

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: P967849

Luminaire Tested: **NAV-SB5A-827-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967849
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-SB5A-827-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20123.8 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 141.7
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



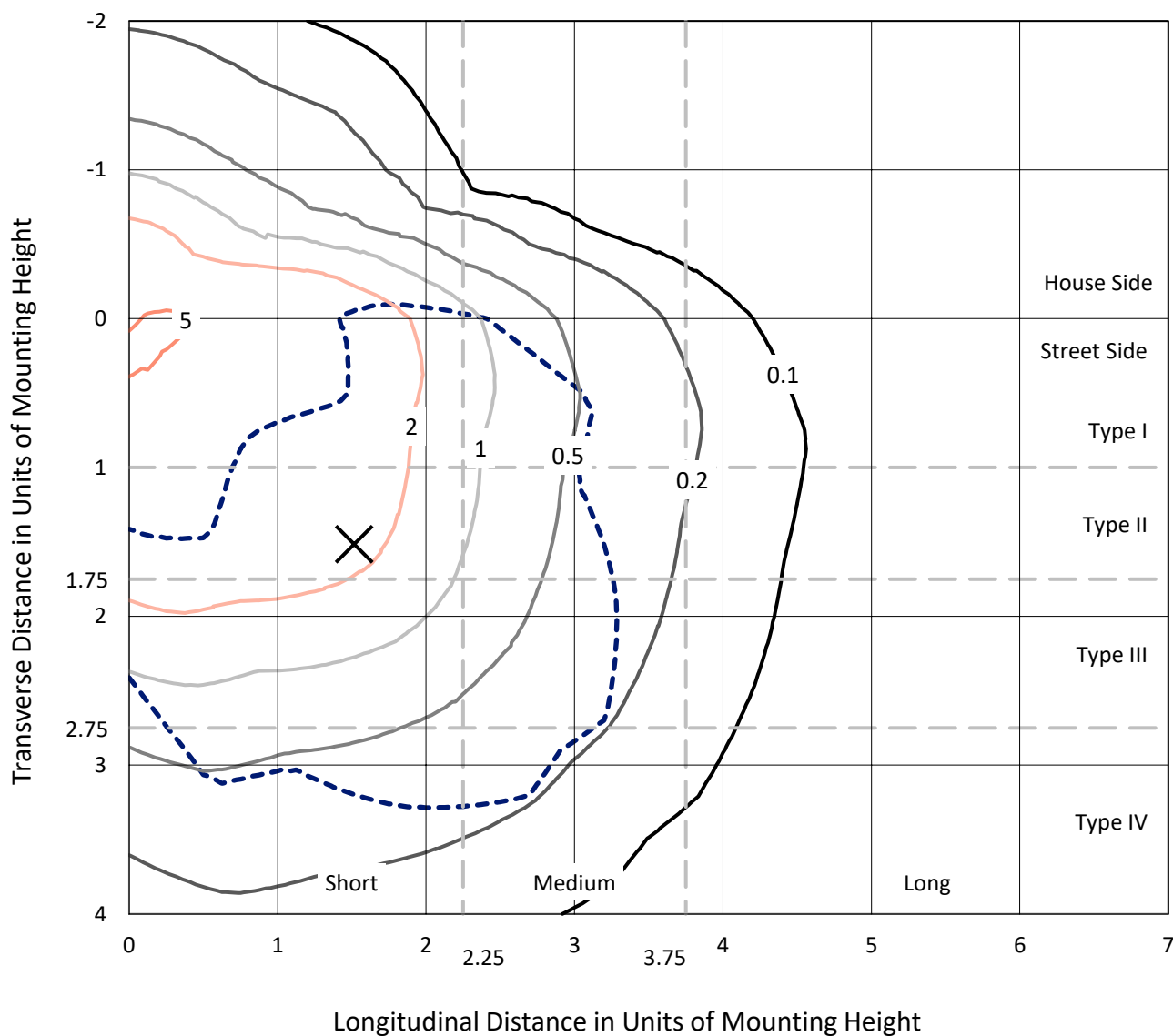
REPORT NUMBER: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

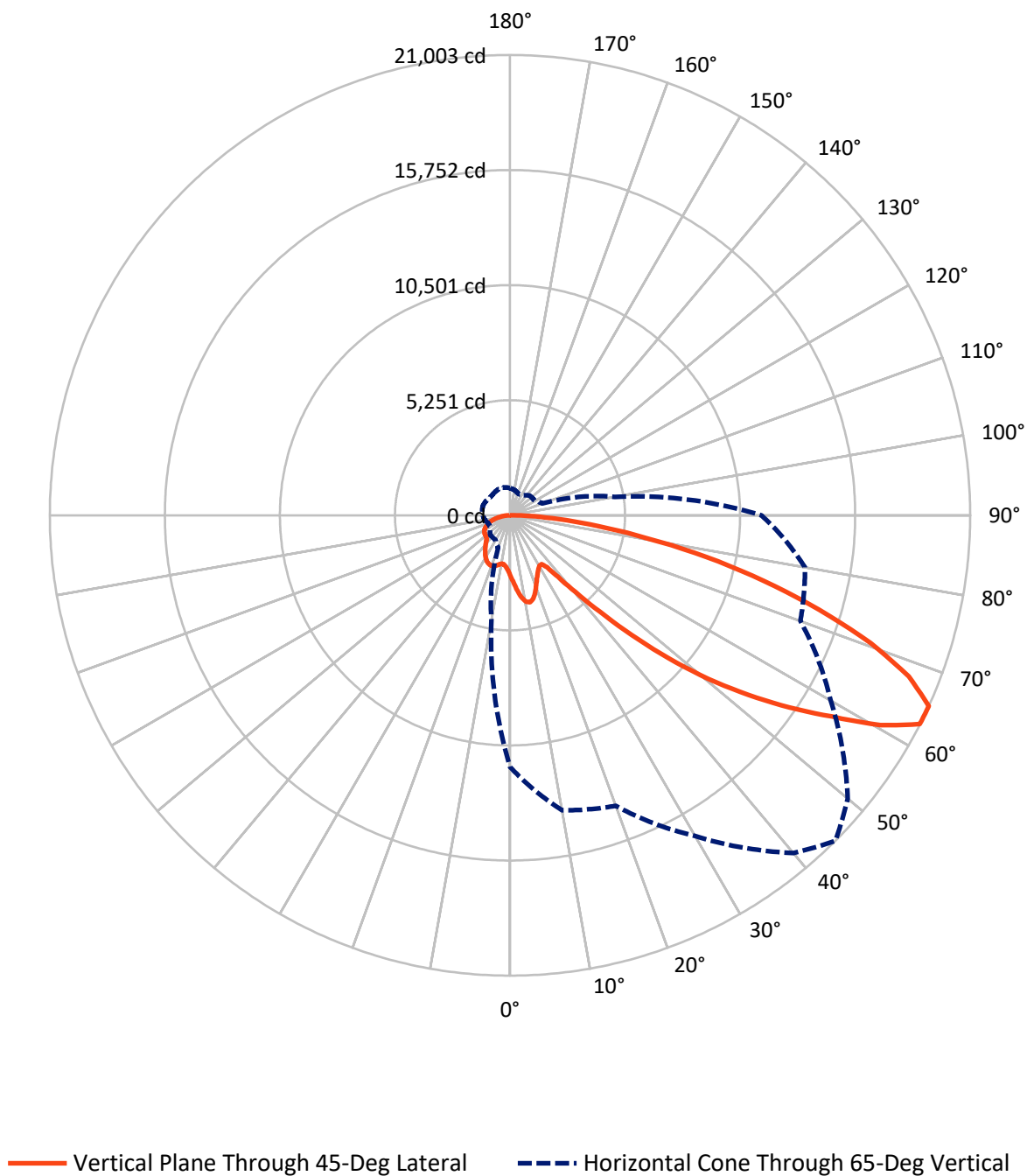


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type IV - Short - N/A

REPORT NUMBER: P967849
CATALOG NUMBER: NAV-SB5A-827-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5114.5	0.0	5114.5
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	15009.4	0.0	15009.4
	% Fixture	74.6	0.0	74.6
Total	Lumens	20123.8	0.0	20123.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	1.4
10°-20°	861.7	4.3
20°-30°	1331.1	6.6
30°-40°	1686.8	8.4
40°-50°	2544.1	12.6
50°-60°	4110.4	20.4
60°-70°	5124.3	25.5
70°-80°	3360.2	16.7
80°-90°	830.7	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°	20123.8	100.0
0°-180°	20123.8	100.0

Coefficient of Utilization



REPORT NUMBER: P967849

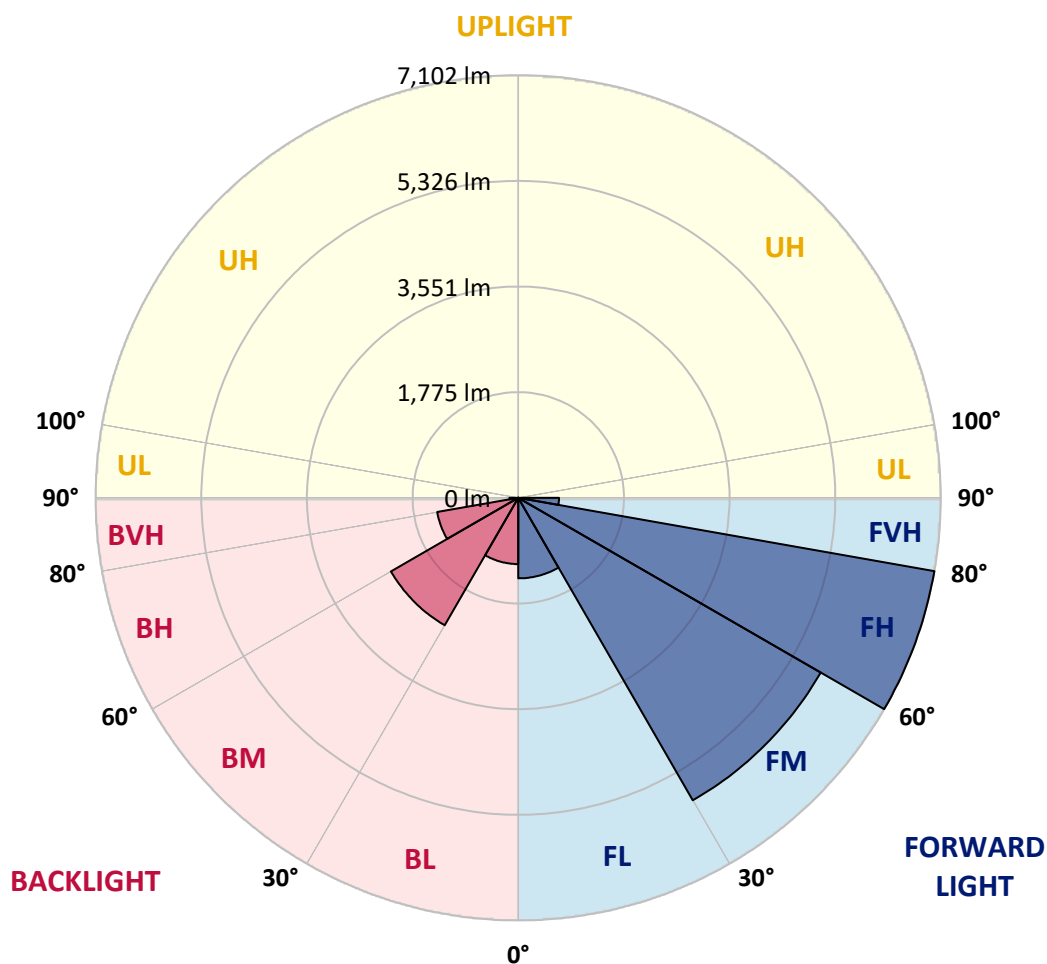
CATALOG NUMBER: NAV-SB5A-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1353.6	6.7			
FM	(30°-60°)	5869.7	29.2			
FH	(60°-80°)	7101.8	35.3			G3/7500
FVH	(80°-90°)	684.3	3.4			G4/750
BL	(0°-30°)	1113.7	5.5	B3/2500		
BM	(30°-60°)	2471.6	12.3	B2/2500		
BH	(60°-80°)	1382.7	6.9	B3/2500		G3/2500
BVH	(80°-90°)	146.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	2975.9	2987.2	2998.4	3014.5	3030.5	3040.0	3049.7	3054.4	3059.2	3057.1	3059.2
5°	3199.9	3239.3	3278.8	3317.9	3357.1	3378.3	3399.5	3412.4	3425.3	3435.1	3425.3
7.5°	3425.0	3489.2	3553.2	3610.9	3668.5	3703.2	3738.0	3756.7	3775.4	3784.5	3775.4
10°	3597.5	3673.4	3749.2	3816.9	3884.4	3925.4	3966.2	3984.5	4002.6	4009.6	4002.6
12.5°	3703.2	3785.4	3867.5	3928.6	3989.6	4019.3	4049.1	4059.1	4069.0	4070.1	4069.0
15°	3767.5	3838.4	3909.2	3947.6	3986.0	3987.0	3988.2	3977.5	3966.9	3954.3	3966.9
17.5°	3803.6	3851.4	3899.3	3900.1	3900.7	3857.7	3814.7	3775.3	3735.8	3708.0	3735.8
20°	3843.4	3860.0	3876.9	3826.4	3776.0	3681.1	3586.1	3517.0	3447.9	3405.4	3447.9
22.5°	3889.6	3867.7	3845.8	3741.4	3636.9	3497.2	3357.6	3271.2	3184.7	3137.8	3184.7
25°	3949.0	3880.0	3811.1	3652.4	3493.7	3324.2	3154.5	3063.6	2973.0	2928.6	2973.0
27.5°	4029.8	3906.4	3782.9	3572.7	3362.7	3174.7	2986.7	2897.4	2808.1	2766.2	2808.1
30°	4138.5	3954.6	3770.7	3512.0	3253.4	3057.5	2861.7	2778.8	2695.9	2656.8	2695.9
