

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: P965617

Luminaire Tested: **NAV-SB4A-735-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965617
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-SB4A-735-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 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: 18361.9 lumens
Efficiency: N/A
Efficacy: 161.1 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): 114
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

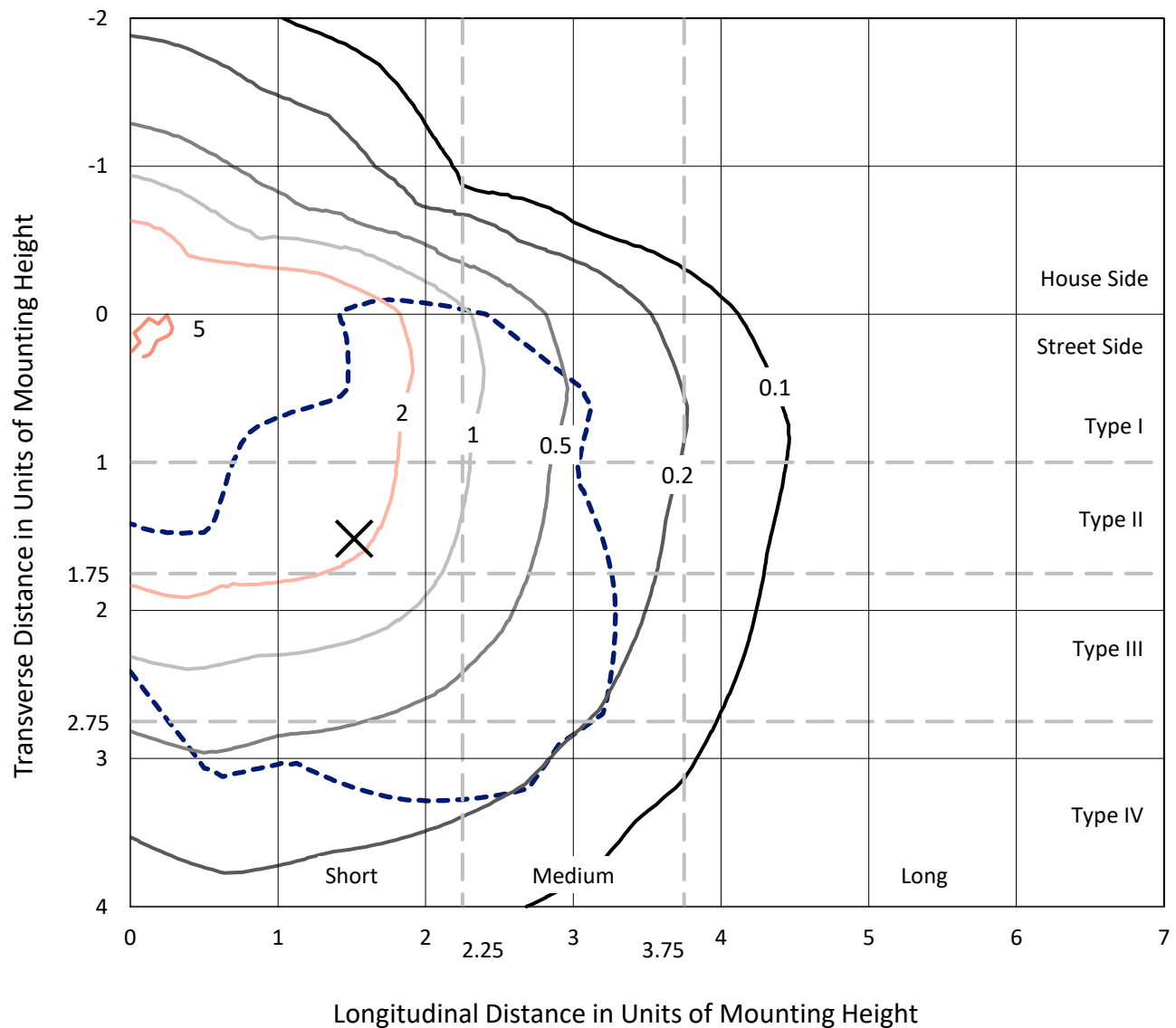


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Iso-Footcandle Lines of Horizontal Illumination

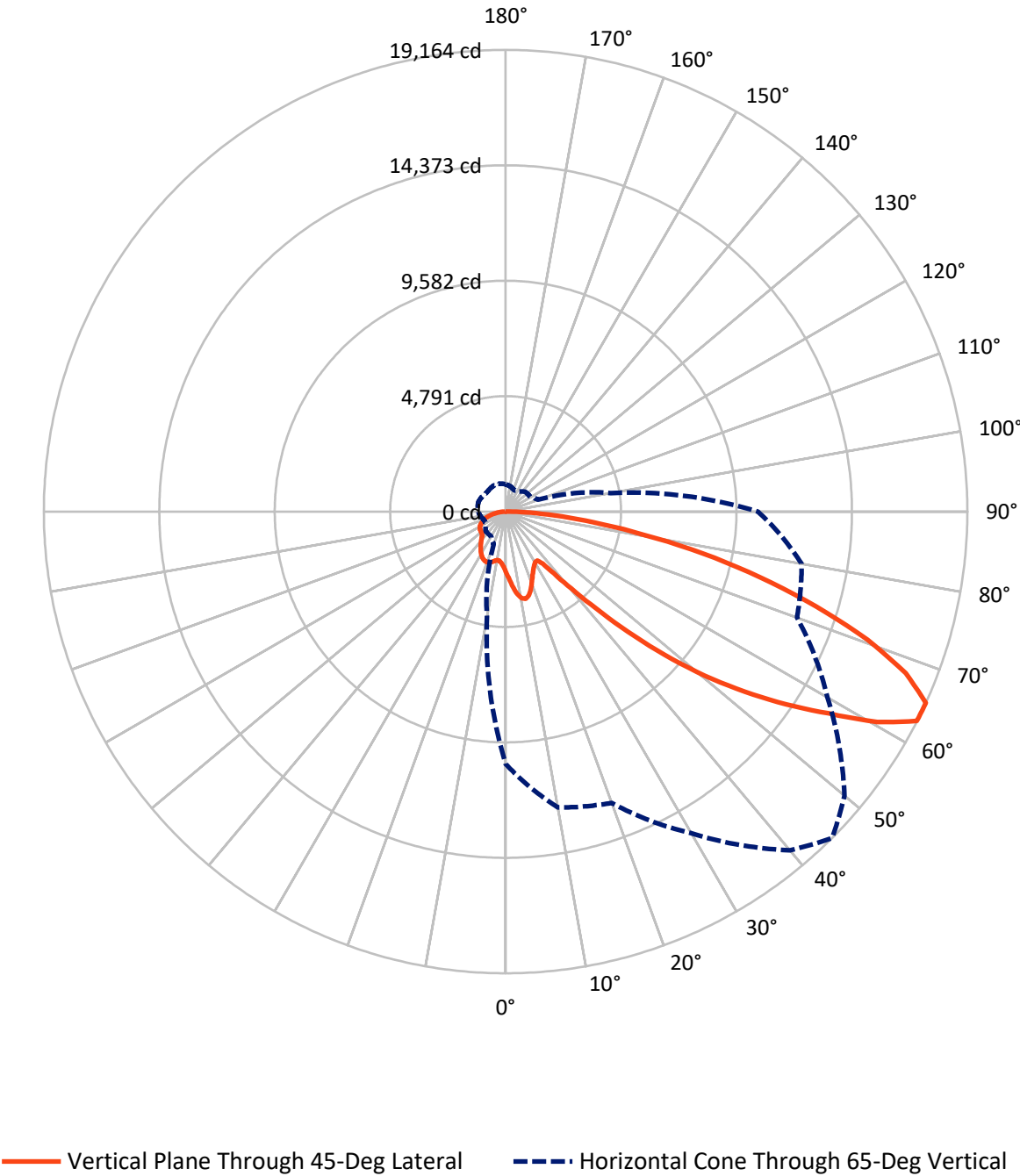
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4666.7	0.0	4666.7
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	13695.2	0.0	13695.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	18361.9	0.0	18361.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.4
10°-20°	786.3	4.3
20°-30°	1214.5	6.6
30°-40°	1539.1	8.4
40°-50°	2321.4	12.6
50°-60°	3750.5	20.4
60°-70°	4675.6	25.5
70°-80°	3066.0	16.7
80°-90°	758.0	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°	18361.9	100.0
0°-180°	18361.9	100.0

Coefficient of Utilization



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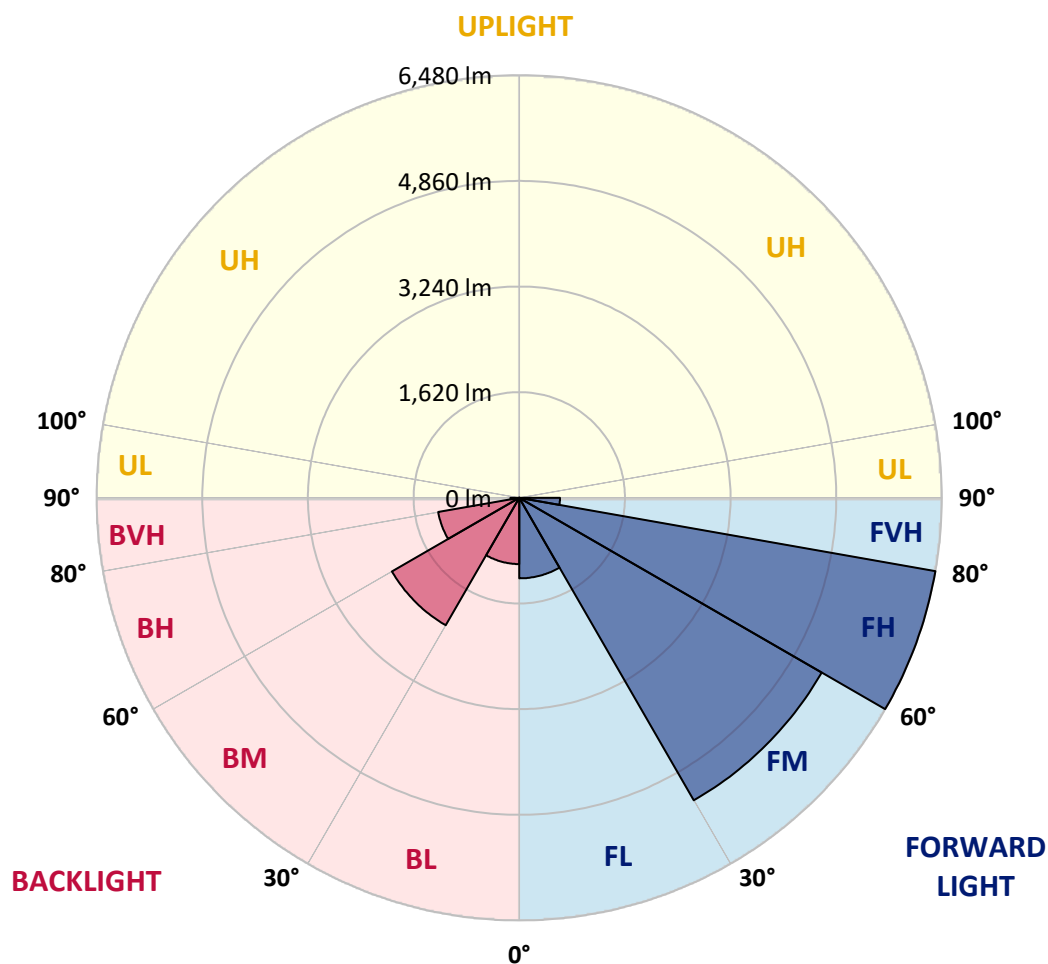
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1235.0	6.7			
FM	(30°-60°)	5355.8	29.2			
FH	(60°-80°)	6480.0	35.3			G3/7500
FVH	(80°-90°)	624.4	3.4			G4/750
BL	(0°-30°)	1016.2	5.5	B3/2500		
BM	(30°-60°)	2255.2	12.3	B2/2500		
BH	(60°-80°)	1261.7	6.9	B3/2500		G3/2500
BVH	(80°-90°)	133.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9
2.5°	2715.3	2725.6	2735.9	2750.6	2765.2	2774.0	2782.7	2787.0	2791.4	2789.4	2791.4
5°	2919.7	2955.7	2991.8	3027.3	3063.1	3082.5	3101.9	3113.6	3125.4	3134.3	3125.4
7.5°	3125.1	3183.6	3242.1	3294.7	3347.3	3379.0	3410.7	3427.8	3444.8	3453.1	3444.8
10°	3282.6	3351.7	3420.9	3482.6	3544.3	3581.8	3619.0	3635.7	3652.2	3658.5	3652.2
12.5°	3379.0	3453.9	3528.9	3584.6	3640.3	3667.4	3694.5	3703.6	3712.8	3713.8	3712.8
15°	3437.6	3502.3	3566.9	3602.0	3637.0	3637.9	3639.0	3629.2	3619.6	3608.1	3619.6
17.5°	3470.5	3514.2	3558.0	3558.6	3559.2	3520.0	3480.7	3444.8	3408.7	3383.3	3408.7
20°	3506.8	3522.1	3537.4	3491.4	3445.3	3358.7	3272.1	3209.1	3145.9	3107.2	3145.9
22.5°	3549.1	3529.1	3509.1	3413.8	3318.4	3191.0	3063.6	2984.7	2905.9	2863.0	2905.9
25°	3603.3	3540.4	3477.3	3332.6	3187.9	3033.1	2878.4	2795.4	2712.7	2672.2	2712.7
27.5°	3676.9	3564.3	3451.7	3259.9	3068.2	2896.8	2725.3	2643.7	2562.2	2524.0	2562.2
30°	3776.2	3608.3	3440.5	3204.5	2968.5	2789.8	2611.2	2535.4	2459.8	2424.1	2459.8
