

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: P966051

Luminaire Tested: **NAV-SB4B-722-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966051
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-SB4B-722-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19040.4 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

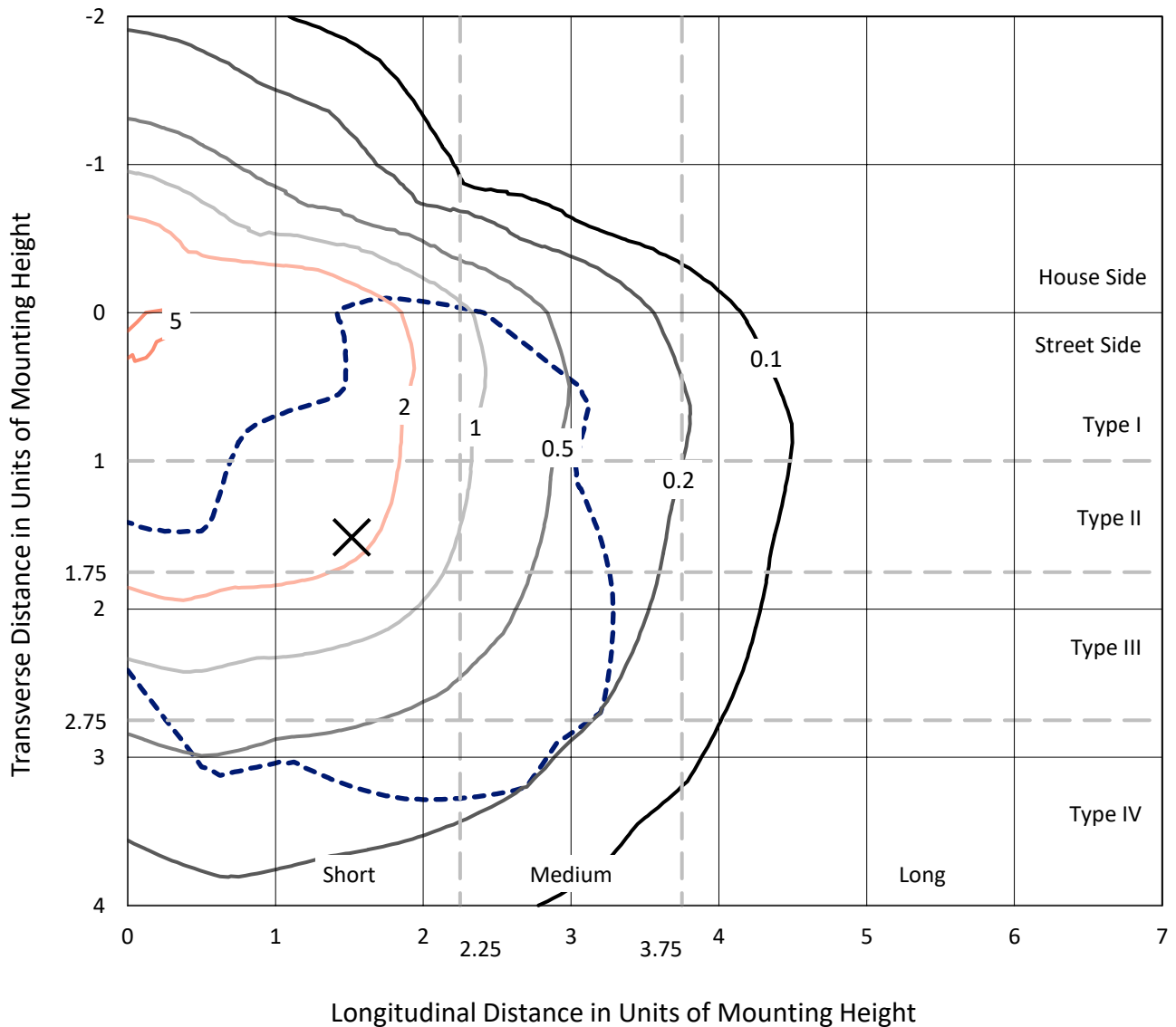
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

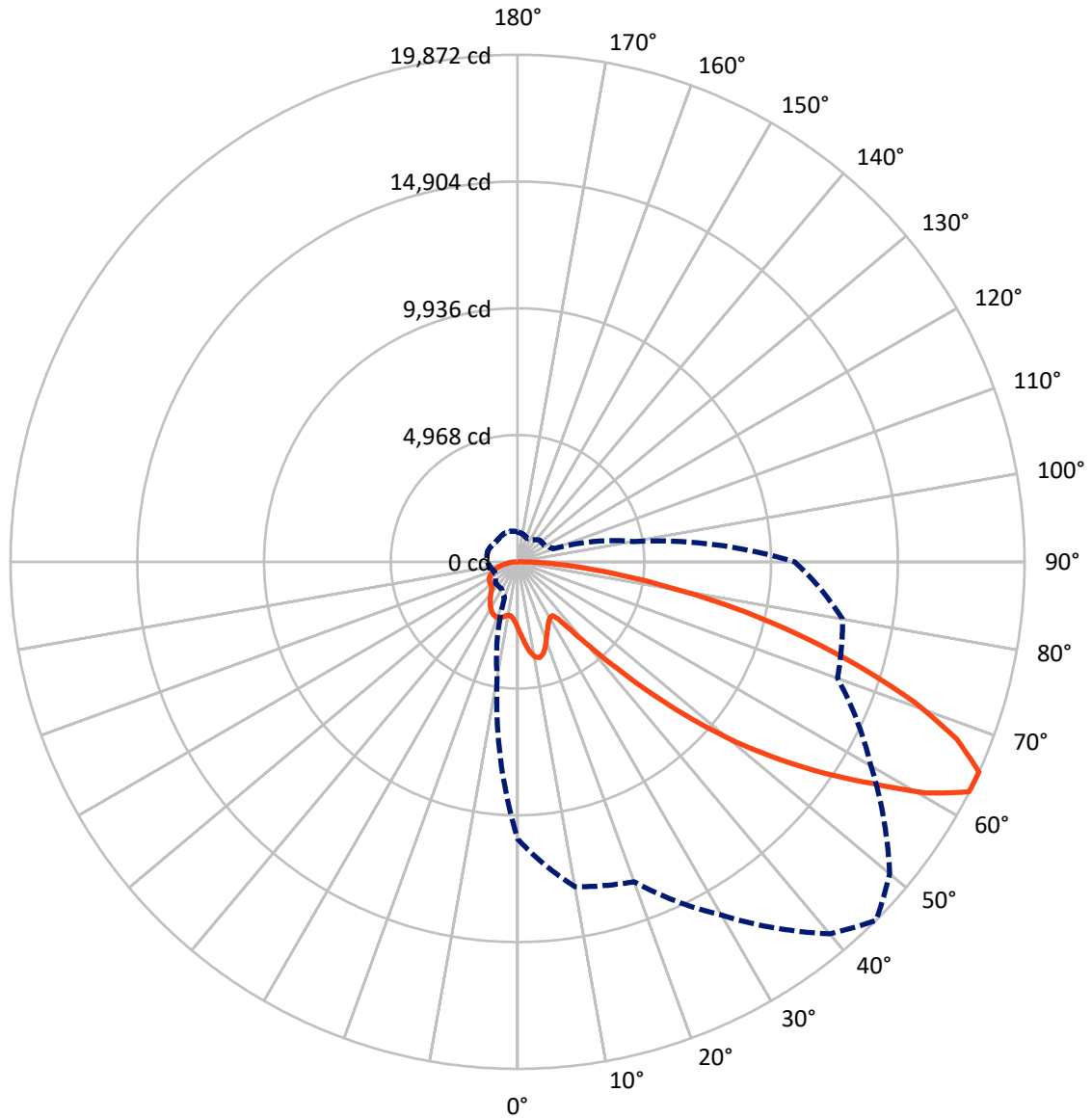
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P966051
CATALOG NUMBER: NAV-SB4B-722-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4839.1	0.0	4839.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	14201.3	0.0	14201.3
	% Fixture	74.6	0.0	74.6
Total	Lumens	19040.4	0.0	19040.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	1.4
10°-20°	815.3	4.3
20°-30°	1259.4	6.6
30°-40°	1596.0	8.4
40°-50°	2407.1	12.6
50°-60°	3889.1	20.4
60°-70°	4848.4	25.5
70°-80°	3179.3	16.7
80°-90°	786.0	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°	19040.4	100.0
0°-180°	19040.4	100.0

Coefficient of Utilization

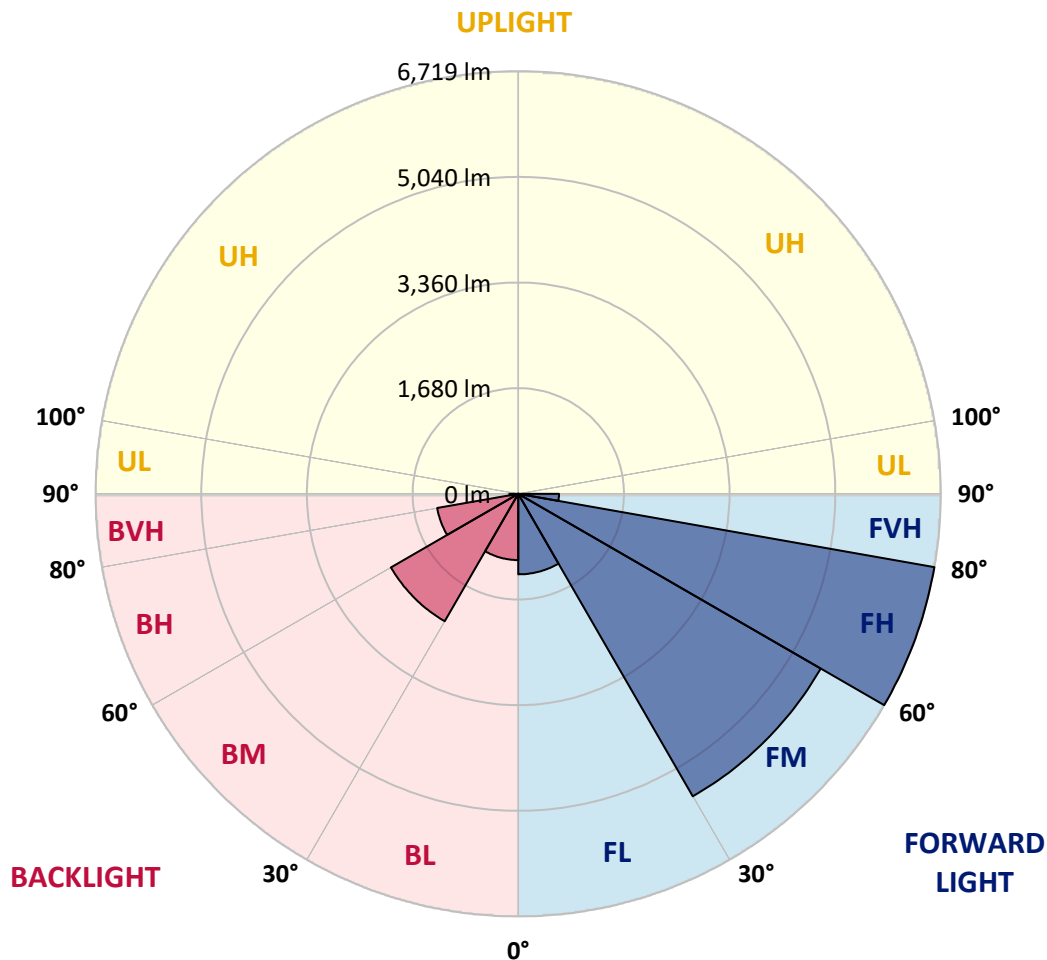


REPORT NUMBER: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.7	6.7			
FM (30°-60°)	5553.7	29.2			
FH (60°-80°)	6719.4	35.3			G3/7500
FVH (80°-90°)	647.5	3.4			G4/750
BL (0°-30°)	1053.8	5.5	B3/2500		
BM (30°-60°)	2338.5	12.3	B2/2500		
BH (60°-80°)	1308.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	138.5	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-G4
 Type IV Short



REPORT NUMBER: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3
2.5°	2815.7	2826.3	2837.0	2852.2	2867.3	2876.5	2885.5	2890.0	2894.5	2892.5	2894.5
5°	3027.6	3064.9	3102.3	3139.3	3176.4	3196.5	3216.6	3228.6	3240.9	3250.2	3240.9
7.5°	3240.6	3301.3	3361.9	3416.4	3471.0	3503.9	3536.7	3554.5	3572.1	3580.7	3572.1
10°	3403.9	3475.6	3547.3	3611.4	3675.3	3714.1	3752.7	3770.0	3787.2	3793.7	3787.2
12.5°	3503.9	3581.7	3659.2	3717.2	3774.8	3803.0	3831.0	3840.6	3850.0	3850.9	3850.0
15°	3564.6	3631.8	3698.7	3735.0	3771.4	3772.4	3773.4	3763.4	3753.3	3741.5	3753.3
17.5°	3598.8	3644.1	3689.4	3690.1	3690.7	3650.0	3609.3	3572.0	3534.7	3508.4	3534.7
20°	3636.5	3652.3	3668.2	3620.4	3572.6	3482.8	3393.1	3327.7	3262.3	3222.1	3262.3
22.5°	3680.2	3659.5	3638.7	3539.9	3441.0	3308.9	3176.8	3095.1	3013.3	2968.8	3013.3
25°	3736.4	3671.1	3605.8	3455.7	3305.6	3145.2	2984.7	2898.7	2812.9	2770.9	2812.9
27.5°	3812.8	3696.0	3579.2	3380.3	3181.6	3003.9	2826.0	2741.4	2656.9	2617.2	2656.9
30°	3915.8	3741.7	3567.6	3322.9	3078.2	2892.9	2707.6	2629.1	2550.7	2513.7	2550.7
32.5°	4037.4	3799.0	3560.6	3283.7	3006.8	2832.7	2658.6	2597.0	2535.3	2508.7	2535.3
