

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: P966609

Luminaire Tested: **NAV-SB4C-727-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966609
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-727-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28433.5 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

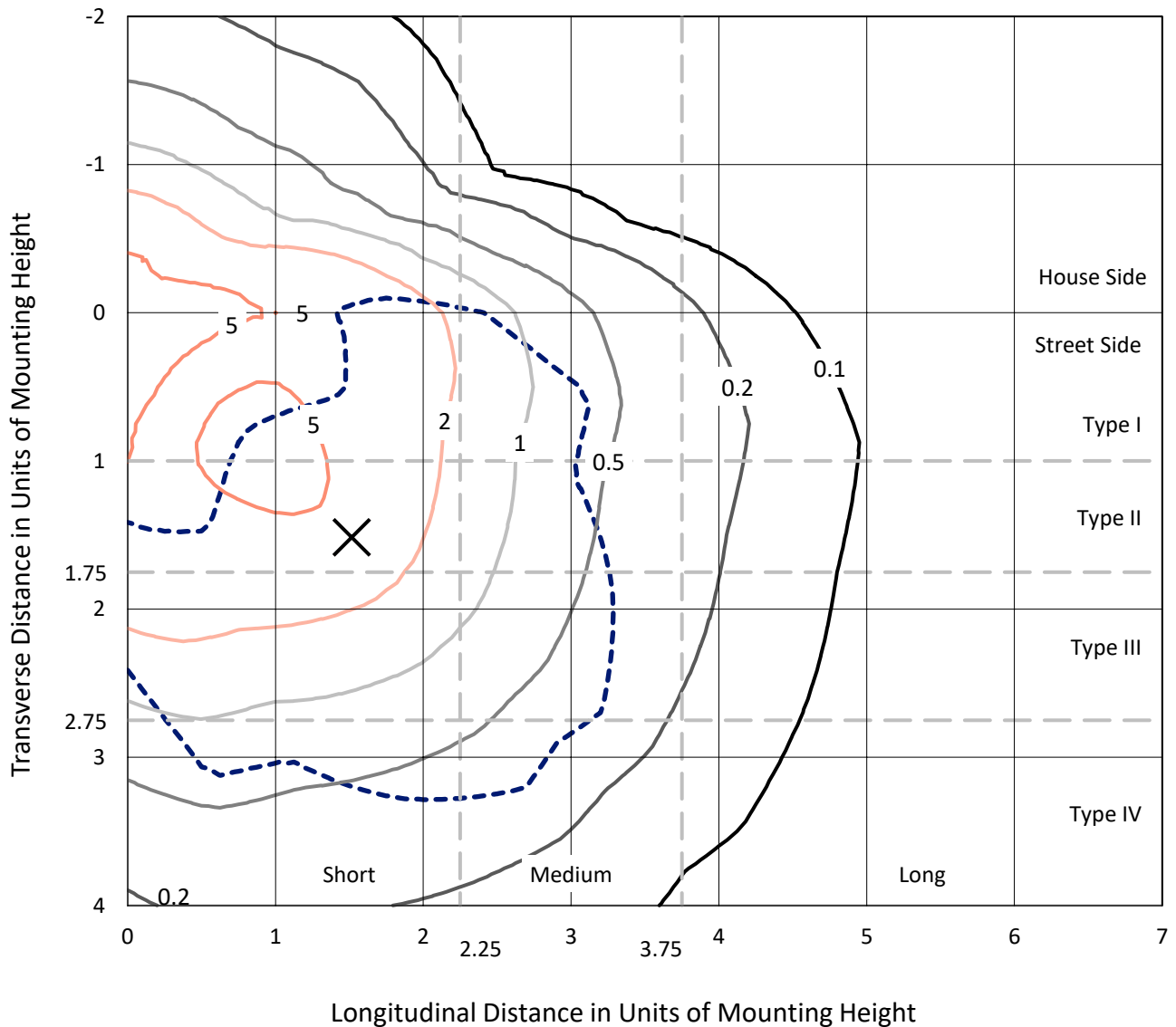
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

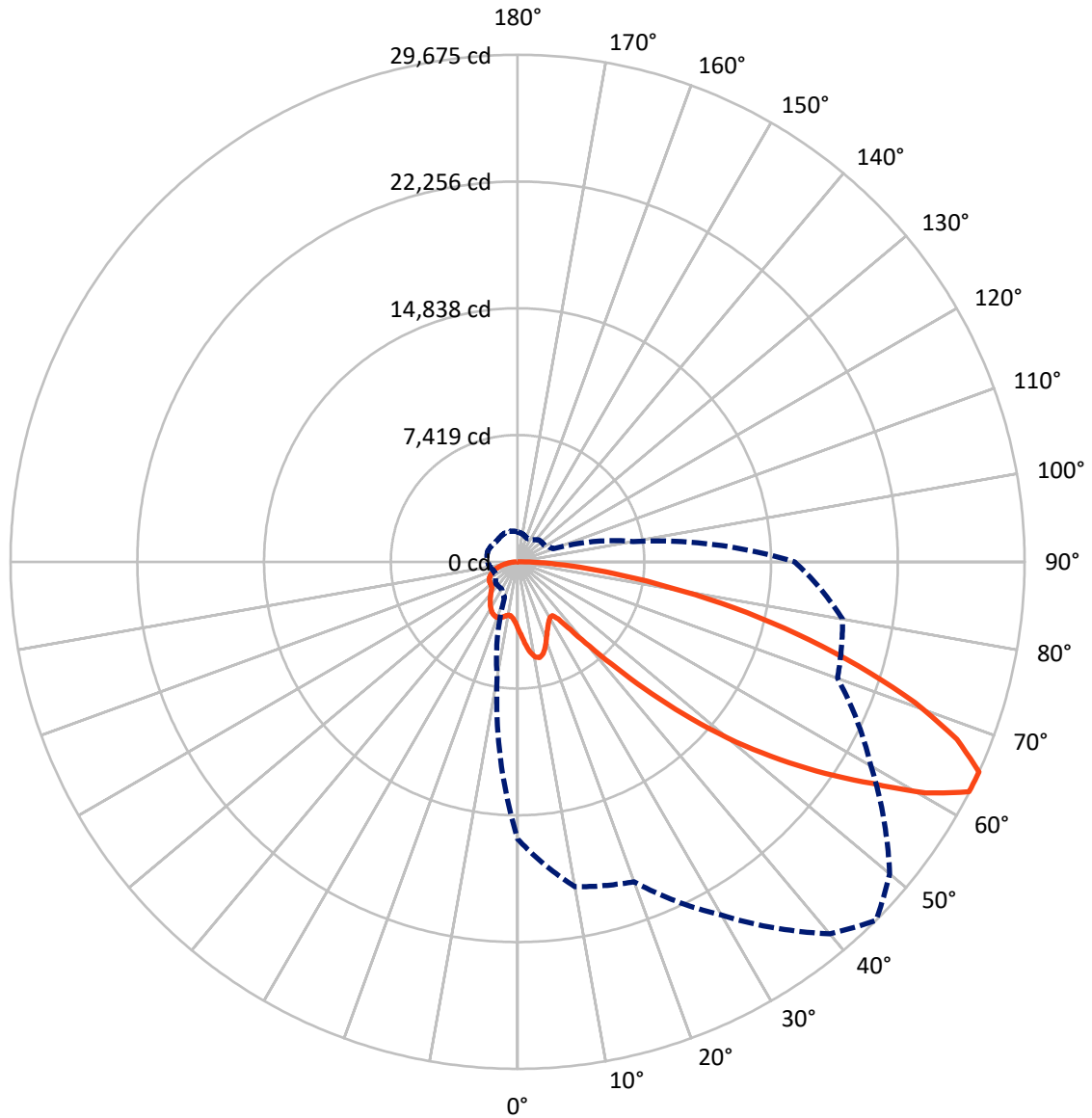
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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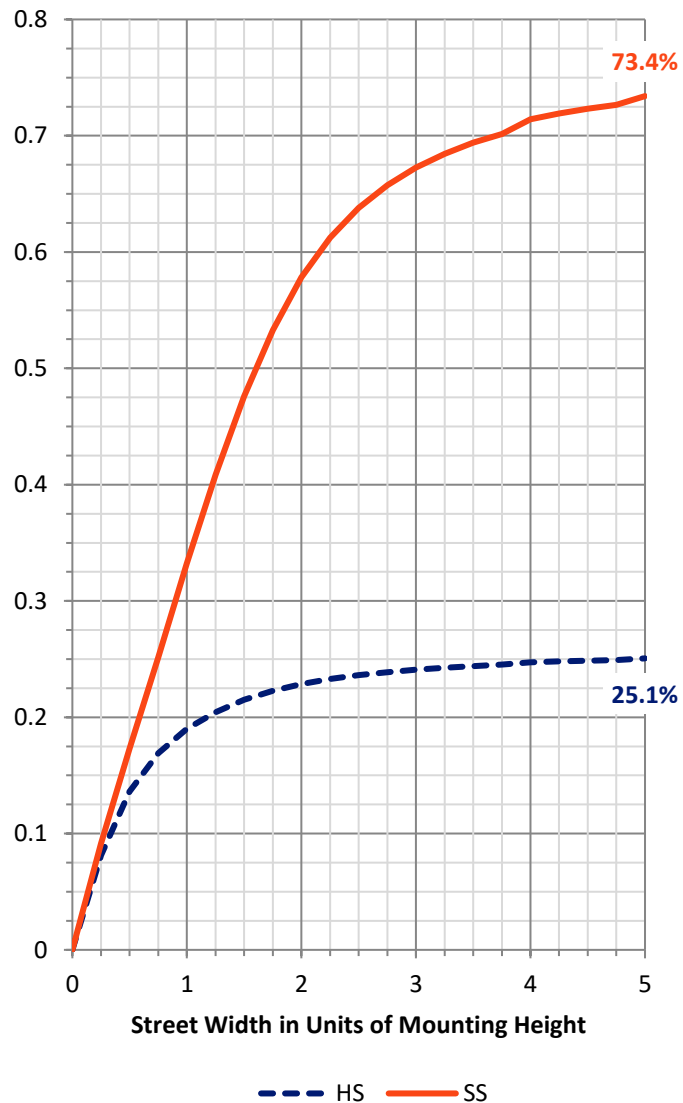
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7226.4	0.0	7226.4
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	21207.1	0.0	21207.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	28433.5	0.0	28433.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	1.4
10°-20°	1217.6	4.3
20°-30°	1880.7	6.6
30°-40°	2383.3	8.4
40°-50°	3594.6	12.6
50°-60°	5807.7	20.4
60°-70°	7240.2	25.5
70°-80°	4747.8	16.7
80°-90°	1173.8	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°	28433.5	100.0
0°-180°	28433.5	100.0

Coefficient of Utilization



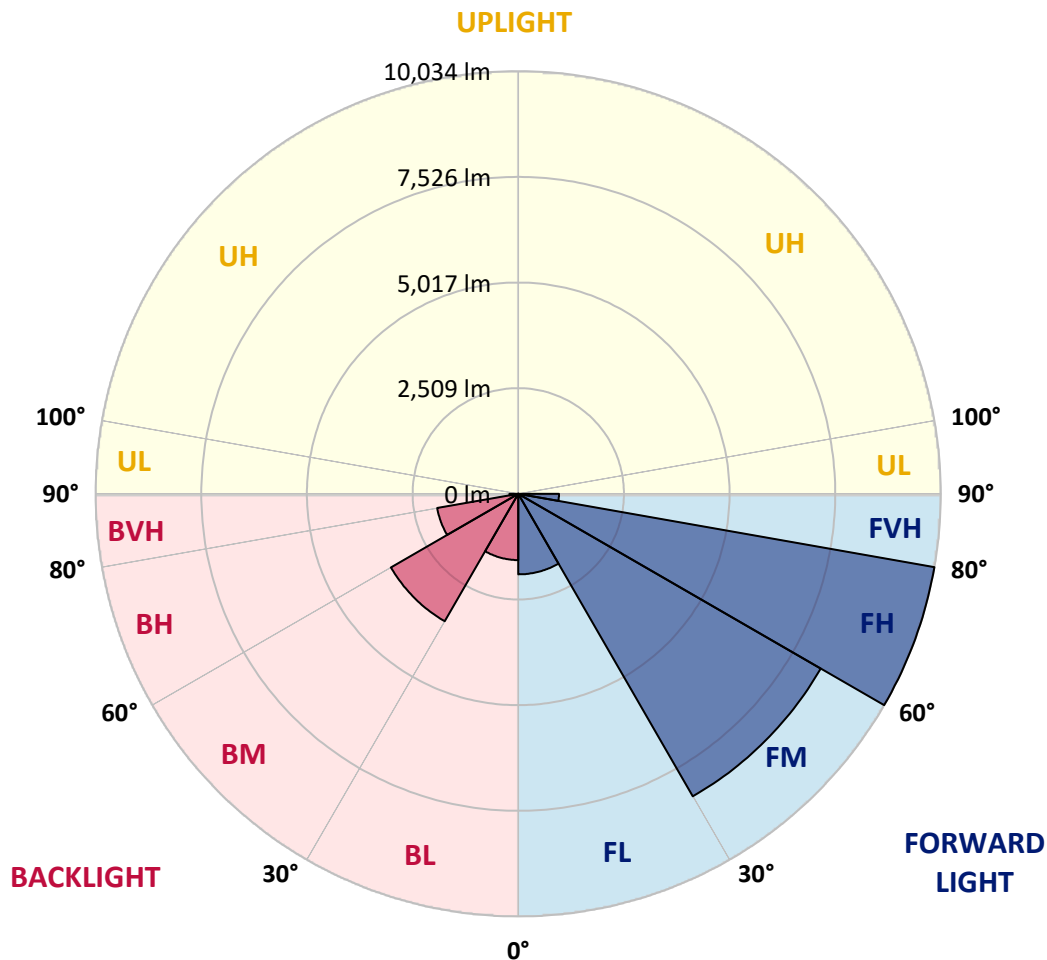
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1912.5	6.7			
FM (30°-60°)	8293.4	29.2			
FH (60°-80°)	10034.3	35.3			G4/12000
FVH (80°-90°)	966.9	3.4			G5
BL (0°-30°)	1573.6	5.5	B3/2500		
BM (30°-60°)	3492.2	12.3	B3/5000		
BH (60°-80°)	1953.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	206.8	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°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	4204.7	4220.5	4236.6	4259.3	4281.9	4295.5	4308.9	4315.7	4322.4	4319.5	4322.4
5°	4521.3	4576.9	4632.7	4687.9	4743.3	4773.3	4803.3	4821.5	4839.7	4853.6	4839.7
7.5°	4839.3	4929.9	5020.3	5101.8	5183.3	5232.4	5281.4	5308.0	5334.4	5347.1	5334.4
10°	5083.1	5190.2	5297.3	5392.9	5488.5	5546.4	5604.0	5629.8	5655.4	5665.3	5655.4
12.5°	5232.4	5348.6	5464.5	5550.9	5637.0	5679.0	5721.0	5735.2	5749.2	5750.8	5749.2
15°	5323.1	5423.4	5523.4	5577.6	5632.0	5633.4	5634.9	5620.0	5604.9	5587.2	5604.9
17.5°	5374.2	5441.8	5509.5	5510.5	5511.4	5450.6	5390.0	5334.3	5278.4	5239.2	5278.4
20°	5430.4	5454.0	5477.7	5406.5	5335.1	5201.1	5066.9	4969.2	4871.5	4811.6	4871.5
22.5°	5495.7	5464.8	5433.8	5286.2	5138.6	4941.3	4744.0	4621.9	4499.8	4433.4	4499.8
25°	5579.7	5482.2	5384.6	5160.6	4936.4	4696.8	4457.2	4328.8	4200.7	4137.9	4200.7
27.5°	5693.8	5519.4	5344.9	5048.0	4751.3	4485.7	4220.1	4093.7	3967.6	3908.3	3967.6
30°	5847.5	5587.5	5327.6	4962.2	4596.7	4320.1	4043.4	3926.2	3809.0	3753.9	3809.0
32.5°	6029.0	5673.1	5317.2	4903.7	4490.2	4230.2	3970.1	3878.2	3786.0	3746.3	3786.0
