

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: P967167

Luminaire Tested: **NAV-SB4D-730-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967167
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-SB4D-730-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41652.9 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

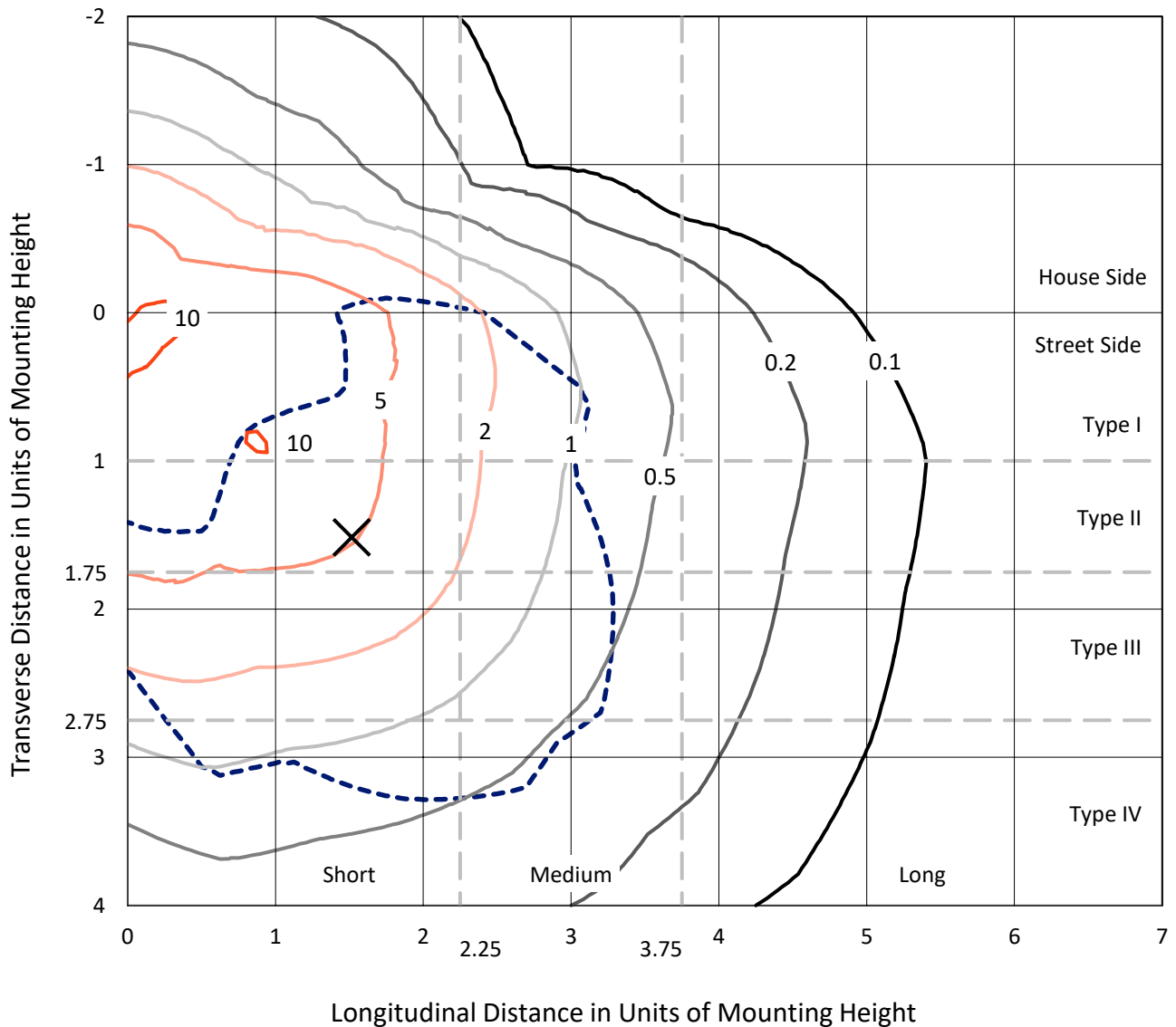
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

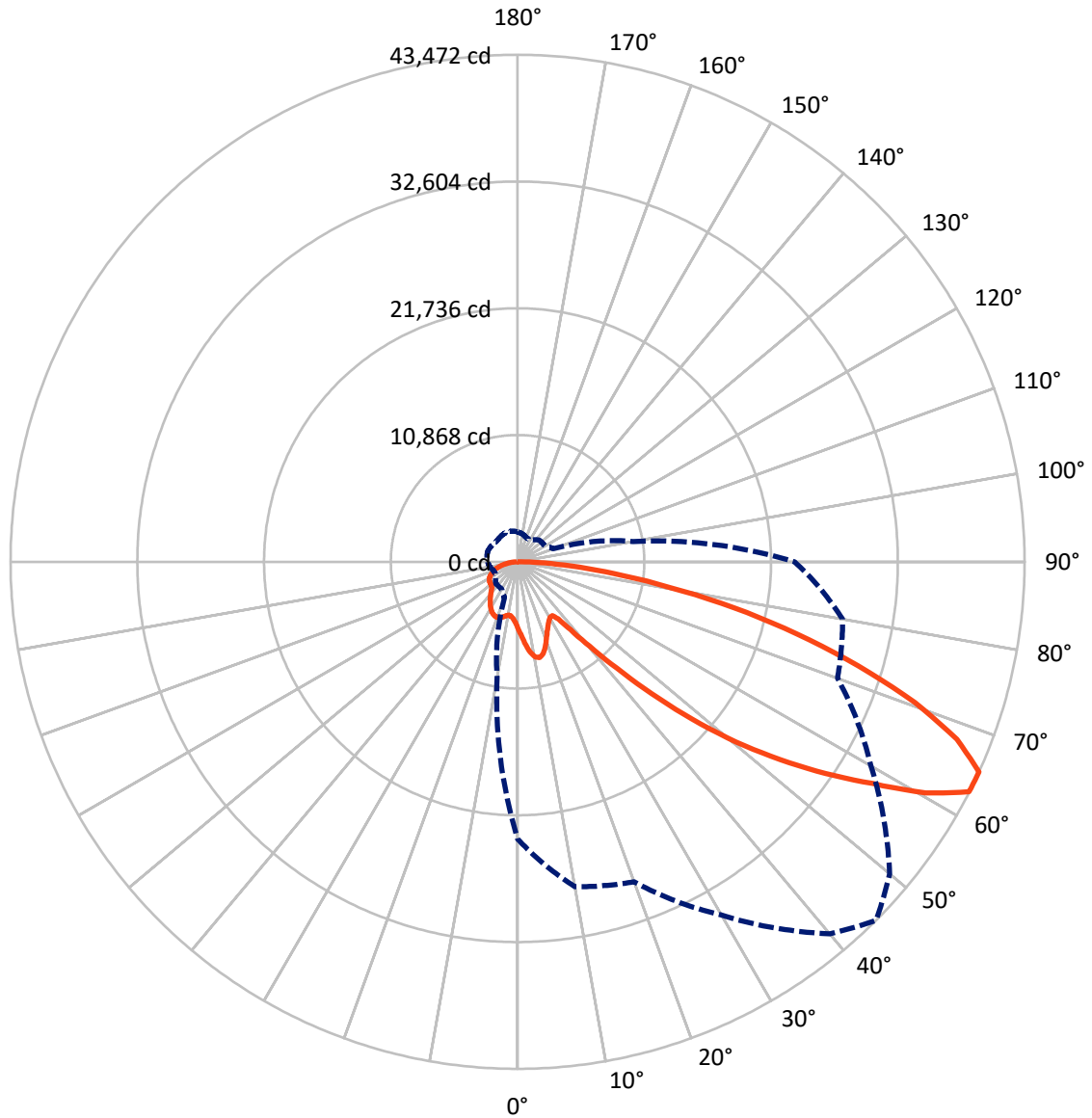
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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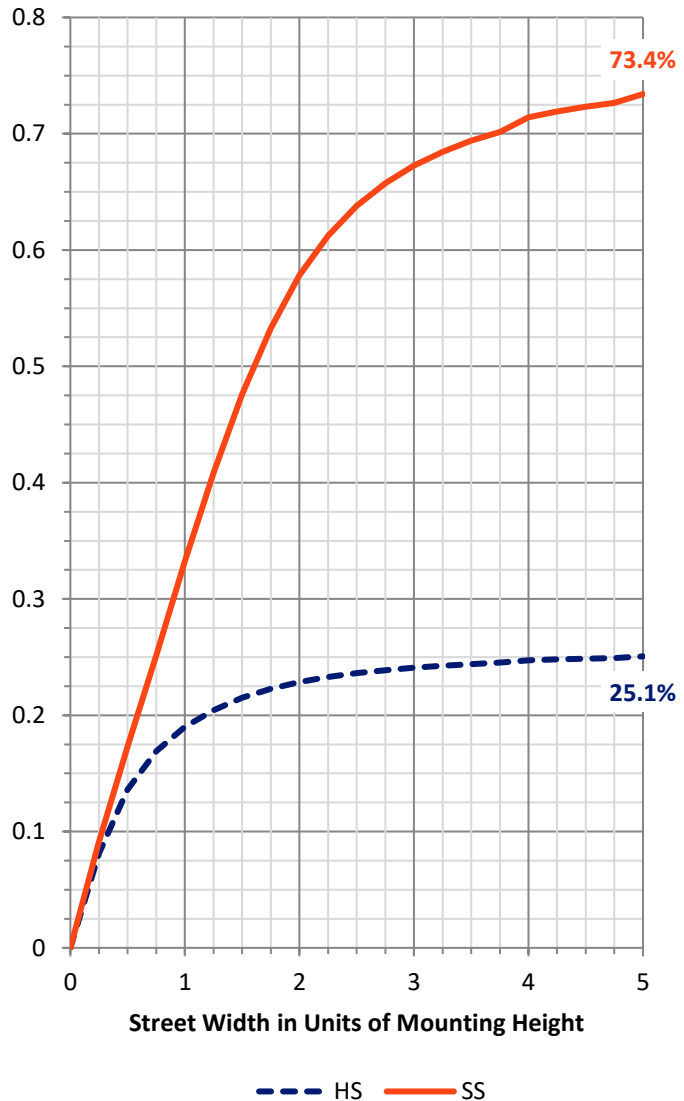
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10586.1	0.0	10586.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	31066.8	0.0	31066.8
	% Fixture	74.6	0.0	74.6
Total	Lumens	41652.9	0.0	41652.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.2	1.4
10°-20°	1783.6	4.3
20°-30°	2755.1	6.6
30°-40°	3491.4	8.4
40°-50°	5265.9	12.6
50°-60°	8507.8	20.4
60°-70°	10606.4	25.5
70°-80°	6955.1	16.7
80°-90°	1719.5	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°	41652.9	100.0
0°-180°	41652.9	100.0

Coefficient of Utilization

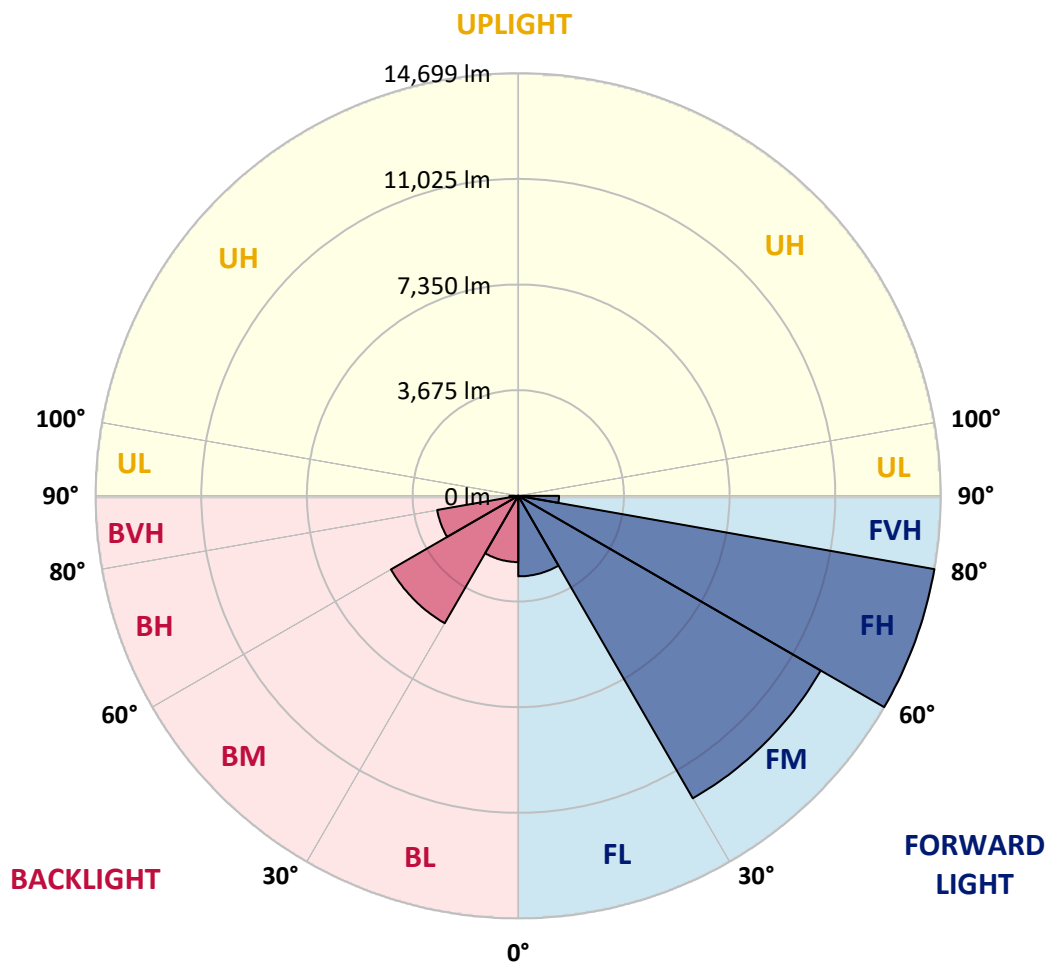


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2801.6	6.7			
FM (30°-60°)	12149.2	29.2			
FH (60°-80°)	14699.5	35.3			G5
FVH (80°-90°)	1416.5	3.4			G5
BL (0°-30°)	2305.2	5.5	B3/2500		
BM (30°-60°)	5115.8	12.3	B4/8500		
BH (60°-80°)	2862.0	6.9	B4/5000		G4/5000
BVH (80°-90°)	303.0	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°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
2.5°	6159.5	6182.8	6206.4	6239.5	6272.7	6292.5	6312.3	6322.2	6332.0	6327.6	6332.0
5°	6623.2	6704.8	6786.5	6867.4	6948.6	6992.6	7036.4	7063.1	7089.8	7110.1	7089.8
7.5°	7089.2	7221.9	7354.5	7473.9	7593.2	7665.1	7736.9	7775.9	7814.5	7833.2	7814.5
10°	7446.3	7603.2	7760.2	7900.2	8040.2	8125.1	8209.4	8247.3	8284.9	8299.1	8284.9
12.5°	7665.1	7835.2	8005.0	8131.6	8257.8	8319.3	8380.9	8401.5	8422.2	8424.4	8422.2
15°	7798.0	7944.9	8091.5	8170.8	8250.3	8252.6	8254.7	8232.8	8210.8	8184.8	8210.8
17.5°	7872.7	7971.8	8071.0	8072.5	8073.8	7984.9	7895.8	7814.3	7732.5	7675.0	7732.5
20°	7955.1	7989.7	8024.4	7920.0	7815.6	7619.1	7422.6	7279.6	7136.5	7048.5	7136.5
22.5°	8050.8	8005.5	7960.3	7744.0	7527.7	7238.7	6949.6	6770.7	6591.9	6494.7	6591.9
25°	8173.9	8031.0	7888.1	7559.8	7231.4	6880.4	6529.5	6341.3	6153.6	6061.7	6153.6
27.5°	8340.9	8085.5	7829.9	7395.0	6960.2	6571.2	6182.2	5997.1	5812.3	5725.4	5812.3
30°	8566.1	8185.2	7804.7	7269.2	6733.8	6328.6	5923.3	5751.6	5579.9	5499.0	5579.9
32.5°	8832.1	8310.6	7789.3	7183.5	6577.7	6196.8	5816.0	5681.3	5546.3	5488.1	5546.3
35°	9155.2	8516.9	7878.9	7247.7	6616.7	6352.0	6087.7	6056.2	6024.7	6019.9	6024.7
