

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: P969822

Luminaire Tested: **NAV-SB6A-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28202.9 lumens
Efficiency: N/A
Efficacy: 165.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 170.9
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



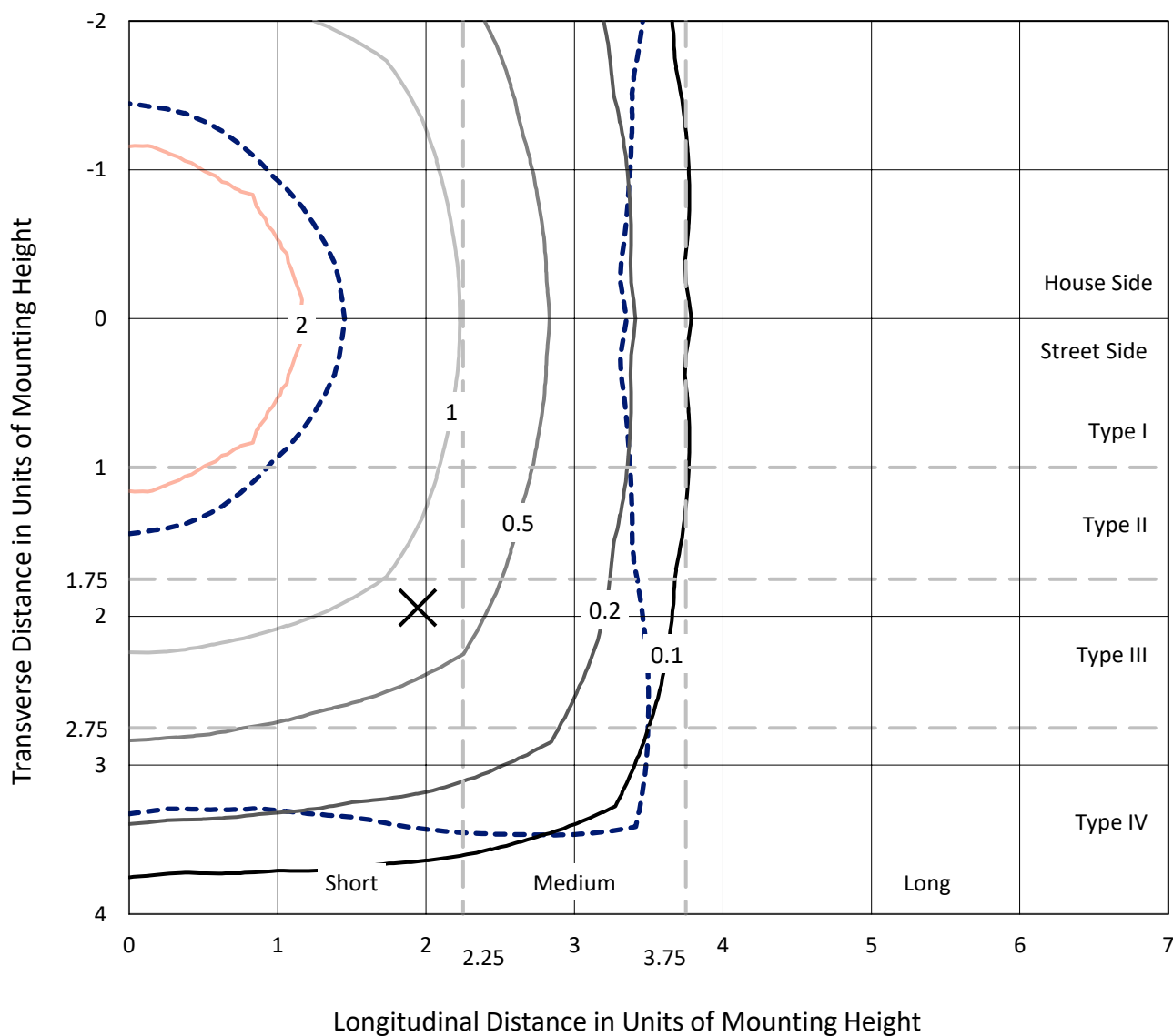
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

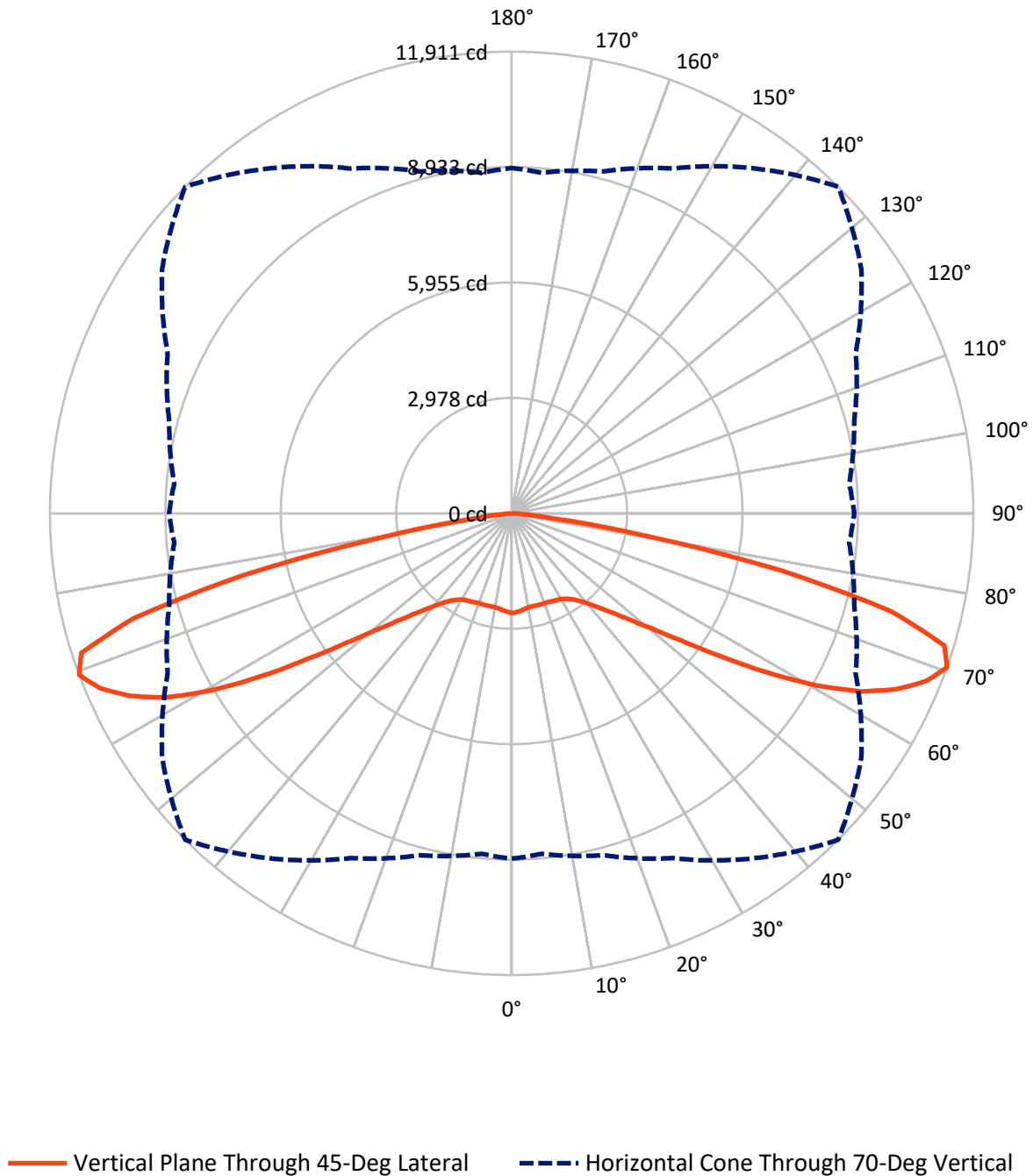


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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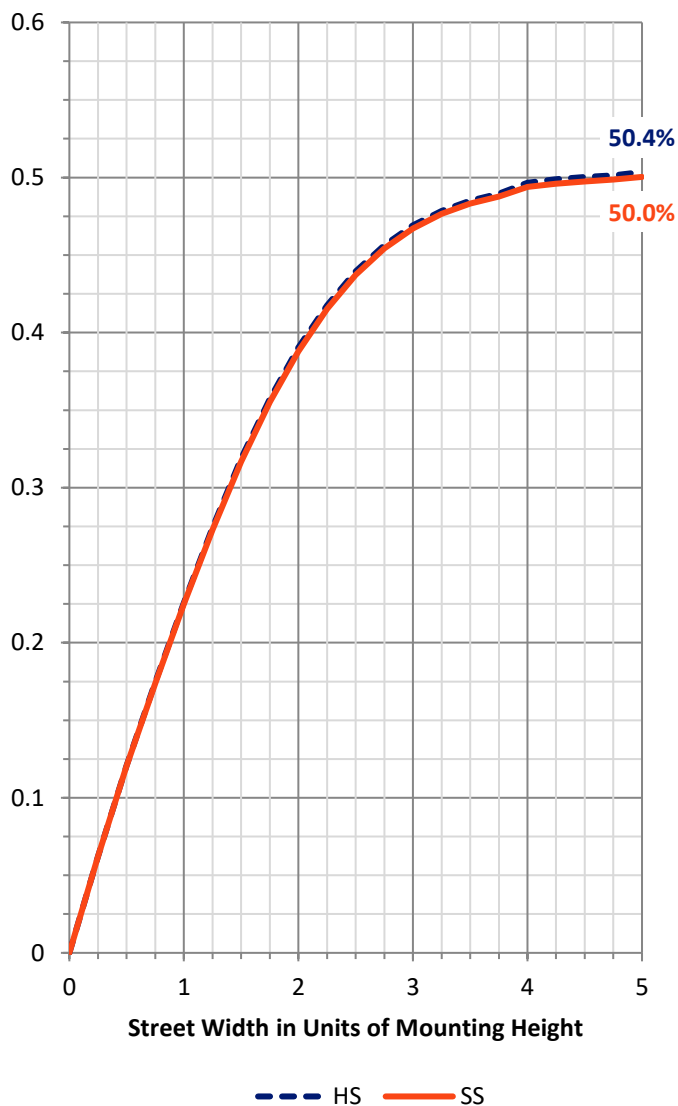
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14101.4	0.0	14101.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14101.4	0.0	14101.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	28202.9	0.0	28202.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.3	0.8
10°-20°	702.7	2.5