35°	6249.6	5813.9	5378.4	4947.5	4516.8	4336.1	4155.6	4134.1	4112.7	4109.4	4112.7
37.5°	6621.0	6108.4	5595.9	5204.3	4812.8	4801.0	4789.3	4887.5	4985.6	5036.6	4985.6
40°	7182.1	6624.7	6067.3	5776.1	5484.9	5690.4	5896.0	6134.5	6373.0	6491.9	6373.0
42.5°	7926.2	7373.2	6820.1	6652.5	6484.7	6933.0	7381.3	7815.2	8249.1	8503.8	8249.1
45°	8845.1	8348.4	7851.5	7777.5	7703.4	8421.6	9140.0	9852.9	10566.0	10998.9	10566.0
47.5°	9994.5	9511.2	9027.8	9012.7	8997.8	10033.9	11069.7	12113.4	13157.1	13770.0	13157.1
50°	11500.7	10903.7	10307.0	10309.4	10312.0	11647.4	12982.6	14360.4	15738.2	16571.1	15738.2
52.5°	13229.9	12507.0	11784.3	11711.2	11638.1	13233.1	14828.1	16532.7	18237.2	19235.7	18237.2
55°	15070.8	14356.7	13642.4	13357.6	13072.6	14847.8	16622.8	18655.1	20687.3	21874.7	20687.3
57.5°	16745.1	16356.2	15967.2	15395.7	14824.5	16616.9	18409.3	20711.1	23012.8	24485.3	23012.8
60°	17757.1	18361.1	18965.4	18255.7	17546.1	19242.3	20938.6	23403.0	25867.4	27458.9	25867.4
62.5°	17243.3	18893.7	20544.3	20464.3	20384.2	21938.1	23492.1	25836.9	28181.4	29652.4	28181.4
65°	16214.8	17763.9	19312.9	19619.4	19925.8	21900.6	23875.4	26149.1	28422.5	29675.0	28422.5
67.5°	14836.8	16310.0	17783.3	17927.1	18070.6	20128.2	22185.6	24469.0	26752.3	27733.5	26752.3
70°	13181.1	14783.6	16386.3	16450.4	16514.8	18354.9	20194.7	22159.7	24124.5	24669.9	24124.5
72.5°	11208.2	13047.1	14886.3	14932.4	14978.5	16418.0	17857.7	19329.3	20800.8	20856.1	20800.8
75°	8712.4	10615.7	12519.0	12689.9	12860.8	13980.8	15100.8	16136.8	17172.7	16895.2	17172.7
77.5°	6224.8	8001.6	9778.4	10023.0	10267.5	11118.9	11970.4	12705.1	13439.9	12962.9	13439.9
80°	4074.2	5568.9	7063.6	7367.5	7671.5	8314.5	8957.3	9343.2	9728.9	8961.5	9728.9
82.5°	2368.3	3390.2	4412.1	4751.7	5091.4	5534.0	5976.6	6137.5	6298.4	5695.2	6298.4
85°	1042.0	1584.3	2126.7	2415.5	2704.4	3068.0	3431.6	3522.9	3614.3	3131.2	3614.3
87.5°	322.6	504.8	687.2	848.3	1009.4	1191.3	1373.1	1380.9	1388.6	1165.7	1388.6
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°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	4315.7	4308.9	4295.5	4281.9	4259.3	4236.6	4220.5	4204.7	4172.4	4140.2	4105.8
5°	4821.5	4803.3	4773.3	4743.3	4687.9	4632.7	4576.9	4521.3	4449.9	4378.7	4307.6
7.5°	5308.0	5281.4	5232.4	5183.3	5101.8	5020.3	4929.9	4839.3	4721.7	4604.2	4495.5
10°	5629.8	5604.0	5546.4	5488.5	5392.9	5297.3	5190.2	5083.1	4934.5	4785.7	4642.1
12.5°	5735.2	5721.0	5679.0	5637.0	5550.9	5464.5	5348.6	5232.4	5069.0	4905.8	4743.1
15°	5620.0	5634.9	5633.4	5632.0	5577.6	5523.4	5423.4	5323.1	5152.9	4982.6	4806.1
17.5°	5334.3	5390.0	5450.6	5511.4	5510.5	5509.5	5441.8	5374.2	5201.5	5028.8	4836.3
20°	4969.2	5066.9	5201.1	5335.1	5406.5	5477.7	5454.0	5430.4	5251.0	5071.4	4859.8