37.5°	9699.2	8948.4	8197.6	7623.9	7050.4	7033.1	7016.0	7159.7	7303.5	7378.3	7303.5
40°	10521.2	9704.7	8888.2	8461.6	8035.0	8336.0	8637.2	8986.6	9336.1	9510.2	9336.1
42.5°	11611.3	10801.1	9991.1	9745.3	9499.6	10156.3	10813.0	11448.6	12084.3	12457.5	12084.3
45°	12957.5	12229.8	11501.8	11393.5	11284.9	12337.1	13389.4	14433.8	15478.4	16112.6	15478.4
47.5°	14641.1	13933.1	13225.0	13203.0	13181.0	14698.9	16216.3	17745.3	19274.2	20172.0	19274.2
50°	16847.7	15973.2	15098.9	15102.7	15106.3	17062.5	19018.6	21036.9	23055.1	24275.4	23055.1
52.5°	19380.8	18321.9	17263.2	17156.1	17048.8	19385.4	21721.9	24219.1	26716.1	28178.8	26716.1
55°	22077.6	21031.4	19985.1	19567.8	19150.5	21750.9	24351.2	27328.2	30305.3	32044.9	30305.3
57.5°	24530.4	23960.7	23390.8	22553.6	21716.7	24342.4	26968.3	30340.2	33711.9	35869.2	33711.9
60°	26012.9	26897.6	27782.7	26743.2	25703.6	28188.5	30673.4	34283.6	37893.8	40225.3	37893.8
62.5°	25260.1	27678.0	30095.8	29978.7	29861.3	32137.6	34414.2	37848.9	41283.6	43438.6	41283.6
65°	23753.5	26022.7	28292.0	28741.0	29189.8	32082.7	34975.8	38306.4	41636.8	43471.6	41636.8
67.5°	21734.7	23893.0	26051.3	26261.8	26472.2	29486.4	32500.3	35845.2	39190.2	40627.5	39190.2
70°	19309.4	21656.9	24004.7	24098.7	24193.0	26888.4	29583.7	32462.3	35340.6	36139.4	35340.6
72.5°	16419.2	19113.1	21807.2	21874.9	21942.4	24051.2	26160.0	28315.9	30471.6	30552.5	30471.6
75°	12763.0	15551.2	18339.4	18589.8	18840.1	20480.8	22121.6	23639.2	25156.8	24750.2	25156.8
77.5°	9118.9	11721.7	14324.6	14682.8	15041.1	16288.4	17535.7	18611.9	19688.5	18989.6	19688.5
80°	5968.3	8158.1	10347.6	10792.8	11238.1	12180.2	13121.7	13687.0	14252.0	13127.9	14252.0
82.5°	3469.3	4966.3	6463.4	6960.9	7458.4	8106.8	8755.2	8991.0	9226.6	8343.1	9226.6
85°	1526.4	2320.9	3115.5	3538.6	3961.6	4494.4	5026.9	5160.8	5294.6	4587.0	5294.6
87.5°	472.5	739.5	1006.7	1242.7	1478.8	1745.1	2011.5	2022.9	2034.1	1707.8	2034.1
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°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
2.5°	6322.2	6312.3	6292.5	6272.7	6239.5	6206.4	6182.8	6159.5	6112.3	6065.0	6014.7
5°	7063.1	7036.4	6992.6	6948.6	6867.4	6786.5	6704.8	6623.2	6518.9	6414.4	6310.3
7.5°	7775.9	7736.9	7665.1	7593.2	7473.9	7354.5	7221.9	7089.2	6916.9	6744.8	6585.7
10°	8247.3	8209.4	8125.1	8040.2	7900.2	7760.2	7603.2	7446.3	7228.6	7010.8	6800.5
12.5°	8401.5	8380.9	8319.3	8257.8	8131.6	8005.0	7835.2	7665.1	7425.7	7186.6	6948.4
15°	8232.8	8254.7	8252.6	8250.3	8170.8	8091.5	7944.9	7798.0	7548.6	7299.1	7040.6
17.5°	7814.3	7895.8	7984.9	8073.8	8072.5	8071.0	7971.8	7872.7	7619.7	7366.8	7084.8
20°	7279.6	7422.6	7619.1	7815.6	7920.0	8024.4	7989.7	7955.1	7692.3	7429.2	7119.3
22.5°	6770.7	6949.6	7238.7	7527.7	7744.0	7960.3	8005.5	8050.8	7782.2	7513.4	7165.9
