

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: P963509

Luminaire Tested: **NAV-SB3A-735-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963509
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-SB3A-735-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13746.3 lumens
Efficiency: N/A
Efficacy: 162.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

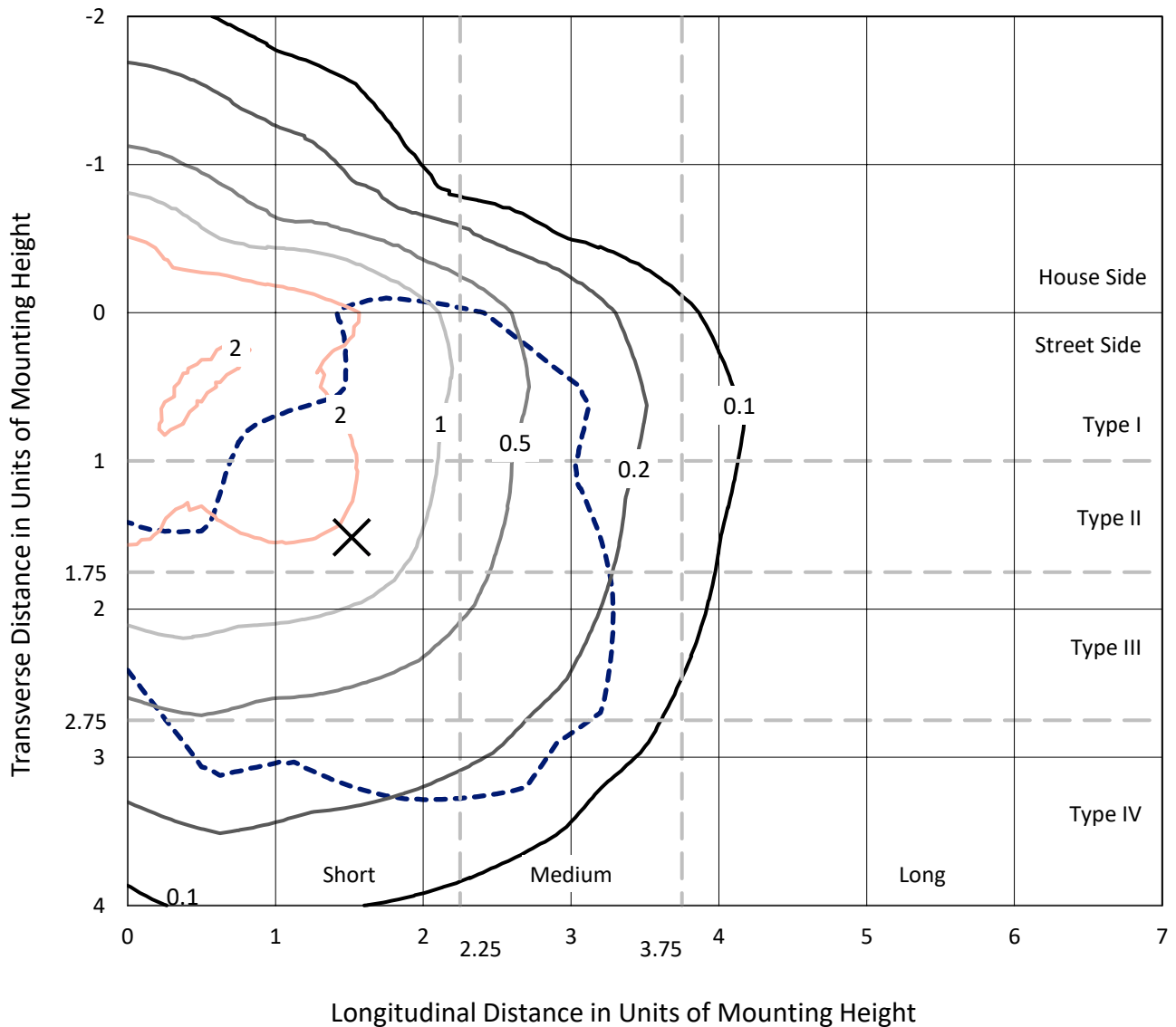
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

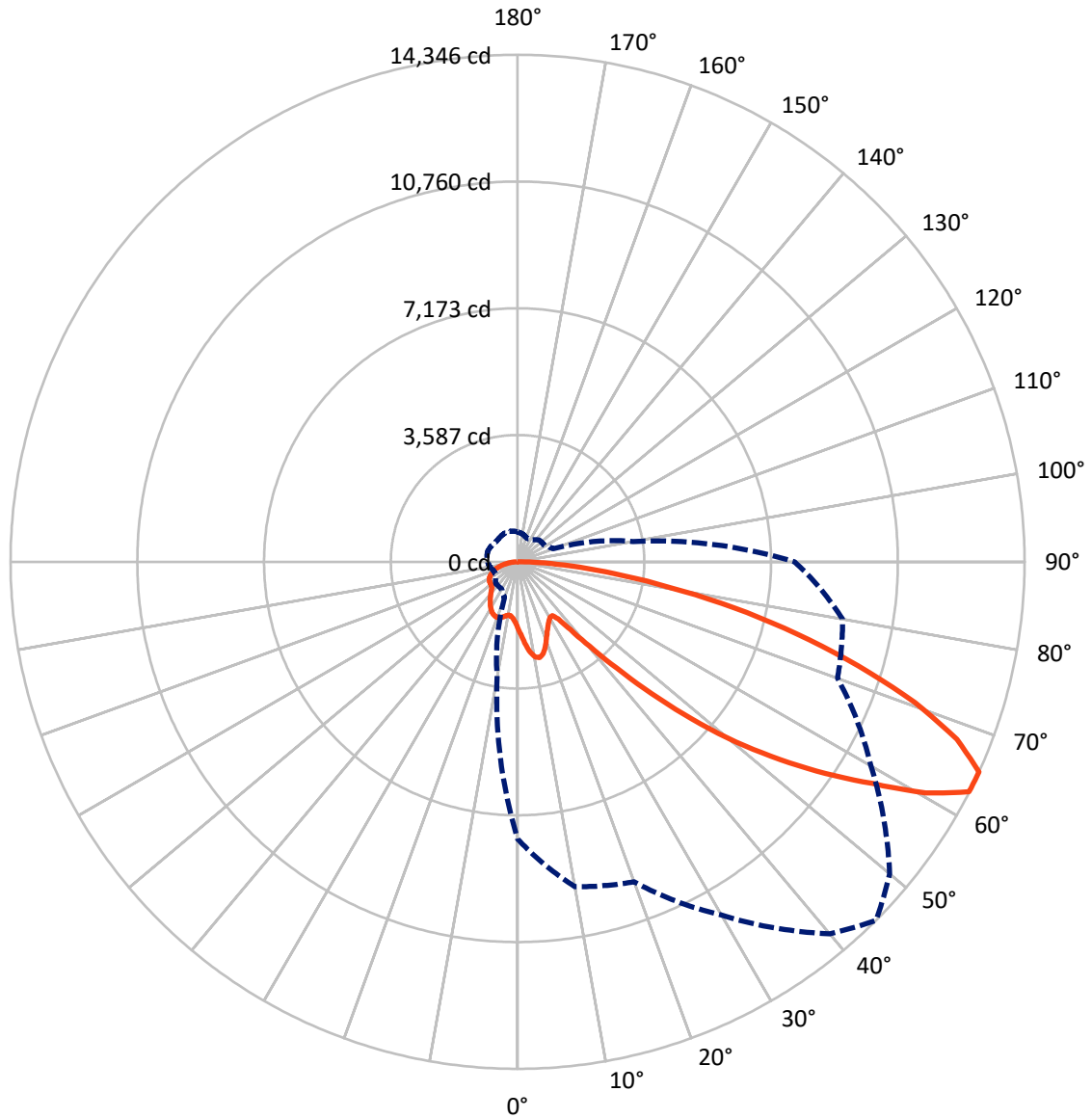
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	3493.6	0.0	3493.6
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	10252.7	0.0	10252.7
	% Fixture	74.6	0.0	74.6
Total	Lumens	13746.3	0.0	13746.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	1.4
10°-20°	588.6	4.3
20°-30°	909.2	6.6
30°-40°	1152.2	8.4
40°-50°	1737.8	12.6
50°-60°	2807.7	20.4
60°-70°	3500.3	25.5
70°-80°	2295.3	16.7
80°-90°	567.5	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°	13746.3	100.0
0°-180°	13746.3	100.0

Coefficient of Utilization



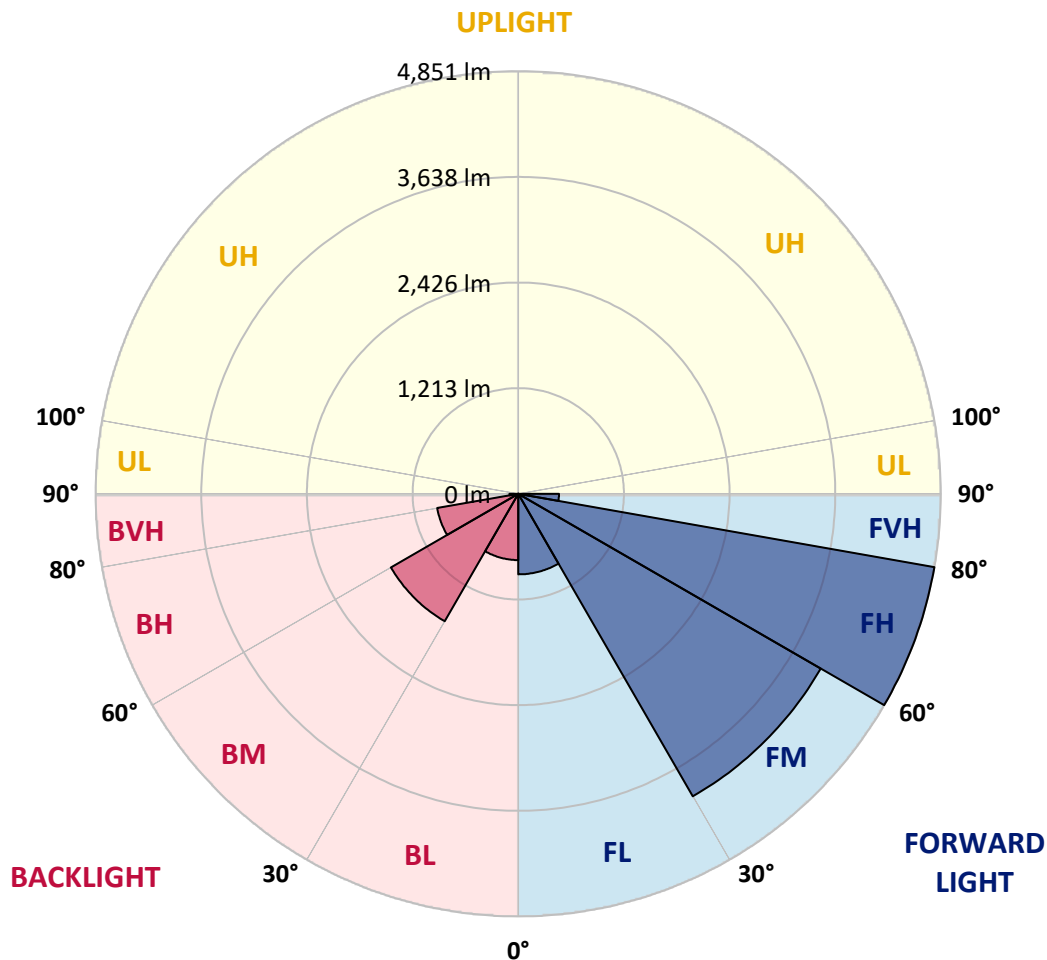
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.6	6.7			
FM (30°-60°)	4009.5	29.2			
FH (60°-80°)	4851.1	35.3			G2/5000
FVH (80°-90°)	467.5	3.4			G3/500
BL (0°-30°)	760.8	5.5	B2/1000		
BM (30°-60°)	1688.3	12.3	B2/2500		
BH (60°-80°)	944.5	6.9	B2/1000		G2/1000
BVH (80°-90°)	100.0	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	2032.8	2040.5	2048.3	2059.1	2070.1	2076.6	2083.2	2086.4	2089.7	2088.2	2089.7
5°	2185.8	2212.7	2239.7	2266.4	2293.1	2307.7	2322.1	2331.0	2339.8	2346.4	2339.8
7.5°	2339.6	2383.4	2427.1	2466.6	2505.9	2529.6	2553.4	2566.2	2578.9	2585.2	2578.9
10°	2457.4	2509.2	2561.1	2607.2	2653.4	2681.4	2709.3	2721.8	2734.2	2738.9	2734.2
12.5°	2529.6	2585.8	2641.8	2683.7	2725.3	2745.6	2765.9	2772.7	2779.5	2780.2	2779.5
15°	2573.5	2622.0	2670.3	2696.5	2722.8	2723.5	2724.2	2717.0	2709.7	2701.2	2709.7
17.5°	2598.2	2630.9	2663.6	2664.1	2664.5	2635.2	2605.8	2578.9	2551.8	2532.9	2551.8
20°	2625.3	2636.7	2648.2	2613.8	2579.3	2514.4	2449.6	2402.4	2355.1	2326.1	2355.1
22.5°	2656.9	2641.9	2627.1	2555.6	2484.3	2388.9	2293.5	2234.5	2175.5	2143.4	2175.5
25°	2697.5	2650.3	2603.2	2494.8	2386.5	2270.7	2154.9	2092.7	2030.8	2000.5	2030.8
27.5°	2752.6	2668.4	2584.0	2440.4	2297.0	2168.6	2040.3	1979.2	1918.2	1889.5	1918.2
30°	2827.1	2701.3	2575.7	2399.0	2222.3	2088.5	1954.8	1898.1	1841.5	1814.8	1841.5
32.5°	2914.8	2742.7	2570.6	2370.7	2170.7	2045.1	1919.4	1874.9	1830.3	1811.2	1830.3
35°	3021.4	2810.8	2600.2	2391.8	2183.7	2096.3	2009.0	1998.6	1988.3	1986.7	1988.3