22.5°	4621.9	4744.0	4941.3	5138.6	5286.2	5433.8	5464.8	5495.7	5312.4	5128.9	4891.7
25°	4328.8	4457.2	4696.8	4936.4	5160.6	5384.6	5482.2	5579.7	5400.0	5220.4	4949.3
27.5°	4093.7	4220.1	4485.7	4751.3	5048.0	5344.9	5519.4	5693.8	5522.4	5350.9	5039.3
30°	3926.2	4043.4	4320.1	4596.7	4962.2	5327.6	5587.5	5847.5	5681.9	5516.4	5155.9
32.5°	3878.2	3970.1	4230.2	4490.2	4903.7	5317.2	5673.1	6029.0	5865.0	5701.3	5277.5
35°	4134.1	4155.6	4336.1	4516.8	4947.5	5378.4	5813.9	6249.6	6092.7	5935.6	5416.2
37.5°	4887.5	4789.3	4801.0	4812.8	5204.3	5595.9	6108.4	6621.0	6420.8	6220.6	5571.5
40°	6134.5	5896.0	5690.4	5484.9	5776.1	6067.3	6624.7	7182.1	6890.4	6598.7	5768.6
42.5°	7815.2	7381.3	6933.0	6484.7	6652.5	6820.1	7373.2	7926.2	7505.3	7084.3	6026.5
45°	9852.9	9140.0	8421.6	7703.4	7777.5	7851.5	8348.4	8845.1	8277.3	7709.4	6365.9
47.5°	12113.4	11069.7	10033.9	8997.8	9012.7	9027.8	9511.2	9994.5	9195.2	8395.9	6727.5
50°	14360.4	12982.6	11647.4	10312.0	10309.4	10307.0	10903.7	11500.7	10295.8	9090.8	7063.0
52.5°	16532.7	14828.1	13233.1	11638.1	11711.2	11784.3	12507.0	13229.9	11452.0	9674.2	7280.8
55°	18655.1	16622.8	14847.8	13072.6	13357.6	13642.4	14356.7	15070.8	12477.0	9883.4	7232.8
57.5°	20711.1	18409.3	16616.9	14824.5	15395.7	15967.2	16356.2	16745.1	13203.4	9661.8	6894.9
60°	23403.0	20938.6	19242.3	17546.1	18255.7	18965.4	18361.1	17757.1	13385.1	9012.7	6266.1
62.5°	25836.9	23492.1	21938.1	20384.2	20464.3	20544.3	18893.7	17243.3	12620.6	7998.0	5415.9
65°	26149.1	23875.4	21900.6	19925.8	19619.4	19312.9	17763.9	16214.8	11539.0	6863.2	4548.4
67.5°	24469.0	22185.6	20128.2	18070.6	17927.1	17783.3	16310.0	14836.8	10251.8	5667.0	3698.6
70°	22159.7	20194.7	18354.9	16514.8	16450.4	16386.3	14783.6	13181.1	8847.4	4513.7	2912.1
72.5°	19329.3	17857.7	16418.0	14978.5	14932.4	14886.3	13047.1	11208.2	7324.9	3441.7	2226.3
75°	16136.8	15100.8	13980.8	12860.8	12689.9	12519.0	10615.7	8712.4	5579.6	2446.8	1615.8
77.5°	12705.1	11970.4	11118.9	10267.5	10023.0	9778.4	8001.6	6224.8	3905.2	1585.6	1094.9
80°	9343.2	8957.3	8314.5	7671.5	7367.5	7063.6	5568.9	4074.2	2516.1	958.0	705.4
82.5°	6137.5	5976.6	5534.0	5091.4	4751.7	4412.1	3390.2	2368.3	1456.2	544.3	433.9
85°	3522.9	3431.6	3068.0	2704.4	2415.5	2126.7	1584.3	1042.0	655.1	268.2	232.0
87.5°	1380.9	1373.1	1191.3	1009.4	848.3	687.2	504.8	322.6	214.5	106.5	96.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	4071.6	4037.1	4002.5	3969.5	3936.5	3904.6	3869.1	3840.3	3811.6	3785.6	3759.8
5°	4236.6	4165.1	4093.6	4026.9	3960.1	3897.0	3834.8	3780.5	3726.1	3680.5	3635.0
7.5°	4387.0	4281.2	4175.4	4082.3	3989.1	3903.1	3822.5	3750.2	3678.0	3618.0	3558.0
10°	4498.7	4370.3	4241.8	4131.6	4021.2	3915.1	3828.6	3752.3	3676.1	3616.1	3556.0
