

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: P965744

Luminaire Tested: **NAV-SB4A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-827-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

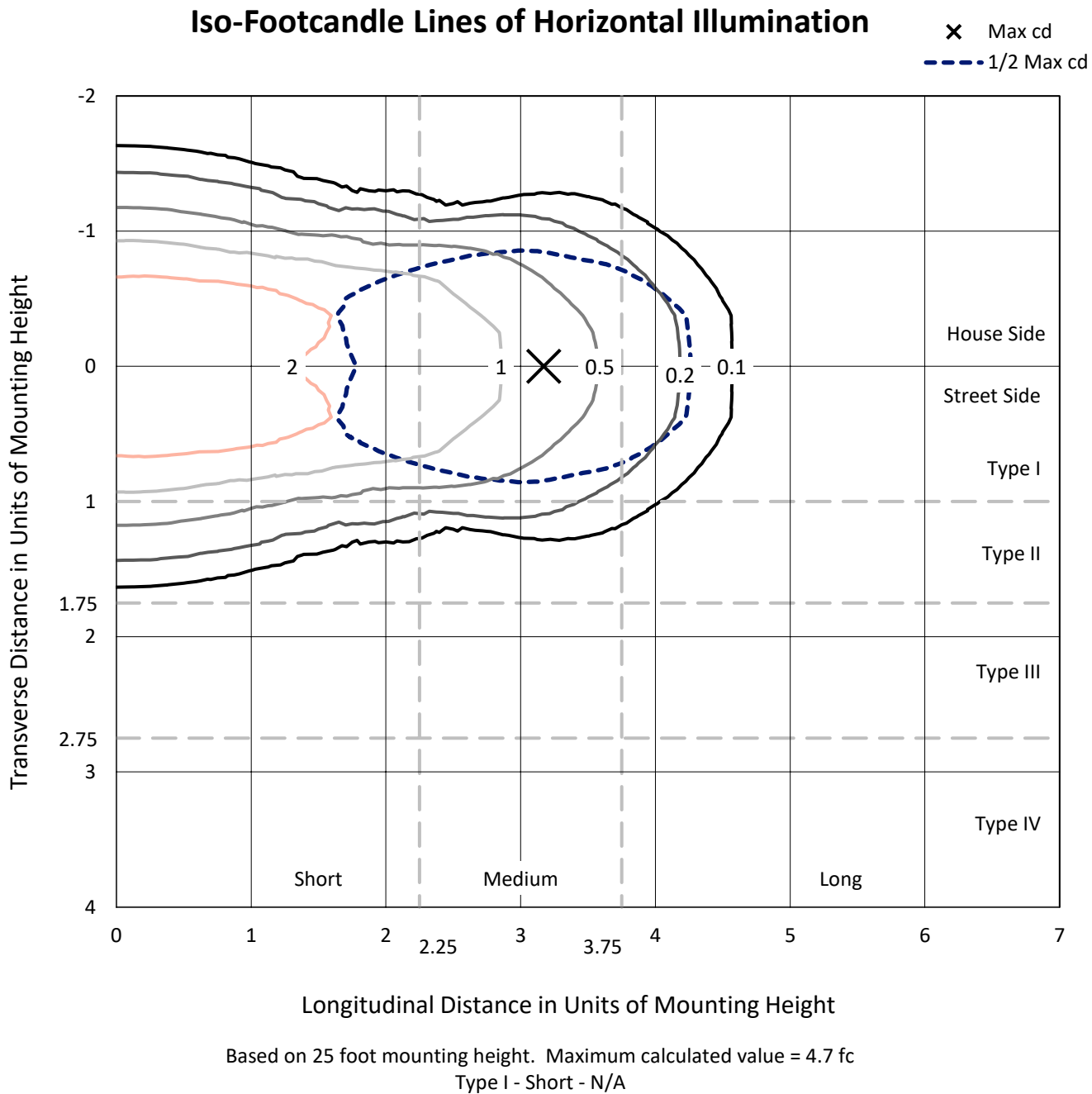
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15851.6 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - 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

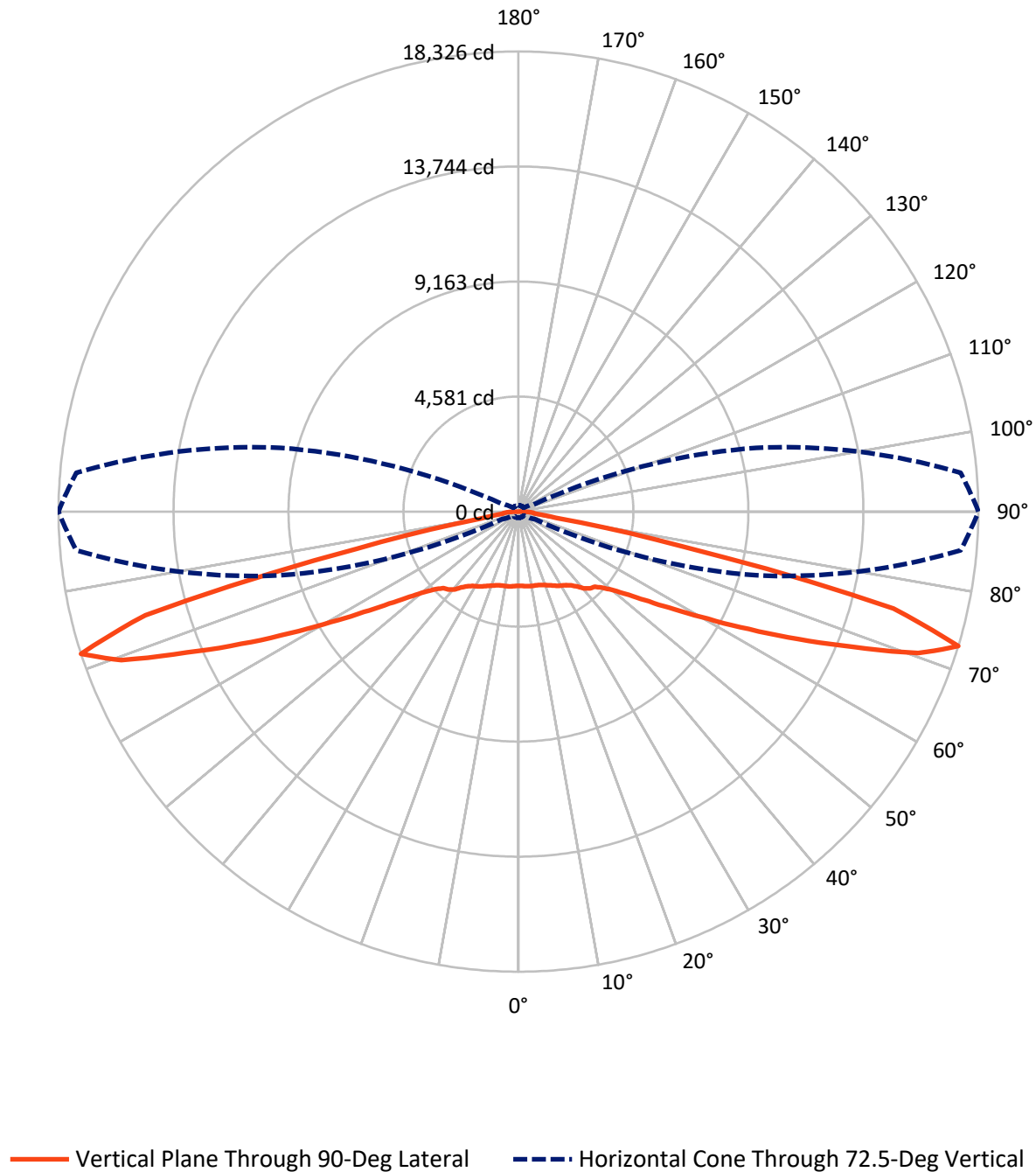


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Luminous Intensity Polar Plot



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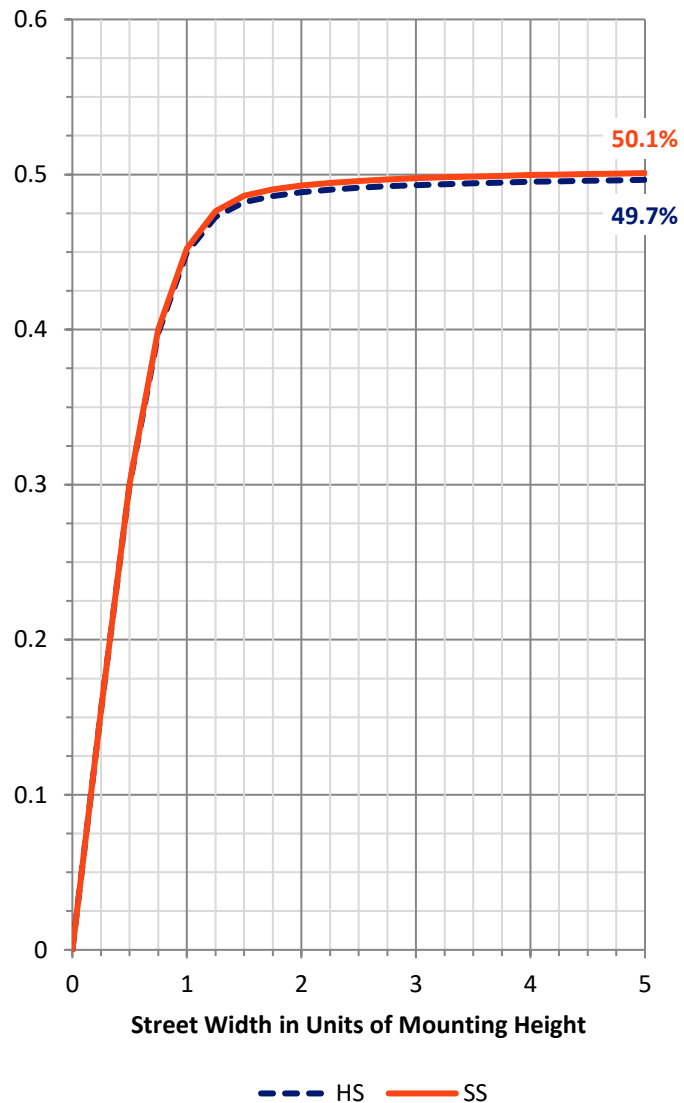
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7925.8	0.0	7925.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7925.8	0.0	7925.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	15851.6	0.0	15851.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.2	1.8