35°	4185.1	3893.3	3601.6	3313.1	3024.6	2903.6	2782.8	2768.4	2754.1	2751.8	2754.1
37.5°	4433.7	4090.5	3747.3	3485.1	3222.8	3215.0	3207.1	3272.8	3338.6	3372.8	3338.6
40°	4809.4	4436.2	4063.0	3867.9	3673.0	3810.5	3948.2	4108.0	4267.7	4347.3	4267.7
42.5°	5307.8	4937.4	4567.1	4454.8	4342.5	4642.6	4942.9	5233.4	5523.9	5694.6	5523.9
45°	5923.2	5590.5	5257.7	5208.2	5158.6	5639.5	6120.6	6598.0	7075.5	7365.3	7075.5
47.5°	6692.7	6369.1	6045.4	6035.4	6025.4	6719.2	7412.8	8111.7	8810.6	9221.0	8810.6
50°	7701.4	7301.7	6902.0	6903.7	6905.4	7799.6	8693.7	9616.3	10538.9	11096.8	10538.9
52.5°	8859.4	8375.3	7891.4	7842.4	7793.4	8861.4	9929.6	11071.0	12212.5	12881.1	12212.5
55°	10092.2	9613.9	9135.6	8944.9	8754.0	9942.8	11131.5	12492.3	13853.2	14648.4	13853.2
57.5°	11213.3	10952.9	10692.4	10309.8	9927.1	11127.4	12327.8	13869.2	15410.5	16396.5	15410.5
60°	11891.0	12295.5	12700.1	12224.9	11749.7	12885.6	14021.5	15671.7	17322.1	18387.8	17322.1
62.5°	11546.9	12652.2	13757.4	13703.8	13650.2	14690.7	15731.4	17301.6	18871.6	19856.7	18871.6
65°	10858.1	11895.5	12932.8	13138.1	13343.2	14665.6	15988.2	17510.6	19033.0	19871.8	19033.0
67.5°	9935.3	10922.0	11908.6	12004.8	12100.9	13478.9	14856.6	16385.5	17914.6	18571.7	17914.6
70°	8826.7	9899.8	10973.0	11016.0	11059.1	12291.3	13523.3	14839.1	16154.9	16520.1	16154.9
72.5°	7505.6	8737.0	9968.5	9999.5	10030.3	10994.4	11958.3	12943.8	13929.2	13966.1	13929.2
75°	5834.2	7108.8	8383.4	8497.8	8612.2	9362.1	10112.2	10806.0	11499.7	11313.8	11499.7
77.5°	4168.5	5358.2	6548.1	6711.8	6875.6	7445.7	8015.9	8507.9	9000.0	8680.5	9000.0
80°	2728.2	3729.2	4730.1	4933.6	5137.2	5567.8	5998.2	6256.6	6514.9	6001.0	6514.9
82.5°	1585.9	2270.2	2954.6	3181.9	3409.5	3705.8	4002.2	4109.9	4217.7	3813.8	4217.7
85°	697.7	1061.0	1424.1	1617.6	1811.0	2054.5	2297.9	2359.1	2420.3	2096.7	2420.3
87.5°	216.0	338.0	460.1	568.1	676.0	797.8	919.5	924.8	929.9	780.6	929.9
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: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3
2.5°	2890.0	2885.5	2876.5	2867.3	2852.2	2837.0	2826.3	2815.7	2794.0	2772.4	2749.5
5°	3228.6	3216.6	3196.5	3176.4	3139.3	3102.3	3064.9	3027.6	2979.9	2932.2	2884.6
7.5°	3554.5	3536.7	3503.9	3471.0	3416.4	3361.9	3301.3	3240.6	3161.8	3083.2	3010.4
10°	3770.0	3752.7	3714.1	3675.3	3611.4	3547.3	3475.6	3403.9	3304.3	3204.8	3108.6
12.5°	3840.6	3831.0	3803.0	3774.8	3717.2	3659.2	3581.7	3503.9	3394.5	3285.1	3176.3
15°	3763.4	3773.4	3772.4	3771.4	3735.0	3698.7	3631.8	3564.6	3450.6	3336.6	3218.4
17.5°	3572.0	3609.3	3650.0	3690.7	3690.1	3689.4	3644.1	3598.8	3483.2	3367.5	3238.6
20°	3327.7	3393.1	3482.8	3572.6	3620.4	3668.2	3652.3	3636.5	3516.3	3396.0	3254.4