32.5°	3893.5	3663.6	3433.7	3166.7	2899.7	2731.7	2563.8	2504.5	2444.9	2419.3	2444.9
35°	4035.9	3754.5	3473.2	3195.0	2916.8	2800.2	2683.7	2669.7	2655.9	2653.7	2655.9
37.5°	4275.7	3944.7	3613.7	3360.9	3108.0	3100.4	3092.8	3156.3	3219.6	3252.5	3219.6
40°	4638.0	4278.1	3918.2	3730.1	3542.1	3674.8	3807.6	3961.6	4115.6	4192.4	4115.6
42.5°	5118.6	4761.5	4404.3	4296.1	4187.7	4477.2	4766.8	5046.9	5327.1	5491.6	5327.1
45°	5712.0	5391.3	5070.4	5022.6	4974.7	5438.5	5902.5	6362.9	6823.3	7102.8	6823.3
47.5°	6454.2	6142.1	5830.0	5820.3	5810.6	6479.7	7148.7	7822.7	8496.6	8892.4	8496.6
50°	7426.9	7041.4	6656.0	6657.7	6659.3	7521.7	8384.0	9273.7	10163.4	10701.3	10163.4
52.5°	8543.6	8076.8	7610.1	7563.0	7515.6	8545.6	9575.7	10676.5	11777.2	12422.1	11777.2
55°	9732.5	9271.2	8810.1	8626.1	8442.1	9588.5	10734.7	12047.1	13359.4	14126.3	13359.4
57.5°	10813.7	10562.6	10311.4	9942.3	9573.4	10730.8	11888.4	13374.9	14861.3	15812.2	14861.3
60°	11467.2	11857.3	12247.5	11789.1	11330.9	12426.3	13521.8	15113.2	16704.7	17732.5	16704.7
62.5°	11135.4	12201.3	13267.1	13215.5	13163.8	14167.2	15170.8	16684.9	18199.1	19149.0	18199.1
65°	10471.2	11471.6	12472.0	12669.9	12867.7	14143.0	15418.4	16886.6	18354.8	19163.6	18354.8
67.5°	9581.3	10532.7	11484.2	11577.0	11669.7	12998.4	14327.0	15801.6	17276.2	17909.8	17276.2
70°	8512.1	9547.0	10582.0	10623.4	10665.0	11853.2	13041.4	14310.3	15579.2	15931.4	15579.2
72.5°	7238.0	8425.6	9613.3	9643.1	9672.8	10602.5	11532.2	12482.6	13432.8	13468.5	13432.8
75°	5626.3	6855.4	8084.6	8194.9	8305.3	9028.5	9751.8	10420.9	11089.9	10910.6	11089.9
77.5°	4019.9	5167.2	6314.7	6472.7	6630.5	7180.4	7730.2	8204.7	8679.3	8371.2	8679.3
80°	2631.0	3596.3	4561.6	4757.8	4954.1	5369.4	5784.4	6033.7	6282.7	5787.2	6282.7
82.5°	1529.4	2189.3	2849.3	3068.5	3287.9	3573.8	3859.5	3963.5	4067.4	3677.9	4067.4
85°	672.9	1023.2	1373.4	1559.9	1746.4	1981.2	2216.0	2275.0	2334.0	2022.0	2334.0
87.5°	208.3	326.1	443.7	547.8	651.9	769.3	886.7	891.7	896.7	752.9	896.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9
2.5°	2787.0	2782.7	2774.0	2765.2	2750.6	2735.9	2725.6	2715.3	2694.4	2673.6	2651.5
5°	3113.6	3101.9	3082.5	3063.1	3027.3	2991.8	2955.7	2919.7	2873.7	2827.7	2781.7
7.5°	3427.8	3410.7	3379.0	3347.3	3294.7	3242.1	3183.6	3125.1	3049.2	2973.3	2903.2
10°	3635.7	3619.0	3581.8	3544.3	3482.6	3420.9	3351.7	3282.6	3186.5	3090.6	2997.8
12.5°	3703.6	3694.5	3667.4	3640.3	3584.6	3528.9	3453.9	3379.0	3273.4	3168.1	3063.0
15°	3629.2	3639.0	3637.9	3637.0	3602.0	3566.9	3502.3	3437.6	3327.7	3217.7	3103.7
17.5°	3444.8	3480.7	3520.0	3559.2	3558.6	3558.0	3514.2	3470.5	3359.0	3247.5	3123.2
20°	3209.1	3272.1	3358.7	3445.3	3491.4	3537.4	3522.1	3506.8	3391.0	3275.0	3138.4
