

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: P967291

Luminaire Tested: **NAV-SB4D-760-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967291
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-760-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44067.8 lumens
Efficiency: N/A
Efficacy: 150.1 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



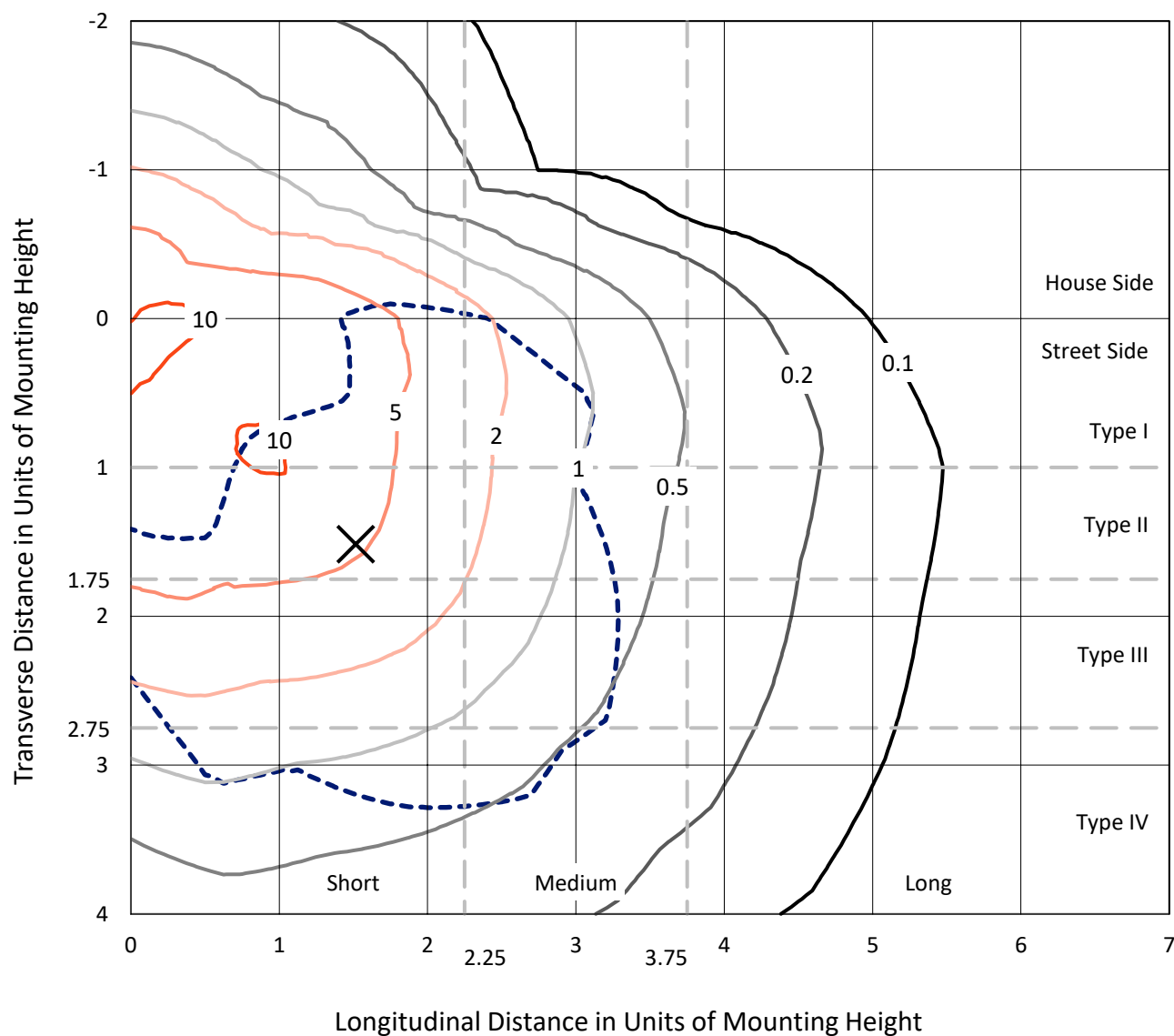
REPORT NUMBER: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

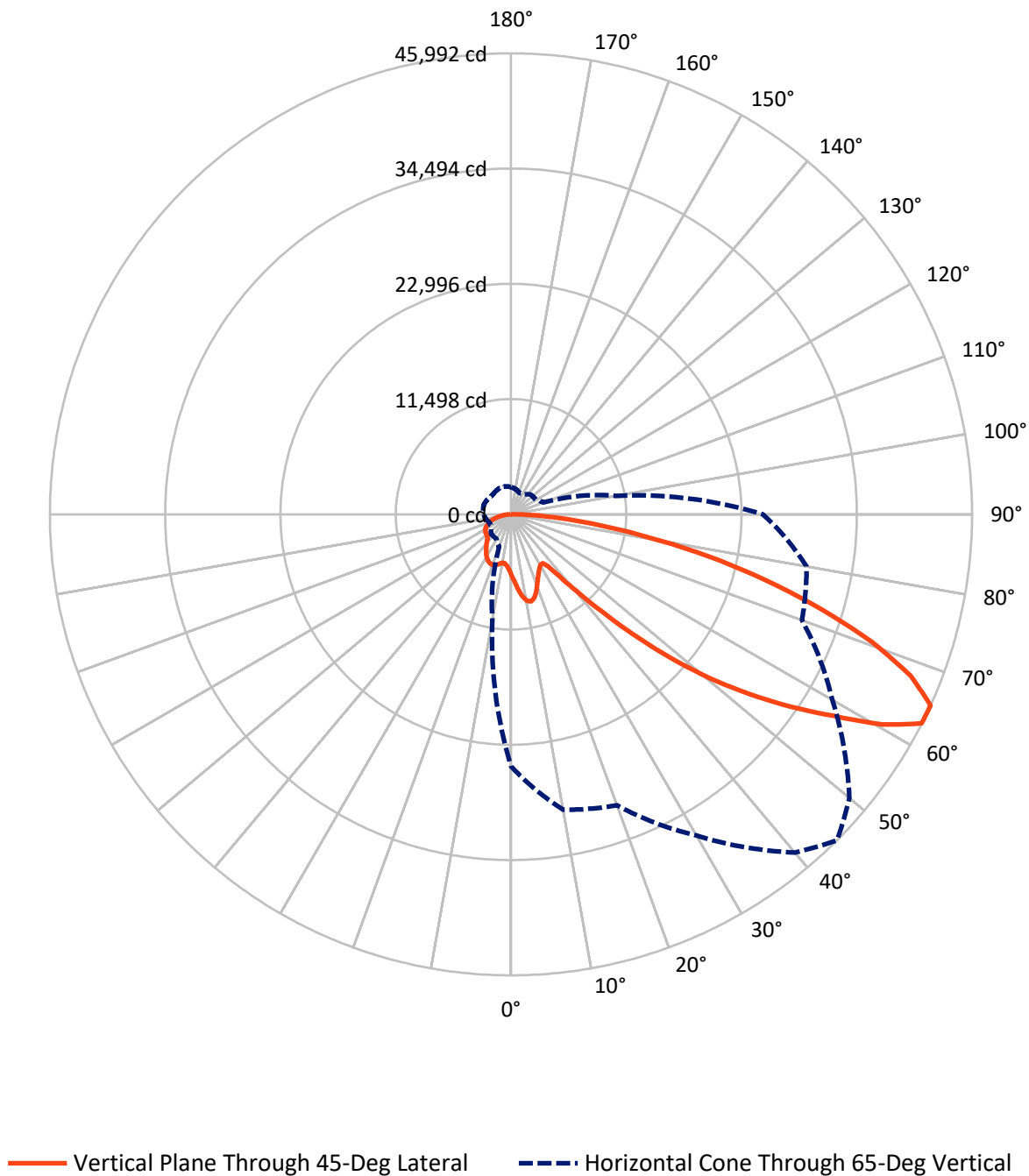


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc

Type IV - Short - N/A

REPORT NUMBER: P967291
CATALOG NUMBER: NAV-SB4D-760-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

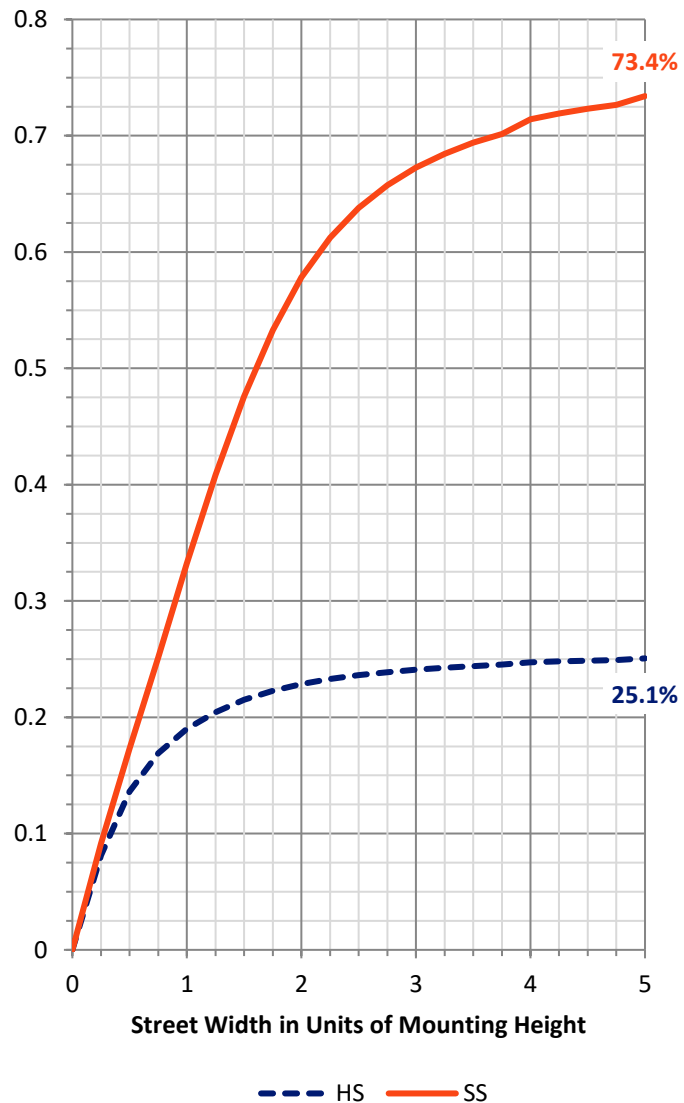
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11199.8	0.0	11199.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	32868.0	0.0	32868.0
	% Fixture	74.6	0.0	74.6
Total	Lumens	44067.8	0.0	44067.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.1	1.4
10°-20°	1887.0	4.3
20°-30°	2914.8	6.6
30°-40°	3693.8	8.4
40°-50°	5571.2	12.6
50°-60°	9001.1	20.4
60°-70°	11221.3	25.5
70°-80°	7358.4	16.7
80°-90°	1819.2	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°	44067.8	100.0
0°-180°	44067.8	100.0

Coefficient of Utilization



REPORT NUMBER: P967291

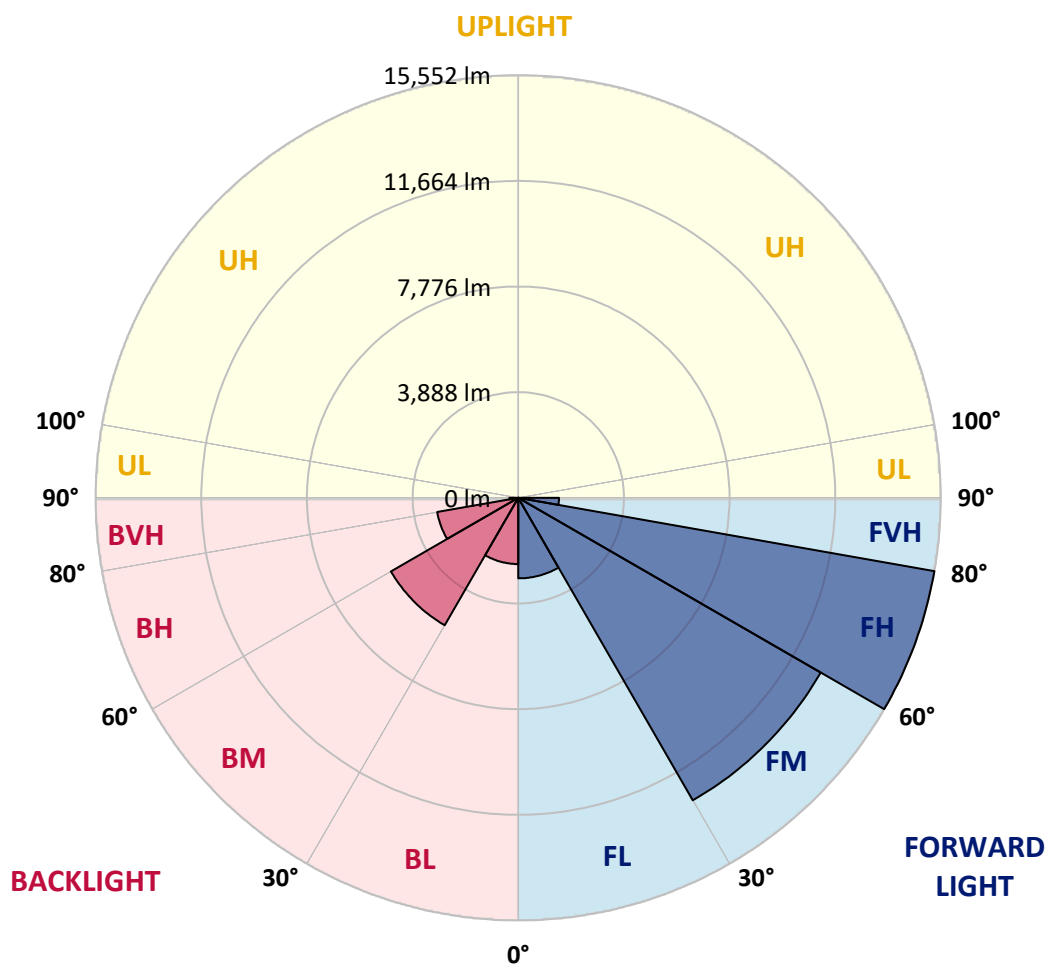
CATALOG NUMBER: NAV-SB4D-760-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2964.1	6.7			
FM	(30°-60°)	12853.6	29.2			
FH	(60°-80°)	15551.7	35.3			G5
FVH	(80°-90°)	1498.6	3.4			G5
BL	(0°-30°)	2438.9	5.5	B3/2500		
BM	(30°-60°)	5412.4	12.3	B4/8500		
BH	(60°-80°)	3027.9	6.9	B4/5000		G4/5000
BVH	(80°-90°)	320.6	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



REPORT NUMBER: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	6516.6	6541.2	6566.2	6601.3	6636.4	6657.3	6678.2	6688.7	6699.2	6694.5	6699.2
5°	7007.3	7093.5	7180.0	7265.6	7351.4	7397.9	7444.4	7472.6	7500.9	7522.3	7500.9
7.5°	7500.2	7640.7	7780.9	7907.2	8033.4	8109.5	8185.4	8226.6	8267.5	8287.3	8267.5
10°	7878.0	8044.1	8210.1	8358.3	8506.4	8596.2	8685.4	8725.4	8765.2	8780.3	8765.2
12.5°	8109.5	8289.4	8469.2	8603.1	8736.6	8801.7	8866.8	8888.7	8910.5	8912.8	8910.5
15°	8250.1	8405.4	8560.6	8644.5	8728.7	8730.9	8733.3	8710.0	8686.8	8659.4	8686.8
17.5°	8329.2	8434.1	8539.0	8540.6	8541.9	8447.7	8353.6	8267.3	8180.8	8119.9	8180.8
20°	8416.4	8452.9	8489.7	8379.2	8268.8	8060.8	7852.9	7701.5	7550.3	7457.2	7550.3
22.5°	8517.5	8469.7	8421.7	8192.9	7964.1	7658.4	7352.5	7163.3	6974.0	6871.2	6974.0
25°	8647.7	8496.6	8345.4	7998.1	7650.7	7279.3	6908.0	6708.9	6510.4	6413.1	6510.4
27.5°	8824.4	8554.2	8283.8	7823.6	7363.7	6952.2	6540.5	6344.7	6149.2	6057.3	6149.2
30°	9062.8	8659.8	8257.1	7690.7	7124.3	6695.4	6266.6	6085.0	5903.5	5817.9	5903.5
