

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: P966586

Luminaire Tested: **NAV-SB4C-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P966586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB4C-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25755.2 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

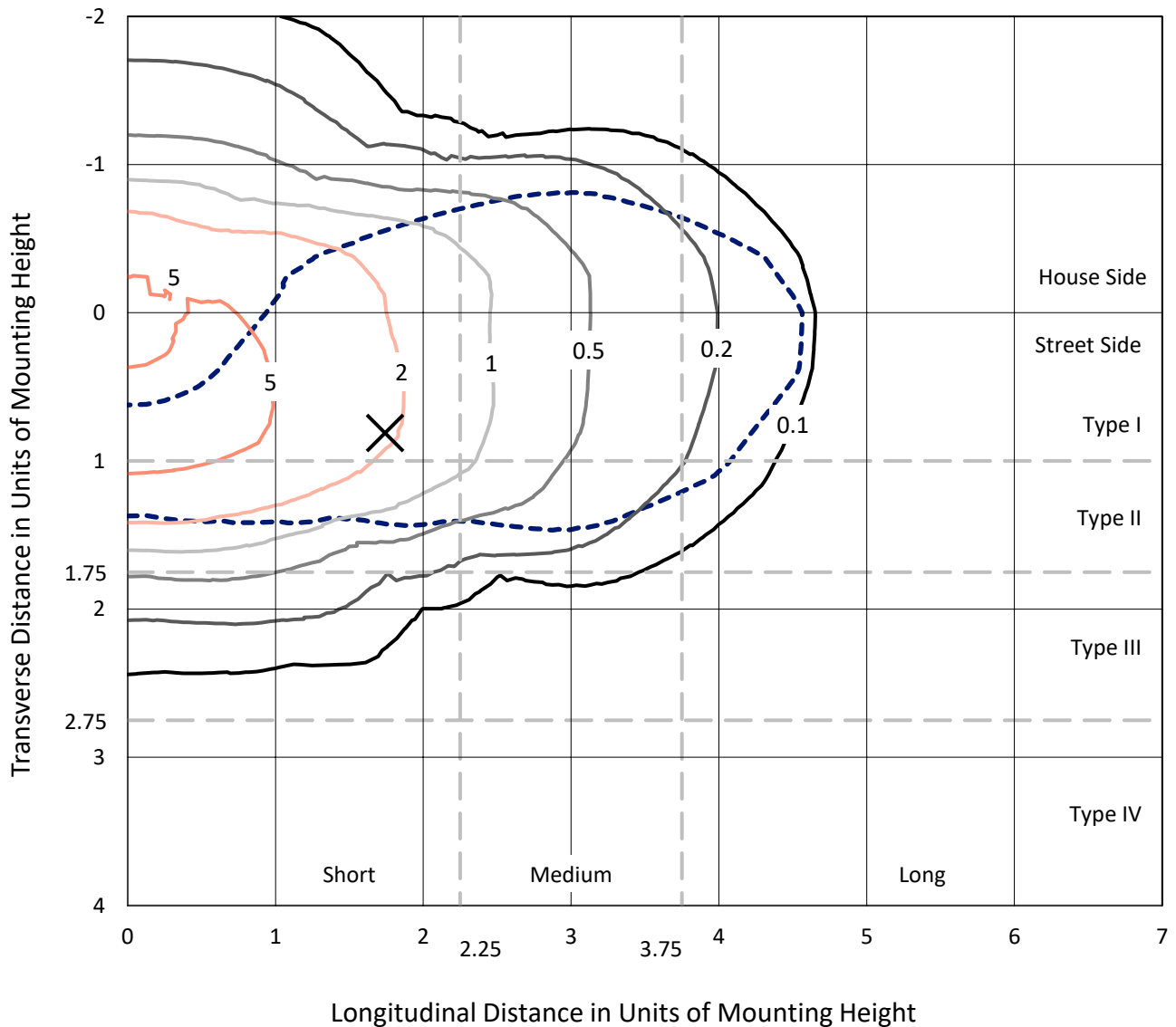
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

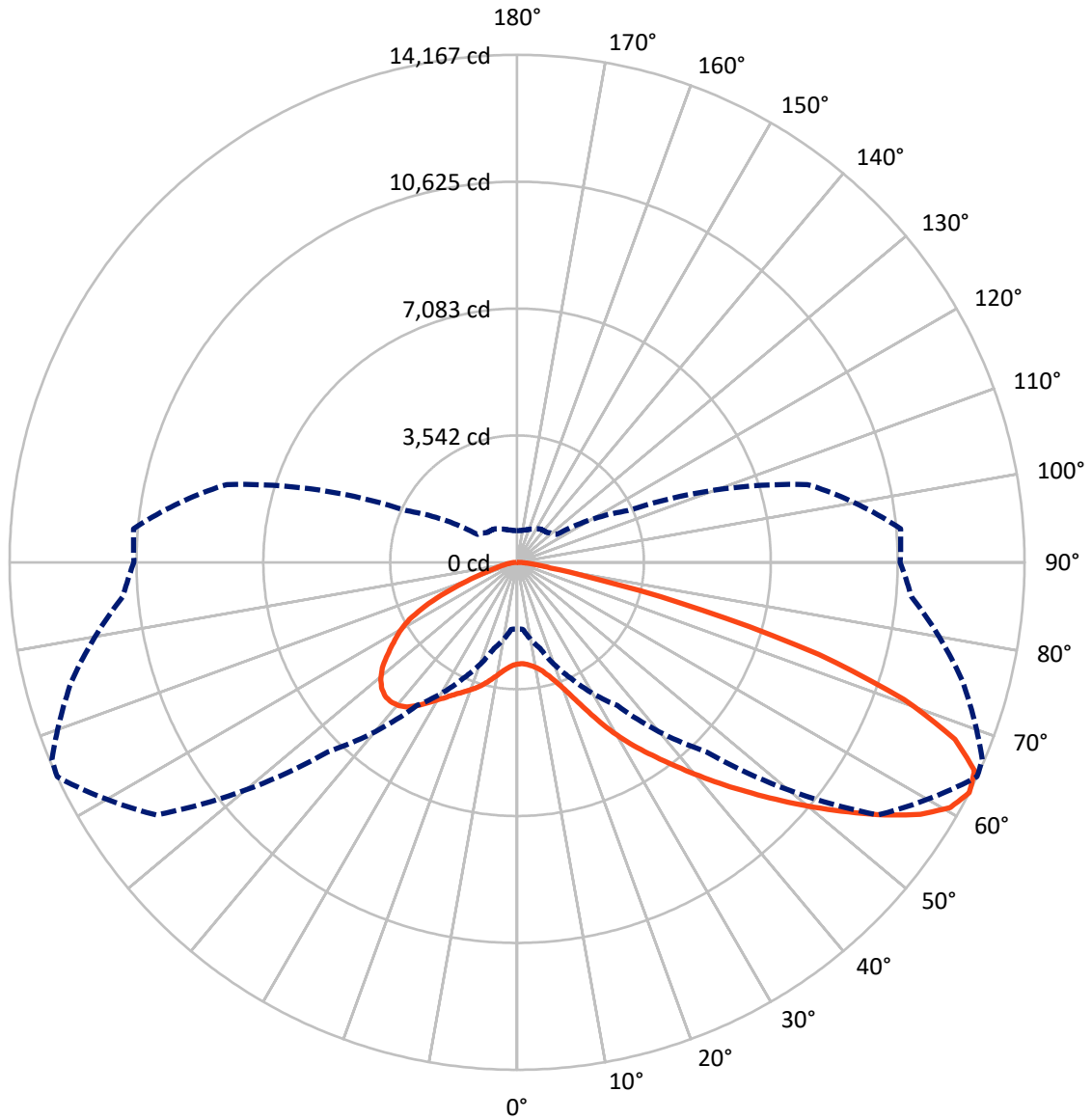
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8127.2	0.0	8127.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	17628.0	0.0	17628.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	25755.2	0.0	25755.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.0	1.1
10°-20°	959.5	3.7
20°-30°	1945.6	7.6
30°-40°	3366.7	13.1
40°-50°	5094.9	19.8
50°-60°	5973.5	23.2
60°-70°	5008.0	19.4
70°-80°	2764.8	10.7
80°-90°	359.1	1.4
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°	25755.2	100.0
0°-180°	25755.2	100.0

**Coefficient of Utilization**

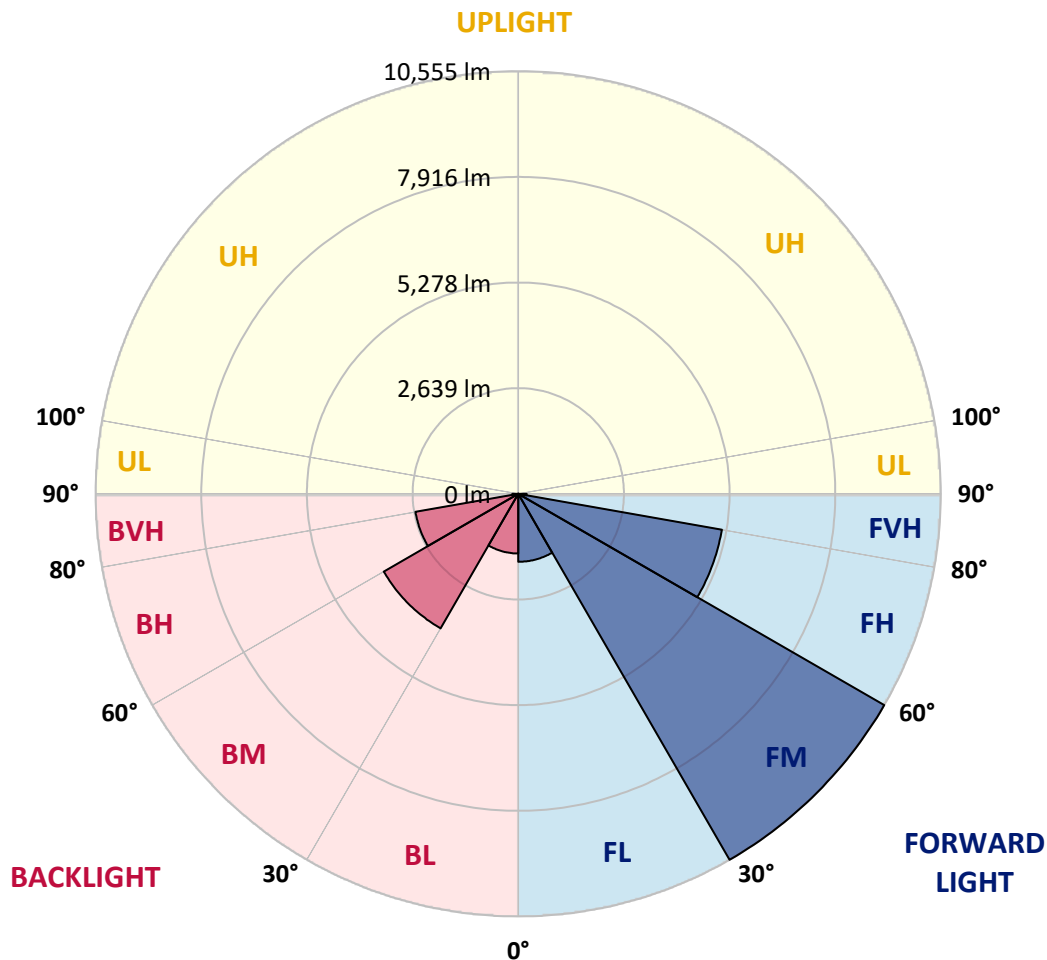


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1697.6	6.6			
FM (30°-60°)	10555.3	41.0			
FH (60°-80°)	5165.7	20.1			G3/7500
FVH (80°-90°)	209.3	0.8			G2/225
BL (0°-30°)	1490.4	5.8	B3/2500		
BM (30°-60°)	3879.8	15.1	B3/5000		
BH (60°-80°)	2607.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	149.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1