12.5°	4580.5	4428.9	4277.4	4152.8	4028.0	3916.6	3836.1	3773.6	3711.5	3671.6	3632.0
15°	4629.7	4455.3	4280.7	4136.4	3992.1	3868.6	3804.1	3774.3	3744.5	3750.0	3755.3
17.5°	4643.8	4441.2	4238.7	4065.2	3891.5	3746.3	3706.6	3717.5	3728.3	3793.7	3859.1
20°	4648.3	4402.9	4157.4	3942.3	3727.1	3558.0	3547.5	3598.6	3649.5	3763.1	3876.9
22.5°	4654.3	4355.7	4057.2	3798.0	3539.0	3346.5	3367.0	3442.5	3518.0	3647.6	3777.5
25°	4678.0	4309.2	3940.6	3637.1	3333.7	3136.4	3192.0	3279.0	3366.0	3482.5	3599.3
27.5°	4727.5	4278.1	3828.8	3489.9	3151.0	2971.4	3038.9	3123.0	3206.9	3302.9	3398.5
30°	4795.4	4263.6	3731.6	3366.9	3002.1	2851.3	2904.3	2971.0	3037.9	3117.3	3196.9
32.5°	4853.9	4245.7	3637.1	3260.8	2884.4	2762.9	2786.4	2825.8	2865.3	2928.8	2992.4
35°	4896.7	4211.7	3526.9	3156.5	2786.2	2684.9	2675.0	2685.9	2696.9	2745.3	2793.6
37.5°	4922.3	4153.6	3385.1	3033.8	2682.6	2594.1	2558.4	2546.3	2534.3	2569.2	2603.8
40°	4938.3	4073.7	3209.2	2887.4	2565.6	2485.3	2430.5	2403.4	2376.3	2401.3	2426.3
42.5°	4968.8	3991.1	3013.8	2725.8	2437.8	2363.8	2294.8	2258.8	2222.7	2243.1	2263.7
45°	5022.3	3914.5	2806.9	2554.2	2301.5	2226.5	2159.7	2124.6	2089.7	2106.8	2124.2
47.5°	5059.1	3851.2	2643.3	2418.4	2193.5	2096.7	2039.2	2009.8	1980.4	1996.6	2012.7
50°	5035.1	3782.1	2529.3	2328.2	2127.2	2000.0	1933.2	1907.1	1881.1	1906.3	1931.7
52.5°	4887.3	3665.6	2444.0	2268.8	2093.7	1947.4	1854.1	1828.3	1802.7	1840.6	1878.4
55°	4582.0	3472.4	2362.7	2225.7	2088.7	1952.6	1812.1	1771.3	1730.6	1784.5	1838.2
57.5°	4128.2	3199.9	2271.5	2174.7	2078.0	1958.0	1786.9	1727.4	1668.1	1726.0	1783.9
60°	3519.4	2846.1	2172.8	2096.7	2020.7	1941.5	1763.2	1686.2	1609.1	1660.0	1710.6
62.5°	2833.8	2422.7	2011.7	1961.0	1910.7	1901.0	1735.5	1639.3	1543.0	1575.3	1607.6
65°	2233.7	2041.8	1849.9	1826.0	1802.2	1803.4	1677.4	1575.0	1472.6	1485.0	1497.3
67.5°	1730.2	1675.7	1621.1	1634.5	1647.7	1644.4	1573.6	1488.3	1403.1	1399.2	1395.3
70°	1310.6	1326.1	1341.6	1403.4	1465.0	1465.0	1441.8	1381.2	1320.6	1307.1	1293.6
72.5°	1011.0	1057.9	1104.9	1192.6	1280.1	1294.8	1295.1	1253.5	1212.0	1192.2	1172.5
75°	784.9	827.6	870.2	968.3	1066.4	1134.3	1128.5	1096.5	1064.5	1045.6	1026.5
77.5°	604.3	633.2	662.4	757.7	852.9	964.7	961.8	936.0	910.4	891.2	872.0
80°	453.0	465.1	477.1	557.8	638.4	771.9	771.5	750.0	728.4	712.4	696.2
82.5°	323.8	325.8	328.3	387.7	447.1	561.1	567.4	556.9	546.4	535.0	523.6
85°	195.8	194.7	193.5	237.1	280.5	365.3	373.6	362.3	351.1	338.4	325.5
87.5°	85.8	84.8	83.7	101.4	119.3	154.6	165.0	160.5	156.0	153.6	151.2
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: P966609
 CATALOG NUMBER: NAV-SB4C-727-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3737.2	3714.5	3691.7	3669.1	3651.5	3633.8	3619.6	3605.3	3594.2	3583.1	3572.8
