

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: P966330

Luminaire Tested: **NAV-SB4B-835-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966330
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-SB4B-835-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 21379.4 lumens
Efficiency: N/A
Efficacy: 145.4 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): 147
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

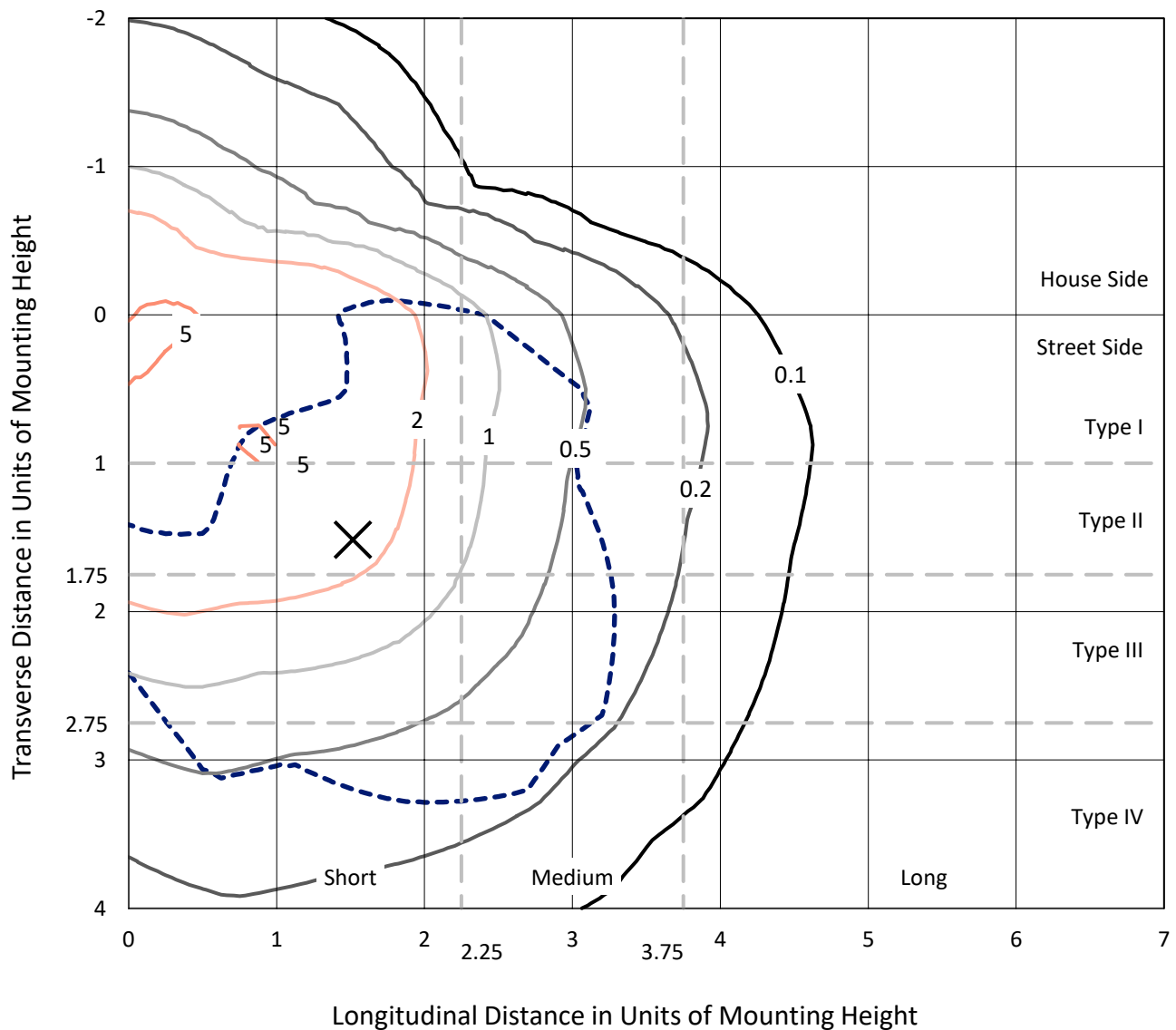


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

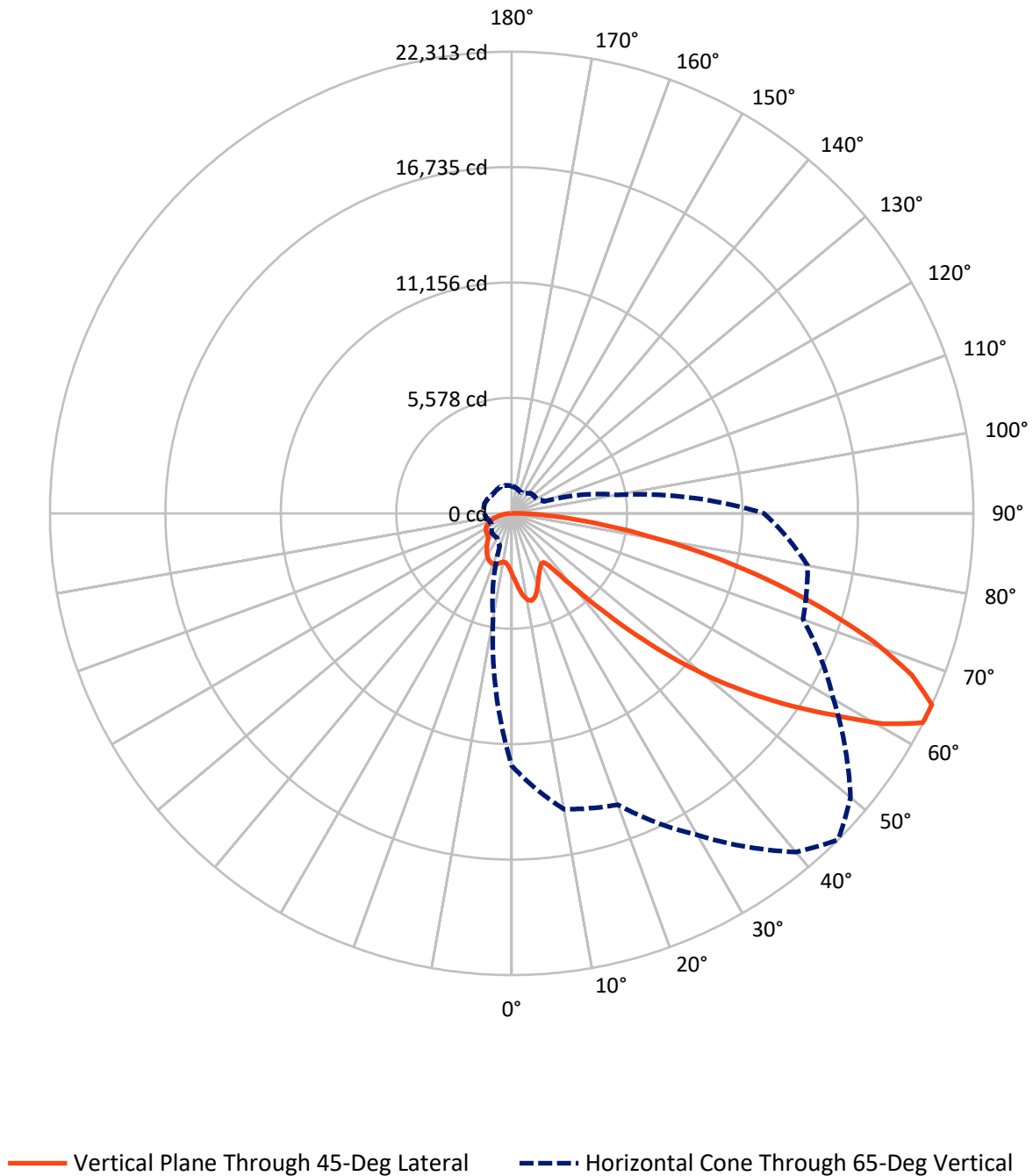


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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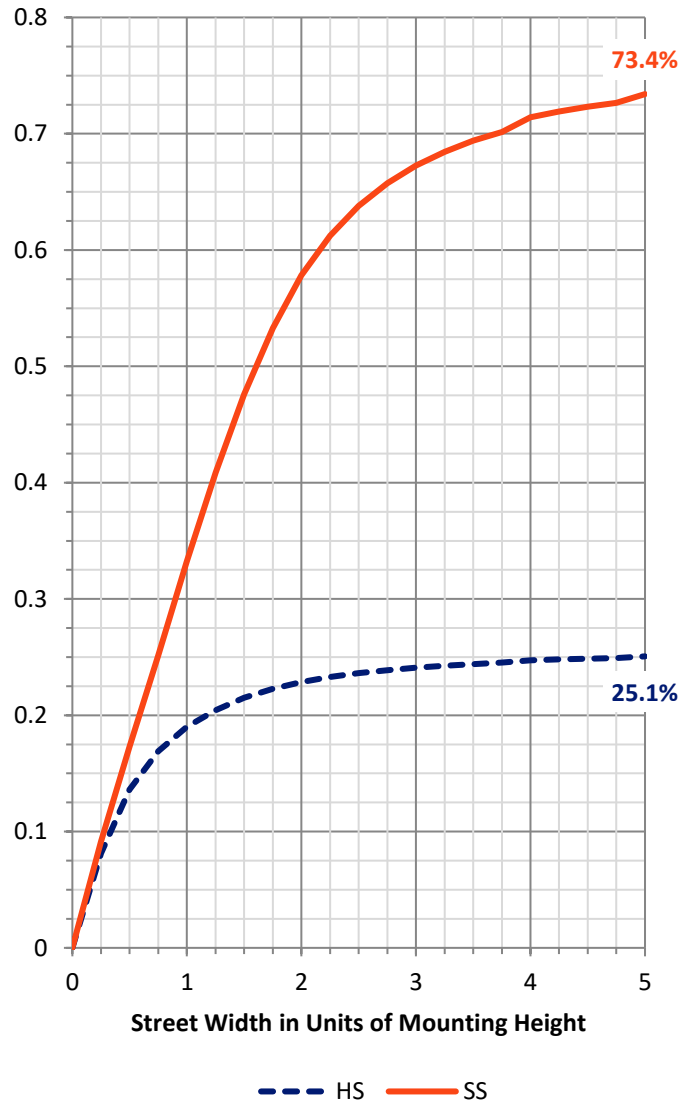
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5433.6	0.0	5433.6
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	15945.9	0.0	15945.9
	% Fixture	74.6	0.0	74.6
Total	Lumens	21379.4	0.0	21379.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	1.4
10°-20°	915.5	4.3
20°-30°	1414.1	6.6
30°-40°	1792.0	8.4
40°-50°	2702.9	12.6
50°-60°	4366.9	20.4
60°-70°	5444.0	25.5
70°-80°	3569.9	16.7
80°-90°	882.6	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°	21379.4	100.0
0°-180°	21379.4	100.0

Coefficient of Utilization



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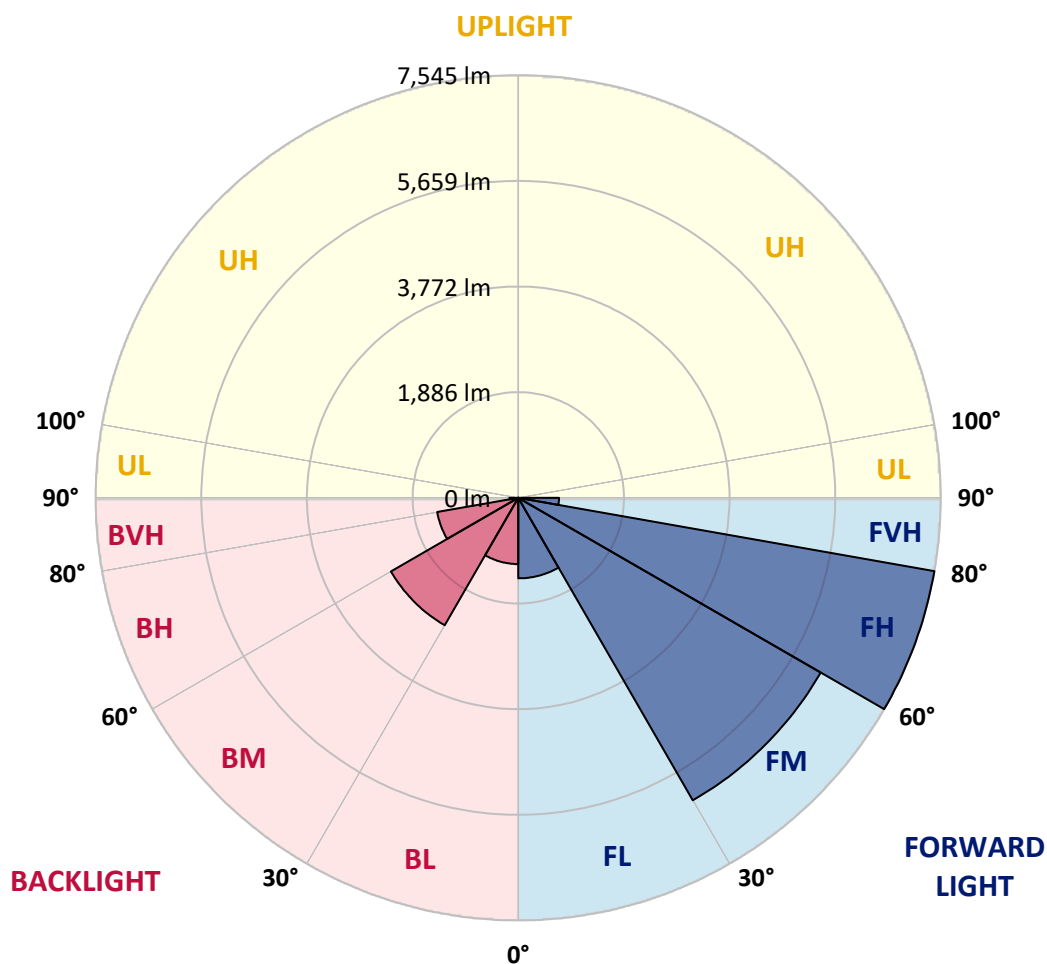
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.0	6.7			
FM	(30°-60°)	6235.9	29.2			
FH	(60°-80°)	7544.9	35.3			G4/12000
FVH	(80°-90°)	727.0	3.4			G4/750
BL	(0°-30°)	1183.2	5.5	B3/2500		
BM	(30°-60°)	2625.8	12.3	B3/5000		
BH	(60°-80°)	1469.0	6.9	B3/2500		G3/2500
BVH	(80°-90°)	155.5	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°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	3161.5	3173.5	3185.6	3202.6	3219.6	3229.8	3239.9	3245.0	3250.1	3247.8	3250.1
5°	3399.5	3441.4	3483.4	3524.9	3566.5	3589.0	3611.7	3625.3	3639.1	3649.4	3639.1
7.5°	3638.7	3706.9	3774.9	3836.2	3897.4	3934.3	3971.2	3991.1	4011.0	4020.6	4011.0
10°	3822.0	3902.6	3983.2	4055.0	4126.9	4170.4	4213.7	4233.1	4252.4	4259.8	4252.4
12.5°	3934.3	4021.6	4108.8	4173.8	4238.6	4270.2	4301.7	4312.3	4322.9	4324.1	4322.9
15°	4002.5	4077.9	4153.1	4193.9	4234.7	4235.8	4236.9	4225.7	4214.4	4201.1	4214.4
17.5°	4040.9	4091.8	4142.6	4143.5	4144.1	4098.5	4052.7	4010.9	3968.9	3939.4	3968.9
20°	4083.2	4100.9	4118.8	4065.2	4011.5	3910.7	3809.8	3736.4	3662.9	3617.8	3662.9
22.5°	4132.3	4109.0	4085.8	3974.7	3863.7	3715.4	3567.1	3475.3	3383.4	3333.6	3383.4
25°	4195.4	4122.1	4048.7	3880.2	3711.7	3531.5	3351.4	3254.8	3158.5	3111.3	3158.5
27.5°	4281.2	4150.1	4018.9	3795.7	3572.5	3372.9	3173.2	3078.2	2983.3	2938.8	2983.3
30°	4396.8	4201.3	4005.9	3731.1	3456.3	3248.3	3040.3	2952.2	2864.1	2822.5	2864.1
