

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: P963137

Luminaire Tested: **NAV-SB2D-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963137
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-SB2D-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18675.5 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

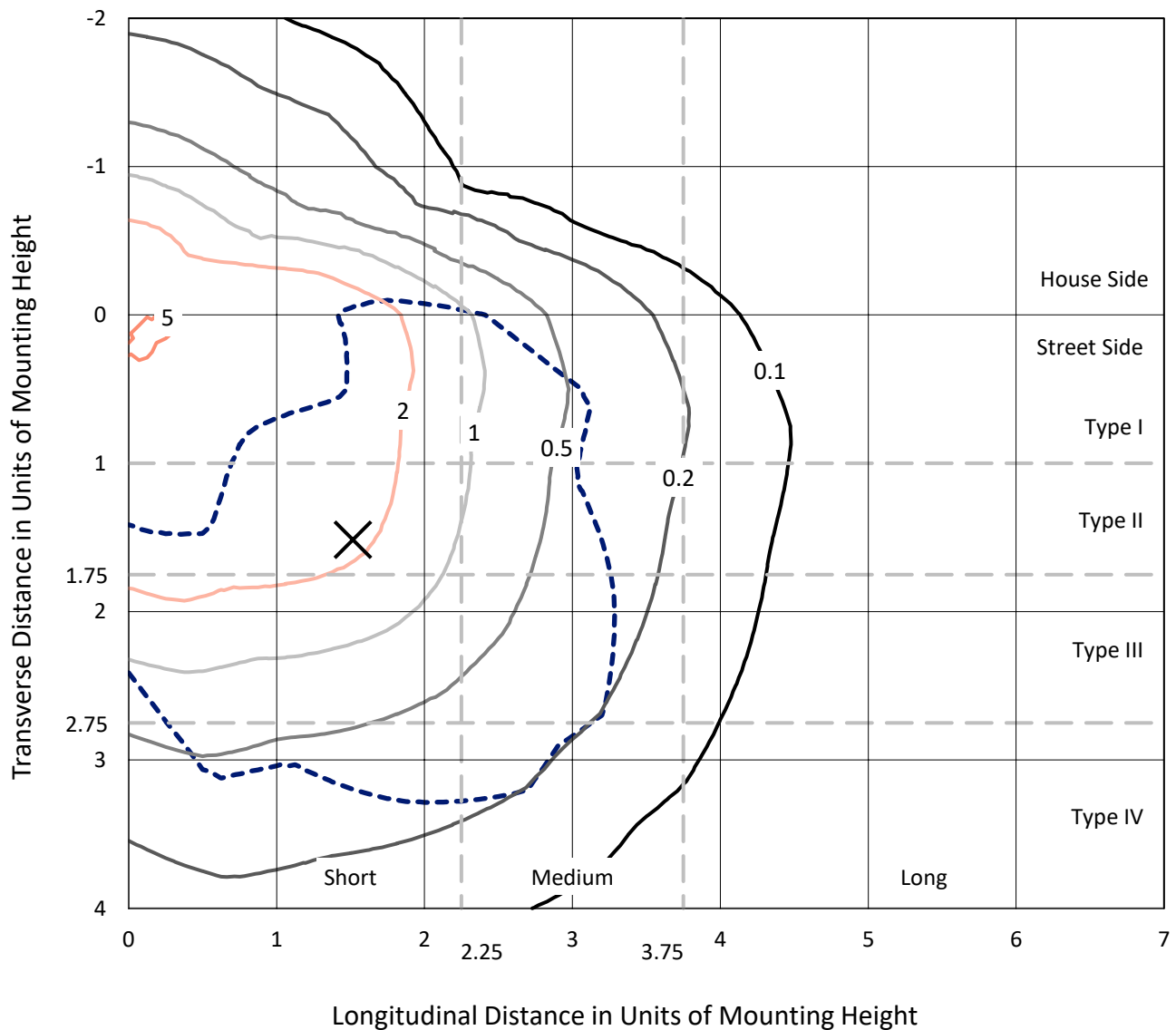
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

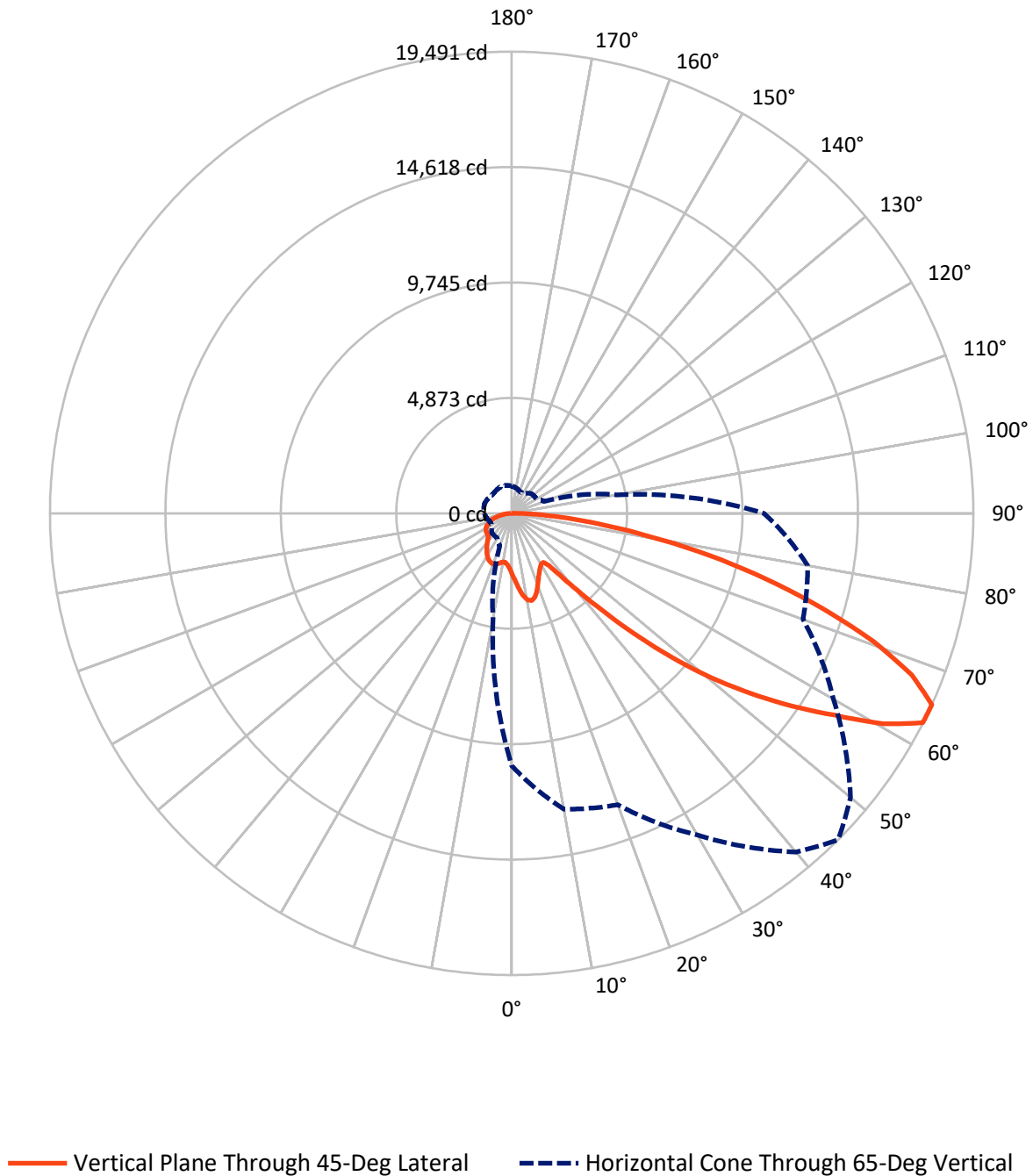
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	4746.4	0.0	4746.4
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	13929.1	0.0	13929.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	18675.5	0.0	18675.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.4
10°-20°	799.7	4.3
20°-30°	1235.3	6.6
30°-40°	1565.4	8.4
40°-50°	2361.0	12.6
50°-60°	3814.6	20.4
60°-70°	4755.5	25.5
70°-80°	3118.4	16.7
80°-90°	770.9	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°	18675.5	100.0
0°-180°	18675.5	100.0

Coefficient of Utilization



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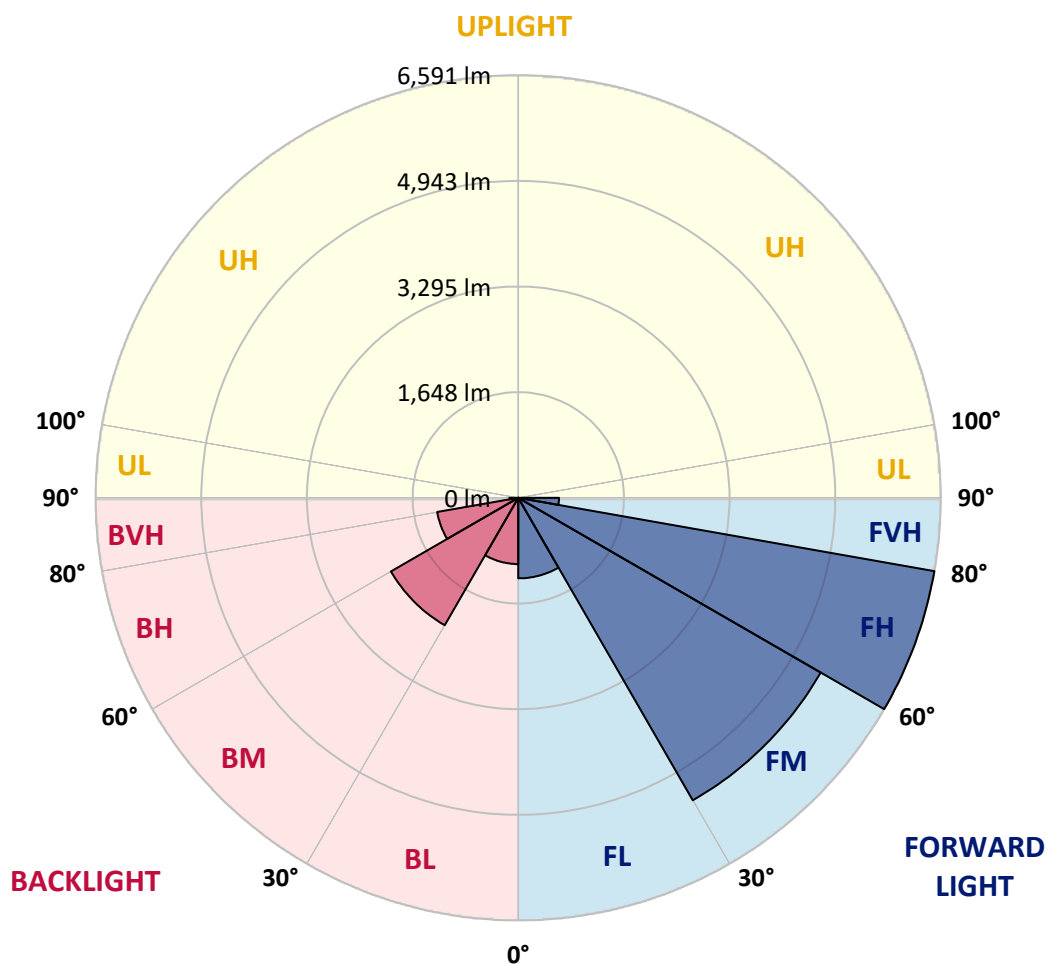
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1256.1	6.7			
FM	(30°-60°)	5447.2	29.2			
FH	(60°-80°)	6590.7	35.3			G3/7500
FVH	(80°-90°)	635.1	3.4			G4/750
BL	(0°-30°)	1033.6	5.5	B3/2500		
BM	(30°-60°)	2293.7	12.3	B2/2500		
BH	(60°-80°)	1283.2	6.9	B3/2500		G3/2500
BVH	(80°-90°)	135.9	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°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2761.7	2772.1	2782.7	2797.5	2812.4	2821.3	2830.1	2834.6	2839.0	2837.1	2839.0
5°	2969.6	3006.1	3042.8	3079.1	3115.5	3135.2	3154.8	3166.8	3178.8	3187.9	3178.8
7.5°	3178.5	3238.1	3297.4	3350.9	3404.4	3436.7	3468.9	3486.3	3503.8	3512.1	3503.8
10°	3338.6	3409.0	3479.4	3542.2	3604.9	3643.0	3680.8	3697.8	3714.6	3721.0	3714.6
12.5°	3436.7	3513.0	3589.1	3645.9	3702.5	3730.1	3757.6	3766.9	3776.2	3777.1	3776.2
15°	3496.3	3562.2	3627.9	3663.5	3699.1	3700.1	3701.1	3691.2	3681.4	3669.8	3681.4
17.5°	3529.8	3574.3	3618.8	3619.4	3620.0	3580.1	3540.1	3503.7	3467.0	3441.1	3467.0
20°	3566.8	3582.3	3597.9	3551.0	3504.2	3416.1	3328.0	3263.9	3199.7	3160.3	3199.7
22.5°	3609.6	3589.3	3569.0	3472.1	3375.1	3245.6	3115.9	3035.7	2955.5	2911.9	2955.5
25°	3664.8	3600.8	3536.8	3389.5	3242.3	3084.9	2927.5	2843.1	2759.0	2717.8	2759.0
27.5°	3739.7	3625.2	3510.6	3315.6	3120.7	2946.3	2771.8	2688.9	2606.0	2567.0	2606.0
30°	3840.8	3669.9	3499.2	3259.2	3019.1	2837.5	2655.8	2578.8	2501.8	2465.5	2501.8
32.5°	3960.0	3726.1	3492.4	3220.8	2949.2	2778.5	2607.7	2547.2	2486.8	2460.6	2486.8
35°	4104.8	3818.6	3532.6	3249.6	2966.7	2848.0	2729.5	2715.3	2701.3	2699.1	2701.3
