

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: P965028

Luminaire Tested: **NAV-SB3D-727-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965028
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-SB3D-727-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28923.5 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

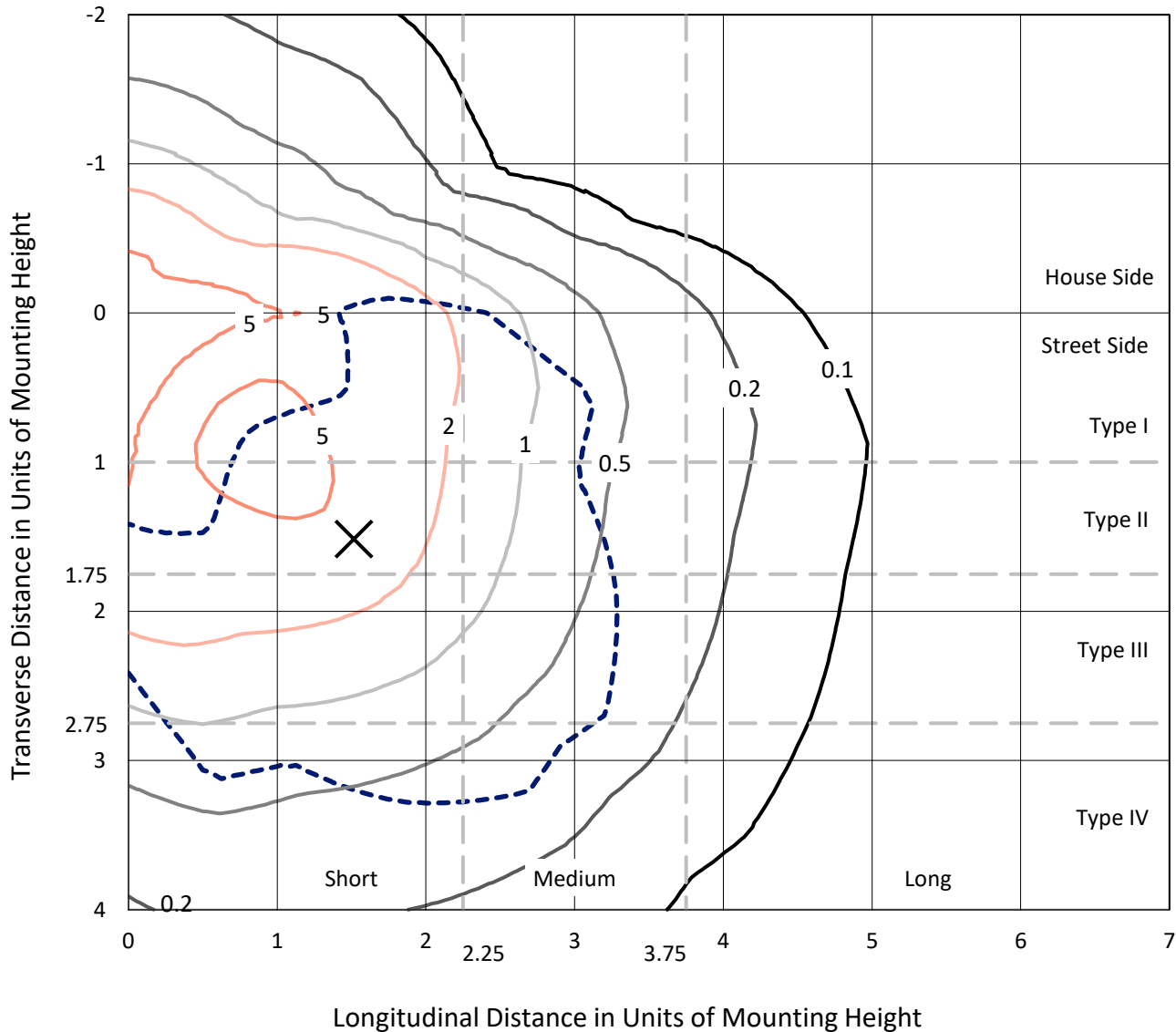
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

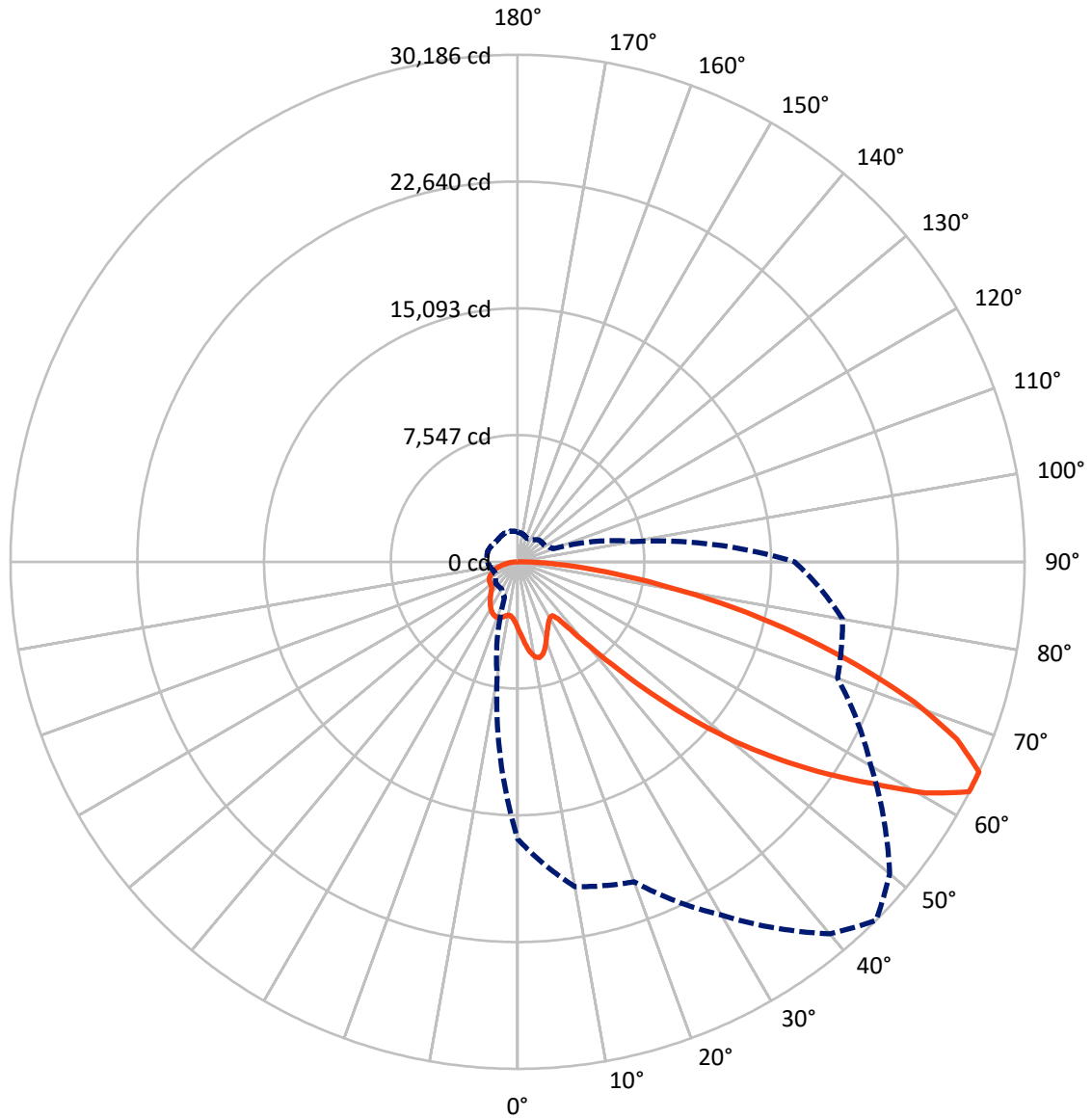
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7350.9	0.0	7350.9
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	21572.6	0.0	21572.6
	% Fixture	74.6	0.0	74.6
Total	Lumens	28923.5	0.0	28923.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.5	1.4
10°-20°	1238.5	4.3
20°-30°	1913.1	6.6
30°-40°	2424.4	8.4
40°-50°	3656.6	12.6
50°-60°	5907.8	20.4
60°-70°	7365.0	25.5
70°-80°	4829.6	16.7
80°-90°	1194.0	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°	28923.5	100.0
0°-180°	28923.5	100.0

Coefficient of Utilization

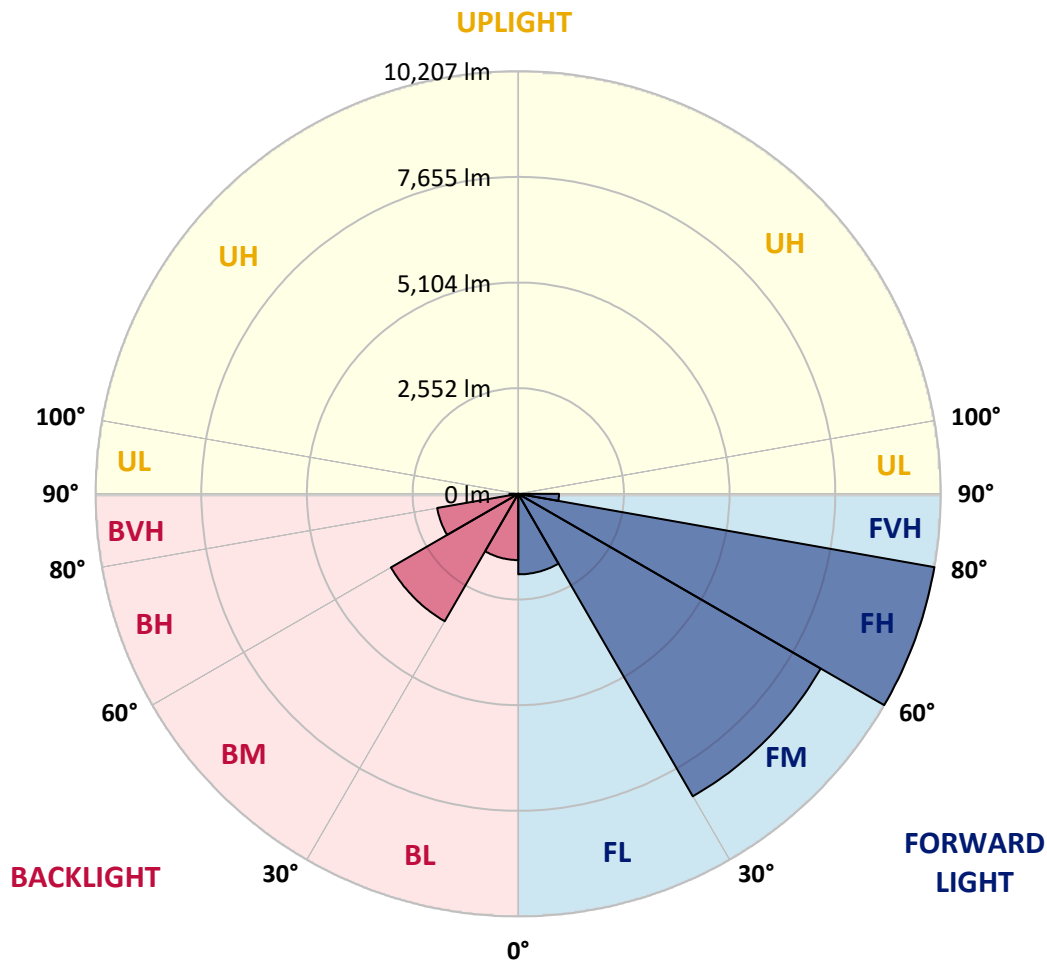


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1945.4	6.7			
FM (30°-60°)	8436.3	29.2			
FH (60°-80°)	10207.2	35.3			G4/12000
FVH (80°-90°)	983.6	3.4			G5
BL (0°-30°)	1600.7	5.5	B3/2500		
BM (30°-60°)	3552.4	12.3	B3/5000		
BH (60°-80°)	1987.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	210.4	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°	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2
2.5°	4277.1	4293.3	4309.6	4332.7	4355.7	4369.5	4383.2	4390.1	4396.9	4393.9	4396.9
5°	4599.2	4655.8	4712.5	4768.7	4825.0	4855.5	4886.1	4904.5	4923.2	4937.2	4923.2
7.5°	4922.7	5014.9	5106.9	5189.8	5272.6	5322.5	5372.4	5399.5	5426.3	5439.3	5426.3
10°	5170.7	5279.7	5388.6	5485.9	5583.1	5642.0	5700.5	5726.9	5752.9	5762.9	5752.9
12.5°	5322.5	5440.7	5558.7	5646.5	5734.2	5776.9	5819.6	5834.0	5848.3	5849.9	5848.3
15°	5414.9	5516.9	5618.6	5673.7	5728.9	5730.5	5732.0	5716.7	5701.5	5683.5	5701.5
17.5°	5466.7	5535.6	5604.4	5605.5	5606.4	5544.6	5482.8	5426.1	5369.4	5329.4	5369.4
20°	5524.0	5548.0	5572.1	5499.6	5427.1	5290.6	5154.2	5054.9	4955.5	4894.5	4955.5
22.5°	5590.3	5559.0	5527.5	5377.4	5227.2	5026.5	4825.8	4701.6	4577.3	4509.9	4577.3
25°	5675.8	5576.6	5477.5	5249.4	5021.5	4777.7	4534.0	4403.3	4273.0	4209.2	4273.0
27.5°	5791.9	5614.5	5437.0	5134.9	4833.1	4563.0	4292.8	4164.4	4035.9	3975.7	4035.9
30°	5948.3	5683.8	5419.5	5047.7	4675.9	4394.5	4113.0	3993.8	3874.7	3818.5	3874.7
32.5°	6133.0	5770.7	5408.8	4988.2	4567.5	4303.1	4038.6	3945.0	3851.3	3810.8	3851.3
35°	6357.3	5914.1	5471.0	5032.8	4594.6	4410.8	4227.2	4205.4	4183.5	4180.2	4183.5
37.5°	6735.1	6213.7	5692.3	5294.0	4895.7	4883.8	4871.8	4971.7	5071.5	5123.4	5071.5