32.5°	9344.2	8792.3	8240.8	7600.0	6959.1	6556.1	6153.2	6010.6	5867.9	5806.2	5867.9
35°	9686.0	9010.8	8335.7	7667.9	7000.2	6720.3	6440.6	6407.4	6374.1	6368.9	6374.1
37.5°	10261.5	9467.2	8672.8	8065.9	7459.0	7440.9	7422.7	7574.9	7727.0	7806.0	7727.0
40°	11131.2	10267.3	9403.5	8952.1	8500.8	8819.4	9137.9	9507.7	9877.4	10061.5	9877.4
42.5°	12284.5	11427.4	10570.3	10310.4	10050.3	10745.2	11439.9	12112.4	12784.9	13179.8	12784.9
45°	13708.8	12938.9	12168.7	12054.1	11939.2	13052.3	14165.7	15270.7	16375.8	17046.7	16375.8
47.5°	15489.9	14740.9	13991.8	13968.5	13945.2	15551.1	17156.4	18774.2	20391.7	21341.5	20391.7
50°	17824.5	16899.3	15974.3	15978.2	15982.2	18051.7	20121.2	22256.5	24391.8	25682.8	24391.8
52.5°	20504.4	19384.1	18264.0	18150.7	18037.2	20509.3	22981.3	25623.3	28265.1	29812.5	28265.1
55°	23357.5	22250.7	21143.9	20702.3	20260.8	23012.0	25763.1	28912.7	32062.3	33902.7	32062.3
57.5°	25952.6	25349.9	24746.9	23861.2	22975.7	25753.7	28531.8	32099.2	35666.4	37948.8	35666.4
60°	27520.9	28457.2	29393.5	28293.7	27193.8	29822.8	32451.7	36271.3	40090.8	42557.5	40090.8
62.5°	26724.5	29282.6	31840.7	31716.7	31592.5	34000.9	36409.4	40043.4	43677.1	45957.0	43677.1
65°	25130.5	27531.4	29932.3	30407.3	30882.2	33942.8	37003.5	40527.3	44050.7	45992.0	44050.7
67.5°	22994.7	25278.2	27561.6	27784.5	28007.0	31195.9	34384.5	37923.4	41462.3	42983.0	41462.3
70°	20428.9	22912.4	25396.3	25495.8	25595.6	28447.3	31298.9	34344.3	37389.5	38234.8	37389.5
72.5°	17371.1	20221.2	23071.5	23143.2	23214.5	25445.6	27676.7	29957.7	32238.3	32323.9	32238.3
75°	13502.9	16452.8	19402.6	19667.5	19932.4	21668.2	23404.0	25009.7	26615.3	26185.1	26615.3
77.5°	9647.6	12401.3	15155.0	15534.1	15913.1	17232.7	18552.3	19691.1	20829.9	20090.5	20829.9
80°	6314.3	8631.0	10947.5	11418.6	11889.7	12886.3	13882.4	14480.5	15078.4	13889.0	15078.4
82.5°	3670.4	5254.3	6838.2	7364.4	7890.9	8576.8	9262.8	9512.3	9761.6	8826.8	9761.6
85°	1614.9	2455.5	3296.1	3743.7	4191.3	4755.0	5318.4	5460.0	5601.6	4852.9	5601.6
87.5°	499.9	782.5	1065.0	1314.8	1564.5	1846.2	2128.1	2140.2	2152.1	1806.8	2152.1
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: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	6688.7	6678.2	6657.3	6636.4	6601.3	6566.2	6541.2	6516.6	6466.6	6416.6	6363.4
5°	7472.6	7444.4	7397.9	7351.4	7265.6	7180.0	7093.5	7007.3	6896.8	6786.3	6676.1
7.5°	8226.6	8185.4	8109.5	8033.4	7907.2	7780.9	7640.7	7500.2	7317.9	7135.8	6967.5
10°	8725.4	8685.4	8596.2	8506.4	8358.3	8210.1	8044.1	7878.0	7647.6	7417.2	7194.7
12.5°	8888.7	8866.8	8801.7	8736.6	8603.1	8469.2	8289.4	8109.5	7856.2	7603.2	7351.2
15°	8710.0	8733.3	8730.9	8728.7	8644.5	8560.6	8405.4	8250.1	7986.2	7722.2	7448.9