25°	6341.3	6529.5	6880.4	7231.4	7559.8	7888.1	8031.0	8173.9	7910.5	7647.4	7250.3
27.5°	5997.1	6182.2	6571.2	6960.2	7395.0	7829.9	8085.5	8340.9	8089.9	7838.7	7382.2
30°	5751.6	5923.3	6328.6	6733.8	7269.2	7804.7	8185.2	8566.1	8323.5	8081.1	7552.9
32.5°	5681.3	5816.0	6196.8	6577.7	7183.5	7789.3	8310.6	8832.1	8591.9	8351.9	7731.2
35°	6056.2	6087.7	6352.0	6616.7	7247.7	7878.9	8516.9	9155.2	8925.3	8695.2	7934.3
37.5°	7159.7	7016.0	7033.1	7050.4	7623.9	8197.6	8948.4	9699.2	9406.0	9112.8	8161.8
40°	8986.6	8637.2	8336.0	8035.0	8461.6	8888.2	9704.7	10521.2	10093.9	9666.7	8450.6
42.5°	11448.6	10813.0	10156.3	9499.6	9745.3	9991.1	10801.1	11611.3	10994.6	10377.9	8828.4
45°	14433.8	13389.4	12337.1	11284.9	11393.5	11501.8	12229.8	12957.5	12125.6	11293.8	9325.6
47.5°	17745.3	16216.3	14698.9	13181.0	13203.0	13225.0	13933.1	14641.1	13470.2	12299.3	9855.3
50°	21036.9	19018.6	17062.5	15106.3	15102.7	15098.9	15973.2	16847.7	15082.7	13317.3	10346.7
52.5°	24219.1	21721.9	19385.4	17048.8	17156.1	17263.2	18321.9	19380.8	16776.3	14171.9	10665.8
55°	27328.2	24351.2	21750.9	19150.5	19567.8	19985.1	21031.4	22077.6	18277.9	14478.4	10595.4
57.5°	30340.2	26968.3	24342.4	21716.7	22553.6	23390.8	23960.7	24530.4	19342.1	14153.8	10100.6
60°	34283.6	30673.4	28188.5	25703.6	26743.2	27782.7	26897.6	26012.9	19608.0	13203.0	9179.4
62.5°	37848.9	34414.2	32137.6	29861.3	29978.7	30095.8	27678.0	25260.1	18488.2	11716.4	7933.8
65°	38306.4	34975.8	32082.7	29189.8	28741.0	28292.0	26022.7	23753.5	16903.8	10054.1	6663.0
67.5°	35845.2	32500.3	29486.4	26472.2	26261.8	26051.3	23893.0	21734.7	15018.2	8301.8	5418.2
70°	32462.3	29583.7	26888.4	24193.0	24098.7	24004.7	21656.9	19309.4	12960.8	6612.3	4266.0
72.5°	28315.9	26160.0	24051.2	21942.4	21874.9	21807.2	19113.1	16419.2	10730.4	5041.9	3261.4
75°	23639.2	22121.6	20480.8	18840.1	18589.8	18339.4	15551.2	12763.0	8173.7	3584.3	2367.1
77.5°	18611.9	17535.7	16288.4	15041.1	14682.8	14324.6	11721.7	9118.9	5720.8	2322.8	1604.0
80°	13687.0	13121.7	12180.2	11238.1	10792.8	10347.6	8158.1	5968.3	3685.8	1403.3	1033.4
82.5°	8991.0	8755.2	8106.8	7458.4	6960.9	6463.4	4966.3	3469.3	2133.2	797.3	635.6
85°	5160.8	5026.9	4494.4	3961.6	3538.6	3115.5	2320.9	1526.4	959.6	393.0	339.8
87.5°	2022.9	2011.5	1745.1	1478.8	1242.7	1006.7	739.5	472.5	314.3	156.0	140.8
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°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
2.5°	5964.6	5914.0	5863.5	5815.1	5766.8	5719.9	5667.8	5625.6	5583.7	5545.7	5507.8
5°	6206.4	6101.5	5996.9	5899.1	5801.3	5708.9	5617.7	5538.2	5458.4	5391.6	5325.0
7.5°	6426.5	6271.6	6116.7	5980.2	5843.7	5717.8	5599.7	5493.8	5388.0	5300.2	5212.2
10°	6590.3	6402.2	6213.8	6052.5	5890.7	5735.3	5608.5	5496.9	5385.2	5297.3	5209.4
