

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: P964718

Luminaire Tested: **NAV-SB3C-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964718
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-SB3C-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20620.9 lumens
Efficiency: N/A
Efficacy: 138.3 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): 149.1
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



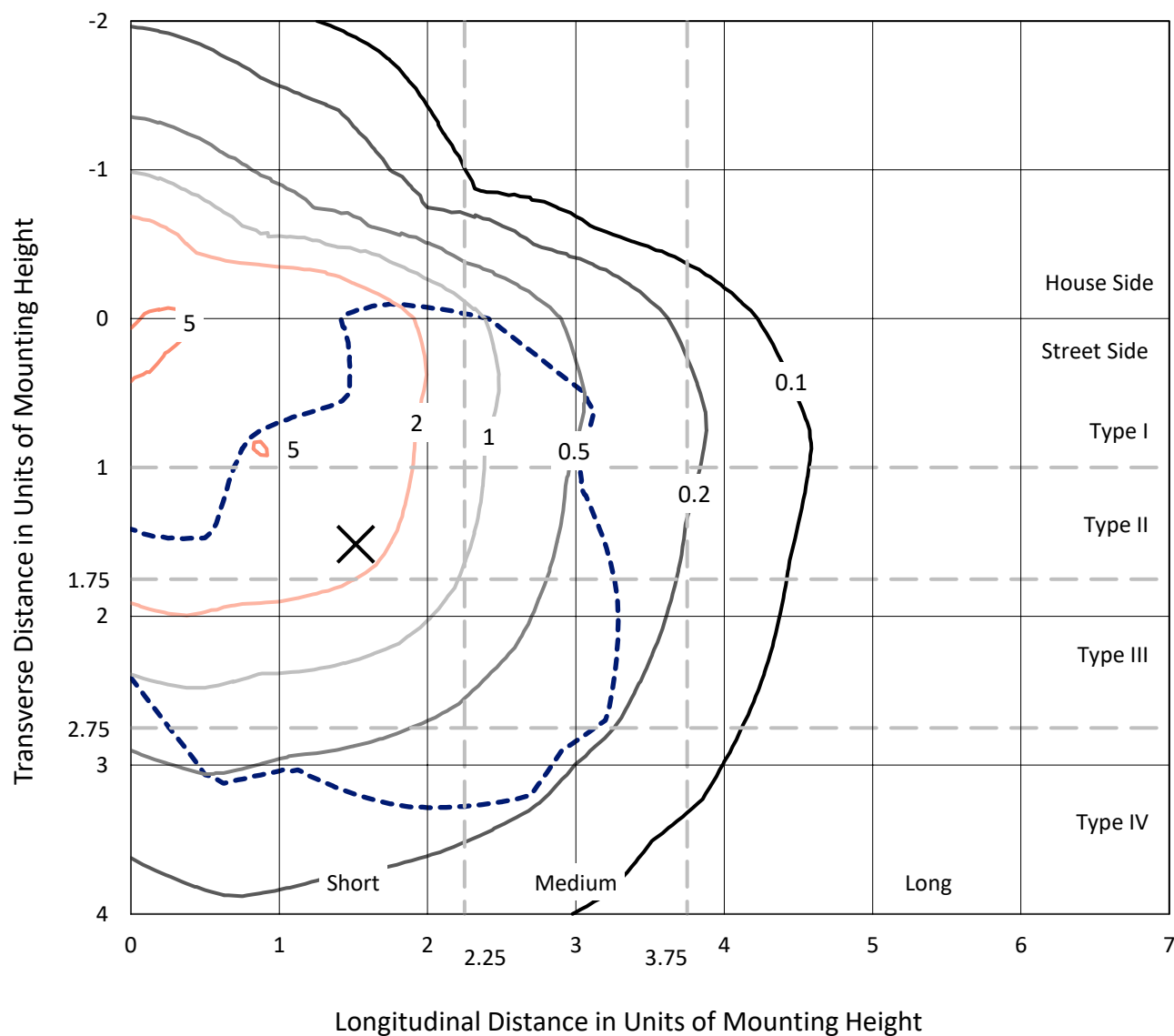
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

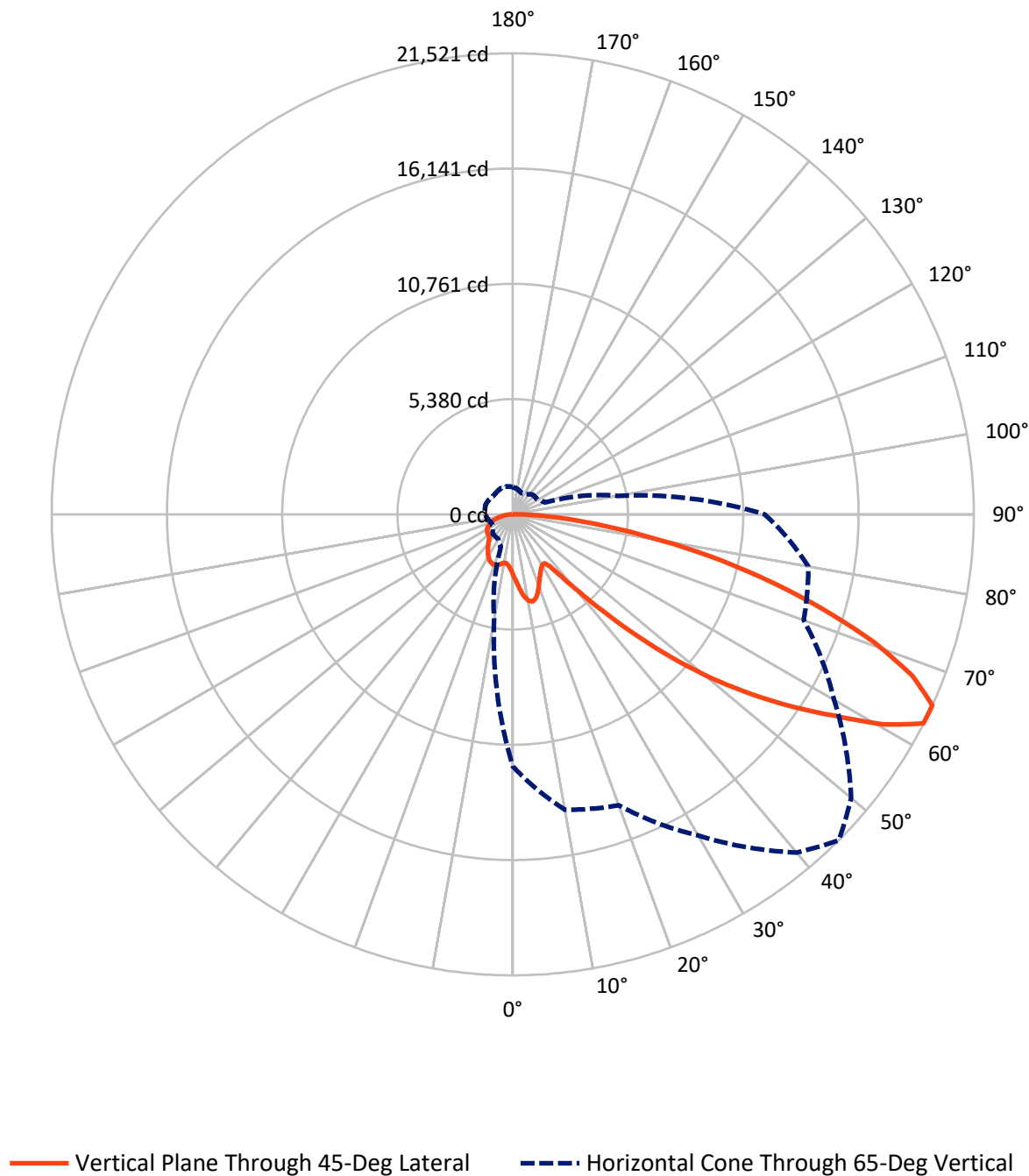


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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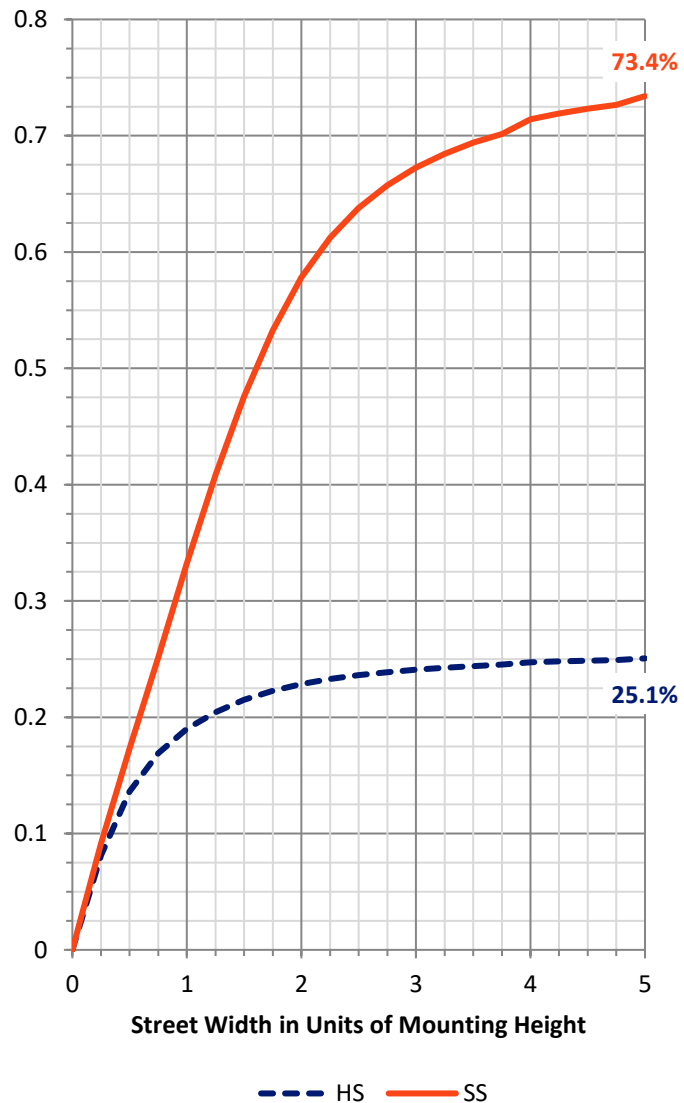
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5240.8	0.0	5240.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	15380.1	0.0	15380.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	20620.9	0.0	20620.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	1.4
10°-20°	883.0	4.3
20°-30°	1363.9	6.6
30°-40°	1728.5	8.4
40°-50°	2607.0	12.6
50°-60°	4211.9	20.4
60°-70°	5250.8	25.5
70°-80°	3443.2	16.7
80°-90°	851.3	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°	20620.9	100.0
0°-180°	20620.9	100.0

Coefficient of Utilization



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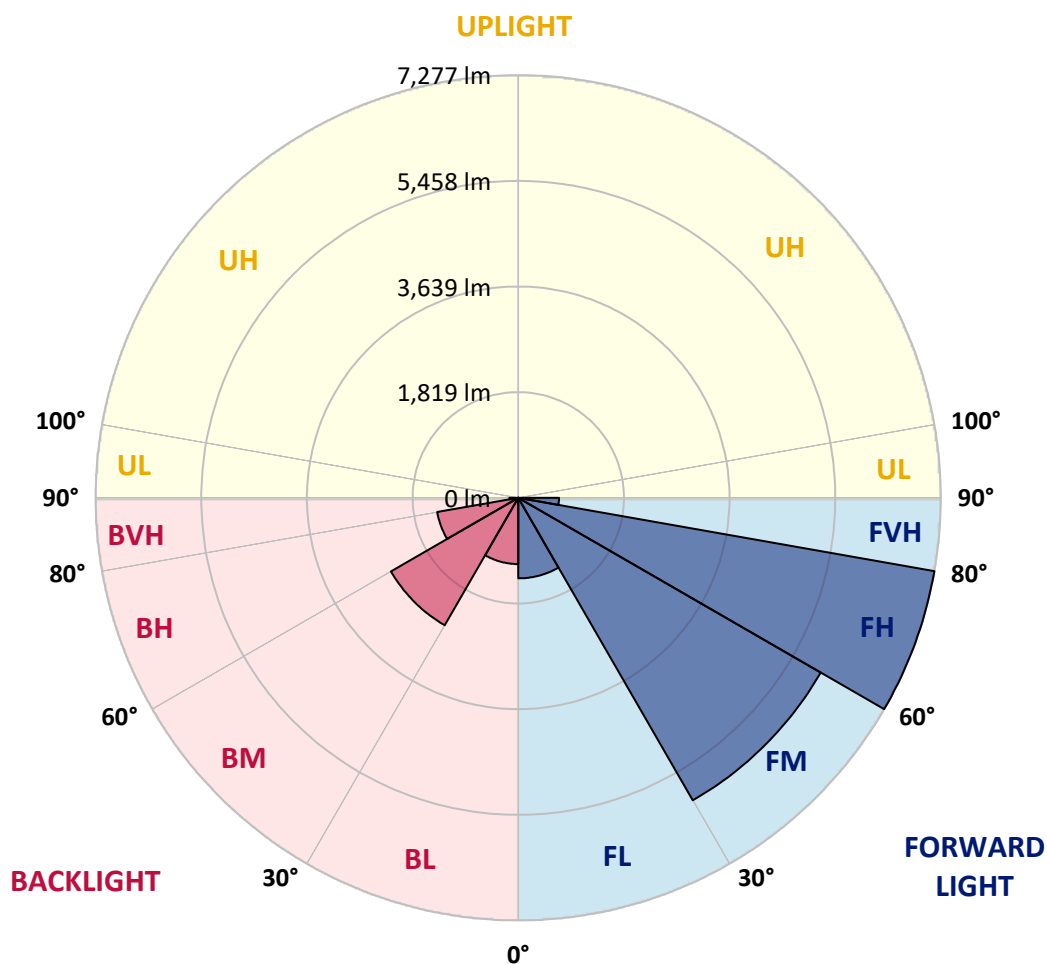
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1387.0	6.7			
FM	(30°-60°)	6014.7	29.2			
FH	(60°-80°)	7277.2	35.3			G3/7500
FVH	(80°-90°)	701.2	3.4			G4/750
BL	(0°-30°)	1141.2	5.5	B3/2500		
BM	(30°-60°)	2532.7	12.3	B3/5000		
BH	(60°-80°)	1416.9	6.9	B3/2500		G3/2500
BVH	(80°-90°)	150.0	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°	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6
2.5°	3049.4	3060.9	3072.5	3088.9	3105.4	3115.2	3125.0	3129.8	3134.8	3132.6	3134.8
5°	3279.0	3319.4	3359.8	3399.8	3440.0	3461.7	3483.6	3496.7	3509.9	3520.0	3509.9
7.5°	3509.6	3575.3	3641.0	3700.0	3759.1	3794.8	3830.3	3849.6	3868.7	3878.0	3868.7
10°	3686.4	3764.1	3841.8	3911.1	3980.5	4022.4	4064.2	4083.0	4101.5	4108.6	4101.5
12.5°	3794.8	3878.9	3963.1	4025.7	4088.2	4118.7	4149.1	4159.3	4169.6	4170.6	4169.6
15°	3860.6	3933.2	4005.8	4045.1	4084.4	4085.5	4086.7	4075.8	4064.8	4052.0	4064.8
17.5°	3897.6	3946.6	3995.7	3996.5	3997.1	3953.0	3908.9	3868.6	3828.1	3799.6	3828.1
20°	3938.4	3955.4	3972.6	3920.9	3869.3	3772.0	3674.7	3603.9	3533.1	3489.5	3533.1
22.5°	3985.7	3963.3	3940.8	3833.8	3726.7	3583.6	3440.5	3352.0	3263.4	3215.3	3263.4
25°	4046.6	3975.9	3905.1	3742.6	3580.0	3406.3	3232.5	3139.4	3046.4	3001.0	3046.4
27.5°	4129.3	4002.8	3876.3	3661.0	3445.7	3253.1	3060.5	2968.9	2877.5	2834.4	2877.5