22.5°	2984.7	3063.6	3191.0	3318.4	3413.8	3509.1	3529.1	3549.1	3430.7	3312.1	3158.9
25°	2795.4	2878.4	3033.1	3187.9	3332.6	3477.3	3540.4	3603.3	3487.3	3371.2	3196.2
27.5°	2643.7	2725.3	2896.8	3068.2	3259.9	3451.7	3564.3	3676.9	3566.3	3455.5	3254.3
30°	2535.4	2611.2	2789.8	2968.5	3204.5	3440.5	3608.3	3776.2	3669.3	3562.4	3329.6
32.5°	2504.5	2563.8	2731.7	2899.7	3166.7	3433.7	3663.6	3893.5	3787.6	3681.8	3408.1
35°	2669.7	2683.7	2800.2	2916.8	3195.0	3473.2	3754.5	4035.9	3934.6	3833.1	3497.7
37.5°	3156.3	3092.8	3100.4	3108.0	3360.9	3613.7	3944.7	4275.7	4146.4	4017.2	3598.0
40°	3961.6	3807.6	3674.8	3542.1	3730.1	3918.2	4278.1	4638.0	4449.7	4261.3	3725.3
42.5°	5046.9	4766.8	4477.2	4187.7	4296.1	4404.3	4761.5	5118.6	4846.7	4574.9	3891.8
45°	6362.9	5902.5	5438.5	4974.7	5022.6	5070.4	5391.3	5712.0	5345.4	4978.6	4111.0
47.5°	7822.7	7148.7	6479.7	5810.6	5820.3	5830.0	6142.1	6454.2	5938.1	5421.8	4344.5
50°	9273.7	8384.0	7521.7	6659.3	6657.7	6656.0	7041.4	7426.9	6648.9	5870.7	4561.1
52.5°	10676.5	9575.7	8545.6	7515.6	7563.0	7610.1	8076.8	8543.6	7395.5	6247.4	4701.8
55°	12047.1	10734.7	9588.5	8442.1	8626.1	8810.1	9271.2	9732.5	8057.4	6382.6	4670.8
57.5°	13374.9	11888.4	10730.8	9573.4	9942.3	10311.4	10562.6	10813.7	8526.6	6239.4	4452.6
60°	15113.2	13521.8	12426.3	11330.9	11789.1	12247.5	11857.3	11467.2	8643.8	5820.3	4046.5
62.5°	16684.9	15170.8	14167.2	13163.8	13215.5	13267.1	12201.3	11135.4	8150.2	5165.0	3497.5
65°	16886.6	15418.4	14143.0	12867.7	12669.9	12472.0	11471.6	10471.2	7451.6	4432.2	2937.2
67.5°	15801.6	14327.0	12998.4	11669.7	11577.0	11484.2	10532.7	9581.3	6620.5	3659.7	2388.5
70°	14310.3	13041.4	11853.2	10665.0	10623.4	10582.0	9547.0	8512.1	5713.6	2914.9	1880.6
72.5°	12482.6	11532.2	10602.5	9672.8	9643.1	9613.3	8425.6	7238.0	4730.3	2222.6	1437.8
75°	10420.9	9751.8	9028.5	8305.3	8194.9	8084.6	6855.4	5626.3	3603.2	1580.0	1043.4
77.5°	8204.7	7730.2	7180.4	6630.5	6472.7	6314.7	5167.2	4019.9	2521.9	1023.9	707.0
80°	6033.7	5784.4	5369.4	4954.1	4757.8	4561.6	3596.3	2631.0	1624.8	618.6	455.6
82.5°	3963.5	3859.5	3573.8	3287.9	3068.5	2849.3	2189.3	1529.4	940.4	351.5	280.2
85°	2275.0	2216.0	1981.2	1746.4	1559.9	1373.4	1023.2	672.9	423.0	173.2	149.8
87.5°	891.7	886.7	769.3	651.9	547.8	443.7	326.1	208.3	138.6	68.8	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9
2.5°	2629.3	2607.1	2584.7	2563.5	2542.2	2521.5	2498.5	2480.0	2461.4	2444.7	2428.0
5°	2735.9	2689.7	2643.6	2600.5	2557.4	2516.7	2476.5	2441.3	2406.2	2376.8	2347.5
7.5°	2833.0	2764.7	2696.4	2636.2	2576.0	2520.6	2468.5	2421.9	2375.2	2336.5	2297.7
10°	2905.2	2822.2	2739.2	2668.1	2596.8	2528.3	2472.4	2423.2	2374.0	2335.2	2296.4