12.5°	6710.1	6488.1	6266.1	6083.5	5900.8	5737.5	5619.5	5528.0	5437.1	5378.6	5320.6
15°	6782.2	6526.6	6271.0	6059.5	5848.0	5667.2	5572.7	5529.0	5485.4	5493.4	5501.3
17.5°	6802.8	6506.1	6209.4	5955.1	5700.8	5488.1	5429.8	5445.8	5461.7	5557.5	5653.4
20°	6809.4	6449.8	6090.2	5775.2	5460.0	5212.2	5196.9	5271.6	5346.3	5512.7	5679.3
22.5°	6818.2	6380.8	5943.5	5563.9	5184.3	4902.4	4932.4	5043.0	5153.6	5343.4	5533.8
25°	6852.9	6312.7	5772.7	5328.1	4883.6	4594.7	4675.9	4803.5	4930.9	5101.7	5272.7
27.5°	6925.5	6267.3	5608.9	5112.5	4616.0	4352.9	4451.8	4574.9	4698.0	4838.4	4978.6
30°	7024.8	6245.9	5466.5	4932.2	4398.0	4177.1	4254.7	4352.3	4450.2	4566.7	4683.2
32.5°	7110.5	6219.5	5328.1	4776.8	4225.4	4047.4	4081.9	4139.7	4197.5	4290.4	4383.6
35°	7173.4	6169.9	5166.7	4624.1	4081.4	3933.1	3918.8	3934.7	3950.7	4021.7	4092.4
37.5°	7210.8	6084.8	4958.8	4444.3	3929.7	3800.1	3747.8	3730.2	3712.7	3763.6	3814.4
40°	7234.2	5967.7	4701.3	4229.8	3758.4	3640.8	3560.5	3520.8	3481.0	3517.7	3554.4
42.5°	7278.9	5846.8	4415.1	3993.1	3571.1	3462.8	3361.6	3308.9	3256.1	3286.0	3316.2
45°	7357.3	5734.5	4111.8	3741.7	3371.5	3261.7	3163.9	3112.4	3061.2	3086.3	3111.7
47.5°	7411.2	5641.7	3872.2	3542.7	3213.3	3071.5	2987.4	2944.2	2901.2	2924.9	2948.4
50°	7376.0	5540.6	3705.2	3410.7	3116.1	2929.8	2832.0	2793.7	2755.7	2792.6	2829.7
52.5°	7159.5	5369.9	3580.3	3323.6	3067.1	2852.8	2716.1	2678.3	2640.7	2696.4	2751.7
55°	6712.3	5086.8	3461.2	3260.5	3059.8	2860.6	2654.5	2594.8	2535.2	2614.2	2692.8
57.5°	6047.4	4687.6	3327.6	3185.8	3044.0	2868.3	2617.6	2530.6	2443.6	2528.5	2613.2
60°	5155.8	4169.4	3182.9	3071.5	2960.1	2844.1	2582.9	2470.1	2357.2	2431.7	2506.0
62.5°	4151.4	3549.1	2946.9	2872.9	2799.0	2784.7	2542.5	2401.4	2260.5	2307.8	2355.0
65°	3272.2	2991.1	2710.0	2675.0	2640.1	2641.8	2457.2	2307.3	2157.2	2175.5	2193.5
67.5°	2534.6	2454.8	2374.8	2394.4	2413.7	2408.9	2305.1	2180.3	2055.4	2049.7	2044.1
70°	1919.8	1942.7	1965.3	2055.8	2146.2	2146.2	2112.1	2023.4	1934.6	1914.8	1895.0
72.5°	1480.9	1549.7	1618.7	1747.1	1875.2	1896.8	1897.2	1836.3	1775.4	1746.4	1717.6
75°	1149.9	1212.4	1274.8	1418.5	1562.2	1661.6	1653.2	1606.4	1559.4	1531.7	1503.8
77.5°	885.3	927.7	970.4	1110.0	1249.5	1413.3	1408.9	1371.2	1333.6	1305.5	1277.4
80°	663.8	681.3	698.9	817.1	935.2	1130.8	1130.2	1098.7	1067.0	1043.6	1019.8
82.5°	474.3	477.3	480.9	568.0	655.0	822.0	831.3	815.8	800.4	783.7	767.0
85°	286.8	285.3	283.5	347.3	411.0	535.2	547.2	530.7	514.3	495.6	476.9
87.5°	125.8	124.2	122.6	148.6	174.8	226.4	241.8	235.1	228.6	225.1	221.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P967167
 CATALOG NUMBER: NAV-SB4D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
2.5°	5474.6	5441.5	5408.1	5374.9	5349.2	5323.2	5302.3	5281.5	5265.2	5248.9	5234.0