40°	7305.8	6738.9	6171.8	5875.6	5579.4	5788.5	5997.6	6240.2	6482.9	6603.8	6482.9
42.5°	8062.9	7500.2	6937.7	6767.0	6596.5	7052.5	7508.5	7949.9	8391.3	8650.4	8391.3
45°	8997.6	8492.2	7986.8	7911.6	7836.1	8566.7	9297.5	10022.8	10748.2	11188.4	10748.2
47.5°	10166.7	9675.1	9183.3	9168.1	9152.8	10206.7	11260.4	12322.2	13383.8	14007.2	13383.8
50°	11698.9	11091.6	10484.5	10487.2	10489.7	11848.1	13206.3	14607.8	16009.3	16856.6	16009.3
52.5°	13457.8	12722.5	11987.4	11913.1	11838.5	13461.0	15083.5	16817.6	18551.5	19567.1	18551.5
55°	15330.5	14604.0	13877.6	13587.7	13297.9	15103.7	16909.3	18976.5	21043.8	22251.7	21043.8
57.5°	17033.7	16638.1	16242.4	15661.1	15079.9	16903.2	18726.5	21068.0	23409.3	24907.3	23409.3
60°	18063.1	18677.6	19292.1	18570.2	17848.3	19573.8	21299.4	23806.2	26313.2	27932.2	26313.2
62.5°	17540.4	19219.4	20898.3	20816.9	20735.4	22316.1	23897.0	26282.0	28667.0	30163.4	28667.0
65°	16494.2	18069.9	19645.8	19957.6	20269.2	22278.0	24286.9	26599.7	28912.3	30186.4	28912.3
67.5°	15092.4	16591.1	18089.8	18236.0	18382.0	20475.1	22567.9	24890.6	27213.3	28211.4	27213.3
70°	13408.2	15038.4	16668.7	16733.9	16799.4	18671.1	20542.6	22541.5	24540.2	25095.0	24540.2
72.5°	11401.3	13272.0	15142.7	15189.8	15236.6	16700.9	18165.4	19662.4	21159.3	21215.4	21159.3
75°	8862.6	10798.7	12734.7	12908.5	13082.4	14221.7	15361.0	16414.9	17468.7	17186.3	17468.7
77.5°	6332.1	8139.4	9946.9	10195.7	10444.4	11310.5	12176.6	12924.0	13671.6	13186.2	13671.6
80°	4144.4	5664.9	7185.2	7494.5	7803.6	8457.8	9111.6	9504.1	9896.5	9115.8	9896.5
82.5°	2409.1	3448.5	4488.2	4833.6	5179.1	5629.3	6079.6	6243.3	6406.9	5793.4	6406.9
85°	1060.0	1611.6	2163.4	2457.1	2750.9	3120.9	3490.6	3583.6	3676.6	3185.2	3676.6
87.5°	328.1	513.5	698.9	862.9	1026.8	1211.8	1396.8	1404.7	1412.4	1185.8	1412.4
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°	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2
2.5°	4390.1	4383.2	4369.5	4355.7	4332.7	4309.6	4293.3	4277.1	4244.3	4211.5	4176.6
5°	4904.5	4886.1	4855.5	4825.0	4768.7	4712.5	4655.8	4599.2	4526.6	4454.1	4381.8
7.5°	5399.5	5372.4	5322.5	5272.6	5189.8	5106.9	5014.9	4922.7	4803.0	4683.5	4573.0
10°	5726.9	5700.5	5642.0	5583.1	5485.9	5388.6	5279.7	5170.7	5019.4	4868.2	4722.2
12.5°	5834.0	5819.6	5776.9	5734.2	5646.5	5558.7	5440.7	5322.5	5156.4	4990.3	4824.9
15°	5716.7	5732.0	5730.5	5728.9	5673.7	5618.6	5516.9	5414.9	5241.6	5068.4	4888.9
17.5°	5426.1	5482.8	5544.6	5606.4	5605.5	5604.4	5535.6	5466.7	5291.2	5115.5	4919.6
20°	5054.9	5154.2	5290.6	5427.1	5499.6	5572.1	5548.0	5524.0	5341.5	5158.8	4943.6
22.5°	4701.6	4825.8	5026.5	5227.2	5377.4	5527.5	5559.0	5590.3	5403.9	5217.2	4976.0