37.5°	3200.9	2953.1	2705.4	2516.1	2326.8	2321.1	2315.5	2362.8	2410.3	2435.0	2410.3
40°	3472.2	3202.7	2933.2	2792.5	2651.7	2751.1	2850.4	2965.7	3081.0	3138.5	3081.0
42.5°	3832.0	3564.6	3297.2	3216.1	3135.1	3351.7	3568.5	3778.3	3988.1	4111.2	3988.1
45°	4276.2	4036.0	3795.9	3760.1	3724.2	4071.5	4418.8	4763.5	5108.2	5317.5	5108.2
47.5°	4831.8	4598.3	4364.6	4357.3	4350.0	4850.9	5351.7	5856.3	6360.8	6657.2	6360.8
50°	5560.1	5271.5	4982.9	4984.2	4985.4	5630.9	6276.5	6942.5	7608.7	8011.4	7608.7
52.5°	6396.0	6046.6	5697.2	5661.9	5626.4	6397.5	7168.6	7992.7	8816.8	9299.5	8816.8
55°	7286.0	6940.8	6595.5	6457.8	6320.0	7178.3	8036.4	9018.9	10001.3	10575.4	10001.3
57.5°	8095.4	7907.5	7719.4	7443.1	7166.9	8033.4	8900.1	10012.8	11125.6	11837.5	11125.6
60°	8584.8	8876.8	9168.8	8825.8	8482.7	9302.8	10122.8	11314.3	12505.7	13275.2	12505.7
62.5°	8336.3	9134.3	9932.2	9893.5	9854.8	10606.1	11357.3	12490.9	13624.4	14335.5	13624.4
65°	7839.1	8588.0	9336.9	9485.1	9633.3	10587.9	11542.6	12641.8	13740.9	14346.4	13740.9
67.5°	7172.8	7885.1	8597.4	8666.9	8736.4	9731.0	10725.7	11829.6	12933.6	13407.9	12933.6
70°	6372.4	7147.2	7922.0	7953.1	7984.1	8873.7	9763.2	10713.2	11663.1	11926.7	11663.1
72.5°	5418.7	6307.6	7196.8	7219.2	7241.4	7937.4	8633.4	9344.8	10056.3	10082.9	10056.3
75°	4212.0	5132.2	6052.3	6134.9	6217.5	6759.1	7300.6	7801.4	8302.2	8168.0	8302.2
77.5°	3009.4	3868.3	4727.4	4845.6	4963.9	5375.5	5787.2	6142.3	6497.6	6267.0	6497.6
80°	1969.6	2692.3	3414.9	3561.9	3708.8	4019.6	4330.4	4517.0	4703.4	4332.5	4703.4
82.5°	1144.9	1639.0	2133.0	2297.2	2461.4	2675.5	2889.4	2967.2	3045.0	2753.4	3045.0
85°	503.8	766.0	1028.2	1167.8	1307.4	1483.3	1659.0	1703.1	1747.3	1513.8	1747.3
87.5°	155.9	244.1	332.2	410.1	488.0	575.9	663.8	667.6	671.3	563.5	671.3
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°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	2086.4	2083.2	2076.6	2070.1	2059.1	2048.3	2040.5	2032.8	2017.2	2001.6	1984.9
5°	2331.0	2322.1	2307.7	2293.1	2266.4	2239.7	2212.7	2185.8	2151.4	2116.9	2082.5
7.5°	2566.2	2553.4	2529.6	2505.9	2466.6	2427.1	2383.4	2339.6	2282.7	2225.9	2173.4
10°	2721.8	2709.3	2681.4	2653.4	2607.2	2561.1	2509.2	2457.4	2385.6	2313.7	2244.2
12.5°	2772.7	2765.9	2745.6	2725.3	2683.7	2641.8	2585.8	2529.6	2450.7	2371.7	2293.1
15°	2717.0	2724.2	2723.5	2722.8	2696.5	2670.3	2622.0	2573.5	2491.2	2408.9	2323.6
17.5°	2578.9	2605.8	2635.2	2664.5	2664.1	2663.6	2630.9	2598.2	2514.6	2431.2	2338.1
20°	2402.4	2449.6	2514.4	2579.3	2613.8	2648.2	2636.7	2625.3	2538.6	2451.8	2349.5
22.5°	2234.5	2293.5	2388.9	2484.3	2555.6	2627.1	2641.9	2656.9	2568.2	2479.6	2364.9