20°-30°	1169.4	4.1
30°-40°	1768.5	6.3
40°-50°	2938.8	10.4
50°-60°	5545.4	19.7
60°-70°	9363.6	33.2
70°-80°	6152.9	21.8
80°-90°	322.3	1.1
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°	28202.9	100.0
0°-180°	28202.9	100.0

Coefficient of Utilization



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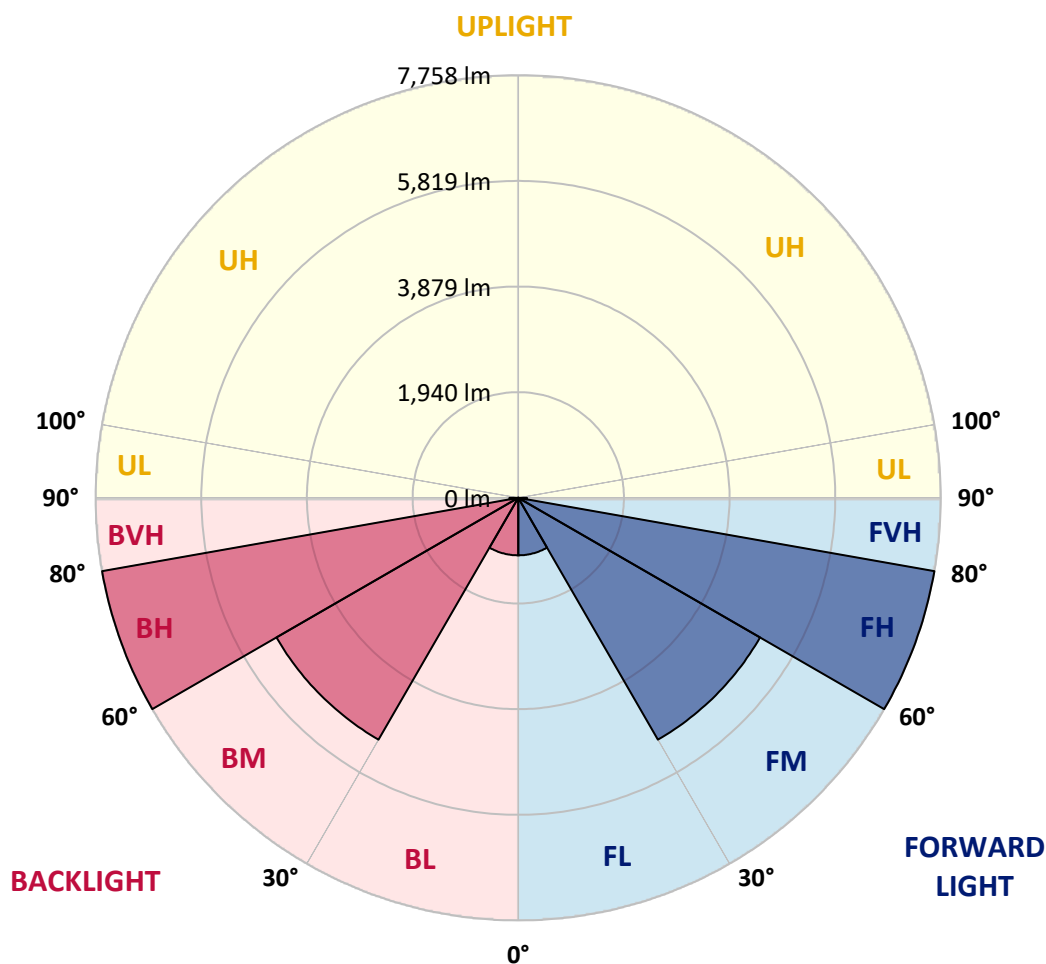
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.7	3.7			
FM	(30°-60°)	5126.3	18.2			
FH	(60°-80°)	7758.2	27.5			G4/12000
FVH	(80°-90°)	161.2	0.6			G2/225
BL	(0°-30°)	1055.7	3.7	B3/2500		
BM	(30°-60°)	5126.3	18.2	B4/8500		
BH	(60°-80°)	7758.2	27.5	B5		G4/12000
BVH	(80°-90°)	161.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6
2.5°	2556.6	2563.8	2561.0	2555.1	2555.1	2550.7	2555.1	2558.0	2562.4	2565.4	2563.8
5°	2522.8	2528.7	2527.2	2522.8	2524.3	2519.9	2522.8	2527.2	2530.1	2531.6	2531.6
7.5°	2493.5	2499.4	2496.5	2489.1	2489.1	2484.7	2486.1	2490.5	2495.0	2496.5	2496.5