25°	4403.3	4534.0	4777.7	5021.5	5249.4	5477.5	5576.6	5675.8	5493.0	5310.3	5034.6
27.5°	4164.4	4292.8	4563.0	4833.1	5134.9	5437.0	5614.5	5791.9	5617.5	5443.2	5126.1
30°	3993.8	4113.0	4394.5	4675.9	5047.7	5419.5	5683.8	5948.3	5779.8	5611.5	5244.7
32.5°	3945.0	4038.6	4303.1	4567.5	4988.2	5408.8	5770.7	6133.0	5966.1	5799.4	5368.4
35°	4205.4	4227.2	4410.8	4594.6	5032.8	5471.0	5914.1	6357.3	6197.7	6037.9	5509.5
37.5°	4971.7	4871.8	4883.8	4895.7	5294.0	5692.3	6213.7	6735.1	6531.4	6327.8	5667.4
40°	6240.2	5997.6	5788.5	5579.4	5875.6	6171.8	6738.9	7305.8	7009.2	6712.4	5868.0
42.5°	7949.9	7508.5	7052.5	6596.5	6767.0	6937.7	7500.2	8062.9	7634.6	7206.4	6130.3
45°	10022.8	9297.5	8566.7	7836.1	7911.6	7986.8	8492.2	8997.6	8420.0	7842.3	6475.5
47.5°	12322.2	11260.4	10206.7	9152.8	9168.1	9183.3	9675.1	10166.7	9353.6	8540.5	6843.4
50°	14607.8	13206.3	11848.1	10489.7	10487.2	10484.5	11091.6	11698.9	10473.2	9247.4	7184.6
52.5°	16817.6	15083.5	13461.0	11838.5	11913.1	11987.4	12722.5	13457.8	11649.3	9840.8	7406.2
55°	18976.5	16909.3	15103.7	13297.9	13587.7	13877.6	14604.0	15330.5	12692.1	10053.7	7357.4
57.5°	21068.0	18726.5	16903.2	15079.9	15661.1	16242.4	16638.1	17033.7	13431.0	9828.3	7013.7
60°	23806.2	21299.4	19573.8	17848.3	18570.2	19292.1	18677.6	18063.1	13615.7	9168.1	6374.1
62.5°	26282.0	23897.0	22316.1	20735.4	20816.9	20898.3	19219.4	17540.4	12838.0	8135.7	5509.2
65°	26599.7	24286.9	22278.0	20269.2	19957.6	19645.8	18069.9	16494.2	11737.9	6981.5	4626.7
67.5°	24890.6	22567.9	20475.1	18382.0	18236.0	18089.8	16591.1	15092.4	10428.6	5764.7	3762.4
70°	22541.5	20542.6	18671.1	16799.4	16733.9	16668.7	15038.4	13408.2	8999.9	4591.5	2962.4
72.5°	19662.4	18165.4	16700.9	15236.6	15189.8	15142.7	13272.0	11401.3	7451.1	3501.1	2264.7
75°	16414.9	15361.0	14221.7	13082.4	12908.5	12734.7	10798.7	8862.6	5675.7	2488.9	1643.7
77.5°	12924.0	12176.6	11310.5	10444.4	10195.7	9946.9	8139.4	6332.1	3972.5	1612.8	1113.8
80°	9504.1	9111.6	8457.8	7803.6	7494.5	7185.2	5664.9	4144.4	2559.4	974.5	717.6
82.5°	6243.3	6079.6	5629.3	5179.1	4833.6	4488.2	3448.5	2409.1	1481.3	553.7	441.4
85°	3583.6	3490.6	3120.9	2750.9	2457.1	2163.4	1611.6	1060.0	666.4	272.9	236.0
87.5°	1404.7	1396.8	1211.8	1026.8	862.9	698.9	513.5	328.1	218.2	108.3	97.8
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°	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2
2.5°	4141.7	4106.7	4071.5	4038.0	4004.4	3971.9	3935.7	3906.4	3877.3	3850.8	3824.6
5°	4309.6	4236.8	4164.2	4096.3	4028.4	3964.3	3900.9	3845.7	3790.2	3743.9	3697.6
7.5°	4462.5	4354.9	4247.4	4152.6	4057.8	3970.3	3888.4	3814.8	3741.5	3680.4	3619.4
10°	4576.2	4445.6	4314.8	4202.8	4090.5	3982.5	3894.5	3817.0	3739.4	3678.4	3617.3
