

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: P966640

Luminaire Tested: **NAV-SB4C-730-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966640
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-SB4C-730-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30654.7 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

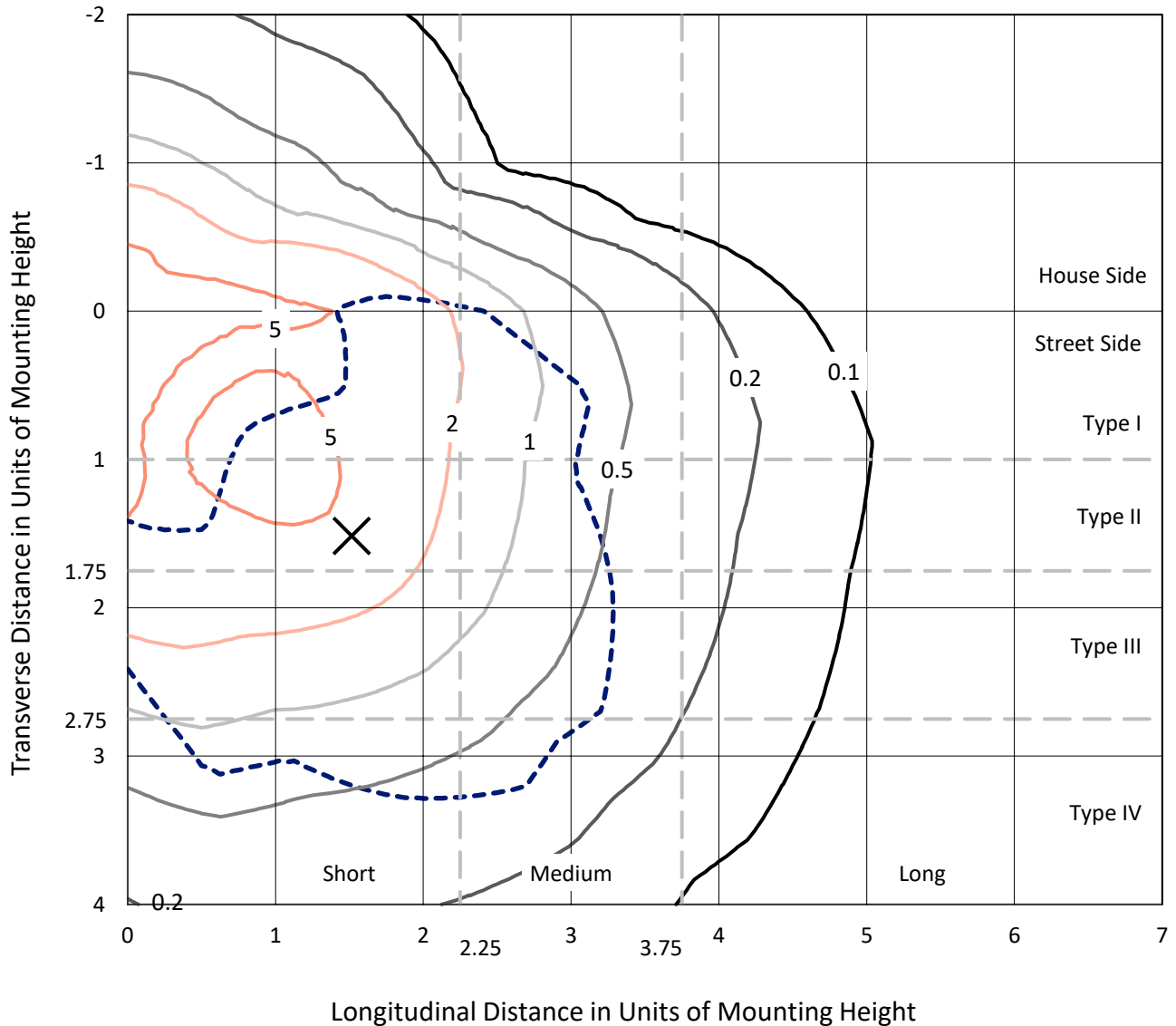
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

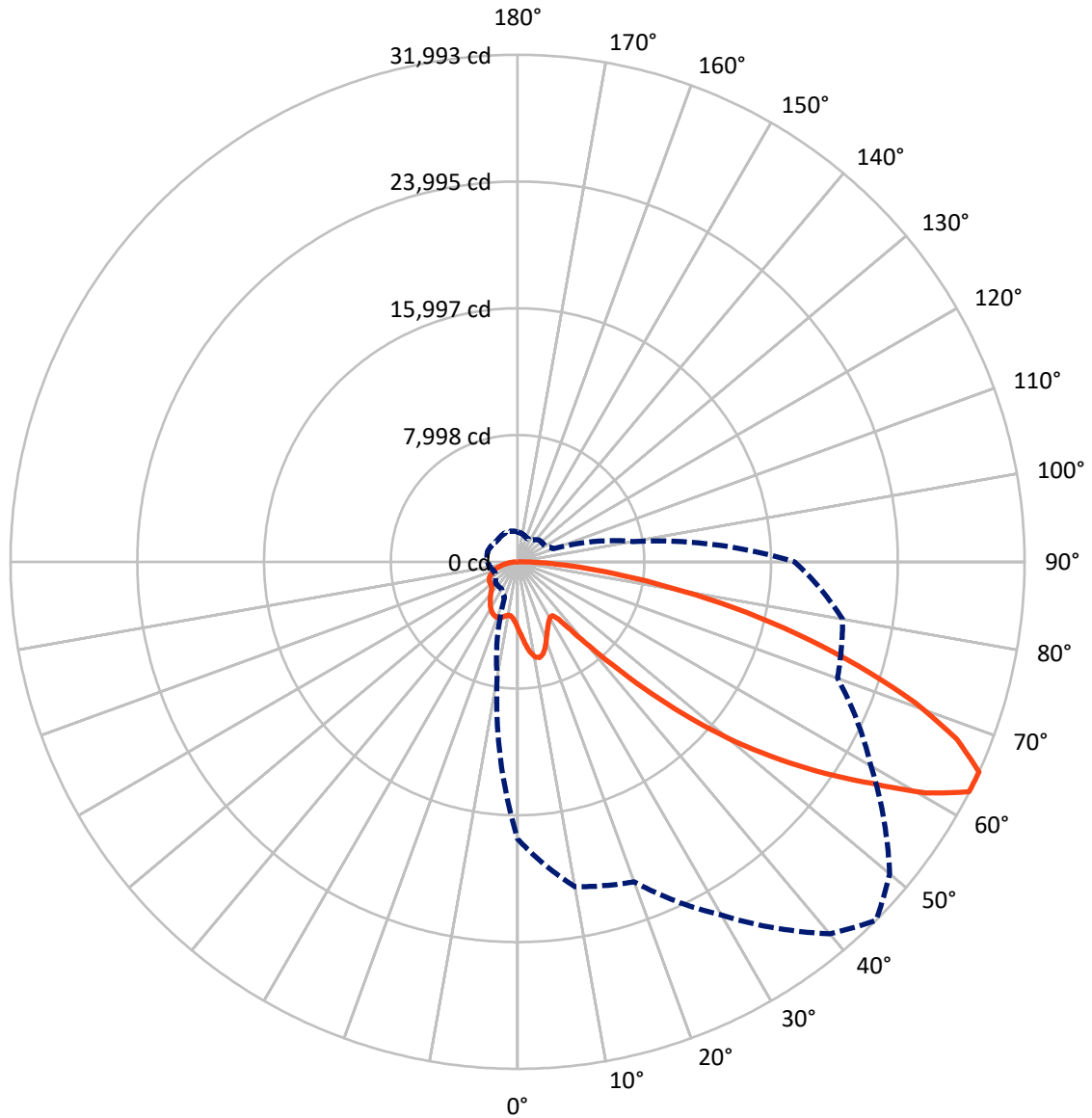
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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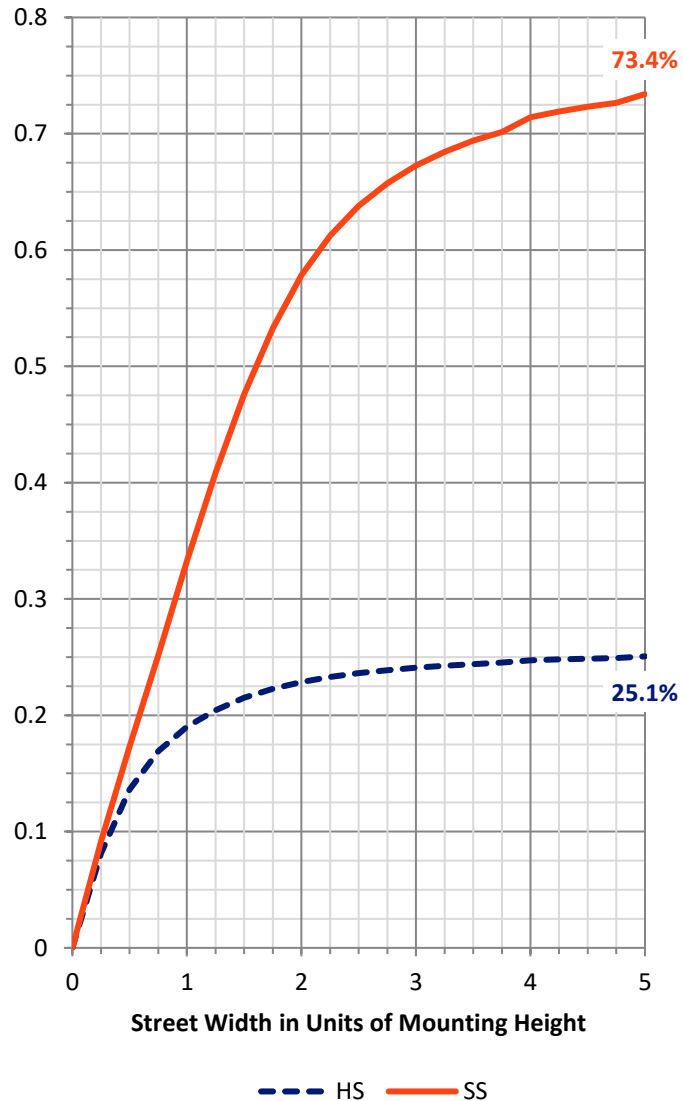
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7790.9	0.0	7790.9
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	22863.8	0.0	22863.8
	% Fixture	74.6	0.0	74.6
Total	Lumens	30654.7	0.0	30654.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.1	1.4
10°-20°	1312.7	4.3
20°-30°	2027.6	6.6
30°-40°	2569.5	8.4
40°-50°	3875.5	12.6
50°-60°	6261.4	20.4
60°-70°	7805.8	25.5
70°-80°	5118.7	16.7
80°-90°	1265.5	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°	30654.7	100.0
0°-180°	30654.7	100.0

Coefficient of Utilization

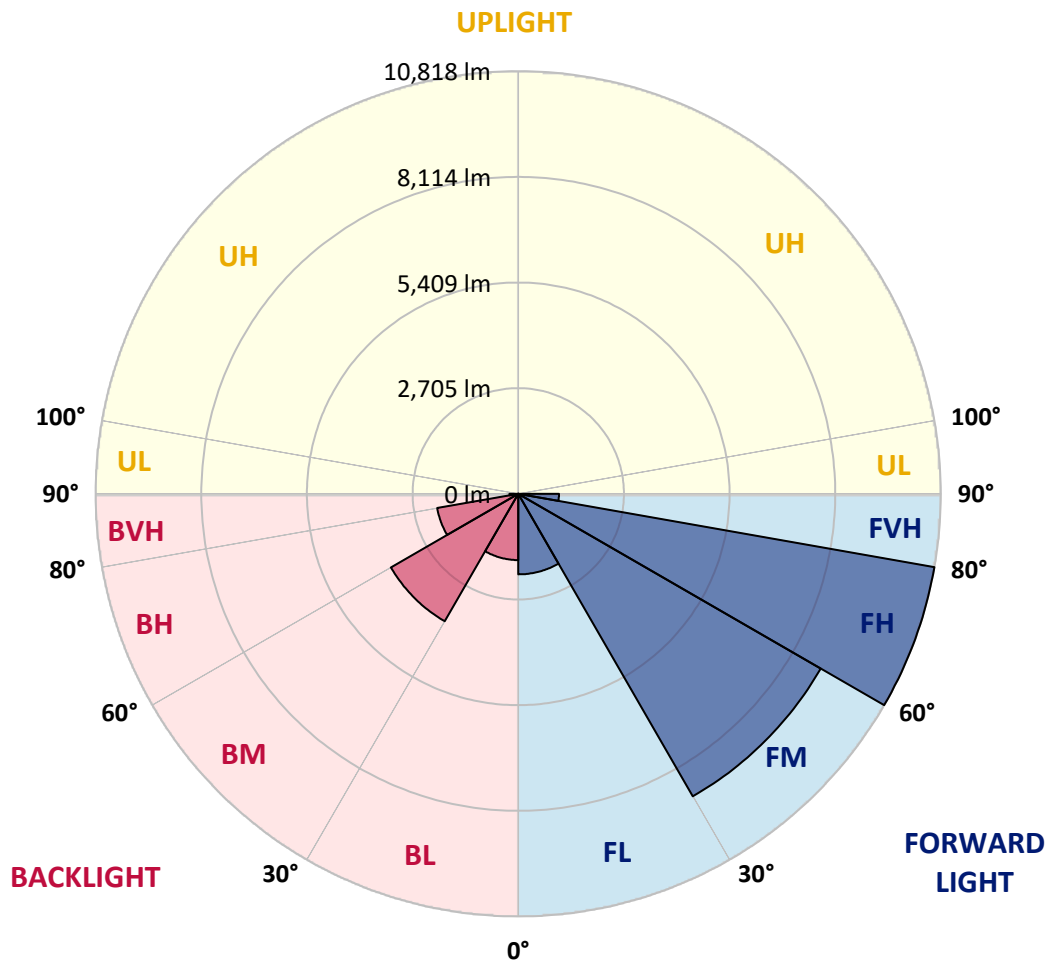


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.9	6.7			
FM (30°-60°)	8941.3	29.2			
FH (60°-80°)	10818.2	35.3			G4/12000
FVH (80°-90°)	1042.5	3.4			G5
BL (0°-30°)	1696.6	5.5	B3/2500		
BM (30°-60°)	3765.0	12.3	B3/5000		
BH (60°-80°)	2106.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	223.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3
2.5°	4533.2	4550.3	4567.6	4592.0	4616.4	4631.0	4645.5	4652.8	4660.1	4656.9	4660.1
5°	4874.4	4934.5	4994.6	5054.2	5113.8	5146.2	5178.5	5198.1	5217.9	5232.7	5217.9
7.5°	5217.4	5315.0	5412.6	5500.5	5588.2	5641.1	5694.0	5722.7	5751.2	5764.9	5751.2
10°	5480.2	5595.7	5711.2	5814.2	5917.2	5979.6	6041.8	6069.6	6097.3	6107.8	6097.3
12.5°	5641.1	5766.3	5891.4	5984.6	6077.4	6122.6	6167.9	6183.2	6198.4	6200.0	6198.4
15°	5739.0	5847.0	5954.9	6013.4	6071.9	6073.5	6075.1	6059.0	6042.8	6023.7	6042.8
17.5°	5794.0	5866.9	5939.9	5941.0	5942.0	5876.5	5810.9	5751.0	5690.8	5648.4	5690.8
20°	5854.7	5880.0	5905.6	5828.8	5751.9	5607.4	5462.7	5357.5	5252.1	5187.4	5252.1
22.5°	5925.0	5891.7	5858.4	5699.2	5540.0	5327.3	5114.6	4982.9	4851.3	4779.8	4851.3
25°	6015.6	5910.5	5805.3	5563.7	5322.0	5063.7	4805.4	4666.9	4528.8	4461.1	4528.8
27.5°	6138.5	5950.5	5762.4	5442.3	5122.4	4836.1	4549.8	4413.5	4277.5	4213.7	4277.5
30°	6304.4	6024.0	5743.9	5349.8	4955.8	4657.5	4359.2	4232.9	4106.6	4047.1	4106.6
32.5°	6500.0	6116.2	5732.5	5286.7	4841.0	4560.6	4280.3	4181.2	4081.9	4039.0	4081.9
35°	6737.8	6268.1	5798.5	5334.0	4869.6	4674.8	4480.3	4457.1	4433.9	4430.5	4433.9