10°-20°	878.2	5.5
20°-30°	1464.3	9.2
30°-40°	2013.8	12.7
40°-50°	2459.4	15.5
50°-60°	2844.6	17.9
60°-70°	3391.7	21.4
70°-80°	2367.2	14.9
80°-90°	145.4	0.9
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°	15851.6	100.0
0°-180°	15851.6	100.0

Coefficient of Utilization



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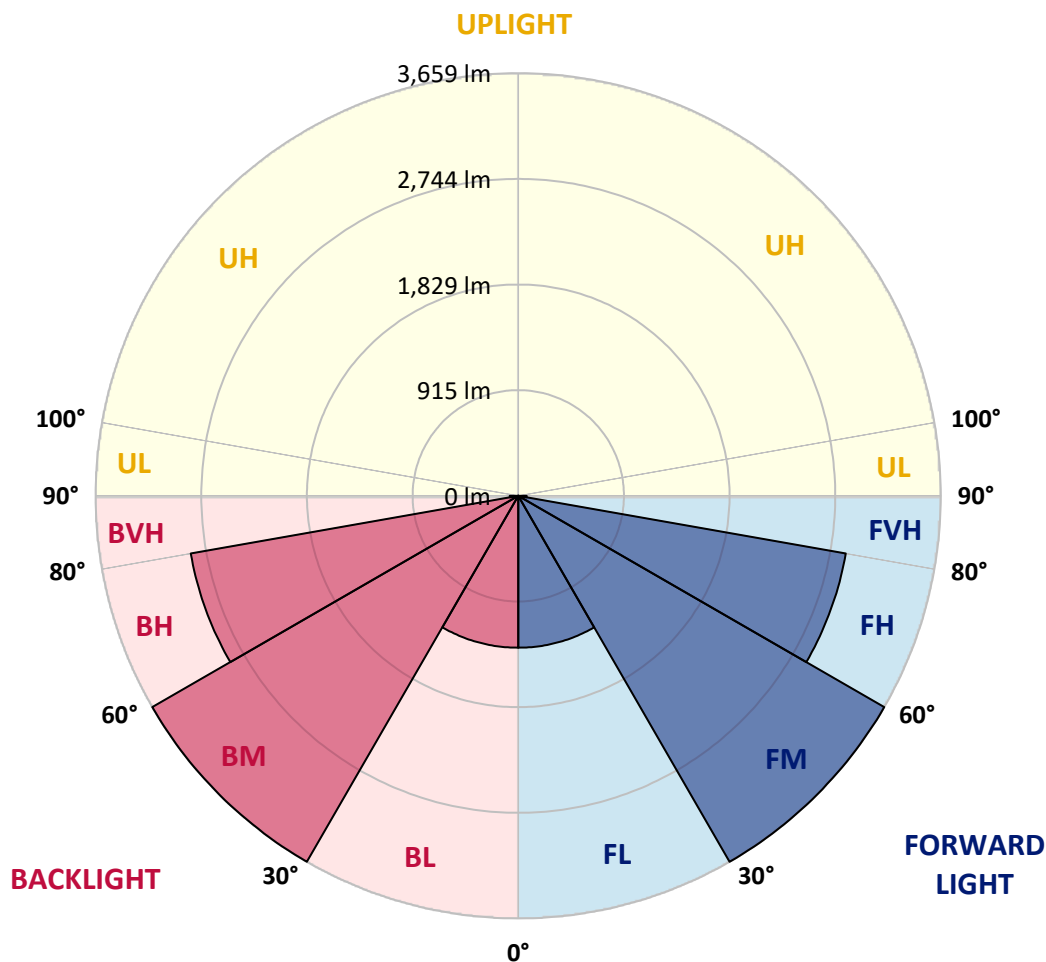
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.8	8.3			
FM	(30°-60°)	3658.9	23.1			
FH	(60°-80°)	2879.4	18.2			G2/5000
FVH	(80°-90°)	72.7	0.5			G1/100
BL	(0°-30°)	1314.8	8.3	B3/2500		
BM	(30°-60°)	3658.9	23.1	B3/5000		
BH	(60°-80°)	2879.4	18.2	B4/5000		G4/5000
BVH	(80°-90°)	72.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0	2962.0
2.5°	2964.6	2968.0	2968.0	2965.4	2971.3	2966.2	2966.2	2963.7	2966.2	2963.7	2963.7
5°	2979.8	2984.0	2985.6	2984.8	2992.4	2988.2	2988.2	2984.8	2985.6	2983.1	2983.1