12.5°	4659.4	4505.3	4351.1	4224.3	4097.4	3984.1	3902.2	3838.6	3775.5	3734.9	3694.6
15°	4709.5	4532.0	4354.5	4207.7	4060.8	3935.3	3869.6	3839.2	3809.0	3814.5	3820.1
17.5°	4723.8	4517.8	4311.8	4135.2	3958.7	3810.8	3770.5	3781.5	3792.6	3859.1	3925.6
20°	4728.4	4478.7	4229.0	4010.2	3791.4	3619.4	3608.6	3660.6	3712.4	3828.0	3943.7
22.5°	4734.5	4430.8	4127.1	3863.5	3599.9	3404.1	3425.0	3501.8	3578.6	3710.4	3842.6
25°	4758.7	4383.5	4008.5	3699.7	3391.2	3190.5	3247.0	3335.5	3424.0	3542.6	3661.3
27.5°	4809.0	4351.9	3894.8	3550.1	3205.3	3022.6	3091.3	3176.8	3262.2	3359.7	3457.1
30°	4878.0	4337.1	3795.9	3424.9	3053.9	2900.5	2954.4	3022.1	3090.2	3171.1	3252.0
32.5°	4937.5	4318.7	3699.7	3317.0	2934.1	2810.4	2834.4	2874.5	2914.7	2979.3	3043.9
35°	4981.2	4284.3	3587.7	3210.9	2834.1	2731.1	2721.2	2732.1	2743.3	2792.6	2841.7
37.5°	5007.1	4225.3	3443.4	3086.1	2728.9	2638.8	2602.5	2590.3	2578.0	2613.4	2648.7
40°	5023.4	4143.9	3264.5	2937.1	2609.8	2528.2	2472.4	2444.8	2417.2	2442.7	2468.1
42.5°	5054.4	4059.9	3065.8	2772.7	2479.8	2404.4	2334.3	2297.6	2261.0	2281.8	2302.7
45°	5108.9	3981.9	2855.1	2598.2	2341.2	2264.8	2197.0	2161.2	2125.6	2143.1	2160.8
47.5°	5146.3	3917.6	2688.8	2460.0	2231.3	2132.8	2074.4	2044.5	2014.5	2031.0	2047.3
50°	5121.8	3847.3	2572.9	2368.4	2163.8	2034.4	1966.5	1939.9	1913.6	1939.2	1964.9
52.5°	4971.6	3728.7	2486.1	2307.9	2129.7	1981.0	1886.1	1859.8	1833.7	1872.4	1910.8
55°	4661.0	3532.2	2403.4	2264.1	2124.7	1986.3	1843.4	1801.8	1760.4	1815.3	1869.9
57.5°	4199.3	3255.0	2310.7	2212.2	2113.8	1991.7	1817.6	1757.3	1696.8	1755.7	1814.7
60°	3580.1	2895.1	2210.2	2132.8	2055.4	1974.9	1793.5	1715.2	1636.8	1688.6	1740.1
62.5°	2882.6	2464.5	2046.3	1994.9	1943.6	1933.7	1765.5	1667.5	1569.7	1602.5	1635.3
65°	2272.2	2077.0	1881.8	1857.5	1833.2	1834.4	1706.3	1602.2	1497.9	1510.6	1523.1
67.5°	1760.0	1704.6	1649.0	1662.7	1676.1	1672.7	1600.6	1513.9	1427.3	1423.3	1419.3
70°	1333.1	1349.0	1364.7	1427.6	1490.4	1490.4	1466.7	1405.0	1343.4	1329.6	1315.9
72.5°	1028.4	1076.1	1124.0	1213.2	1302.2	1317.1	1317.4	1275.1	1232.9	1212.7	1192.7
75°	798.5	841.8	885.2	985.0	1084.8	1153.8	1148.0	1115.5	1082.8	1063.6	1044.2
77.5°	614.8	644.2	673.8	770.7	867.7	981.3	978.3	952.2	926.1	906.5	887.0
80°	460.9	473.1	485.3	567.4	649.4	785.3	784.7	762.9	741.0	724.7	708.2
82.5°	329.3	331.5	333.9	394.3	454.8	570.8	577.2	566.5	555.9	544.3	532.6
85°	199.2	198.1	196.9	241.2	285.4	371.7	380.0	368.6	357.1	344.2	331.2
87.5°	87.3	86.2	85.2	103.2	121.4	157.2	167.9	163.3	158.8	156.3	153.9
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: P965028
 CATALOG NUMBER: NAV-SB3D-727-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2
2.5°	3801.5	3778.6	3755.3	3732.2	3714.4	3696.5	3681.9	3667.4	3656.1	3644.8	3634.4
