

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: P966115

Luminaire Tested: **NAV-SB4B-730-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966115
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-730-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23049.2 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

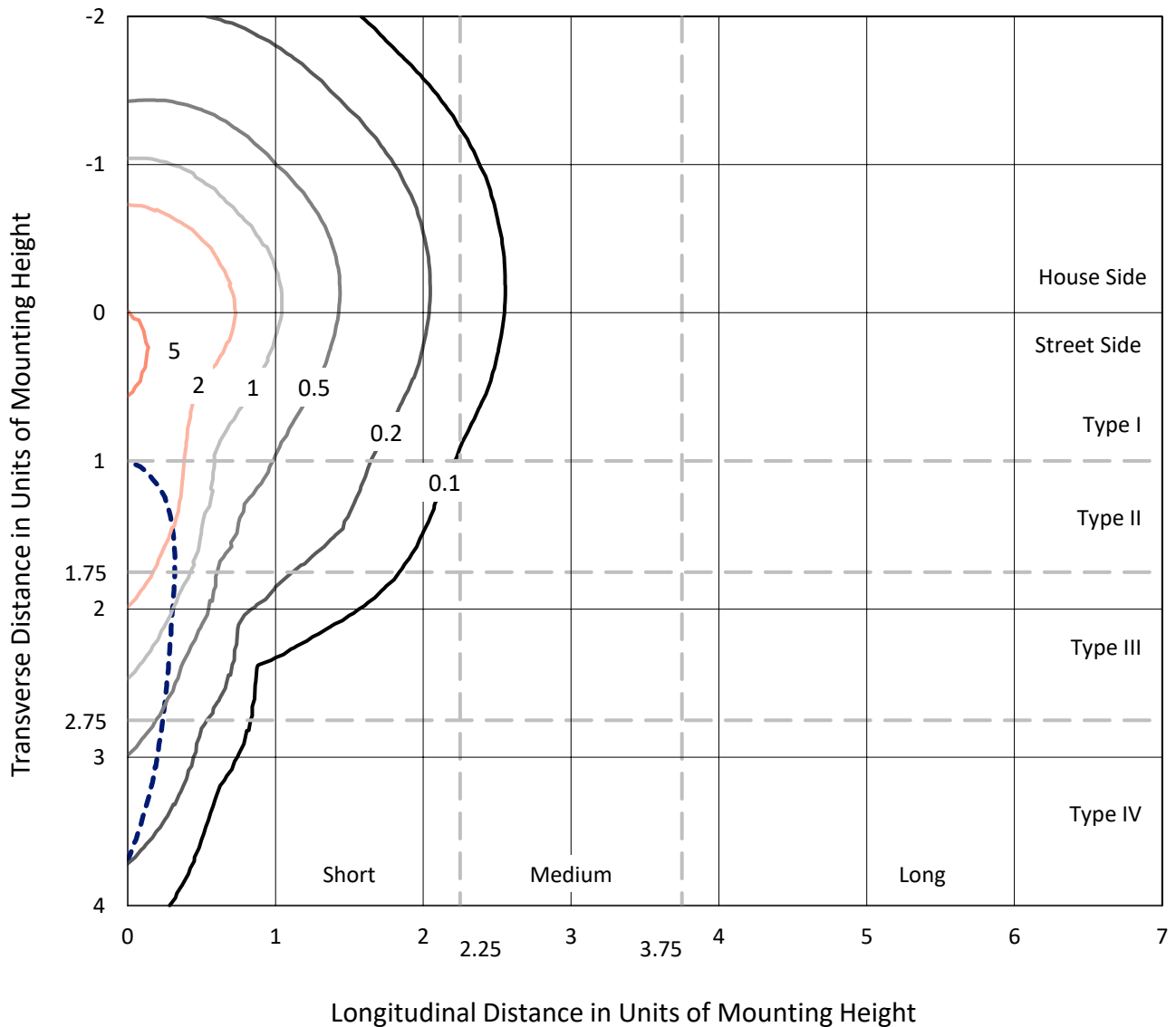
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

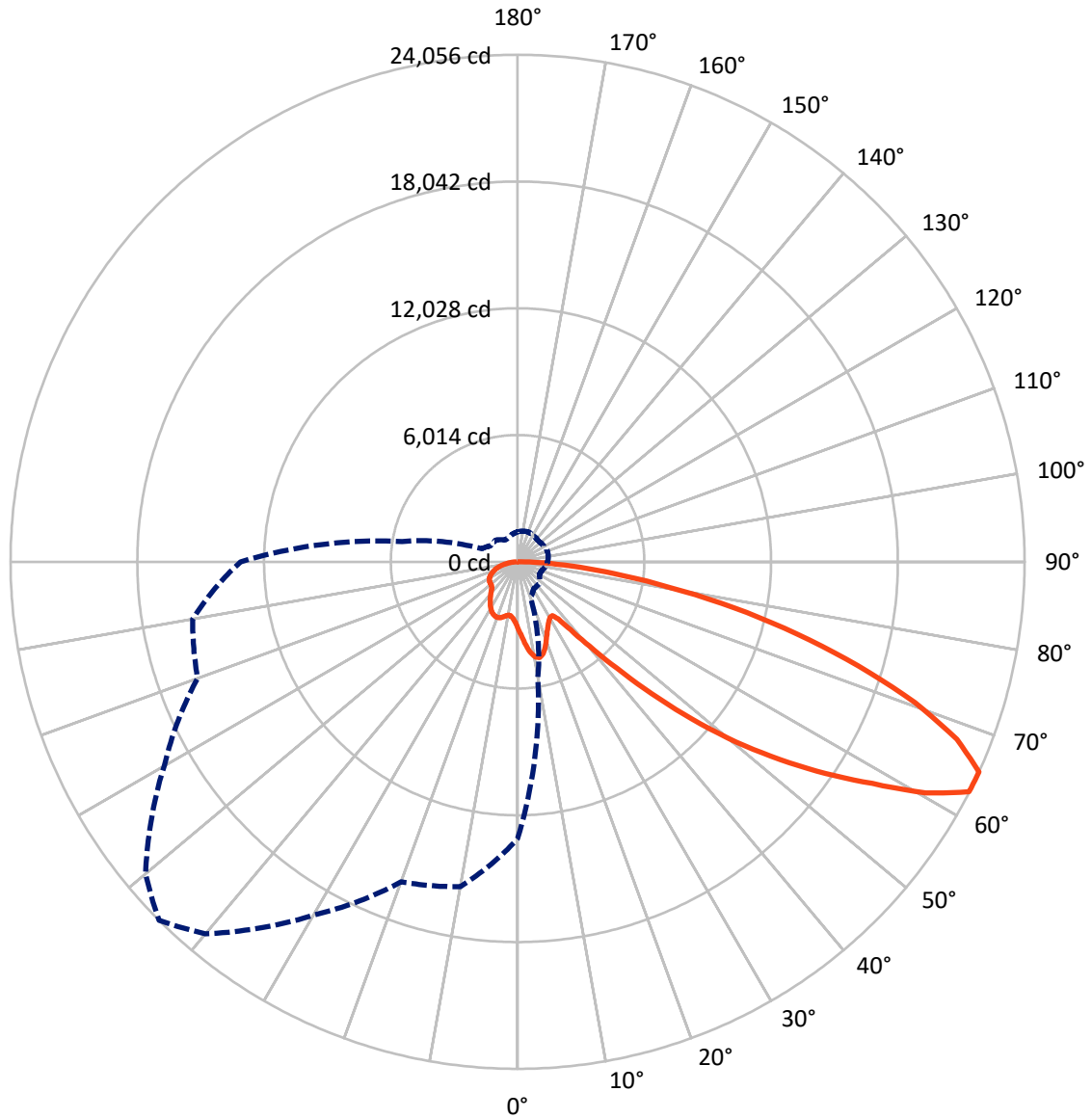
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P966115
CATALOG NUMBER: NAV-SB4B-730-U-SLR

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5857.9	0.0	5857.9
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	17191.2	0.0	17191.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	23049.2	0.0	23049.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.4	1.4
10°-20°	987.0	4.3
20°-30°	1524.6	6.6
30°-40°	1932.0	8.4
40°-50°	2913.9	12.6
50°-60°	4707.9	20.4
60°-70°	5869.2	25.5
70°-80°	3848.7	16.7
80°-90°	951.5	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°	23049.2	100.0
0°-180°	23049.2	100.0

Coefficient of Utilization



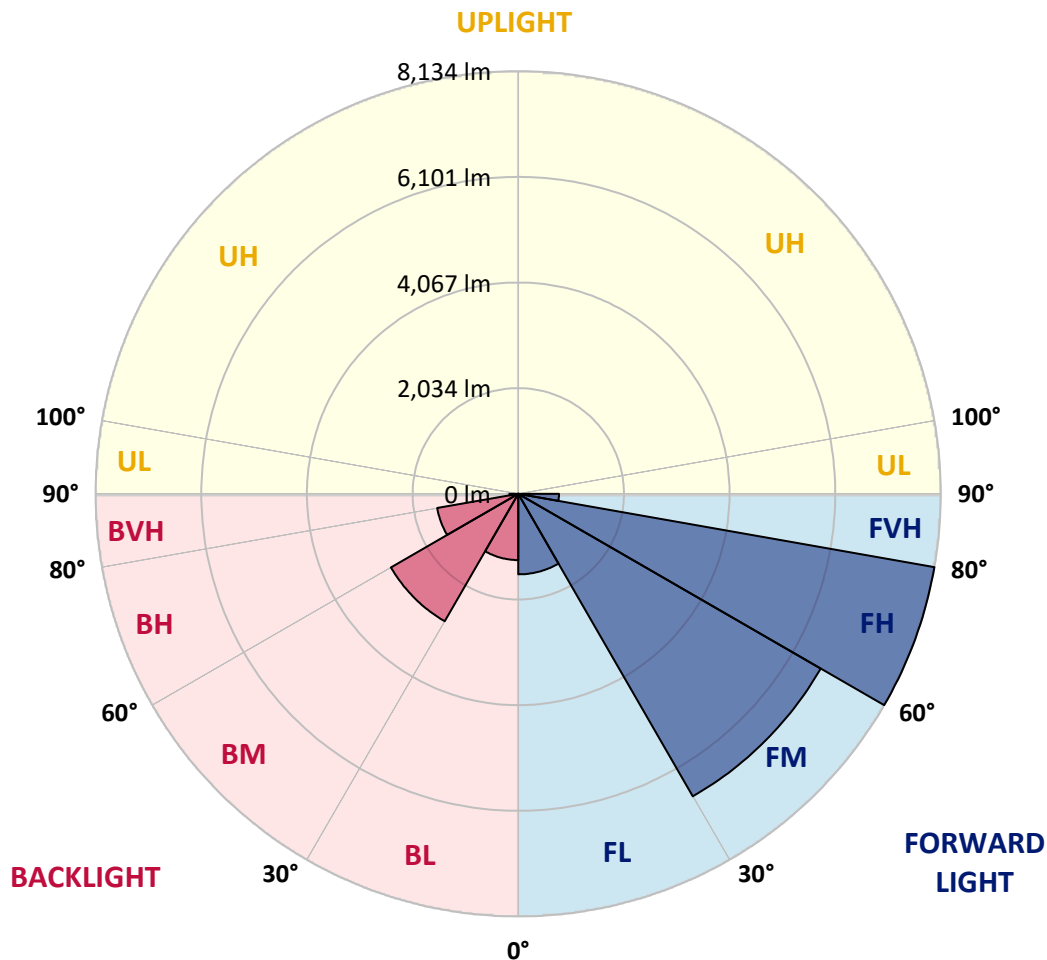
REPORT NUMBER: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.3	6.7			
FM (30°-60°)	6722.9	29.2			
FH (60°-80°)	8134.1	35.3			G4/12000
FVH (80°-90°)	783.8	3.4			G5
BL (0°-30°)	1275.6	5.5	B3/2500		
BM (30°-60°)	2830.9	12.3	B3/5000		
BH (60°-80°)	1583.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	167.7	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



REPORT NUMBER: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5
2.5°	3408.4	3382.3	3356.2	3328.3	3300.6	3272.6	3244.6	3217.9	3191.1	3165.2	3136.4
5°	3665.1	3607.3	3549.6	3491.9	3434.4	3376.4	3318.4	3264.3	3210.2	3159.2	3108.6
7.5°	3922.9	3827.6	3732.3	3644.3	3556.2	3470.4	3384.8	3309.2	3233.7	3164.0	3098.7
10°	4120.5	4000.1	3879.5	3763.1	3646.8	3542.7	3438.5	3349.2	3259.7	3173.7	3103.5
12.5°	4241.6	4109.1	3976.8	3845.0	3713.1	3590.3	3467.5	3366.4	3265.3	3174.9	3109.6
15°	4315.1	4177.1	4039.0	3896.0	3753.0	3611.6	3470.1	3353.1	3236.1	3136.0	3083.7
17.5°	4356.5	4216.5	4076.5	3920.5	3764.4	3600.2	3436.0	3295.4	3154.6	3036.9	3004.7
20°	4402.1	4256.6	4111.1	3939.6	3768.1	3569.2	3370.1	3195.7	3021.3	2884.2	2875.7
22.5°	4455.0	4306.3	4157.6	3965.3	3772.9	3530.9	3288.9	3078.9	2868.8	2712.8	2729.5
25°	4523.1	4377.4	4231.8	4012.1	3792.2	3493.2	3194.4	2948.3	2702.4	2542.5	2587.5
27.5°	4615.6	4476.7	4337.6	4085.0	3832.3	3468.1	3103.8	2829.0	2554.3	2408.8	2463.5
30°	4740.2	4605.9	4471.8	4179.5	3887.3	3456.2	3025.0	2729.3	2433.7	2311.4	2354.3
32.5°	4887.4	4754.5	4621.6	4278.1	3934.7	3441.6	2948.3	2643.4	2338.1	2239.6	2258.8