30°	4240.8	4052.2	3863.8	3598.8	3333.7	3133.0	2932.4	2847.4	2762.5	2722.4	2762.5
32.5°	4372.4	4114.2	3856.2	3556.3	3256.4	3067.8	2879.3	2812.6	2745.8	2717.0	2745.8
35°	4532.4	4216.4	3900.5	3588.1	3275.7	3144.7	3013.8	2998.2	2982.6	2980.3	2982.6
37.5°	4801.7	4430.0	4058.4	3774.4	3490.3	3481.9	3473.4	3544.6	3615.7	3652.7	3615.7
40°	5208.6	4804.5	4400.2	4189.1	3977.8	4126.9	4276.0	4449.0	4622.0	4708.1	4622.0
42.5°	5748.4	5347.3	4946.2	4824.6	4702.9	5028.0	5353.2	5667.8	5982.5	6167.3	5982.5
45°	6414.9	6054.6	5694.2	5640.6	5586.8	6107.7	6628.7	7145.7	7662.9	7976.8	7662.9
47.5°	7248.3	6897.8	6547.3	6536.3	6525.5	7276.9	8028.1	8785.1	9542.0	9986.5	9542.0
50°	8340.7	7907.8	7474.9	7476.8	7478.6	8447.0	9415.4	10414.6	11413.8	12017.9	11413.8
52.5°	9594.7	9070.5	8546.3	8493.4	8440.3	9597.1	10753.8	11990.0	13226.3	13950.4	13226.3
55°	10929.9	10411.9	9894.0	9687.4	9480.7	10768.1	12055.4	13529.3	15003.1	15864.3	15003.1
57.5°	12144.2	11862.1	11579.9	11165.5	10751.2	12051.1	13351.0	15020.5	16689.7	17757.6	16689.7
60°	12878.1	13316.2	13754.3	13239.6	12725.0	13955.2	15185.4	16972.7	18760.0	19914.2	18760.0
62.5°	12505.4	13702.4	14899.4	14841.4	14783.3	15910.3	17037.2	18737.7	20438.1	21505.0	20438.1
65°	11759.5	12882.9	14006.4	14228.7	14450.9	15883.1	17315.3	18964.1	20613.0	21521.3	20613.0
67.5°	10760.1	11828.6	12897.1	13001.3	13105.4	14597.6	16089.7	17745.7	19401.7	20113.3	19401.7
70°	9559.4	10721.6	11883.8	11930.5	11977.1	13311.6	14645.9	16071.0	17495.9	17891.5	17495.9
72.5°	8128.6	9462.2	10796.0	10829.5	10862.9	11906.9	12951.0	14018.3	15085.4	15125.5	15085.4
75°	6318.5	7698.9	9079.2	9203.2	9327.1	10139.3	10951.6	11702.9	12454.3	12253.0	12454.3
77.5°	4514.5	5803.0	7091.6	7269.0	7446.3	8063.8	8681.3	9214.1	9747.1	9401.1	9747.1
80°	2954.7	4038.8	5122.7	5343.1	5563.6	6030.0	6496.1	6776.0	7055.7	6499.1	7055.7
82.5°	1717.6	2458.7	3199.8	3446.0	3692.5	4013.4	4334.4	4451.2	4567.8	4130.3	4567.8
85°	755.6	1149.0	1542.3	1751.8	1961.2	2225.1	2488.7	2554.9	2621.2	2270.9	2621.2
87.5°	233.9	366.1	498.4	615.2	732.1	864.0	995.8	1001.5	1007.1	845.4	1007.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6
2.5°	3129.8	3125.0	3115.2	3105.4	3088.9	3072.5	3060.9	3049.4	3026.0	3002.5	2977.6
5°	3496.7	3483.6	3461.7	3440.0	3399.8	3359.8	3319.4	3279.0	3227.3	3175.6	3124.0
7.5°	3849.6	3830.3	3794.8	3759.1	3700.0	3641.0	3575.3	3509.6	3424.3	3339.1	3260.3
10°	4083.0	4064.2	4022.4	3980.5	3911.1	3841.8	3764.1	3686.4	3578.6	3470.8	3366.6
12.5°	4159.3	4149.1	4118.7	4088.2	4025.7	3963.1	3878.9	3794.8	3676.3	3557.9	3439.9
15°	4075.8	4086.7	4085.5	4084.4	4045.1	4005.8	3933.2	3860.6	3737.0	3613.5	3485.6
17.5°	3868.6	3908.9	3953.0	3997.1	3996.5	3995.7	3946.6	3897.6	3772.3	3647.1	3507.4
