

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: P969244

Luminaire Tested: **NAV-SB5D-727-U-SLL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969244  
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-SB5D-727-U-SLL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

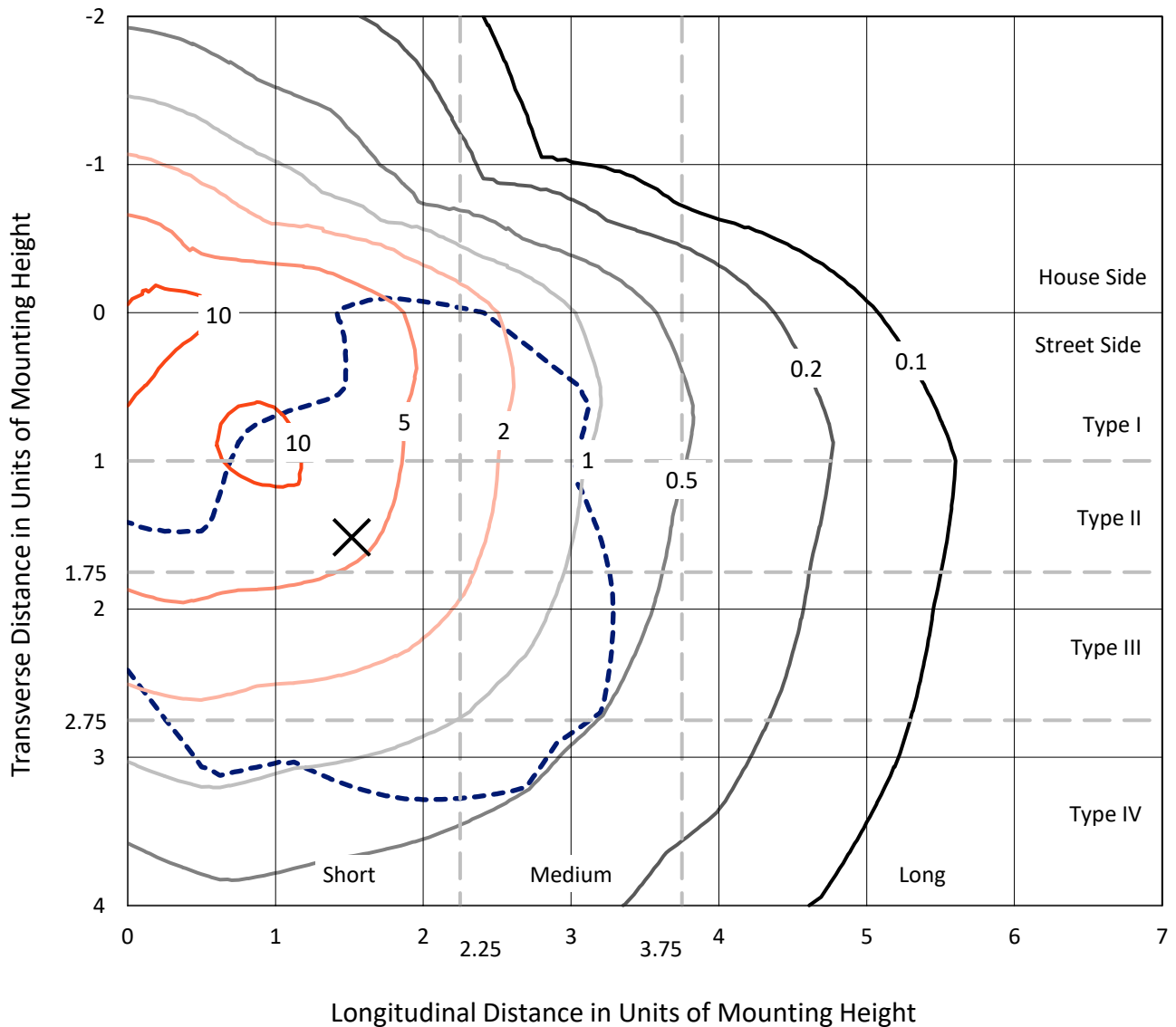
Lumens per Lamp: N/A  
Luminaire Lumens: 48695.7 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

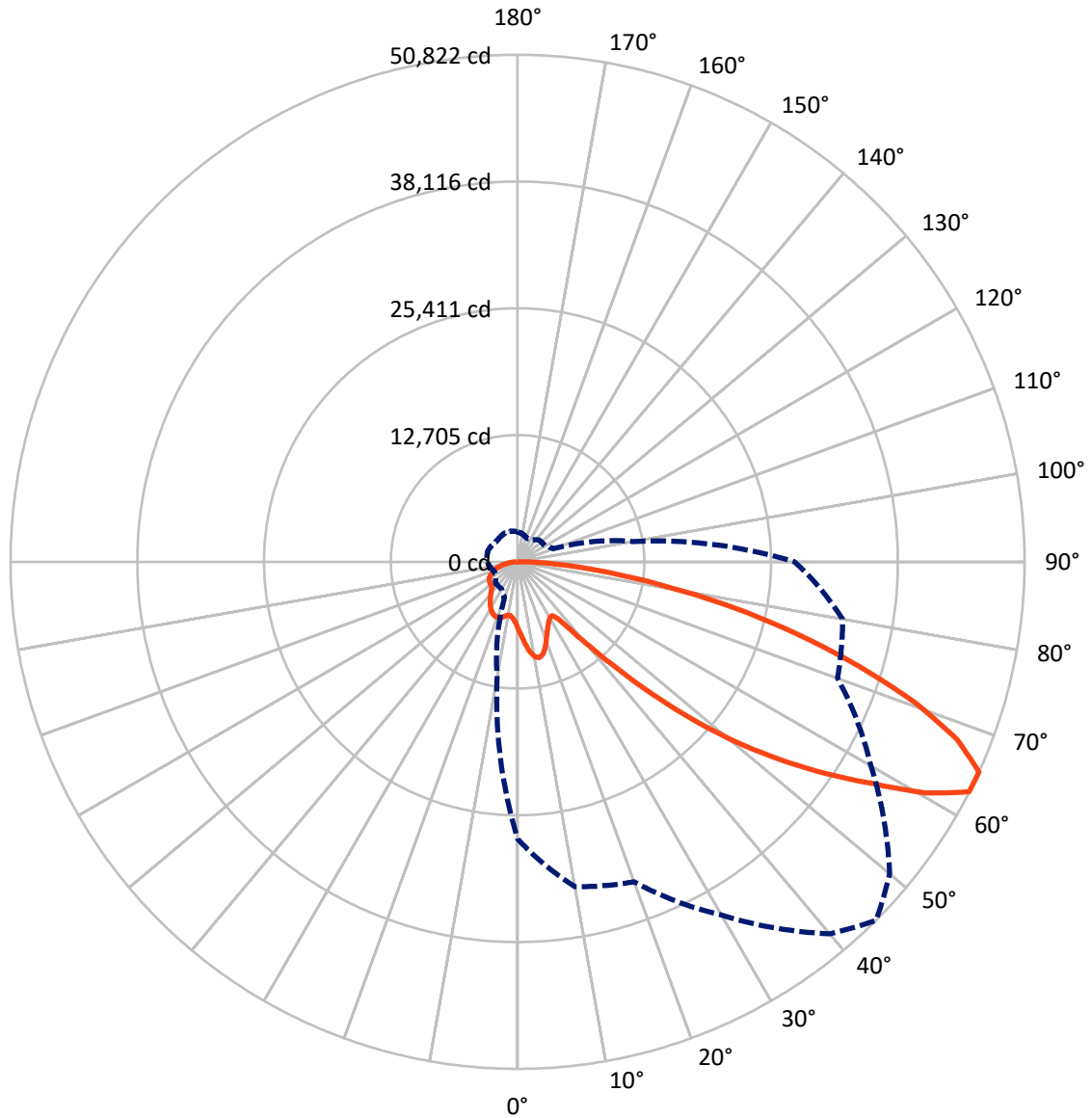
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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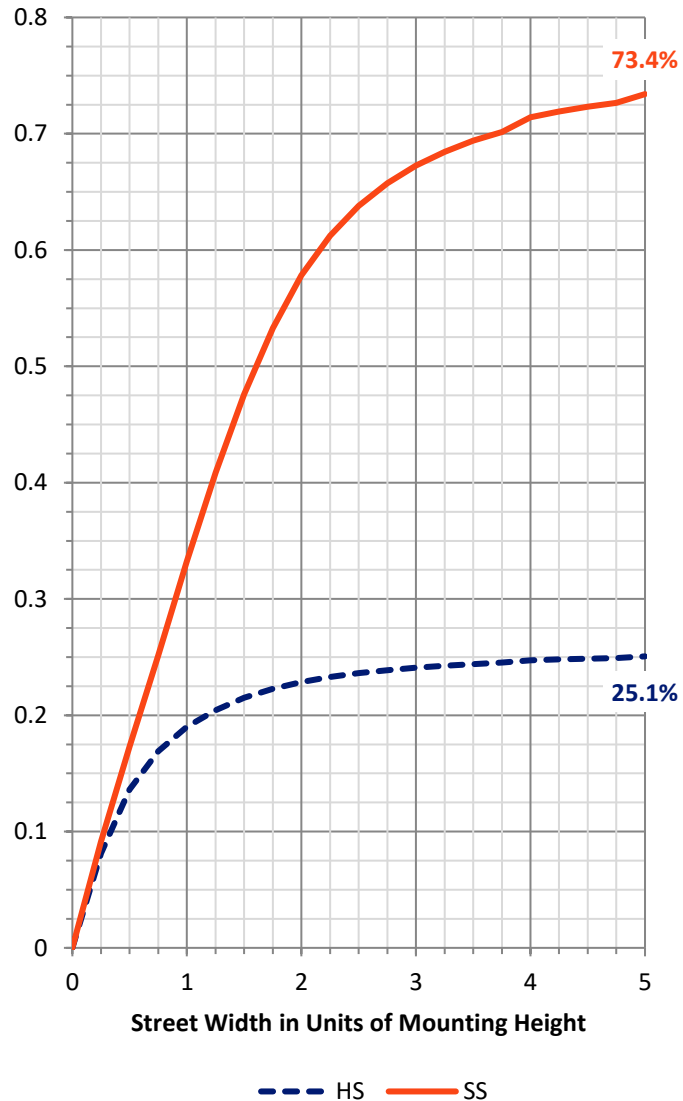
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12376.0	0.0	12376.0
	% Fixture	25.4	0.0	25.4
<b>Street Side</b>	Lumens	36319.7	0.0	36319.7
	% Fixture	74.6	0.0	74.6
<b>Total</b>	Lumens	48695.7	0.0	48695.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.2	1.4
10°-20°	2085.2	4.3
20°-30°	3220.9	6.6
30°-40°	4081.7	8.4
40°-50°	6156.3	12.6
50°-60°	9946.3	20.4
60°-70°	12399.7	25.5
70°-80°	8131.1	16.7
80°-90°	2010.2	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°	48695.7	100.0
0°-180°	48695.7	100.0

**Coefficient of Utilization**



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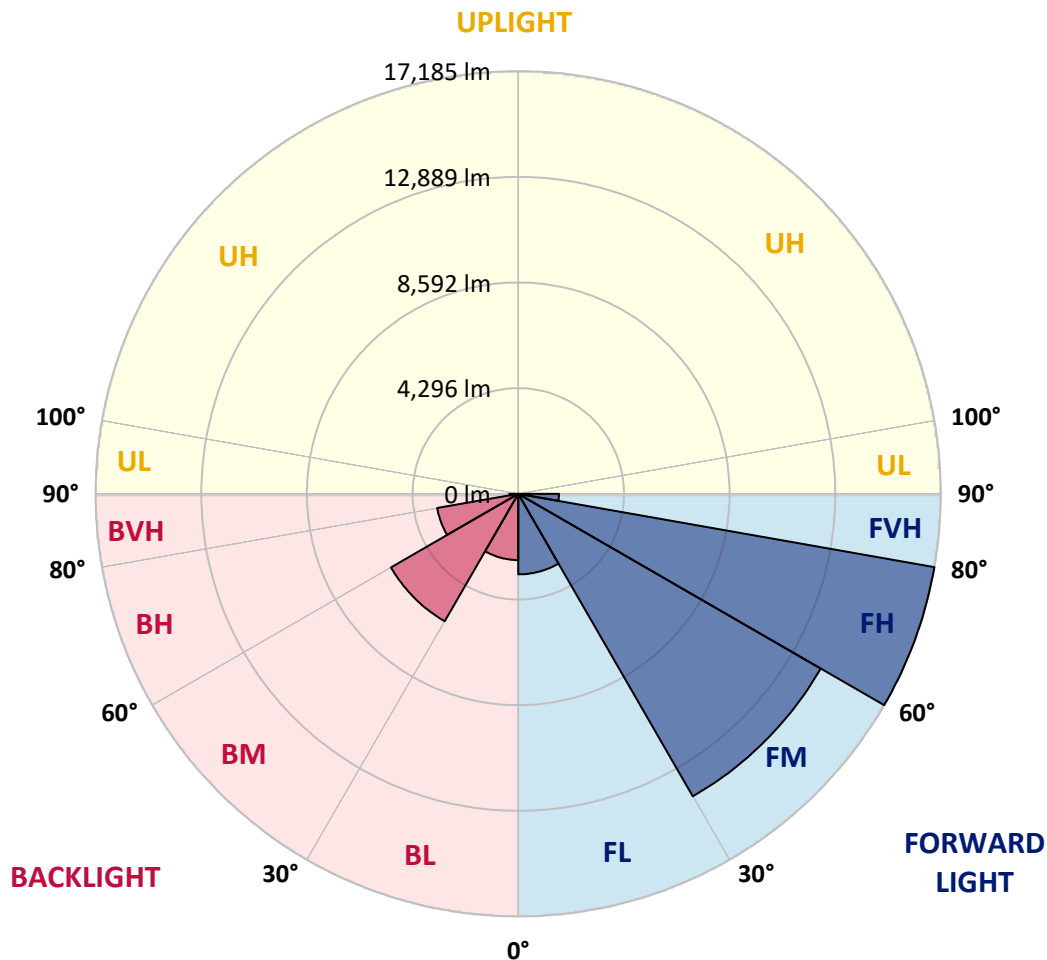
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3275.3	6.7			
FM (30°-60°)	14203.5	29.2			
FH (60°-80°)	17184.9	35.3			G5
FVH (80°-90°)	1656.0	3.4			G5
BL (0°-30°)	2695.0	5.5	B4/5000		
BM (30°-60°)	5980.8	12.3	B4/8500		
BH (60°-80°)	3345.9	6.9	B4/5000		G4/5000
BVH (80°-90°)	354.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1
2.5°	7200.9	7228.2	7255.7	7294.5	7333.3	7356.4	7379.6	7391.2	7402.7	7397.5	7402.7
5°	7743.2	7838.5	7934.0	8028.6	8123.4	8174.8	8226.2	8257.3	8288.7	8312.2	8288.7
7.5°	8287.8	8443.0	8598.0	8737.5	8877.0	8961.1	9045.1	9090.6	9135.8	9157.7	9135.8
10°	8705.4	8888.9	9072.4	9236.0	9399.7	9498.9	9597.6	9641.8	9685.6	9702.3	9685.6
12.5°	8961.1	9159.9	9358.6	9506.6	9654.1	9726.0	9798.0	9822.1	9846.3	9848.8	9846.3
15°	9116.6	9288.1	9459.5	9552.3	9645.4	9647.9	9650.5	9624.8	9599.1	9568.8	9599.1
17.5°	9203.9	9319.8	9435.6	9437.5	9439.0	9335.0	9230.8	9135.5	9040.0	8972.6	9040.0
20°	9300.2	9340.6	9381.2	9259.1	9137.1	8907.4	8677.6	8510.4	8343.1	8240.4	8343.1
22.5°	9412.1	9359.1	9306.2	9053.3	8800.4	8462.6	8124.7	7915.6	7706.4	7592.8	7706.4
25°	9555.9	9388.9	9221.9	8838.0	8454.1	8043.8	7633.4	7413.5	7194.1	7086.6	7194.1
27.5°	9751.2	9452.7	9153.8	8645.3	8137.1	7682.3	7227.5	7011.1	6795.0	6693.6	6795.0
30°	10014.6	9569.3	9124.2	8498.3	7872.4	7398.6	6924.8	6724.1	6523.4	6428.9	6523.4
32.5°	10325.4	9715.8	9106.3	8398.1	7690.0	7244.7	6799.3	6641.9	6484.0	6416.0	6484.0
35°	10703.2	9957.1	9211.1	8473.2	7735.5	7426.0	7117.0	7080.2	7043.5	7037.9	7043.5