35°	5066.2	4939.0	4811.6	4390.6	3969.5	3414.2	2859.0	2558.8	2258.5	2176.4	2168.5
37.5°	5367.2	5205.0	5042.7	4516.5	3990.1	3367.1	2744.0	2459.3	2174.6	2102.8	2073.9
40°	5822.0	5585.6	5349.2	4676.3	4003.1	3302.2	2601.4	2340.6	2079.7	2014.6	1970.3
42.5°	6425.3	6084.0	5742.8	4885.3	4027.8	3235.4	2443.1	2209.6	1976.1	1916.1	1860.2
45°	7170.2	6709.9	6249.5	5160.4	4071.3	3173.2	2275.3	2070.5	1865.7	1804.8	1750.7
47.5°	8101.8	7453.9	6805.9	5453.5	4101.1	3121.9	2142.8	1960.4	1778.1	1699.7	1653.1
50°	9322.9	8346.2	7369.3	5725.4	4081.7	3066.0	2050.3	1887.3	1724.4	1621.2	1567.1
52.5°	10724.6	9283.4	7842.2	5902.1	3961.8	2971.5	1981.2	1839.2	1697.2	1578.6	1503.0
55°	12216.9	10114.3	8011.8	5863.1	3714.3	2814.9	1915.3	1804.3	1693.2	1582.9	1468.9
57.5°	13574.2	10703.2	7832.2	5589.2	3346.4	2594.0	1841.3	1762.9	1684.5	1587.2	1448.5
60°	14394.5	10850.3	7306.1	5079.5	2853.0	2307.2	1761.4	1699.7	1637.9	1573.8	1429.3
62.5°	13977.9	10230.7	6483.4	4390.3	2297.2	1963.9	1630.7	1589.7	1548.9	1541.0	1406.9
65°	13144.3	9353.9	5563.6	3687.1	1810.7	1655.2	1499.6	1480.3	1460.9	1461.9	1359.8
67.5°	12027.1	8310.5	4593.8	2998.2	1402.5	1358.4	1314.2	1324.9	1335.7	1333.0	1275.6
70°	10685.1	7172.0	3658.9	2360.7	1062.4	1075.0	1087.5	1137.6	1187.7	1187.7	1168.8
72.5°	9085.7	5937.8	2790.0	1804.7	819.5	857.5	895.7	966.8	1037.7	1049.6	1049.8
75°	7062.6	4523.0	1983.4	1309.8	636.3	670.9	705.4	784.9	864.5	919.4	914.8
77.5°	5046.1	3165.7	1285.2	887.5	489.8	513.3	537.0	614.2	691.5	782.1	779.6
80°	3302.7	2039.5	776.5	571.8	367.3	377.0	386.7	452.2	517.5	625.8	625.4
82.5°	1919.8	1180.5	441.3	351.8	262.5	264.1	266.1	314.3	362.4	454.9	460.0
85°	844.7	530.9	217.5	188.0	158.7	157.8	156.9	192.2	227.4	296.1	302.9
87.5°	261.5	173.9	86.3	78.0	69.6	68.7	67.9	82.2	96.7	125.3	133.8
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: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5
2.5°	3113.0	3089.8	3068.7	3047.8	3029.5	3011.1	2992.6	2974.2	2960.0	2945.6	2934.2
5°	3064.6	3020.5	2983.5	2946.7	2914.1	2881.5	2851.9	2822.2	2799.5	2776.6	2760.7
7.5°	3040.0	2981.5	2932.9	2884.2	2843.2	2802.1	2766.0	2729.8	2702.7	2675.7	2656.7
10°	3041.8	2980.0	2931.3	2882.7	2838.5	2794.3	2753.6	2712.8	2680.4	2648.0	2626.8
12.5°	3059.0	3008.7	2976.3	2944.2	2909.5	2874.9	2832.7	2790.6	2749.3	2707.9	2680.6
15°	3059.5	3035.4	3039.8	3044.1	3035.2	3026.2	2989.6	2952.9	2894.1	2835.3	2793.6
17.5°	3013.5	3022.3	3075.3	3128.4	3156.6	3184.7	3155.2	3125.6	3047.7	2969.7	2908.4
20°	2917.0	2958.5	3050.5	3142.8	3201.7	3260.6	3247.1	3233.4	3144.2	3055.1	2980.0
22.5°	2790.6	2851.8	2956.8	3062.2	3139.0	3215.6	3223.9	3232.1	3147.0	3061.8	2984.5
25°	2658.0	2728.5	2823.1	2917.7	2993.2	3068.7	3096.9	3125.0	3055.2	2985.5	2916.7
