

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: P971530

Luminaire Tested: **NAV-SB6D-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56637.4 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 440.1
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



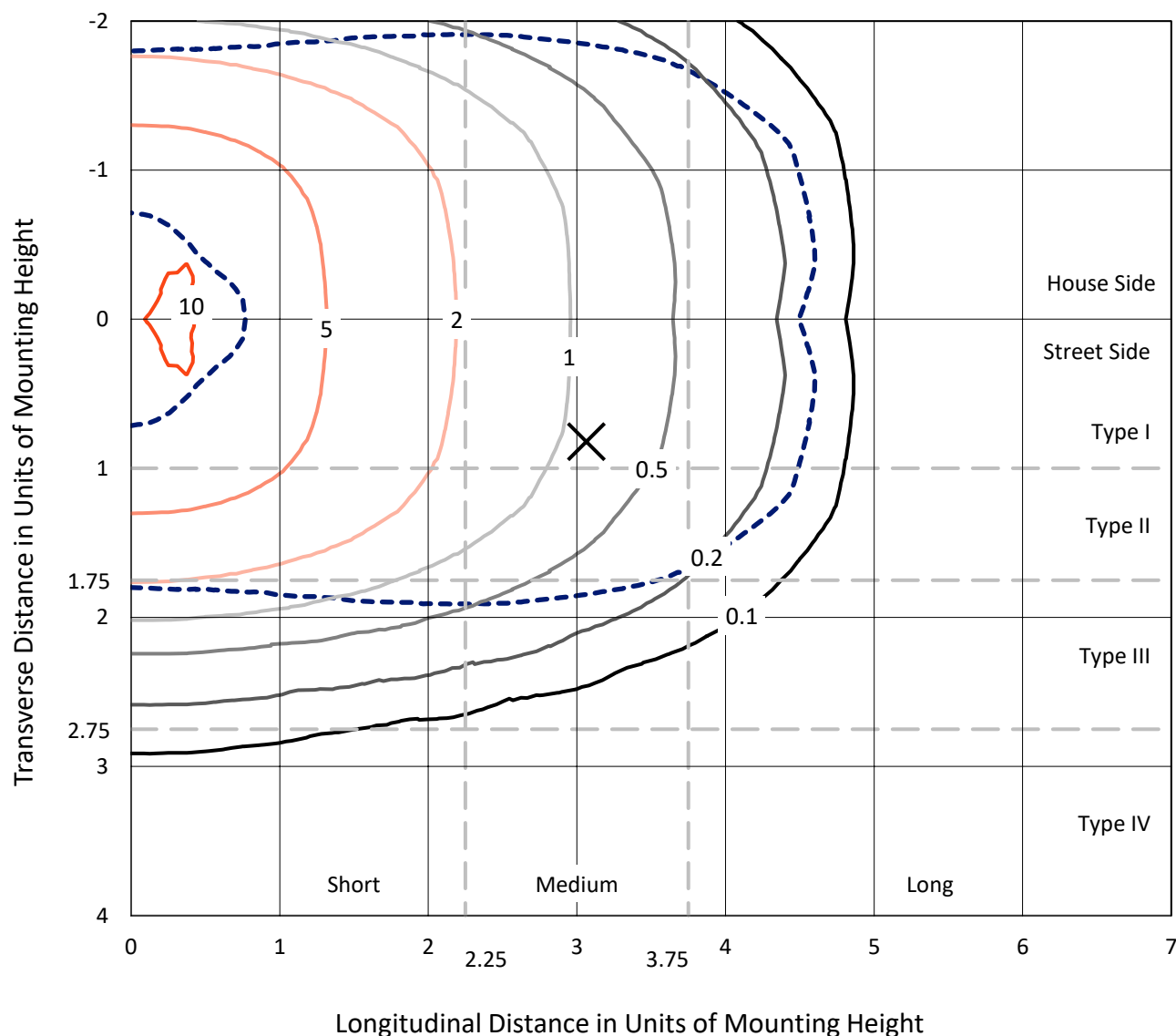
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

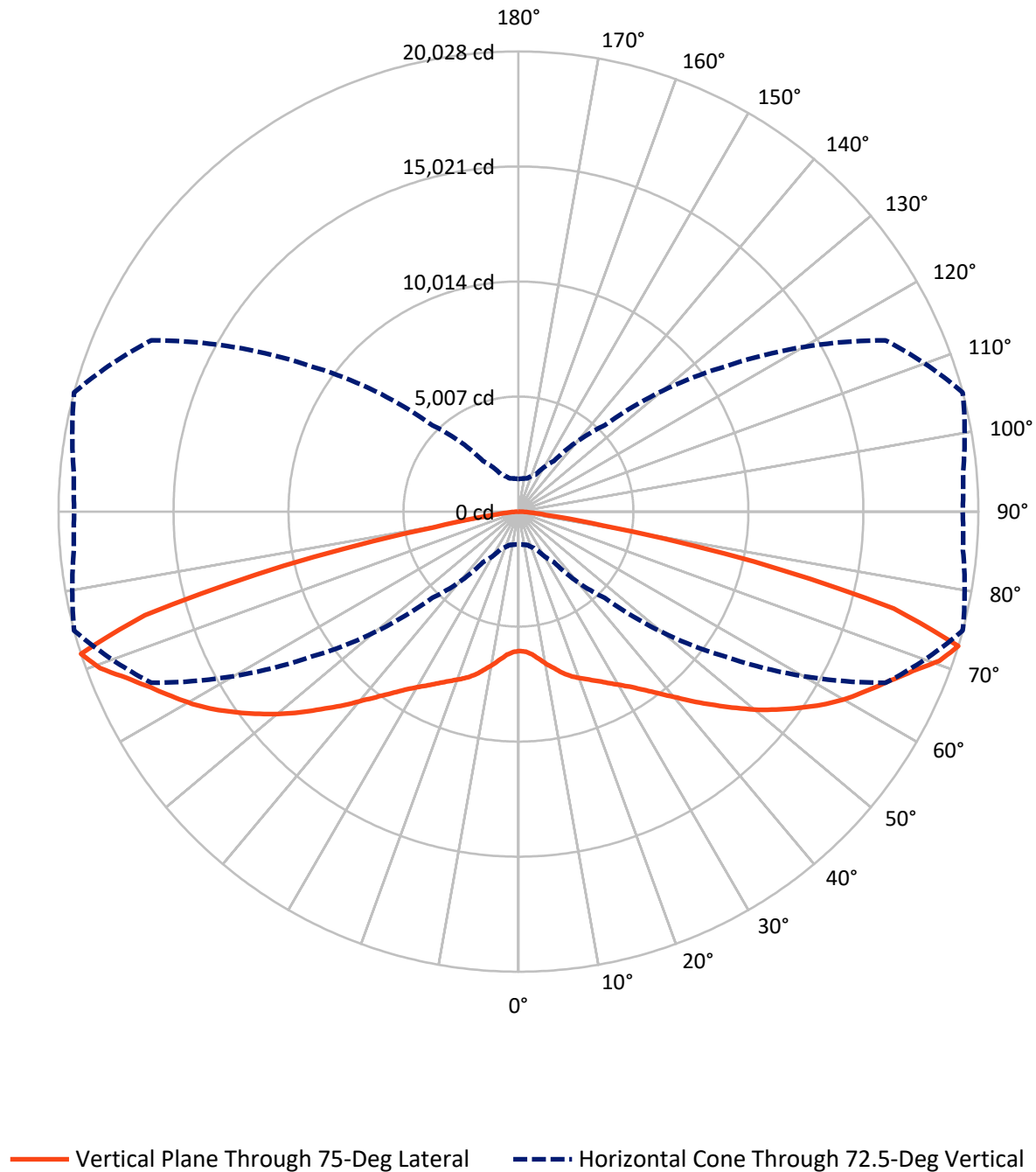
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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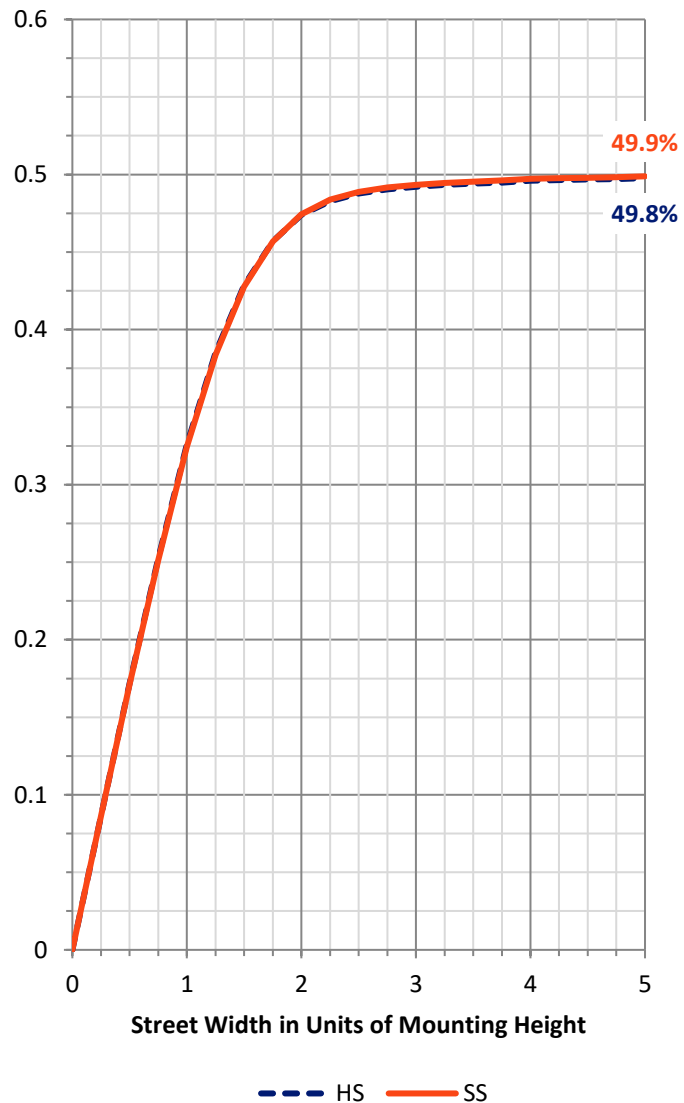
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28318.7	0.0	28318.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28318.7	0.0	28318.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	56637.4	0.0	56637.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.3	1.0
10°-20°	1960.1	3.5
20°-30°	3787.5	6.7
30°-40°	6395.5	11.3
40°-50°	10142.5	17.9
50°-60°	13579.7	24.0