32.5°	4533.3	4265.6	3998.0	3687.1	3376.2	3180.7	2985.2	2916.0	2846.8	2816.9	2846.8
35°	4699.1	4371.5	4044.0	3720.0	3396.1	3260.3	3124.6	3108.5	3092.4	3089.9	3092.4
37.5°	4978.3	4593.0	4207.6	3913.1	3618.8	3609.9	3601.1	3674.9	3748.7	3787.1	3748.7
40°	5400.3	4981.2	4562.1	4343.1	4124.2	4278.7	4433.2	4612.6	4792.0	4881.4	4792.0
42.5°	5959.9	5544.0	5128.2	5002.0	4875.9	5213.0	5550.1	5876.3	6202.6	6394.2	6202.6
45°	6650.8	6277.3	5903.6	5848.0	5792.3	6332.3	6872.4	7408.5	7944.8	8270.2	7944.8
47.5°	7514.9	7151.5	6788.1	6776.8	6765.5	7544.6	8323.4	9108.3	9893.0	10353.8	9893.0
50°	8647.5	8198.7	7749.9	7751.8	7753.7	8757.8	9761.8	10797.8	11833.6	12460.0	11833.6
52.5°	9947.7	9404.2	8860.7	8805.8	8750.7	9950.1	11149.3	12431.1	13712.8	14463.5	13712.8
55°	11331.9	10794.9	10257.9	10043.7	9829.4	11164.2	12499.0	14026.9	15555.0	16447.9	15555.0
57.5°	12590.9	12298.5	12005.9	11576.2	11146.7	12494.4	13842.1	15572.9	17303.5	18410.7	17303.5
60°	13351.8	13805.9	14260.2	13726.6	13193.1	14468.5	15743.9	17597.0	19450.0	20646.7	19450.0
62.5°	12965.4	14206.4	15447.5	15387.3	15327.1	16495.4	17663.9	19427.0	21189.9	22296.0	21189.9
65°	12192.1	13356.9	14521.6	14752.1	14982.4	16467.2	17952.2	19661.8	21371.1	22312.9	21371.1
67.5°	11155.9	12263.7	13371.5	13479.6	13587.5	15134.6	16681.6	18398.4	20115.3	20853.1	20115.3
70°	9911.0	11115.9	12321.0	12369.3	12417.7	13801.2	15184.6	16662.1	18139.4	18549.5	18139.4
72.5°	8427.6	9810.3	11193.1	11227.8	11262.5	12344.9	13427.4	14533.9	15640.4	15681.9	15640.4
75°	6551.0	7982.1	9413.2	9541.7	9670.2	10512.3	11354.4	12133.4	12912.3	12703.6	12912.3
77.5°	4680.6	6016.4	7352.4	7536.3	7720.2	8360.4	9000.6	9553.1	10105.6	9746.9	10105.6
80°	3063.4	4187.3	5311.1	5539.7	5768.3	6251.8	6735.1	7025.2	7315.2	6738.2	7315.2
82.5°	1780.7	2549.1	3317.5	3572.8	3828.3	4161.1	4493.8	4614.9	4735.8	4282.3	4735.8
85°	783.5	1191.3	1599.1	1816.3	2033.4	2306.9	2580.2	2648.9	2717.6	2354.3	2717.6
87.5°	242.5	379.7	516.7	637.9	759.0	895.7	1032.5	1038.3	1044.1	876.6	1044.1
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°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	3245.0	3239.9	3229.8	3219.6	3202.6	3185.6	3173.5	3161.5	3137.3	3113.0	3087.2
5°	3625.3	3611.7	3589.0	3566.5	3524.9	3483.4	3441.4	3399.5	3346.0	3292.4	3238.9
7.5°	3991.1	3971.2	3934.3	3897.4	3836.2	3774.9	3706.9	3638.7	3550.3	3461.9	3380.2
10°	4233.1	4213.7	4170.4	4126.9	4055.0	3983.2	3902.6	3822.0	3710.3	3598.5	3490.5
12.5°	4312.3	4301.7	4270.2	4238.6	4173.8	4108.8	4021.6	3934.3	3811.5	3688.7	3566.4
15°	4225.7	4236.9	4235.8	4234.7	4193.9	4153.1	4077.9	4002.5	3874.5	3746.5	3613.8
17.5°	4010.9	4052.7	4098.5	4144.1	4143.5	4142.6	4091.8	4040.9	3911.1	3781.2	3636.5