2.5°	2819.4	2811.4	2818.0	2818.0	2820.7	2819.4	2828.8	2831.5	2835.5	2843.5	2843.5
5°	2791.4	2790.0	2802.0	2812.7	2823.4	2832.8	2844.8	2862.2	2864.9	2874.2	2886.2
7.5°	2782.0	2774.0	2792.7	2806.0	2831.5	2854.1	2886.2	2915.6	2927.6	2931.6	2954.4
10°	2854.1	2840.8	2858.1	2866.2	2887.5	2910.3	2947.7	2994.4	3007.8	3023.9	3049.3
12.5°	2977.1	2962.4	2987.8	2999.8	3019.9	3039.8	3065.3	3110.7	3117.3	3146.7	3170.8
15°	3145.4	3128.1	3144.1	3158.8	3192.2	3210.9	3236.3	3280.4	3280.4	3303.1	3320.5
17.5°	3373.9	3351.2	3363.2	3368.6	3390.0	3418.1	3460.8	3499.6	3519.5	3511.5	3487.5
20°	3714.7	3686.6	3686.6	3659.9	3651.9	3674.6	3730.7	3784.1	3805.5	3764.1	3705.3
22.5°	4226.4	4186.3	4163.7	4072.7	4036.7	4039.3	4095.5	4161.0	4178.3	4104.8	3972.6
25°	4877.2	4814.3	4783.7	4650.0	4568.5	4497.7	4541.8	4625.9	4650.0	4559.1	4345.4
27.5°	5527.9	5531.9	5502.5	5342.2	5207.2	5077.6	5054.9	5143.0	5168.5	5065.5	4801.0
30°	6440.5	6345.7	6289.5	6097.1	5904.7	5723.0	5629.4	5665.5	5672.2	5549.2	5242.0
32.5°	7227.6	7203.5	7083.3	6914.9	6667.7	6383.1	6226.8	6169.3	6158.6	5983.5	5618.7
35°	8124.2	8110.8	7983.8	7783.4	7516.2	7120.7	6838.7	6674.4	6661.0	6415.2	5991.5
37.5°	9035.5	9035.5	8911.1	8692.0	8415.5	7921.1	7492.1	7231.6	7188.8	6868.1	6371.1
40°	9762.3	9718.2	9741.0	9648.7	9332.1	8807.0	8217.7	7839.5	7782.1	7397.2	6774.5
42.5°	10175.3	10160.5	10296.8	10399.8	10270.1	9850.6	9016.7	8498.3	8418.1	7979.8	7239.6
45°	10267.4	10251.4	10494.6	10871.4	11053.1	10880.8	9885.3	9191.8	9094.2	8589.2	7738.0