5°	3656.7	3615.8	3578.8	3541.5	3513.0	3484.3	3464.3	3444.3	3430.1	3415.9	3405.0
7.5°	3567.9	3516.4	3470.9	3425.6	3391.5	3357.6	3333.8	3309.9	3293.6	3277.4	3267.7
10°	3562.0	3506.4	3455.3	3404.1	3363.5	3322.8	3296.2	3269.3	3254.0	3238.6	3230.3
12.5°	3650.9	3607.6	3554.6	3501.8	3449.9	3398.1	3363.7	3329.4	3312.1	3295.1	3288.0
15°	3808.7	3797.4	3751.5	3705.6	3631.7	3557.9	3505.6	3453.4	3429.4	3405.7	3396.5
17.5°	3961.0	3996.3	3959.2	3922.3	3824.5	3726.6	3649.7	3572.7	3537.4	3501.8	3490.2
20°	4017.7	4091.7	4074.6	4057.4	3945.4	3833.8	3739.4	3645.3	3599.9	3554.5	3539.9
22.5°	3938.9	4035.2	4045.6	4055.8	3949.0	3842.1	3745.0	3647.9	3600.1	3552.1	3536.1
25°	3756.1	3850.8	3886.3	3921.5	3833.9	3746.5	3660.1	3574.0	3532.5	3491.2	3476.0
27.5°	3533.1	3609.1	3648.5	3688.1	3625.6	3563.3	3496.3	3429.3	3401.6	3373.6	3366.7
30°	3315.1	3378.2	3410.3	3442.3	3394.8	3347.2	3299.3	3251.1	3236.8	3222.5	3222.5
32.5°	3104.4	3165.0	3200.6	3236.2	3192.6	3148.8	3110.5	3072.2	3062.9	3053.6	3054.8
35°	2901.6	2961.5	3004.3	3047.0	3015.9	2984.9	2949.5	2914.3	2900.0	2886.0	2882.9
37.5°	2708.4	2768.2	2821.0	2873.8	2859.4	2845.1	2812.6	2779.9	2754.2	2728.5	2714.9
40°	2525.8	2583.5	2644.3	2705.2	2708.7	2712.0	2684.4	2656.8	2619.2	2582.0	2556.7
42.5°	2357.3	2412.1	2477.7	2543.3	2561.0	2578.5	2555.1	2532.0	2485.4	2438.9	2402.1
45°	2212.7	2264.5	2332.6	2400.7	2425.9	2451.1	2430.0	2409.1	2355.9	2302.7	2259.5
47.5°	2098.2	2148.8	2216.0	2283.2	2312.2	2341.2	2326.5	2311.9	2264.5	2217.3	2177.2
50°	2012.9	2060.7	2120.8	2180.9	2218.1	2255.4	2254.5	2253.9	2216.0	2178.1	2141.2
52.5°	1954.8	1998.5	2054.5	2110.7	2154.9	2198.9	2206.8	2214.8	2184.0	2153.1	2120.0
55°	1917.2	1964.5	2013.6	2062.6	2109.3	2156.2	2167.2	2178.1	2151.3	2124.4	2095.4
57.5°	1870.2	1925.8	1974.3	2022.9	2070.1	2117.1	2128.2	2139.4	2112.2	2085.1	2056.4
60°	1803.9	1867.8	1917.1	1966.5	2013.8	2061.1	2073.3	2085.6	2058.9	2032.6	2003.0
62.5°	1709.6	1784.1	1836.8	1889.4	1932.7	1976.1	1987.9	1999.6	1975.7	1951.7	1920.5
65°	1602.8	1682.6	1733.0	1783.3	1821.5	1859.7	1871.8	1883.6	1860.6	1837.5	1807.3
67.5°	1492.9	1566.6	1614.4	1662.0	1694.9	1727.9	1739.7	1751.3	1730.1	1709.0	1680.9
70°	1380.6	1445.2	1486.5	1527.7	1557.5	1587.2	1598.5	1609.9	1592.5	1575.3	1548.5
72.5°	1243.6	1294.5	1331.8	1369.0	1398.1	1427.3	1440.7	1454.2	1439.8	1425.5	1399.8
75°	1082.1	1119.9	1153.6	1187.4	1213.9	1240.5	1254.5	1268.5	1261.6	1254.5	1233.0
77.5°	917.9	948.5	977.5	1006.6	1034.4	1062.2	1075.3	1088.4	1078.7	1068.7	1046.9
80°	733.8	759.3	783.7	808.1	829.3	850.3	867.8	885.2	880.9	876.8	847.7
82.5°	530.5	528.4	519.8	511.3	556.5	601.6	631.2	660.8	659.0	657.0	632.4
85°	320.2	309.0	285.4	261.8	304.0	346.4	383.0	419.7	416.7	413.6	394.3