25°	2092.7	2154.9	2270.7	2386.5	2494.8	2603.2	2650.3	2697.5	2610.7	2523.9	2392.8
27.5°	1979.2	2040.3	2168.6	2297.0	2440.4	2584.0	2668.4	2752.6	2669.8	2586.9	2436.2
30°	1898.1	1954.8	2088.5	2222.3	2399.0	2575.7	2701.3	2827.1	2746.9	2666.9	2492.6
32.5°	1874.9	1919.4	2045.1	2170.7	2370.7	2570.6	2742.7	2914.8	2835.5	2756.3	2551.4
35°	1998.6	2009.0	2096.3	2183.7	2391.8	2600.2	2810.8	3021.4	2945.5	2869.6	2618.5
37.5°	2362.8	2315.5	2321.1	2326.8	2516.1	2705.4	2953.1	3200.9	3104.1	3007.4	2693.5
40°	2965.7	2850.4	2751.1	2651.7	2792.5	2933.2	3202.7	3472.2	3331.1	3190.2	2788.8
42.5°	3778.3	3568.5	3351.7	3135.1	3216.1	3297.2	3564.6	3832.0	3628.4	3424.9	2913.6
45°	4763.5	4418.8	4071.5	3724.2	3760.1	3795.9	4036.0	4276.2	4001.7	3727.1	3077.6
47.5°	5856.3	5351.7	4850.9	4350.0	4357.3	4364.6	4598.3	4831.8	4445.4	4059.0	3252.4
50°	6942.5	6276.5	5630.9	4985.4	4984.2	4982.9	5271.5	5560.1	4977.6	4395.0	3414.6
52.5°	7992.7	7168.6	6397.5	5626.4	5661.9	5697.2	6046.6	6396.0	5536.5	4677.0	3520.0
55°	9018.9	8036.4	7178.3	6320.0	6457.8	6595.5	6940.8	7286.0	6032.0	4778.1	3496.7
57.5°	10012.8	8900.1	8033.4	7166.9	7443.1	7719.4	7907.5	8095.4	6383.3	4671.0	3333.4
60°	11314.3	10122.8	9302.8	8482.7	8825.8	9168.8	8876.8	8584.8	6471.0	4357.3	3029.4
62.5°	12490.9	11357.3	10606.1	9854.8	9893.5	9932.2	9134.3	8336.3	6101.5	3866.6	2618.4
65°	12641.8	11542.6	10587.9	9633.3	9485.1	9336.9	8588.0	7839.1	5578.6	3318.0	2198.9
67.5°	11829.6	10725.7	9731.0	8736.4	8666.9	8597.4	7885.1	7172.8	4956.3	2739.7	1788.1
70°	10713.2	9763.2	8873.7	7984.1	7953.1	7922.0	7147.2	6372.4	4277.3	2182.2	1407.8
72.5°	9344.8	8633.4	7937.4	7241.4	7219.2	7196.8	6307.6	5418.7	3541.3	1663.9	1076.4
75°	7801.4	7300.6	6759.1	6217.5	6134.9	6052.3	5132.2	4212.0	2697.5	1182.8	781.2
77.5°	6142.3	5787.2	5375.5	4963.9	4845.6	4727.4	3868.3	3009.4	1887.9	766.5	529.3
80°	4517.0	4330.4	4019.6	3708.8	3561.9	3414.9	2692.3	1969.6	1216.4	463.1	341.0
82.5°	2967.2	2889.4	2675.5	2461.4	2297.2	2133.0	1639.0	1144.9	704.0	263.1	209.8
85°	1703.1	1659.0	1483.3	1307.4	1167.8	1028.2	766.0	503.8	316.7	129.7	112.1
87.5°	667.6	663.8	575.9	488.0	410.1	332.2	244.1	155.9	103.7	51.5	46.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	1968.4	1951.7	1935.1	1919.1	1903.1	1887.7	1870.5	1856.6	1842.7	1830.1	1817.7
5°	2048.3	2013.6	1979.1	1946.8	1914.5	1884.1	1853.9	1827.7	1801.3	1779.3	1757.4
7.5°	2120.9	2069.8	2018.6	1973.5	1928.5	1886.9	1848.0	1813.0	1778.2	1749.2	1720.2
10°	2174.9	2112.8	2050.7	1997.4	1944.0	1892.8	1850.9	1814.0	1777.2	1748.2	1719.2
12.5°	2214.4	2141.2	2067.9	2007.7	1947.4	1893.5	1854.5	1824.4	1794.4	1775.1	1755.9