37.5°	4348.8	4012.1	3675.4	3418.3	3161.1	3153.4	3145.7	3210.2	3274.6	3308.1	3274.6
40°	4717.3	4351.2	3985.1	3793.8	3602.6	3737.6	3872.6	4029.3	4185.9	4264.0	4185.9
42.5°	5206.1	4842.8	4479.6	4369.4	4259.3	4553.7	4848.1	5133.1	5418.2	5585.4	5418.2
45°	5809.6	5483.3	5157.0	5108.4	5059.7	5531.4	6003.2	6471.5	6940.0	7224.2	6940.0
47.5°	6564.5	6247.1	5929.5	5919.7	5909.8	6590.3	7270.7	7956.3	8641.8	9044.3	8641.8
50°	7553.8	7161.8	6769.7	6771.5	6773.1	7650.1	8527.2	9432.0	10337.0	10884.2	10337.0
52.5°	8689.5	8214.8	7740.1	7692.1	7644.0	8691.6	9739.2	10858.8	11978.5	12634.3	11978.5
55°	9898.7	9429.6	8960.6	8773.4	8586.3	9752.3	10918.1	12252.8	13587.7	14367.6	13587.7
57.5°	10998.5	10743.0	10487.5	10112.1	9736.9	10914.2	12091.5	13603.3	15115.1	16082.2	15115.1
60°	11663.1	12059.8	12456.7	11990.6	11524.5	12638.6	13752.7	15371.4	16990.1	18035.4	16990.1
62.5°	11325.6	12409.7	13493.7	13441.2	13388.7	14409.2	15429.9	16970.0	18509.9	19476.1	18509.9
65°	10650.1	11667.6	12685.0	12886.3	13087.5	14384.5	15681.7	17175.0	18668.2	19490.9	18668.2
67.5°	9745.0	10712.7	11680.4	11774.8	11869.1	13220.4	14571.8	16071.6	17571.3	18215.8	17571.3
70°	8657.6	9710.0	10762.7	10804.9	10847.2	12055.7	13264.1	14554.8	15845.3	16203.5	15845.3
72.5°	7361.7	8569.5	9777.5	9807.8	9838.1	10783.6	11729.2	12695.8	13662.2	13698.5	13662.2
75°	5722.4	6972.6	8222.7	8334.9	8447.1	9182.8	9918.4	10598.8	11279.3	11097.0	11279.3
77.5°	4088.5	5255.5	6422.5	6583.2	6743.8	7303.0	7862.3	8344.8	8827.5	8514.2	8827.5
80°	2676.0	3657.7	4639.5	4839.0	5038.7	5461.1	5883.2	6136.7	6390.1	5886.0	6390.1
82.5°	1555.5	2226.7	2898.0	3120.9	3344.1	3634.8	3925.4	4031.2	4136.9	3740.7	4136.9
85°	684.4	1040.6	1396.9	1586.6	1776.2	2015.2	2253.9	2313.9	2373.9	2056.6	2373.9
87.5°	211.9	331.6	451.3	557.2	663.0	782.5	901.9	907.0	912.0	765.7	912.0
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2834.6	2830.1	2821.3	2812.4	2797.5	2782.7	2772.1	2761.7	2740.5	2719.3	2696.8
5°	3166.8	3154.8	3135.2	3115.5	3079.1	3042.8	3006.1	2969.6	2922.8	2875.9	2829.3
7.5°	3486.3	3468.9	3436.7	3404.4	3350.9	3297.4	3238.1	3178.5	3101.2	3024.1	2952.7
10°	3697.8	3680.8	3643.0	3604.9	3542.2	3479.4	3409.0	3338.6	3240.9	3143.4	3049.1
12.5°	3766.9	3757.6	3730.1	3702.5	3645.9	3589.1	3513.0	3436.7	3329.4	3222.2	3115.4
15°	3691.2	3701.1	3700.1	3699.1	3663.5	3627.9	3562.2	3496.3	3384.4	3272.6	3156.7
17.5°	3503.7	3540.1	3580.1	3620.0	3619.4	3618.8	3574.3	3529.8	3416.4	3303.0	3176.6
20°	3263.9	3328.0	3416.1	3504.2	3551.0	3597.9	3582.3	3566.8	3448.9	3330.9	3192.1
22.5°	3035.7	3115.9	3245.6	3375.1	3472.1	3569.0	3589.3	3609.6	3489.2	3368.7	3212.9