5°	3594.8	3554.6	3518.1	3481.5	3453.4	3425.2	3405.6	3386.0	3371.9	3358.0	3347.3
7.5°	3507.4	3456.7	3412.0	3367.4	3334.0	3300.7	3277.3	3253.9	3237.9	3222.0	3212.4
10°	3501.6	3447.0	3396.7	3346.5	3306.5	3266.5	3240.4	3214.0	3198.8	3183.6	3175.6
12.5°	3589.0	3546.5	3494.4	3442.5	3391.5	3340.5	3306.8	3272.9	3256.0	3239.2	3232.3
15°	3744.2	3733.2	3688.0	3642.7	3570.2	3497.6	3446.3	3394.9	3371.4	3348.0	3338.9
17.5°	3894.0	3928.6	3892.1	3855.8	3759.7	3663.5	3587.9	3512.3	3477.4	3442.5	3431.1
20°	3949.6	4022.4	4005.6	3988.6	3878.6	3768.8	3676.1	3583.5	3539.0	3494.2	3480.0
22.5°	3872.1	3966.9	3977.1	3987.1	3882.1	3777.0	3681.7	3586.1	3539.1	3492.0	3476.3
25°	3692.5	3785.6	3820.5	3855.1	3768.9	3683.0	3598.1	3513.5	3472.7	3432.0	3417.1
27.5°	3473.2	3547.9	3586.7	3625.5	3564.1	3502.9	3437.1	3371.2	3344.0	3316.5	3309.7
30°	3258.9	3321.0	3352.5	3384.0	3337.3	3290.6	3243.4	3196.0	3182.0	3168.0	3168.0
32.5°	3051.8	3111.4	3146.3	3181.4	3138.5	3095.5	3057.8	3020.2	3011.0	3001.8	3003.0
35°	2852.4	2911.4	2953.4	2995.4	2964.8	2934.4	2899.5	2864.9	2850.9	2837.1	2834.1
37.5°	2662.4	2721.3	2773.2	2825.1	2811.1	2796.9	2764.9	2732.9	2707.5	2682.3	2668.9
40°	2483.1	2539.7	2599.5	2659.4	2662.7	2666.1	2639.0	2611.8	2574.9	2538.2	2513.3
42.5°	2317.4	2371.2	2435.8	2500.3	2517.5	2534.8	2511.9	2489.0	2443.3	2397.5	2361.4
45°	2175.2	2226.2	2293.1	2360.1	2384.8	2409.6	2388.9	2368.3	2315.9	2263.7	2221.3
47.5°	2062.6	2112.4	2178.4	2244.4	2273.0	2301.5	2287.1	2272.7	2226.2	2179.7	2140.4
50°	1978.8	2025.7	2084.8	2144.0	2180.6	2217.2	2216.3	2215.6	2178.4	2141.2	2104.9
52.5°	1921.6	1964.7	2019.8	2074.9	2118.3	2161.6	2169.5	2177.3	2147.0	2116.6	2084.1
55°	1884.7	1931.2	1979.5	2027.7	2073.6	2119.7	2130.5	2141.2	2114.9	2088.4	2059.9
57.5°	1838.5	1893.1	1940.8	1988.7	2035.0	2081.3	2092.2	2103.2	2076.4	2049.8	2021.5
60°	1773.4	1836.1	1884.6	1933.2	1979.7	2026.2	2038.2	2050.2	2024.1	1998.1	1969.0
62.5°	1680.7	1753.9	1805.6	1857.4	1900.0	1942.6	1954.2	1965.7	1942.2	1918.6	1888.0
65°	1575.6	1654.1	1703.7	1753.2	1790.7	1828.2	1840.0	1851.7	1829.0	1806.4	1776.7
67.5°	1467.6	1540.1	1587.0	1633.8	1666.2	1698.6	1710.2	1721.6	1700.8	1680.1	1652.5
70°	1357.2	1420.9	1461.3	1501.8	1531.0	1560.4	1571.4	1582.5	1565.6	1548.7	1522.2
72.5°	1222.6	1272.5	1309.2	1345.8	1374.4	1403.1	1416.3	1429.5	1415.4	1401.3	1376.1
75°	1063.7	1101.0	1134.1	1167.3	1193.4	1219.4	1233.3	1247.1	1240.1	1233.3	1212.2
77.5°	902.3	932.4	960.9	989.4	1016.9	1044.3	1057.1	1070.0	1060.5	1050.5	1029.2
80°	721.4	746.4	770.4	794.4	815.3	836.0	853.1	870.2	866.0	861.9	833.3
82.5°	521.5	519.4	511.0	502.7	547.0	591.4	620.5	649.6	647.8	645.9	621.8
85°	314.8	303.8	280.5	257.3	298.9	340.6	376.6	412.6	409.6	406.6	387.7
87.5°	150.8	150.4	132.6	114.8	132.2	149.8	164.3	178.9	175.3	171.4	161.7