7.5°	3008.4	3014.3	3017.6	3021.9	3032.8	3027.7	3024.4	3014.3	3010.0	3003.4	3003.4
10°	3017.6	3024.4	3035.3	3057.3	3082.5	3083.4	3073.3	3047.9	3028.6	3013.4	3010.9
12.5°	2989.0	2998.2	3021.0	3065.7	3122.1	3144.9	3128.8	3086.7	3048.9	3021.9	3017.6
15°	2952.8	2962.9	2997.4	3064.9	3148.2	3201.3	3199.6	3144.0	3083.4	3041.3	3034.5
17.5°	2896.3	2906.5	2956.1	3050.5	3168.5	3256.0	3279.7	3222.4	3137.3	3080.8	3071.5
20°	2794.4	2803.7	2872.8	3005.0	3175.1	3314.2	3375.7	3325.1	3219.0	3142.3	3128.0
22.5°	2662.1	2676.5	2757.4	2926.7	3159.2	3374.8	3485.2	3450.7	3314.2	3208.0	3188.7
25°	2520.6	2535.7	2630.1	2830.6	3117.8	3418.7	3615.0	3593.0	3422.1	3289.7	3262.8
27.5°	2398.4	2414.5	2517.2	2735.4	3053.9	3435.5	3743.0	3754.0	3552.6	3379.9	3351.2
30°	2302.5	2317.5	2427.1	2658.7	2971.3	3418.7	3855.0	3930.9	3685.7	3458.2	3416.9
32.5°	2197.1	2216.5	2331.9	2565.3	2873.6	3378.2	3952.8	4122.1	3839.9	3542.5	3490.2