37.5°	7138.2	6585.6	6033.0	5610.8	5188.8	5176.0	5163.4	5269.2	5375.1	5430.0	5375.1
40°	7743.2	7142.2	6541.2	6227.3	5913.3	6134.9	6356.5	6613.7	6871.0	6999.0	6871.0
42.5°	8545.4	7949.2	7352.9	7172.1	6991.3	7474.6	7957.9	8425.7	8893.5	9168.1	8893.5
45°	9536.2	9000.6	8464.9	8385.1	8305.2	9079.6	9853.9	10622.7	11391.4	11858.1	11391.4
47.5°	10775.2	10254.2	9733.0	9716.8	9700.6	10817.7	11934.5	13059.7	14185.0	14845.7	14185.0
50°	12399.2	11755.5	11112.1	11114.9	11117.6	12557.2	13996.8	15482.2	16967.5	17865.6	16967.5
52.5°	14263.4	13484.1	12704.9	12626.2	12547.1	14266.8	15986.4	17824.2	19661.9	20738.3	19661.9
55°	16248.1	15478.1	14708.2	14401.0	14093.9	16007.7	17921.4	20112.3	22303.3	23583.6	22303.3
57.5°	18053.2	17634.0	17214.6	16598.4	15982.5	17914.9	19847.4	22329.0	24810.4	26398.1	24810.4
60°	19144.2	19795.5	20446.9	19681.7	18916.7	20745.5	22574.3	25231.2	27888.2	29604.0	27888.2
62.5°	18590.2	20369.7	22149.1	22062.9	21976.6	23651.9	25327.2	27855.2	30382.8	31968.8	30382.8
65°	17481.5	19151.5	20821.6	21152.1	21482.4	23611.4	25740.5	28191.8	30642.8	31993.1	30642.8
67.5°	15995.7	17584.2	19172.6	19327.5	19482.4	21700.6	23918.7	26380.4	28842.2	29900.1	28842.2
70°	14210.8	15938.4	17666.3	17735.6	17805.0	19788.6	21772.2	23890.7	26009.1	26597.0	26009.1
72.5°	12083.7	14066.4	16049.1	16099.0	16148.6	17700.6	19252.7	20839.3	22425.8	22485.3	22425.8
75°	9393.0	11444.9	13497.0	13681.2	13865.5	15072.9	16280.5	17397.3	18514.3	18215.0	18514.3
77.5°	6711.1	8626.6	10542.2	10805.9	11069.6	11987.5	12905.5	13697.6	14489.8	13975.5	14489.8
80°	4392.4	6003.9	7615.3	7943.0	8270.7	8964.0	9656.9	10073.0	10488.8	9661.5	10488.8
82.5°	2553.3	3654.9	4756.8	5122.8	5489.1	5966.2	6443.5	6617.0	6790.4	6140.2	6790.4
85°	1123.4	1708.1	2292.8	2604.2	2915.6	3307.7	3699.6	3798.1	3896.6	3375.7	3896.6
87.5°	347.8	544.3	740.9	914.5	1088.2	1284.3	1480.4	1488.8	1497.0	1256.9	1497.0
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°	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3
2.5°	4652.8	4645.5	4631.0	4616.4	4592.0	4567.6	4550.3	4533.2	4498.3	4463.6	4426.6
5°	5198.1	5178.5	5146.2	5113.8	5054.2	4994.6	4934.5	4874.4	4797.6	4720.7	4644.1
7.5°	5722.7	5694.0	5641.1	5588.2	5500.5	5412.6	5315.0	5217.4	5090.6	4963.9	4846.8
10°	6069.6	6041.8	5979.6	5917.2	5814.2	5711.2	5595.7	5480.2	5319.9	5159.6	5004.8
12.5°	6183.2	6167.9	6122.6	6077.4	5984.6	5891.4	5766.3	5641.1	5465.0	5289.0	5113.6
15°	6059.0	6075.1	6073.5	6071.9	6013.4	5954.9	5847.0	5739.0	5555.4	5371.8	5181.6
17.5°	5751.0	5810.9	5876.5	5942.0	5941.0	5939.9	5866.9	5794.0	5607.8	5421.6	5214.1
20°	5357.5	5462.7	5607.4	5751.9	5828.8	5905.6	5880.0	5854.7	5661.2	5467.6	5239.5
22.5°	4982.9	5114.6	5327.3	5540.0	5699.2	5858.4	5891.7	5925.0	5727.4	5529.6	5273.8