20°	3736.4	3809.8	3910.7	4011.5	4065.2	4118.8	4100.9	4083.2	3948.3	3813.2	3654.2
22.5°	3475.3	3567.1	3715.4	3863.7	3974.7	4085.8	4109.0	4132.3	3994.4	3856.5	3678.1
25°	3254.8	3351.4	3531.5	3711.7	3880.2	4048.7	4122.1	4195.4	4060.3	3925.2	3721.4
27.5°	3078.2	3173.2	3372.9	3572.5	3795.7	4018.9	4150.1	4281.2	4152.4	4023.4	3789.1
30°	2952.2	3040.3	3248.3	3456.3	3731.1	4005.9	4201.3	4396.8	4272.3	4147.9	3876.8
32.5°	2916.0	2985.2	3180.7	3376.2	3687.1	3998.0	4265.6	4533.3	4410.1	4286.9	3968.3
35°	3108.5	3124.6	3260.3	3396.1	3720.0	4044.0	4371.5	4699.1	4581.1	4463.1	4072.5
37.5°	3674.9	3601.1	3609.9	3618.8	3913.1	4207.6	4593.0	4978.3	4827.9	4677.4	4189.3
40°	4612.6	4433.2	4278.7	4124.2	4343.1	4562.1	4981.2	5400.3	5181.0	4961.6	4337.5
42.5°	5876.3	5550.1	5213.0	4875.9	5002.0	5128.2	5544.0	5959.9	5643.2	5326.7	4531.4
45°	7408.5	6872.4	6332.3	5792.3	5848.0	5903.6	6277.3	6650.8	6223.8	5796.8	4786.5
47.5°	9108.3	8323.4	7544.6	6765.5	6776.8	6788.1	7151.5	7514.9	6913.9	6312.9	5058.5
50°	10797.8	9761.8	8757.8	7753.7	7751.8	7749.9	8198.7	8647.5	7741.5	6835.4	5310.7
52.5°	12431.1	11149.3	9950.1	8750.7	8805.8	8860.7	9404.2	9947.7	8610.9	7274.0	5474.5
55°	14026.9	12499.0	11164.2	9829.4	10043.7	10257.9	10794.9	11331.9	9381.6	7431.5	5438.4
57.5°	15572.9	13842.1	12494.4	11146.7	11576.2	12005.9	12298.5	12590.9	9927.8	7264.8	5184.3
60°	17597.0	15743.9	14468.5	13193.1	13726.6	14260.2	13805.9	13351.8	10064.4	6776.8	4711.5
62.5°	19427.0	17663.9	16495.4	15327.1	15387.3	15447.5	14206.4	12965.4	9489.6	6013.8	4072.2
65°	19661.8	17952.2	16467.2	14982.4	14752.1	14521.6	13356.9	12192.1	8676.3	5160.6	3420.0
67.5°	18398.4	16681.6	15134.6	13587.5	13479.6	13371.5	12263.7	11155.9	7708.5	4261.1	2781.0
70°	16662.1	15184.6	13801.2	12417.7	12369.3	12321.0	11115.9	9911.0	6652.5	3393.9	2189.7
72.5°	14533.9	13427.4	12344.9	11262.5	11227.8	11193.1	9810.3	8427.6	5507.6	2587.9	1674.0
75°	12133.4	11354.4	10512.3	9670.2	9541.7	9413.2	7982.1	6551.0	4195.3	1839.8	1214.9
77.5°	9553.1	9000.6	8360.4	7720.2	7536.3	7352.4	6016.4	4680.6	2936.3	1192.2	823.3
80°	7025.2	6735.1	6251.8	5768.3	5539.7	5311.1	4187.3	3063.4	1891.8	720.3	530.4
82.5°	4614.9	4493.8	4161.1	3828.3	3572.8	3317.5	2549.1	1780.7	1094.9	409.3	326.3
85°	2648.9	2580.2	2306.9	2033.4	1816.3	1599.1	1191.3	783.5	492.5	201.7	174.5
87.5°	1038.3	1032.5	895.7	759.0	637.9	516.7	379.7	242.5	161.3	80.1	72.3
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°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	3061.5	3035.5	3009.6	2984.8	2959.9	2935.9	2909.2	2887.5	2866.0	2846.4	2827.1
5°	3185.6	3131.8	3078.1	3027.8	2977.6	2930.3	2883.4	2842.6	2801.6	2767.4	2733.2
7.5°	3298.6	3219.1	3139.6	3069.5	2999.5	2934.8	2874.2	2819.9	2765.6	2720.5	2675.4