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: P966609
 CATALOG NUMBER: NAV-SB4C-727-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3562.5	3549.8	3562.5	3572.8	3583.1	3594.2	3605.3	3619.6	3633.8	3651.5	3669.1
5°	3336.7	3326.2	3336.7	3347.3	3358.0	3371.9	3386.0	3405.6	3425.2	3453.4	3481.5
7.5°	3202.9	3195.7	3202.9	3212.4	3222.0	3237.9	3253.9	3277.3	3300.7	3334.0	3367.4
10°	3167.5	3164.2	3167.5	3175.6	3183.6	3198.8	3214.0	3240.4	3266.5	3306.5	3346.5
12.5°	3225.4	3224.2	3225.4	3232.3	3239.2	3256.0	3272.9	3306.8	3340.5	3391.5	3442.5
15°	3330.0	3329.2	3330.0	3338.9	3348.0	3371.4	3394.9	3446.3	3497.6	3570.2	3642.7
17.5°	3419.5	3417.8	3419.5	3431.1	3442.5	3477.4	3512.3	3587.9	3663.5	3759.7	3855.8
20°	3465.7	3461.2	3465.7	3480.0	3494.2	3539.0	3583.5	3676.1	3768.8	3878.6	3988.6
22.5°	3460.5	3453.7	3460.5	3476.3	3492.0	3539.1	3586.1	3681.7	3777.0	3882.1	3987.1
25°	3402.5	3393.8	3402.5	3417.1	3432.0	3472.7	3513.5	3598.1	3683.0	3768.9	3855.1
27.5°	3303.0	3300.7	3303.0	3309.7	3316.5	3344.0	3371.2	3437.1	3502.9	3564.1	3625.5
30°	3168.0	3170.2	3168.0	3168.0	3168.0	3182.0	3196.0	3243.4	3290.6	3337.3	3384.0
32.5°	3004.4	3006.6	3004.4	3003.0	3001.8	3011.0	3020.2	3057.8	3095.5	3138.5	3181.4
35°	2831.2	2829.6	2831.2	2834.1	2837.1	2850.9	2864.9	2899.5	2934.4	2964.8	2995.4
37.5°	2655.6	2648.1	2655.6	2668.9	2682.3	2707.5	2732.9	2764.9	2796.9	2811.1	2825.1
40°	2488.7	2474.0	2488.7	2513.3	2538.2	2574.9	2611.8	2639.0	2666.1	2662.7	2659.4
42.5°	2325.2	2301.5	2325.2	2361.4	2397.5	2443.3	2489.0	2511.9	2534.8	2517.5	2500.3
45°	2178.7	2151.5	2178.7	2221.3	2263.7	2315.9	2368.3	2388.9	2409.6	2384.8	2360.1
47.5°	2101.2	2074.9	2101.2	2140.4	2179.7	2226.2	2272.7	2287.1	2301.5	2273.0	2244.4
50°	2068.7	2043.4	2068.7	2104.9	2141.2	2178.4	2215.6	2216.3	2217.2	2180.6	2144.0
52.5°	2051.7	2028.5	2051.7	2084.1	2116.6	2147.0	2177.3	2169.5	2161.6	2118.3	2074.9
55°	2031.4	2010.4	2031.4	2059.9	2088.4	2114.9	2141.2	2130.5	2119.7	2073.6	2027.7
57.5°	1993.2	1971.4	1993.2	2021.5	2049.8	2076.4	2103.2	2092.2	2081.3	2035.0	1988.7
60°	1939.9	1917.5	1939.9	1969.0	1998.1	2024.1	2050.2	2038.2	2026.2	1979.7	1933.2
62.5°	1857.4	1830.4	1857.4	1888.0	1918.6	1942.2	1965.7	1954.2	1942.6	1900.0	1857.4
65°	1747.1	1723.8	1747.1	1776.7	1806.4	1829.0	1851.7	1840.0	1828.2	1790.7	1753.2
67.5°	1624.8	1603.8	1624.8	1652.5	1680.1	1700.8	1721.6	1710.2	1698.6	1666.2	1633.8
70°	1495.8	1471.8	1495.8	1522.2	1548.7	1565.6	1582.5	1571.4	1560.4	1531.0	1501.8
72.5°	1351.1	1327.8	1351.1	1376.1	1401.3	1415.4	1429.5	1416.3	1403.1	1374.4	1345.8
75°	1190.9	1168.7	1190.9	1212.2	1233.3	1240.1	1247.1	1233.3	1219.4	1193.4	1167.3
77.5°	1007.9	990.3	1007.9	1029.2	1050.5	1060.5	1070.0	1057.1	1044.3	1016.9	989.4