25°	2843.1	2927.5	3084.9	3242.3	3389.5	3536.8	3600.8	3664.8	3546.8	3428.8	3250.8
27.5°	2688.9	2771.8	2946.3	3120.7	3315.6	3510.6	3625.2	3739.7	3627.2	3514.5	3309.8
30°	2578.8	2655.8	2837.5	3019.1	3259.2	3499.2	3669.9	3840.8	3731.9	3623.3	3386.4
32.5°	2547.2	2607.7	2778.5	2949.2	3220.8	3492.4	3726.1	3960.0	3852.3	3744.6	3466.3
35°	2715.3	2729.5	2848.0	2966.7	3249.6	3532.6	3818.6	4104.8	4001.7	3898.6	3557.5
37.5°	3210.2	3145.7	3153.4	3161.1	3418.3	3675.4	4012.1	4348.8	4217.3	4085.9	3659.5
40°	4029.3	3872.6	3737.6	3602.6	3793.8	3985.1	4351.2	4717.3	4525.7	4334.1	3788.9
42.5°	5133.1	4848.1	4553.7	4259.3	4369.4	4479.6	4842.8	5206.1	4929.5	4653.0	3958.2
45°	6471.5	6003.2	5531.4	5059.7	5108.4	5157.0	5483.3	5809.6	5436.6	5063.7	4181.2
47.5°	7956.3	7270.7	6590.3	5909.8	5919.7	5929.5	6247.1	6564.5	6039.5	5514.5	4418.7
50°	9432.0	8527.2	7650.1	6773.1	6771.5	6769.7	7161.8	7553.8	6762.4	5970.9	4639.0
52.5°	10858.8	9739.2	8691.6	7644.0	7692.1	7740.1	8214.8	8689.5	7521.9	6354.1	4782.1
55°	12252.8	10918.1	9752.3	8586.3	8773.4	8960.6	9429.6	9898.7	8195.1	6491.5	4750.6
57.5°	13603.3	12091.5	10914.2	9736.9	10112.1	10487.5	10743.0	10998.5	8672.2	6346.0	4528.7
60°	15371.4	13752.7	12638.6	11524.5	11990.6	12456.7	12059.8	11663.1	8791.4	5919.7	4115.7
62.5°	16970.0	15429.9	14409.2	13388.7	13441.2	13493.7	12409.7	11325.6	8289.4	5253.1	3557.3
65°	17175.0	15681.7	14384.5	13087.5	12886.3	12685.0	11667.6	10650.1	7579.0	4507.8	2987.5
67.5°	16071.6	14571.8	13220.4	11869.1	11774.8	11680.4	10712.7	9745.0	6733.5	3722.2	2429.2
70°	14554.8	13264.1	12055.7	10847.2	10804.9	10762.7	9710.0	8657.6	5811.1	2964.7	1912.8
72.5°	12695.8	11729.2	10783.6	9838.1	9807.8	9777.5	8569.5	7361.7	4811.0	2260.6	1462.3
75°	10598.8	9918.4	9182.8	8447.1	8334.9	8222.7	6972.6	5722.4	3664.7	1607.1	1061.3
77.5°	8344.8	7862.3	7303.0	6743.8	6583.2	6422.5	5255.5	4088.5	2565.0	1041.4	719.1
80°	6136.7	5883.2	5461.1	5038.7	4839.0	4639.5	3657.7	2676.0	1652.6	629.2	463.4
82.5°	4031.2	3925.4	3634.8	3344.1	3120.9	2898.0	2226.7	1555.5	956.4	357.5	285.0
85°	2313.9	2253.9	2015.2	1776.2	1586.6	1396.9	1040.6	684.4	430.2	176.2	152.3
87.5°	907.0	901.9	782.5	663.0	557.2	451.3	331.6	211.9	140.9	70.0	63.1
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°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2674.2	2651.6	2628.9	2607.3	2585.6	2564.5	2541.3	2522.3	2503.5	2486.4	2469.5
5°	2782.7	2735.6	2688.8	2644.9	2601.0	2559.6	2518.7	2483.1	2447.3	2417.4	2387.5
7.5°	2881.4	2812.0	2742.5	2681.3	2620.1	2563.6	2510.7	2463.2	2415.8	2376.4	2337.0
10°	2954.9	2870.5	2786.1	2713.7	2641.1	2571.5	2514.6	2464.6	2414.5	2375.1	2335.7
12.5°	3008.6	2909.1	2809.4	2727.6	2645.7	2572.4	2519.6	2478.6	2437.8	2411.5	2385.6