20°	3603.9	3674.7	3772.0	3869.3	3920.9	3972.6	3955.4	3938.4	3808.2	3677.9	3524.6
22.5°	3352.0	3440.5	3583.6	3726.7	3833.8	3940.8	3963.3	3985.7	3852.7	3719.6	3547.6
25°	3139.4	3232.5	3406.3	3580.0	3742.6	3905.1	3975.9	4046.6	3916.2	3786.0	3589.3
27.5°	2968.9	3060.5	3253.1	3445.7	3661.0	3876.3	4002.8	4129.3	4005.1	3880.6	3654.6
30°	2847.4	2932.4	3133.0	3333.7	3598.8	3863.8	4052.2	4240.8	4120.7	4000.7	3739.2
32.5°	2812.6	2879.3	3067.8	3256.4	3556.3	3856.2	4114.2	4372.4	4253.5	4134.7	3827.5
35°	2998.2	3013.8	3144.7	3275.7	3588.1	3900.5	4216.4	4532.4	4418.6	4304.7	3928.0
37.5°	3544.6	3473.4	3481.9	3490.3	3774.4	4058.4	4430.0	4801.7	4656.6	4511.4	4040.7
40°	4449.0	4276.0	4126.9	3977.8	4189.1	4400.2	4804.5	5208.6	4997.2	4785.6	4183.6
42.5°	5667.8	5353.2	5028.0	4702.9	4824.6	4946.2	5347.3	5748.4	5443.1	5137.7	4370.6
45°	7145.7	6628.7	6107.7	5586.8	5640.6	5694.2	6054.6	6414.9	6003.0	5591.2	4616.8
47.5°	8785.1	8028.1	7276.9	6525.5	6536.3	6547.3	6897.8	7248.3	6668.6	6088.9	4879.0
50°	10414.6	9415.4	8447.0	7478.6	7476.8	7474.9	7907.8	8340.7	7466.9	6592.9	5122.3
52.5°	11990.0	10753.8	9597.1	8440.3	8493.4	8546.3	9070.5	9594.7	8305.4	7016.0	5280.3
55°	13529.3	12055.4	10768.1	9480.7	9687.4	9894.0	10411.9	10929.9	9048.8	7167.8	5245.4
57.5°	15020.5	13351.0	12051.1	10751.2	11165.5	11579.9	11862.1	12144.2	9575.7	7007.1	5000.5
60°	16972.7	15185.4	13955.2	12725.0	13239.6	13754.3	13316.2	12878.1	9707.3	6536.3	4544.4
62.5°	18737.7	17037.2	15910.3	14783.3	14841.4	14899.4	13702.4	12505.4	9152.8	5800.4	3927.8
65°	18964.1	17315.3	15883.1	14450.9	14228.7	14006.4	12882.9	11759.5	8368.5	4977.5	3298.7
67.5°	17745.7	16089.7	14597.6	13105.4	13001.3	12897.1	11828.6	10760.1	7435.0	4109.9	2682.3
70°	16071.0	14645.9	13311.6	11977.1	11930.5	11883.8	10721.6	9559.4	6416.5	3273.5	2112.0
72.5°	14018.3	12951.0	11906.9	10862.9	10829.5	10796.0	9462.2	8128.6	5312.3	2496.1	1614.6
75°	11702.9	10951.6	10139.3	9327.1	9203.2	9079.2	7698.9	6318.5	4046.5	1774.5	1171.9
77.5°	9214.1	8681.3	8063.8	7446.3	7269.0	7091.6	5803.0	4514.5	2832.2	1149.8	794.1
80°	6776.0	6496.1	6030.0	5563.6	5343.1	5122.7	4038.8	2954.7	1824.7	694.7	511.6
82.5°	4451.2	4334.4	4013.4	3692.5	3446.0	3199.8	2458.7	1717.6	1056.1	394.7	314.7
85°	2554.9	2488.7	2225.1	1961.2	1751.8	1542.3	1149.0	755.6	475.1	194.5	168.2
87.5°	1001.5	995.8	864.0	732.1	615.2	498.4	366.1	233.9	155.6	77.3	69.7
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°	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6
2.5°	2952.8	2927.8	2902.8	2878.8	2854.9	2831.8	2805.9	2785.0	2764.3	2745.5	2726.7
5°	3072.5	3020.7	2968.8	2920.4	2872.0	2826.3	2781.1	2741.8	2702.3	2669.2	2636.2
7.5°	3181.6	3104.8	3028.2	2960.6	2893.0	2830.6	2772.2	2719.7	2667.5	2623.9	2580.4