5°	5266.0	5207.2	5153.8	5100.2	5059.1	5017.7	4989.0	4960.2	4939.7	4919.3	4903.7
7.5°	5138.1	5063.9	4998.4	4933.1	4884.1	4835.3	4801.0	4766.8	4743.2	4719.9	4705.9
10°	5129.6	5049.6	4976.0	4902.4	4843.8	4785.2	4747.0	4708.2	4686.1	4663.9	4652.0
12.5°	5257.7	5195.3	5119.1	5043.0	4968.3	4893.6	4844.0	4794.6	4769.8	4745.2	4735.1
15°	5485.0	5468.7	5402.6	5336.5	5230.1	5123.7	5048.5	4973.3	4938.9	4904.5	4891.3
17.5°	5704.3	5755.1	5701.7	5648.5	5507.6	5366.8	5256.0	5145.2	5094.2	5043.0	5026.3
20°	5785.9	5892.5	5867.8	5843.0	5681.9	5521.1	5385.2	5249.6	5184.3	5118.8	5097.9
22.5°	5672.5	5811.1	5826.1	5840.9	5687.0	5533.2	5393.3	5253.3	5184.6	5115.6	5092.4
25°	5409.1	5545.7	5596.6	5647.4	5521.3	5395.3	5271.0	5146.9	5087.2	5027.6	5005.9
27.5°	5088.1	5197.5	5254.3	5311.1	5221.2	5131.6	5035.1	4938.6	4898.6	4858.4	4848.5
30°	4773.9	4865.0	4911.1	4957.3	4888.9	4820.4	4751.4	4681.9	4661.5	4640.8	4640.8
32.5°	4470.6	4558.0	4609.1	4660.6	4597.7	4534.6	4479.5	4424.3	4410.9	4397.5	4399.2
35°	4178.6	4264.9	4326.5	4388.0	4343.2	4298.5	4247.6	4196.9	4176.4	4156.2	4151.8
37.5°	3900.3	3986.5	4062.5	4138.5	4117.9	4097.2	4050.5	4003.4	3966.2	3929.3	3909.8
40°	3637.4	3720.5	3808.0	3895.7	3900.7	3905.6	3865.8	3826.0	3772.0	3718.4	3681.9
42.5°	3394.8	3473.7	3568.2	3662.7	3688.1	3713.3	3679.6	3646.2	3579.2	3512.2	3459.2
45°	3186.4	3261.2	3359.2	3457.2	3493.5	3529.8	3499.5	3469.3	3392.6	3316.2	3254.0
47.5°	3021.6	3094.6	3191.3	3288.0	3329.8	3371.5	3350.4	3329.3	3261.2	3193.1	3135.5
50°	2898.8	2967.6	3054.2	3140.7	3194.4	3248.0	3246.7	3245.8	3191.3	3136.8	3083.6
52.5°	2815.1	2878.1	2958.8	3039.6	3103.2	3166.6	3178.1	3189.5	3145.1	3100.7	3053.1
55°	2760.9	2829.1	2899.8	2970.4	3037.7	3105.1	3120.9	3136.8	3098.1	3059.4	3017.7
57.5°	2693.3	2773.2	2843.1	2913.3	2981.2	3048.9	3065.0	3080.9	3041.9	3002.7	2961.4
60°	2597.9	2689.7	2760.7	2832.0	2900.0	2968.2	2985.8	3003.4	2965.1	2927.1	2884.5
62.5°	2462.0	2569.3	2645.1	2721.0	2783.4	2845.8	2862.7	2879.6	2845.1	2810.7	2765.8
65°	2308.2	2423.1	2495.7	2568.2	2623.2	2678.1	2695.4	2712.6	2679.5	2646.2	2602.7
67.5°	2149.9	2256.1	2324.9	2393.5	2440.9	2488.4	2505.3	2522.0	2491.5	2461.1	2420.7
70°	1988.2	2081.4	2140.7	2200.1	2242.9	2285.8	2302.0	2318.3	2293.4	2268.6	2230.0
72.5°	1791.1	1864.3	1917.9	1971.5	2013.5	2055.4	2074.8	2094.1	2073.5	2052.8	2015.9
75°	1558.3	1612.8	1661.3	1709.9	1748.1	1786.5	1806.7	1826.9	1816.7	1806.7	1775.6
77.5°	1321.8	1366.0	1407.7	1449.5	1489.7	1529.7	1548.6	1567.5	1553.5	1538.9	1507.8
80°	1056.8	1093.5	1128.6	1163.8	1194.3	1224.7	1249.7	1274.8	1268.6	1262.7	1220.7
82.5°	763.9	760.9	748.6	736.3	801.3	866.4	909.1	951.7	949.0	946.2	910.8
85°	461.1	445.1	411.0	376.9	437.8	498.9	551.7	604.4	600.0	595.6	568.0