10°	3382.6	3286.0	3189.4	3106.6	3023.5	2943.8	2878.7	2821.4	2764.1	2719.0	2673.8
12.5°	3444.1	3330.2	3216.2	3122.5	3028.8	2944.9	2884.4	2837.4	2790.8	2760.7	2730.9
15°	3481.1	3349.9	3218.7	3110.2	3001.7	2908.8	2860.4	2837.9	2815.6	2819.6	2823.7
17.5°	3491.8	3339.4	3187.1	3056.7	2926.1	2816.9	2787.0	2795.3	2803.4	2852.6	2901.8
20°	3495.1	3310.5	3126.0	2964.2	2802.5	2675.4	2667.5	2705.8	2744.1	2829.5	2915.0
22.5°	3499.7	3275.2	3050.6	2855.9	2661.0	2516.3	2531.8	2588.4	2645.2	2742.7	2840.4
25°	3517.5	3240.1	2963.0	2734.8	2506.6	2358.3	2400.0	2465.5	2530.9	2618.6	2706.3
27.5°	3554.7	3216.9	2878.9	2624.1	2369.3	2234.2	2285.0	2348.2	2411.3	2483.5	2555.4
30°	3605.6	3205.9	2805.8	2531.5	2257.4	2144.0	2183.8	2233.9	2284.2	2344.0	2403.8
32.5°	3649.6	3192.4	2734.8	2451.8	2168.8	2077.4	2095.1	2124.8	2154.4	2202.2	2250.0
35°	3681.9	3166.8	2652.0	2373.4	2094.9	2018.7	2011.5	2019.6	2027.8	2064.2	2100.5
37.5°	3701.1	3123.2	2545.3	2281.1	2017.1	1950.5	1923.6	1914.6	1905.6	1931.8	1957.9
40°	3713.2	3063.0	2413.1	2171.1	1929.0	1868.7	1827.6	1807.1	1786.7	1805.5	1824.4
42.5°	3736.1	3001.0	2266.2	2049.6	1832.9	1777.4	1725.5	1698.3	1671.3	1686.6	1702.1
45°	3776.3	2943.4	2110.5	1920.5	1730.5	1674.1	1623.9	1597.6	1571.2	1584.1	1597.2
47.5°	3804.0	2895.7	1987.5	1818.5	1649.3	1576.6	1533.3	1511.3	1489.1	1501.3	1513.4
50°	3785.9	2843.9	1901.8	1750.6	1599.4	1503.8	1453.6	1434.0	1414.4	1433.4	1452.4
52.5°	3674.8	2756.2	1837.7	1705.9	1574.3	1464.3	1394.1	1374.7	1355.5	1384.0	1412.3
55°	3445.2	2610.9	1776.5	1673.5	1570.6	1468.2	1362.5	1331.9	1301.2	1341.7	1382.2
57.5°	3104.0	2406.1	1708.0	1635.2	1562.4	1472.2	1343.6	1298.9	1254.2	1297.8	1341.3
60°	2646.3	2140.0	1633.7	1576.6	1519.4	1459.8	1325.7	1267.9	1209.9	1248.1	1286.3
62.5°	2130.8	1821.6	1512.6	1474.6	1436.6	1429.4	1305.0	1232.6	1160.3	1184.5	1208.8
65°	1679.6	1535.2	1390.9	1373.0	1355.0	1356.0	1261.3	1184.3	1107.2	1116.6	1125.9
67.5°	1300.9	1260.0	1218.9	1229.0	1238.9	1236.5	1183.2	1119.1	1055.0	1052.1	1049.2
70°	985.4	997.1	1008.8	1055.2	1101.6	1101.6	1084.1	1038.5	992.9	982.8	972.6
72.5°	760.1	795.4	830.9	896.8	962.5	973.5	973.7	942.5	911.3	896.4	881.6
75°	590.2	622.3	654.3	728.1	801.9	852.9	848.6	824.5	800.4	786.2	771.8
77.5°	454.4	476.2	498.0	569.7	641.3	725.4	723.1	703.9	684.5	670.1	655.7
80°	340.7	349.7	358.7	419.4	480.0	580.5	580.0	564.0	547.7	535.7	523.5
82.5°	243.4	245.0	246.8	291.5	336.2	421.9	426.6	418.7	410.8	402.3	393.7
85°	147.2	146.5	145.5	178.2	210.9	274.7	280.8	272.4	263.9	254.4	244.8
87.5°	64.6	63.8	62.9	76.3	89.7	116.2	124.1	120.7	117.4	115.5	113.7
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: P966330

CATALOG NUMBER: NAV-SB4B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	2810.0	2793.0	2775.8	2758.8	2745.6	2732.2	2721.6	2710.8	2702.5	2694.1	2686.5