15°	2238.3	2153.9	2069.6	1999.8	1930.0	1870.3	1839.1	1824.7	1810.3	1812.9	1815.5
17.5°	2245.1	2147.2	2049.2	1965.3	1881.4	1811.2	1791.9	1797.2	1802.5	1834.1	1865.7
20°	2247.2	2128.6	2009.9	1905.9	1801.8	1720.2	1715.0	1739.7	1764.4	1819.3	1874.3
22.5°	2250.2	2105.8	1961.4	1836.2	1710.9	1617.9	1627.8	1664.3	1700.8	1763.4	1826.2
25°	2261.6	2083.3	1905.1	1758.4	1611.7	1516.3	1543.1	1585.3	1627.3	1683.7	1740.0
27.5°	2285.5	2068.3	1851.0	1687.3	1523.4	1436.5	1469.1	1509.8	1550.4	1596.7	1643.1
30°	2318.3	2061.3	1804.1	1627.7	1451.4	1378.5	1404.1	1436.3	1468.6	1507.1	1545.6
32.5°	2346.6	2052.6	1758.4	1576.4	1394.5	1335.7	1347.1	1366.2	1385.3	1415.9	1446.7
35°	2367.3	2036.2	1705.1	1526.0	1347.0	1298.0	1293.2	1298.5	1303.8	1327.3	1350.5
37.5°	2379.6	2008.1	1636.5	1466.7	1296.9	1254.1	1236.9	1231.0	1225.3	1242.1	1258.8
40°	2387.4	1969.4	1551.5	1395.9	1240.4	1201.5	1175.1	1161.9	1148.8	1160.9	1173.0
42.5°	2402.2	1929.6	1457.0	1317.8	1178.5	1142.8	1109.4	1092.0	1074.6	1084.4	1094.4
45°	2428.0	1892.5	1357.0	1234.8	1112.6	1076.4	1044.2	1027.2	1010.2	1018.5	1026.9
47.5°	2445.9	1861.9	1277.9	1169.2	1060.5	1013.6	985.8	971.7	957.5	965.2	973.0
50°	2434.3	1828.5	1222.8	1125.6	1028.4	966.9	934.6	922.0	909.4	921.6	933.9
52.5°	2362.8	1772.1	1181.6	1096.9	1012.2	941.5	896.4	883.9	871.5	889.8	908.2
55°	2215.2	1678.7	1142.3	1076.0	1009.8	944.0	876.1	856.3	836.7	862.7	888.7
57.5°	1995.8	1547.0	1098.2	1051.3	1004.6	946.6	863.9	835.2	806.5	834.5	862.4
60°	1701.5	1376.0	1050.4	1013.6	976.9	938.6	852.4	815.2	778.0	802.5	827.1
62.5°	1370.0	1171.3	972.5	948.1	923.7	919.0	839.1	792.5	746.0	761.6	777.2
65°	1079.8	987.1	894.3	882.8	871.2	871.9	810.9	761.5	712.0	717.9	723.9
67.5°	836.5	810.2	783.7	790.2	796.5	795.0	760.8	719.6	678.3	676.5	674.6
70°	633.6	641.1	648.6	678.4	708.3	708.3	697.0	667.8	638.5	631.9	625.4
72.5°	488.7	511.5	534.2	576.6	618.9	626.0	626.1	606.0	585.9	576.4	566.8
75°	379.5	400.1	420.7	468.1	515.6	548.4	545.6	530.1	514.7	505.5	496.3
77.5°	292.1	306.2	320.2	366.3	412.4	466.4	464.9	452.5	440.1	430.8	421.6
80°	219.0	224.9	230.6	269.7	308.6	373.2	373.0	362.6	352.2	344.4	336.5
82.5°	156.5	157.5	158.7	187.5	216.2	271.3	274.3	269.3	264.1	258.6	253.2
85°	94.6	94.2	93.6	114.6	135.6	176.6	180.6	175.2	169.7	163.6	157.4
87.5°	41.5	41.0	40.5	49.0	57.7	74.7	79.7	77.6	75.4	74.3	73.1
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: P963509
 CATALOG NUMBER: NAV-SB3A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	1806.8	1795.8	1784.7	1773.9	1765.4	1756.7	1749.9	1743.0	1737.6	1732.2	1727.3
5°	1737.9	1718.5	1700.9	1683.2	1669.6	1656.0	1646.5	1636.9	1630.2	1623.5	1618.3