32.5°	4267.1	4015.1	3763.2	3470.5	3177.9	2993.9	2809.9	2744.7	2679.6	2651.5	2679.6
35°	4423.2	4114.8	3806.5	3501.6	3196.8	3068.8	2941.1	2926.0	2910.8	2908.4	2910.8
37.5°	4686.0	4323.2	3960.5	3683.3	3406.2	3398.0	3389.7	3459.1	3528.6	3564.6	3528.6
40°	5083.1	4688.7	4294.1	4088.0	3882.0	4027.4	4172.9	4341.7	4510.5	4594.7	4510.5
42.5°	5609.8	5218.4	4827.0	4708.2	4589.5	4906.9	5224.1	5531.2	5838.3	6018.6	5838.3
45°	6260.2	5908.6	5556.9	5504.6	5452.1	5960.4	6468.9	6973.4	7478.1	7784.5	7478.1
47.5°	7073.5	6731.6	6389.4	6378.8	6368.1	7101.5	7834.6	8573.3	9311.9	9745.7	9311.9
50°	8139.6	7717.1	7294.7	7296.6	7298.3	8243.4	9188.5	10163.6	11138.7	11728.3	11138.7
52.5°	9363.5	8851.9	8340.3	8288.7	8236.8	9365.7	10494.6	11701.0	12907.4	13614.0	12907.4
55°	10666.4	10160.9	9655.5	9453.8	9252.2	10508.6	11764.8	13203.1	14641.4	15481.9	14641.4
57.5°	11851.4	11576.1	11300.8	10896.4	10492.0	11760.6	13029.2	14658.3	16287.2	17329.5	16287.2
60°	12567.6	12995.2	13422.7	12920.4	12418.2	13618.8	14819.2	16563.5	18307.7	19434.1	18307.7
62.5°	12204.0	13372.0	14540.2	14483.7	14426.9	15526.7	16626.5	18286.0	19945.4	20986.6	19945.4
65°	11476.0	12572.3	13668.8	13885.7	14102.6	15500.2	16897.8	18507.0	20116.0	21002.5	20116.0
67.5°	10500.7	11543.4	12586.2	12688.0	12789.5	14245.8	15701.9	17317.9	18934.0	19628.4	18934.0
70°	9328.9	10463.1	11597.4	11642.9	11688.4	12990.6	14292.8	15683.5	17074.1	17460.2	17074.1
72.5°	7932.6	9234.1	10535.8	10568.5	10601.1	11619.9	12638.8	13680.4	14721.8	14760.9	14721.8
75°	6166.2	7513.2	8860.3	8981.3	9102.2	9894.9	10687.6	11420.8	12154.0	11957.5	12154.0
77.5°	4405.7	5663.1	6920.7	7093.7	7266.8	7869.4	8472.0	8992.0	9512.1	9174.5	9512.1
80°	2883.4	3941.4	4999.2	5214.4	5429.5	5884.6	6339.5	6612.6	6885.6	6342.5	6885.6
82.5°	1676.2	2399.4	3122.7	3363.0	3603.4	3916.6	4229.9	4343.8	4457.7	4030.8	4457.7
85°	737.5	1121.4	1505.2	1709.6	1914.0	2171.4	2428.6	2493.3	2558.0	2216.0	2558.0
87.5°	228.3	357.3	486.4	600.3	714.4	843.2	971.8	977.3	982.8	825.0	982.8
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: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	3054.4	3049.7	3040.0	3030.5	3014.5	2998.4	2987.2	2975.9	2953.0	2930.2	2905.9
5°	3412.4	3399.5	3378.3	3357.1	3317.9	3278.8	3239.3	3199.9	3149.5	3099.0	3048.7
7.5°	3756.7	3738.0	3703.2	3668.5	3610.9	3553.2	3489.2	3425.0	3341.8	3258.6	3181.7
10°	3984.5	3966.2	3925.4	3884.4	3816.9	3749.2	3673.4	3597.5	3492.4	3387.1	3285.5
12.5°	4059.1	4049.1	4019.3	3989.6	3928.6	3867.5	3785.4	3703.2	3587.6	3472.1	3357.0
15°	3977.5	3988.2	3987.0	3986.0	3947.6	3909.2	3838.4	3767.5	3647.0	3526.4	3401.6
17.5°	3775.3	3814.7	3857.7	3900.7	3900.1	3899.3	3851.4	3803.6	3681.4	3559.1	3422.9