87.5°	220.9	220.3	194.3	168.1	193.6	219.4	240.7	262.0	256.7	251.0	237.0
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: P967167
 CATALOG NUMBER: NAV-SB4D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
2.5°	5218.8	5200.1	5218.8	5234.0	5248.9	5265.2	5281.5	5302.3	5323.2	5349.2	5374.9
5°	4888.0	4872.6	4888.0	4903.7	4919.3	4939.7	4960.2	4989.0	5017.7	5059.1	5100.2
7.5°	4692.0	4681.5	4692.0	4705.9	4719.9	4743.2	4766.8	4801.0	4835.3	4884.1	4933.1
10°	4640.2	4635.3	4640.2	4652.0	4663.9	4686.1	4708.2	4747.0	4785.2	4843.8	4902.4
12.5°	4724.9	4723.2	4724.9	4735.1	4745.2	4769.8	4794.6	4844.0	4893.6	4968.3	5043.0
15°	4878.2	4877.1	4878.2	4891.3	4904.5	4938.9	4973.3	5048.5	5123.7	5230.1	5336.5
17.5°	5009.4	5006.7	5009.4	5026.3	5043.0	5094.2	5145.2	5256.0	5366.8	5507.6	5648.5
20°	5077.0	5070.5	5077.0	5097.9	5118.8	5184.3	5249.6	5385.2	5521.1	5681.9	5843.0
22.5°	5069.3	5059.5	5069.3	5092.4	5115.6	5184.6	5253.3	5393.3	5533.2	5687.0	5840.9
25°	4984.3	4971.6	4984.3	5005.9	5027.6	5087.2	5146.9	5271.0	5395.3	5521.3	5647.4
27.5°	4838.6	4835.3	4838.6	4848.5	4858.4	4898.6	4938.6	5035.1	5131.6	5221.2	5311.1
30°	4640.8	4644.1	4640.8	4640.8	4640.8	4661.5	4681.9	4751.4	4820.4	4888.9	4957.3
32.5°	4401.2	4404.5	4401.2	4399.2	4397.5	4410.9	4424.3	4479.5	4534.6	4597.7	4660.6
35°	4147.4	4145.2	4147.4	4151.8	4156.2	4176.4	4196.9	4247.6	4298.5	4343.2	4388.0
37.5°	3890.2	3879.2	3890.2	3909.8	3929.3	3966.2	4003.4	4050.5	4097.2	4117.9	4138.5
40°	3645.8	3624.3	3645.8	3681.9	3718.4	3772.0	3826.0	3865.8	3905.6	3900.7	3895.7
42.5°	3406.3	3371.5	3406.3	3459.2	3512.2	3579.2	3646.2	3679.6	3713.3	3688.1	3662.7
45°	3191.7	3151.8	3191.7	3254.0	3316.2	3392.6	3469.3	3499.5	3529.8	3493.5	3457.2
47.5°	3078.1	3039.6	3078.1	3135.5	3193.1	3261.2	3329.3	3350.4	3371.5	3329.8	3288.0
50°	3030.4	2993.5	3030.4	3083.6	3136.8	3191.3	3245.8	3246.7	3248.0	3194.4	3140.7
52.5°	3005.6	2971.5	3005.6	3053.1	3100.7	3145.1	3189.5	3178.1	3166.6	3103.2	3039.6
55°	2975.9	2945.1	2975.9	3017.7	3059.4	3098.1	3136.8	3120.9	3105.1	3037.7	2970.4
57.5°	2919.8	2888.0	2919.8	2961.4	3002.7	3041.9	3080.9	3065.0	3048.9	2981.2	2913.3
60°	2841.8	2808.9	2841.8	2884.5	2927.1	2965.1	3003.4	2985.8	2968.2	2900.0	2832.0
62.5°	2721.0	2681.4	2721.0	2765.8	2810.7	2845.1	2879.6	2862.7	2845.8	2783.4	2721.0
65°	2559.4	2525.4	2559.4	2602.7	2646.2	2679.5	2712.6	2695.4	2678.1	2623.2	2568.2
67.5°	2380.3	2349.5	2380.3	2420.7	2461.1	2491.5	2522.0	2505.3	2488.4	2440.9	2393.5
70°	2191.2	2156.1	2191.2	2230.0	2268.6	2293.4	2318.3	2302.0	2285.8	2242.9	2200.1
72.5°	1979.2	1945.1	1979.2	2015.9	2052.8	2073.5	2094.1	2074.8	2055.4	2013.5	1971.5
75°	1744.7	1712.2	1744.7	1775.6	1806.7	1816.7	1826.9	1806.7	1786.5	1748.1	1709.9
77.5°	1476.5	1450.6	1476.5	1507.8	1538.9	1553.5	1567.5	1548.6	1529.7	1489.7	1449.5