12.5°	2958.0	2860.2	2762.3	2681.8	2601.2	2529.3	2477.2	2436.9	2396.9	2371.0	2345.5
15°	2989.8	2877.1	2764.4	2671.3	2578.0	2498.2	2456.6	2437.3	2418.2	2421.7	2425.1
17.5°	2998.8	2868.1	2737.3	2625.2	2513.1	2419.3	2393.6	2400.7	2407.7	2450.0	2492.2
20°	3001.8	2843.2	2684.8	2545.8	2406.9	2297.7	2291.0	2323.9	2356.8	2430.2	2503.6
22.5°	3005.7	2812.9	2620.1	2452.7	2285.4	2161.1	2174.3	2223.1	2271.8	2355.6	2439.5
25°	3021.0	2782.9	2544.8	2348.8	2152.9	2025.5	2061.3	2117.5	2173.7	2249.0	2324.4
27.5°	3053.0	2762.8	2472.6	2253.8	2034.8	1918.9	1962.5	2016.7	2071.0	2132.9	2194.7
30°	3096.7	2753.4	2409.8	2174.2	1938.8	1841.4	1875.5	1918.6	1961.7	2013.1	2064.5
32.5°	3134.6	2741.8	2348.8	2105.8	1862.6	1784.2	1799.4	1824.9	1850.3	1891.3	1932.4
35°	3162.2	2719.8	2277.7	2038.4	1799.2	1733.8	1727.5	1734.5	1741.6	1772.8	1804.1
37.5°	3178.7	2682.3	2186.0	1959.2	1732.4	1675.2	1652.1	1644.4	1636.6	1659.2	1681.5
40°	3189.1	2630.8	2072.4	1864.6	1656.8	1604.9	1569.6	1552.1	1534.5	1550.7	1566.9
42.5°	3208.8	2577.5	1946.3	1760.2	1574.2	1526.4	1481.9	1458.7	1435.4	1448.5	1461.9
45°	3243.3	2528.0	1812.6	1649.4	1486.2	1437.9	1394.7	1372.1	1349.4	1360.5	1371.8
47.5°	3267.1	2487.1	1706.9	1561.8	1416.6	1354.0	1316.9	1298.0	1278.9	1289.3	1299.8
50°	3251.6	2442.5	1633.3	1503.5	1373.7	1291.5	1248.4	1231.5	1214.8	1231.0	1247.4
52.5°	3156.2	2367.1	1578.3	1465.1	1352.1	1257.6	1197.3	1180.7	1164.1	1188.6	1213.1
55°	2959.0	2242.4	1525.8	1437.4	1348.9	1261.0	1170.2	1143.9	1117.6	1152.4	1187.1
57.5°	2665.9	2066.4	1466.9	1404.4	1341.9	1264.4	1153.9	1115.6	1077.2	1114.6	1152.0
60°	2272.8	1837.9	1403.1	1354.0	1304.9	1253.8	1138.7	1089.0	1039.1	1071.9	1104.7
62.5°	1830.0	1564.6	1299.1	1266.4	1233.9	1227.5	1120.8	1058.6	996.5	1017.3	1038.1
65°	1442.5	1318.6	1194.6	1179.3	1163.8	1164.6	1083.2	1017.1	951.0	959.0	967.0
67.5°	1117.4	1082.2	1046.8	1055.5	1064.1	1061.9	1016.2	961.1	906.1	903.5	901.1
70°	846.3	856.4	866.3	906.3	946.1	946.1	931.1	892.0	852.8	844.1	835.4
72.5°	652.8	683.2	713.6	770.2	826.7	836.2	836.3	809.5	782.7	769.9	757.2
75°	507.0	534.4	561.9	625.4	688.7	732.5	728.8	708.2	687.5	675.2	662.9
77.5°	390.2	409.0	427.7	489.3	550.8	623.0	621.0	604.4	587.9	575.5	563.1
80°	292.6	300.3	308.1	360.2	412.3	498.5	498.2	484.3	470.4	460.0	449.6
82.5°	209.1	210.4	212.0	250.4	288.7	362.3	366.4	359.7	352.9	345.5	338.1
85°	126.5	125.8	124.9	153.0	181.2	236.0	241.3	234.0	226.7	218.5	210.2
87.5°	55.5	54.7	54.0	65.5	77.0	99.8	106.6	103.6	100.8	99.2	97.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P965617

CATALOG NUMBER: NAV-SB4A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9
2.5°	2413.4	2398.8	2384.0	2369.4	2358.1	2346.6	2337.4	2328.2	2321.0	2313.9	2307.3