20°	3517.0	3586.1	3681.1	3776.0	3826.4	3876.9	3860.0	3843.4	3716.3	3589.2	3439.6
22.5°	3271.2	3357.6	3497.2	3636.9	3741.4	3845.8	3867.7	3889.6	3759.8	3629.9	3462.0
25°	3063.6	3154.5	3324.2	3493.7	3652.4	3811.1	3880.0	3949.0	3821.8	3694.7	3502.8
27.5°	2897.4	2986.7	3174.7	3362.7	3572.7	3782.9	3906.4	4029.8	3908.5	3787.1	3566.6
30°	2778.8	2861.7	3057.5	3253.4	3512.0	3770.7	3954.6	4138.5	4021.4	3904.2	3649.1
32.5°	2744.7	2809.9	2993.9	3177.9	3470.5	3763.2	4015.1	4267.1	4151.0	4035.0	3735.2
35°	2926.0	2941.1	3068.8	3196.8	3501.6	3806.5	4114.8	4423.2	4312.1	4201.0	3833.3
37.5°	3459.1	3389.7	3398.0	3406.2	3683.3	3960.5	4323.2	4686.0	4544.3	4402.7	3943.2
40°	4341.7	4172.9	4027.4	3882.0	4088.0	4294.1	4688.7	5083.1	4876.6	4670.3	4082.8
42.5°	5531.2	5224.1	4906.9	4589.5	4708.2	4827.0	5218.4	5609.8	5311.9	5013.9	4265.2
45°	6973.4	6468.9	5960.4	5452.1	5504.6	5556.9	5908.6	6260.2	5858.3	5456.4	4505.5
47.5°	8573.3	7834.6	7101.5	6368.1	6378.8	6389.4	6731.6	7073.5	6507.9	5942.1	4761.3
50°	10163.6	9188.5	8243.4	7298.3	7296.6	7294.7	7717.1	8139.6	7286.9	6434.0	4998.8
52.5°	11701.0	10494.6	9365.7	8236.8	8288.7	8340.3	8851.9	9363.5	8105.2	6846.9	5153.0
55°	13203.1	11764.8	10508.6	9252.2	9453.8	9655.5	10160.9	10666.4	8830.6	6995.0	5119.0
57.5°	14658.3	13029.2	11760.6	10492.0	10896.4	11300.8	11576.1	11851.4	9344.7	6838.2	4879.8
60°	16563.5	14819.2	13618.8	12418.2	12920.4	13422.7	12995.2	12567.6	9473.3	6378.8	4434.9
62.5°	18286.0	16626.5	15526.7	14426.9	14483.7	14540.2	13372.0	12204.0	8932.3	5660.6	3833.1
65°	18507.0	16897.8	15500.2	14102.6	13885.7	13668.8	12572.3	11476.0	8166.8	4857.5	3219.1
67.5°	17317.9	15701.9	14245.8	12789.5	12688.0	12586.2	11543.4	10500.7	7255.8	4010.8	2617.6
70°	15683.5	14292.8	12990.6	11688.4	11642.9	11597.4	10463.1	9328.9	6261.7	3194.6	2061.1
72.5°	13680.4	12638.8	11619.9	10601.1	10568.5	10535.8	9234.1	7932.6	5184.2	2435.9	1575.7
75°	11420.8	10687.6	9894.9	9102.2	8981.3	8860.3	7513.2	6166.2	3948.9	1731.6	1143.6
77.5°	8992.0	8472.0	7869.4	7266.8	7093.7	6920.7	5663.1	4405.7	2763.9	1122.2	774.9
80°	6612.6	6339.5	5884.6	5429.5	5214.4	4999.2	3941.4	2883.4	1780.7	678.0	499.3
82.5°	4343.8	4229.9	3916.6	3603.4	3363.0	3122.7	2399.4	1676.2	1030.6	385.2	307.1
85°	2493.3	2428.6	2171.4	1914.0	1709.6	1505.2	1121.4	737.5	463.6	189.8	164.2
87.5°	977.3	971.8	843.2	714.4	600.3	486.4	357.3	228.3	151.8	75.4	68.1
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: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	2881.7	2857.3	2832.8	2809.4	2786.1	2763.5	2738.3	2717.9	2697.7	2679.2	2661.0
5°	2998.4	2947.8	2897.3	2850.0	2802.8	2758.2	2714.1	2675.7	2637.1	2604.8	2572.6
7.5°	3104.8	3030.0	2955.2	2889.2	2823.3	2762.4	2705.4	2654.2	2603.2	2560.7	2518.2