87.5°	153.3	152.9	134.9	116.7	134.5	152.3	167.1	181.9	178.2	174.2	164.5
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2
2.5°	3623.9	3611.0	3623.9	3634.4	3644.8	3656.1	3667.4	3681.9	3696.5	3714.4	3732.2
5°	3394.2	3383.5	3394.2	3405.0	3415.9	3430.1	3444.3	3464.3	3484.3	3513.0	3541.5
7.5°	3258.1	3250.8	3258.1	3267.7	3277.4	3293.6	3309.9	3333.8	3357.6	3391.5	3425.6
10°	3222.1	3218.7	3222.1	3230.3	3238.6	3254.0	3269.3	3296.2	3322.8	3363.5	3404.1
12.5°	3281.0	3279.8	3281.0	3288.0	3295.1	3312.1	3329.4	3363.7	3398.1	3449.9	3501.8
15°	3387.3	3386.6	3387.3	3396.5	3405.7	3429.4	3453.4	3505.6	3557.9	3631.7	3705.6
17.5°	3478.4	3476.6	3478.4	3490.2	3501.8	3537.4	3572.7	3649.7	3726.6	3824.5	3922.3
20°	3525.5	3520.9	3525.5	3539.9	3554.5	3599.9	3645.3	3739.4	3833.8	3945.4	4057.4
22.5°	3520.2	3513.3	3520.2	3536.1	3552.1	3600.1	3647.9	3745.0	3842.1	3949.0	4055.8
25°	3461.1	3452.2	3461.1	3476.0	3491.2	3532.5	3574.0	3660.1	3746.5	3833.9	3921.5
27.5°	3359.8	3357.6	3359.8	3366.7	3373.6	3401.6	3429.3	3496.3	3563.3	3625.6	3688.1
30°	3222.5	3224.9	3222.5	3222.5	3222.5	3236.8	3251.1	3299.3	3347.2	3394.8	3442.3
32.5°	3056.1	3058.5	3056.1	3054.8	3053.6	3062.9	3072.2	3110.5	3148.8	3192.6	3236.2
35°	2879.9	2878.4	2879.9	2882.9	2886.0	2900.0	2914.3	2949.5	2984.9	3015.9	3047.0
37.5°	2701.4	2693.7	2701.4	2714.9	2728.5	2754.2	2779.9	2812.6	2845.1	2859.4	2873.8
40°	2531.6	2516.7	2531.6	2556.7	2582.0	2619.2	2656.8	2684.4	2712.0	2708.7	2705.2
42.5°	2365.3	2341.2	2365.3	2402.1	2438.9	2485.4	2532.0	2555.1	2578.5	2561.0	2543.3
45°	2216.4	2188.6	2216.4	2259.5	2302.7	2355.9	2409.1	2430.0	2451.1	2425.9	2400.7
47.5°	2137.4	2110.7	2137.4	2177.2	2217.3	2264.5	2311.9	2326.5	2341.2	2312.2	2283.2
50°	2104.3	2078.7	2104.3	2141.2	2178.1	2216.0	2253.9	2254.5	2255.4	2218.1	2180.9
52.5°	2087.0	2063.4	2087.0	2120.0	2153.1	2184.0	2214.8	2206.8	2198.9	2154.9	2110.7
55°	2066.4	2045.1	2066.4	2095.4	2124.4	2151.3	2178.1	2167.2	2156.2	2109.3	2062.6
57.5°	2027.6	2005.4	2027.6	2056.4	2085.1	2112.2	2139.4	2128.2	2117.1	2070.1	2022.9
60°	1973.3	1950.5	1973.3	2003.0	2032.6	2058.9	2085.6	2073.3	2061.1	2013.8	1966.5
62.5°	1889.4	1861.9	1889.4	1920.5	1951.7	1975.7	1999.6	1987.9	1976.1	1932.7	1889.4
65°	1777.2	1753.6	1777.2	1807.3	1837.5	1860.6	1883.6	1871.8	1859.7	1821.5	1783.3
67.5°	1652.8	1631.5	1652.8	1680.9	1709.0	1730.1	1751.3	1739.7	1727.9	1694.9	1662.0
70°	1521.6	1497.2	1521.6	1548.5	1575.3	1592.5	1609.9	1598.5	1587.2	1557.5	1527.7
72.5°	1374.3	1350.6	1374.3	1399.8	1425.5	1439.8	1454.2	1440.7	1427.3	1398.1	1369.0
75°	1211.4	1188.9	1211.4	1233.0	1254.5	1261.6	1268.5	1254.5	1240.5	1213.9	1187.4
77.5°	1025.3	1007.3	1025.3	1046.9	1068.7	1078.7	1088.4	1075.3	1062.2	1034.4	1006.6