5°	2702.9	2672.7	2645.3	2617.7	2596.7	2575.5	2560.7	2545.9	2535.4	2525.0	2516.9
7.5°	2637.3	2599.2	2565.6	2532.1	2506.8	2481.8	2464.2	2446.7	2434.6	2422.6	2415.4
10°	2632.9	2591.8	2554.1	2516.3	2486.2	2456.1	2436.5	2416.6	2405.3	2393.9	2387.7
12.5°	2698.6	2666.6	2627.5	2588.4	2550.1	2511.8	2486.3	2461.0	2448.2	2435.6	2430.4
15°	2815.3	2807.0	2773.0	2739.0	2684.5	2629.8	2591.3	2552.7	2535.0	2517.4	2510.6
17.5°	2927.9	2953.9	2926.6	2899.2	2827.0	2754.6	2697.8	2640.9	2614.8	2588.4	2579.9
20°	2969.7	3024.5	3011.9	2999.0	2916.4	2833.8	2764.1	2694.5	2661.0	2627.4	2616.6
22.5°	2911.5	2982.7	2990.4	2997.9	2919.0	2840.1	2768.3	2696.4	2661.1	2625.6	2613.9
25°	2776.4	2846.4	2872.7	2898.7	2833.9	2769.2	2705.5	2641.8	2611.1	2580.5	2569.4
27.5°	2611.6	2667.8	2696.9	2726.1	2680.0	2633.9	2584.4	2534.8	2514.3	2493.7	2488.6
30°	2450.4	2497.1	2520.8	2544.5	2509.4	2474.1	2438.8	2403.1	2392.7	2382.0	2382.0
32.5°	2294.7	2339.5	2365.8	2392.1	2359.9	2327.6	2299.2	2270.9	2264.0	2257.2	2258.1
35°	2144.8	2189.1	2220.7	2252.2	2229.3	2206.3	2180.2	2154.1	2143.7	2133.2	2131.0
37.5°	2001.9	2046.2	2085.2	2124.2	2113.7	2103.0	2079.0	2054.8	2035.8	2016.8	2006.8
40°	1867.0	1909.7	1954.6	1999.6	2002.1	2004.7	1984.2	1963.8	1936.0	1908.5	1889.8
42.5°	1742.5	1783.0	1831.5	1880.0	1893.0	1906.0	1888.7	1871.5	1837.1	1802.8	1775.5
45°	1635.5	1673.9	1724.3	1774.5	1793.1	1811.8	1796.2	1780.7	1741.4	1702.1	1670.1
47.5°	1550.9	1588.3	1638.1	1687.7	1709.1	1730.5	1719.6	1708.9	1673.9	1638.9	1609.4
50°	1487.9	1523.1	1567.6	1612.1	1639.6	1667.2	1666.4	1666.0	1638.1	1610.1	1582.7
52.5°	1444.8	1477.2	1518.6	1560.2	1592.7	1625.3	1631.3	1637.1	1614.4	1591.5	1567.0
55°	1417.2	1452.1	1488.4	1524.7	1559.1	1593.8	1601.9	1610.1	1590.2	1570.3	1548.9
57.5°	1382.4	1423.4	1459.3	1495.3	1530.1	1564.9	1573.2	1581.4	1561.3	1541.2	1520.0
60°	1333.4	1380.6	1417.1	1453.6	1488.5	1523.6	1532.6	1541.6	1521.9	1502.4	1480.5
62.5°	1263.7	1318.8	1357.7	1396.6	1428.6	1460.7	1469.3	1478.0	1460.3	1442.6	1419.6
65°	1184.7	1243.7	1280.9	1318.1	1346.4	1374.6	1383.5	1392.4	1375.2	1358.2	1335.9
67.5°	1103.5	1158.0	1193.3	1228.5	1252.9	1277.3	1286.0	1294.5	1278.8	1263.2	1242.5
70°	1020.5	1068.4	1098.8	1129.2	1151.3	1173.2	1181.6	1189.9	1177.2	1164.4	1144.6
72.5°	919.3	956.8	984.4	1011.9	1033.5	1055.0	1065.0	1074.8	1064.3	1053.7	1034.7
75°	799.8	827.8	852.7	877.7	897.3	917.0	927.3	937.7	932.5	927.3	911.4
77.5°	678.4	701.1	722.5	743.9	764.6	785.2	794.9	804.5	797.3	789.9	773.9
80°	542.4	561.2	579.3	597.4	613.1	628.6	641.4	654.3	651.2	648.1	626.6
82.5°	392.2	390.5	384.3	377.9	411.3	444.7	466.6	488.5	487.1	485.6	467.5
85°	236.7	228.5	210.9	193.5	224.7	256.0	283.1	310.3	308.0	305.8	291.5