10°	3262.7	3169.5	3076.2	2996.4	2916.3	2839.4	2776.6	2721.3	2666.0	2622.5	2579.0
12.5°	3321.9	3212.0	3102.2	3011.8	2921.2	2840.5	2782.1	2736.7	2691.8	2662.7	2634.0
15°	3357.6	3231.1	3104.5	2999.9	2895.2	2805.6	2758.9	2737.2	2715.6	2719.5	2723.5
17.5°	3367.8	3221.0	3074.1	2948.2	2822.2	2717.0	2688.2	2696.1	2704.0	2751.3	2798.8
20°	3371.1	3193.1	3015.1	2859.0	2703.0	2580.4	2572.8	2609.8	2646.8	2729.2	2811.6
22.5°	3375.4	3158.9	2942.4	2754.5	2566.6	2427.0	2441.9	2496.6	2551.3	2645.3	2739.6
25°	3392.6	3125.2	2857.9	2637.7	2417.8	2274.7	2314.9	2378.0	2441.1	2525.7	2610.4
27.5°	3428.5	3102.7	2776.8	2531.0	2285.2	2155.0	2204.0	2264.8	2325.8	2395.3	2464.7
30°	3477.7	3092.1	2706.3	2441.8	2177.3	2067.9	2106.3	2154.7	2203.1	2260.8	2318.4
32.5°	3520.2	3079.1	2637.7	2364.9	2091.8	2003.7	2020.8	2049.4	2078.0	2124.1	2170.2
35°	3551.3	3054.5	2557.9	2289.2	2020.6	1947.1	1940.0	1947.9	1955.8	1991.0	2026.0
37.5°	3569.8	3012.4	2455.0	2200.3	1945.6	1881.3	1855.5	1846.7	1838.0	1863.2	1888.4
40°	3581.5	2954.4	2327.5	2094.1	1860.6	1802.5	1762.7	1743.0	1723.3	1741.5	1759.6
42.5°	3603.5	2894.5	2185.7	1976.8	1767.9	1714.3	1664.2	1638.2	1612.0	1626.8	1641.7
45°	3642.3	2838.9	2035.5	1852.4	1669.1	1614.7	1566.3	1540.9	1515.5	1527.9	1540.5
47.5°	3669.0	2793.0	1917.0	1753.9	1590.8	1520.6	1479.0	1457.7	1436.2	1448.0	1459.7
50°	3651.7	2743.0	1834.3	1688.5	1542.7	1450.4	1402.0	1383.0	1364.3	1382.5	1400.9
52.5°	3544.4	2658.4	1772.5	1645.4	1518.4	1412.3	1344.7	1325.9	1307.4	1334.9	1362.3
55°	3323.0	2518.3	1713.5	1614.2	1514.8	1416.1	1314.2	1284.6	1255.1	1294.2	1333.1
57.5°	2993.9	2320.7	1647.4	1577.2	1507.0	1419.9	1295.9	1252.9	1209.7	1251.7	1293.8
60°	2552.5	2064.1	1575.7	1520.6	1465.4	1407.9	1278.7	1222.9	1167.0	1203.9	1240.7
62.5°	2055.2	1757.1	1458.9	1422.3	1385.7	1378.6	1258.7	1188.8	1119.1	1142.5	1165.9
65°	1619.9	1480.8	1341.6	1324.3	1307.0	1307.9	1216.5	1142.3	1067.9	1077.0	1085.9
67.5°	1254.8	1215.2	1175.7	1185.4	1194.9	1192.6	1141.2	1079.4	1017.6	1014.7	1011.9
70°	950.5	961.8	972.9	1017.8	1062.5	1062.5	1045.6	1001.7	957.8	947.9	938.2
72.5°	733.2	767.2	801.3	864.9	928.3	939.0	939.2	909.1	878.9	864.6	850.3
75°	569.3	600.2	631.1	702.2	773.4	822.6	818.5	795.3	772.0	758.3	744.5
77.5°	438.3	459.3	480.4	549.5	618.6	699.7	697.5	678.9	660.2	646.4	632.4
80°	328.6	337.3	346.0	404.6	463.0	559.9	559.4	544.0	528.3	516.6	504.9
82.5°	234.8	236.4	238.1	281.2	324.2	406.9	411.5	403.8	396.3	388.0	379.8
85°	142.0	141.2	140.3	171.9	203.5	265.0	270.9	262.8	254.6	245.4	236.2
87.5°	62.2	61.5	60.7	73.6	86.5	112.0	119.7	116.4	113.2	111.4	109.7
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: P964718

CATALOG NUMBER: NAV-SB3C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6