80°	818.4	784.4	818.4	847.7	876.8	880.9	885.2	867.8	850.3	829.3	808.1
82.5°	607.7	586.1	607.7	632.4	657.0	659.0	660.8	631.2	601.6	556.5	511.3
85°	375.2	355.6	375.2	394.3	413.6	416.7	419.7	383.0	346.4	304.0	261.8
87.5°	154.5	145.0	154.5	164.5	174.2	178.2	181.9	167.1	152.3	134.5	116.7
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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2
2.5°	3755.3	3778.6	3801.5	3824.6	3850.8	3877.3	3906.4	3935.7	3971.9	4004.4	4038.0
5°	3578.8	3615.8	3656.7	3697.6	3743.9	3790.2	3845.7	3900.9	3964.3	4028.4	4096.3
7.5°	3470.9	3516.4	3567.9	3619.4	3680.4	3741.5	3814.8	3888.4	3970.3	4057.8	4152.6
10°	3455.3	3506.4	3562.0	3617.3	3678.4	3739.4	3817.0	3894.5	3982.5	4090.5	4202.8
12.5°	3554.6	3607.6	3650.9	3694.6	3734.9	3775.5	3838.6	3902.2	3984.1	4097.4	4224.3
15°	3751.5	3797.4	3808.7	3820.1	3814.5	3809.0	3839.2	3869.6	3935.3	4060.8	4207.7
17.5°	3959.2	3996.3	3961.0	3925.6	3859.1	3792.6	3781.5	3770.5	3810.8	3958.7	4135.2
20°	4074.6	4091.7	4017.7	3943.7	3828.0	3712.4	3660.6	3608.6	3619.4	3791.4	4010.2
22.5°	4045.6	4035.2	3938.9	3842.6	3710.4	3578.6	3501.8	3425.0	3404.1	3599.9	3863.5
25°	3886.3	3850.8	3756.1	3661.3	3542.6	3424.0	3335.5	3247.0	3190.5	3391.2	3699.7
27.5°	3648.5	3609.1	3533.1	3457.1	3359.7	3262.2	3176.8	3091.3	3022.6	3205.3	3550.1
30°	3410.3	3378.2	3315.1	3252.0	3171.1	3090.2	3022.1	2954.4	2900.5	3053.9	3424.9
32.5°	3200.6	3165.0	3104.4	3043.9	2979.3	2914.7	2874.5	2834.4	2810.4	2934.1	3317.0
35°	3004.3	2961.5	2901.6	2841.7	2792.6	2743.3	2732.1	2721.2	2731.1	2834.1	3210.9
37.5°	2821.0	2768.2	2708.4	2648.7	2613.4	2578.0	2590.3	2602.5	2638.8	2728.9	3086.1
40°	2644.3	2583.5	2525.8	2468.1	2442.7	2417.2	2444.8	2472.4	2528.2	2609.8	2937.1
42.5°	2477.7	2412.1	2357.3	2302.7	2281.8	2261.0	2297.6	2334.3	2404.4	2479.8	2772.7
45°	2332.6	2264.5	2212.7	2160.8	2143.1	2125.6	2161.2	2197.0	2264.8	2341.2	2598.2
47.5°	2216.0	2148.8	2098.2	2047.3	2031.0	2014.5	2044.5	2074.4	2132.8	2231.3	2460.0
50°	2120.8	2060.7	2012.9	1964.9	1939.2	1913.6	1939.9	1966.5	2034.4	2163.8	2368.4
52.5°	2054.5	1998.5	1954.8	1910.8	1872.4	1833.7	1859.8	1886.1	1981.0	2129.7	2307.9
55°	2013.6	1964.5	1917.2	1869.9	1815.3	1760.4	1801.8	1843.4	1986.3	2124.7	2264.1
57.5°	1974.3	1925.8	1870.2	1814.7	1755.7	1696.8	1757.3	1817.6	1991.7	2113.8	2212.2
60°	1917.1	1867.8	1803.9	1740.1	1688.6	1636.8	1715.2	1793.5	1974.9	2055.4	2132.8
62.5°	1836.8	1784.1	1709.6	1635.3	1602.5	1569.7	1667.5	1765.5	1933.7	1943.6	1994.9
65°	1733.0	1682.6	1602.8	1523.1	1510.6	1497.9	1602.2	1706.3	1834.4	1833.2	1857.5
67.5°	1614.4	1566.6	1492.9	1419.3	1423.3	1427.3	1513.9	1600.6	1672.7	1676.1	1662.7