60°-70°	12923.5	22.8
70°-80°	6743.7	11.9
80°-90°	510.5	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°	56637.4	100.0
0°-180°	56637.4	100.0

Coefficient of Utilization



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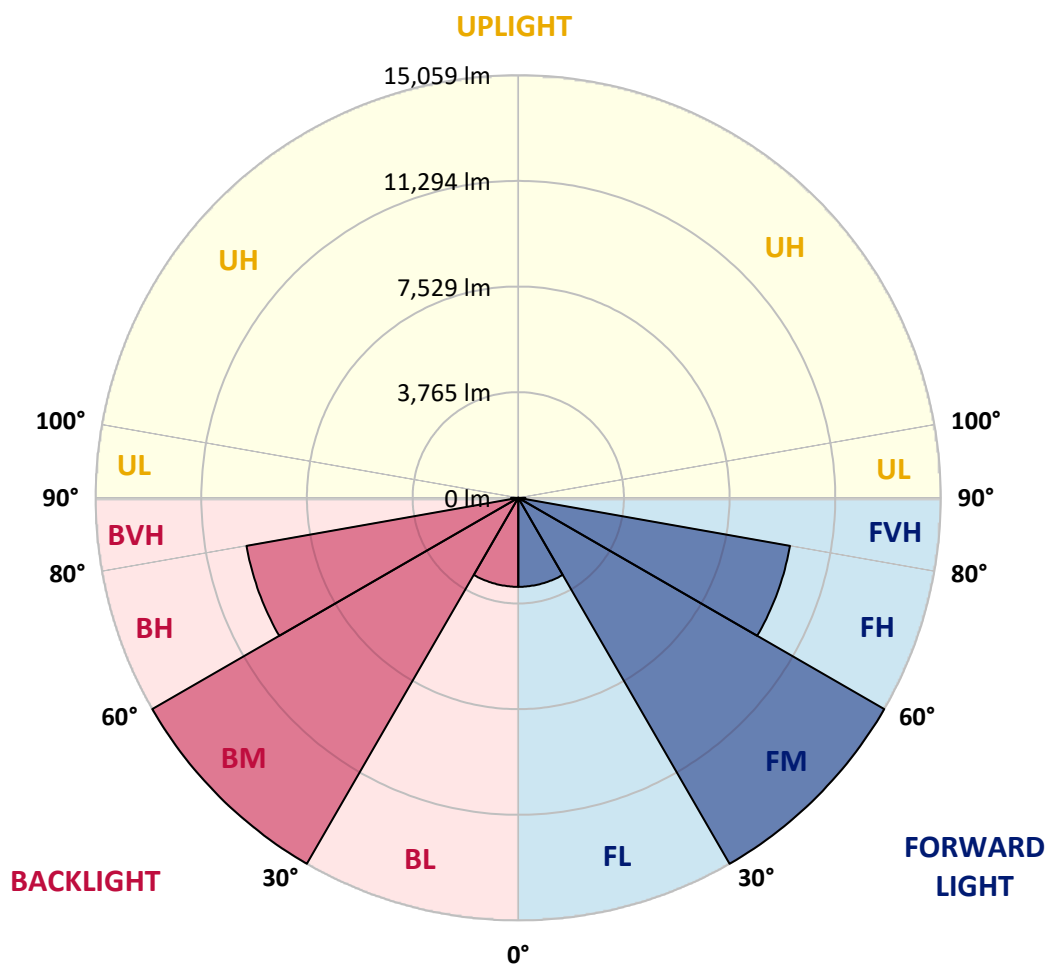
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3171.0	5.6			
FM	(30°-60°)	15058.9	26.6			
FH	(60°-80°)	9833.6	17.4			G4/12000
FVH	(80°-90°)	255.2	0.5			G3/500
BL	(0°-30°)	3171.0	5.6	B4/5000		
BM	(30°-60°)	15058.9	26.6	B5		
BH	(60°-80°)	9833.6	17.4	B5		G5
BVH	(80°-90°)	255.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6066.9	6066.9	6066.9	6066.9	6066.9	6066.9	6066.9	6066.9	6066.9	6066.9	6066.9
2.5°	6066.9	6061.1	6066.9	6072.6	6069.7	6069.7	6084.2	6092.9	6110.2	6107.4	6104.5
5°	6026.4	6023.5	6046.7	6072.6	6092.9	6127.7	6171.0	6202.8	6243.3	6252.0	6252.0
7.5°	6006.2	5997.5	6038.0	6084.2	6147.8	6234.6	6318.5	6405.2	6474.6	6497.8	6503.5