22.5°	3095.1	3176.8	3308.9	3441.0	3539.9	3638.7	3659.5	3680.2	3557.4	3434.6	3275.7
25°	2898.7	2984.7	3145.2	3305.6	3455.7	3605.8	3671.1	3736.4	3616.1	3495.9	3314.2
27.5°	2741.4	2826.0	3003.9	3181.6	3380.3	3579.2	3696.0	3812.8	3698.1	3583.2	3374.5
30°	2629.1	2707.6	2892.9	3078.2	3322.9	3567.6	3741.7	3915.8	3804.9	3694.0	3452.6
32.5°	2597.0	2658.6	2832.7	3006.8	3283.7	3560.6	3799.0	4037.4	3927.5	3817.8	3534.1
35°	2768.4	2782.8	2903.6	3024.6	3313.1	3601.6	3893.3	4185.1	4079.9	3974.7	3627.0
37.5°	3272.8	3207.1	3215.0	3222.8	3485.1	3747.3	4090.5	4433.7	4299.7	4165.6	3730.9
40°	4108.0	3948.2	3810.5	3673.0	3867.9	4063.0	4436.2	4809.4	4614.1	4418.8	3862.9
42.5°	5233.4	4942.9	4642.6	4342.5	4454.8	4567.1	4937.4	5307.8	5025.9	4743.9	4035.6
45°	6598.0	6120.6	5639.5	5158.6	5208.2	5257.7	5590.5	5923.2	5542.9	5162.6	4262.9
47.5°	8111.7	7412.8	6719.2	6025.4	6035.4	6045.4	6369.1	6692.7	6157.6	5622.2	4505.0
50°	9616.3	8693.7	7799.6	6905.4	6903.7	6902.0	7301.7	7701.4	6894.6	6087.6	4729.7
52.5°	11071.0	9929.6	8861.4	7793.4	7842.4	7891.4	8375.3	8859.4	7668.7	6478.2	4875.5
55°	12492.3	11131.5	9942.8	8754.0	8944.9	9135.6	9613.9	10092.2	8355.2	6618.4	4843.4
57.5°	13869.2	12327.8	11127.4	9927.1	10309.8	10692.4	10952.9	11213.3	8841.6	6470.0	4617.1
60°	15671.7	14021.5	12885.6	11749.7	12224.9	12700.1	12295.5	11891.0	8963.2	6035.4	4196.0
62.5°	17301.6	15731.4	14690.7	13650.2	13703.8	13757.4	12652.2	11546.9	8451.3	5355.8	3626.8
65°	17510.6	15988.2	14665.6	13343.2	13138.1	12932.8	11895.5	10858.1	7727.1	4596.0	3045.8
67.5°	16385.5	14856.6	13478.9	12100.9	12004.8	11908.6	10922.0	9935.3	6865.1	3795.0	2476.8
70°	14839.1	13523.3	12291.3	11059.1	11016.0	10973.0	9899.8	8826.7	5924.6	3022.6	1950.1
72.5°	12943.8	11958.3	10994.4	10030.3	9999.5	9968.5	8737.0	7505.6	4905.1	2304.7	1490.9
75°	10806.0	10112.2	9362.1	8612.2	8497.8	8383.4	7108.8	5834.2	3736.3	1638.5	1082.1
77.5°	8507.9	8015.9	7445.7	6875.6	6711.8	6548.1	5358.2	4168.5	2615.1	1061.8	733.2
80°	6256.6	5998.2	5567.8	5137.2	4933.6	4730.1	3729.2	2728.2	1684.9	641.4	472.4
82.5°	4109.9	4002.2	3705.8	3409.5	3181.9	2954.6	2270.2	1585.9	975.2	364.5	290.6
85°	2359.1	2297.9	2054.5	1811.0	1617.6	1424.1	1061.0	697.7	438.6	179.7	155.3
87.5°	924.8	919.5	797.8	676.0	568.1	460.1	338.0	216.0	143.7	71.3	64.4
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: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3
2.5°	2726.5	2703.4	2680.3	2658.2	2636.1	2614.7	2590.9	2571.6	2552.5	2535.0	2517.7
5°	2837.0	2789.1	2741.3	2696.6	2651.9	2609.6	2568.0	2531.6	2495.2	2464.6	2434.2
7.5°	2937.8	2866.9	2796.1	2733.7	2671.3	2613.6	2559.7	2511.4	2463.0	2422.8	2382.6