25°	4666.9	4805.4	5063.7	5322.0	5563.7	5805.3	5910.5	6015.6	5821.8	5628.2	5335.9
27.5°	4413.5	4549.8	4836.1	5122.4	5442.3	5762.4	5950.5	6138.5	5953.8	5768.9	5432.9
30°	4232.9	4359.2	4657.5	4955.8	5349.8	5743.9	6024.0	6304.4	6125.7	5947.4	5558.7
32.5°	4181.2	4280.3	4560.6	4841.0	5286.7	5732.5	6116.2	6500.0	6323.2	6146.6	5689.8
35°	4457.1	4480.3	4674.8	4869.6	5334.0	5798.5	6268.1	6737.8	6568.6	6399.3	5839.3
37.5°	5269.2	5163.4	5176.0	5188.8	5610.8	6033.0	6585.6	7138.2	6922.3	6706.6	6006.7
40°	6613.7	6356.5	6134.9	5913.3	6227.3	6541.2	7142.2	7743.2	7428.7	7114.2	6219.3
42.5°	8425.7	7957.9	7474.6	6991.3	7172.1	7352.9	7949.2	8545.4	8091.6	7637.7	6497.3
45°	10622.7	9853.9	9079.6	8305.2	8385.1	8464.9	9000.6	9536.2	8924.0	8311.7	6863.2
47.5°	13059.7	11934.5	10817.7	9700.6	9716.8	9733.0	10254.2	10775.2	9913.5	9051.7	7253.0
50°	15482.2	13996.8	12557.2	11117.6	11114.9	11112.1	11755.5	12399.2	11100.1	9800.9	7614.7
52.5°	17824.2	15986.4	14266.8	12547.1	12626.2	12704.9	13484.1	14263.4	12346.6	10429.8	7849.6
55°	20112.3	17921.4	16007.7	14093.9	14401.0	14708.2	15478.1	16248.1	13451.7	10655.5	7797.8
57.5°	22329.0	19847.4	17914.9	15982.5	16598.4	17214.6	17634.0	18053.2	14234.9	10416.6	7433.5
60°	25231.2	22574.3	20745.5	18916.7	19681.7	20446.9	19795.5	19144.2	14430.7	9716.8	6755.6
62.5°	27855.2	25327.2	23651.9	21976.6	22062.9	22149.1	20369.7	18590.2	13606.5	8622.7	5838.9
65°	28191.8	25740.5	23611.4	21482.4	21152.1	20821.6	19151.5	17481.5	12440.4	7399.4	4903.7
67.5°	26380.4	23918.7	21700.6	19482.4	19327.5	19172.6	17584.2	15995.7	11052.8	6109.7	3987.6
70°	23890.7	21772.2	19788.6	17805.0	17735.6	17666.3	15938.4	14210.8	9538.5	4866.3	3139.6
72.5°	20839.3	19252.7	17700.6	16148.6	16099.0	16049.1	14066.4	12083.7	7897.1	3710.6	2400.2
75°	17397.3	16280.5	15072.9	13865.5	13681.2	13497.0	11444.9	9393.0	6015.4	2637.8	1742.1
77.5°	13697.6	12905.5	11987.5	11069.6	10805.9	10542.2	8626.6	6711.1	4210.3	1709.4	1180.5
80°	10073.0	9656.9	8964.0	8270.7	7943.0	7615.3	6003.9	4392.4	2712.6	1032.8	760.6
82.5°	6617.0	6443.5	5966.2	5489.1	5122.8	4756.8	3654.9	2553.3	1570.0	586.8	467.8
85°	3798.1	3699.6	3307.7	2915.6	2604.2	2292.8	1708.1	1123.4	706.2	289.3	250.1
87.5°	1488.8	1480.4	1284.3	1088.2	914.5	740.9	544.3	347.8	231.3	114.8	103.7
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°	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3
2.5°	4389.7	4352.5	4315.2	4279.7	4244.1	4209.6	4171.2	4140.2	4109.3	4081.3	4053.6
5°	4567.6	4490.4	4413.4	4341.5	4269.4	4201.6	4134.4	4075.8	4017.2	3968.0	3919.0
7.5°	4729.7	4615.6	4501.6	4401.1	4300.7	4208.0	4121.1	4043.2	3965.4	3900.6	3836.0
10°	4850.2	4711.7	4573.0	4454.3	4335.3	4221.0	4127.6	4045.5	3963.3	3898.6	3833.9