47.5°	10054.9	10022.9	10379.7	10974.3	11556.9	11860.2	10825.9	9944.0	9802.4	9182.5	8249.7
50°	9416.3	9385.5	9925.4	10715.0	11726.6	12525.6	11846.8	10741.8	10525.3	9818.5	8766.8
52.5°	8027.9	8042.7	8888.5	9973.5	11503.5	12939.8	12726.1	11582.3	11321.7	10469.2	9252.0
55°	6253.4	6285.5	7325.1	8519.7	10610.8	12877.1	13326.0	12448.1	12188.9	11081.2	9753.0
57.5°	4477.6	4619.3	5593.3	6776.0	8896.5	11881.6	13456.9	13271.2	13020.1	11749.3	10243.3
60°	2902.3	2927.6	3929.7	5121.7	6774.5	10112.4	13191.0	13895.2	13698.8	12430.8	10653.6
62.5°	1860.0	1877.4	2488.0	3582.4	4875.8	7481.5	12295.8	14166.5	14106.4	12881.1	11047.8
65°	1366.9	1353.6	1671.6	2367.8	3284.4	4613.9	10557.4	14035.5	14154.4	13162.9	11373.8
67.5°	1141.1	1122.4	1278.8	1639.5	2419.9	2620.3	7811.5	13184.4	13620.0	13131.0	11613.0
70°	1039.6	1023.6	1118.4	1217.3	1888.0	1754.5	3937.8	11462.0	12132.8	12766.2	11574.2
72.5°	880.6	852.5	982.2	1081.0	1468.5	1345.5	1627.5	8804.2	9622.1	11597.0	11029.1
75°	682.8	664.1	775.0	951.4	1103.7	1050.2	1028.9	5346.2	6238.8	8968.6	9648.7
77.5°	541.2	515.8	617.4	741.6	992.8	792.3	749.6	2302.3	3186.8	5725.6	7219.6
80°	407.5	384.8	469.0	586.6	763.0	597.3	485.0	939.3	1201.3	2901.0	3630.4
82.5°	290.0	269.9	327.4	430.3	513.1	535.9	298.0	526.4	591.9	1118.4	811.1
85°	185.7	173.7	219.1	269.9	326.1	344.7	181.7	275.2	302.0	460.9	338.0
87.5°	101.6	82.8	117.6	125.6	151.0	137.7	86.8	100.2	108.2	167.1	143.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1	2838.1