10°	2486.1	2492.1	2483.3	2471.5	2467.2	2461.2	2462.8	2467.2	2475.9	2480.3	2480.3
12.5°	2489.1	2493.5	2484.7	2467.2	2462.8	2456.8	2456.8	2461.2	2473.0	2478.9	2480.3
15°	2497.9	2502.3	2489.1	2470.0	2465.6	2461.2	2459.8	2465.6	2478.9	2489.1	2490.5
17.5°	2514.0	2518.4	2497.9	2471.5	2465.6	2467.2	2465.6	2470.0	2490.5	2509.6	2509.6
20°	2528.7	2531.6	2503.8	2471.5	2465.6	2467.2	2465.6	2474.5	2500.8	2527.2	2528.7
22.5°	2533.1	2536.1	2509.6	2481.8	2477.4	2478.9	2477.4	2486.1	2511.1	2537.5	2537.5
25°	2534.5	2538.9	2518.4	2496.5	2503.8	2506.7	2503.8	2505.2	2524.3	2547.7	2546.3
27.5°	2556.6	2562.4	2543.3	2524.3	2528.7	2527.2	2531.6	2536.1	2550.7	2574.2	2568.2
30°	2602.0	2606.4	2590.3	2571.2	2568.2	2558.0	2571.2	2585.9	2602.0	2622.5	2618.2
32.5°	2676.8	2685.5	2665.0	2644.5	2631.3	2625.4	2635.7	2660.6	2682.6	2704.6	2695.9