15°	3040.9	2926.3	2811.7	2716.9	2622.1	2541.0	2498.5	2479.0	2459.5	2463.0	2466.6
17.5°	3050.1	2917.0	2784.0	2670.0	2556.0	2460.6	2434.5	2441.8	2448.8	2491.8	2534.7
20°	3053.1	2891.8	2730.6	2589.4	2448.0	2337.0	2330.0	2363.5	2397.1	2471.7	2546.4
22.5°	3057.1	2860.9	2664.8	2494.6	2324.4	2198.0	2211.5	2261.0	2310.7	2395.8	2481.1
25°	3072.5	2830.3	2588.2	2388.9	2189.6	2060.0	2096.5	2153.6	2210.8	2287.4	2364.1
27.5°	3105.1	2809.9	2514.8	2292.2	2069.6	1951.7	1996.0	2051.2	2106.4	2169.3	2232.2
30°	3149.6	2800.4	2451.0	2211.4	1971.9	1872.8	1907.6	1951.4	1995.3	2047.5	2099.7
32.5°	3188.1	2788.6	2388.9	2141.7	1894.5	1814.7	1830.1	1856.1	1882.0	1923.6	1965.4
35°	3216.2	2766.3	2316.6	2073.3	1829.9	1763.4	1757.1	1764.1	1771.3	1803.2	1834.9
37.5°	3233.1	2728.1	2223.3	1992.6	1762.0	1703.9	1680.4	1672.5	1664.6	1687.5	1710.2
40°	3243.5	2675.7	2107.8	1896.5	1685.1	1632.4	1596.4	1578.6	1560.8	1577.2	1593.7
42.5°	3263.6	2621.4	1979.6	1790.4	1601.2	1552.6	1507.3	1483.6	1459.9	1473.3	1486.9
45°	3298.8	2571.1	1843.6	1677.6	1511.7	1462.4	1418.5	1395.4	1372.5	1383.7	1395.1
47.5°	3322.8	2529.5	1736.1	1588.4	1440.7	1377.2	1339.4	1320.1	1300.7	1311.4	1321.9
50°	3307.2	2484.2	1661.2	1529.2	1397.2	1313.5	1269.8	1252.6	1235.5	1252.1	1268.7
52.5°	3210.1	2407.6	1605.3	1490.1	1375.1	1279.1	1217.8	1200.9	1184.0	1208.9	1233.8
55°	3009.5	2280.7	1551.8	1461.9	1372.0	1282.6	1190.2	1163.4	1136.7	1172.1	1207.3
57.5°	2711.4	2101.8	1492.0	1428.3	1364.8	1286.0	1173.6	1134.7	1095.6	1133.6	1171.7
60°	2311.7	1869.4	1427.1	1377.2	1327.2	1275.2	1158.0	1107.5	1056.9	1090.3	1123.6
62.5°	1861.3	1591.3	1321.2	1288.0	1254.9	1248.6	1139.9	1076.7	1013.5	1034.7	1055.9
65°	1467.1	1341.1	1215.0	1199.4	1183.7	1184.5	1101.7	1034.5	967.2	975.4	983.5
67.5°	1136.4	1100.6	1064.8	1073.5	1082.2	1080.0	1033.5	977.5	921.6	919.0	916.5
70°	860.8	871.0	881.2	921.8	962.3	962.3	947.0	907.2	867.4	858.5	849.6
72.5°	664.0	694.8	725.8	783.3	840.8	850.4	850.6	823.3	796.0	783.0	770.1
75°	515.6	543.6	571.5	636.0	700.5	745.0	741.3	720.3	699.2	686.7	674.2
77.5°	397.0	415.9	435.1	497.6	560.3	633.7	631.7	614.8	598.0	585.4	572.8
80°	297.6	305.4	313.3	366.3	419.3	507.0	506.8	492.6	478.5	467.9	457.3
82.5°	212.7	214.0	215.7	254.6	293.7	368.6	372.7	365.8	358.9	351.4	343.9
85°	128.6	127.9	127.1	155.7	184.3	240.0	245.4	238.0	230.6	222.2	213.8
87.5°	56.4	55.7	54.9	66.6	78.3	101.5	108.4	105.5	102.5	100.9	99.3
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: P963137

CATALOG NUMBER: NAV-SB2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2454.6	2439.7	2424.7	2409.9	2398.4	2386.7	2377.4	2368.0	2360.7	2353.4	2346.7