37.5°	11339.2	10461.4	9583.6	8913.0	8242.4	8222.3	8202.4	8370.4	8538.4	8625.8	8538.4
40°	12300.1	11345.5	10391.0	9892.3	9393.5	9745.5	10097.6	10506.1	10914.6	11118.2	10914.6
42.5°	13574.6	12627.5	11680.4	11393.1	11105.9	11873.6	12641.3	13384.4	14127.6	14563.8	14127.6
45°	15148.4	14297.6	13446.7	13320.0	13193.0	14423.1	15653.3	16874.4	18095.6	18836.9	18095.6
47.5°	17116.6	16289.0	15461.1	15435.4	15409.7	17184.2	18958.2	20745.8	22533.1	23582.7	22533.1
50°	19696.4	18674.0	17651.8	17656.2	17660.5	19947.4	22234.3	24593.8	26953.4	28380.0	26953.4
52.5°	22657.7	21419.7	20182.0	20056.9	19931.5	22663.2	25394.8	28314.2	31233.4	32943.4	31233.4
55°	25810.5	24587.4	23364.4	22876.4	22388.5	25428.6	28468.7	31948.9	35429.3	37463.1	35429.3
57.5°	28678.1	28012.0	27345.8	26367.0	25388.5	28458.3	31528.1	35470.2	39412.1	41934.0	39412.1
60°	30411.1	31445.6	32480.3	31265.0	30049.6	32954.7	35859.7	40080.4	44301.0	47026.7	44301.0
62.5°	29531.1	32357.8	35184.5	35047.5	34910.3	37571.5	40233.0	44248.6	48264.0	50783.3	48264.0
65°	27769.7	30422.7	33075.7	33600.6	34125.3	37507.3	40889.5	44783.3	48676.8	50821.9	48676.8
67.5°	25409.6	27932.9	30456.1	30702.2	30948.1	34472.0	37995.5	41906.0	45816.5	47497.0	45816.5
70°	22574.2	25318.6	28063.4	28173.4	28283.6	31434.8	34585.8	37951.0	41316.0	42250.1	41316.0
72.5°	19195.4	22344.8	25494.4	25573.5	25652.5	28117.9	30583.3	33103.7	35623.9	35718.4	35623.9
75°	14921.0	18180.6	21440.3	21733.0	22025.6	23943.8	25861.9	27636.0	29410.3	28934.9	29410.3
77.5°	10660.8	13703.5	16746.7	17165.5	17584.3	19042.4	20500.6	21758.9	23017.4	22200.4	23017.4
80°	6977.5	9537.4	12097.2	12617.7	13138.2	14239.6	15340.4	16001.2	16661.8	15347.5	16661.8
82.5°	4055.9	5806.0	7556.3	8137.8	8719.6	9477.6	10235.5	10511.3	10786.7	9753.8	10786.7
85°	1784.5	2713.4	3642.2	4136.9	4631.5	5254.4	5876.9	6033.5	6189.9	5362.5	6189.9
87.5°	552.5	864.6	1176.8	1452.8	1728.8	2040.2	2351.6	2365.0	2378.1	1996.5	2378.1
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°	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1
2.5°	7391.2	7379.6	7356.4	7333.3	7294.5	7255.7	7228.2	7200.9	7145.8	7090.5	7031.6
5°	8257.3	8226.2	8174.8	8123.4	8028.6	7934.0	7838.5	7743.2	7621.1	7499.0	7377.2
7.5°	9090.6	9045.1	8961.1	8877.0	8737.5	8598.0	8443.0	8287.8	8086.4	7885.2	7699.2
10°	9641.8	9597.6	9498.9	9399.7	9236.0	9072.4	8888.9	8705.4	8450.8	8196.1	7950.2
12.5°	9822.1	9798.0	9726.0	9654.1	9506.6	9358.6	9159.9	8961.1	8681.2	8401.7	8123.1
15°	9624.8	9650.5	9647.9	9645.4	9552.3	9459.5	9288.1	9116.6	8824.9	8533.2	8231.1
17.5°	9135.5	9230.8	9335.0	9439.0	9437.5	9435.6	9319.8	9203.9	8908.2	8612.4	8282.7
20°	8510.4	8677.6	8907.4	9137.1	9259.1	9381.2	9340.6	9300.2	8992.9	8685.3	8323.1
22.5°	7915.6	8124.7	8462.6	8800.4	9053.3	9306.2	9359.1	9412.1	9098.0	8783.7	8377.5