10°	3012.6	2926.6	2840.5	2766.7	2692.8	2621.7	2563.7	2512.7	2461.6	2421.5	2381.3
12.5°	3067.3	2965.8	2864.4	2780.9	2697.4	2622.8	2568.8	2527.0	2485.4	2458.7	2432.1
15°	3100.3	2983.5	2866.6	2770.0	2673.3	2590.6	2547.4	2527.4	2507.5	2511.1	2514.7
17.5°	3109.7	2974.0	2838.4	2722.2	2606.0	2508.7	2482.0	2489.4	2496.7	2540.5	2584.2
20°	3112.7	2948.3	2784.0	2639.9	2495.9	2382.6	2375.5	2409.8	2443.9	2520.0	2596.1
22.5°	3116.7	2916.8	2716.9	2543.3	2369.9	2241.0	2254.7	2305.2	2355.8	2442.6	2529.6
25°	3132.6	2885.7	2638.9	2435.6	2232.4	2100.3	2137.4	2195.8	2254.0	2332.1	2410.3
27.5°	3165.8	2864.9	2563.9	2337.0	2110.1	1989.8	2035.0	2091.3	2147.5	2211.7	2275.8
30°	3211.2	2855.1	2498.8	2254.6	2010.3	1909.4	1944.8	1989.5	2034.3	2087.5	2140.8
32.5°	3250.4	2843.0	2435.6	2183.6	1931.5	1850.1	1865.9	1892.4	1918.8	1961.2	2003.9
35°	3279.1	2820.4	2361.8	2113.8	1865.7	1797.8	1791.4	1798.6	1805.9	1838.3	1870.7
37.5°	3296.2	2781.4	2266.8	2031.5	1796.4	1737.1	1713.2	1705.2	1697.1	1720.5	1743.6
40°	3307.0	2727.9	2149.0	1933.6	1718.0	1664.3	1627.6	1609.5	1591.2	1608.0	1624.8
42.5°	3327.4	2672.7	2018.2	1825.3	1632.4	1582.9	1536.7	1512.6	1488.4	1502.1	1515.9
45°	3363.2	2621.3	1879.5	1710.4	1541.2	1491.0	1446.3	1422.7	1399.3	1410.8	1422.4
47.5°	3387.8	2578.9	1770.1	1619.5	1468.8	1404.0	1365.6	1345.9	1326.1	1337.0	1347.8
50°	3371.7	2532.7	1693.7	1559.0	1424.4	1339.3	1294.6	1277.0	1259.7	1276.5	1293.6
52.5°	3272.7	2454.7	1636.6	1519.3	1402.0	1304.1	1241.6	1224.4	1207.1	1232.6	1257.9
55°	3068.3	2325.2	1582.2	1490.5	1398.7	1307.6	1213.5	1186.1	1158.9	1194.9	1230.9
57.5°	2764.4	2142.8	1521.1	1456.3	1391.5	1311.1	1196.6	1156.8	1117.0	1155.8	1194.5
60°	2356.8	1905.9	1455.0	1404.0	1353.1	1300.1	1180.7	1129.1	1077.5	1111.6	1145.5
62.5°	1897.7	1622.4	1347.1	1313.2	1279.5	1272.9	1162.2	1097.7	1033.3	1054.9	1076.6
65°	1495.8	1367.2	1238.8	1222.8	1206.8	1207.7	1123.2	1054.7	986.2	994.5	1002.7
67.5°	1158.6	1122.2	1085.6	1094.5	1103.3	1101.2	1053.7	996.6	939.6	937.0	934.4
70°	877.6	888.1	898.4	939.8	981.0	981.0	965.6	925.0	884.4	875.2	866.2
72.5°	676.9	708.4	739.9	798.6	857.2	867.0	867.3	839.4	811.6	798.4	785.2
75°	525.6	554.2	582.7	648.4	714.1	759.5	755.7	734.3	712.8	700.2	687.4
77.5°	404.7	424.0	443.6	507.4	571.1	646.1	644.0	626.8	609.7	596.8	583.9
80°	303.4	311.5	319.5	373.5	427.5	516.9	516.6	502.2	487.8	477.0	466.2
82.5°	216.8	218.2	219.9	259.6	299.4	375.8	380.0	372.9	365.9	358.2	350.7
85°	131.1	130.4	129.6	158.8	187.9	244.7	250.2	242.6	235.1	226.5	218.0
87.5°	57.5	56.8	56.1	68.0	79.8	103.5	110.5	107.5	104.4	102.9	101.3
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: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3