70°	1486.5	1445.2	1380.6	1315.9	1329.6	1343.4	1405.0	1466.7	1490.4	1490.4	1427.6
72.5°	1331.8	1294.5	1243.6	1192.7	1212.7	1232.9	1275.1	1317.4	1317.1	1302.2	1213.2
75°	1153.6	1119.9	1082.1	1044.2	1063.6	1082.8	1115.5	1148.0	1153.8	1084.8	985.0
77.5°	977.5	948.5	917.9	887.0	906.5	926.1	952.2	978.3	981.3	867.7	770.7
80°	783.7	759.3	733.8	708.2	724.7	741.0	762.9	784.7	785.3	649.4	567.4
82.5°	519.8	528.4	530.5	532.6	544.3	555.9	566.5	577.2	570.8	454.8	394.3
85°	285.4	309.0	320.2	331.2	344.2	357.1	368.6	380.0	371.7	285.4	241.2
87.5°	134.9	152.9	153.3	153.9	156.3	158.8	163.3	167.9	157.2	121.4	103.2
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):

	330°	335°	340°	345°	350°	355°	360°
0°	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2	3977.2
2.5°	4071.5	4106.7	4141.7	4176.6	4211.5	4244.3	4277.1
5°	4164.2	4236.8	4309.6	4381.8	4454.1	4526.6	4599.2
7.5°	4247.4	4354.9	4462.5	4573.0	4683.5	4803.0	4922.7
10°	4314.8	4445.6	4576.2	4722.2	4868.2	5019.4	5170.7
12.5°	4351.1	4505.3	4659.4	4824.9	4990.3	5156.4	5322.5
15°	4354.5	4532.0	4709.5	4888.9	5068.4	5241.6	5414.9
17.5°	4311.8	4517.8	4723.8	4919.6	5115.5	5291.2	5466.7
20°	4229.0	4478.7	4728.4	4943.6	5158.8	5341.5	5524.0
22.5°	4127.1	4430.8	4734.5	4976.0	5217.2	5403.9	5590.3
25°	4008.5	4383.5	4758.7	5034.6	5310.3	5493.0	5675.8
27.5°	3894.8	4351.9	4809.0	5126.1	5443.2	5617.5	5791.9
30°	3795.9	4337.1	4878.0	5244.7	5611.5	5779.8	5948.3
32.5°	3699.7	4318.7	4937.5	5368.4	5799.4	5966.1	6133.0
35°	3587.7	4284.3	4981.2	5509.5	6037.9	6197.7	6357.3
37.5°	3443.4	4225.3	5007.1	5667.4	6327.8	6531.4	6735.1
40°	3264.5	4143.9	5023.4	5868.0	6712.4	7009.2	7305.8
42.5°	3065.8	4059.9	5054.4	6130.3	7206.4	7634.6	8062.9
45°	2855.1	3981.9	5108.9	6475.5	7842.3	8420.0	8997.6
47.5°	2688.8	3917.6	5146.3	6843.4	8540.5	9353.6	10166.7
50°	2572.9	3847.3	5121.8	7184.6	9247.4	10473.2	11698.9
52.5°	2486.1	3728.7	4971.6	7406.2	9840.8	11649.3	13457.8
55°	2403.4	3532.2	4661.0	7357.4	10053.7	12692.1	15330.5
57.5°	2310.7	3255.0	4199.3	7013.7	9828.3	13431.0	17033.7
60°	2210.2	2895.1	3580.1	6374.1	9168.1	13615.7	18063.1
62.5°	2046.3	2464.5	2882.6	5509.2	8135.7	12838.0	17540.4
65°	1881.8	2077.0	2272.2	4626.7	6981.5	11737.9	16494.2
67.5°	1649.0	1704.6	1760.0	3762.4	5764.7	10428.6	15092.4
70°	1364.7	1349.0	1333.1	2962.4	4591.5	8999.9	13408.2
72.5°	1124.0	1076.1	1028.4	2264.7	3501.1	7451.1	11401.3
75°	885.2	841.8	798.5	1643.7	2488.9	5675.7	8862.6
77.5°	673.8	644.2	614.8	1113.8	1612.8	3972.5	6332.1
80°	485.3	473.1	460.9	717.6	974.5	2559.4	4144.4
82.5°	333.9	331.5	329.3	441.4	553.7	1481.3	2409.1
85°	196.9	198.1	199.2	236.0	272.9	666.4	1060.0
87.5°	85.2	86.2	87.3	97.8	108.3	218.2	328.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)