2.5°	2848.8	2852.8	2866.2	2870.2	2879.5	2891.5	2899.6	2907.6	2907.6	2915.6	2915.6
5°	2887.5	2896.9	2924.9	2939.7	2963.7	2987.8	3002.4	3019.9	3030.5	3035.8	3038.5
7.5°	2962.4	2977.1	3017.2	3042.5	3084.0	3117.3	3140.1	3164.2	3169.5	3184.2	3178.8
10°	3063.9	3081.3	3126.8	3174.8	3224.2	3265.6	3287.1	3304.4	3311.2	3313.8	3307.2
12.5°	3180.2	3205.6	3264.3	3323.2	3375.2	3411.3	3416.7	3412.6	3394.0	3377.9	3377.9
15°	3323.2	3345.9	3411.3	3475.5	3526.3	3533.0	3499.6	3478.1	3455.5	3451.4	3451.4
17.5°	3494.2	3506.2	3566.4	3629.1	3633.1	3610.5	3561.0	3541.0	3519.5	3504.9	3506.2
20°	3693.3	3689.3	3732.0	3758.8	3730.7	3661.2	3586.4	3553.0	3531.6	3514.2	3515.5
22.5°	3931.1	3900.4	3895.0	3888.3	3813.5	3667.9	3566.4	3523.5	3490.2	3466.1	3474.1
25°	4277.2	4159.7	4078.1	4032.7	3864.4	3631.8	3502.2	3407.3	3344.6	3303.1	3319.2
27.5°	4710.2	4512.4	4306.6	4195.7	3864.4	3558.3	3347.2	3193.5	3090.7	3047.9	3069.3
30°	5123.1	4915.9	4612.6	4392.1	3854.9	3438.1	3097.3	2883.5	2763.3	2720.6	2745.9
32.5°	5475.8	5249.9	4937.3	4607.3	3832.3	3243.0	2787.3	2550.8	2434.6	2383.8	2409.2
35°	5803.1	5562.7	5263.4	4843.7	3772.1	2957.0	2446.6	2266.2	2136.6	2055.1	2081.8
37.5°	6138.5	5852.6	5572.0	5057.6	3663.9	2623.0	2184.7	2031.0	1878.7	1769.2	1798.6
40°	6503.3	6161.3	5902.1	5184.4	3486.1	2304.9	1981.6	1841.3	1679.6	1563.3	1586.1
42.5°	6929.6	6531.4	6269.5	5249.9	3243.0	2079.1	1849.3	1711.6	1559.3	1464.5	1483.2