27.5°	2531.5	2599.7	2677.4	2755.0	2815.6	2876.1	2907.5	2939.0	2889.3	2839.7	2786.3
30°	2408.3	2462.6	2527.0	2591.5	2641.7	2692.1	2717.7	2743.2	2705.4	2667.4	2629.2
32.5°	2290.8	2322.8	2374.2	2425.8	2473.9	2522.2	2550.5	2579.0	2544.2	2509.3	2478.8
35°	2177.3	2186.1	2225.5	2264.6	2312.3	2360.1	2394.1	2428.2	2403.3	2378.7	2350.4
37.5°	2064.1	2054.4	2082.7	2110.8	2158.3	2206.0	2248.0	2290.2	2278.7	2267.3	2241.4
40°	1948.2	1926.3	1946.6	1966.9	2012.8	2058.8	2107.2	2155.8	2158.5	2161.2	2139.2
42.5°	1831.1	1801.8	1818.4	1835.1	1878.5	1922.2	1974.6	2026.8	2040.8	2054.8	2036.2
45°	1722.3	1693.9	1707.9	1721.9	1763.3	1804.6	1858.8	1913.1	1933.2	1953.2	1936.4
47.5°	1629.2	1605.4	1618.6	1631.6	1672.1	1712.5	1766.0	1819.5	1842.5	1865.7	1854.0
50°	1545.9	1524.9	1545.3	1565.9	1604.0	1642.2	1690.0	1738.0	1767.6	1797.3	1796.6
52.5°	1482.0	1461.2	1492.1	1522.7	1557.7	1592.6	1637.2	1682.0	1717.2	1752.3	1758.7
55°	1435.8	1402.9	1446.6	1490.1	1527.8	1565.5	1604.6	1643.7	1680.9	1718.3	1727.0
57.5°	1400.4	1352.2	1399.1	1446.1	1490.4	1534.6	1573.3	1612.1	1649.6	1687.2	1696.0
60°	1366.9	1304.4	1345.6	1386.7	1437.6	1488.4	1527.7	1567.1	1604.8	1642.5	1652.2
62.5°	1328.8	1250.9	1277.0	1303.2	1362.4	1421.8	1463.7	1505.7	1540.3	1574.7	1584.1
65°	1276.7	1193.7	1203.8	1213.8	1277.3	1340.9	1381.0	1421.2	1451.6	1481.9	1491.6
67.5°	1206.5	1137.4	1134.3	1131.1	1189.7	1248.4	1286.5	1324.5	1350.7	1377.0	1386.4
70°	1119.6	1070.5	1059.5	1048.6	1100.2	1151.8	1184.6	1217.4	1241.2	1264.8	1273.9
72.5°	1016.2	982.5	966.4	950.5	991.1	1031.6	1061.3	1090.9	1114.2	1137.4	1148.1
75°	889.0	862.9	847.6	832.1	862.3	892.5	919.3	946.2	967.4	988.5	999.7
77.5°	758.8	738.0	722.4	706.8	731.4	755.8	779.0	802.1	824.3	846.4	856.9
80°	608.0	590.5	577.5	564.4	584.8	605.1	624.5	644.0	660.9	677.6	691.6
82.5°	451.4	442.9	433.7	424.5	422.7	421.1	414.2	407.4	443.4	479.4	503.1
85°	293.8	284.6	274.3	263.9	255.1	246.3	227.4	208.6	242.3	276.0	305.2
87.5°	130.2	126.5	124.5	122.6	122.2	121.9	107.5	93.1	107.1	121.4	133.1
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: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5
2.5°	2922.6	2913.6	2904.5	2896.3	2887.9	2877.6	2887.9	2896.3	2904.5	2913.6	2922.6
5°	2744.7	2733.5	2722.1	2713.5	2704.9	2696.4	2704.9	2713.5	2722.1	2733.5	2744.7
7.5°	2637.7	2624.7	2611.8	2604.0	2596.4	2590.6	2596.4	2604.0	2611.8	2624.7	2637.7
10°	2605.3	2593.0	2580.8	2574.3	2567.6	2565.0	2567.6	2574.3	2580.8	2593.0	2605.3
12.5°	2653.2	2639.5	2625.8	2620.2	2614.7	2613.6	2614.7	2620.2	2625.8	2639.5	2653.2
15°	2752.0	2733.0	2714.0	2706.7	2699.4	2698.8	2699.4	2706.7	2714.0	2733.0	2752.0
17.5°	2847.1	2819.0	2790.6	2781.3	2772.0	2770.6	2772.0	2781.3	2790.6	2819.0	2847.1