12.5°	4938.3	4775.0	4611.6	4477.2	4342.7	4222.6	4135.7	4068.4	4001.4	3958.4	3915.7
15°	4991.3	4803.3	4615.2	4459.6	4303.9	4170.8	4101.2	4069.0	4037.1	4042.8	4048.6
17.5°	5006.6	4788.2	4569.9	4382.7	4195.5	4039.0	3996.1	4008.0	4019.5	4090.1	4160.6
20°	5011.4	4746.8	4482.2	4250.3	4018.3	3836.0	3824.7	3879.6	3934.7	4057.1	4179.7
22.5°	5017.9	4696.0	4374.1	4094.8	3815.5	3607.9	3630.0	3711.4	3792.8	3932.5	4072.6
25°	5043.4	4645.9	4248.4	3921.2	3594.2	3381.5	3441.3	3535.1	3628.9	3754.6	3880.4
27.5°	5096.8	4612.4	4128.0	3762.6	3397.2	3203.5	3276.3	3366.9	3457.4	3560.8	3664.1
30°	5170.0	4596.7	4023.1	3629.9	3236.6	3074.1	3131.2	3203.0	3275.2	3360.9	3446.7
32.5°	5233.0	4577.2	3921.2	3515.5	3109.7	2978.6	3004.1	3046.6	3089.1	3157.6	3226.2
35°	5279.3	4540.8	3802.4	3403.1	3003.8	2894.6	2884.0	2895.7	2907.5	2959.8	3011.9
37.5°	5306.8	4478.1	3649.5	3270.8	2892.1	2796.7	2758.2	2745.3	2732.3	2769.9	2807.3
40°	5324.1	4391.9	3459.9	3112.9	2766.0	2679.5	2620.4	2591.1	2561.9	2588.8	2615.9
42.5°	5357.0	4303.0	3249.2	2938.8	2628.2	2548.5	2474.0	2435.2	2396.3	2418.4	2440.5
45°	5414.7	4220.3	3026.1	2753.7	2481.3	2400.4	2328.4	2290.6	2252.8	2271.3	2290.1
47.5°	5454.3	4152.1	2849.8	2607.3	2364.8	2260.5	2198.5	2166.8	2135.2	2152.6	2169.9
50°	5428.4	4077.7	2726.8	2510.1	2293.3	2156.2	2084.2	2056.0	2028.1	2055.2	2082.6
52.5°	5269.1	3952.0	2635.0	2446.1	2257.3	2099.5	1999.0	1971.1	1943.5	1984.4	2025.2
55°	4939.9	3743.6	2547.3	2399.6	2251.9	2105.2	1953.6	1909.7	1865.8	1923.9	1981.8
57.5°	4450.7	3449.8	2448.9	2344.6	2240.2	2110.9	1926.5	1862.4	1798.4	1860.8	1923.2
60°	3794.4	3068.4	2342.5	2260.5	2178.5	2093.0	1901.0	1817.9	1734.8	1789.6	1844.3
62.5°	3055.2	2612.0	2168.8	2114.3	2059.9	2049.4	1871.1	1767.3	1663.7	1698.4	1733.2
65°	2408.1	2201.3	1994.4	1968.7	1943.0	1944.2	1808.4	1698.1	1587.6	1601.0	1614.3
67.5°	1865.3	1806.7	1747.7	1762.2	1776.3	1772.8	1696.5	1604.6	1512.7	1508.5	1504.3
70°	1413.0	1429.8	1446.4	1513.0	1579.5	1579.5	1554.4	1489.1	1423.7	1409.2	1394.6
72.5°	1089.9	1140.5	1191.4	1285.8	1380.1	1395.9	1396.3	1351.5	1306.7	1285.2	1264.1
75°	846.3	892.3	938.2	1044.0	1149.7	1222.8	1216.7	1182.2	1147.6	1127.3	1106.7
77.5°	651.5	682.8	714.1	816.8	919.5	1040.1	1036.8	1009.2	981.5	960.8	940.1
80°	488.5	501.4	514.3	601.4	688.3	832.2	831.7	808.6	785.4	768.0	750.5
82.5°	349.0	351.4	353.9	418.0	482.1	605.0	611.7	600.4	589.1	576.8	564.5
85°	211.0	209.9	208.7	255.5	302.5	393.9	402.7	390.6	378.5	364.8	351.0
87.5°	92.6	91.4	90.3	109.4	128.6	166.6	177.9	173.1	168.2	165.6	163.1
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: P966640
 CATALOG NUMBER: NAV-SB4C-730-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3
2.5°	4029.1	4004.7	3980.1	3955.7	3936.7	3917.7	3902.3	3886.9	3874.9	3863.0	3852.0