2.5°	2710.3	2693.9	2677.3	2660.9	2648.2	2635.4	2625.0	2614.7	2606.6	2598.6	2591.2
5°	2607.1	2577.9	2551.4	2524.9	2504.6	2484.1	2469.8	2455.6	2445.4	2435.4	2427.6
7.5°	2543.7	2506.9	2474.6	2442.2	2418.0	2393.8	2376.8	2359.9	2348.2	2336.7	2329.7
10°	2539.5	2499.9	2463.4	2427.0	2398.0	2369.0	2350.0	2331.0	2319.9	2308.9	2303.1
12.5°	2602.9	2572.0	2534.3	2496.6	2459.6	2422.6	2398.2	2373.7	2361.4	2349.2	2344.2
15°	2715.4	2707.3	2674.6	2641.8	2589.3	2536.6	2499.4	2462.2	2445.0	2428.0	2421.6
17.5°	2824.0	2849.2	2822.7	2796.4	2726.6	2656.9	2602.1	2547.2	2522.0	2496.6	2488.4
20°	2864.4	2917.1	2905.0	2892.7	2812.9	2733.3	2666.0	2598.9	2566.6	2534.1	2523.9
22.5°	2808.3	2876.9	2884.4	2891.6	2815.5	2739.3	2670.0	2600.7	2566.7	2532.6	2521.1
25°	2677.9	2745.5	2770.7	2795.9	2733.4	2671.0	2609.4	2548.0	2518.5	2489.0	2478.2
27.5°	2518.9	2573.2	2601.1	2629.3	2584.8	2540.5	2492.7	2444.9	2425.1	2405.3	2400.3
30°	2363.4	2408.4	2431.3	2454.2	2420.3	2386.4	2352.3	2317.8	2307.7	2297.5	2297.5
32.5°	2213.3	2256.4	2281.9	2307.3	2276.2	2245.0	2217.6	2190.3	2183.7	2177.0	2177.9
35°	2068.7	2111.4	2141.9	2172.4	2150.1	2128.1	2102.9	2077.7	2067.6	2057.6	2055.4
37.5°	1930.9	1973.5	2011.3	2048.9	2038.6	2028.4	2005.2	1981.9	1963.6	1945.2	1935.6
40°	1800.8	1841.9	1885.2	1928.6	1931.1	1933.6	1913.9	1894.1	1867.3	1840.8	1822.8
42.5°	1680.7	1719.7	1766.5	1813.3	1825.8	1838.3	1821.6	1805.1	1771.9	1738.8	1712.6
45°	1577.5	1614.5	1663.1	1711.5	1729.5	1747.4	1732.5	1717.6	1679.6	1641.7	1610.9
47.5°	1495.9	1532.1	1579.9	1627.8	1648.4	1669.1	1658.7	1648.2	1614.5	1580.8	1552.3
50°	1435.1	1469.1	1512.0	1554.9	1581.5	1608.0	1607.3	1606.9	1579.9	1552.9	1526.6
52.5°	1393.6	1424.9	1464.8	1504.8	1536.3	1567.7	1573.4	1579.0	1557.1	1535.0	1511.5
55°	1366.8	1400.6	1435.6	1470.6	1503.9	1537.3	1545.1	1552.9	1533.8	1514.6	1493.9
57.5°	1333.3	1373.0	1407.5	1442.3	1475.9	1509.4	1517.3	1525.3	1505.9	1486.6	1466.1
60°	1286.2	1331.6	1366.7	1402.0	1435.7	1469.4	1478.2	1486.9	1467.9	1449.1	1428.0
62.5°	1218.8	1272.0	1309.5	1347.1	1377.9	1408.9	1417.3	1425.6	1408.6	1391.4	1369.3
65°	1142.7	1199.7	1235.5	1271.4	1298.7	1325.8	1334.4	1343.0	1326.5	1310.1	1288.5
67.5°	1064.4	1116.9	1151.0	1184.9	1208.5	1231.9	1240.4	1248.6	1233.5	1218.4	1198.4
70°	984.3	1030.4	1059.7	1089.2	1110.4	1131.6	1139.7	1147.7	1135.4	1123.1	1103.9
72.5°	886.7	922.9	949.5	976.0	996.8	1017.6	1027.2	1036.7	1026.5	1016.3	998.0
75°	771.4	798.5	822.5	846.5	865.5	884.4	894.4	904.5	899.4	894.4	879.0
77.5°	654.4	676.3	696.9	717.6	737.5	757.3	766.7	776.0	769.1	761.9	746.4
80°	523.2	541.3	558.7	576.2	591.2	606.3	618.7	631.1	628.0	625.1	604.3
82.5°	378.2	376.7	370.6	364.5	396.7	429.0	450.1	471.2	469.9	468.4	450.9