2.5°	2502.5	2487.4	2472.1	2456.9	2445.2	2433.4	2423.8	2414.3	2406.8	2399.4	2392.6
5°	2407.2	2380.4	2355.9	2331.4	2312.6	2293.7	2280.5	2267.4	2258.1	2248.6	2241.6
7.5°	2348.8	2314.8	2284.8	2255.0	2232.7	2210.3	2194.6	2178.9	2168.2	2157.5	2151.2
10°	2344.9	2308.3	2274.6	2241.0	2214.2	2187.5	2169.9	2152.3	2142.1	2132.0	2126.6
12.5°	2403.4	2374.9	2340.0	2305.2	2271.1	2237.0	2214.3	2191.8	2180.4	2169.1	2164.5
15°	2507.3	2499.9	2469.6	2439.4	2390.7	2342.1	2307.8	2273.4	2257.7	2242.0	2235.9
17.5°	2607.6	2630.8	2606.4	2582.1	2517.6	2453.2	2402.6	2352.0	2328.7	2305.2	2297.6
20°	2644.8	2693.6	2682.3	2670.9	2597.4	2523.8	2461.6	2399.7	2369.9	2339.9	2330.3
22.5°	2593.0	2656.4	2663.3	2669.9	2599.6	2529.3	2465.4	2401.4	2370.0	2338.4	2327.9
25°	2472.6	2535.0	2558.3	2581.6	2523.9	2466.4	2409.5	2352.8	2325.4	2298.3	2288.3
27.5°	2325.8	2375.8	2401.8	2427.8	2386.7	2345.7	2301.6	2257.6	2239.2	2220.9	2216.4
30°	2182.3	2223.8	2245.0	2266.1	2234.8	2203.4	2172.0	2140.2	2130.9	2121.4	2121.4
32.5°	2043.6	2083.5	2106.9	2130.5	2101.7	2072.9	2047.6	2022.4	2016.3	2010.2	2010.9
35°	1910.1	1949.5	1977.7	2005.8	1985.3	1964.9	1941.7	1918.5	1909.1	1899.8	1897.9
37.5°	1782.9	1822.3	1857.1	1891.8	1882.4	1873.0	1851.6	1830.0	1813.0	1796.2	1787.2
40°	1662.8	1700.8	1740.8	1780.8	1783.1	1785.3	1767.1	1749.0	1724.3	1699.8	1683.0
42.5°	1551.8	1587.9	1631.1	1674.3	1685.8	1697.4	1682.0	1666.8	1636.1	1605.5	1581.3
45°	1456.6	1490.8	1535.6	1580.3	1596.9	1613.6	1599.6	1585.9	1550.8	1515.9	1487.5
47.5°	1381.3	1414.6	1458.8	1503.1	1522.1	1541.2	1531.6	1521.9	1490.8	1459.6	1433.3
50°	1325.1	1356.5	1396.2	1435.7	1460.2	1484.7	1484.1	1483.7	1458.8	1433.9	1409.6
52.5°	1286.8	1315.7	1352.5	1389.5	1418.5	1447.5	1452.7	1458.0	1437.7	1417.4	1395.6
55°	1262.1	1293.2	1325.6	1357.8	1388.6	1419.4	1426.7	1433.9	1416.2	1398.5	1379.4
57.5°	1231.1	1267.7	1299.7	1331.7	1362.7	1393.7	1401.1	1408.4	1390.5	1372.6	1353.7
60°	1187.6	1229.5	1262.0	1294.6	1325.7	1356.8	1364.9	1372.9	1355.5	1338.0	1318.6
62.5°	1125.4	1174.4	1209.2	1243.8	1272.3	1300.8	1308.6	1316.3	1300.5	1284.8	1264.3
65°	1055.1	1107.7	1140.8	1173.9	1199.0	1224.3	1232.2	1239.9	1224.8	1209.6	1189.7
67.5°	982.8	1031.4	1062.7	1094.1	1115.8	1137.5	1145.2	1152.9	1138.9	1125.0	1106.6
70°	908.9	951.4	978.6	1005.7	1025.3	1044.9	1052.3	1059.7	1048.4	1037.0	1019.4
72.5°	818.8	852.2	876.7	901.2	920.3	939.6	948.4	957.2	947.8	938.4	921.5
75°	712.4	737.3	759.4	781.7	799.1	816.6	825.8	835.1	830.5	825.8	811.7
77.5°	604.2	624.4	643.5	662.6	681.0	699.3	707.9	716.6	710.1	703.5	689.2
80°	483.1	499.8	515.9	532.0	545.9	559.9	571.2	582.7	579.9	577.2	558.0
82.5°	349.2	347.8	342.2	336.6	366.3	396.1	415.5	435.0	433.8	432.6	416.4
85°	210.7	203.5	187.9	172.3	200.2	228.1	252.2	276.3	274.3	272.2	259.6