7.5°	1695.7	1671.2	1649.5	1628.0	1611.8	1595.7	1584.4	1573.1	1565.4	1557.7	1553.0
10°	1692.9	1666.4	1642.2	1617.9	1598.6	1579.2	1566.6	1553.8	1546.5	1539.1	1535.2
12.5°	1735.1	1714.5	1689.4	1664.3	1639.6	1615.0	1598.7	1582.3	1574.1	1566.0	1562.7
15°	1810.2	1804.8	1783.0	1761.2	1726.0	1690.9	1666.1	1641.3	1630.0	1618.6	1614.3
17.5°	1882.5	1899.3	1881.7	1864.2	1817.6	1771.1	1734.6	1698.0	1681.2	1664.3	1658.8
20°	1909.5	1944.6	1936.5	1928.3	1875.1	1822.0	1777.2	1732.5	1710.9	1689.3	1682.4
22.5°	1872.1	1917.8	1922.7	1927.6	1876.8	1826.0	1779.9	1733.7	1711.0	1688.2	1680.6
25°	1785.1	1830.1	1847.0	1863.8	1822.1	1780.5	1739.5	1698.6	1678.8	1659.2	1652.0
27.5°	1679.2	1715.2	1734.0	1752.7	1723.1	1693.5	1661.6	1629.9	1616.6	1603.4	1600.1
30°	1575.5	1605.6	1620.7	1636.0	1613.5	1590.8	1568.0	1545.1	1538.3	1531.6	1531.6
32.5°	1475.4	1504.2	1521.1	1538.1	1517.3	1496.5	1478.4	1460.1	1455.7	1451.3	1451.8
35°	1379.0	1407.5	1427.8	1448.1	1433.4	1418.6	1401.8	1385.1	1378.3	1371.7	1370.1
37.5°	1287.2	1315.6	1340.7	1365.8	1358.9	1352.2	1336.7	1321.2	1308.9	1296.7	1290.3
40°	1200.5	1227.8	1256.8	1285.7	1287.3	1288.9	1275.8	1262.7	1244.9	1227.1	1215.1
42.5°	1120.3	1146.4	1177.6	1208.8	1217.1	1225.5	1214.3	1203.4	1181.2	1159.1	1141.6
45°	1051.5	1076.2	1108.6	1140.9	1152.9	1164.9	1154.9	1144.9	1119.6	1094.4	1073.9
47.5°	997.2	1021.3	1053.2	1085.1	1098.9	1112.6	1105.7	1098.7	1076.2	1053.8	1034.7
50°	956.6	979.4	1007.9	1036.5	1054.2	1071.9	1071.4	1071.2	1053.2	1035.2	1017.6
52.5°	929.1	949.9	976.4	1003.2	1024.1	1045.1	1048.9	1052.6	1037.9	1023.3	1007.6
55°	911.1	933.7	957.0	980.3	1002.4	1024.8	1030.0	1035.2	1022.4	1009.6	995.9
57.5°	888.9	915.2	938.3	961.4	983.9	1006.1	1011.5	1016.8	1003.9	991.0	977.3
60°	857.3	887.6	911.1	934.6	957.0	979.6	985.3	991.2	978.6	966.0	951.9
62.5°	812.5	847.9	873.0	898.0	918.6	939.2	944.7	950.4	938.9	927.5	912.8
65°	761.8	799.7	823.6	847.6	865.7	883.9	889.6	895.2	884.3	873.3	859.0
67.5°	709.5	744.6	767.2	789.9	805.5	821.2	826.8	832.3	822.3	812.2	798.9
70°	656.1	686.9	706.4	726.1	740.3	754.4	759.7	765.1	756.9	748.7	735.9
72.5°	591.1	615.2	632.9	650.7	664.5	678.3	684.7	691.1	684.3	677.4	665.3
75°	514.2	532.3	548.3	564.3	577.0	589.6	596.2	602.9	599.5	596.2	586.0
77.5°	436.2	450.8	464.5	478.4	491.6	504.8	511.1	517.3	512.7	507.9	497.5
80°	348.7	360.9	372.5	384.1	394.1	404.2	412.5	420.7	418.7	416.7	402.8
82.5°	252.2	251.1	247.0	243.0	264.4	286.0	300.0	314.1	313.2	312.2	300.5
85°	152.2	146.9	135.6	124.4	144.5	164.6	182.0	199.5	198.0	196.6	187.5
87.5°	72.9	72.7	64.2	55.5	63.9	72.4	79.4	86.5	84.8	82.8	78.2
