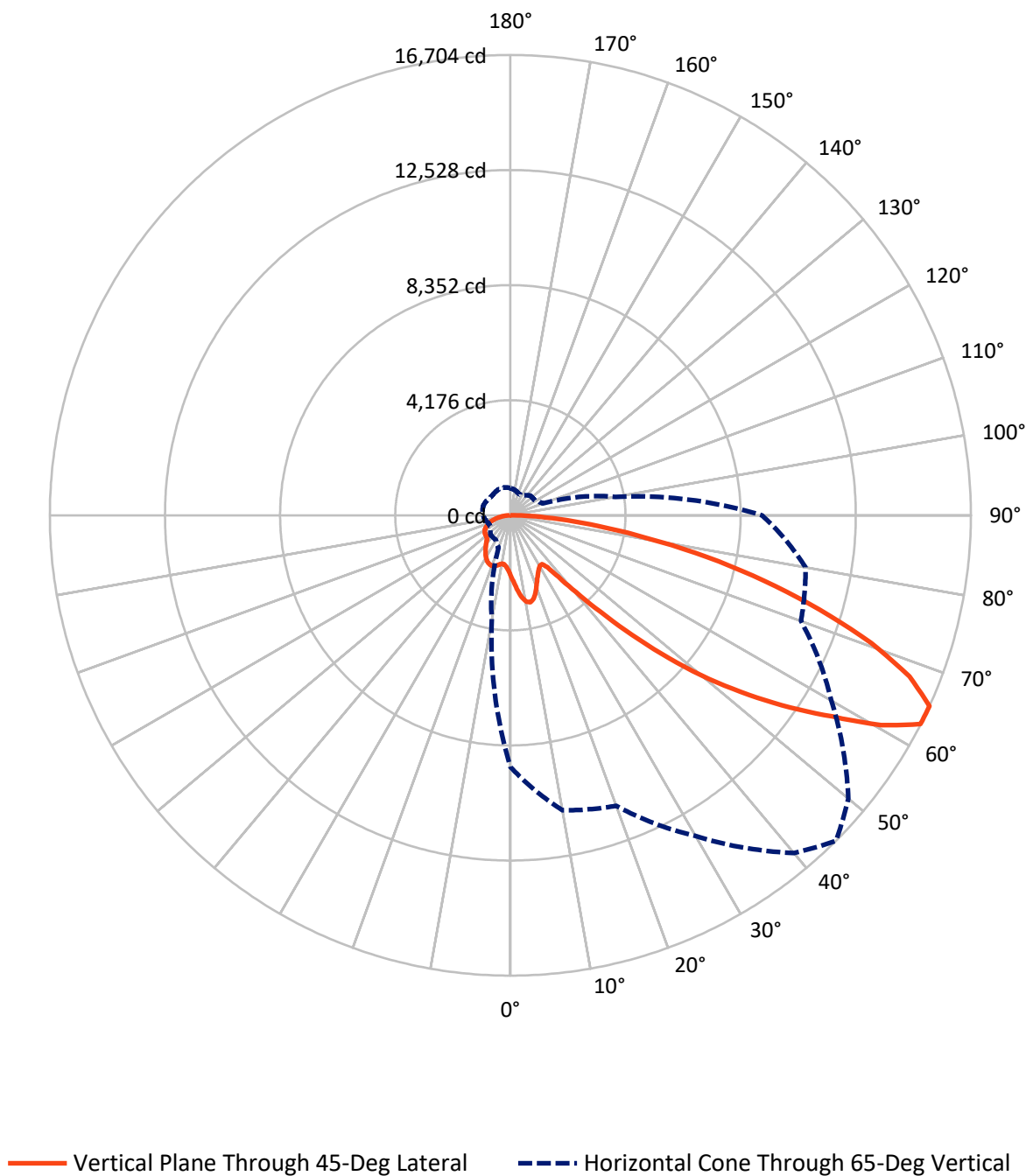
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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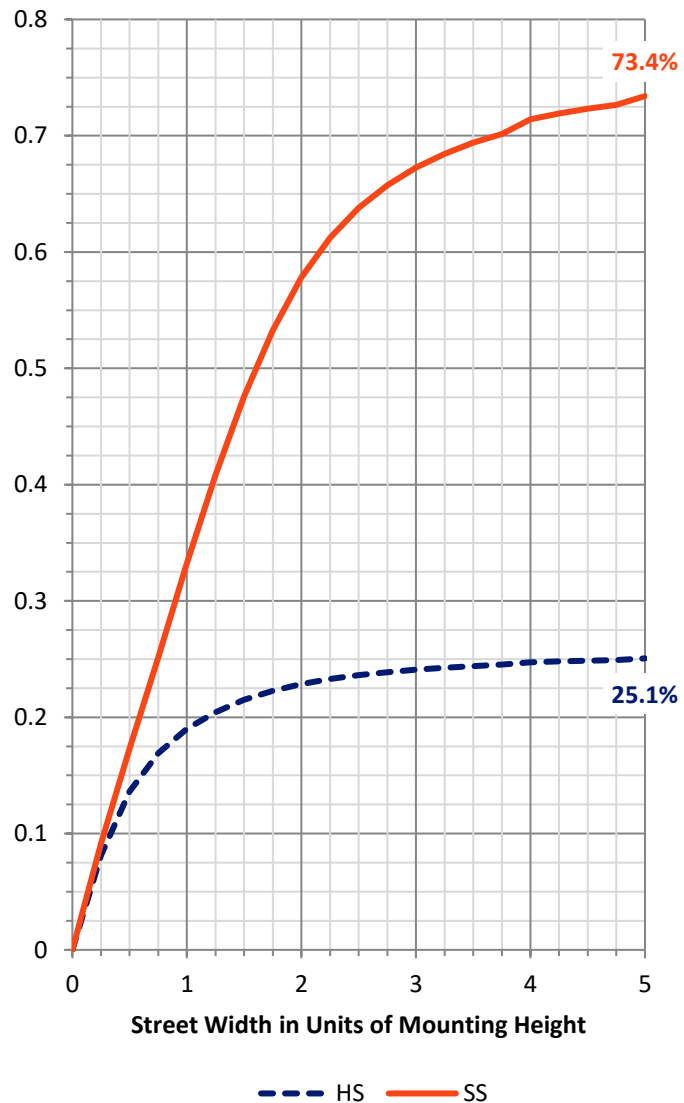
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4067.8	0.0	4067.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	11937.6	0.0	11937.6
	% Fixture	74.6	0.0	74.6
Total	Lumens	16005.4	0.0	16005.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.4
10°-20°	685.4	4.3
20°-30°	1058.7	6.6
30°-40°	1341.6	8.4
40°-50°	2023.4	12.6
50°-60°	3269.2	20.4
60°-70°	4075.6	25.5
70°-80°	2672.5	16.7
80°-90°	660.7	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°	16005.4	100.0
0°-180°	16005.4	100.0

Coefficient of Utilization



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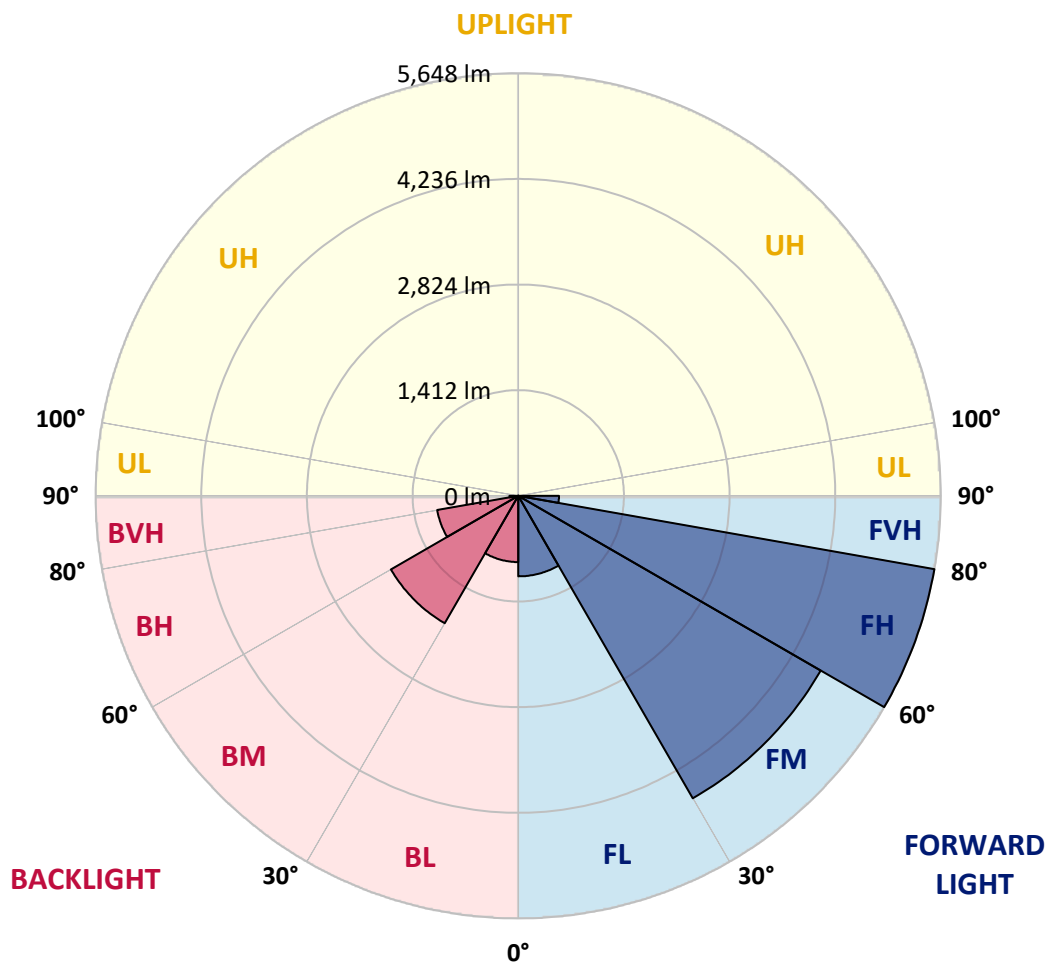
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1076.5	6.7			
FM	(30°-60°)	4668.4	29.2			
FH	(60°-80°)	5648.4	35.3			G3/7500
FVH	(80°-90°)	544.3	3.4			G4/750
BL	(0°-30°)	885.8	5.5	B2/1000		
BM	(30°-60°)	1965.8	12.3	B2/2500		
BH	(60°-80°)	1099.7	6.9	B3/2500		G3/2500
BVH	(80°-90°)	116.4	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°	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2366.8	2375.7	2384.9	2397.6	2410.3	2418.0	2425.6	2429.4	2433.1	2431.4	2433.1
5°	2545.1	2576.3	2607.8	2638.9	2670.0	2686.9	2703.8	2714.0	2724.3	2732.1	2724.3
7.5°	2724.0	2775.1	2826.0	2871.8	2917.8	2945.3	2972.9	2987.9	3002.7	3009.9	3002.7
10°	2861.3	2921.7	2981.9	3035.7	3089.6	3122.1	3154.5	3169.1	3183.5	3189.0	3183.5
12.5°	2945.3	3010.7	3076.0	3124.6	3173.1	3196.8	3220.4	3228.3	3236.3	3237.2	3236.3
15°	2996.5	3052.9	3109.1	3139.7	3170.2	3171.0	3172.0	3163.5	3155.1	3145.1	3155.1
17.5°	3025.2	3063.2	3101.3	3102.0	3102.5	3068.2	3034.0	3002.6	2971.3	2949.1	2971.3
20°	3056.9	3070.1	3083.4	3043.3	3003.1	2927.7	2852.2	2797.2	2742.2	2708.5	2742.2
22.5°	3093.6	3076.1	3058.8	2975.7	2892.5	2781.5	2670.4	2601.7	2533.0	2495.7	2533.0
25°	3140.8	3086.0	3031.0	2904.8	2778.7	2643.9	2509.0	2436.6	2364.6	2329.2	2364.6
27.5°	3205.1	3106.9	3008.7	2841.5	2674.5	2525.0	2375.5	2304.4	2233.4	2200.1	2233.4
30°	3291.6	3145.2	2998.9	2793.2	2587.5	2431.8	2276.0	2210.1	2144.1	2113.0	2144.1
32.5°	3393.8	3193.4	2993.1	2760.3	2527.5	2381.2	2234.8	2183.0	2131.2	2108.8	2131.2
35°	3517.9	3272.7	3027.5	2784.9	2542.5	2440.8	2339.3	2327.2	2315.1	2313.2	2315.1
37.5°	3727.0	3438.5	3149.9	2929.6	2709.1	2702.5	2696.0	2751.2	2806.4	2835.1	2806.4
40°	4042.8	3729.1	3415.3	3251.4	3087.5	3203.2	3318.8	3453.1	3587.4	3654.3	3587.4
42.5°	4461.7	4150.4	3839.1	3744.7	3650.2	3902.6	4154.9	4399.2	4643.5	4786.9	4643.5