10°	3184.0	3093.0	3002.1	2924.1	2846.0	2770.9	2709.7	2655.7	2601.8	2559.3	2516.8
12.5°	3241.9	3134.6	3027.3	2939.1	2850.8	2772.0	2714.9	2670.7	2626.9	2598.6	2570.5
15°	3276.7	3153.2	3029.7	2927.5	2825.4	2738.0	2692.4	2671.3	2650.1	2654.0	2657.8
17.5°	3286.7	3143.3	3000.0	2877.1	2754.3	2651.5	2623.3	2631.1	2638.8	2685.0	2731.3
20°	3289.8	3116.1	2942.4	2790.2	2637.8	2518.2	2510.7	2546.8	2583.0	2663.4	2743.8
22.5°	3294.0	3082.8	2871.4	2688.1	2504.7	2368.5	2383.0	2436.4	2489.8	2581.6	2673.5
25°	3310.9	3049.9	2788.9	2574.2	2359.4	2219.8	2259.1	2320.7	2382.3	2464.8	2547.4
27.5°	3345.9	3027.8	2709.9	2469.9	2230.1	2103.0	2150.8	2210.2	2269.8	2337.6	2405.4
30°	3393.9	3017.6	2641.0	2382.9	2124.8	2018.0	2055.5	2102.7	2150.0	2206.3	2262.6
32.5°	3435.3	3004.9	2574.2	2307.9	2041.4	1955.4	1972.1	2000.0	2028.0	2072.9	2117.9
35°	3465.7	2980.8	2496.2	2234.1	1971.9	1900.1	1893.3	1901.0	1908.7	1943.0	1977.2
37.5°	3483.8	2939.7	2395.7	2147.2	1898.6	1836.0	1810.7	1802.2	1793.6	1818.4	1842.8
40°	3495.1	2883.1	2271.3	2043.5	1815.8	1759.0	1720.3	1701.0	1681.8	1699.6	1717.3
42.5°	3516.7	2824.8	2133.0	1929.2	1725.3	1673.0	1624.1	1598.6	1573.2	1587.6	1602.2
45°	3554.6	2770.5	1986.6	1807.7	1628.9	1575.8	1528.6	1503.7	1479.0	1491.1	1503.4
47.5°	3580.6	2725.7	1870.8	1711.6	1552.5	1484.0	1443.3	1422.5	1401.7	1413.2	1424.4
50°	3563.6	2676.8	1790.1	1647.8	1505.5	1415.4	1368.2	1349.7	1331.4	1349.2	1367.1
52.5°	3459.0	2594.4	1729.8	1605.8	1481.8	1378.3	1312.2	1294.0	1275.8	1302.7	1329.4
55°	3242.9	2457.5	1672.2	1575.2	1478.4	1382.0	1282.5	1253.7	1224.9	1263.0	1301.0
57.5°	2921.7	2264.7	1607.6	1539.1	1470.7	1385.7	1264.6	1222.6	1180.6	1221.6	1262.6
60°	2491.0	2014.3	1537.8	1484.0	1430.1	1374.0	1247.9	1193.4	1138.9	1174.9	1210.7
62.5°	2005.6	1714.7	1423.7	1388.0	1352.3	1345.4	1228.4	1160.2	1092.1	1115.0	1137.8
65°	1580.9	1445.0	1309.2	1292.4	1275.5	1276.3	1187.2	1114.7	1042.2	1051.0	1059.7
67.5°	1224.6	1186.0	1147.4	1156.8	1166.1	1163.8	1113.7	1053.4	993.0	990.3	987.5
70°	927.5	938.6	949.6	993.2	1036.9	1036.9	1020.5	977.5	934.7	925.1	915.5
72.5°	715.4	748.8	782.1	844.1	906.0	916.4	916.6	887.1	857.7	843.8	829.8
75°	555.6	585.7	615.9	685.3	754.8	802.8	798.7	776.1	753.4	740.0	726.5
77.5°	427.7	448.2	468.8	536.3	603.6	682.8	680.6	662.5	644.3	630.8	617.2
80°	320.7	329.1	337.6	394.8	451.8	546.3	546.0	530.8	515.6	504.2	492.7
82.5°	229.2	230.6	232.4	274.4	316.4	397.1	401.6	394.1	386.7	378.6	370.5
85°	138.6	137.9	136.9	167.8	198.5	258.6	264.4	256.5	248.5	239.4	230.4
87.5°	60.8	60.0	59.2	71.8	84.5	109.4	116.8	113.6	110.4	108.8	107.0
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: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	2645.0	2628.9	2612.8	2596.7	2584.3	2571.8	2561.7	2551.6	2543.7	2536.0	2528.7