80°	804.5	771.2	804.5	833.3	861.9	866.0	870.2	853.1	836.0	815.3	794.4
82.5°	597.5	576.2	597.5	621.8	645.9	647.8	649.6	620.5	591.4	547.0	502.7
85°	368.8	349.5	368.8	387.7	406.6	409.6	412.6	376.6	340.6	298.9	257.3
87.5°	151.8	142.6	151.8	161.7	171.4	175.3	178.9	164.3	149.8	132.2	114.8
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: P966609
 CATALOG NUMBER: NAV-SB4C-727-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3691.7	3714.5	3737.2	3759.8	3785.6	3811.6	3840.3	3869.1	3904.6	3936.5	3969.5
5°	3518.1	3554.6	3594.8	3635.0	3680.5	3726.1	3780.5	3834.8	3897.0	3960.1	4026.9
7.5°	3412.0	3456.7	3507.4	3558.0	3618.0	3678.0	3750.2	3822.5	3903.1	3989.1	4082.3
10°	3396.7	3447.0	3501.6	3556.0	3616.1	3676.1	3752.3	3828.6	3915.1	4021.2	4131.6
12.5°	3494.4	3546.5	3589.0	3632.0	3671.6	3711.5	3773.6	3836.1	3916.6	4028.0	4152.8
15°	3688.0	3733.2	3744.2	3755.3	3750.0	3744.5	3774.3	3804.1	3868.6	3992.1	4136.4
17.5°	3892.1	3928.6	3894.0	3859.1	3793.7	3728.3	3717.5	3706.6	3746.3	3891.5	4065.2
20°	4005.6	4022.4	3949.6	3876.9	3763.1	3649.5	3598.6	3547.5	3558.0	3727.1	3942.3
22.5°	3977.1	3966.9	3872.1	3777.5	3647.6	3518.0	3442.5	3367.0	3346.5	3539.0	3798.0
25°	3820.5	3785.6	3692.5	3599.3	3482.5	3366.0	3279.0	3192.0	3136.4	3333.7	3637.1
27.5°	3586.7	3547.9	3473.2	3398.5	3302.9	3206.9	3123.0	3038.9	2971.4	3151.0	3489.9
30°	3352.5	3321.0	3258.9	3196.9	3117.3	3037.9	2971.0	2904.3	2851.3	3002.1	3366.9
32.5°	3146.3	3111.4	3051.8	2992.4	2928.8	2865.3	2825.8	2786.4	2762.9	2884.4	3260.8
35°	2953.4	2911.4	2852.4	2793.6	2745.3	2696.9	2685.9	2675.0	2684.9	2786.2	3156.5
37.5°	2773.2	2721.3	2662.4	2603.8	2569.2	2534.3	2546.3	2558.4	2594.1	2682.6	3033.8
40°	2599.5	2539.7	2483.1	2426.3	2401.3	2376.3	2403.4	2430.5	2485.3	2565.6	2887.4
42.5°	2435.8	2371.2	2317.4	2263.7	2243.1	2222.7	2258.8	2294.8	2363.8	2437.8	2725.8
45°	2293.1	2226.2	2175.2	2124.2	2106.8	2089.7	2124.6	2159.7	2226.5	2301.5	2554.2
47.5°	2178.4	2112.4	2062.6	2012.7	1996.6	1980.4	2009.8	2039.2	2096.7	2193.5	2418.4
50°	2084.8	2025.7	1978.8	1931.7	1906.3	1881.1	1907.1	1933.2	2000.0	2127.2	2328.2
52.5°	2019.8	1964.7	1921.6	1878.4	1840.6	1802.7	1828.3	1854.1	1947.4	2093.7	2268.8
55°	1979.5	1931.2	1884.7	1838.2	1784.5	1730.6	1771.3	1812.1	1952.6	2088.7	2225.7
57.5°	1940.8	1893.1	1838.5	1783.9	1726.0	1668.1	1727.4	1786.9	1958.0	2078.0	2174.7
60°	1884.6	1836.1	1773.4	1710.6	1660.0	1609.1	1686.2	1763.2	1941.5	2020.7	2096.7
62.5°	1805.6	1753.9	1680.7	1607.6	1575.3	1543.0	1639.3	1735.5	1901.0	1910.7	1961.0
65°	1703.7	1654.1	1575.6	1497.3	1485.0	1472.6	1575.0	1677.4	1803.4	1802.2	1826.0
67.5°	1587.0	1540.1	1467.6	1395.3	1399.2	1403.1	1488.3	1573.6	1644.4	1647.7	1634.5
70°	1461.3	1420.9	1357.2	1293.6	1307.1	1320.6	1381.2	1441.8	1465.0	1465.0	1403.4