35°	2064.0	2081.7	2203.0	2437.2	2745.6	3313.3	4034.5	4334.4	4060.6	3670.5	3612.4
37.5°	1902.2	1919.1	2039.5	2277.1	2618.4	3222.4	4096.8	4573.7	4323.4	3855.0	3777.5
40°	1739.6	1755.6	1868.6	2098.6	2465.8	3106.1	4118.8	4807.9	4625.0	4108.6	4026.1
42.5°	1590.5	1604.8	1708.5	1922.5	2294.9	2957.8	4090.1	5011.7	4895.5	4285.5	4179.3
45°	1453.2	1465.9	1557.7	1757.4	2117.0	2777.5	4004.2	5230.8	5217.2	4411.9	4268.7
47.5°	1296.5	1309.1	1404.4	1597.3	1939.3	2566.1	3858.4	5446.4	5664.7	4698.3	4533.2
50°	1105.3	1116.2	1214.0	1412.8	1754.8	2341.2	3656.2	5615.8	6229.0	5132.2	4924.9
52.5°	878.6	890.4	985.6	1184.5	1535.8	2099.4	3390.0	5726.2	6881.1	5765.7	5510.4
55°	653.7	662.2	744.8	923.3	1264.5	1823.9	3056.4	5757.3	7620.8	6631.7	6312.5
57.5°	474.3	479.4	532.4	665.5	958.7	1479.4	2651.2	5676.4	8501.1	7742.1	7340.2
60°	384.2	385.8	401.8	460.8	666.4	1090.1	2161.7	5398.4	9456.4	9173.4	8667.1