5°	2544.3	2515.8	2489.9	2464.0	2444.2	2424.2	2410.3	2396.4	2386.5	2376.7	2369.1
7.5°	2482.4	2446.5	2414.9	2383.3	2359.7	2336.1	2319.5	2303.0	2291.6	2280.3	2273.6
10°	2478.2	2439.6	2404.0	2368.5	2340.2	2311.9	2293.4	2274.7	2264.0	2253.3	2247.5
12.5°	2540.2	2510.0	2473.1	2436.4	2400.3	2364.3	2340.4	2316.4	2304.4	2292.5	2287.7
15°	2649.9	2642.1	2610.2	2578.2	2526.8	2475.4	2439.1	2402.8	2386.1	2369.5	2363.1
17.5°	2755.9	2780.5	2754.7	2729.0	2660.9	2592.8	2539.3	2485.8	2461.1	2436.4	2428.3
20°	2795.4	2846.8	2834.9	2823.0	2745.2	2667.4	2601.8	2536.3	2504.7	2473.0	2463.0
22.5°	2740.5	2807.6	2814.8	2821.9	2747.5	2673.2	2605.7	2538.0	2504.8	2471.5	2460.3
25°	2613.3	2679.2	2704.0	2728.4	2667.5	2606.7	2546.5	2486.6	2457.7	2429.0	2418.5
27.5°	2458.2	2511.0	2538.5	2566.0	2522.5	2479.3	2432.6	2386.0	2366.6	2347.2	2342.4
30°	2306.5	2350.4	2372.7	2395.0	2362.0	2328.9	2295.5	2262.0	2252.1	2242.1	2242.1
32.5°	2159.9	2202.1	2226.8	2251.6	2221.3	2190.8	2164.2	2137.5	2131.1	2124.5	2125.4
35°	2018.8	2060.6	2090.3	2120.0	2098.4	2076.8	2052.2	2027.7	2017.7	2008.0	2005.8
37.5°	1884.4	1926.0	1962.8	1999.5	1989.5	1979.5	1956.9	1934.2	1916.2	1898.4	1889.0
40°	1757.4	1797.5	1839.8	1882.1	1884.6	1886.9	1867.7	1848.5	1822.3	1796.4	1778.8
42.5°	1640.1	1678.2	1723.9	1769.6	1781.8	1794.1	1777.8	1761.7	1729.3	1696.9	1671.3
45°	1539.4	1575.6	1623.0	1670.3	1687.9	1705.3	1690.7	1676.2	1639.1	1602.2	1572.0
47.5°	1459.8	1495.1	1541.8	1588.5	1608.7	1628.9	1618.7	1608.5	1575.6	1542.6	1514.8
50°	1400.5	1433.8	1475.6	1517.4	1543.3	1569.2	1568.6	1568.1	1541.8	1515.5	1489.7
52.5°	1360.1	1390.5	1429.5	1468.5	1499.3	1529.9	1535.4	1541.0	1519.6	1498.0	1475.0
55°	1333.9	1366.8	1401.0	1435.1	1467.6	1500.2	1507.9	1515.5	1496.8	1478.2	1458.0
57.5°	1301.2	1339.9	1373.6	1407.5	1440.3	1473.0	1480.7	1488.5	1469.6	1450.7	1430.7
60°	1255.1	1299.5	1333.8	1368.2	1401.1	1434.1	1442.5	1451.0	1432.5	1414.2	1393.6
62.5°	1189.5	1241.3	1278.0	1314.6	1344.7	1374.9	1383.0	1391.2	1374.5	1357.9	1336.2
65°	1115.2	1170.7	1205.7	1240.8	1267.3	1293.9	1302.3	1310.6	1294.5	1278.5	1257.5
67.5°	1038.7	1090.0	1123.2	1156.4	1179.3	1202.2	1210.4	1218.5	1203.8	1189.1	1169.5
70°	960.5	1005.6	1034.2	1062.9	1083.6	1104.3	1112.2	1120.0	1108.0	1096.0	1077.4
72.5°	865.3	900.7	926.6	952.5	972.7	993.0	1002.3	1011.8	1001.7	991.8	974.0
75°	752.9	779.2	802.7	826.2	844.6	863.0	872.9	882.6	877.7	872.9	857.9
77.5°	638.6	659.9	680.1	700.3	719.8	739.0	748.1	757.3	750.5	743.5	728.5
80°	510.6	528.3	545.3	562.2	577.0	591.6	603.7	615.9	612.9	610.1	589.8
82.5°	369.1	367.6	361.6	355.7	387.1	418.6	439.2	459.8	458.5	457.2	440.0