25°	7413.5	7633.4	8043.8	8454.1	8838.0	9221.9	9388.9	9555.9	9248.1	8940.6	8476.2
27.5°	7011.1	7227.5	7682.3	8137.1	8645.3	9153.8	9452.7	9751.2	9457.8	9164.1	8630.4
30°	6724.1	6924.8	7398.6	7872.4	8498.3	9124.2	9569.3	10014.6	9730.9	9447.5	8830.1
32.5°	6641.9	6799.3	7244.7	7690.0	8398.1	9106.3	9715.8	10325.4	10044.6	9764.0	9038.4
35°	7080.2	7117.0	7426.0	7735.5	8473.2	9211.1	9957.1	10703.2	10434.4	10165.4	9275.8
37.5°	8370.4	8202.4	8222.3	8242.4	8913.0	9583.6	10461.4	11339.2	10996.4	10653.6	9541.8
40°	10506.1	10097.6	9745.5	9393.5	9892.3	10391.0	11345.5	12300.1	11800.6	11301.1	9879.5
42.5°	13384.4	12641.3	11873.6	11105.9	11393.1	11680.4	12627.5	13574.6	12853.6	12132.6	10321.1
45°	16874.4	15653.3	14423.1	13193.0	13320.0	13446.7	14297.6	15148.4	14175.9	13203.3	10902.3
47.5°	20745.8	18958.2	17184.2	15409.7	15435.4	15461.1	16289.0	17116.6	15747.9	14378.8	11521.6
50°	24593.8	22234.3	19947.4	17660.5	17656.2	17651.8	18674.0	19696.4	17632.9	15569.0	12096.1
52.5°	28314.2	25394.8	22663.2	19931.5	20056.9	20182.0	21419.7	22657.7	19612.9	16568.0	12469.2
55°	31948.9	28468.7	25428.6	22388.5	22876.4	23364.4	24587.4	25810.5	21368.4	16926.4	12387.0
57.5°	35470.2	31528.1	28458.3	25388.5	26367.0	27345.8	28012.0	28678.1	22612.5	16547.0	11808.3
60°	40080.4	35859.7	32954.7	30049.6	31265.0	32480.3	31445.6	30411.1	22923.4	15435.4	10731.4
62.5°	44248.6	40233.0	37571.5	34910.3	35047.5	35184.5	32357.8	29531.1	21614.3	13697.4	9275.3
65°	44783.3	40889.5	37507.3	34125.3	33600.6	33075.7	30422.7	27769.7	19761.9	11754.1	7789.7
67.5°	41906.0	37995.5	34472.0	30948.1	30702.2	30456.1	27932.9	25409.6	17557.5	9705.4	6334.3
70°	37951.0	34585.8	31434.8	28283.6	28173.4	28063.4	25318.6	22574.2	15152.3	7730.3	4987.3
72.5°	33103.7	30583.3	28117.9	25652.5	25573.5	25494.4	22344.8	19195.4	12544.8	5894.4	3812.9
75°	27636.0	25861.9	23943.8	22025.6	21733.0	21440.3	18180.6	14921.0	9555.7	4190.3	2767.3
77.5°	21758.9	20500.6	19042.4	17584.3	17165.5	16746.7	13703.5	10660.8	6688.1	2715.4	1875.2
80°	16001.2	15340.4	14239.6	13138.2	12617.7	12097.2	9537.4	6977.5	4309.0	1640.6	1208.2
82.5°	10511.3	10235.5	9477.6	8719.6	8137.8	7556.3	5806.0	4055.9	2493.9	932.2	743.1
85°	6033.5	5876.9	5254.4	4631.5	4136.9	3642.2	2713.4	1784.5	1121.9	459.4	397.3
87.5°	2365.0	2351.6	2040.2	1728.8	1452.8	1176.8	864.6	552.5	367.5	182.4	164.7
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°	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1
2.5°	6973.1	6913.9	6854.9	6798.3	6741.8	6687.1	6626.2	6576.8	6527.8	6483.3	6439.2
5°	7255.7	7133.2	7010.8	6896.5	6782.1	6674.3	6567.6	6474.6	6381.3	6303.2	6225.3
7.5°	7513.1	7332.0	7150.9	6991.3	6831.7	6684.5	6546.6	6422.6	6299.1	6196.3	6093.5
10°	7704.6	7484.7	7264.5	7075.9	6886.8	6705.0	6556.8	6426.2	6295.8	6192.9	6090.2