10°	6020.6	6023.5	6078.5	6165.2	6266.4	6387.9	6506.4	6653.9	6752.2	6775.4	6798.5
12.5°	6087.2	6081.3	6173.9	6312.7	6451.5	6604.8	6743.6	6905.5	7012.4	7067.4	7090.5
15°	6208.5	6197.0	6327.1	6532.4	6734.9	6914.1	7026.9	7180.2	7304.6	7374.0	7400.0
17.5°	6353.2	6358.9	6529.6	6795.6	7061.6	7264.1	7371.1	7449.1	7544.5	7605.3	7634.2
20°	6607.7	6619.2	6810.1	7125.3	7428.9	7660.2	7746.9	7718.0	7744.1	7790.4	7825.1
22.5°	6948.9	6954.6	7168.6	7509.9	7827.9	8082.4	8140.2	8021.6	7949.4	7981.3	8004.3
25°	7345.0	7382.7	7596.6	7946.5	8273.3	8516.2	8542.2	8363.0	8183.6	8192.3	8206.8
27.5°	7827.9	7862.7	8079.6	8426.5	8759.1	8970.2	8967.3	8727.3	8464.1	8397.6	8417.9
30°	8351.4	8388.9	8611.6	8970.2	9279.6	9464.6	9424.2	9137.9	8762.0	8637.7	8652.1
32.5°	8973.1	8996.2	9221.8	9580.4	9866.6	10014.1	9930.2	9577.5	9109.0	8967.3	9002.0
35°	9724.9	9759.6	9927.3	10265.7	10517.3	10638.7	10497.0	10080.7	9554.3	9395.3	9418.4