45°	4979.0	4699.4	4419.7	4378.0	4336.3	4740.6	5145.0	5546.3	5947.7	6191.3	5947.7
47.5°	5625.9	5353.9	5081.7	5073.3	5064.9	5648.2	6231.2	6818.7	7406.2	7751.3	7406.2
50°	6473.8	6137.8	5801.8	5803.2	5804.7	6556.3	7307.9	8083.6	8859.1	9328.0	8859.1
52.5°	7447.1	7040.3	6633.5	6592.3	6551.1	7449.0	8346.8	9306.4	10265.8	10827.9	10265.8
55°	8483.4	8081.4	7679.4	7519.1	7358.7	8358.0	9357.1	10501.0	11644.9	12313.4	11644.9
57.5°	9425.9	9207.1	8988.0	8666.4	8344.7	9353.7	10362.8	11658.3	12954.1	13783.0	12954.1
60°	9995.6	10335.6	10675.7	10276.2	9876.8	10831.6	11786.5	13173.7	14560.9	15456.8	14560.9
62.5°	9706.3	10635.4	11564.5	11519.5	11474.4	12349.1	13223.8	14543.7	15863.4	16691.5	15863.4
65°	9127.4	9999.4	10871.4	11043.9	11216.4	12328.0	13439.6	14719.4	15999.2	16704.2	15999.2
67.5°	8351.7	9181.0	10010.4	10091.2	10172.1	11330.2	12488.4	13773.7	15059.0	15611.4	15059.0
70°	7419.8	8321.8	9223.9	9260.1	9296.3	10332.0	11367.7	12473.8	13579.8	13886.8	13579.8
72.5°	6309.2	7344.3	8379.6	8405.5	8431.4	9241.8	10052.2	10880.6	11708.9	11739.9	11708.9
75°	4904.2	5975.6	7047.1	7143.2	7239.4	7869.8	8500.3	9083.4	9666.7	9510.4	9666.7
77.5°	3504.0	4504.2	5504.4	5642.0	5779.7	6258.9	6738.1	7151.7	7565.4	7296.9	7565.4
80°	2293.3	3134.8	3976.1	4147.3	4318.3	4680.3	5042.1	5259.3	5476.5	5044.4	5476.5
82.5°	1333.1	1908.3	2483.7	2674.7	2866.0	3115.1	3364.3	3454.9	3545.4	3205.9	3545.4
85°	586.5	891.9	1197.1	1359.7	1522.3	1727.0	1931.6	1983.1	2034.5	1762.6	2034.5
87.5°	181.5	284.2	386.8	477.5	568.2	670.6	773.0	777.4	781.7	656.2	781.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2429.4	2425.6	2418.0	2410.3	2397.6	2384.9	2375.7	2366.8	2348.7	2330.5	2311.2
5°	2714.0	2703.8	2686.9	2670.0	2638.9	2607.8	2576.3	2545.1	2504.9	2464.8	2424.7
7.5°	2987.9	2972.9	2945.3	2917.8	2871.8	2826.0	2775.1	2724.0	2657.8	2591.7	2530.6
10°	3169.1	3154.5	3122.1	3089.6	3035.7	2981.9	2921.7	2861.3	2777.6	2693.9	2613.1
12.5°	3228.3	3220.4	3196.8	3173.1	3124.6	3076.0	3010.7	2945.3	2853.4	2761.5	2669.9
15°	3163.5	3172.0	3171.0	3170.2	3139.7	3109.1	3052.9	2996.5	2900.5	2804.7	2705.4
17.5°	3002.6	3034.0	3068.2	3102.5	3102.0	3101.3	3063.2	3025.2	2927.9	2830.7	2722.4
20°	2797.2	2852.2	2927.7	3003.1	3043.3	3083.4	3070.1	3056.9	2955.8	2854.7	2735.6
22.5°	2601.7	2670.4	2781.5	2892.5	2975.7	3058.8	3076.1	3093.6	2990.3	2887.1	2753.6
25°	2436.6	2509.0	2643.9	2778.7	2904.8	3031.0	3086.0	3140.8	3039.6	2938.6	2786.0
27.5°	2304.4	2375.5	2525.0	2674.5	2841.5	3008.7	3106.9	3205.1	3108.6	3012.1	2836.7
30°	2210.1	2276.0	2431.8	2587.5	2793.2	2998.9	3145.2	3291.6	3198.4	3105.2	2902.3