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: P963509
 CATALOG NUMBER: NAV-SB3A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	1722.3	1716.2	1722.3	1727.3	1732.2	1737.6	1743.0	1749.9	1756.7	1765.4	1773.9
5°	1613.1	1608.1	1613.1	1618.3	1623.5	1630.2	1636.9	1646.5	1656.0	1669.6	1683.2
7.5°	1548.5	1545.0	1548.5	1553.0	1557.7	1565.4	1573.1	1584.4	1595.7	1611.8	1628.0
10°	1531.4	1529.7	1531.4	1535.2	1539.1	1546.5	1553.8	1566.6	1579.2	1598.6	1617.9
12.5°	1559.3	1558.7	1559.3	1562.7	1566.0	1574.1	1582.3	1598.7	1615.0	1639.6	1664.3
15°	1609.9	1609.6	1609.9	1614.3	1618.6	1630.0	1641.3	1666.1	1690.9	1726.0	1761.2
17.5°	1653.2	1652.3	1653.2	1658.8	1664.3	1681.2	1698.0	1734.6	1771.1	1817.6	1864.2
20°	1675.6	1673.3	1675.6	1682.4	1689.3	1710.9	1732.5	1777.2	1822.0	1875.1	1928.3
22.5°	1673.0	1669.7	1673.0	1680.6	1688.2	1711.0	1733.7	1779.9	1826.0	1876.8	1927.6
25°	1644.9	1640.7	1644.9	1652.0	1659.2	1678.8	1698.6	1739.5	1780.5	1822.1	1863.8
27.5°	1596.8	1595.7	1596.8	1600.1	1603.4	1616.6	1629.9	1661.6	1693.5	1723.1	1752.7
30°	1531.6	1532.7	1531.6	1531.6	1531.6	1538.3	1545.1	1568.0	1590.8	1613.5	1636.0
32.5°	1452.5	1453.6	1452.5	1451.8	1451.3	1455.7	1460.1	1478.4	1496.5	1517.3	1538.1
35°	1368.7	1368.0	1368.7	1370.1	1371.7	1378.3	1385.1	1401.8	1418.6	1433.4	1448.1
37.5°	1283.8	1280.2	1283.8	1290.3	1296.7	1308.9	1321.2	1336.7	1352.2	1358.9	1365.8
40°	1203.1	1196.1	1203.1	1215.1	1227.1	1244.9	1262.7	1275.8	1288.9	1287.3	1285.7
42.5°	1124.1	1112.6	1124.1	1141.6	1159.1	1181.2	1203.4	1214.3	1225.5	1217.1	1208.8
45°	1053.3	1040.2	1053.3	1073.9	1094.4	1119.6	1144.9	1154.9	1164.9	1152.9	1140.9
47.5°	1015.9	1003.2	1015.9	1034.7	1053.8	1076.2	1098.7	1105.7	1112.6	1098.9	1085.1
50°	1000.1	987.9	1000.1	1017.6	1035.2	1053.2	1071.2	1071.4	1071.9	1054.2	1036.5
52.5°	991.9	980.6	991.9	1007.6	1023.3	1037.9	1052.6	1048.9	1045.1	1024.1	1003.2
55°	982.2	971.9	982.2	995.9	1009.6	1022.4	1035.2	1030.0	1024.8	1002.4	980.3
57.5°	963.6	953.0	963.6	977.3	991.0	1003.9	1016.8	1011.5	1006.1	983.9	961.4
60°	937.9	927.0	937.9	951.9	966.0	978.6	991.2	985.3	979.6	957.0	934.6
62.5°	898.0	884.9	898.0	912.8	927.5	938.9	950.4	944.7	939.2	918.6	898.0
65°	844.7	833.4	844.7	859.0	873.3	884.3	895.2	889.6	883.9	865.7	847.6
67.5°	785.6	775.4	785.6	798.9	812.2	822.3	832.3	826.8	821.2	805.5	789.9
70°	723.1	711.6	723.1	735.9	748.7	756.9	765.1	759.7	754.4	740.3	726.1
72.5°	653.1	642.0	653.1	665.3	677.4	684.3	691.1	684.7	678.3	664.5	650.7
75°	575.7	565.1	575.7	586.0	596.2	599.5	602.9	596.2	589.6	577.0	564.3
77.5°	487.3	478.7	487.3	497.5	507.9	512.7	517.3	511.1	504.8	491.6	478.4