5°	2321.4	2295.5	2271.9	2248.3	2230.2	2212.0	2199.2	2186.5	2177.6	2168.6	2161.7
7.5°	2265.0	2232.3	2203.4	2174.6	2153.0	2131.6	2116.4	2101.4	2091.0	2080.6	2074.5
10°	2261.3	2226.0	2193.6	2161.1	2135.3	2109.4	2092.6	2075.5	2065.8	2055.9	2050.7
12.5°	2317.7	2290.3	2256.6	2223.1	2190.1	2157.2	2135.4	2113.7	2102.7	2091.8	2087.4
15°	2418.0	2410.8	2381.6	2352.5	2305.5	2258.7	2225.5	2192.4	2177.2	2162.0	2156.3
17.5°	2514.6	2537.0	2513.5	2490.0	2427.9	2365.8	2317.0	2268.1	2245.7	2223.1	2215.7
20°	2550.6	2597.6	2586.7	2575.8	2504.8	2433.9	2374.0	2314.1	2285.4	2256.5	2247.3
22.5°	2500.6	2561.7	2568.3	2574.8	2506.9	2439.2	2377.6	2315.8	2285.5	2255.1	2245.0
25°	2384.6	2444.7	2467.2	2489.5	2434.0	2378.4	2323.6	2268.9	2242.6	2216.4	2206.7
27.5°	2243.0	2291.2	2316.2	2341.3	2301.6	2262.2	2219.6	2177.1	2159.5	2141.7	2137.3
30°	2104.5	2144.6	2165.0	2185.3	2155.2	2124.9	2094.5	2063.9	2054.9	2045.8	2045.8
32.5°	1970.8	2009.3	2031.9	2054.5	2026.8	1999.0	1974.7	1950.4	1944.4	1938.6	1939.3
35°	1842.0	1880.2	1907.2	1934.4	1914.6	1894.9	1872.5	1850.1	1841.1	1832.2	1830.2
37.5°	1719.3	1757.4	1790.9	1824.4	1815.3	1806.2	1785.6	1764.8	1748.4	1732.1	1723.5
40°	1603.5	1640.1	1678.6	1717.4	1719.5	1721.7	1704.2	1686.6	1662.8	1639.2	1623.1
42.5°	1496.5	1531.4	1573.0	1614.7	1625.8	1636.9	1622.1	1607.4	1577.8	1548.3	1524.9
45°	1404.7	1437.7	1480.8	1524.1	1540.1	1556.1	1542.6	1529.4	1495.6	1461.9	1434.4
47.5°	1332.0	1364.2	1406.8	1449.5	1467.9	1486.2	1476.9	1467.7	1437.7	1407.6	1382.2
50°	1277.9	1308.2	1346.3	1384.6	1408.1	1431.8	1431.2	1430.8	1406.8	1382.8	1359.4
52.5°	1241.0	1268.7	1304.3	1340.0	1368.0	1395.9	1401.0	1406.1	1386.5	1366.9	1345.9
55°	1217.1	1247.1	1278.4	1309.4	1339.1	1368.9	1375.9	1382.8	1365.7	1348.7	1330.2
57.5°	1187.3	1222.5	1253.4	1284.2	1314.2	1344.1	1351.2	1358.2	1340.9	1323.7	1305.4
60°	1145.2	1185.7	1217.0	1248.4	1278.5	1308.5	1316.2	1324.0	1307.1	1290.4	1271.6
62.5°	1085.4	1132.6	1166.0	1199.5	1227.0	1254.5	1262.0	1269.5	1254.2	1239.0	1219.2
65°	1017.5	1068.2	1100.1	1132.1	1156.4	1180.6	1188.3	1195.8	1181.2	1166.6	1147.4
67.5°	947.7	994.6	1024.9	1055.1	1076.0	1097.0	1104.4	1111.8	1098.3	1085.0	1067.1
70°	876.5	917.6	943.7	969.9	988.7	1007.7	1014.9	1022.0	1011.1	1000.1	983.1
72.5°	789.6	821.8	845.4	869.1	887.5	906.1	914.6	923.1	914.1	905.0	888.7
75°	687.0	710.9	732.4	753.8	770.7	787.5	796.4	805.3	800.8	796.4	782.8
77.5°	582.7	602.2	620.5	639.0	656.7	674.3	682.6	691.1	684.8	678.4	664.6
80°	465.9	482.1	497.5	513.0	526.5	539.9	550.9	561.9	559.2	556.6	538.1
82.5°	336.8	335.4	330.0	324.6	353.2	381.9	400.8	419.5	418.4	417.1	401.5
85°	203.3	196.2	181.2	166.2	193.0	220.0	243.2	266.4	264.6	262.6	250.4