87.5°	101.0	100.7	88.8	76.9	88.6	100.2	110.0	119.7	117.4	114.7	108.3
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: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3
2.5°	2385.6	2377.1	2385.6	2392.6	2399.4	2406.8	2414.3	2423.8	2433.4	2445.2	2456.9
5°	2234.4	2227.4	2234.4	2241.6	2248.6	2258.1	2267.4	2280.5	2293.7	2312.6	2331.4
7.5°	2144.8	2140.0	2144.8	2151.2	2157.5	2168.2	2178.9	2194.6	2210.3	2232.7	2255.0
10°	2121.1	2118.9	2121.1	2126.6	2132.0	2142.1	2152.3	2169.9	2187.5	2214.2	2241.0
12.5°	2159.9	2159.1	2159.9	2164.5	2169.1	2180.4	2191.8	2214.3	2237.0	2271.1	2305.2
15°	2229.9	2229.4	2229.9	2235.9	2242.0	2257.7	2273.4	2307.8	2342.1	2390.7	2439.4
17.5°	2289.8	2288.7	2289.8	2297.6	2305.2	2328.7	2352.0	2402.6	2453.2	2517.6	2582.1
20°	2320.8	2317.8	2320.8	2330.3	2339.9	2369.9	2399.7	2461.6	2523.8	2597.4	2670.9
22.5°	2317.3	2312.8	2317.3	2327.9	2338.4	2370.0	2401.4	2465.4	2529.3	2599.6	2669.9
25°	2278.5	2272.6	2278.5	2288.3	2298.3	2325.4	2352.8	2409.5	2466.4	2523.9	2581.6
27.5°	2211.8	2210.3	2211.8	2216.4	2220.9	2239.2	2257.6	2301.6	2345.7	2386.7	2427.8
30°	2121.4	2122.9	2121.4	2121.4	2121.4	2130.9	2140.2	2172.0	2203.4	2234.8	2266.1
32.5°	2011.9	2013.4	2011.9	2010.9	2010.2	2016.3	2022.4	2047.6	2072.9	2101.7	2130.5
35°	1895.8	1894.8	1895.8	1897.9	1899.8	1909.1	1918.5	1941.7	1964.9	1985.3	2005.8
37.5°	1778.3	1773.2	1778.3	1787.2	1796.2	1813.0	1830.0	1851.6	1873.0	1882.4	1891.8
40°	1666.5	1656.7	1666.5	1683.0	1699.8	1724.3	1749.0	1767.1	1785.3	1783.1	1780.8
42.5°	1557.1	1541.2	1557.1	1581.3	1605.5	1636.1	1666.8	1682.0	1697.4	1685.8	1674.3
45°	1459.0	1440.7	1459.0	1487.5	1515.9	1550.8	1585.9	1599.6	1613.6	1596.9	1580.3
47.5°	1407.0	1389.5	1407.0	1433.3	1459.6	1490.8	1521.9	1531.6	1541.2	1522.1	1503.1
50°	1385.3	1368.4	1385.3	1409.6	1433.9	1458.8	1483.7	1484.1	1484.7	1460.2	1435.7
52.5°	1373.9	1358.3	1373.9	1395.6	1417.4	1437.7	1458.0	1452.7	1447.5	1418.5	1389.5
55°	1360.4	1346.2	1360.4	1379.4	1398.5	1416.2	1433.9	1426.7	1419.4	1388.6	1357.8
57.5°	1334.8	1320.2	1334.8	1353.7	1372.6	1390.5	1408.4	1401.1	1393.7	1362.7	1331.7
60°	1299.1	1284.0	1299.1	1318.6	1338.0	1355.5	1372.9	1364.9	1356.8	1325.7	1294.6
62.5°	1243.8	1225.7	1243.8	1264.3	1284.8	1300.5	1316.3	1308.6	1300.8	1272.3	1243.8
65°	1169.9	1154.4	1169.9	1189.7	1209.6	1224.8	1239.9	1232.2	1224.3	1199.0	1173.9
67.5°	1088.0	1074.0	1088.0	1106.6	1125.0	1138.9	1152.9	1145.2	1137.5	1115.8	1094.1
70°	1001.6	985.6	1001.6	1019.4	1037.0	1048.4	1059.7	1052.3	1044.9	1025.3	1005.7
72.5°	904.8	889.2	904.8	921.5	938.4	947.8	957.2	948.4	939.6	920.3	901.2
75°	797.6	782.7	797.6	811.7	825.8	830.5	835.1	825.8	816.6	799.1	781.7