32.5°	2183.0	2234.8	2381.2	2527.5	2760.3	2993.1	3193.4	3393.8	3301.5	3209.3	2970.8
35°	2327.2	2339.3	2440.8	2542.5	2784.9	3027.5	3272.7	3517.9	3429.6	3341.2	3048.8
37.5°	2751.2	2696.0	2702.5	2709.1	2929.6	3149.9	3438.5	3727.0	3614.3	3501.6	3136.2
40°	3453.1	3318.8	3203.2	3087.5	3251.4	3415.3	3729.1	4042.8	3878.6	3714.5	3247.2
42.5°	4399.2	4154.9	3902.6	3650.2	3744.7	3839.1	4150.4	4461.7	4224.7	3987.8	3392.3
45°	5546.3	5145.0	4740.6	4336.3	4378.0	4419.7	4699.4	4979.0	4659.3	4339.6	3583.4
47.5°	6818.7	6231.2	5648.2	5064.9	5073.3	5081.7	5353.9	5625.9	5176.0	4726.1	3787.0
50°	8083.6	7307.9	6556.3	5804.7	5803.2	5801.8	6137.8	6473.8	5795.6	5117.2	3975.8
52.5°	9306.4	8346.8	7449.0	6551.1	6592.3	6633.5	7040.3	7447.1	6446.4	5445.6	4098.4
55°	10501.0	9357.1	8358.0	7358.7	7519.1	7679.4	8081.4	8483.4	7023.4	5563.4	4071.4
57.5°	11658.3	10362.8	9353.7	8344.7	8666.4	8988.0	9207.1	9425.9	7432.3	5438.6	3881.2
60°	13173.7	11786.5	10831.6	9876.8	10276.2	10675.7	10335.6	9995.6	7534.5	5073.3	3527.2
62.5°	14543.7	13223.8	12349.1	11474.4	11519.5	11564.5	10635.4	9706.3	7104.2	4502.1	3048.7
65°	14719.4	13439.6	12328.0	11216.4	11043.9	10871.4	9999.4	9127.4	6495.4	3863.3	2560.3
67.5°	13773.7	12488.4	11330.2	10172.1	10091.2	10010.4	9181.0	8351.7	5770.9	3190.0	2082.0
70°	12473.8	11367.7	10332.0	9296.3	9260.1	9223.9	8321.8	7419.8	4980.3	2540.8	1639.3
72.5°	10880.6	10052.2	9241.8	8431.4	8405.5	8379.6	7344.3	6309.2	4123.3	1937.4	1253.2
75°	9083.4	8500.3	7869.8	7239.4	7143.2	7047.1	5975.6	4904.2	3140.8	1377.3	909.6
77.5°	7151.7	6738.1	6258.9	5779.7	5642.0	5504.4	4504.2	3504.0	2198.2	892.5	616.3
80°	5259.3	5042.1	4680.3	4318.3	4147.3	3976.1	3134.8	2293.3	1416.3	539.3	397.1
82.5°	3454.9	3364.3	3115.1	2866.0	2674.7	2483.7	1908.3	1333.1	819.7	306.4	244.3
85°	1983.1	1931.6	1727.0	1522.3	1359.7	1197.1	891.9	586.5	368.7	151.0	130.6
87.5°	777.4	773.0	670.6	568.2	477.5	386.8	284.2	181.5	120.7	60.0	54.1
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°	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2291.9	2272.5	2253.1	2234.5	2215.9	2197.9	2177.9	2161.7	2145.5	2131.0	2116.4
5°	2384.9	2344.5	2304.3	2266.8	2229.2	2193.7	2158.6	2128.1	2097.5	2071.7	2046.2
7.5°	2469.4	2409.9	2350.3	2297.9	2245.5	2197.1	2151.7	2111.0	2070.4	2036.6	2002.8
10°	2532.4	2460.1	2387.7	2325.7	2263.5	2203.9	2155.1	2112.2	2069.3	2035.5	2001.7
12.5°	2578.4	2493.1	2407.8	2337.6	2267.4	2204.7	2159.4	2124.2	2089.3	2066.8	2044.5
15°	2606.1	2507.9	2409.7	2328.4	2247.1	2177.6	2141.3	2124.5	2107.8	2110.9	2113.9
17.5°	2614.1	2500.0	2386.0	2288.3	2190.5	2108.8	2086.5	2092.6	2098.7	2135.5	2172.3
20°	2616.5	2478.3	2340.2	2219.1	2098.0	2002.8	1996.9	2025.6	2054.3	2118.3	2182.3