87.5°	97.4	97.1	85.7	74.1	85.4	96.7	106.1	115.5	113.2	110.6	104.4
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: P965617

CATALOG NUMBER: NAV-SB4A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9
2.5°	2300.6	2292.4	2300.6	2307.3	2313.9	2321.0	2328.2	2337.4	2346.6	2358.1	2369.4
5°	2154.8	2148.0	2154.8	2161.7	2168.6	2177.6	2186.5	2199.2	2212.0	2230.2	2248.3
7.5°	2068.3	2063.7	2068.3	2074.5	2080.6	2091.0	2101.4	2116.4	2131.6	2153.0	2174.6
10°	2045.5	2043.3	2045.5	2050.7	2055.9	2065.8	2075.5	2092.6	2109.4	2135.3	2161.1
12.5°	2082.9	2082.1	2082.9	2087.4	2091.8	2102.7	2113.7	2135.4	2157.2	2190.1	2223.1
15°	2150.4	2149.9	2150.4	2156.3	2162.0	2177.2	2192.4	2225.5	2258.7	2305.5	2352.5
17.5°	2208.3	2207.1	2208.3	2215.7	2223.1	2245.7	2268.1	2317.0	2365.8	2427.9	2490.0
20°	2238.1	2235.2	2238.1	2247.3	2256.5	2285.4	2314.1	2374.0	2433.9	2504.8	2575.8
22.5°	2234.7	2230.4	2234.7	2245.0	2255.1	2285.5	2315.8	2377.6	2439.2	2506.9	2574.8
25°	2197.2	2191.7	2197.2	2206.7	2216.4	2242.6	2268.9	2323.6	2378.4	2434.0	2489.5
27.5°	2133.0	2131.6	2133.0	2137.3	2141.7	2159.5	2177.1	2219.6	2262.2	2301.6	2341.3
30°	2045.8	2047.2	2045.8	2045.8	2045.8	2054.9	2063.9	2094.5	2124.9	2155.2	2185.3
32.5°	1940.2	1941.7	1940.2	1939.3	1938.6	1944.4	1950.4	1974.7	1999.0	2026.8	2054.5
35°	1828.3	1827.3	1828.3	1830.2	1832.2	1841.1	1850.1	1872.5	1894.9	1914.6	1934.4
37.5°	1714.9	1710.1	1714.9	1723.5	1732.1	1748.4	1764.8	1785.6	1806.2	1815.3	1824.4
40°	1607.2	1597.7	1607.2	1623.1	1639.2	1662.8	1686.6	1704.2	1721.7	1719.5	1717.4
42.5°	1501.6	1486.2	1501.6	1524.9	1548.3	1577.8	1607.4	1622.1	1636.9	1625.8	1614.7
45°	1407.0	1389.4	1407.0	1434.4	1461.9	1495.6	1529.4	1542.6	1556.1	1540.1	1524.1
47.5°	1356.9	1340.0	1356.9	1382.2	1407.6	1437.7	1467.7	1476.9	1486.2	1467.9	1449.5
50°	1335.9	1319.6	1335.9	1359.4	1382.8	1406.8	1430.8	1431.2	1431.8	1408.1	1384.6
52.5°	1324.9	1309.9	1324.9	1345.9	1366.9	1386.5	1406.1	1401.0	1395.9	1368.0	1340.0
55°	1311.9	1298.3	1311.9	1330.2	1348.7	1365.7	1382.8	1375.9	1368.9	1339.1	1309.4
57.5°	1287.2	1273.2	1287.2	1305.4	1323.7	1340.9	1358.2	1351.2	1344.1	1314.2	1284.2
60°	1252.8	1238.2	1252.8	1271.6	1290.4	1307.1	1324.0	1316.2	1308.5	1278.5	1248.4
62.5°	1199.5	1182.0	1199.5	1219.2	1239.0	1254.2	1269.5	1262.0	1254.5	1227.0	1199.5
65°	1128.2	1113.3	1128.2	1147.4	1166.6	1181.2	1195.8	1188.3	1180.6	1156.4	1132.1
67.5°	1049.3	1035.8	1049.3	1067.1	1085.0	1098.3	1111.8	1104.4	1097.0	1076.0	1055.1
70°	966.0	950.5	966.0	983.1	1000.1	1011.1	1022.0	1014.9	1007.7	988.7	969.9
72.5°	872.5	857.4	872.5	888.7	905.0	914.1	923.1	914.6	906.1	887.5	869.1
75°	769.1	754.8	769.1	782.8	796.4	800.8	805.3	796.4	787.5	770.7	753.8