20°	2905.0	2868.8	2832.6	2821.0	2809.4	2805.8	2809.4	2821.0	2832.6	2868.8	2905.0
22.5°	2907.0	2869.0	2830.7	2817.9	2805.2	2799.7	2805.2	2817.9	2830.7	2869.0	2907.0
25°	2848.2	2815.1	2782.1	2770.1	2758.2	2751.1	2758.2	2770.1	2782.1	2815.1	2848.2
27.5°	2732.9	2710.7	2688.5	2682.9	2677.5	2675.7	2677.5	2682.9	2688.5	2710.7	2732.9
30°	2590.8	2579.5	2568.0	2568.0	2568.0	2569.9	2568.0	2568.0	2568.0	2579.5	2590.8
32.5°	2448.2	2440.8	2433.5	2434.4	2435.5	2437.3	2435.5	2434.4	2433.5	2440.8	2448.2
35°	2322.3	2311.1	2299.9	2297.4	2295.0	2293.7	2295.0	2297.4	2299.9	2311.1	2322.3
37.5°	2215.3	2194.8	2174.3	2163.6	2152.7	2146.7	2152.7	2163.6	2174.3	2194.8	2215.3
40°	2117.2	2087.3	2057.6	2037.4	2017.5	2005.5	2017.5	2037.4	2057.6	2087.3	2117.2
42.5°	2017.7	1980.6	1943.5	1914.2	1884.9	1865.7	1884.9	1914.2	1943.5	1980.6	2017.7
45°	1919.8	1877.4	1835.1	1800.6	1766.2	1744.0	1766.2	1800.6	1835.1	1877.4	1919.8
47.5°	1842.3	1804.6	1766.9	1735.0	1703.3	1682.0	1703.3	1735.0	1766.9	1804.6	1842.3
50°	1796.1	1766.0	1735.7	1706.3	1676.9	1656.5	1676.9	1706.3	1735.7	1766.0	1796.1
52.5°	1764.9	1740.4	1715.8	1689.4	1663.2	1644.3	1663.2	1689.4	1715.8	1740.4	1764.9
55°	1735.7	1714.4	1693.0	1669.8	1646.8	1629.7	1646.8	1669.8	1693.0	1714.4	1735.7
57.5°	1704.9	1683.3	1661.6	1638.8	1615.7	1598.1	1615.7	1638.8	1661.6	1683.3	1704.9
60°	1661.9	1640.8	1619.8	1596.1	1572.6	1554.3	1572.6	1596.1	1619.8	1640.8	1661.9
62.5°	1593.5	1574.4	1555.3	1530.5	1505.7	1483.8	1505.7	1530.5	1555.3	1574.4	1593.5
65°	1501.0	1482.7	1464.3	1440.2	1416.2	1397.4	1416.2	1440.2	1464.3	1482.7	1501.0
67.5°	1395.6	1378.7	1361.9	1339.6	1317.1	1300.1	1317.1	1339.6	1361.9	1378.7	1395.6
70°	1282.9	1269.2	1255.4	1234.0	1212.6	1193.1	1212.6	1234.0	1255.4	1269.2	1282.9
72.5°	1158.8	1147.4	1135.9	1115.5	1095.2	1076.4	1095.2	1115.5	1135.9	1147.4	1158.8
75°	1011.0	1005.3	999.7	982.6	965.4	947.4	965.4	982.6	999.7	1005.3	1011.0
77.5°	867.4	859.7	851.6	834.4	817.0	802.7	817.0	834.4	851.6	859.7	867.4
80°	705.4	702.0	698.7	675.5	652.1	625.1	652.1	675.5	698.7	702.0	705.4
82.5°	526.6	525.2	523.6	504.0	484.3	467.0	484.3	504.0	523.6	525.2	526.6
85°	334.5	332.0	329.6	314.3	299.0	283.4	299.0	314.3	329.6	332.0	334.5
87.5°	144.9	142.1	138.9	131.1	123.1	115.5	123.1	131.1	138.9	142.1	144.9
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: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5
2.5°	2934.2	2945.6	2960.0	2974.2	2992.6	3011.1	3029.5	3047.8	3068.7	3089.8	3113.0
5°	2760.7	2776.6	2799.5	2822.2	2851.9	2881.5	2914.1	2946.7	2983.5	3020.5	3064.6
7.5°	2656.7	2675.7	2702.7	2729.8	2766.0	2802.1	2843.2	2884.2	2932.9	2981.5	3040.0
10°	2626.8	2648.0	2680.4	2712.8	2753.6	2794.3	2838.5	2882.7	2931.3	2980.0	3041.8