45°	7374.6	6938.9	6604.9	5248.6	2971.7	1973.5	1806.6	1670.2	1501.9	1403.0	1419.0
47.5°	7840.8	7365.1	6894.9	5163.1	2736.5	1988.3	1782.5	1580.8	1395.0	1298.8	1312.2
50°	8308.5	7831.5	7175.4	5002.7	2636.3	1956.2	1693.0	1455.1	1235.9	1149.1	1154.5
52.5°	8772.3	8327.3	7417.3	4774.2	2534.8	1837.3	1578.1	1292.1	1170.6	1110.4	1110.4
55°	9238.5	8817.7	7680.5	4441.5	2280.9	1698.3	1385.7	1230.6	1118.4	1063.6	1058.3
57.5°	9706.2	9384.2	7930.4	4108.8	1961.5	1527.2	1280.1	1155.8	1066.3	1019.6	1011.5
60°	10192.6	10032.3	8188.3	3802.9	1646.3	1308.1	1202.6	1095.7	1004.8	952.7	948.7
62.5°	10693.7	10745.8	8390.0	3408.6	1356.3	1174.5	1133.1	1023.6	935.3	885.9	884.6
65°	11198.7	11434.0	8522.4	2862.2	1099.7	1047.6	1058.3	944.7	855.2	812.4	811.1
67.5°	11579.6	11929.7	8484.9	2166.0	901.9	927.3	964.7	861.8	777.7	744.3	745.6
70°	11622.4	11870.8	8116.2	1483.2	754.9	809.7	860.5	780.3	693.5	669.4	670.8
72.5°	11053.1	11069.2	7088.6	968.7	638.7	710.8	750.9	697.5	613.4	589.3	587.9
75°	9560.6	9154.4	5204.5	638.7	534.4	610.7	648.1	610.7	529.1	534.4	515.8
77.5°	7243.6	6483.3	3160.2	454.3	446.3	513.1	563.9	537.2	467.7	525.1	462.4
80°	3732.0	3507.6	1409.7	339.4	352.8	410.2	463.7	429.0	370.1	352.8	322.1
82.5°	855.2	994.1	555.9	243.2	255.2	295.3	354.1	322.1	265.9	224.5	221.8
85°	299.3	327.4	245.9	152.3	149.6	184.4	240.6	215.1	180.4	144.3	152.3
87.5°	94.9	124.2	92.1	61.5	64.2	82.8	110.9	101.6	84.2	54.7	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)