12.5°	7844.6	7585.1	7325.6	7112.1	6898.6	6707.6	6569.6	6462.7	6356.4	6288.1	6220.2
15°	7928.9	7630.1	7331.2	7084.1	6836.9	6625.4	6514.9	6463.8	6412.9	6422.1	6431.5
17.5°	7953.1	7606.2	7259.4	6962.0	6664.8	6416.0	6347.9	6366.7	6385.1	6497.2	6609.2
20°	7960.8	7540.4	7120.1	6751.6	6383.1	6093.5	6075.6	6162.9	6250.2	6444.8	6639.5
22.5°	7971.0	7459.7	6948.4	6504.6	6060.9	5731.3	5766.4	5895.7	6025.0	6247.0	6469.5
25°	8011.6	7380.1	6748.7	6228.9	5709.4	5371.5	5466.5	5615.6	5764.6	5964.3	6164.1
27.5°	8096.5	7326.9	6557.3	5976.9	5396.4	5088.8	5204.5	5348.3	5492.3	5656.5	5820.4
30°	8212.6	7302.0	6390.8	5766.1	5141.5	4883.3	4974.0	5088.1	5202.7	5338.9	5475.0
32.5°	8312.8	7271.1	6228.9	5584.5	4939.9	4731.7	4772.1	4839.6	4907.2	5015.9	5124.8
35°	8386.2	7213.0	6040.3	5406.0	4771.6	4598.0	4581.4	4599.9	4618.6	4701.7	4784.4
37.5°	8430.0	7113.6	5797.3	5195.7	4594.3	4442.7	4381.5	4361.0	4340.4	4400.0	4459.4
40°	8457.5	6976.7	5496.2	4945.0	4393.9	4256.3	4162.5	4116.1	4069.6	4112.5	4155.3
42.5°	8509.7	6835.3	5161.6	4668.3	4174.9	4048.2	3930.1	3868.3	3806.6	3841.6	3876.9
45°	8601.4	6704.0	4806.9	4374.3	3941.6	3813.1	3698.8	3638.6	3578.8	3608.1	3637.8
47.5°	8664.3	6595.6	4526.9	4141.7	3756.6	3590.9	3492.5	3442.1	3391.7	3419.5	3447.0
50°	8623.2	6477.4	4331.6	3987.4	3643.1	3425.1	3310.7	3266.1	3221.6	3264.8	3308.2
52.5°	8370.0	6277.7	4185.7	3885.6	3585.8	3335.1	3175.3	3131.2	3087.2	3152.3	3217.0
55°	7847.2	5946.8	4046.4	3811.9	3577.2	3344.2	3103.4	3033.5	2963.9	3056.1	3148.1
57.5°	7069.9	5480.2	3890.2	3724.4	3558.7	3353.2	3060.2	2958.5	2856.8	2955.9	3055.1
60°	6027.5	4874.3	3721.2	3590.9	3460.6	3324.9	3019.6	2887.8	2755.8	2842.8	2929.8
62.5°	4853.3	4149.2	3445.1	3358.6	3272.2	3255.5	2972.4	2807.4	2642.8	2698.0	2753.3
65°	3825.4	3496.8	3168.2	3127.3	3086.5	3088.5	2872.7	2697.5	2521.9	2543.2	2564.3
67.5°	2963.2	2869.9	2776.3	2799.2	2821.8	2816.2	2694.8	2549.0	2403.0	2396.3	2389.6
70°	2244.4	2271.2	2297.6	2403.5	2509.1	2509.1	2469.2	2365.5	2261.7	2238.5	2215.4
72.5°	1731.3	1811.8	1892.5	2042.5	2192.3	2217.5	2218.0	2146.8	2075.6	2041.7	2008.1
75°	1344.4	1417.4	1490.4	1658.3	1826.3	1942.6	1932.7	1878.0	1823.1	1790.7	1758.1
77.5°	1034.9	1084.6	1134.5	1297.5	1460.7	1652.2	1647.1	1603.1	1559.1	1526.2	1493.4
80°	776.0	796.5	817.1	955.3	1093.3	1322.0	1321.2	1284.5	1247.5	1220.0	1192.3
82.5°	554.5	558.1	562.2	664.0	765.7	960.9	971.8	953.8	935.8	916.2	896.8
85°	335.3	333.5	331.5	406.0	480.5	625.7	639.8	620.5	601.3	579.4	557.6
87.5°	147.0	145.1	143.4	173.7	204.3	264.7	282.6	274.9	267.2	263.1	259.0
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: P969244  
 CATALOG NUMBER: NAV-SB5D-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1
2.5°	6400.3	6361.6	6322.5	6283.7	6253.6	6223.3	6198.9	6174.5	6155.4	6136.5	6118.9