80°	1178.5	1129.7	1178.5	1220.7	1262.7	1268.6	1274.8	1249.7	1224.7	1194.3	1163.8
82.5°	875.1	844.0	875.1	910.8	946.2	949.0	951.7	909.1	866.4	801.3	736.3
85°	540.3	512.1	540.3	568.0	595.6	600.0	604.4	551.7	498.9	437.8	376.9
87.5°	222.4	208.8	222.4	237.0	251.0	256.7	262.0	240.7	219.4	193.6	168.1
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: P967167
 CATALOG NUMBER: NAV-SB4D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
2.5°	5408.1	5441.5	5474.6	5507.8	5545.7	5583.7	5625.6	5667.8	5719.9	5766.8	5815.1
5°	5153.8	5207.2	5266.0	5325.0	5391.6	5458.4	5538.2	5617.7	5708.9	5801.3	5899.1
7.5°	4998.4	5063.9	5138.1	5212.2	5300.2	5388.0	5493.8	5599.7	5717.8	5843.7	5980.2
10°	4976.0	5049.6	5129.6	5209.4	5297.3	5385.2	5496.9	5608.5	5735.3	5890.7	6052.5
12.5°	5119.1	5195.3	5257.7	5320.6	5378.6	5437.1	5528.0	5619.5	5737.5	5900.8	6083.5
15°	5402.6	5468.7	5485.0	5501.3	5493.4	5485.4	5529.0	5572.7	5667.2	5848.0	6059.5
17.5°	5701.7	5755.1	5704.3	5653.4	5557.5	5461.7	5445.8	5429.8	5488.1	5700.8	5955.1
20°	5867.8	5892.5	5785.9	5679.3	5512.7	5346.3	5271.6	5196.9	5212.2	5460.0	5775.2
22.5°	5826.1	5811.1	5672.5	5533.8	5343.4	5153.6	5043.0	4932.4	4902.4	5184.3	5563.9
25°	5596.6	5545.7	5409.1	5272.7	5101.7	4930.9	4803.5	4675.9	4594.7	4883.6	5328.1
27.5°	5254.3	5197.5	5088.1	4978.6	4838.4	4698.0	4574.9	4451.8	4352.9	4616.0	5112.5
30°	4911.1	4865.0	4773.9	4683.2	4566.7	4450.2	4352.3	4254.7	4177.1	4398.0	4932.2
32.5°	4609.1	4558.0	4470.6	4383.6	4290.4	4197.5	4139.7	4081.9	4047.4	4225.4	4776.8
35°	4326.5	4264.9	4178.6	4092.4	4021.7	3950.7	3934.7	3918.8	3933.1	4081.4	4624.1
37.5°	4062.5	3986.5	3900.3	3814.4	3763.6	3712.7	3730.2	3747.8	3800.1	3929.7	4444.3
40°	3808.0	3720.5	3637.4	3554.4	3517.7	3481.0	3520.8	3560.5	3640.8	3758.4	4229.8
42.5°	3568.2	3473.7	3394.8	3316.2	3286.0	3256.1	3308.9	3361.6	3462.8	3571.1	3993.1
45°	3359.2	3261.2	3186.4	3111.7	3086.3	3061.2	3112.4	3163.9	3261.7	3371.5	3741.7
47.5°	3191.3	3094.6	3021.6	2948.4	2924.9	2901.2	2944.2	2987.4	3071.5	3213.3	3542.7
50°	3054.2	2967.6	2898.8	2829.7	2792.6	2755.7	2793.7	2832.0	2929.8	3116.1	3410.7
52.5°	2958.8	2878.1	2815.1	2751.7	2696.4	2640.7	2678.3	2716.1	2852.8	3067.1	3323.6
55°	2899.8	2829.1	2760.9	2692.8	2614.2	2535.2	2594.8	2654.5	2860.6	3059.8	3260.5
57.5°	2843.1	2773.2	2693.3	2613.2	2528.5	2443.6	2530.6	2617.6	2868.3	3044.0	3185.8
60°	2760.7	2689.7	2597.9	2506.0	2431.7	2357.2	2470.1	2582.9	2844.1	2960.1	3071.5
62.5°	2645.1	2569.3	2462.0	2355.0	2307.8	2260.5	2401.4	2542.5	2784.7	2799.0	2872.9
65°	2495.7	2423.1	2308.2	2193.5	2175.5	2157.2	2307.3	2457.2	2641.8	2640.1	2675.0
67.5°	2324.9	2256.1	2149.9	2044.1	2049.7	2055.4	2180.3	2305.1	2408.9	2413.7	2394.4
70°	2140.7	2081.4	1988.2	1895.0	1914.8	1934.6	2023.4	2112.1	2146.2	2146.2	2055.8