12.5°	2680.6	2707.9	2749.3	2790.6	2832.7	2874.9	2909.5	2944.2	2976.3	3008.7	3059.0
15°	2793.6	2835.3	2894.1	2952.9	2989.6	3026.2	3035.2	3044.1	3039.8	3035.4	3059.5
17.5°	2908.4	2969.7	3047.7	3125.6	3155.2	3184.7	3156.6	3128.4	3075.3	3022.3	3013.5
20°	2980.0	3055.1	3144.2	3233.4	3247.1	3260.6	3201.7	3142.8	3050.5	2958.5	2917.0
22.5°	2984.5	3061.8	3147.0	3232.1	3223.9	3215.6	3139.0	3062.2	2956.8	2851.8	2790.6
25°	2916.7	2985.5	3055.2	3125.0	3096.9	3068.7	2993.2	2917.7	2823.1	2728.5	2658.0
27.5°	2786.3	2839.7	2889.3	2939.0	2907.5	2876.1	2815.6	2755.0	2677.4	2599.7	2531.5
30°	2629.2	2667.4	2705.4	2743.2	2717.7	2692.1	2641.7	2591.5	2527.0	2462.6	2408.3
32.5°	2478.8	2509.3	2544.2	2579.0	2550.5	2522.2	2473.9	2425.8	2374.2	2322.8	2290.8
35°	2350.4	2378.7	2403.3	2428.2	2394.1	2360.1	2312.3	2264.6	2225.5	2186.1	2177.3
37.5°	2241.4	2267.3	2278.7	2290.2	2248.0	2206.0	2158.3	2110.8	2082.7	2054.4	2064.1
40°	2139.2	2161.2	2158.5	2155.8	2107.2	2058.8	2012.8	1966.9	1946.6	1926.3	1948.2
42.5°	2036.2	2054.8	2040.8	2026.8	1974.6	1922.2	1878.5	1835.1	1818.4	1801.8	1831.1
45°	1936.4	1953.2	1933.2	1913.1	1858.8	1804.6	1763.3	1721.9	1707.9	1693.9	1722.3
47.5°	1854.0	1865.7	1842.5	1819.5	1766.0	1712.5	1672.1	1631.6	1618.6	1605.4	1629.2
50°	1796.6	1797.3	1767.6	1738.0	1690.0	1642.2	1604.0	1565.9	1545.3	1524.9	1545.9
52.5°	1758.7	1752.3	1717.2	1682.0	1637.2	1592.6	1557.7	1522.7	1492.1	1461.2	1482.0
55°	1727.0	1718.3	1680.9	1643.7	1604.6	1565.5	1527.8	1490.1	1446.6	1402.9	1435.8
57.5°	1696.0	1687.2	1649.6	1612.1	1573.3	1534.6	1490.4	1446.1	1399.1	1352.2	1400.4
60°	1652.2	1642.5	1604.8	1567.1	1527.7	1488.4	1437.6	1386.7	1345.6	1304.4	1366.9
62.5°	1584.1	1574.7	1540.3	1505.7	1463.7	1421.8	1362.4	1303.2	1277.0	1250.9	1328.8
65°	1491.6	1481.9	1451.6	1421.2	1381.0	1340.9	1277.3	1213.8	1203.8	1193.7	1276.7
67.5°	1386.4	1377.0	1350.7	1324.5	1286.5	1248.4	1189.7	1131.1	1134.3	1137.4	1206.5
70°	1273.9	1264.8	1241.2	1217.4	1184.6	1151.8	1100.2	1048.6	1059.5	1070.5	1119.6
72.5°	1148.1	1137.4	1114.2	1090.9	1061.3	1031.6	991.1	950.5	966.4	982.5	1016.2
75°	999.7	988.5	967.4	946.2	919.3	892.5	862.3	832.1	847.6	862.9	889.0
77.5°	856.9	846.4	824.3	802.1	779.0	755.8	731.4	706.8	722.4	738.0	758.8
80°	691.6	677.6	660.9	644.0	624.5	605.1	584.8	564.4	577.5	590.5	608.0
82.5°	503.1	479.4	443.4	407.4	414.2	421.1	422.7	424.5	433.7	442.9	451.4
85°	305.2	276.0	242.3	208.6	227.4	246.3	255.1	263.9	274.3	284.6	293.8
87.5°	133.1	121.4	107.1	93.1	107.5	121.9	122.2	122.6	124.5	126.5	130.2
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: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5
2.5°	3136.4	3165.2	3191.1	3217.9	3244.6	3272.6	3300.6	3328.3	3356.2	3382.3	3408.4