37.5°	10583.7	10560.7	10751.5	11052.3	11260.4	11335.7	11141.9	10647.4	10063.2	9875.3	9910.0
40°	11480.2	11468.6	11676.9	11966.1	12078.8	12125.0	11838.7	11298.1	10650.3	10447.8	10514.3
42.5°	12292.8	12284.1	12564.7	12885.6	13021.5	12969.4	12608.0	11989.2	11329.8	11098.5	11156.3
45°	12943.5	12931.9	13276.0	13727.1	13993.2	13906.4	13420.6	12752.6	12018.1	11778.1	11833.0
47.5°	13443.7	13449.5	13819.7	14377.8	14843.3	14875.1	14250.5	13530.5	12775.7	12503.9	12584.8
50°	13805.2	13822.5	14218.7	14837.5	15473.7	15754.2	15097.8	14328.6	13559.4	13252.8	13345.4
52.5°	13894.8	13926.7	14403.8	15129.6	15878.6	16413.5	15959.6	15094.9	14302.5	14010.5	14085.7
55°	13417.7	13481.3	14085.7	15106.4	16127.2	16847.3	16717.1	15872.7	15051.5	14750.8	14834.6
57.5°	12321.7	12411.4	13116.9	14450.0	16072.3	17145.2	17304.2	16618.8	15800.5	15511.3	15577.8
60°	10786.2	10893.2	11569.9	13024.4	15297.3	17255.1	17717.7	17344.6	16488.8	16208.2	16268.9