35°	2801.3	2807.2	2788.2	2750.1	2726.6	2726.6	2735.4	2767.6	2802.9	2830.6	2820.4
37.5°	2977.2	2984.6	2950.9	2905.5	2870.2	2870.2	2882.0	2915.7	2968.5	3008.1	2993.4
40°	3191.2	3201.6	3159.0	3112.1	3078.4	3072.5	3087.2	3125.3	3175.1	3225.0	3208.9
42.5°	3449.3	3461.0	3405.4	3364.3	3337.9	3337.9	3345.2	3380.3	3425.9	3487.4	3483.0
45°	3779.1	3799.7	3723.4	3682.3	3657.4	3663.4	3667.7	3698.5	3739.5	3809.9	3807.0
47.5°	4172.0	4192.5	4111.9	4069.4	4064.9	4092.8	4075.2	4097.2	4119.2	4199.8	4176.4
50°	4617.6	4652.8	4597.1	4594.2	4603.0	4654.2	4613.2	4624.9	4600.0	4651.3	4620.5
52.5°	5162.9	5214.3	5204.0	5221.6	5319.7	5425.3	5331.5	5290.4	5196.6	5212.7	5158.5
55°	5824.0	5901.7	5916.4	6022.0	6244.8	6460.3	6260.9	6095.3	5895.9	5859.2	5802.1
57.5°	6576.1	6637.6	6708.0	6923.5	7339.8	7722.5	7339.8	6973.3	6659.6	6584.9	6532.1
60°	7385.2	7461.5	7528.9	7847.0	8465.6	9003.6	8453.9	7871.9	7457.1	7355.9	7268.0