17.5°	8267.3	8353.6	8447.7	8541.9	8540.6	8539.0	8434.1	8329.2	8061.5	7793.9	7495.6
20°	7701.5	7852.9	8060.8	8268.8	8379.2	8489.7	8452.9	8416.4	8138.3	7859.9	7532.1
22.5°	7163.3	7352.5	7658.4	7964.1	8192.9	8421.7	8469.7	8517.5	8233.4	7949.0	7581.4
25°	6708.9	6908.0	7279.3	7650.7	7998.1	8345.4	8496.6	8647.7	8369.2	8090.8	7670.7
27.5°	6344.7	6540.5	6952.2	7363.7	7823.6	8283.8	8554.2	8824.4	8559.0	8293.2	7810.2
30°	6085.0	6266.6	6695.4	7124.3	7690.7	8257.1	8659.8	9062.8	8806.1	8549.6	7990.9
32.5°	6010.6	6153.2	6556.1	6959.1	7600.0	8240.8	8792.3	9344.2	9090.0	8836.1	8179.4
35°	6407.4	6440.6	6720.3	7000.2	7667.9	8335.7	9010.8	9686.0	9442.8	9199.3	8394.3
37.5°	7574.9	7422.7	7440.9	7459.0	8065.9	8672.8	9467.2	10261.5	9951.3	9641.2	8635.0
40°	9507.7	9137.9	8819.4	8500.8	8952.1	9403.5	10267.3	11131.2	10679.2	10227.0	8940.5
42.5°	12112.4	11439.9	10745.2	10050.3	10310.4	10570.3	11427.4	12284.5	11632.0	10979.6	9340.2
45°	15270.7	14165.7	13052.3	11939.2	12054.1	12168.7	12938.9	13708.8	12828.6	11948.5	9866.2
47.5°	18774.2	17156.4	15551.1	13945.2	13968.5	13991.8	14740.9	15489.9	14251.2	13012.3	10426.6
50°	22256.5	20121.2	18051.7	15982.2	15978.2	15974.3	16899.3	17824.5	15957.1	14089.4	10946.5
52.5°	25623.3	22981.3	20509.3	18037.2	18150.7	18264.0	19384.1	20504.4	17748.9	14993.5	11284.1
55°	28912.7	25763.1	23012.0	20260.8	20702.3	21143.9	22250.7	23357.5	19337.5	15317.8	11209.7
57.5°	32099.2	28531.8	25753.7	22975.7	23861.2	24746.9	25349.9	25952.6	20463.5	14974.4	10686.1
60°	36271.3	32451.7	29822.8	27193.8	28293.7	29393.5	28457.2	27520.9	20744.9	13968.5	9711.6
62.5°	40043.4	36409.4	34000.9	31592.5	31716.7	31840.7	29282.6	26724.5	19560.1	12395.6	8393.8
65°	40527.3	37003.5	33942.8	30882.2	30407.3	29932.3	27531.4	25130.5	17883.8	10637.0	7049.3
67.5°	37923.4	34384.5	31195.9	28007.0	27784.5	27561.6	25278.2	22994.7	15888.9	8783.1	5732.3
70°	34344.3	31298.9	28447.3	25595.6	25495.8	25396.3	22912.4	20428.9	13712.2	6995.6	4513.4
72.5°	29957.7	27676.7	25445.6	23214.5	23143.2	23071.5	20221.2	17371.1	11352.5	5334.2	3450.5
75°	25009.7	23404.0	21668.2	19932.4	19667.5	19402.6	16452.8	13502.9	8647.5	3792.1	2504.4
77.5°	19691.1	18552.3	17232.7	15913.1	15534.1	15155.0	12401.3	9647.6	6052.5	2457.3	1697.0
80°	14480.5	13882.4	12886.3	11889.7	11418.6	10947.5	8631.0	6314.3	3899.5	1484.7	1093.4
82.5°	9512.3	9262.8	8576.8	7890.9	7364.4	6838.2	5254.3	3670.4	2256.9	843.6	672.5
85°	5460.0	5318.4	4755.0	4191.3	3743.7	3296.1	2455.5	1614.9	1015.3	415.7	359.5
87.5°	2140.2	2128.1	1846.2	1564.5	1314.8	1065.0	782.5	499.9	332.5	165.1	149.0
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: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	6310.4	6256.9	6203.4	6152.3	6101.1	6051.6	5996.5	5951.8	5907.4	5867.2	5827.2
5°	6566.2	6455.2	6344.5	6241.1	6137.6	6039.9	5943.5	5859.3	5774.8	5704.1	5633.7