85°	228.3	220.4	203.5	186.7	216.8	247.0	273.1	299.2	297.0	294.9	281.2
87.5°	109.4	109.1	96.1	83.2	95.8	108.5	119.1	129.7	127.1	124.2	117.3
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: P964718

CATALOG NUMBER: NAV-SB3C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6
2.5°	2583.6	2574.4	2583.6	2591.2	2598.6	2606.6	2614.7	2625.0	2635.4	2648.2	2660.9
5°	2419.9	2412.3	2419.9	2427.6	2435.4	2445.4	2455.6	2469.8	2484.1	2504.6	2524.9
7.5°	2322.9	2317.6	2322.9	2329.7	2336.7	2348.2	2359.9	2376.8	2393.8	2418.0	2442.2
10°	2297.1	2294.8	2297.1	2303.1	2308.9	2319.9	2331.0	2350.0	2369.0	2398.0	2427.0
12.5°	2339.2	2338.3	2339.2	2344.2	2349.2	2361.4	2373.7	2398.2	2422.6	2459.6	2496.6
15°	2415.0	2414.5	2415.0	2421.6	2428.0	2445.0	2462.2	2499.4	2536.6	2589.3	2641.8
17.5°	2480.0	2478.7	2480.0	2488.4	2496.6	2522.0	2547.2	2602.1	2656.9	2726.6	2796.4
20°	2513.5	2510.2	2513.5	2523.9	2534.1	2566.6	2598.9	2666.0	2733.3	2812.9	2892.7
22.5°	2509.7	2504.8	2509.7	2521.1	2532.6	2566.7	2600.7	2670.0	2739.3	2815.5	2891.6
25°	2467.6	2461.2	2467.6	2478.2	2489.0	2518.5	2548.0	2609.4	2671.0	2733.4	2795.9
27.5°	2395.4	2393.8	2395.4	2400.3	2405.3	2425.1	2444.9	2492.7	2540.5	2584.8	2629.3
30°	2297.5	2299.2	2297.5	2297.5	2297.5	2307.7	2317.8	2352.3	2386.4	2420.3	2454.2
32.5°	2178.9	2180.5	2178.9	2177.9	2177.0	2183.7	2190.3	2217.6	2245.0	2276.2	2307.3
35°	2053.2	2052.2	2053.2	2055.4	2057.6	2067.6	2077.7	2102.9	2128.1	2150.1	2172.4
37.5°	1925.9	1920.4	1925.9	1935.6	1945.2	1963.6	1981.9	2005.2	2028.4	2038.6	2048.9
40°	1804.9	1794.3	1804.9	1822.8	1840.8	1867.3	1894.1	1913.9	1933.6	1931.1	1928.6
42.5°	1686.3	1669.1	1686.3	1712.6	1738.8	1771.9	1805.1	1821.6	1838.3	1825.8	1813.3
45°	1580.1	1560.4	1580.1	1610.9	1641.7	1679.6	1717.6	1732.5	1747.4	1729.5	1711.5
47.5°	1523.9	1504.8	1523.9	1552.3	1580.8	1614.5	1648.2	1658.7	1669.1	1648.4	1627.8
50°	1500.3	1481.9	1500.3	1526.6	1552.9	1579.9	1606.9	1607.3	1608.0	1581.5	1554.9
52.5°	1488.0	1471.1	1488.0	1511.5	1535.0	1557.1	1579.0	1573.4	1567.7	1536.3	1504.8
55°	1473.2	1458.1	1473.2	1493.9	1514.6	1533.8	1552.9	1545.1	1537.3	1503.9	1470.6
57.5°	1445.6	1429.8	1445.6	1466.1	1486.6	1505.9	1525.3	1517.3	1509.4	1475.9	1442.3
60°	1406.9	1390.6	1406.9	1428.0	1449.1	1467.9	1486.9	1478.2	1469.4	1435.7	1402.0
62.5°	1347.1	1327.5	1347.1	1369.3	1391.4	1408.6	1425.6	1417.3	1408.9	1377.9	1347.1
65°	1267.1	1250.2	1267.1	1288.5	1310.1	1326.5	1343.0	1334.4	1325.8	1298.7	1271.4
67.5°	1178.4	1163.2	1178.4	1198.4	1218.4	1233.5	1248.6	1240.4	1231.9	1208.5	1184.9
70°	1084.9	1067.4	1084.9	1103.9	1123.1	1135.4	1147.7	1139.7	1131.6	1110.4	1089.2
72.5°	979.8	963.0	979.8	998.0	1016.3	1026.5	1036.7	1027.2	1017.6	996.8	976.0
75°	863.8	847.6	863.8	879.0	894.4	899.4	904.5	894.4	884.4	865.5	846.5