5°	3875.6	3832.3	3792.9	3753.4	3723.2	3692.9	3671.7	3650.4	3635.4	3620.4	3608.8
7.5°	3781.4	3726.8	3678.6	3630.6	3594.5	3558.6	3533.4	3508.1	3490.7	3473.6	3463.3
10°	3775.2	3716.2	3662.1	3607.9	3564.8	3521.7	3493.5	3465.1	3448.7	3432.4	3423.7
12.5°	3869.5	3823.6	3767.4	3711.4	3656.4	3601.4	3565.1	3528.7	3510.3	3492.3	3484.8
15°	4036.8	4024.8	3976.1	3927.4	3849.1	3770.8	3715.4	3660.2	3634.8	3609.5	3599.8
17.5°	4198.1	4235.5	4196.1	4157.1	4053.4	3949.6	3868.1	3786.7	3749.1	3711.4	3699.1
20°	4258.2	4336.6	4318.5	4300.2	4181.6	4063.2	3963.3	3863.4	3815.5	3767.2	3751.9
22.5°	4174.7	4276.7	4287.8	4298.5	4185.4	4072.1	3969.2	3866.2	3815.6	3764.8	3747.8
25°	3980.9	4081.3	4118.9	4156.3	4063.4	3970.7	3879.1	3787.9	3743.9	3700.1	3684.1
27.5°	3744.5	3825.1	3866.9	3908.7	3842.6	3776.6	3705.6	3634.5	3605.1	3575.5	3568.2
30°	3513.4	3580.4	3614.4	3648.4	3598.1	3547.5	3496.8	3445.6	3430.6	3415.4	3415.4
32.5°	3290.2	3354.4	3392.1	3430.0	3383.7	3337.3	3296.7	3256.1	3246.2	3236.3	3237.7
35°	3075.2	3138.9	3184.1	3229.4	3196.4	3163.6	3126.0	3088.6	3073.7	3058.7	3055.5
37.5°	2870.5	2933.9	2989.8	3045.8	3030.6	3015.4	2980.9	2946.4	2919.0	2891.8	2877.4
40°	2677.0	2738.2	2802.6	2867.0	2870.8	2874.3	2845.1	2815.8	2776.0	2736.5	2709.7
42.5°	2498.4	2556.6	2626.0	2695.6	2714.2	2732.9	2708.0	2683.4	2634.1	2584.8	2545.8
45°	2345.1	2400.1	2472.2	2544.4	2571.1	2597.8	2575.4	2553.3	2496.8	2440.5	2394.7
47.5°	2223.7	2277.4	2348.7	2419.8	2450.6	2481.3	2465.7	2450.3	2400.1	2349.9	2307.6
50°	2133.3	2184.0	2247.7	2311.5	2350.9	2390.4	2389.4	2388.8	2348.7	2308.5	2269.4
52.5°	2071.7	2118.2	2177.5	2237.1	2283.8	2330.5	2338.9	2347.4	2314.7	2282.1	2246.9
55°	2032.0	2082.1	2134.2	2186.1	2235.6	2285.2	2296.9	2308.5	2280.1	2251.6	2220.9
57.5°	1982.1	2041.0	2092.4	2144.0	2194.0	2243.8	2255.6	2267.4	2238.7	2209.9	2179.5
60°	1911.9	1979.6	2031.8	2084.2	2134.4	2184.5	2197.4	2210.3	2182.2	2154.2	2122.9
62.5°	1812.0	1890.9	1946.7	2002.5	2048.5	2094.4	2106.8	2119.3	2093.9	2068.4	2035.5
65°	1698.7	1783.3	1836.7	1890.1	1930.5	1971.0	1983.8	1996.4	1971.9	1947.5	1915.5
67.5°	1582.3	1660.4	1711.0	1761.5	1796.4	1831.4	1843.9	1856.1	1833.6	1811.3	1781.6
70°	1463.2	1531.8	1575.4	1619.2	1650.7	1682.2	1694.2	1706.2	1687.9	1669.6	1641.1
72.5°	1318.1	1372.0	1411.4	1450.9	1481.8	1512.7	1526.9	1541.2	1526.0	1510.7	1483.6
75°	1146.9	1186.9	1222.7	1258.4	1286.6	1314.8	1329.6	1344.5	1337.0	1329.6	1306.8
77.5°	972.8	1005.3	1036.1	1066.7	1096.3	1125.8	1139.7	1153.6	1143.3	1132.6	1109.7
80°	777.7	804.7	830.6	856.5	878.9	901.3	919.7	938.2	933.7	929.3	898.4
82.5°	562.2	560.0	550.9	541.9	589.8	637.7	669.0	700.4	698.4	696.4	670.3
85°	339.4	327.6	302.5	277.4	322.3	367.2	406.0	444.8	441.6	438.4	418.0
87.5°	162.6	162.1	143.0	123.7	142.5	161.4	177.1	192.8	188.9	184.7	174.4