5°	6156.5	6087.6	6025.2	5962.5	5914.5	5866.2	5832.5	5798.8	5775.0	5751.1	5732.8
7.5°	6006.9	5920.1	5843.5	5767.2	5709.9	5652.9	5612.8	5572.7	5545.2	5518.0	5501.5
10°	5997.0	5903.4	5817.3	5731.3	5662.9	5594.2	5549.6	5504.4	5478.4	5452.5	5438.5
12.5°	6146.7	6073.7	5984.6	5895.7	5808.4	5720.9	5663.1	5605.3	5576.3	5547.5	5535.7
15°	6412.4	6393.4	6316.0	6238.7	6114.3	5990.0	5902.2	5814.2	5773.9	5733.8	5718.4
17.5°	6668.9	6728.2	6665.8	6603.6	6438.8	6274.1	6144.7	6015.2	5955.6	5895.7	5876.1
20°	6764.2	6888.8	6860.0	6831.0	6642.6	6454.5	6295.8	6137.2	6060.9	5984.4	5960.0
22.5°	6631.5	6793.7	6811.2	6828.4	6648.6	6468.7	6305.3	6141.6	6061.1	5980.5	5953.5
25°	6323.7	6483.3	6543.0	6602.3	6454.8	6307.5	6162.1	6017.3	5947.4	5877.7	5852.2
27.5°	5948.4	6076.3	6142.6	6209.1	6104.1	5999.2	5886.5	5773.6	5726.9	5679.8	5668.2
30°	5581.2	5687.5	5741.5	5795.5	5715.6	5635.3	5554.7	5473.5	5449.6	5425.4	5425.4
32.5°	5226.6	5328.6	5388.4	5448.6	5375.1	5301.4	5236.8	5172.4	5156.7	5141.0	5143.0
35°	4885.2	4986.1	5058.1	5130.0	5077.5	5025.4	4965.8	4906.5	4882.5	4858.9	4853.8
37.5°	4559.8	4660.6	4749.4	4838.3	4814.2	4790.0	4735.3	4680.4	4636.9	4593.7	4570.9
40°	4252.5	4349.6	4451.9	4554.4	4560.3	4566.0	4519.4	4473.0	4409.8	4347.0	4304.4
42.5°	3968.8	4061.0	4171.5	4282.0	4311.6	4341.2	4301.8	4262.8	4184.4	4106.0	4044.1
45°	3725.3	3812.6	3927.2	4041.8	4084.2	4126.5	4091.2	4055.9	3966.2	3876.9	3804.1
47.5°	3532.6	3617.8	3730.9	3844.0	3892.7	3941.6	3916.9	3892.2	3812.6	3732.9	3665.6
50°	3388.9	3469.3	3570.6	3671.8	3734.5	3797.2	3795.7	3794.7	3730.9	3667.1	3605.0
52.5°	3291.0	3364.8	3459.1	3553.6	3627.9	3702.1	3715.5	3728.8	3677.0	3625.0	3569.3
55°	3227.8	3307.5	3390.2	3472.7	3551.3	3630.1	3648.7	3667.1	3621.9	3576.7	3527.9
57.5°	3148.7	3242.2	3323.9	3405.9	3485.2	3564.4	3583.2	3602.0	3556.1	3510.4	3462.1
60°	3037.2	3144.5	3227.5	3310.7	3390.4	3470.1	3490.6	3511.2	3466.4	3422.1	3372.1
62.5°	2878.3	3003.8	3092.4	3181.0	3254.0	3326.9	3346.7	3366.5	3326.2	3285.8	3233.5
65°	2698.5	2832.9	2917.7	3002.4	3066.7	3131.0	3151.3	3171.2	3132.5	3093.7	3042.8
67.5°	2513.5	2637.5	2718.0	2798.1	2853.7	2909.2	2928.9	2948.5	2912.7	2877.3	2830.0
70°	2324.4	2433.4	2502.6	2572.0	2622.2	2672.3	2691.2	2710.3	2681.3	2652.2	2607.0
72.5°	2093.9	2179.5	2242.1	2304.8	2353.9	2403.0	2425.6	2448.2	2424.0	2399.9	2356.8
75°	1821.7	1885.5	1942.3	1999.1	2043.7	2088.4	2112.1	2135.8	2123.9	2112.1	2075.9
77.5°	1545.3	1596.9	1645.7	1694.5	1741.6	1788.3	1810.5	1832.6	1816.1	1799.2	1762.7
80°	1235.4	1278.3	1319.4	1360.6	1396.3	1431.7	1461.0	1490.4	1483.1	1476.2	1427.1
82.5°	893.2	889.6	875.1	860.8	936.8	1012.9	1062.7	1112.6	1109.5	1106.2	1064.8
85°	539.0	520.3	480.5	440.6	511.9	583.2	644.9	706.6	701.5	696.3	664.0