77.5°	650.9	639.5	650.9	664.6	678.4	684.8	691.1	682.6	674.3	656.7	639.0
80°	519.5	498.0	519.5	538.1	556.6	559.2	561.9	550.9	539.9	526.5	513.0
82.5°	385.8	372.1	385.8	401.5	417.1	418.4	419.5	400.8	381.9	353.2	324.6
85°	238.1	225.7	238.1	250.4	262.6	264.6	266.4	243.2	220.0	193.0	166.2
87.5°	98.1	92.0	98.1	104.4	110.6	113.2	115.5	106.1	96.7	85.4	74.1
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: P965617

CATALOG NUMBER: NAV-SB4A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9
2.5°	2384.0	2398.8	2413.4	2428.0	2444.7	2461.4	2480.0	2498.5	2521.5	2542.2	2563.5
5°	2271.9	2295.5	2321.4	2347.5	2376.8	2406.2	2441.3	2476.5	2516.7	2557.4	2600.5
7.5°	2203.4	2232.3	2265.0	2297.7	2336.5	2375.2	2421.9	2468.5	2520.6	2576.0	2636.2
10°	2193.6	2226.0	2261.3	2296.4	2335.2	2374.0	2423.2	2472.4	2528.3	2596.8	2668.1
12.5°	2256.6	2290.3	2317.7	2345.5	2371.0	2396.9	2436.9	2477.2	2529.3	2601.2	2681.8
15°	2381.6	2410.8	2418.0	2425.1	2421.7	2418.2	2437.3	2456.6	2498.2	2578.0	2671.3
17.5°	2513.5	2537.0	2514.6	2492.2	2450.0	2407.7	2400.7	2393.6	2419.3	2513.1	2625.2
20°	2586.7	2597.6	2550.6	2503.6	2430.2	2356.8	2323.9	2291.0	2297.7	2406.9	2545.8
22.5°	2568.3	2561.7	2500.6	2439.5	2355.6	2271.8	2223.1	2174.3	2161.1	2285.4	2452.7
25°	2467.2	2444.7	2384.6	2324.4	2249.0	2173.7	2117.5	2061.3	2025.5	2152.9	2348.8
27.5°	2316.2	2291.2	2243.0	2194.7	2132.9	2071.0	2016.7	1962.5	1918.9	2034.8	2253.8
30°	2165.0	2144.6	2104.5	2064.5	2013.1	1961.7	1918.6	1875.5	1841.4	1938.8	2174.2
32.5°	2031.9	2009.3	1970.8	1932.4	1891.3	1850.3	1824.9	1799.4	1784.2	1862.6	2105.8
35°	1907.2	1880.2	1842.0	1804.1	1772.8	1741.6	1734.5	1727.5	1733.8	1799.2	2038.4
37.5°	1790.9	1757.4	1719.3	1681.5	1659.2	1636.6	1644.4	1652.1	1675.2	1732.4	1959.2
40°	1678.6	1640.1	1603.5	1566.9	1550.7	1534.5	1552.1	1569.6	1604.9	1656.8	1864.6
42.5°	1573.0	1531.4	1496.5	1461.9	1448.5	1435.4	1458.7	1481.9	1526.4	1574.2	1760.2
45°	1480.8	1437.7	1404.7	1371.8	1360.5	1349.4	1372.1	1394.7	1437.9	1486.2	1649.4
47.5°	1406.8	1364.2	1332.0	1299.8	1289.3	1278.9	1298.0	1316.9	1354.0	1416.6	1561.8
50°	1346.3	1308.2	1277.9	1247.4	1231.0	1214.8	1231.5	1248.4	1291.5	1373.7	1503.5
52.5°	1304.3	1268.7	1241.0	1213.1	1188.6	1164.1	1180.7	1197.3	1257.6	1352.1	1465.1
55°	1278.4	1247.1	1217.1	1187.1	1152.4	1117.6	1143.9	1170.2	1261.0	1348.9	1437.4
57.5°	1253.4	1222.5	1187.3	1152.0	1114.6	1077.2	1115.6	1153.9	1264.4	1341.9	1404.4
60°	1217.0	1185.7	1145.2	1104.7	1071.9	1039.1	1089.0	1138.7	1253.8	1304.9	1354.0
62.5°	1166.0	1132.6	1085.4	1038.1	1017.3	996.5	1058.6	1120.8	1227.5	1233.9	1266.4
65°	1100.1	1068.2	1017.5	967.0	959.0	951.0	1017.1	1083.2	1164.6	1163.8	1179.3