62.5°	8469.9	8608.8	9418.4	11124.5	13660.6	16743.2	18070.5	18001.2	17107.6	16757.6	16798.1
65°	5433.6	5581.0	6434.1	8449.7	11477.3	15175.8	18180.4	18640.1	17761.1	17272.4	17333.2
67.5°	3276.3	3342.8	3765.0	5121.3	8388.9	12813.3	17249.2	19348.6	18524.5	17917.2	17963.5
70°	2096.5	2134.2	2385.7	3007.5	4742.5	9349.0	14941.6	19481.7	19449.9	18579.5	18573.7
72.5°	1422.7	1434.3	1500.8	1781.3	2683.6	5312.2	11020.4	17636.8	20028.2	19432.6	19340.0
75°	1041.0	1104.6	1211.7	1260.8	1524.0	2654.6	6315.5	12391.1	16879.1	17139.3	16509.0
77.5°	775.0	777.9	925.4	983.2	1087.3	1414.1	2672.0	6917.0	10479.7	11003.1	9814.6
80°	656.4	621.8	618.8	792.3	818.4	882.0	1194.3	2388.6	3753.4	2275.8	1720.6
82.5°	546.5	508.9	459.8	618.8	558.1	540.8	517.6	971.6	1194.3	587.0	500.3
85°	381.7	364.4	347.0	404.9	318.1	271.8	248.7	454.0	503.2	248.7	219.8
87.5°	164.8	170.7	173.5	179.3	133.0	95.4	95.4	127.2	127.2	98.3	72.3
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)