87.5°	258.2	257.5	227.1	196.6	226.4	256.5	281.4	306.3	300.1	293.5	277.0
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: P969244  
 CATALOG NUMBER: NAV-SB5D-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1
2.5°	6101.2	6079.4	6101.2	6118.9	6136.5	6155.4	6174.5	6198.9	6223.3	6253.6	6283.7
5°	5714.6	5696.5	5714.6	5732.8	5751.1	5775.0	5798.8	5832.5	5866.2	5914.5	5962.5
7.5°	5485.3	5473.0	5485.3	5501.5	5518.0	5545.2	5572.7	5612.8	5652.9	5709.9	5767.2
10°	5424.7	5419.1	5424.7	5438.5	5452.5	5478.4	5504.4	5549.6	5594.2	5662.9	5731.3
12.5°	5523.9	5521.8	5523.9	5535.7	5547.5	5576.3	5605.3	5663.1	5720.9	5808.4	5895.7
15°	5703.0	5701.7	5703.0	5718.4	5733.8	5773.9	5814.2	5902.2	5990.0	6114.3	6238.7
17.5°	5856.3	5853.3	5856.3	5876.1	5895.7	5955.6	6015.2	6144.7	6274.1	6438.8	6603.6
20°	5935.5	5927.8	5935.5	5960.0	5984.4	6060.9	6137.2	6295.8	6454.5	6642.6	6831.0
22.5°	5926.5	5915.0	5926.5	5953.5	5980.5	6061.1	6141.6	6305.3	6468.7	6648.6	6828.4
25°	5827.1	5812.2	5827.1	5852.2	5877.7	5947.4	6017.3	6162.1	6307.5	6454.8	6602.3
27.5°	5656.8	5652.9	5656.8	5668.2	5679.8	5726.9	5773.6	5886.5	5999.2	6104.1	6209.1
30°	5425.4	5429.3	5425.4	5425.4	5425.4	5449.6	5473.5	5554.7	5635.3	5715.6	5795.5
32.5°	5145.4	5149.3	5145.4	5143.0	5141.0	5156.7	5172.4	5236.8	5301.4	5375.1	5448.6
35°	4848.7	4846.1	4848.7	4853.8	4858.9	4882.5	4906.5	4965.8	5025.4	5077.5	5130.0
37.5°	4548.0	4535.1	4548.0	4570.9	4593.7	4636.9	4680.4	4735.3	4790.0	4814.2	4838.3
40°	4262.3	4237.0	4262.3	4304.4	4347.0	4409.8	4473.0	4519.4	4566.0	4560.3	4554.4
42.5°	3982.2	3941.6	3982.2	4044.1	4106.0	4184.4	4262.8	4301.8	4341.2	4311.6	4282.0
45°	3731.4	3684.7	3731.4	3804.1	3876.9	3966.2	4055.9	4091.2	4126.5	4084.2	4041.8
47.5°	3598.6	3553.6	3598.6	3665.6	3732.9	3812.6	3892.2	3916.9	3941.6	3892.7	3844.0
50°	3542.8	3499.7	3542.8	3605.0	3667.1	3730.9	3794.7	3795.7	3797.2	3734.5	3671.8
52.5°	3513.8	3473.9	3513.8	3569.3	3625.0	3677.0	3728.8	3715.5	3702.1	3627.9	3553.6
55°	3479.1	3443.1	3479.1	3527.9	3576.7	3621.9	3667.1	3648.7	3630.1	3551.3	3472.7
57.5°	3413.6	3376.4	3413.6	3462.1	3510.4	3556.1	3602.0	3583.2	3564.4	3485.2	3405.9
60°	3322.3	3283.8	3322.3	3372.1	3422.1	3466.4	3511.2	3490.6	3470.1	3390.4	3310.7
62.5°	3181.0	3134.8	3181.0	3233.5	3285.8	3326.2	3366.5	3346.7	3326.9	3254.0	3181.0
65°	2992.2	2952.3	2992.2	3042.8	3093.7	3132.5	3171.2	3151.3	3131.0	3066.7	3002.4
67.5°	2782.8	2746.8	2782.8	2830.0	2877.3	2912.7	2948.5	2928.9	2909.2	2853.7	2798.1
70°	2561.8	2520.7	2561.8	2607.0	2652.2	2681.3	2710.3	2691.2	2672.3	2622.2	2572.0
72.5°	2313.8	2274.0	2313.8	2356.8	2399.9	2424.0	2448.2	2425.6	2403.0	2353.9	2304.8
75°	2039.6	2001.6	2039.6	2075.9	2112.1	2123.9	2135.8	2112.1	2088.4	2043.7	1999.1
77.5°	1726.2	1695.9	1726.2	1762.7	1799.2	1816.1	1832.6	1810.5	1788.3	1741.6	1694.5