62.5°	8254.5	8352.7	8399.7	8753.0	9474.2	10116.2	9484.4	8779.3	8319.0	8210.6	8122.6
65°	9088.7	9169.2	9222.0	9598.8	10287.7	10931.3	10334.7	9639.8	9166.4	9024.1	8953.8
67.5°	9477.2	9521.1	9650.1	10076.7	10803.7	11538.1	10926.9	10122.1	9592.9	9343.7	9346.7
70°	8908.4	8818.9	9129.7	9812.8	10865.3	11910.5	11006.0	9792.2	9144.3	8739.8	8836.5
72.5°	6883.9	6729.9	7269.4	8437.8	10161.6	11673.0	10232.1	8503.7	7605.1	6784.3	6987.9
75°	3745.3	3571.0	4315.7	5793.3	8103.5	10117.7	8289.7	5958.9	4805.2	3717.6	3959.4
77.5°	1056.9	991.0	1591.9	2802.9	4874.2	7103.8	5061.8	2864.4	1888.0	1119.9	1244.6
80°	324.0	313.8	425.1	844.4	2069.9	3402.4	1989.2	854.6	540.9	341.5	360.6
82.5°	192.1	175.9	211.0	307.8	527.8	1068.7	513.1	321.0	258.0	173.0	187.7
85°	110.0	102.6	124.6	149.5	177.3	227.2	148.0	152.4	137.8	92.4	96.8
87.5°	45.4	41.0	48.4	46.9	41.0	52.8	39.6	46.9	55.7	36.7	33.7
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)