22.5°	2619.9	2451.9	2283.8	2137.9	1992.1	1883.7	1895.3	1937.8	1980.3	2053.3	2126.4
25°	2633.3	2425.7	2218.2	2047.3	1876.6	1765.6	1796.7	1845.7	1894.7	1960.3	2026.0
27.5°	2661.1	2408.2	2155.3	1964.5	1773.7	1672.6	1710.6	1757.9	1805.2	1859.1	1913.1
30°	2699.3	2400.0	2100.5	1895.2	1689.9	1605.0	1634.9	1672.4	1710.0	1754.8	1799.6
32.5°	2732.2	2389.9	2047.3	1835.6	1623.6	1555.2	1568.5	1590.7	1612.9	1648.6	1684.5
35°	2756.4	2370.8	1985.3	1776.8	1568.4	1511.3	1505.8	1511.9	1518.0	1545.4	1572.6
37.5°	2770.8	2338.1	1905.5	1707.8	1510.0	1460.2	1440.1	1433.4	1426.6	1446.2	1465.7
40°	2779.8	2293.1	1806.5	1625.3	1444.1	1399.0	1368.2	1352.9	1337.6	1351.7	1365.8
42.5°	2796.9	2246.7	1696.5	1534.3	1372.2	1330.6	1291.7	1271.4	1251.2	1262.7	1274.3
45°	2827.2	2203.5	1579.9	1437.8	1295.5	1253.3	1215.8	1196.0	1176.3	1185.9	1195.7
47.5°	2847.8	2167.9	1487.9	1361.3	1234.7	1180.3	1147.9	1131.4	1114.8	1123.9	1132.9
50°	2834.3	2129.0	1423.7	1310.6	1197.4	1125.8	1088.2	1073.5	1058.9	1073.1	1087.3
52.5°	2751.1	2063.4	1375.8	1277.1	1178.5	1096.2	1043.7	1029.2	1014.7	1036.1	1057.4
55°	2579.2	1954.6	1329.9	1252.9	1175.8	1099.2	1020.1	997.0	974.2	1004.5	1034.7
57.5°	2323.8	1801.2	1278.7	1224.2	1169.7	1102.1	1005.8	972.4	939.0	971.6	1004.2
60°	1981.1	1602.1	1223.0	1180.3	1137.4	1092.9	992.5	949.1	905.8	934.4	963.0
62.5°	1595.2	1363.8	1132.3	1103.9	1075.5	1070.0	976.9	922.7	868.6	886.7	905.0
65°	1257.4	1149.3	1041.3	1027.9	1014.4	1015.2	944.2	886.6	828.9	835.9	842.9
67.5°	974.0	943.3	912.6	920.0	927.5	925.6	885.8	837.8	789.9	787.6	785.5
70°	737.7	746.5	755.2	790.0	824.7	824.7	811.6	777.5	743.3	735.7	728.2
72.5°	569.1	595.5	622.0	671.4	720.6	728.9	729.0	705.6	682.2	671.1	660.0
75°	441.9	465.9	489.8	545.1	600.3	638.5	635.3	617.3	599.2	588.6	577.8
77.5°	340.2	356.5	372.9	426.5	480.1	543.0	541.3	527.0	512.5	501.6	490.9
80°	255.0	261.8	268.5	314.0	359.4	434.5	434.3	422.2	410.0	401.0	391.9
82.5°	182.2	183.5	184.8	218.2	251.6	315.9	319.4	313.4	307.6	301.1	294.8
85°	110.2	109.6	109.0	133.5	158.0	205.6	210.3	204.0	197.6	190.4	183.3
87.5°	48.3	47.8	47.2	57.1	67.1	87.0	92.9	90.4	87.8	86.5	85.2
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: P964222

CATALOG NUMBER: NAV-SB3B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2103.7	2090.9	2078.1	2065.4	2055.4	2045.5	2037.5	2029.4	2023.1	2016.9	2011.2
5°	2023.6	2000.9	1980.4	1959.8	1944.0	1928.1	1917.1	1906.0	1898.1	1890.3	1884.3
7.5°	1974.4	1945.9	1920.6	1895.5	1876.8	1858.0	1844.8	1831.7	1822.7	1813.6	1808.2
10°	1971.1	1940.3	1912.0	1883.7	1861.3	1838.7	1824.1	1809.2	1800.6	1792.1	1787.6