5°	2361.1	2334.6	2310.8	2286.7	2268.2	2249.8	2236.9	2223.9	2214.7	2205.6	2198.6
7.5°	2303.8	2270.5	2241.1	2211.8	2189.8	2168.0	2152.6	2137.2	2126.7	2116.2	2110.0
10°	2299.9	2264.0	2231.0	2198.0	2171.8	2145.5	2128.3	2111.0	2101.0	2091.1	2085.8
12.5°	2357.4	2329.4	2295.2	2261.0	2227.5	2194.1	2171.9	2149.7	2138.6	2127.6	2123.0
15°	2459.3	2452.0	2422.3	2392.7	2344.9	2297.2	2263.5	2229.9	2214.4	2199.0	2193.1
17.5°	2557.6	2580.3	2556.5	2532.6	2469.4	2406.2	2356.6	2306.9	2284.0	2261.0	2253.6
20°	2594.2	2641.9	2630.9	2619.8	2547.5	2475.4	2414.5	2353.7	2324.4	2295.1	2285.8
22.5°	2543.3	2605.4	2612.2	2618.8	2549.8	2480.8	2418.2	2355.3	2324.5	2293.6	2283.3
25°	2425.3	2486.4	2509.3	2532.1	2475.5	2419.0	2363.2	2307.7	2280.9	2254.2	2244.4
27.5°	2281.2	2330.3	2355.8	2381.3	2341.0	2300.8	2257.6	2214.3	2196.4	2178.3	2173.8
30°	2140.5	2181.3	2201.9	2222.6	2192.0	2161.2	2130.4	2099.2	2090.0	2080.8	2080.8
32.5°	2004.5	2043.6	2066.6	2089.6	2061.5	2033.2	2008.4	1983.7	1977.6	1971.7	1972.4
35°	1873.5	1912.2	1939.8	1967.4	1947.3	1927.3	1904.4	1881.7	1872.6	1863.4	1861.5
37.5°	1748.8	1787.4	1821.5	1855.6	1846.3	1837.0	1816.1	1795.0	1778.3	1761.8	1753.0
40°	1630.9	1668.2	1707.3	1746.7	1749.0	1751.1	1733.3	1715.4	1691.2	1667.2	1650.8
42.5°	1522.1	1557.5	1599.8	1642.3	1653.5	1664.9	1649.8	1634.9	1604.7	1574.7	1550.9
45°	1428.6	1462.2	1506.1	1550.1	1566.3	1582.6	1569.0	1555.5	1521.1	1486.9	1459.0
47.5°	1354.7	1387.5	1430.9	1474.3	1492.9	1511.7	1502.2	1492.7	1462.2	1431.6	1405.8
50°	1299.7	1330.6	1369.4	1408.1	1432.2	1456.3	1455.7	1455.3	1430.9	1406.4	1382.5
52.5°	1262.2	1290.5	1326.6	1362.8	1391.3	1419.8	1425.0	1430.1	1410.2	1390.2	1368.9
55°	1237.9	1268.4	1300.2	1331.8	1362.0	1392.3	1399.3	1406.4	1389.1	1371.8	1353.0
57.5°	1207.6	1243.4	1274.8	1306.2	1336.6	1367.0	1374.2	1381.4	1363.9	1346.3	1327.8
60°	1164.8	1206.0	1237.8	1269.8	1300.3	1330.9	1338.8	1346.6	1329.4	1312.4	1293.2
62.5°	1103.9	1152.0	1185.9	1220.0	1247.9	1275.9	1283.5	1291.1	1275.6	1260.1	1240.0
65°	1034.9	1086.4	1119.0	1151.5	1176.1	1200.8	1208.6	1216.3	1201.3	1186.4	1167.0
67.5°	963.9	1011.6	1042.4	1073.2	1094.4	1115.7	1123.3	1130.8	1117.0	1103.5	1085.4
70°	891.4	933.2	959.8	986.5	1005.6	1024.9	1032.2	1039.5	1028.3	1017.2	999.8
72.5°	803.0	835.9	859.9	884.0	902.7	921.6	930.3	938.9	929.7	920.3	903.8
75°	698.6	723.1	744.9	766.7	783.8	800.9	810.1	819.1	814.6	810.1	796.1
77.5°	592.7	612.4	631.2	649.8	667.9	685.8	694.3	702.8	696.5	690.0	676.0
80°	473.8	490.3	506.0	521.8	535.5	549.1	560.4	571.5	568.8	566.1	547.3
82.5°	342.6	341.1	335.7	330.2	359.3	388.5	407.5	426.7	425.5	424.2	408.4
85°	206.7	199.6	184.3	169.0	196.3	223.7	247.3	271.0	269.1	267.0	254.6
87.5°	99.0	98.7	87.1	75.3	86.8	98.3	107.9	117.5	115.1	112.5	106.2