7.5°	6799.1	6635.2	6471.2	6326.9	6182.5	6049.2	5924.4	5812.3	5700.4	5607.5	5514.4
10°	6972.4	6773.3	6574.0	6403.4	6232.2	6067.8	5933.7	5815.5	5697.5	5604.4	5511.4
12.5°	7099.2	6864.2	6629.4	6436.2	6243.0	6070.2	5945.3	5848.5	5752.3	5690.5	5629.1
15°	7175.4	6904.9	6634.5	6410.9	6187.1	5995.7	5895.8	5849.5	5803.4	5811.9	5820.2
17.5°	7197.2	6883.3	6569.4	6300.4	6031.3	5806.2	5744.6	5761.6	5778.3	5879.7	5981.1
20°	7204.2	6823.8	6443.4	6109.9	5776.5	5514.4	5498.1	5577.2	5656.3	5832.2	6008.5
22.5°	7213.5	6750.8	6288.1	5886.5	5484.9	5186.6	5218.4	5335.3	5452.4	5653.3	5854.6
25°	7250.2	6678.7	6107.4	5637.0	5166.8	4861.1	4947.1	5082.0	5216.7	5397.4	5578.4
27.5°	7327.0	6630.5	5934.1	5408.8	4883.6	4605.2	4709.9	4840.0	4970.3	5118.8	5267.3
30°	7432.1	6608.0	5783.5	5218.2	4652.9	4419.2	4501.3	4604.5	4708.2	4831.4	4954.7
32.5°	7522.8	6580.1	5637.0	5053.8	4470.3	4282.0	4318.5	4379.7	4440.8	4539.2	4637.8
35°	7589.3	6527.5	5466.3	4892.2	4318.0	4161.1	4146.0	4162.7	4179.7	4254.8	4329.7
37.5°	7628.8	6437.6	5246.4	4702.0	4157.6	4020.5	3965.1	3946.5	3927.9	3981.8	4035.5
40°	7653.7	6313.6	4973.8	4475.0	3976.3	3851.8	3767.0	3724.8	3682.8	3721.7	3760.4
42.5°	7700.9	6185.8	4671.0	4224.5	3778.2	3663.5	3556.5	3500.7	3444.9	3476.5	3508.4
45°	7784.0	6066.9	4350.2	3958.6	3567.0	3450.8	3347.2	3292.8	3238.7	3265.1	3292.1
47.5°	7840.8	5968.8	4096.7	3748.1	3399.6	3249.6	3160.5	3115.0	3069.4	3094.5	3119.4
50°	7803.6	5861.9	3920.0	3608.4	3296.8	3099.6	2996.2	2955.7	2915.4	2954.6	2993.8
52.5°	7574.6	5681.2	3787.9	3516.3	3244.9	3018.2	2873.6	2833.6	2793.8	2852.7	2911.3
55°	7101.4	5381.7	3661.9	3449.5	3237.3	3026.4	2808.5	2745.3	2682.2	2765.7	2849.0
57.5°	6398.0	4959.4	3520.5	3370.5	3220.5	3034.5	2769.4	2677.3	2585.3	2675.0	2764.7
60°	5454.6	4411.1	3367.5	3249.6	3131.7	3008.9	2732.6	2613.4	2493.8	2572.8	2651.3
62.5°	4392.0	3754.9	3117.7	3039.4	2961.2	2946.2	2689.9	2540.6	2391.5	2441.5	2491.6
65°	3461.9	3164.5	2867.1	2830.1	2793.1	2795.0	2599.7	2441.1	2282.3	2301.5	2320.6
67.5°	2681.5	2597.1	2512.5	2533.2	2553.6	2548.6	2438.8	2306.7	2174.6	2168.6	2162.5
70°	2031.1	2055.3	2079.3	2175.0	2270.7	2270.7	2234.6	2140.7	2046.7	2025.8	2004.9
72.5°	1566.8	1639.6	1712.6	1848.4	1983.9	2006.7	2007.2	1942.8	1878.4	1847.7	1817.2
75°	1216.6	1282.6	1348.7	1500.7	1652.8	1757.9	1749.1	1699.6	1649.8	1620.5	1591.0
77.5°	936.6	981.5	1026.6	1174.2	1321.9	1495.2	1490.6	1450.8	1411.0	1381.2	1351.5
80°	702.2	720.9	739.4	864.6	989.4	1196.4	1195.7	1162.5	1128.9	1104.0	1078.9
82.5°	501.8	505.0	508.8	600.9	692.9	869.6	879.4	863.2	846.9	829.2	811.5
85°	303.4	301.9	299.9	367.4	434.8	566.2	579.0	561.6	544.1	524.4	504.6
87.5°	133.0	131.4	129.8	157.2	184.9	239.5	255.7	248.8	241.8	238.1	234.4