72.5°	1917.9	1864.3	1791.1	1717.6	1746.4	1775.4	1836.3	1897.2	1896.8	1875.2	1747.1
75°	1661.3	1612.8	1558.3	1503.8	1531.7	1559.4	1606.4	1653.2	1661.6	1562.2	1418.5
77.5°	1407.7	1366.0	1321.8	1277.4	1305.5	1333.6	1371.2	1408.9	1413.3	1249.5	1110.0
80°	1128.6	1093.5	1056.8	1019.8	1043.6	1067.0	1098.7	1130.2	1130.8	935.2	817.1
82.5°	748.6	760.9	763.9	767.0	783.7	800.4	815.8	831.3	822.0	655.0	568.0
85°	411.0	445.1	461.1	476.9	495.6	514.3	530.7	547.2	535.2	411.0	347.3
87.5°	194.3	220.3	220.9	221.5	225.1	228.6	235.1	241.8	226.4	174.8	148.6
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: P967167
 CATALOG NUMBER: NAV-SB4D-730-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6	5727.6
2.5°	5863.5	5914.0	5964.6	6014.7	6065.0	6112.3	6159.5
5°	5996.9	6101.5	6206.4	6310.3	6414.4	6518.9	6623.2
7.5°	6116.7	6271.6	6426.5	6585.7	6744.8	6916.9	7089.2
10°	6213.8	6402.2	6590.3	6800.5	7010.8	7228.6	7446.3
12.5°	6266.1	6488.1	6710.1	6948.4	7186.6	7425.7	7665.1
15°	6271.0	6526.6	6782.2	7040.6	7299.1	7548.6	7798.0
17.5°	6209.4	6506.1	6802.8	7084.8	7366.8	7619.7	7872.7
20°	6090.2	6449.8	6809.4	7119.3	7429.2	7692.3	7955.1
22.5°	5943.5	6380.8	6818.2	7165.9	7513.4	7782.2	8050.8
25°	5772.7	6312.7	6852.9	7250.3	7647.4	7910.5	8173.9
27.5°	5608.9	6267.3	6925.5	7382.2	7838.7	8089.9	8340.9
30°	5466.5	6245.9	7024.8	7552.9	8081.1	8323.5	8566.1
32.5°	5328.1	6219.5	7110.5	7731.2	8351.9	8591.9	8832.1
35°	5166.7	6169.9	7173.4	7934.3	8695.2	8925.3	9155.2
37.5°	4958.8	6084.8	7210.8	8161.8	9112.8	9406.0	9699.2
40°	4701.3	5967.7	7234.2	8450.6	9666.7	10093.9	10521.2
42.5°	4415.1	5846.8	7278.9	8828.4	10377.9	10994.6	11611.3
45°	4111.8	5734.5	7357.3	9325.6	11293.8	12125.6	12957.5
47.5°	3872.2	5641.7	7411.2	9855.3	12299.3	13470.2	14641.1
50°	3705.2	5540.6	7376.0	10346.7	13317.3	15082.7	16847.7
52.5°	3580.3	5369.9	7159.5	10665.8	14171.9	16776.3	19380.8
55°	3461.2	5086.8	6712.3	10595.4	14478.4	18277.9	22077.6
57.5°	3327.6	4687.6	6047.4	10100.6	14153.8	19342.1	24530.4
60°	3182.9	4169.4	5155.8	9179.4	13203.0	19608.0	26012.9
62.5°	2946.9	3549.1	4151.4	7933.8	11716.4	18488.2	25260.1
65°	2710.0	2991.1	3272.2	6663.0	10054.1	16903.8	23753.5
67.5°	2374.8	2454.8	2534.6	5418.2	8301.8	15018.2	21734.7
70°	1965.3	1942.7	1919.8	4266.0	6612.3	12960.8	19309.4
72.5°	1618.7	1549.7	1480.9	3261.4	5041.9	10730.4	16419.2
75°	1274.8	1212.4	1149.9	2367.1	3584.3	8173.7	12763.0
77.5°	970.4	927.7	885.3	1604.0	2322.8	5720.8	9118.9
80°	698.9	681.3	663.8	1033.4	1403.3	3685.8	5968.3
82.5°	480.9	477.3	474.3	635.6	797.3	2133.2	3469.3
85°	283.5	285.3	286.8	339.8	393.0	959.6	1526.4
87.5°	122.6	124.2	125.8	140.8	156.0	314.3	472.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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