80°	1377.8	1320.7	1377.8	1427.1	1476.2	1483.1	1490.4	1461.0	1431.7	1396.3	1360.6
82.5°	1023.2	986.7	1023.2	1064.8	1106.2	1109.5	1112.6	1062.7	1012.9	936.8	860.8
85°	631.6	598.7	631.6	664.0	696.3	701.5	706.6	644.9	583.2	511.9	440.6
87.5°	260.0	244.1	260.0	277.0	293.5	300.1	306.3	281.4	256.5	226.4	196.6
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: P969244  
 CATALOG NUMBER: NAV-SB5D-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1
2.5°	6322.5	6361.6	6400.3	6439.2	6483.3	6527.8	6576.8	6626.2	6687.1	6741.8	6798.3
5°	6025.2	6087.6	6156.5	6225.3	6303.2	6381.3	6474.6	6567.6	6674.3	6782.1	6896.5
7.5°	5843.5	5920.1	6006.9	6093.5	6196.3	6299.1	6422.6	6546.6	6684.5	6831.7	6991.3
10°	5817.3	5903.4	5997.0	6090.2	6192.9	6295.8	6426.2	6556.8	6705.0	6886.8	7075.9
12.5°	5984.6	6073.7	6146.7	6220.2	6288.1	6356.4	6462.7	6569.6	6707.6	6898.6	7112.1
15°	6316.0	6393.4	6412.4	6431.5	6422.1	6412.9	6463.8	6514.9	6625.4	6836.9	7084.1
17.5°	6665.8	6728.2	6668.9	6609.2	6497.2	6385.1	6366.7	6347.9	6416.0	6664.8	6962.0
20°	6860.0	6888.8	6764.2	6639.5	6444.8	6250.2	6162.9	6075.6	6093.5	6383.1	6751.6
22.5°	6811.2	6793.7	6631.5	6469.5	6247.0	6025.0	5895.7	5766.4	5731.3	6060.9	6504.6
25°	6543.0	6483.3	6323.7	6164.1	5964.3	5764.6	5615.6	5466.5	5371.5	5709.4	6228.9
27.5°	6142.6	6076.3	5948.4	5820.4	5656.5	5492.3	5348.3	5204.5	5088.8	5396.4	5976.9
30°	5741.5	5687.5	5581.2	5475.0	5338.9	5202.7	5088.1	4974.0	4883.3	5141.5	5766.1
32.5°	5388.4	5328.6	5226.6	5124.8	5015.9	4907.2	4839.6	4772.1	4731.7	4939.9	5584.5
35°	5058.1	4986.1	4885.2	4784.4	4701.7	4618.6	4599.9	4581.4	4598.0	4771.6	5406.0
37.5°	4749.4	4660.6	4559.8	4459.4	4400.0	4340.4	4361.0	4381.5	4442.7	4594.3	5195.7
40°	4451.9	4349.6	4252.5	4155.3	4112.5	4069.6	4116.1	4162.5	4256.3	4393.9	4945.0
42.5°	4171.5	4061.0	3968.8	3876.9	3841.6	3806.6	3868.3	3930.1	4048.2	4174.9	4668.3
45°	3927.2	3812.6	3725.3	3637.8	3608.1	3578.8	3638.6	3698.8	3813.1	3941.6	4374.3
47.5°	3730.9	3617.8	3532.6	3447.0	3419.5	3391.7	3442.1	3492.5	3590.9	3756.6	4141.7
50°	3570.6	3469.3	3388.9	3308.2	3264.8	3221.6	3266.1	3310.7	3425.1	3643.1	3987.4
52.5°	3459.1	3364.8	3291.0	3217.0	3152.3	3087.2	3131.2	3175.3	3335.1	3585.8	3885.6
55°	3390.2	3307.5	3227.8	3148.1	3056.1	2963.9	3033.5	3103.4	3344.2	3577.2	3811.9
57.5°	3323.9	3242.2	3148.7	3055.1	2955.9	2856.8	2958.5	3060.2	3353.2	3558.7	3724.4
60°	3227.5	3144.5	3037.2	2929.8	2842.8	2755.8	2887.8	3019.6	3324.9	3460.6	3590.9
62.5°	3092.4	3003.8	2878.3	2753.3	2698.0	2642.8	2807.4	2972.4	3255.5	3272.2	3358.6
65°	2917.7	2832.9	2698.5	2564.3	2543.2	2521.9	2697.5	2872.7	3088.5	3086.5	3127.3
67.5°	2718.0	2637.5	2513.5	2389.6	2396.3	2403.0	2549.0	2694.8	2816.2	2821.8	2799.2
70°	2502.6	2433.4	2324.4	2215.4	2238.5	2261.7	2365.5	2469.2	2509.1	2509.1	2403.5