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: P963137

CATALOG NUMBER: NAV-SB2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2339.9	2331.6	2339.9	2346.7	2353.4	2360.7	2368.0	2377.4	2386.7	2398.4	2409.9
5°	2191.7	2184.7	2191.7	2198.6	2205.6	2214.7	2223.9	2236.9	2249.8	2268.2	2286.7
7.5°	2103.7	2099.0	2103.7	2110.0	2116.2	2126.7	2137.2	2152.6	2168.0	2189.8	2211.8
10°	2080.4	2078.3	2080.4	2085.8	2091.1	2101.0	2111.0	2128.3	2145.5	2171.8	2198.0
12.5°	2118.5	2117.6	2118.5	2123.0	2127.6	2138.6	2149.7	2171.9	2194.1	2227.5	2261.0
15°	2187.1	2186.6	2187.1	2193.1	2199.0	2214.4	2229.9	2263.5	2297.2	2344.9	2392.7
17.5°	2246.0	2244.9	2246.0	2253.6	2261.0	2284.0	2306.9	2356.6	2406.2	2469.4	2532.6
20°	2276.3	2273.3	2276.3	2285.8	2295.1	2324.4	2353.7	2414.5	2475.4	2547.5	2619.8
22.5°	2272.9	2268.4	2272.9	2283.3	2293.6	2324.5	2355.3	2418.2	2480.8	2549.8	2618.8
25°	2234.8	2229.1	2234.8	2244.4	2254.2	2280.9	2307.7	2363.2	2419.0	2475.5	2532.1
27.5°	2169.4	2168.0	2169.4	2173.8	2178.3	2196.4	2214.3	2257.6	2300.8	2341.0	2381.3
30°	2080.8	2082.2	2080.8	2080.8	2080.8	2090.0	2099.2	2130.4	2161.2	2192.0	2222.6
32.5°	1973.3	1974.8	1973.3	1972.4	1971.7	1977.6	1983.7	2008.4	2033.2	2061.5	2089.6
35°	1859.6	1858.5	1859.6	1861.5	1863.4	1872.6	1881.7	1904.4	1927.3	1947.3	1967.4
37.5°	1744.2	1739.3	1744.2	1753.0	1761.8	1778.3	1795.0	1816.1	1837.0	1846.3	1855.6
40°	1634.7	1624.9	1634.7	1650.8	1667.2	1691.2	1715.4	1733.3	1751.1	1749.0	1746.7
42.5°	1527.2	1511.7	1527.2	1550.9	1574.7	1604.7	1634.9	1649.8	1664.9	1653.5	1642.3
45°	1431.0	1413.1	1431.0	1459.0	1486.9	1521.1	1555.5	1569.0	1582.6	1566.3	1550.1
47.5°	1380.1	1362.8	1380.1	1405.8	1431.6	1462.2	1492.7	1502.2	1511.7	1492.9	1474.3
50°	1358.7	1342.1	1358.7	1382.5	1406.4	1430.9	1455.3	1455.7	1456.3	1432.2	1408.1
52.5°	1347.6	1332.3	1347.6	1368.9	1390.2	1410.2	1430.1	1425.0	1419.8	1391.3	1362.8
55°	1334.2	1320.5	1334.2	1353.0	1371.8	1389.1	1406.4	1399.3	1392.3	1362.0	1331.8
57.5°	1309.1	1294.9	1309.1	1327.8	1346.3	1363.9	1381.4	1374.2	1367.0	1336.6	1306.2
60°	1274.2	1259.4	1274.2	1293.2	1312.4	1329.4	1346.6	1338.8	1330.9	1300.3	1269.8
62.5°	1220.0	1202.2	1220.0	1240.0	1260.1	1275.6	1291.1	1283.5	1275.9	1247.9	1220.0
65°	1147.5	1132.2	1147.5	1167.0	1186.4	1201.3	1216.3	1208.6	1200.8	1176.1	1151.5
67.5°	1067.2	1053.4	1067.2	1085.4	1103.5	1117.0	1130.8	1123.3	1115.7	1094.4	1073.2
70°	982.5	966.7	982.5	999.8	1017.2	1028.3	1039.5	1032.2	1024.9	1005.6	986.5
72.5°	887.3	872.1	887.3	903.8	920.3	929.7	938.9	930.3	921.6	902.7	884.0
75°	782.3	767.6	782.3	796.1	810.1	814.6	819.1	810.1	800.9	783.8	766.7