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: P966640
 CATALOG NUMBER: NAV-SB4C-730-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3
2.5°	3840.8	3827.0	3840.8	3852.0	3863.0	3874.9	3886.9	3902.3	3917.7	3936.7	3955.7
5°	3597.3	3586.1	3597.3	3608.8	3620.4	3635.4	3650.4	3671.7	3692.9	3723.2	3753.4
7.5°	3453.1	3445.3	3453.1	3463.3	3473.6	3490.7	3508.1	3533.4	3558.6	3594.5	3630.6
10°	3414.9	3411.4	3414.9	3423.7	3432.4	3448.7	3465.1	3493.5	3521.7	3564.8	3607.9
12.5°	3477.4	3476.1	3477.4	3484.8	3492.3	3510.3	3528.7	3565.1	3601.4	3656.4	3711.4
15°	3590.1	3589.3	3590.1	3599.8	3609.5	3634.8	3660.2	3715.4	3770.8	3849.1	3927.4
17.5°	3686.7	3684.8	3686.7	3699.1	3711.4	3749.1	3786.7	3868.1	3949.6	4053.4	4157.1
20°	3736.5	3731.6	3736.5	3751.9	3767.2	3815.5	3863.4	3963.3	4063.2	4181.6	4300.2
22.5°	3730.8	3723.5	3730.8	3747.8	3764.8	3815.6	3866.2	3969.2	4072.1	4185.4	4298.5
25°	3668.3	3658.8	3668.3	3684.1	3700.1	3743.9	3787.9	3879.1	3970.7	4063.4	4156.3
27.5°	3561.0	3558.6	3561.0	3568.2	3575.5	3605.1	3634.5	3705.6	3776.6	3842.6	3908.7
30°	3415.4	3417.9	3415.4	3415.4	3415.4	3430.6	3445.6	3496.8	3547.5	3598.1	3648.4
32.5°	3239.1	3241.6	3239.1	3237.7	3236.3	3246.2	3256.1	3296.7	3337.3	3383.7	3430.0
35°	3052.2	3050.7	3052.2	3055.5	3058.7	3073.7	3088.6	3126.0	3163.6	3196.4	3229.4
37.5°	2863.0	2854.9	2863.0	2877.4	2891.8	2919.0	2946.4	2980.9	3015.4	3030.6	3045.8
40°	2683.1	2667.3	2683.1	2709.7	2736.5	2776.0	2815.8	2845.1	2874.3	2870.8	2867.0
42.5°	2506.8	2481.3	2506.8	2545.8	2584.8	2634.1	2683.4	2708.0	2732.9	2714.2	2695.6
45°	2349.0	2319.6	2349.0	2394.7	2440.5	2496.8	2553.3	2575.4	2597.8	2571.1	2544.4
47.5°	2265.4	2237.1	2265.4	2307.6	2349.9	2400.1	2450.3	2465.7	2481.3	2450.6	2419.8
50°	2230.3	2203.0	2230.3	2269.4	2308.5	2348.7	2388.8	2389.4	2390.4	2350.9	2311.5
52.5°	2212.0	2186.9	2212.0	2246.9	2282.1	2314.7	2347.4	2338.9	2330.5	2283.8	2237.1
55°	2190.1	2167.5	2190.1	2220.9	2251.6	2280.1	2308.5	2296.9	2285.2	2235.6	2186.1
57.5°	2148.9	2125.4	2148.9	2179.5	2209.9	2238.7	2267.4	2255.6	2243.8	2194.0	2144.0
60°	2091.5	2067.2	2091.5	2122.9	2154.2	2182.2	2210.3	2197.4	2184.5	2134.4	2084.2
62.5°	2002.5	1973.4	2002.5	2035.5	2068.4	2093.9	2119.3	2106.8	2094.4	2048.5	2002.5
65°	1883.6	1858.5	1883.6	1915.5	1947.5	1971.9	1996.4	1983.8	1971.0	1930.5	1890.1
67.5°	1751.8	1729.2	1751.8	1781.6	1811.3	1833.6	1856.1	1843.9	1831.4	1796.4	1761.5
70°	1612.6	1586.8	1612.6	1641.1	1669.6	1687.9	1706.2	1694.2	1682.2	1650.7	1619.2
72.5°	1456.6	1431.5	1456.6	1483.6	1510.7	1526.0	1541.2	1526.9	1512.7	1481.8	1450.9
75°	1284.0	1260.0	1284.0	1306.8	1329.6	1337.0	1344.5	1329.6	1314.8	1286.6	1258.4
77.5°	1086.7	1067.5	1086.7	1109.7	1132.6	1143.3	1153.6	1139.7	1125.8	1096.3	1066.7