62.5°	348.8	348.8	353.0	369.0	450.7	719.4	1569.5	4822.2	10480.9	10982.2	10304.0
65°	324.3	324.3	326.1	333.6	355.5	458.3	990.8	3883.7	11344.4	13100.9	12243.3
67.5°	302.5	303.3	302.5	304.9	317.6	338.7	574.5	2682.3	11809.4	15296.3	14370.5
70°	279.7	281.4	277.2	277.2	287.3	288.1	359.8	1470.9	11423.6	17136.3	16892.7
72.5°	252.8	255.2	248.6	246.8	254.4	251.0	270.4	706.0	9807.8	17685.5	18325.8
75°	229.2	232.5	217.4	213.1	213.1	210.6	219.9	362.2	6365.6	14426.9	15431.1
77.5°	208.1	214.8	190.3	176.9	173.5	165.9	179.5	221.6	2784.3	6773.3	6632.6
80°	171.9	181.1	156.7	140.7	134.8	126.4	141.6	155.0	828.1	1572.9	1506.3
82.5°	128.0	132.2	111.2	100.2	95.2	89.3	106.2	107.8	269.6	556.9	629.3
85°	81.7	83.4	68.3	58.9	56.5	53.9	67.4	58.9	102.8	409.4	594.8
87.5°	28.6	32.9	26.1	23.6	25.3	21.0	31.2	17.7	28.6	288.9	358.0
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)