77.5°	662.0	650.4	662.0	676.0	690.0	696.5	702.8	694.3	685.8	667.9	649.8
80°	528.4	506.6	528.4	547.3	566.1	568.8	571.5	560.4	549.1	535.5	521.8
82.5°	392.4	378.4	392.4	408.4	424.2	425.5	426.7	407.5	388.5	359.3	330.2
85°	242.2	229.6	242.2	254.6	267.0	269.1	271.0	247.3	223.7	196.3	169.0
87.5°	99.7	93.6	99.7	106.2	112.5	115.1	117.5	107.9	98.3	86.8	75.3
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: P963137

CATALOG NUMBER: NAV-SB2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2424.7	2439.7	2454.6	2469.5	2486.4	2503.5	2522.3	2541.3	2564.5	2585.6	2607.3
5°	2310.8	2334.6	2361.1	2387.5	2417.4	2447.3	2483.1	2518.7	2559.6	2601.0	2644.9
7.5°	2241.1	2270.5	2303.8	2337.0	2376.4	2415.8	2463.2	2510.7	2563.6	2620.1	2681.3
10°	2231.0	2264.0	2299.9	2335.7	2375.1	2414.5	2464.6	2514.6	2571.5	2641.1	2713.7
12.5°	2295.2	2329.4	2357.4	2385.6	2411.5	2437.8	2478.6	2519.6	2572.4	2645.7	2727.6
15°	2422.3	2452.0	2459.3	2466.6	2463.0	2459.5	2479.0	2498.5	2541.0	2622.1	2716.9
17.5°	2556.5	2580.3	2557.6	2534.7	2491.8	2448.8	2441.8	2434.5	2460.6	2556.0	2670.0
20°	2630.9	2641.9	2594.2	2546.4	2471.7	2397.1	2363.5	2330.0	2337.0	2448.0	2589.4
22.5°	2612.2	2605.4	2543.3	2481.1	2395.8	2310.7	2261.0	2211.5	2198.0	2324.4	2494.6
25°	2509.3	2486.4	2425.3	2364.1	2287.4	2210.8	2153.6	2096.5	2060.0	2189.6	2388.9
27.5°	2355.8	2330.3	2281.2	2232.2	2169.3	2106.4	2051.2	1996.0	1951.7	2069.6	2292.2
30°	2201.9	2181.3	2140.5	2099.7	2047.5	1995.3	1951.4	1907.6	1872.8	1971.9	2211.4
32.5°	2066.6	2043.6	2004.5	1965.4	1923.6	1882.0	1856.1	1830.1	1814.7	1894.5	2141.7
35°	1939.8	1912.2	1873.5	1834.9	1803.2	1771.3	1764.1	1757.1	1763.4	1829.9	2073.3
37.5°	1821.5	1787.4	1748.8	1710.2	1687.5	1664.6	1672.5	1680.4	1703.9	1762.0	1992.6
40°	1707.3	1668.2	1630.9	1593.7	1577.2	1560.8	1578.6	1596.4	1632.4	1685.1	1896.5
42.5°	1599.8	1557.5	1522.1	1486.9	1473.3	1459.9	1483.6	1507.3	1552.6	1601.2	1790.4
45°	1506.1	1462.2	1428.6	1395.1	1383.7	1372.5	1395.4	1418.5	1462.4	1511.7	1677.6
47.5°	1430.9	1387.5	1354.7	1321.9	1311.4	1300.7	1320.1	1339.4	1377.2	1440.7	1588.4
50°	1369.4	1330.6	1299.7	1268.7	1252.1	1235.5	1252.6	1269.8	1313.5	1397.2	1529.2
52.5°	1326.6	1290.5	1262.2	1233.8	1208.9	1184.0	1200.9	1217.8	1279.1	1375.1	1490.1
55°	1300.2	1268.4	1237.9	1207.3	1172.1	1136.7	1163.4	1190.2	1282.6	1372.0	1461.9
57.5°	1274.8	1243.4	1207.6	1171.7	1133.6	1095.6	1134.7	1173.6	1286.0	1364.8	1428.3
60°	1237.8	1206.0	1164.8	1123.6	1090.3	1056.9	1107.5	1158.0	1275.2	1327.2	1377.2
62.5°	1185.9	1152.0	1103.9	1055.9	1034.7	1013.5	1076.7	1139.9	1248.6	1254.9	1288.0
65°	1119.0	1086.4	1034.9	983.5	975.4	967.2	1034.5	1101.7	1184.5	1183.7	1199.4
67.5°	1042.4	1011.6	963.9	916.5	919.0	921.6	977.5	1033.5	1080.0	1082.2	1073.5