80°	388.9	372.8	388.9	402.8	416.7	418.7	420.7	412.5	404.2	394.1	384.1
82.5°	288.8	278.5	288.8	300.5	312.2	313.2	314.1	300.0	286.0	264.4	243.0
85°	178.2	169.0	178.2	187.5	196.6	198.0	199.5	182.0	164.6	144.5	124.4
87.5°	73.4	68.9	73.4	78.2	82.8	84.8	86.5	79.4	72.4	63.9	55.5
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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 CATALOG NUMBER: NAV-SB3A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	1784.7	1795.8	1806.8	1817.7	1830.1	1842.7	1856.6	1870.5	1887.7	1903.1	1919.1
5°	1700.9	1718.5	1737.9	1757.4	1779.3	1801.3	1827.7	1853.9	1884.1	1914.5	1946.8
7.5°	1649.5	1671.2	1695.7	1720.2	1749.2	1778.2	1813.0	1848.0	1886.9	1928.5	1973.5
10°	1642.2	1666.4	1692.9	1719.2	1748.2	1777.2	1814.0	1850.9	1892.8	1944.0	1997.4
12.5°	1689.4	1714.5	1735.1	1755.9	1775.1	1794.4	1824.4	1854.5	1893.5	1947.4	2007.7
15°	1783.0	1804.8	1810.2	1815.5	1812.9	1810.3	1824.7	1839.1	1870.3	1930.0	1999.8
17.5°	1881.7	1899.3	1882.5	1865.7	1834.1	1802.5	1797.2	1791.9	1811.2	1881.4	1965.3
20°	1936.5	1944.6	1909.5	1874.3	1819.3	1764.4	1739.7	1715.0	1720.2	1801.8	1905.9
22.5°	1922.7	1917.8	1872.1	1826.2	1763.4	1700.8	1664.3	1627.8	1617.9	1710.9	1836.2
25°	1847.0	1830.1	1785.1	1740.0	1683.7	1627.3	1585.3	1543.1	1516.3	1611.7	1758.4
27.5°	1734.0	1715.2	1679.2	1643.1	1596.7	1550.4	1509.8	1469.1	1436.5	1523.4	1687.3
30°	1620.7	1605.6	1575.5	1545.6	1507.1	1468.6	1436.3	1404.1	1378.5	1451.4	1627.7
32.5°	1521.1	1504.2	1475.4	1446.7	1415.9	1385.3	1366.2	1347.1	1335.7	1394.5	1576.4
35°	1427.8	1407.5	1379.0	1350.5	1327.3	1303.8	1298.5	1293.2	1298.0	1347.0	1526.0
37.5°	1340.7	1315.6	1287.2	1258.8	1242.1	1225.3	1231.0	1236.9	1254.1	1296.9	1466.7
40°	1256.8	1227.8	1200.5	1173.0	1160.9	1148.8	1161.9	1175.1	1201.5	1240.4	1395.9
42.5°	1177.6	1146.4	1120.3	1094.4	1084.4	1074.6	1092.0	1109.4	1142.8	1178.5	1317.8
45°	1108.6	1076.2	1051.5	1026.9	1018.5	1010.2	1027.2	1044.2	1076.4	1112.6	1234.8
47.5°	1053.2	1021.3	997.2	973.0	965.2	957.5	971.7	985.8	1013.6	1060.5	1169.2
50°	1007.9	979.4	956.6	933.9	921.6	909.4	922.0	934.6	966.9	1028.4	1125.6
52.5°	976.4	949.9	929.1	908.2	889.8	871.5	883.9	896.4	941.5	1012.2	1096.9
55°	957.0	933.7	911.1	888.7	862.7	836.7	856.3	876.1	944.0	1009.8	1076.0
57.5°	938.3	915.2	888.9	862.4	834.5	806.5	835.2	863.9	946.6	1004.6	1051.3
60°	911.1	887.6	857.3	827.1	802.5	778.0	815.2	852.4	938.6	976.9	1013.6
62.5°	873.0	847.9	812.5	777.2	761.6	746.0	792.5	839.1	919.0	923.7	948.1
65°	823.6	799.7	761.8	723.9	717.9	712.0	761.5	810.9	871.9	871.2	882.8
67.5°	767.2	744.6	709.5	674.6	676.5	678.3	719.6	760.8	795.0	796.5	790.2