77.5°	675.0	663.1	675.0	689.2	703.5	710.1	716.6	707.9	699.3	681.0	662.6
80°	538.7	516.4	538.7	558.0	577.2	579.9	582.7	571.2	559.9	545.9	532.0
82.5°	400.1	385.8	400.1	416.4	432.6	433.8	435.0	415.5	396.1	366.3	336.6
85°	246.9	234.1	246.9	259.6	272.2	274.3	276.3	252.2	228.1	200.2	172.3
87.5°	101.7	95.4	101.7	108.3	114.7	117.4	119.7	110.0	100.2	88.6	76.9
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: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3
2.5°	2472.1	2487.4	2502.5	2517.7	2535.0	2552.5	2571.6	2590.9	2614.7	2636.1	2658.2
5°	2355.9	2380.4	2407.2	2434.2	2464.6	2495.2	2531.6	2568.0	2609.6	2651.9	2696.6
7.5°	2284.8	2314.8	2348.8	2382.6	2422.8	2463.0	2511.4	2559.7	2613.6	2671.3	2733.7
10°	2274.6	2308.3	2344.9	2381.3	2421.5	2461.6	2512.7	2563.7	2621.7	2692.8	2766.7
12.5°	2340.0	2374.9	2403.4	2432.1	2458.7	2485.4	2527.0	2568.8	2622.8	2697.4	2780.9
15°	2469.6	2499.9	2507.3	2514.7	2511.1	2507.5	2527.4	2547.4	2590.6	2673.3	2770.0
17.5°	2606.4	2630.8	2607.6	2584.2	2540.5	2496.7	2489.4	2482.0	2508.7	2606.0	2722.2
20°	2682.3	2693.6	2644.8	2596.1	2520.0	2443.9	2409.8	2375.5	2382.6	2495.9	2639.9
22.5°	2663.3	2656.4	2593.0	2529.6	2442.6	2355.8	2305.2	2254.7	2241.0	2369.9	2543.3
25°	2558.3	2535.0	2472.6	2410.3	2332.1	2254.0	2195.8	2137.4	2100.3	2232.4	2435.6
27.5°	2401.8	2375.8	2325.8	2275.8	2211.7	2147.5	2091.3	2035.0	1989.8	2110.1	2337.0
30°	2245.0	2223.8	2182.3	2140.8	2087.5	2034.3	1989.5	1944.8	1909.4	2010.3	2254.6
32.5°	2106.9	2083.5	2043.6	2003.9	1961.2	1918.8	1892.4	1865.9	1850.1	1931.5	2183.6
35°	1977.7	1949.5	1910.1	1870.7	1838.3	1805.9	1798.6	1791.4	1797.8	1865.7	2113.8
37.5°	1857.1	1822.3	1782.9	1743.6	1720.5	1697.1	1705.2	1713.2	1737.1	1796.4	2031.5
40°	1740.8	1700.8	1662.8	1624.8	1608.0	1591.2	1609.5	1627.6	1664.3	1718.0	1933.6
42.5°	1631.1	1587.9	1551.8	1515.9	1502.1	1488.4	1512.6	1536.7	1582.9	1632.4	1825.3
45°	1535.6	1490.8	1456.6	1422.4	1410.8	1399.3	1422.7	1446.3	1491.0	1541.2	1710.4
47.5°	1458.8	1414.6	1381.3	1347.8	1337.0	1326.1	1345.9	1365.6	1404.0	1468.8	1619.5
50°	1396.2	1356.5	1325.1	1293.6	1276.5	1259.7	1277.0	1294.6	1339.3	1424.4	1559.0
52.5°	1352.5	1315.7	1286.8	1257.9	1232.6	1207.1	1224.4	1241.6	1304.1	1402.0	1519.3
55°	1325.6	1293.2	1262.1	1230.9	1194.9	1158.9	1186.1	1213.5	1307.6	1398.7	1490.5
57.5°	1299.7	1267.7	1231.1	1194.5	1155.8	1117.0	1156.8	1196.6	1311.1	1391.5	1456.3
60°	1262.0	1229.5	1187.6	1145.5	1111.6	1077.5	1129.1	1180.7	1300.1	1353.1	1404.0
62.5°	1209.2	1174.4	1125.4	1076.6	1054.9	1033.3	1097.7	1162.2	1272.9	1279.5	1313.2
65°	1140.8	1107.7	1055.1	1002.7	994.5	986.2	1054.7	1123.2	1207.7	1206.8	1222.8
67.5°	1062.7	1031.4	982.8	934.4	937.0	939.6	996.6	1053.7	1101.2	1103.3	1094.5