5°	3108.6	3159.2	3210.2	3264.3	3318.4	3376.4	3434.4	3491.9	3549.6	3607.3	3665.1
7.5°	3098.7	3164.0	3233.7	3309.2	3384.8	3470.4	3556.2	3644.3	3732.3	3827.6	3922.9
10°	3103.5	3173.7	3259.7	3349.2	3438.5	3542.7	3646.8	3763.1	3879.5	4000.1	4120.5
12.5°	3109.6	3174.9	3265.3	3366.4	3467.5	3590.3	3713.1	3845.0	3976.8	4109.1	4241.6
15°	3083.7	3136.0	3236.1	3353.1	3470.1	3611.6	3753.0	3896.0	4039.0	4177.1	4315.1
17.5°	3004.7	3036.9	3154.6	3295.4	3436.0	3600.2	3764.4	3920.5	4076.5	4216.5	4356.5
20°	2875.7	2884.2	3021.3	3195.7	3370.1	3569.2	3768.1	3939.6	4111.1	4256.6	4402.1
22.5°	2729.5	2712.8	2868.8	3078.9	3288.9	3530.9	3772.9	3965.3	4157.6	4306.3	4455.0
25°	2587.5	2542.5	2702.4	2948.3	3194.4	3493.2	3792.2	4012.1	4231.8	4377.4	4523.1
27.5°	2463.5	2408.8	2554.3	2829.0	3103.8	3468.1	3832.3	4085.0	4337.6	4476.7	4615.6
30°	2354.3	2311.4	2433.7	2729.3	3025.0	3456.2	3887.3	4179.5	4471.8	4605.9	4740.2
32.5°	2258.8	2239.6	2338.1	2643.4	2948.3	3441.6	3934.7	4278.1	4621.6	4754.5	4887.4
35°	2168.5	2176.4	2258.5	2558.8	2859.0	3414.2	3969.5	4390.6	4811.6	4939.0	5066.2
37.5°	2073.9	2102.8	2174.6	2459.3	2744.0	3367.1	3990.1	4516.5	5042.7	5205.0	5367.2
40°	1970.3	2014.6	2079.7	2340.6	2601.4	3302.2	4003.1	4676.3	5349.2	5585.6	5822.0
42.5°	1860.2	1916.1	1976.1	2209.6	2443.1	3235.4	4027.8	4885.3	5742.8	6084.0	6425.3
45°	1750.7	1804.8	1865.7	2070.5	2275.3	3173.2	4071.3	5160.4	6249.5	6709.9	7170.2
47.5°	1653.1	1699.7	1778.1	1960.4	2142.8	3121.9	4101.1	5453.5	6805.9	7453.9	8101.8
50°	1567.1	1621.2	1724.4	1887.3	2050.3	3066.0	4081.7	5725.4	7369.3	8346.2	9322.9
52.5°	1503.0	1578.6	1697.2	1839.2	1981.2	2971.5	3961.8	5902.1	7842.2	9283.4	10724.6
55°	1468.9	1582.9	1693.2	1804.3	1915.3	2814.9	3714.3	5863.1	8011.8	10114.3	12216.9
57.5°	1448.5	1587.2	1684.5	1762.9	1841.3	2594.0	3346.4	5589.2	7832.2	10703.2	13574.2
60°	1429.3	1573.8	1637.9	1699.7	1761.4	2307.2	2853.0	5079.5	7306.1	10850.3	14394.5
62.5°	1406.9	1541.0	1548.9	1589.7	1630.7	1963.9	2297.2	4390.3	6483.4	10230.7	13977.9
65°	1359.8	1461.9	1460.9	1480.3	1499.6	1655.2	1810.7	3687.1	5563.6	9353.9	13144.3
67.5°	1275.6	1333.0	1335.7	1324.9	1314.2	1358.4	1402.5	2998.2	4593.8	8310.5	12027.1
70°	1168.8	1187.7	1187.7	1137.6	1087.5	1075.0	1062.4	2360.7	3658.9	7172.0	10685.1
72.5°	1049.8	1049.6	1037.7	966.8	895.7	857.5	819.5	1804.7	2790.0	5937.8	9085.7
75°	914.8	919.4	864.5	784.9	705.4	670.9	636.3	1309.8	1983.4	4523.0	7062.6
77.5°	779.6	782.1	691.5	614.2	537.0	513.3	489.8	887.5	1285.2	3165.7	5046.1
80°	625.4	625.8	517.5	452.2	386.7	377.0	367.3	571.8	776.5	2039.5	3302.7
82.5°	460.0	454.9	362.4	314.3	266.1	264.1	262.5	351.8	441.3	1180.5	1919.8
85°	302.9	296.1	227.4	192.2	156.9	157.8	158.7	188.0	217.5	530.9	844.7