87.5°	113.4	113.1	99.7	86.3	99.4	112.5	123.5	134.5	131.7	128.8	121.6
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: P966330

CATALOG NUMBER: NAV-SB4B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	2678.7	2669.1	2678.7	2686.5	2694.1	2702.5	2710.8	2721.6	2732.2	2745.6	2758.8
5°	2508.9	2501.0	2508.9	2516.9	2525.0	2535.4	2545.9	2560.7	2575.5	2596.7	2617.7
7.5°	2408.3	2402.9	2408.3	2415.4	2422.6	2434.6	2446.7	2464.2	2481.8	2506.8	2532.1
10°	2381.7	2379.2	2381.7	2387.7	2393.9	2405.3	2416.6	2436.5	2456.1	2486.2	2516.3
12.5°	2425.3	2424.3	2425.3	2430.4	2435.6	2448.2	2461.0	2486.3	2511.8	2550.1	2588.4
15°	2503.9	2503.3	2503.9	2510.6	2517.4	2535.0	2552.7	2591.3	2629.8	2684.5	2739.0
17.5°	2571.2	2569.9	2571.2	2579.9	2588.4	2614.8	2640.9	2697.8	2754.6	2827.0	2899.2
20°	2606.0	2602.6	2606.0	2616.6	2627.4	2661.0	2694.5	2764.1	2833.8	2916.4	2999.0
22.5°	2602.0	2596.9	2602.0	2613.9	2625.6	2661.1	2696.4	2768.3	2840.1	2919.0	2997.9
25°	2558.3	2551.7	2558.3	2569.4	2580.5	2611.1	2641.8	2705.5	2769.2	2833.9	2898.7
27.5°	2483.6	2481.8	2483.6	2488.6	2493.7	2514.3	2534.8	2584.4	2633.9	2680.0	2726.1
30°	2382.0	2383.7	2382.0	2382.0	2382.0	2392.7	2403.1	2438.8	2474.1	2509.4	2544.5
32.5°	2259.0	2260.7	2259.0	2258.1	2257.2	2264.0	2270.9	2299.2	2327.6	2359.9	2392.1
35°	2128.7	2127.6	2128.7	2131.0	2133.2	2143.7	2154.1	2180.2	2206.3	2229.3	2252.2
37.5°	1996.8	1991.2	1996.8	2006.8	2016.8	2035.8	2054.8	2079.0	2103.0	2113.7	2124.2
40°	1871.3	1860.3	1871.3	1889.8	1908.5	1936.0	1963.8	1984.2	2004.7	2002.1	1999.6
42.5°	1748.3	1730.5	1748.3	1775.5	1802.8	1837.1	1871.5	1888.7	1906.0	1893.0	1880.0
45°	1638.3	1617.8	1638.3	1670.1	1702.1	1741.4	1780.7	1796.2	1811.8	1793.1	1774.5
47.5°	1579.9	1560.2	1579.9	1609.4	1638.9	1673.9	1708.9	1719.6	1730.5	1709.1	1687.7
50°	1555.4	1536.5	1555.4	1582.7	1610.1	1638.1	1666.0	1666.4	1667.2	1639.6	1612.1
52.5°	1542.7	1525.2	1542.7	1567.0	1591.5	1614.4	1637.1	1631.3	1625.3	1592.7	1560.2
55°	1527.5	1511.7	1527.5	1548.9	1570.3	1590.2	1610.1	1601.9	1593.8	1559.1	1524.7
57.5°	1498.7	1482.4	1498.7	1520.0	1541.2	1561.3	1581.4	1573.2	1564.9	1530.1	1495.3
60°	1458.7	1441.8	1458.7	1480.5	1502.4	1521.9	1541.6	1532.6	1523.6	1488.5	1453.6
62.5°	1396.6	1376.3	1396.6	1419.6	1442.6	1460.3	1478.0	1469.3	1460.7	1428.6	1396.6
65°	1313.6	1296.2	1313.6	1335.9	1358.2	1375.2	1392.4	1383.5	1374.6	1346.4	1318.1
67.5°	1221.7	1205.9	1221.7	1242.5	1263.2	1278.8	1294.5	1286.0	1277.3	1252.9	1228.5
70°	1124.7	1106.7	1124.7	1144.6	1164.4	1177.2	1189.9	1181.6	1173.2	1151.3	1129.2
72.5°	1015.9	998.4	1015.9	1034.7	1053.7	1064.3	1074.8	1065.0	1055.0	1033.5	1011.9
75°	895.5	878.8	895.5	911.4	927.3	932.5	937.7	927.3	917.0	897.3	877.7