80°	867.4	831.4	867.4	898.4	929.3	933.7	938.2	919.7	901.3	878.9	856.5
82.5°	644.1	621.2	644.1	670.3	696.4	698.4	700.4	669.0	637.7	589.8	541.9
85°	397.6	376.9	397.6	418.0	438.4	441.6	444.8	406.0	367.2	322.3	277.4
87.5°	163.7	153.6	163.7	174.4	184.7	188.9	192.8	177.1	161.4	142.5	123.7
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: P966640
 CATALOG NUMBER: NAV-SB4C-730-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3
2.5°	3980.1	4004.7	4029.1	4053.6	4081.3	4109.3	4140.2	4171.2	4209.6	4244.1	4279.7
5°	3792.9	3832.3	3875.6	3919.0	3968.0	4017.2	4075.8	4134.4	4201.6	4269.4	4341.5
7.5°	3678.6	3726.8	3781.4	3836.0	3900.6	3965.4	4043.2	4121.1	4208.0	4300.7	4401.1
10°	3662.1	3716.2	3775.2	3833.9	3898.6	3963.3	4045.5	4127.6	4221.0	4335.3	4454.3
12.5°	3767.4	3823.6	3869.5	3915.7	3958.4	4001.4	4068.4	4135.7	4222.6	4342.7	4477.2
15°	3976.1	4024.8	4036.8	4048.6	4042.8	4037.1	4069.0	4101.2	4170.8	4303.9	4459.6
17.5°	4196.1	4235.5	4198.1	4160.6	4090.1	4019.5	4008.0	3996.1	4039.0	4195.5	4382.7
20°	4318.5	4336.6	4258.2	4179.7	4057.1	3934.7	3879.6	3824.7	3836.0	4018.3	4250.3
22.5°	4287.8	4276.7	4174.7	4072.6	3932.5	3792.8	3711.4	3630.0	3607.9	3815.5	4094.8
25°	4118.9	4081.3	3980.9	3880.4	3754.6	3628.9	3535.1	3441.3	3381.5	3594.2	3921.2
27.5°	3866.9	3825.1	3744.5	3664.1	3560.8	3457.4	3366.9	3276.3	3203.5	3397.2	3762.6
30°	3614.4	3580.4	3513.4	3446.7	3360.9	3275.2	3203.0	3131.2	3074.1	3236.6	3629.9
32.5°	3392.1	3354.4	3290.2	3226.2	3157.6	3089.1	3046.6	3004.1	2978.6	3109.7	3515.5
35°	3184.1	3138.9	3075.2	3011.9	2959.8	2907.5	2895.7	2884.0	2894.6	3003.8	3403.1
37.5°	2989.8	2933.9	2870.5	2807.3	2769.9	2732.3	2745.3	2758.2	2796.7	2892.1	3270.8
40°	2802.6	2738.2	2677.0	2615.9	2588.8	2561.9	2591.1	2620.4	2679.5	2766.0	3112.9
42.5°	2626.0	2556.6	2498.4	2440.5	2418.4	2396.3	2435.2	2474.0	2548.5	2628.2	2938.8
45°	2472.2	2400.1	2345.1	2290.1	2271.3	2252.8	2290.6	2328.4	2400.4	2481.3	2753.7
47.5°	2348.7	2277.4	2223.7	2169.9	2152.6	2135.2	2166.8	2198.5	2260.5	2364.8	2607.3
50°	2247.7	2184.0	2133.3	2082.6	2055.2	2028.1	2056.0	2084.2	2156.2	2293.3	2510.1
52.5°	2177.5	2118.2	2071.7	2025.2	1984.4	1943.5	1971.1	1999.0	2099.5	2257.3	2446.1
55°	2134.2	2082.1	2032.0	1981.8	1923.9	1865.8	1909.7	1953.6	2105.2	2251.9	2399.6
57.5°	2092.4	2041.0	1982.1	1923.2	1860.8	1798.4	1862.4	1926.5	2110.9	2240.2	2344.6
60°	2031.8	1979.6	1911.9	1844.3	1789.6	1734.8	1817.9	1901.0	2093.0	2178.5	2260.5
62.5°	1946.7	1890.9	1812.0	1733.2	1698.4	1663.7	1767.3	1871.1	2049.4	2059.9	2114.3
65°	1836.7	1783.3	1698.7	1614.3	1601.0	1587.6	1698.1	1808.4	1944.2	1943.0	1968.7
67.5°	1711.0	1660.4	1582.3	1504.3	1508.5	1512.7	1604.6	1696.5	1772.8	1776.3	1762.2
70°	1575.4	1531.8	1463.2	1394.6	1409.2	1423.7	1489.1	1554.4	1579.5	1579.5	1513.0