70°	978.6	951.4	908.9	866.2	875.2	884.4	925.0	965.6	981.0	981.0	939.8
72.5°	876.7	852.2	818.8	785.2	798.4	811.6	839.4	867.3	867.0	857.2	798.6
75°	759.4	737.3	712.4	687.4	700.2	712.8	734.3	755.7	759.5	714.1	648.4
77.5°	643.5	624.4	604.2	583.9	596.8	609.7	626.8	644.0	646.1	571.1	507.4
80°	515.9	499.8	483.1	466.2	477.0	487.8	502.2	516.6	516.9	427.5	373.5
82.5°	342.2	347.8	349.2	350.7	358.2	365.9	372.9	380.0	375.8	299.4	259.6
85°	187.9	203.5	210.7	218.0	226.5	235.1	242.6	250.2	244.7	187.9	158.8
87.5°	88.8	100.7	101.0	101.3	102.9	104.4	107.5	110.5	103.5	79.8	68.0
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: P966051
 CATALOG NUMBER: NAV-SB4B-722-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3	2618.3
2.5°	2680.3	2703.4	2726.5	2749.5	2772.4	2794.0	2815.7
5°	2741.3	2789.1	2837.0	2884.6	2932.2	2979.9	3027.6
7.5°	2796.1	2866.9	2937.8	3010.4	3083.2	3161.8	3240.6
10°	2840.5	2926.6	3012.6	3108.6	3204.8	3304.3	3403.9
12.5°	2864.4	2965.8	3067.3	3176.3	3285.1	3394.5	3503.9
15°	2866.6	2983.5	3100.3	3218.4	3336.6	3450.6	3564.6
17.5°	2838.4	2974.0	3109.7	3238.6	3367.5	3483.2	3598.8
20°	2784.0	2948.3	3112.7	3254.4	3396.0	3516.3	3636.5
22.5°	2716.9	2916.8	3116.7	3275.7	3434.6	3557.4	3680.2
25°	2638.9	2885.7	3132.6	3314.2	3495.9	3616.1	3736.4
27.5°	2563.9	2864.9	3165.8	3374.5	3583.2	3698.1	3812.8
30°	2498.8	2855.1	3211.2	3452.6	3694.0	3804.9	3915.8
32.5°	2435.6	2843.0	3250.4	3534.1	3817.8	3927.5	4037.4
35°	2361.8	2820.4	3279.1	3627.0	3974.7	4079.9	4185.1
37.5°	2266.8	2781.4	3296.2	3730.9	4165.6	4299.7	4433.7
40°	2149.0	2727.9	3307.0	3862.9	4418.8	4614.1	4809.4
42.5°	2018.2	2672.7	3327.4	4035.6	4743.9	5025.9	5307.8
45°	1879.5	2621.3	3363.2	4262.9	5162.6	5542.9	5923.2
47.5°	1770.1	2578.9	3387.8	4505.0	5622.2	6157.6	6692.7
50°	1693.7	2532.7	3371.7	4729.7	6087.6	6894.6	7701.4
52.5°	1636.6	2454.7	3272.7	4875.5	6478.2	7668.7	8859.4
55°	1582.2	2325.2	3068.3	4843.4	6618.4	8355.2	10092.2
57.5°	1521.1	2142.8	2764.4	4617.1	6470.0	8841.6	11213.3
60°	1455.0	1905.9	2356.8	4196.0	6035.4	8963.2	11891.0
62.5°	1347.1	1622.4	1897.7	3626.8	5355.8	8451.3	11546.9
65°	1238.8	1367.2	1495.8	3045.8	4596.0	7727.1	10858.1
67.5°	1085.6	1122.2	1158.6	2476.8	3795.0	6865.1	9935.3
70°	898.4	888.1	877.6	1950.1	3022.6	5924.6	8826.7
72.5°	739.9	708.4	676.9	1490.9	2304.7	4905.1	7505.6
75°	582.7	554.2	525.6	1082.1	1638.5	3736.3	5834.2
77.5°	443.6	424.0	404.7	733.2	1061.8	2615.1	4168.5
80°	319.5	311.5	303.4	472.4	641.4	1684.9	2728.2
82.5°	219.9	218.2	216.8	290.6	364.5	975.2	1585.9
85°	129.6	130.4	131.1	155.3	179.7	438.6	697.7
87.5°	56.1	56.8	57.5	64.4	71.3	143.7	216.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)