87.5°	133.8	125.3	96.7	82.2	67.9	68.7	69.6	78.0	86.3	173.9	261.5
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: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5
2.5°	3421.3	3434.4	3452.7	3471.1	3482.0	3493.0	3498.4	3504.0	3501.5	3504.0	3498.4
5°	3710.2	3755.4	3800.2	3845.1	3869.4	3893.7	3908.4	3923.3	3934.5	3923.3	3908.4
7.5°	3996.4	4069.7	4135.8	4201.8	4241.6	4281.3	4302.8	4324.3	4334.6	4324.3	4302.8
10°	4207.4	4294.2	4371.7	4449.1	4496.1	4542.8	4563.7	4584.5	4592.4	4584.5	4563.7
12.5°	4335.6	4429.7	4499.8	4569.6	4603.6	4637.7	4649.1	4660.6	4661.8	4660.6	4649.1
15°	4396.4	4477.5	4521.4	4565.5	4566.7	4567.9	4555.7	4543.5	4529.2	4543.5	4555.7
17.5°	4411.3	4466.2	4467.1	4467.8	4418.5	4369.3	4324.2	4278.9	4247.0	4278.9	4324.2
20°	4421.2	4440.4	4382.6	4324.9	4216.1	4107.4	4028.2	3949.0	3900.4	3949.0	4028.2
22.5°	4429.9	4404.9	4285.2	4165.5	4005.6	3845.7	3746.7	3647.7	3594.0	3647.7	3746.7
25°	4444.1	4365.0	4183.3	4001.6	3807.4	3613.1	3509.0	3405.2	3354.3	3405.2	3509.0
27.5°	4474.2	4332.8	4092.1	3851.5	3636.3	3420.9	3318.5	3216.2	3168.3	3216.2	3318.5
30°	4529.5	4318.7	4022.5	3726.3	3502.0	3277.7	3182.7	3087.7	3043.0	3087.7	3182.7
32.5°	4598.8	4310.2	3975.1	3639.9	3429.1	3218.4	3143.8	3069.2	3036.9	3069.2	3143.8
35°	4713.0	4359.9	4010.6	3661.4	3515.0	3368.7	3351.2	3333.9	3331.2	3333.9	3351.2
37.5°	4951.7	4536.2	4218.8	3901.4	3891.9	3882.4	3961.9	4041.5	4082.9	4041.5	3961.9
40°	5370.2	4918.4	4682.3	4446.2	4612.9	4779.5	4972.9	5166.2	5262.6	5166.2	4972.9
42.5°	5977.0	5528.6	5392.7	5256.7	5620.2	5983.5	6335.3	6687.0	6893.5	6687.0	6335.3
45°	6767.6	6364.7	6304.8	6244.7	6826.9	7409.2	7987.1	8565.2	8916.1	8565.2	7987.1
47.5°	7710.0	7318.2	7306.1	7293.9	8133.8	8973.5	9819.6	10665.6	11162.5	10665.6	9819.6
50°	8839.0	8355.2	8357.2	8359.3	9441.7	10524.2	11641.0	12757.9	13433.1	12757.9	11641.0
52.5°	10138.6	9552.8	9493.6	9434.2	10727.1	12020.1	13402.0	14783.7	15593.1	14783.7	13402.0
55°	11638.0	11059.0	10828.1	10597.2	12036.2	13475.1	15122.4	16769.8	17732.4	16769.8	15122.4
57.5°	13259.0	12943.6	12480.3	12017.2	13470.2	14923.2	16789.1	18654.9	19848.6	18654.9	16789.1
60°	14884.1	15374.0	14798.6	14223.4	15598.4	16973.5	18971.3	20969.0	22259.2	20969.0	18971.3
62.5°	15316.0	16653.9	16589.1	16524.1	17783.8	19043.5	20944.2	22844.8	24037.3	22844.8	20944.2
65°	14400.0	15655.7	15904.2	16152.6	17753.3	19354.3	21197.3	23040.3	24055.5	23040.3	21197.3
67.5°	13221.5	14415.8	14532.3	14648.7	16316.7	17984.4	19835.4	21686.3	22481.7	21686.3	19835.4
70°	11984.1	13283.3	13335.4	13387.5	14879.1	16370.5	17963.4	19556.2	19998.3	19556.2	17963.4
72.5°	10576.5	12067.3	12104.7	12142.0	13309.0	14476.0	15669.0	16861.9	16906.7	16861.9	15669.0