70°	706.4	686.9	656.1	625.4	631.9	638.5	667.8	697.0	708.3	708.3	678.4
72.5°	632.9	615.2	591.1	566.8	576.4	585.9	606.0	626.1	626.0	618.9	576.6
75°	548.3	532.3	514.2	496.3	505.5	514.7	530.1	545.6	548.4	515.6	468.1
77.5°	464.5	450.8	436.2	421.6	430.8	440.1	452.5	464.9	466.4	412.4	366.3
80°	372.5	360.9	348.7	336.5	344.4	352.2	362.6	373.0	373.2	308.6	269.7
82.5°	247.0	251.1	252.2	253.2	258.6	264.1	269.3	274.3	271.3	216.2	187.5
85°	135.6	146.9	152.2	157.4	163.6	169.7	175.2	180.6	176.6	135.6	114.6
87.5°	64.2	72.7	72.9	73.1	74.3	75.4	77.6	79.7	74.7	57.7	49.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 CATALOG NUMBER: NAV-SB3A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2	1890.2
2.5°	1935.1	1951.7	1968.4	1984.9	2001.6	2017.2	2032.8
5°	1979.1	2013.6	2048.3	2082.5	2116.9	2151.4	2185.8
7.5°	2018.6	2069.8	2120.9	2173.4	2225.9	2282.7	2339.6
10°	2050.7	2112.8	2174.9	2244.2	2313.7	2385.6	2457.4
12.5°	2067.9	2141.2	2214.4	2293.1	2371.7	2450.7	2529.6
15°	2069.6	2153.9	2238.3	2323.6	2408.9	2491.2	2573.5
17.5°	2049.2	2147.2	2245.1	2338.1	2431.2	2514.6	2598.2
20°	2009.9	2128.6	2247.2	2349.5	2451.8	2538.6	2625.3
22.5°	1961.4	2105.8	2250.2	2364.9	2479.6	2568.2	2656.9
25°	1905.1	2083.3	2261.6	2392.8	2523.9	2610.7	2697.5
27.5°	1851.0	2068.3	2285.5	2436.2	2586.9	2669.8	2752.6
30°	1804.1	2061.3	2318.3	2492.6	2666.9	2746.9	2827.1
32.5°	1758.4	2052.6	2346.6	2551.4	2756.3	2835.5	2914.8
35°	1705.1	2036.2	2367.3	2618.5	2869.6	2945.5	3021.4
37.5°	1636.5	2008.1	2379.6	2693.5	3007.4	3104.1	3200.9
40°	1551.5	1969.4	2387.4	2788.8	3190.2	3331.1	3472.2
42.5°	1457.0	1929.6	2402.2	2913.6	3424.9	3628.4	3832.0
45°	1357.0	1892.5	2428.0	3077.6	3727.1	4001.7	4276.2
47.5°	1277.9	1861.9	2445.9	3252.4	4059.0	4445.4	4831.8
50°	1222.8	1828.5	2434.3	3414.6	4395.0	4977.6	5560.1
52.5°	1181.6	1772.1	2362.8	3520.0	4677.0	5536.5	6396.0
55°	1142.3	1678.7	2215.2	3496.7	4778.1	6032.0	7286.0
57.5°	1098.2	1547.0	1995.8	3333.4	4671.0	6383.3	8095.4
60°	1050.4	1376.0	1701.5	3029.4	4357.3	6471.0	8584.8
62.5°	972.5	1171.3	1370.0	2618.4	3866.6	6101.5	8336.3
65°	894.3	987.1	1079.8	2198.9	3318.0	5578.6	7839.1
67.5°	783.7	810.2	836.5	1788.1	2739.7	4956.3	7172.8
70°	648.6	641.1	633.6	1407.8	2182.2	4277.3	6372.4
72.5°	534.2	511.5	488.7	1076.4	1663.9	3541.3	5418.7
75°	420.7	400.1	379.5	781.2	1182.8	2697.5	4212.0
77.5°	320.2	306.2	292.1	529.3	766.5	1887.9	3009.4
80°	230.6	224.9	219.0	341.0	463.1	1216.4	1969.6
82.5°	158.7	157.5	156.5	209.8	263.1	704.0	1144.9
85°	93.6	94.2	94.6	112.1	129.7	316.7	503.8
87.5°	40.5	41.0	41.5	46.5	51.5	103.7	155.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)