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: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	5792.1	5756.9	5721.7	5686.5	5659.3	5631.9	5609.7	5587.7	5570.5	5553.2	5537.5
5°	5571.4	5509.1	5452.6	5395.8	5352.3	5308.7	5278.1	5247.7	5226.1	5204.4	5187.9
7.5°	5436.1	5357.5	5288.2	5219.1	5167.2	5115.7	5079.4	5043.1	5018.2	4993.6	4978.6
10°	5427.0	5342.4	5264.5	5186.6	5124.7	5062.6	5022.2	4981.2	4957.7	4934.2	4921.7
12.5°	5562.6	5496.6	5415.8	5335.3	5256.3	5177.3	5124.9	5072.6	5046.4	5020.3	5009.6
15°	5803.0	5785.8	5715.8	5645.8	5533.3	5420.7	5341.2	5261.6	5225.1	5188.9	5174.9
17.5°	6035.1	6088.8	6032.2	5976.0	5826.9	5677.9	5560.7	5443.5	5389.6	5335.3	5317.7
20°	6121.3	6234.2	6208.0	6181.8	6011.3	5841.2	5697.5	5554.0	5484.9	5415.6	5393.5
22.5°	6001.4	6148.1	6163.8	6179.4	6016.6	5853.9	5706.1	5557.9	5485.1	5412.1	5387.7
25°	5722.8	5867.2	5921.1	5974.8	5841.4	5708.1	5576.5	5445.4	5382.1	5319.1	5296.1
27.5°	5383.1	5498.8	5558.9	5619.0	5523.9	5429.1	5327.0	5224.9	5182.6	5140.1	5129.6
30°	5050.8	5147.0	5195.8	5244.7	5172.4	5099.8	5026.8	4953.3	4931.7	4909.9	4909.9
32.5°	4729.9	4822.2	4876.3	4930.8	4864.2	4797.5	4739.2	4680.8	4666.6	4652.5	4654.3
35°	4420.8	4512.3	4577.3	4642.4	4595.0	4547.8	4493.8	4440.1	4418.5	4397.1	4392.4
37.5°	4126.4	4217.6	4298.0	4378.5	4356.7	4334.8	4285.3	4235.5	4196.2	4157.2	4136.5
40°	3848.4	3936.2	4028.8	4121.6	4127.0	4132.1	4090.0	4047.8	3990.6	3934.0	3895.3
42.5°	3591.6	3675.1	3775.1	3875.1	3901.9	3928.6	3893.0	3857.7	3786.8	3715.8	3659.8
45°	3371.2	3450.3	3554.0	3657.7	3696.0	3734.4	3702.3	3670.4	3589.3	3508.4	3442.6
47.5°	3196.8	3274.1	3376.4	3478.6	3522.8	3567.0	3544.7	3522.3	3450.3	3378.2	3317.2
50°	3066.8	3139.6	3231.2	3322.8	3379.5	3436.3	3434.9	3434.0	3376.4	3318.6	3262.4
52.5°	2978.2	3045.0	3130.4	3215.8	3283.1	3350.3	3362.4	3374.5	3327.5	3280.5	3230.1
55°	2921.0	2993.1	3068.0	3142.6	3213.8	3285.1	3301.9	3318.6	3277.7	3236.8	3192.7
57.5°	2849.4	2934.1	3008.0	3082.2	3154.0	3225.7	3242.6	3259.6	3218.2	3176.8	3133.1
60°	2748.5	2845.7	2920.8	2996.2	3068.2	3140.3	3158.9	3177.5	3137.0	3096.8	3051.7
62.5°	2604.8	2718.3	2798.5	2878.7	2944.7	3010.8	3028.7	3046.6	3010.1	2973.6	2926.2
65°	2442.1	2563.6	2640.4	2717.1	2775.2	2833.4	2851.8	2869.9	2834.7	2799.7	2753.6
67.5°	2274.6	2386.9	2459.7	2532.3	2582.5	2632.7	2650.5	2668.3	2636.0	2603.9	2561.1
70°	2103.5	2202.0	2264.8	2327.6	2373.0	2418.3	2435.5	2452.7	2426.5	2400.1	2359.2
72.5°	1894.9	1972.3	2029.1	2085.8	2130.2	2174.6	2195.0	2215.5	2193.7	2171.8	2132.7
75°	1648.6	1706.3	1757.7	1809.1	1849.5	1890.0	1911.4	1932.7	1922.1	1911.4	1878.6
77.5°	1398.4	1445.1	1489.3	1533.5	1576.0	1618.4	1638.4	1658.3	1643.5	1628.2	1595.1
80°	1118.0	1156.8	1194.0	1231.2	1263.5	1295.7	1322.1	1348.7	1342.1	1335.9	1291.5
82.5°	808.3	805.0	792.0	779.0	847.8	916.7	961.8	1006.9	1004.1	1001.0	963.6