77.5°	730.9	718.1	730.9	746.4	761.9	769.1	776.0	766.7	757.3	737.5	717.6
80°	583.4	559.2	583.4	604.3	625.1	628.0	631.1	618.7	606.3	591.2	576.2
82.5°	433.3	417.8	433.3	450.9	468.4	469.9	471.2	450.1	429.0	396.7	364.5
85°	267.4	253.5	267.4	281.2	294.9	297.0	299.2	273.1	247.0	216.8	186.7
87.5°	110.1	103.3	110.1	117.3	124.2	127.1	129.7	119.1	108.5	95.8	83.2
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: P964718

CATALOG NUMBER: NAV-SB3C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6
2.5°	2677.3	2693.9	2710.3	2726.7	2745.5	2764.3	2785.0	2805.9	2831.8	2854.9	2878.8
5°	2551.4	2577.9	2607.1	2636.2	2669.2	2702.3	2741.8	2781.1	2826.3	2872.0	2920.4
7.5°	2474.6	2506.9	2543.7	2580.4	2623.9	2667.5	2719.7	2772.2	2830.6	2893.0	2960.6
10°	2463.4	2499.9	2539.5	2579.0	2622.5	2666.0	2721.3	2776.6	2839.4	2916.3	2996.4
12.5°	2534.3	2572.0	2602.9	2634.0	2662.7	2691.8	2736.7	2782.1	2840.5	2921.2	3011.8
15°	2674.6	2707.3	2715.4	2723.5	2719.5	2715.6	2737.2	2758.9	2805.6	2895.2	2999.9
17.5°	2822.7	2849.2	2824.0	2798.8	2751.3	2704.0	2696.1	2688.2	2717.0	2822.2	2948.2
20°	2905.0	2917.1	2864.4	2811.6	2729.2	2646.8	2609.8	2572.8	2580.4	2703.0	2859.0
22.5°	2884.4	2876.9	2808.3	2739.6	2645.3	2551.3	2496.6	2441.9	2427.0	2566.6	2754.5
25°	2770.7	2745.5	2677.9	2610.4	2525.7	2441.1	2378.0	2314.9	2274.7	2417.8	2637.7
27.5°	2601.1	2573.2	2518.9	2464.7	2395.3	2325.8	2264.8	2204.0	2155.0	2285.2	2531.0
30°	2431.3	2408.4	2363.4	2318.4	2260.8	2203.1	2154.7	2106.3	2067.9	2177.3	2441.8
32.5°	2281.9	2256.4	2213.3	2170.2	2124.1	2078.0	2049.4	2020.8	2003.7	2091.8	2364.9
35°	2141.9	2111.4	2068.7	2026.0	1991.0	1955.8	1947.9	1940.0	1947.1	2020.6	2289.2
37.5°	2011.3	1973.5	1930.9	1888.4	1863.2	1838.0	1846.7	1855.5	1881.3	1945.6	2200.3
40°	1885.2	1841.9	1800.8	1759.6	1741.5	1723.3	1743.0	1762.7	1802.5	1860.6	2094.1
42.5°	1766.5	1719.7	1680.7	1641.7	1626.8	1612.0	1638.2	1664.2	1714.3	1767.9	1976.8
45°	1663.1	1614.5	1577.5	1540.5	1527.9	1515.5	1540.9	1566.3	1614.7	1669.1	1852.4
47.5°	1579.9	1532.1	1495.9	1459.7	1448.0	1436.2	1457.7	1479.0	1520.6	1590.8	1753.9
50°	1512.0	1469.1	1435.1	1400.9	1382.5	1364.3	1383.0	1402.0	1450.4	1542.7	1688.5
52.5°	1464.8	1424.9	1393.6	1362.3	1334.9	1307.4	1325.9	1344.7	1412.3	1518.4	1645.4
55°	1435.6	1400.6	1366.8	1333.1	1294.2	1255.1	1284.6	1314.2	1416.1	1514.8	1614.2
57.5°	1407.5	1373.0	1333.3	1293.8	1251.7	1209.7	1252.9	1295.9	1419.9	1507.0	1577.2
60°	1366.7	1331.6	1286.2	1240.7	1203.9	1167.0	1222.9	1278.7	1407.9	1465.4	1520.6
62.5°	1309.5	1272.0	1218.8	1165.9	1142.5	1119.1	1188.8	1258.7	1378.6	1385.7	1422.3
65°	1235.5	1199.7	1142.7	1085.9	1077.0	1067.9	1142.3	1216.5	1307.9	1307.0	1324.3