72.5°	1411.4	1372.0	1318.1	1264.1	1285.2	1306.7	1351.5	1396.3	1395.9	1380.1	1285.8
75°	1222.7	1186.9	1146.9	1106.7	1127.3	1147.6	1182.2	1216.7	1222.8	1149.7	1044.0
77.5°	1036.1	1005.3	972.8	940.1	960.8	981.5	1009.2	1036.8	1040.1	919.5	816.8
80°	830.6	804.7	777.7	750.5	768.0	785.4	808.6	831.7	832.2	688.3	601.4
82.5°	550.9	560.0	562.2	564.5	576.8	589.1	600.4	611.7	605.0	482.1	418.0
85°	302.5	327.6	339.4	351.0	364.8	378.5	390.6	402.7	393.9	302.5	255.5
87.5°	143.0	162.1	162.6	163.1	165.6	168.2	173.1	177.9	166.6	128.6	109.4
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: P966640
 CATALOG NUMBER: NAV-SB4C-730-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3	4215.3
2.5°	4315.2	4352.5	4389.7	4426.6	4463.6	4498.3	4533.2
5°	4413.4	4490.4	4567.6	4644.1	4720.7	4797.6	4874.4
7.5°	4501.6	4615.6	4729.7	4846.8	4963.9	5090.6	5217.4
10°	4573.0	4711.7	4850.2	5004.8	5159.6	5319.9	5480.2
12.5°	4611.6	4775.0	4938.3	5113.6	5289.0	5465.0	5641.1
15°	4615.2	4803.3	4991.3	5181.6	5371.8	5555.4	5739.0
17.5°	4569.9	4788.2	5006.6	5214.1	5421.6	5607.8	5794.0
20°	4482.2	4746.8	5011.4	5239.5	5467.6	5661.2	5854.7
22.5°	4374.1	4696.0	5017.9	5273.8	5529.6	5727.4	5925.0
25°	4248.4	4645.9	5043.4	5335.9	5628.2	5821.8	6015.6
27.5°	4128.0	4612.4	5096.8	5432.9	5768.9	5953.8	6138.5
30°	4023.1	4596.7	5170.0	5558.7	5947.4	6125.7	6304.4
32.5°	3921.2	4577.2	5233.0	5689.8	6146.6	6323.2	6500.0
35°	3802.4	4540.8	5279.3	5839.3	6399.3	6568.6	6737.8
37.5°	3649.5	4478.1	5306.8	6006.7	6706.6	6922.3	7138.2
40°	3459.9	4391.9	5324.1	6219.3	7114.2	7428.7	7743.2
42.5°	3249.2	4303.0	5357.0	6497.3	7637.7	8091.6	8545.4
45°	3026.1	4220.3	5414.7	6863.2	8311.7	8924.0	9536.2
47.5°	2849.8	4152.1	5454.3	7253.0	9051.7	9913.5	10775.2
50°	2726.8	4077.7	5428.4	7614.7	9800.9	11100.1	12399.2
52.5°	2635.0	3952.0	5269.1	7849.6	10429.8	12346.6	14263.4
55°	2547.3	3743.6	4939.9	7797.8	10655.5	13451.7	16248.1
57.5°	2448.9	3449.8	4450.7	7433.5	10416.6	14234.9	18053.2
60°	2342.5	3068.4	3794.4	6755.6	9716.8	14430.7	19144.2
62.5°	2168.8	2612.0	3055.2	5838.9	8622.7	13606.5	18590.2
65°	1994.4	2201.3	2408.1	4903.7	7399.4	12440.4	17481.5
67.5°	1747.7	1806.7	1865.3	3987.6	6109.7	11052.8	15995.7
70°	1446.4	1429.8	1413.0	3139.6	4866.3	9538.5	14210.8
72.5°	1191.4	1140.5	1089.9	2400.2	3710.6	7897.1	12083.7
75°	938.2	892.3	846.3	1742.1	2637.8	6015.4	9393.0
77.5°	714.1	682.8	651.5	1180.5	1709.4	4210.3	6711.1
80°	514.3	501.4	488.5	760.6	1032.8	2712.6	4392.4
82.5°	353.9	351.4	349.0	467.8	586.8	1570.0	2553.3
85°	208.7	209.9	211.0	250.1	289.3	706.2	1123.4
87.5°	90.3	91.4	92.6	103.7	114.8	231.3	347.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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