85°	487.8	470.9	434.8	398.8	463.2	527.9	583.6	639.5	634.8	630.2	600.9
87.5°	233.7	233.0	205.5	177.8	204.9	232.1	254.6	277.2	271.6	265.6	250.7
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: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	5521.4	5501.6	5521.4	5537.5	5553.2	5570.5	5587.7	5609.7	5631.9	5659.3	5686.5
5°	5171.4	5155.1	5171.4	5187.9	5204.4	5226.1	5247.7	5278.1	5308.7	5352.3	5395.8
7.5°	4964.1	4952.9	4964.1	4978.6	4993.6	5018.2	5043.1	5079.4	5115.7	5167.2	5219.1
10°	4909.1	4904.0	4909.1	4921.7	4934.2	4957.7	4981.2	5022.2	5062.6	5124.7	5186.6
12.5°	4998.9	4997.1	4998.9	5009.6	5020.3	5046.4	5072.6	5124.9	5177.3	5256.3	5335.3
15°	5161.0	5159.8	5161.0	5174.9	5188.9	5225.1	5261.6	5341.2	5420.7	5533.3	5645.8
17.5°	5299.8	5297.0	5299.8	5317.7	5335.3	5389.6	5443.5	5560.7	5677.9	5826.9	5976.0
20°	5371.4	5364.4	5371.4	5393.5	5415.6	5484.9	5554.0	5697.5	5841.2	6011.3	6181.8
22.5°	5363.3	5352.9	5363.3	5387.7	5412.1	5485.1	5557.9	5706.1	5853.9	6016.6	6179.4
25°	5273.3	5259.8	5273.3	5296.1	5319.1	5382.1	5445.4	5576.5	5708.1	5841.4	5974.8
27.5°	5119.2	5115.7	5119.2	5129.6	5140.1	5182.6	5224.9	5327.0	5429.1	5523.9	5619.0
30°	4909.9	4913.3	4909.9	4909.9	4909.9	4931.7	4953.3	5026.8	5099.8	5172.4	5244.7
32.5°	4656.4	4659.9	4656.4	4654.3	4652.5	4666.6	4680.8	4739.2	4797.5	4864.2	4930.8
35°	4387.8	4385.5	4387.8	4392.4	4397.1	4418.5	4440.1	4493.8	4547.8	4595.0	4642.4
37.5°	4115.8	4104.1	4115.8	4136.5	4157.2	4196.2	4235.5	4285.3	4334.8	4356.7	4378.5
40°	3857.2	3834.4	3857.2	3895.3	3934.0	3990.6	4047.8	4090.0	4132.1	4127.0	4121.6
42.5°	3603.7	3567.0	3603.7	3659.8	3715.8	3786.8	3857.7	3893.0	3928.6	3901.9	3875.1
45°	3376.8	3334.4	3376.8	3442.6	3508.4	3589.3	3670.4	3702.3	3734.4	3696.0	3657.7
47.5°	3256.5	3215.8	3256.5	3317.2	3378.2	3450.3	3522.3	3544.7	3567.0	3522.8	3478.6
50°	3206.1	3167.0	3206.1	3262.4	3318.6	3376.4	3434.0	3434.9	3436.3	3379.5	3322.8
52.5°	3179.9	3143.8	3179.9	3230.1	3280.5	3327.5	3374.5	3362.4	3350.3	3283.1	3215.8
55°	3148.5	3115.9	3148.5	3192.7	3236.8	3277.7	3318.6	3301.9	3285.1	3213.8	3142.6
57.5°	3089.1	3055.4	3089.1	3133.1	3176.8	3218.2	3259.6	3242.6	3225.7	3154.0	3082.2
60°	3006.6	2971.7	3006.6	3051.7	3096.8	3137.0	3177.5	3158.9	3140.3	3068.2	2996.2
62.5°	2878.7	2836.9	2878.7	2926.2	2973.6	3010.1	3046.6	3028.7	3010.8	2944.7	2878.7
65°	2707.8	2671.8	2707.8	2753.6	2799.7	2834.7	2869.9	2851.8	2833.4	2775.2	2717.1
67.5°	2518.3	2485.7	2518.3	2561.1	2603.9	2636.0	2668.3	2650.5	2632.7	2582.5	2532.3
70°	2318.3	2281.1	2318.3	2359.2	2400.1	2426.5	2452.7	2435.5	2418.3	2373.0	2327.6
72.5°	2094.0	2057.9	2094.0	2132.7	2171.8	2193.7	2215.5	2195.0	2174.6	2130.2	2085.8
75°	1845.8	1811.4	1845.8	1878.6	1911.4	1922.1	1932.7	1911.4	1890.0	1849.5	1809.1