72.5°	1309.2	1272.5	1222.6	1172.5	1192.2	1212.0	1253.5	1295.1	1294.8	1280.1	1192.6
75°	1134.1	1101.0	1063.7	1026.5	1045.6	1064.5	1096.5	1128.5	1134.3	1066.4	968.3
77.5°	960.9	932.4	902.3	872.0	891.2	910.4	936.0	961.8	964.7	852.9	757.7
80°	770.4	746.4	721.4	696.2	712.4	728.4	750.0	771.5	771.9	638.4	557.8
82.5°	511.0	519.4	521.5	523.6	535.0	546.4	556.9	567.4	561.1	447.1	387.7
85°	280.5	303.8	314.8	325.5	338.4	351.1	362.3	373.6	365.3	280.5	237.1
87.5°	132.6	150.4	150.8	151.2	153.6	156.0	160.5	165.0	154.6	119.3	101.4
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: P966609
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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	4002.5	4037.1	4071.6	4105.8	4140.2	4172.4	4204.7
5°	4093.6	4165.1	4236.6	4307.6	4378.7	4449.9	4521.3
7.5°	4175.4	4281.2	4387.0	4495.5	4604.2	4721.7	4839.3
10°	4241.8	4370.3	4498.7	4642.1	4785.7	4934.5	5083.1
12.5°	4277.4	4428.9	4580.5	4743.1	4905.8	5069.0	5232.4
15°	4280.7	4455.3	4629.7	4806.1	4982.6	5152.9	5323.1
17.5°	4238.7	4441.2	4643.8	4836.3	5028.8	5201.5	5374.2
20°	4157.4	4402.9	4648.3	4859.8	5071.4	5251.0	5430.4
22.5°	4057.2	4355.7	4654.3	4891.7	5128.9	5312.4	5495.7
25°	3940.6	4309.2	4678.0	4949.3	5220.4	5400.0	5579.7
27.5°	3828.8	4278.1	4727.5	5039.3	5350.9	5522.4	5693.8
30°	3731.6	4263.6	4795.4	5155.9	5516.4	5681.9	5847.5
32.5°	3637.1	4245.7	4853.9	5277.5	5701.3	5865.0	6029.0
35°	3526.9	4211.7	4896.7	5416.2	5935.6	6092.7	6249.6
37.5°	3385.1	4153.6	4922.3	5571.5	6220.6	6420.8	6621.0
40°	3209.2	4073.7	4938.3	5768.6	6598.7	6890.4	7182.1
42.5°	3013.8	3991.1	4968.8	6026.5	7084.3	7505.3	7926.2
45°	2806.9	3914.5	5022.3	6365.9	7709.4	8277.3	8845.1
47.5°	2643.3	3851.2	5059.1	6727.5	8395.9	9195.2	9994.5
50°	2529.3	3782.1	5035.1	7063.0	9090.8	10295.8	11500.7
52.5°	2444.0	3665.6	4887.3	7280.8	9674.2	11452.0	13229.9
55°	2362.7	3472.4	4582.0	7232.8	9883.4	12477.0	15070.8
57.5°	2271.5	3199.9	4128.2	6894.9	9661.8	13203.4	16745.1
60°	2172.8	2846.1	3519.4	6266.1	9012.7	13385.1	17757.1
62.5°	2011.7	2422.7	2833.8	5415.9	7998.0	12620.6	17243.3
65°	1849.9	2041.8	2233.7	4548.4	6863.2	11539.0	16214.8
67.5°	1621.1	1675.7	1730.2	3698.6	5667.0	10251.8	14836.8
70°	1341.6	1326.1	1310.6	2912.1	4513.7	8847.4	13181.1
72.5°	1104.9	1057.9	1011.0	2226.3	3441.7	7324.9	11208.2
75°	870.2	827.6	784.9	1615.8	2446.8	5579.6	8712.4
77.5°	662.4	633.2	604.3	1094.9	1585.6	3905.2	6224.8
80°	477.1	465.1	453.0	705.4	958.0	2516.1	4074.2
82.5°	328.3	325.8	323.8	433.9	544.3	1456.2	2368.3
85°	193.5	194.7	195.8	232.0	268.2	655.1	1042.0
87.5°	83.7	84.8	85.8	96.1	106.5	214.5	322.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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