12.5°	2020.3	1996.3	1967.0	1937.8	1909.1	1880.4	1861.4	1842.3	1832.8	1823.4	1819.5
15°	2107.6	2101.4	2075.9	2050.5	2009.7	1968.8	1939.9	1911.0	1897.8	1884.6	1879.5
17.5°	2192.0	2211.4	2190.9	2170.4	2116.3	2062.2	2019.7	1977.1	1957.4	1937.8	1931.4
20°	2223.2	2264.2	2254.8	2245.3	2183.4	2121.4	2069.3	2017.2	1992.1	1967.0	1958.9
22.5°	2179.7	2233.0	2238.7	2244.3	2185.3	2126.2	2072.4	2018.6	1992.2	1965.6	1956.8
25°	2078.5	2131.0	2150.6	2170.0	2121.5	2073.2	2025.4	1977.7	1954.8	1931.9	1923.5
27.5°	1955.1	1997.2	2018.9	2040.9	2006.3	1971.8	1934.8	1897.7	1882.3	1866.8	1863.0
30°	1834.4	1869.4	1887.1	1904.9	1878.6	1852.3	1825.7	1799.1	1791.2	1783.3	1783.3
32.5°	1717.9	1751.4	1771.1	1790.9	1766.7	1742.5	1721.3	1700.1	1694.9	1689.7	1690.4
35°	1605.7	1638.9	1662.4	1686.1	1668.9	1651.8	1632.2	1612.6	1604.8	1597.1	1595.3
37.5°	1498.8	1531.9	1561.1	1590.3	1582.3	1574.4	1556.4	1538.3	1524.1	1509.8	1502.3
40°	1397.7	1429.7	1463.3	1496.9	1498.9	1500.7	1485.4	1470.2	1449.5	1428.7	1414.8
42.5°	1304.5	1334.8	1371.1	1407.4	1417.2	1426.9	1413.9	1401.1	1375.3	1349.6	1329.2
45°	1224.5	1253.2	1290.8	1328.5	1342.4	1356.4	1344.7	1333.1	1303.6	1274.3	1250.3
47.5°	1161.1	1189.1	1226.3	1263.4	1279.5	1295.5	1287.4	1279.3	1253.2	1226.9	1204.8
50°	1113.9	1140.3	1173.6	1206.8	1227.4	1248.0	1247.5	1247.2	1226.3	1205.3	1184.9
52.5°	1081.7	1106.0	1136.9	1168.0	1192.4	1216.8	1221.2	1225.6	1208.6	1191.5	1173.1
55°	1060.9	1087.1	1114.3	1141.4	1167.3	1193.2	1199.2	1205.3	1190.4	1175.6	1159.6
57.5°	1034.9	1065.7	1092.5	1119.4	1145.5	1171.6	1177.7	1183.9	1168.8	1153.8	1138.0
60°	998.2	1033.5	1060.9	1088.2	1114.4	1140.5	1147.3	1154.0	1139.4	1124.7	1108.3
62.5°	946.1	987.3	1016.4	1045.5	1069.5	1093.5	1100.0	1106.5	1093.3	1080.0	1062.8
65°	886.9	931.1	959.0	986.9	1008.0	1029.1	1035.8	1042.3	1029.6	1016.8	1000.1
67.5°	826.2	866.9	893.4	919.7	938.0	956.2	962.7	969.1	957.4	945.8	930.2
70°	763.9	799.8	822.6	845.4	861.8	878.3	884.6	890.8	881.3	871.8	856.9
72.5°	688.2	716.4	737.0	757.6	773.7	789.9	797.2	804.7	796.7	788.8	774.6
75°	598.8	619.7	638.4	657.0	671.8	686.4	694.2	702.0	698.1	694.2	682.3
77.5°	507.9	524.9	540.9	557.0	572.5	587.8	595.1	602.3	597.0	591.3	579.3
80°	406.1	420.1	433.7	447.2	458.9	470.6	480.2	489.8	487.5	485.2	469.0
82.5°	293.6	292.3	287.6	282.9	307.9	332.9	349.3	365.7	364.7	363.6	349.9
85°	177.2	171.0	158.0	144.8	168.2	191.7	212.0	232.3	230.5	228.9	218.2
87.5°	84.9	84.7	74.6	64.6	74.4	84.3	92.5	100.7	98.6	96.5	91.0
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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CATALOG NUMBER: NAV-SB3B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2005.4	1998.2	2005.4	2011.2	2016.9	2023.1	2029.4	2037.5	2045.5	2055.4	2065.4