77.5°	757.9	744.6	757.9	773.9	789.9	797.3	804.5	794.9	785.2	764.6	743.9
80°	604.9	579.8	604.9	626.6	648.1	651.2	654.3	641.4	628.6	613.1	597.4
82.5°	449.3	433.2	449.3	467.5	485.6	487.1	488.5	466.6	444.7	411.3	377.9
85°	277.3	262.8	277.3	291.5	305.8	308.0	310.3	283.1	256.0	224.7	193.5
87.5°	114.2	107.2	114.2	121.6	128.8	131.7	134.5	123.5	112.5	99.4	86.3
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: P966330

CATALOG NUMBER: NAV-SB4B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	2775.8	2793.0	2810.0	2827.1	2846.4	2866.0	2887.5	2909.2	2935.9	2959.9	2984.8
5°	2645.3	2672.7	2702.9	2733.2	2767.4	2801.6	2842.6	2883.4	2930.3	2977.6	3027.8
7.5°	2565.6	2599.2	2637.3	2675.4	2720.5	2765.6	2819.9	2874.2	2934.8	2999.5	3069.5
10°	2554.1	2591.8	2632.9	2673.8	2719.0	2764.1	2821.4	2878.7	2943.8	3023.5	3106.6
12.5°	2627.5	2666.6	2698.6	2730.9	2760.7	2790.8	2837.4	2884.4	2944.9	3028.8	3122.5
15°	2773.0	2807.0	2815.3	2823.7	2819.6	2815.6	2837.9	2860.4	2908.8	3001.7	3110.2
17.5°	2926.6	2953.9	2927.9	2901.8	2852.6	2803.4	2795.3	2787.0	2816.9	2926.1	3056.7
20°	3011.9	3024.5	2969.7	2915.0	2829.5	2744.1	2705.8	2667.5	2675.4	2802.5	2964.2
22.5°	2990.4	2982.7	2911.5	2840.4	2742.7	2645.2	2588.4	2531.8	2516.3	2661.0	2855.9
25°	2872.7	2846.4	2776.4	2706.3	2618.6	2530.9	2465.5	2400.0	2358.3	2506.6	2734.8
27.5°	2696.9	2667.8	2611.6	2555.4	2483.5	2411.3	2348.2	2285.0	2234.2	2369.3	2624.1
30°	2520.8	2497.1	2450.4	2403.8	2344.0	2284.2	2233.9	2183.8	2144.0	2257.4	2531.5
32.5°	2365.8	2339.5	2294.7	2250.0	2202.2	2154.4	2124.8	2095.1	2077.4	2168.8	2451.8
35°	2220.7	2189.1	2144.8	2100.5	2064.2	2027.8	2019.6	2011.5	2018.7	2094.9	2373.4
37.5°	2085.2	2046.2	2001.9	1957.9	1931.8	1905.6	1914.6	1923.6	1950.5	2017.1	2281.1
40°	1954.6	1909.7	1867.0	1824.4	1805.5	1786.7	1807.1	1827.6	1868.7	1929.0	2171.1
42.5°	1831.5	1783.0	1742.5	1702.1	1686.6	1671.3	1698.3	1725.5	1777.4	1832.9	2049.6
45°	1724.3	1673.9	1635.5	1597.2	1584.1	1571.2	1597.6	1623.9	1674.1	1730.5	1920.5
47.5°	1638.1	1588.3	1550.9	1513.4	1501.3	1489.1	1511.3	1533.3	1576.6	1649.3	1818.5
50°	1567.6	1523.1	1487.9	1452.4	1433.4	1414.4	1434.0	1453.6	1503.8	1599.4	1750.6
52.5°	1518.6	1477.2	1444.8	1412.3	1384.0	1355.5	1374.7	1394.1	1464.3	1574.3	1705.9
55°	1488.4	1452.1	1417.2	1382.2	1341.7	1301.2	1331.9	1362.5	1468.2	1570.6	1673.5
57.5°	1459.3	1423.4	1382.4	1341.3	1297.8	1254.2	1298.9	1343.6	1472.2	1562.4	1635.2
60°	1417.1	1380.6	1333.4	1286.3	1248.1	1209.9	1267.9	1325.7	1459.8	1519.4	1576.6
62.5°	1357.7	1318.8	1263.7	1208.8	1184.5	1160.3	1232.6	1305.0	1429.4	1436.6	1474.6
65°	1280.9	1243.7	1184.7	1125.9	1116.6	1107.2	1184.3	1261.3	1356.0	1355.0	1373.0
67.5°	1193.3	1158.0	1103.5	1049.2	1052.1	1055.0	1119.1	1183.2	1236.5	1238.9	1229.0