85°	222.7	215.0	198.5	182.1	211.6	241.1	266.5	292.0	289.9	287.7	274.4
87.5°	106.7	106.4	93.9	81.3	93.6	106.0	116.2	126.6	124.0	121.3	114.5
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: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	2521.4	2512.4	2521.4	2528.7	2536.0	2543.7	2551.6	2561.7	2571.8	2584.3	2596.7
5°	2361.6	2354.1	2361.6	2369.1	2376.7	2386.5	2396.4	2410.3	2424.2	2444.2	2464.0
7.5°	2266.9	2261.8	2266.9	2273.6	2280.3	2291.6	2303.0	2319.5	2336.1	2359.7	2383.3
10°	2241.8	2239.4	2241.8	2247.5	2253.3	2264.0	2274.7	2293.4	2311.9	2340.2	2368.5
12.5°	2282.8	2282.0	2282.8	2287.7	2292.5	2304.4	2316.4	2340.4	2364.3	2400.3	2436.4
15°	2356.8	2356.3	2356.8	2363.1	2369.5	2386.1	2402.8	2439.1	2475.4	2526.8	2578.2
17.5°	2420.2	2418.9	2420.2	2428.3	2436.4	2461.1	2485.8	2539.3	2592.8	2660.9	2729.0
20°	2452.9	2449.8	2452.9	2463.0	2473.0	2504.7	2536.3	2601.8	2667.4	2745.2	2823.0
22.5°	2449.1	2444.4	2449.1	2460.3	2471.5	2504.8	2538.0	2605.7	2673.2	2747.5	2821.9
25°	2408.0	2401.9	2408.0	2418.5	2429.0	2457.7	2486.6	2546.5	2606.7	2667.5	2728.4
27.5°	2337.7	2336.1	2337.7	2342.4	2347.2	2366.6	2386.0	2432.6	2479.3	2522.5	2566.0
30°	2242.1	2243.7	2242.1	2242.1	2242.1	2252.1	2262.0	2295.5	2328.9	2362.0	2395.0
32.5°	2126.4	2128.0	2126.4	2125.4	2124.5	2131.1	2137.5	2164.2	2190.8	2221.3	2251.6
35°	2003.8	2002.6	2003.8	2005.8	2008.0	2017.7	2027.7	2052.2	2076.8	2098.4	2120.0
37.5°	1879.4	1874.2	1879.4	1889.0	1898.4	1916.2	1934.2	1956.9	1979.5	1989.5	1999.5
40°	1761.4	1751.0	1761.4	1778.8	1796.4	1822.3	1848.5	1867.7	1886.9	1884.6	1882.1
42.5°	1645.6	1628.9	1645.6	1671.3	1696.9	1729.3	1761.7	1777.8	1794.1	1781.8	1769.6
45°	1542.0	1522.7	1542.0	1572.0	1602.2	1639.1	1676.2	1690.7	1705.3	1687.9	1670.3
47.5°	1487.2	1468.5	1487.2	1514.8	1542.6	1575.6	1608.5	1618.7	1628.9	1608.7	1588.5
50°	1464.1	1446.3	1464.1	1489.7	1515.5	1541.8	1568.1	1568.6	1569.2	1543.3	1517.4
52.5°	1452.1	1435.6	1452.1	1475.0	1498.0	1519.6	1541.0	1535.4	1529.9	1499.3	1468.5
55°	1437.8	1422.9	1437.8	1458.0	1478.2	1496.8	1515.5	1507.9	1500.2	1467.6	1435.1
57.5°	1410.7	1395.2	1410.7	1430.7	1450.7	1469.6	1488.5	1480.7	1473.0	1440.3	1407.5
60°	1373.0	1357.1	1373.0	1393.6	1414.2	1432.5	1451.0	1442.5	1434.1	1401.1	1368.2
62.5°	1314.6	1295.5	1314.6	1336.2	1357.9	1374.5	1391.2	1383.0	1374.9	1344.7	1314.6
65°	1236.6	1220.1	1236.6	1257.5	1278.5	1294.5	1310.6	1302.3	1293.9	1267.3	1240.8
67.5°	1149.9	1135.1	1149.9	1169.5	1189.1	1203.8	1218.5	1210.4	1202.2	1179.3	1156.4
70°	1058.7	1041.7	1058.7	1077.4	1096.0	1108.0	1120.0	1112.2	1104.3	1083.6	1062.9
72.5°	956.2	939.7	956.2	974.0	991.8	1001.7	1011.8	1002.3	993.0	972.7	952.5
75°	842.9	827.2	842.9	857.9	872.9	877.7	882.6	872.9	863.0	844.6	826.2