5°	1878.3	1872.4	1878.3	1884.3	1890.3	1898.1	1906.0	1917.1	1928.1	1944.0	1959.8
7.5°	1803.0	1798.9	1803.0	1808.2	1813.6	1822.7	1831.7	1844.8	1858.0	1876.8	1895.5
10°	1783.0	1781.1	1783.0	1787.6	1792.1	1800.6	1809.2	1824.1	1838.7	1861.3	1883.7
12.5°	1815.6	1815.0	1815.6	1819.5	1823.4	1832.8	1842.3	1861.4	1880.4	1909.1	1937.8
15°	1874.4	1874.0	1874.4	1879.5	1884.6	1897.8	1911.0	1939.9	1968.8	2009.7	2050.5
17.5°	1924.8	1923.8	1924.8	1931.4	1937.8	1957.4	1977.1	2019.7	2062.2	2116.3	2170.4
20°	1950.9	1948.3	1950.9	1958.9	1967.0	1992.1	2017.2	2069.3	2121.4	2183.4	2245.3
22.5°	1947.9	1944.1	1947.9	1956.8	1965.6	1992.2	2018.6	2072.4	2126.2	2185.3	2244.3
25°	1915.2	1910.4	1915.2	1923.5	1931.9	1954.8	1977.7	2025.4	2073.2	2121.5	2170.0
27.5°	1859.2	1858.0	1859.2	1863.0	1866.8	1882.3	1897.7	1934.8	1971.8	2006.3	2040.9
30°	1783.3	1784.5	1783.3	1783.3	1783.3	1791.2	1799.1	1825.7	1852.3	1878.6	1904.9
32.5°	1691.1	1692.5	1691.1	1690.4	1689.7	1694.9	1700.1	1721.3	1742.5	1766.7	1790.9
35°	1593.7	1592.8	1593.7	1595.3	1597.1	1604.8	1612.6	1632.2	1651.8	1668.9	1686.1
37.5°	1494.9	1490.7	1494.9	1502.3	1509.8	1524.1	1538.3	1556.4	1574.4	1582.3	1590.3
40°	1401.0	1392.7	1401.0	1414.8	1428.7	1449.5	1470.2	1485.4	1500.7	1498.9	1496.9
42.5°	1308.8	1295.5	1308.8	1329.2	1349.6	1375.3	1401.1	1413.9	1426.9	1417.2	1407.4
45°	1226.4	1211.0	1226.4	1250.3	1274.3	1303.6	1333.1	1344.7	1356.4	1342.4	1328.5
47.5°	1182.7	1168.0	1182.7	1204.8	1226.9	1253.2	1279.3	1287.4	1295.5	1279.5	1263.4
50°	1164.5	1150.3	1164.5	1184.9	1205.3	1226.3	1247.2	1247.5	1248.0	1227.4	1206.8
52.5°	1154.9	1141.8	1154.9	1173.1	1191.5	1208.6	1225.6	1221.2	1216.8	1192.4	1168.0
55°	1143.5	1131.7	1143.5	1159.6	1175.6	1190.4	1205.3	1199.2	1193.2	1167.3	1141.4
57.5°	1122.0	1109.8	1122.0	1138.0	1153.8	1168.8	1183.9	1177.7	1171.6	1145.5	1119.4
60°	1092.0	1079.3	1092.0	1108.3	1124.7	1139.4	1154.0	1147.3	1140.5	1114.4	1088.2
62.5°	1045.5	1030.3	1045.5	1062.8	1080.0	1093.3	1106.5	1100.0	1093.5	1069.5	1045.5
65°	983.5	970.4	983.5	1000.1	1016.8	1029.6	1042.3	1035.8	1029.1	1008.0	986.9
67.5°	914.6	902.8	914.6	930.2	945.8	957.4	969.1	962.7	956.2	938.0	919.7
70°	842.0	828.5	842.0	856.9	871.8	881.3	890.8	884.6	878.3	861.8	845.4
72.5°	760.6	747.4	760.6	774.6	788.8	796.7	804.7	797.2	789.9	773.7	757.6
75°	670.3	657.9	670.3	682.3	694.2	698.1	702.0	694.2	686.4	671.8	657.0
77.5°	567.3	557.4	567.3	579.3	591.3	597.0	602.3	595.1	587.8	572.5	557.0
80°	452.8	434.1	452.8	469.0	485.2	487.5	489.8	480.2	470.6	458.9	447.2