67.5°	1024.9	994.6	947.7	901.1	903.5	906.1	961.1	1016.2	1061.9	1064.1	1055.5
70°	943.7	917.6	876.5	835.4	844.1	852.8	892.0	931.1	946.1	946.1	906.3
72.5°	845.4	821.8	789.6	757.2	769.9	782.7	809.5	836.3	836.2	826.7	770.2
75°	732.4	710.9	687.0	662.9	675.2	687.5	708.2	728.8	732.5	688.7	625.4
77.5°	620.5	602.2	582.7	563.1	575.5	587.9	604.4	621.0	623.0	550.8	489.3
80°	497.5	482.1	465.9	449.6	460.0	470.4	484.3	498.2	498.5	412.3	360.2
82.5°	330.0	335.4	336.8	338.1	345.5	352.9	359.7	366.4	362.3	288.7	250.4
85°	181.2	196.2	203.3	210.2	218.5	226.7	234.0	241.3	236.0	181.2	153.0
87.5°	85.7	97.1	97.4	97.7	99.2	100.8	103.6	106.6	99.8	77.0	65.5
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-SB4A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9	2524.9
2.5°	2584.7	2607.1	2629.3	2651.5	2673.6	2694.4	2715.3
5°	2643.6	2689.7	2735.9	2781.7	2827.7	2873.7	2919.7
7.5°	2696.4	2764.7	2833.0	2903.2	2973.3	3049.2	3125.1
10°	2739.2	2822.2	2905.2	2997.8	3090.6	3186.5	3282.6
12.5°	2762.3	2860.2	2958.0	3063.0	3168.1	3273.4	3379.0
15°	2764.4	2877.1	2989.8	3103.7	3217.7	3327.7	3437.6
17.5°	2737.3	2868.1	2998.8	3123.2	3247.5	3359.0	3470.5
20°	2684.8	2843.2	3001.8	3138.4	3275.0	3391.0	3506.8
22.5°	2620.1	2812.9	3005.7	3158.9	3312.1	3430.7	3549.1
25°	2544.8	2782.9	3021.0	3196.2	3371.2	3487.3	3603.3
27.5°	2472.6	2762.8	3053.0	3254.3	3455.5	3566.3	3676.9
30°	2409.8	2753.4	3096.7	3329.6	3562.4	3669.3	3776.2
32.5°	2348.8	2741.8	3134.6	3408.1	3681.8	3787.6	3893.5
35°	2277.7	2719.8	3162.2	3497.7	3833.1	3934.6	4035.9
37.5°	2186.0	2682.3	3178.7	3598.0	4017.2	4146.4	4275.7
40°	2072.4	2630.8	3189.1	3725.3	4261.3	4449.7	4638.0
42.5°	1946.3	2577.5	3208.8	3891.8	4574.9	4846.7	5118.6
45°	1812.6	2528.0	3243.3	4111.0	4978.6	5345.4	5712.0
47.5°	1706.9	2487.1	3267.1	4344.5	5421.8	5938.1	6454.2
50°	1633.3	2442.5	3251.6	4561.1	5870.7	6648.9	7426.9
52.5°	1578.3	2367.1	3156.2	4701.8	6247.4	7395.5	8543.6
55°	1525.8	2242.4	2959.0	4670.8	6382.6	8057.4	9732.5
57.5°	1466.9	2066.4	2665.9	4452.6	6239.4	8526.6	10813.7
60°	1403.1	1837.9	2272.8	4046.5	5820.3	8643.8	11467.2
62.5°	1299.1	1564.6	1830.0	3497.5	5165.0	8150.2	11135.4
65°	1194.6	1318.6	1442.5	2937.2	4432.2	7451.6	10471.2
67.5°	1046.8	1082.2	1117.4	2388.5	3659.7	6620.5	9581.3
70°	866.3	856.4	846.3	1880.6	2914.9	5713.6	8512.1
72.5°	713.6	683.2	652.8	1437.8	2222.6	4730.3	7238.0
75°	561.9	534.4	507.0	1043.4	1580.0	3603.2	5626.3
77.5°	427.7	409.0	390.2	707.0	1023.9	2521.9	4019.9
80°	308.1	300.3	292.6	455.6	618.6	1624.8	2631.0
82.5°	212.0	210.4	209.1	280.2	351.5	940.4	1529.4
85°	124.9	125.8	126.5	149.8	173.2	423.0	672.9
87.5°	54.0	54.7	55.5	62.1	68.8	138.6	208.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)