77.5°	713.4	700.8	713.4	728.5	743.5	750.5	757.3	748.1	739.0	719.8	700.3
80°	569.4	545.8	569.4	589.8	610.1	612.9	615.9	603.7	591.6	577.0	562.2
82.5°	422.8	407.7	422.8	440.0	457.2	458.5	459.8	439.2	418.6	387.1	355.7
85°	261.0	247.4	261.0	274.4	287.7	289.9	292.0	266.5	241.1	211.6	182.1
87.5°	107.4	100.9	107.4	114.5	121.3	124.0	126.6	116.2	106.0	93.6	81.3
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: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	2612.8	2628.9	2645.0	2661.0	2679.2	2697.7	2717.9	2738.3	2763.5	2786.1	2809.4
5°	2489.9	2515.8	2544.3	2572.6	2604.8	2637.1	2675.7	2714.1	2758.2	2802.8	2850.0
7.5°	2414.9	2446.5	2482.4	2518.2	2560.7	2603.2	2654.2	2705.4	2762.4	2823.3	2889.2
10°	2404.0	2439.6	2478.2	2516.8	2559.3	2601.8	2655.7	2709.7	2770.9	2846.0	2924.1
12.5°	2473.1	2510.0	2540.2	2570.5	2598.6	2626.9	2670.7	2714.9	2772.0	2850.8	2939.1
15°	2610.2	2642.1	2649.9	2657.8	2654.0	2650.1	2671.3	2692.4	2738.0	2825.4	2927.5
17.5°	2754.7	2780.5	2755.9	2731.3	2685.0	2638.8	2631.1	2623.3	2651.5	2754.3	2877.1
20°	2834.9	2846.8	2795.4	2743.8	2663.4	2583.0	2546.8	2510.7	2518.2	2637.8	2790.2
22.5°	2814.8	2807.6	2740.5	2673.5	2581.6	2489.8	2436.4	2383.0	2368.5	2504.7	2688.1
25°	2704.0	2679.2	2613.3	2547.4	2464.8	2382.3	2320.7	2259.1	2219.8	2359.4	2574.2
27.5°	2538.5	2511.0	2458.2	2405.4	2337.6	2269.8	2210.2	2150.8	2103.0	2230.1	2469.9
30°	2372.7	2350.4	2306.5	2262.6	2206.3	2150.0	2102.7	2055.5	2018.0	2124.8	2382.9
32.5°	2226.8	2202.1	2159.9	2117.9	2072.9	2028.0	2000.0	1972.1	1955.4	2041.4	2307.9
35°	2090.3	2060.6	2018.8	1977.2	1943.0	1908.7	1901.0	1893.3	1900.1	1971.9	2234.1
37.5°	1962.8	1926.0	1884.4	1842.8	1818.4	1793.6	1802.2	1810.7	1836.0	1898.6	2147.2
40°	1839.8	1797.5	1757.4	1717.3	1699.6	1681.8	1701.0	1720.3	1759.0	1815.8	2043.5
42.5°	1723.9	1678.2	1640.1	1602.2	1587.6	1573.2	1598.6	1624.1	1673.0	1725.3	1929.2
45°	1623.0	1575.6	1539.4	1503.4	1491.1	1479.0	1503.7	1528.6	1575.8	1628.9	1807.7
47.5°	1541.8	1495.1	1459.8	1424.4	1413.2	1401.7	1422.5	1443.3	1484.0	1552.5	1711.6
50°	1475.6	1433.8	1400.5	1367.1	1349.2	1331.4	1349.7	1368.2	1415.4	1505.5	1647.8
52.5°	1429.5	1390.5	1360.1	1329.4	1302.7	1275.8	1294.0	1312.2	1378.3	1481.8	1605.8
55°	1401.0	1366.8	1333.9	1301.0	1263.0	1224.9	1253.7	1282.5	1382.0	1478.4	1575.2
57.5°	1373.6	1339.9	1301.2	1262.6	1221.6	1180.6	1222.6	1264.6	1385.7	1470.7	1539.1
60°	1333.8	1299.5	1255.1	1210.7	1174.9	1138.9	1193.4	1247.9	1374.0	1430.1	1484.0
62.5°	1278.0	1241.3	1189.5	1137.8	1115.0	1092.1	1160.2	1228.4	1345.4	1352.3	1388.0
65°	1205.7	1170.7	1115.2	1059.7	1051.0	1042.2	1114.7	1187.2	1276.3	1275.5	1292.4
67.5°	1123.2	1090.0	1038.7	987.5	990.3	993.0	1053.4	1113.7	1163.8	1166.1	1156.8