75°	8605.5	10148.3	10286.9	10425.4	11333.3	12241.3	13081.0	13920.8	13695.8	13920.8	13081.0
77.5°	6486.3	7926.7	8125.0	8323.2	9013.3	9703.6	10299.2	10894.8	10508.1	10894.8	10299.2
80°	4514.3	5726.0	5972.4	6218.8	6740.0	7261.1	7573.8	7886.6	7264.5	7886.6	7573.8
82.5°	2748.1	3576.6	3851.8	4127.3	4486.0	4844.8	4975.2	5105.6	4616.8	5105.6	4975.2
85°	1284.3	1723.9	1958.1	2192.3	2487.1	2781.7	2855.8	2929.9	2538.2	2929.9	2855.8
87.5°	409.3	557.0	687.7	818.3	965.7	1113.0	1119.4	1125.7	945.0	1125.7	1119.4
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: P966115
 CATALOG NUMBER: NAV-SB4B-730-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5	3169.5
2.5°	3493.0	3482.0	3471.1	3452.7	3434.4	3421.3	3408.4
5°	3893.7	3869.4	3845.1	3800.2	3755.4	3710.2	3665.1
7.5°	4281.3	4241.6	4201.8	4135.8	4069.7	3996.4	3922.9
10°	4542.8	4496.1	4449.1	4371.7	4294.2	4207.4	4120.5
12.5°	4637.7	4603.6	4569.6	4499.8	4429.7	4335.6	4241.6
15°	4567.9	4566.7	4565.5	4521.4	4477.5	4396.4	4315.1
17.5°	4369.3	4418.5	4467.8	4467.1	4466.2	4411.3	4356.5
20°	4107.4	4216.1	4324.9	4382.6	4440.4	4421.2	4402.1
22.5°	3845.7	4005.6	4165.5	4285.2	4404.9	4429.9	4455.0
25°	3613.1	3807.4	4001.6	4183.3	4365.0	4444.1	4523.1
27.5°	3420.9	3636.3	3851.5	4092.1	4332.8	4474.2	4615.6
30°	3277.7	3502.0	3726.3	4022.5	4318.7	4529.5	4740.2
32.5°	3218.4	3429.1	3639.9	3975.1	4310.2	4598.8	4887.4
35°	3368.7	3515.0	3661.4	4010.6	4359.9	4713.0	5066.2
37.5°	3882.4	3891.9	3901.4	4218.8	4536.2	4951.7	5367.2
40°	4779.5	4612.9	4446.2	4682.3	4918.4	5370.2	5822.0
42.5°	5983.5	5620.2	5256.7	5392.7	5528.6	5977.0	6425.3
45°	7409.2	6826.9	6244.7	6304.8	6364.7	6767.6	7170.2
47.5°	8973.5	8133.8	7293.9	7306.1	7318.2	7710.0	8101.8
50°	10524.2	9441.7	8359.3	8357.2	8355.2	8839.0	9322.9
52.5°	12020.1	10727.1	9434.2	9493.6	9552.8	10138.6	10724.6
55°	13475.1	12036.2	10597.2	10828.1	11059.0	11638.0	12216.9
57.5°	14923.2	13470.2	12017.2	12480.3	12943.6	13259.0	13574.2
60°	16973.5	15598.4	14223.4	14798.6	15374.0	14884.1	14394.5
62.5°	19043.5	17783.8	16524.1	16589.1	16653.9	15316.0	13977.9
65°	19354.3	17753.3	16152.6	15904.2	15655.7	14400.0	13144.3
67.5°	17984.4	16316.7	14648.7	14532.3	14415.8	13221.5	12027.1
70°	16370.5	14879.1	13387.5	13335.4	13283.3	11984.1	10685.1
72.5°	14476.0	13309.0	12142.0	12104.7	12067.3	10576.5	9085.7
75°	12241.3	11333.3	10425.4	10286.9	10148.3	8605.5	7062.6
77.5°	9703.6	9013.3	8323.2	8125.0	7926.7	6486.3	5046.1
80°	7261.1	6740.0	6218.8	5972.4	5726.0	4514.3	3302.7
82.5°	4844.8	4486.0	4127.3	3851.8	3576.6	2748.1	1919.8
85°	2781.7	2487.1	2192.3	1958.1	1723.9	1284.3	844.7
87.5°	1113.0	965.7	818.3	687.7	557.0	409.3	261.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)