82.5°	336.3	324.3	336.3	349.9	363.6	364.7	365.7	349.3	332.9	307.9	282.9
85°	207.6	196.8	207.6	218.2	228.9	230.5	232.3	212.0	191.7	168.2	144.8
87.5°	85.5	80.3	85.5	91.0	96.5	98.6	100.7	92.5	84.3	74.4	64.6
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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CATALOG NUMBER: NAV-SB3B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2078.1	2090.9	2103.7	2116.4	2131.0	2145.5	2161.7	2177.9	2197.9	2215.9	2234.5
5°	1980.4	2000.9	2023.6	2046.2	2071.7	2097.5	2128.1	2158.6	2193.7	2229.2	2266.8
7.5°	1920.6	1945.9	1974.4	2002.8	2036.6	2070.4	2111.0	2151.7	2197.1	2245.5	2297.9
10°	1912.0	1940.3	1971.1	2001.7	2035.5	2069.3	2112.2	2155.1	2203.9	2263.5	2325.7
12.5°	1967.0	1996.3	2020.3	2044.5	2066.8	2089.3	2124.2	2159.4	2204.7	2267.4	2337.6
15°	2075.9	2101.4	2107.6	2113.9	2110.9	2107.8	2124.5	2141.3	2177.6	2247.1	2328.4
17.5°	2190.9	2211.4	2192.0	2172.3	2135.5	2098.7	2092.6	2086.5	2108.8	2190.5	2288.3
20°	2254.8	2264.2	2223.2	2182.3	2118.3	2054.3	2025.6	1996.9	2002.8	2098.0	2219.1
22.5°	2238.7	2233.0	2179.7	2126.4	2053.3	1980.3	1937.8	1895.3	1883.7	1992.1	2137.9
25°	2150.6	2131.0	2078.5	2026.0	1960.3	1894.7	1845.7	1796.7	1765.6	1876.6	2047.3
27.5°	2018.9	1997.2	1955.1	1913.1	1859.1	1805.2	1757.9	1710.6	1672.6	1773.7	1964.5
30°	1887.1	1869.4	1834.4	1799.6	1754.8	1710.0	1672.4	1634.9	1605.0	1689.9	1895.2
32.5°	1771.1	1751.4	1717.9	1684.5	1648.6	1612.9	1590.7	1568.5	1555.2	1623.6	1835.6
35°	1662.4	1638.9	1605.7	1572.6	1545.4	1518.0	1511.9	1505.8	1511.3	1568.4	1776.8
37.5°	1561.1	1531.9	1498.8	1465.7	1446.2	1426.6	1433.4	1440.1	1460.2	1510.0	1707.8
40°	1463.3	1429.7	1397.7	1365.8	1351.7	1337.6	1352.9	1368.2	1399.0	1444.1	1625.3
42.5°	1371.1	1334.8	1304.5	1274.3	1262.7	1251.2	1271.4	1291.7	1330.6	1372.2	1534.3
45°	1290.8	1253.2	1224.5	1195.7	1185.9	1176.3	1196.0	1215.8	1253.3	1295.5	1437.8
47.5°	1226.3	1189.1	1161.1	1132.9	1123.9	1114.8	1131.4	1147.9	1180.3	1234.7	1361.3
50°	1173.6	1140.3	1113.9	1087.3	1073.1	1058.9	1073.5	1088.2	1125.8	1197.4	1310.6
52.5°	1136.9	1106.0	1081.7	1057.4	1036.1	1014.7	1029.2	1043.7	1096.2	1178.5	1277.1
55°	1114.3	1087.1	1060.9	1034.7	1004.5	974.2	997.0	1020.1	1099.2	1175.8	1252.9
57.5°	1092.5	1065.7	1034.9	1004.2	971.6	939.0	972.4	1005.8	1102.1	1169.7	1224.2
60°	1060.9	1033.5	998.2	963.0	934.4	905.8	949.1	992.5	1092.9	1137.4	1180.3
62.5°	1016.4	987.3	946.1	905.0	886.7	868.6	922.7	976.9	1070.0	1075.5	1103.9
65°	959.0	931.1	886.9	842.9	835.9	828.9	886.6	944.2	1015.2	1014.4	1027.9
67.5°	893.4	866.9	826.2	785.5	787.6	789.9	837.8	885.8	925.6	927.5	920.0
70°	822.6	799.8	763.9	728.2	735.7	743.3	777.5	811.6	824.7	824.7	790.0