70°	1034.2	1005.6	960.5	915.5	925.1	934.7	977.5	1020.5	1036.9	1036.9	993.2
72.5°	926.6	900.7	865.3	829.8	843.8	857.7	887.1	916.6	916.4	906.0	844.1
75°	802.7	779.2	752.9	726.5	740.0	753.4	776.1	798.7	802.8	754.8	685.3
77.5°	680.1	659.9	638.6	617.2	630.8	644.3	662.5	680.6	682.8	603.6	536.3
80°	545.3	528.3	510.6	492.7	504.2	515.6	530.8	546.0	546.3	451.8	394.8
82.5°	361.6	367.6	369.1	370.5	378.6	386.7	394.1	401.6	397.1	316.4	274.4
85°	198.5	215.0	222.7	230.4	239.4	248.5	256.5	264.4	258.6	198.5	167.8
87.5°	93.9	106.4	106.7	107.0	108.8	110.4	113.6	116.8	109.4	84.5	71.8
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: P967849

CATALOG NUMBER: NAV-SB5A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2	2767.2
2.5°	2832.8	2857.3	2881.7	2905.9	2930.2	2953.0	2975.9
5°	2897.3	2947.8	2998.4	3048.7	3099.0	3149.5	3199.9
7.5°	2955.2	3030.0	3104.8	3181.7	3258.6	3341.8	3425.0
10°	3002.1	3093.0	3184.0	3285.5	3387.1	3492.4	3597.5
12.5°	3027.3	3134.6	3241.9	3357.0	3472.1	3587.6	3703.2
15°	3029.7	3153.2	3276.7	3401.6	3526.4	3647.0	3767.5
17.5°	3000.0	3143.3	3286.7	3422.9	3559.1	3681.4	3803.6
20°	2942.4	3116.1	3289.8	3439.6	3589.2	3716.3	3843.4
22.5°	2871.4	3082.8	3294.0	3462.0	3629.9	3759.8	3889.6
25°	2788.9	3049.9	3310.9	3502.8	3694.7	3821.8	3949.0
27.5°	2709.9	3027.8	3345.9	3566.6	3787.1	3908.5	4029.8
30°	2641.0	3017.6	3393.9	3649.1	3904.2	4021.4	4138.5
32.5°	2574.2	3004.9	3435.3	3735.2	4035.0	4151.0	4267.1
35°	2496.2	2980.8	3465.7	3833.3	4201.0	4312.1	4423.2
37.5°	2395.7	2939.7	3483.8	3943.2	4402.7	4544.3	4686.0
40°	2271.3	2883.1	3495.1	4082.8	4670.3	4876.6	5083.1
42.5°	2133.0	2824.8	3516.7	4265.2	5013.9	5311.9	5609.8
45°	1986.6	2770.5	3554.6	4505.5	5456.4	5858.3	6260.2
47.5°	1870.8	2725.7	3580.6	4761.3	5942.1	6507.9	7073.5
50°	1790.1	2676.8	3563.6	4998.8	6434.0	7286.9	8139.6
52.5°	1729.8	2594.4	3459.0	5153.0	6846.9	8105.2	9363.5
55°	1672.2	2457.5	3242.9	5119.0	6995.0	8830.6	10666.4
57.5°	1607.6	2264.7	2921.7	4879.8	6838.2	9344.7	11851.4
60°	1537.8	2014.3	2491.0	4434.9	6378.8	9473.3	12567.6
62.5°	1423.7	1714.7	2005.6	3833.1	5660.6	8932.3	12204.0
65°	1309.2	1445.0	1580.9	3219.1	4857.5	8166.8	11476.0
67.5°	1147.4	1186.0	1224.6	2617.6	4010.8	7255.8	10500.7
70°	949.6	938.6	927.5	2061.1	3194.6	6261.7	9328.9
72.5°	782.1	748.8	715.4	1575.7	2435.9	5184.2	7932.6
75°	615.9	585.7	555.6	1143.6	1731.6	3948.9	6166.2
77.5°	468.8	448.2	427.7	774.9	1122.2	2763.9	4405.7
80°	337.6	329.1	320.7	499.3	678.0	1780.7	2883.4
82.5°	232.4	230.6	229.2	307.1	385.2	1030.6	1676.2
85°	136.9	137.9	138.6	164.2	189.8	463.6	737.5
87.5°	59.2	60.0	60.8	68.1	75.4	151.8	228.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)