70°	959.8	933.2	891.4	849.6	858.5	867.4	907.2	947.0	962.3	962.3	921.8
72.5°	859.9	835.9	803.0	770.1	783.0	796.0	823.3	850.6	850.4	840.8	783.3
75°	744.9	723.1	698.6	674.2	686.7	699.2	720.3	741.3	745.0	700.5	636.0
77.5°	631.2	612.4	592.7	572.8	585.4	598.0	614.8	631.7	633.7	560.3	497.6
80°	506.0	490.3	473.8	457.3	467.9	478.5	492.6	506.8	507.0	419.3	366.3
82.5°	335.7	341.1	342.6	343.9	351.4	358.9	365.8	372.7	368.6	293.7	254.6
85°	184.3	199.6	206.7	213.8	222.2	230.6	238.0	245.4	240.0	184.3	155.7
87.5°	87.1	98.7	99.0	99.3	100.9	102.5	105.5	108.4	101.5	78.3	66.6
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: P963137

CATALOG NUMBER: NAV-SB2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2628.9	2651.6	2674.2	2696.8	2719.3	2740.5	2761.7
5°	2688.8	2735.6	2782.7	2829.3	2875.9	2922.8	2969.6
7.5°	2742.5	2812.0	2881.4	2952.7	3024.1	3101.2	3178.5
10°	2786.1	2870.5	2954.9	3049.1	3143.4	3240.9	3338.6
12.5°	2809.4	2909.1	3008.6	3115.4	3222.2	3329.4	3436.7
15°	2811.7	2926.3	3040.9	3156.7	3272.6	3384.4	3496.3
17.5°	2784.0	2917.0	3050.1	3176.6	3303.0	3416.4	3529.8
20°	2730.6	2891.8	3053.1	3192.1	3330.9	3448.9	3566.8
22.5°	2664.8	2860.9	3057.1	3212.9	3368.7	3489.2	3609.6
25°	2588.2	2830.3	3072.5	3250.8	3428.8	3546.8	3664.8
27.5°	2514.8	2809.9	3105.1	3309.8	3514.5	3627.2	3739.7
30°	2451.0	2800.4	3149.6	3386.4	3623.3	3731.9	3840.8
32.5°	2388.9	2788.6	3188.1	3466.3	3744.6	3852.3	3960.0
35°	2316.6	2766.3	3216.2	3557.5	3898.6	4001.7	4104.8
37.5°	2223.3	2728.1	3233.1	3659.5	4085.9	4217.3	4348.8
40°	2107.8	2675.7	3243.5	3788.9	4334.1	4525.7	4717.3
42.5°	1979.6	2621.4	3263.6	3958.2	4653.0	4929.5	5206.1
45°	1843.6	2571.1	3298.8	4181.2	5063.7	5436.6	5809.6
47.5°	1736.1	2529.5	3322.8	4418.7	5514.5	6039.5	6564.5
50°	1661.2	2484.2	3307.2	4639.0	5970.9	6762.4	7553.8
52.5°	1605.3	2407.6	3210.1	4782.1	6354.1	7521.9	8689.5
55°	1551.8	2280.7	3009.5	4750.6	6491.5	8195.1	9898.7
57.5°	1492.0	2101.8	2711.4	4528.7	6346.0	8672.2	10998.5
60°	1427.1	1869.4	2311.7	4115.7	5919.7	8791.4	11663.1
62.5°	1321.2	1591.3	1861.3	3557.3	5253.1	8289.4	11325.6
65°	1215.0	1341.1	1467.1	2987.5	4507.8	7579.0	10650.1
67.5°	1064.8	1100.6	1136.4	2429.2	3722.2	6733.5	9745.0
70°	881.2	871.0	860.8	1912.8	2964.7	5811.1	8657.6
72.5°	725.8	694.8	664.0	1462.3	2260.6	4811.0	7361.7
75°	571.5	543.6	515.6	1061.3	1607.1	3664.7	5722.4
77.5°	435.1	415.9	397.0	719.1	1041.4	2565.0	4088.5
80°	313.3	305.4	297.6	463.4	629.2	1652.6	2676.0
82.5°	215.7	214.0	212.7	285.0	357.5	956.4	1555.5
85°	127.1	127.9	128.6	152.3	176.2	430.2	684.4
87.5°	54.9	55.7	56.4	63.1	70.0	140.9	211.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)