72.5°	737.0	716.4	688.2	660.0	671.1	682.2	705.6	729.0	728.9	720.6	671.4
75°	638.4	619.7	598.8	577.8	588.6	599.2	617.3	635.3	638.5	600.3	545.1
77.5°	540.9	524.9	507.9	490.9	501.6	512.5	527.0	541.3	543.0	480.1	426.5
80°	433.7	420.1	406.1	391.9	401.0	410.0	422.2	434.3	434.5	359.4	314.0
82.5°	287.6	292.3	293.6	294.8	301.1	307.6	313.4	319.4	315.9	251.6	218.2
85°	158.0	171.0	177.2	183.3	190.4	197.6	204.0	210.3	205.6	158.0	133.5
87.5°	74.6	84.7	84.9	85.2	86.5	87.8	90.4	92.9	87.0	67.1	57.1
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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CATALOG NUMBER: NAV-SB3B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9	2200.9
2.5°	2253.1	2272.5	2291.9	2311.2	2330.5	2348.7	2366.8
5°	2304.3	2344.5	2384.9	2424.7	2464.8	2504.9	2545.1
7.5°	2350.3	2409.9	2469.4	2530.6	2591.7	2657.8	2724.0
10°	2387.7	2460.1	2532.4	2613.1	2693.9	2777.6	2861.3
12.5°	2407.8	2493.1	2578.4	2669.9	2761.5	2853.4	2945.3
15°	2409.7	2507.9	2606.1	2705.4	2804.7	2900.5	2996.5
17.5°	2386.0	2500.0	2614.1	2722.4	2830.7	2927.9	3025.2
20°	2340.2	2478.3	2616.5	2735.6	2854.7	2955.8	3056.9
22.5°	2283.8	2451.9	2619.9	2753.6	2887.1	2990.3	3093.6
25°	2218.2	2425.7	2633.3	2786.0	2938.6	3039.6	3140.8
27.5°	2155.3	2408.2	2661.1	2836.7	3012.1	3108.6	3205.1
30°	2100.5	2400.0	2699.3	2902.3	3105.2	3198.4	3291.6
32.5°	2047.3	2389.9	2732.2	2970.8	3209.3	3301.5	3393.8
35°	1985.3	2370.8	2756.4	3048.8	3341.2	3429.6	3517.9
37.5°	1905.5	2338.1	2770.8	3136.2	3501.6	3614.3	3727.0
40°	1806.5	2293.1	2779.8	3247.2	3714.5	3878.6	4042.8
42.5°	1696.5	2246.7	2796.9	3392.3	3987.8	4224.7	4461.7
45°	1579.9	2203.5	2827.2	3583.4	4339.6	4659.3	4979.0
47.5°	1487.9	2167.9	2847.8	3787.0	4726.1	5176.0	5625.9
50°	1423.7	2129.0	2834.3	3975.8	5117.2	5795.6	6473.8
52.5°	1375.8	2063.4	2751.1	4098.4	5445.6	6446.4	7447.1
55°	1329.9	1954.6	2579.2	4071.4	5563.4	7023.4	8483.4
57.5°	1278.7	1801.2	2323.8	3881.2	5438.6	7432.3	9425.9
60°	1223.0	1602.1	1981.1	3527.2	5073.3	7534.5	9995.6
62.5°	1132.3	1363.8	1595.2	3048.7	4502.1	7104.2	9706.3
65°	1041.3	1149.3	1257.4	2560.3	3863.3	6495.4	9127.4
67.5°	912.6	943.3	974.0	2082.0	3190.0	5770.9	8351.7
70°	755.2	746.5	737.7	1639.3	2540.8	4980.3	7419.8
72.5°	622.0	595.5	569.1	1253.2	1937.4	4123.3	6309.2
75°	489.8	465.9	441.9	909.6	1377.3	3140.8	4904.2
77.5°	372.9	356.5	340.2	616.3	892.5	2198.2	3504.0
80°	268.5	261.8	255.0	397.1	539.3	1416.3	2293.3
82.5°	184.8	183.5	182.2	244.3	306.4	819.7	1333.1
85°	109.0	109.6	110.2	130.6	151.0	368.7	586.5
87.5°	47.2	47.8	48.3	54.1	60.0	120.7	181.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)