72.5°	2242.1	2179.5	2093.9	2008.1	2041.7	2075.6	2146.8	2218.0	2217.5	2192.3	2042.5
75°	1942.3	1885.5	1821.7	1758.1	1790.7	1823.1	1878.0	1932.7	1942.6	1826.3	1658.3
77.5°	1645.7	1596.9	1545.3	1493.4	1526.2	1559.1	1603.1	1647.1	1652.2	1460.7	1297.5
80°	1319.4	1278.3	1235.4	1192.3	1220.0	1247.5	1284.5	1321.2	1322.0	1093.3	955.3
82.5°	875.1	889.6	893.2	896.8	916.2	935.8	953.8	971.8	960.9	765.7	664.0
85°	480.5	520.3	539.0	557.6	579.4	601.3	620.5	639.8	625.7	480.5	406.0
87.5°	227.1	257.5	258.2	259.0	263.1	267.2	274.9	282.6	264.7	204.3	173.7
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: P969244  
 CATALOG NUMBER: NAV-SB5D-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1	6696.1
2.5°	6854.9	6913.9	6973.1	7031.6	7090.5	7145.8	7200.9
5°	7010.8	7133.2	7255.7	7377.2	7499.0	7621.1	7743.2
7.5°	7150.9	7332.0	7513.1	7699.2	7885.2	8086.4	8287.8
10°	7264.5	7484.7	7704.6	7950.2	8196.1	8450.8	8705.4
12.5°	7325.6	7585.1	7844.6	8123.1	8401.7	8681.2	8961.1
15°	7331.2	7630.1	7928.9	8231.1	8533.2	8824.9	9116.6
17.5°	7259.4	7606.2	7953.1	8282.7	8612.4	8908.2	9203.9
20°	7120.1	7540.4	7960.8	8323.1	8685.3	8992.9	9300.2
22.5°	6948.4	7459.7	7971.0	8377.5	8783.7	9098.0	9412.1
25°	6748.7	7380.1	8011.6	8476.2	8940.6	9248.1	9555.9
27.5°	6557.3	7326.9	8096.5	8630.4	9164.1	9457.8	9751.2
30°	6390.8	7302.0	8212.6	8830.1	9447.5	9730.9	10014.6
32.5°	6228.9	7271.1	8312.8	9038.4	9764.0	10044.6	10325.4
35°	6040.3	7213.0	8386.2	9275.8	10165.4	10434.4	10703.2
37.5°	5797.3	7113.6	8430.0	9541.8	10653.6	10996.4	11339.2
40°	5496.2	6976.7	8457.5	9879.5	11301.1	11800.6	12300.1
42.5°	5161.6	6835.3	8509.7	10321.1	12132.6	12853.6	13574.6
45°	4806.9	6704.0	8601.4	10902.3	13203.3	14175.9	15148.4
47.5°	4526.9	6595.6	8664.3	11521.6	14378.8	15747.9	17116.6
50°	4331.6	6477.4	8623.2	12096.1	15569.0	17632.9	19696.4
52.5°	4185.7	6277.7	8370.0	12469.2	16568.0	19612.9	22657.7
55°	4046.4	5946.8	7847.2	12387.0	16926.4	21368.4	25810.5
57.5°	3890.2	5480.2	7069.9	11808.3	16547.0	22612.5	28678.1
60°	3721.2	4874.3	6027.5	10731.4	15435.4	22923.4	30411.1
62.5°	3445.1	4149.2	4853.3	9275.3	13697.4	21614.3	29531.1
65°	3168.2	3496.8	3825.4	7789.7	11754.1	19761.9	27769.7
67.5°	2776.3	2869.9	2963.2	6334.3	9705.4	17557.5	25409.6
70°	2297.6	2271.2	2244.4	4987.3	7730.3	15152.3	22574.2
72.5°	1892.5	1811.8	1731.3	3812.9	5894.4	12544.8	19195.4
75°	1490.4	1417.4	1344.4	2767.3	4190.3	9555.7	14921.0
77.5°	1134.5	1084.6	1034.9	1875.2	2715.4	6688.1	10660.8
80°	817.1	796.5	776.0	1208.2	1640.6	4309.0	6977.5
82.5°	562.2	558.1	554.5	743.1	932.2	2493.9	4055.9
85°	331.5	333.5	335.3	397.3	459.4	1121.9	1784.5
87.5°	143.4	145.1	147.0	164.7	182.4	367.5	552.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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