77.5°	1562.1	1534.7	1562.1	1595.1	1628.2	1643.5	1658.3	1638.4	1618.4	1576.0	1533.5
80°	1246.8	1195.1	1246.8	1291.5	1335.9	1342.1	1348.7	1322.1	1295.7	1263.5	1231.2
82.5°	925.9	892.9	925.9	963.6	1001.0	1004.1	1006.9	961.8	916.7	847.8	779.0
85°	571.5	541.8	571.5	600.9	630.2	634.8	639.5	583.6	527.9	463.2	398.8
87.5°	235.3	220.9	235.3	250.7	265.6	271.6	277.2	254.6	232.1	204.9	177.8
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: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	5721.7	5756.9	5792.1	5827.2	5867.2	5907.4	5951.8	5996.5	6051.6	6101.1	6152.3
5°	5452.6	5509.1	5571.4	5633.7	5704.1	5774.8	5859.3	5943.5	6039.9	6137.6	6241.1
7.5°	5288.2	5357.5	5436.1	5514.4	5607.5	5700.4	5812.3	5924.4	6049.2	6182.5	6326.9
10°	5264.5	5342.4	5427.0	5511.4	5604.4	5697.5	5815.5	5933.7	6067.8	6232.2	6403.4
12.5°	5415.8	5496.6	5562.6	5629.1	5690.5	5752.3	5848.5	5945.3	6070.2	6243.0	6436.2
15°	5715.8	5785.8	5803.0	5820.2	5811.9	5803.4	5849.5	5895.8	5995.7	6187.1	6410.9
17.5°	6032.2	6088.8	6035.1	5981.1	5879.7	5778.3	5761.6	5744.6	5806.2	6031.3	6300.4
20°	6208.0	6234.2	6121.3	6008.5	5832.2	5656.3	5577.2	5498.1	5514.4	5776.5	6109.9
22.5°	6163.8	6148.1	6001.4	5854.6	5653.3	5452.4	5335.3	5218.4	5186.6	5484.9	5886.5
25°	5921.1	5867.2	5722.8	5578.4	5397.4	5216.7	5082.0	4947.1	4861.1	5166.8	5637.0
27.5°	5558.9	5498.8	5383.1	5267.3	5118.8	4970.3	4840.0	4709.9	4605.2	4883.6	5408.8
30°	5195.8	5147.0	5050.8	4954.7	4831.4	4708.2	4604.5	4501.3	4419.2	4652.9	5218.2
32.5°	4876.3	4822.2	4729.9	4637.8	4539.2	4440.8	4379.7	4318.5	4282.0	4470.3	5053.8
35°	4577.3	4512.3	4420.8	4329.7	4254.8	4179.7	4162.7	4146.0	4161.1	4318.0	4892.2
37.5°	4298.0	4217.6	4126.4	4035.5	3981.8	3927.9	3946.5	3965.1	4020.5	4157.6	4702.0
40°	4028.8	3936.2	3848.4	3760.4	3721.7	3682.8	3724.8	3767.0	3851.8	3976.3	4475.0
42.5°	3775.1	3675.1	3591.6	3508.4	3476.5	3444.9	3500.7	3556.5	3663.5	3778.2	4224.5
45°	3554.0	3450.3	3371.2	3292.1	3265.1	3238.7	3292.8	3347.2	3450.8	3567.0	3958.6
47.5°	3376.4	3274.1	3196.8	3119.4	3094.5	3069.4	3115.0	3160.5	3249.6	3399.6	3748.1
50°	3231.2	3139.6	3066.8	2993.8	2954.6	2915.4	2955.7	2996.2	3099.6	3296.8	3608.4
52.5°	3130.4	3045.0	2978.2	2911.3	2852.7	2793.8	2833.6	2873.6	3018.2	3244.9	3516.3
55°	3068.0	2993.1	2921.0	2849.0	2765.7	2682.2	2745.3	2808.5	3026.4	3237.3	3449.5
57.5°	3008.0	2934.1	2849.4	2764.7	2675.0	2585.3	2677.3	2769.4	3034.5	3220.5	3370.5
60°	2920.8	2845.7	2748.5	2651.3	2572.8	2493.8	2613.4	2732.6	3008.9	3131.7	3249.6
62.5°	2798.5	2718.3	2604.8	2491.6	2441.5	2391.5	2540.6	2689.9	2946.2	2961.2	3039.4
65°	2640.4	2563.6	2442.1	2320.6	2301.5	2282.3	2441.1	2599.7	2795.0	2793.1	2830.1
67.5°	2459.7	2386.9	2274.6	2162.5	2168.6	2174.6	2306.7	2438.8	2548.6	2553.6	2533.2
70°	2264.8	2202.0	2103.5	2004.9	2025.8	2046.7	2140.7	2234.6	2270.7	2270.7	2175.0