67.5°	1151.0	1116.9	1064.4	1011.9	1014.7	1017.6	1079.4	1141.2	1192.6	1194.9	1185.4
70°	1059.7	1030.4	984.3	938.2	947.9	957.8	1001.7	1045.6	1062.5	1062.5	1017.8
72.5°	949.5	922.9	886.7	850.3	864.6	878.9	909.1	939.2	939.0	928.3	864.9
75°	822.5	798.5	771.4	744.5	758.3	772.0	795.3	818.5	822.6	773.4	702.2
77.5°	696.9	676.3	654.4	632.4	646.4	660.2	678.9	697.5	699.7	618.6	549.5
80°	558.7	541.3	523.2	504.9	516.6	528.3	544.0	559.4	559.9	463.0	404.6
82.5°	370.6	376.7	378.2	379.8	388.0	396.3	403.8	411.5	406.9	324.2	281.2
85°	203.5	220.4	228.3	236.2	245.4	254.6	262.8	270.9	265.0	203.5	171.9
87.5°	96.1	109.1	109.4	109.7	111.4	113.2	116.4	119.7	112.0	86.5	73.6
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: P964718

CATALOG NUMBER: NAV-SB3C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6	2835.6
2.5°	2902.8	2927.8	2952.8	2977.6	3002.5	3026.0	3049.4
5°	2968.8	3020.7	3072.5	3124.0	3175.6	3227.3	3279.0
7.5°	3028.2	3104.8	3181.6	3260.3	3339.1	3424.3	3509.6
10°	3076.2	3169.5	3262.7	3366.6	3470.8	3578.6	3686.4
12.5°	3102.2	3212.0	3321.9	3439.9	3557.9	3676.3	3794.8
15°	3104.5	3231.1	3357.6	3485.6	3613.5	3737.0	3860.6
17.5°	3074.1	3221.0	3367.8	3507.4	3647.1	3772.3	3897.6
20°	3015.1	3193.1	3371.1	3524.6	3677.9	3808.2	3938.4
22.5°	2942.4	3158.9	3375.4	3547.6	3719.6	3852.7	3985.7
25°	2857.9	3125.2	3392.6	3589.3	3786.0	3916.2	4046.6
27.5°	2776.8	3102.7	3428.5	3654.6	3880.6	4005.1	4129.3
30°	2706.3	3092.1	3477.7	3739.2	4000.7	4120.7	4240.8
32.5°	2637.7	3079.1	3520.2	3827.5	4134.7	4253.5	4372.4
35°	2557.9	3054.5	3551.3	3928.0	4304.7	4418.6	4532.4
37.5°	2455.0	3012.4	3569.8	4040.7	4511.4	4656.6	4801.7
40°	2327.5	2954.4	3581.5	4183.6	4785.6	4997.2	5208.6
42.5°	2185.7	2894.5	3603.5	4370.6	5137.7	5443.1	5748.4
45°	2035.5	2838.9	3642.3	4616.8	5591.2	6003.0	6414.9
47.5°	1917.0	2793.0	3669.0	4879.0	6088.9	6668.6	7248.3
50°	1834.3	2743.0	3651.7	5122.3	6592.9	7466.9	8340.7
52.5°	1772.5	2658.4	3544.4	5280.3	7016.0	8305.4	9594.7
55°	1713.5	2518.3	3323.0	5245.4	7167.8	9048.8	10929.9
57.5°	1647.4	2320.7	2993.9	5000.5	7007.1	9575.7	12144.2
60°	1575.7	2064.1	2552.5	4544.4	6536.3	9707.3	12878.1
62.5°	1458.9	1757.1	2055.2	3927.8	5800.4	9152.8	12505.4
65°	1341.6	1480.8	1619.9	3298.7	4977.5	8368.5	11759.5
67.5°	1175.7	1215.2	1254.8	2682.3	4109.9	7435.0	10760.1
70°	972.9	961.8	950.5	2112.0	3273.5	6416.5	9559.4
72.5°	801.3	767.2	733.2	1614.6	2496.1	5312.3	8128.6
75°	631.1	600.2	569.3	1171.9	1774.5	4046.5	6318.5
77.5°	480.4	459.3	438.3	794.1	1149.8	2832.2	4514.5
80°	346.0	337.3	328.6	511.6	694.7	1824.7	2954.7
82.5°	238.1	236.4	234.8	314.7	394.7	1056.1	1717.6
85°	140.3	141.2	142.0	168.2	194.5	475.1	755.6
87.5°	60.7	61.5	62.2	69.7	77.3	155.6	233.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)