70°	1098.8	1068.4	1020.5	972.6	982.8	992.9	1038.5	1084.1	1101.6	1101.6	1055.2
72.5°	984.4	956.8	919.3	881.6	896.4	911.3	942.5	973.7	973.5	962.5	896.8
75°	852.7	827.8	799.8	771.8	786.2	800.4	824.5	848.6	852.9	801.9	728.1
77.5°	722.5	701.1	678.4	655.7	670.1	684.5	703.9	723.1	725.4	641.3	569.7
80°	579.3	561.2	542.4	523.5	535.7	547.7	564.0	580.0	580.5	480.0	419.4
82.5°	384.3	390.5	392.2	393.7	402.3	410.8	418.7	426.6	421.9	336.2	291.5
85°	210.9	228.5	236.7	244.8	254.4	263.9	272.4	280.8	274.7	210.9	178.2
87.5°	99.7	113.1	113.4	113.7	115.5	117.4	120.7	124.1	116.2	89.7	76.3
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: P966330

CATALOG NUMBER: NAV-SB4B-835-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9	2939.9
2.5°	3009.6	3035.5	3061.5	3087.2	3113.0	3137.3	3161.5
5°	3078.1	3131.8	3185.6	3238.9	3292.4	3346.0	3399.5
7.5°	3139.6	3219.1	3298.6	3380.2	3461.9	3550.3	3638.7
10°	3189.4	3286.0	3382.6	3490.5	3598.5	3710.3	3822.0
12.5°	3216.2	3330.2	3444.1	3566.4	3688.7	3811.5	3934.3
15°	3218.7	3349.9	3481.1	3613.8	3746.5	3874.5	4002.5
17.5°	3187.1	3339.4	3491.8	3636.5	3781.2	3911.1	4040.9
20°	3126.0	3310.5	3495.1	3654.2	3813.2	3948.3	4083.2
22.5°	3050.6	3275.2	3499.7	3678.1	3856.5	3994.4	4132.3
25°	2963.0	3240.1	3517.5	3721.4	3925.2	4060.3	4195.4
27.5°	2878.9	3216.9	3554.7	3789.1	4023.4	4152.4	4281.2
30°	2805.8	3205.9	3605.6	3876.8	4147.9	4272.3	4396.8
32.5°	2734.8	3192.4	3649.6	3968.3	4286.9	4410.1	4533.3
35°	2652.0	3166.8	3681.9	4072.5	4463.1	4581.1	4699.1
37.5°	2545.3	3123.2	3701.1	4189.3	4677.4	4827.9	4978.3
40°	2413.1	3063.0	3713.2	4337.5	4961.6	5181.0	5400.3
42.5°	2266.2	3001.0	3736.1	4531.4	5326.7	5643.2	5959.9
45°	2110.5	2943.4	3776.3	4786.5	5796.8	6223.8	6650.8
47.5°	1987.5	2895.7	3804.0	5058.5	6312.9	6913.9	7514.9
50°	1901.8	2843.9	3785.9	5310.7	6835.4	7741.5	8647.5
52.5°	1837.7	2756.2	3674.8	5474.5	7274.0	8610.9	9947.7
55°	1776.5	2610.9	3445.2	5438.4	7431.5	9381.6	11331.9
57.5°	1708.0	2406.1	3104.0	5184.3	7264.8	9927.8	12590.9
60°	1633.7	2140.0	2646.3	4711.5	6776.8	10064.4	13351.8
62.5°	1512.6	1821.6	2130.8	4072.2	6013.8	9489.6	12965.4
65°	1390.9	1535.2	1679.6	3420.0	5160.6	8676.3	12192.1
67.5°	1218.9	1260.0	1300.9	2781.0	4261.1	7708.5	11155.9
70°	1008.8	997.1	985.4	2189.7	3393.9	6652.5	9911.0
72.5°	830.9	795.4	760.1	1674.0	2587.9	5507.6	8427.6
75°	654.3	622.3	590.2	1214.9	1839.8	4195.3	6551.0
77.5°	498.0	476.2	454.4	823.3	1192.2	2936.3	4680.6
80°	358.7	349.7	340.7	530.4	720.3	1891.8	3063.4
82.5°	246.8	245.0	243.4	326.3	409.3	1094.9	1780.7
85°	145.5	146.5	147.2	174.5	201.7	492.5	783.5
87.5°	62.9	63.8	64.6	72.3	80.1	161.3	242.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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