72.5°	2029.1	1972.3	1894.9	1817.2	1847.7	1878.4	1942.8	2007.2	2006.7	1983.9	1848.4
75°	1757.7	1706.3	1648.6	1591.0	1620.5	1649.8	1699.6	1749.1	1757.9	1652.8	1500.7
77.5°	1489.3	1445.1	1398.4	1351.5	1381.2	1411.0	1450.8	1490.6	1495.2	1321.9	1174.2
80°	1194.0	1156.8	1118.0	1078.9	1104.0	1128.9	1162.5	1195.7	1196.4	989.4	864.6
82.5°	792.0	805.0	808.3	811.5	829.2	846.9	863.2	879.4	869.6	692.9	600.9
85°	434.8	470.9	487.8	504.6	524.4	544.1	561.6	579.0	566.2	434.8	367.4
87.5°	205.5	233.0	233.7	234.4	238.1	241.8	248.8	255.7	239.5	184.9	157.2
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: P967291

CATALOG NUMBER: NAV-SB4D-760-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	6203.4	6256.9	6310.4	6363.4	6416.6	6466.6	6516.6
5°	6344.5	6455.2	6566.2	6676.1	6786.3	6896.8	7007.3
7.5°	6471.2	6635.2	6799.1	6967.5	7135.8	7317.9	7500.2
10°	6574.0	6773.3	6972.4	7194.7	7417.2	7647.6	7878.0
12.5°	6629.4	6864.2	7099.2	7351.2	7603.2	7856.2	8109.5
15°	6634.5	6904.9	7175.4	7448.9	7722.2	7986.2	8250.1
17.5°	6569.4	6883.3	7197.2	7495.6	7793.9	8061.5	8329.2
20°	6443.4	6823.8	7204.2	7532.1	7859.9	8138.3	8416.4
22.5°	6288.1	6750.8	7213.5	7581.4	7949.0	8233.4	8517.5
25°	6107.4	6678.7	7250.2	7670.7	8090.8	8369.2	8647.7
27.5°	5934.1	6630.5	7327.0	7810.2	8293.2	8559.0	8824.4
30°	5783.5	6608.0	7432.1	7990.9	8549.6	8806.1	9062.8
32.5°	5637.0	6580.1	7522.8	8179.4	8836.1	9090.0	9344.2
35°	5466.3	6527.5	7589.3	8394.3	9199.3	9442.8	9686.0
37.5°	5246.4	6437.6	7628.8	8635.0	9641.2	9951.3	10261.5
40°	4973.8	6313.6	7653.7	8940.5	10227.0	10679.2	11131.2
42.5°	4671.0	6185.8	7700.9	9340.2	10979.6	11632.0	12284.5
45°	4350.2	6066.9	7784.0	9866.2	11948.5	12828.6	13708.8
47.5°	4096.7	5968.8	7840.8	10426.6	13012.3	14251.2	15489.9
50°	3920.0	5861.9	7803.6	10946.5	14089.4	15957.1	17824.5
52.5°	3787.9	5681.2	7574.6	11284.1	14993.5	17748.9	20504.4
55°	3661.9	5381.7	7101.4	11209.7	15317.8	19337.5	23357.5
57.5°	3520.5	4959.4	6398.0	10686.1	14974.4	20463.5	25952.6
60°	3367.5	4411.1	5454.6	9711.6	13968.5	20744.9	27520.9
62.5°	3117.7	3754.9	4392.0	8393.8	12395.6	19560.1	26724.5
65°	2867.1	3164.5	3461.9	7049.3	10637.0	17883.8	25130.5
67.5°	2512.5	2597.1	2681.5	5732.3	8783.1	15888.9	22994.7
70°	2079.3	2055.3	2031.1	4513.4	6995.6	13712.2	20428.9
72.5°	1712.6	1639.6	1566.8	3450.5	5334.2	11352.5	17371.1
75°	1348.7	1282.6	1216.6	2504.4	3792.1	8647.5	13502.9
77.5°	1026.6	981.5	936.6	1697.0	2457.3	6052.5	9647.6
80°	739.4	720.9	702.2	1093.4	1484.7	3899.5	6314.3
82.5°	508.8	505.0	501.8	672.5	843.6	2256.9	3670.4
85°	299.9	301.9	303.4	359.5	415.7	1015.3	1614.9
87.5°	129.8	131.4	133.0	149.0	165.1	332.5	499.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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