

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: P970472

Luminaire Tested: **NAV-SB6B-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-827-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

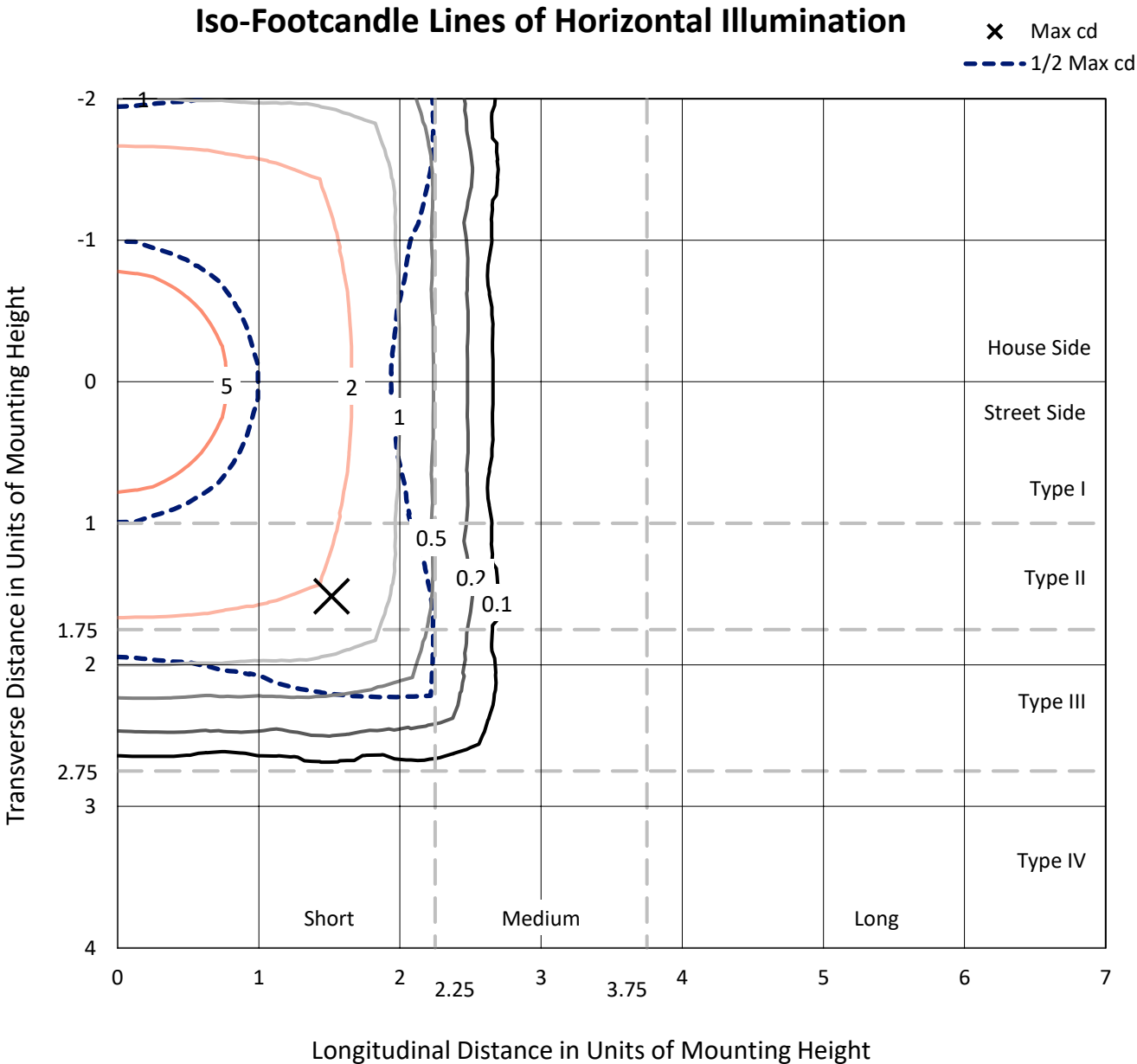
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31892.9 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 220.4
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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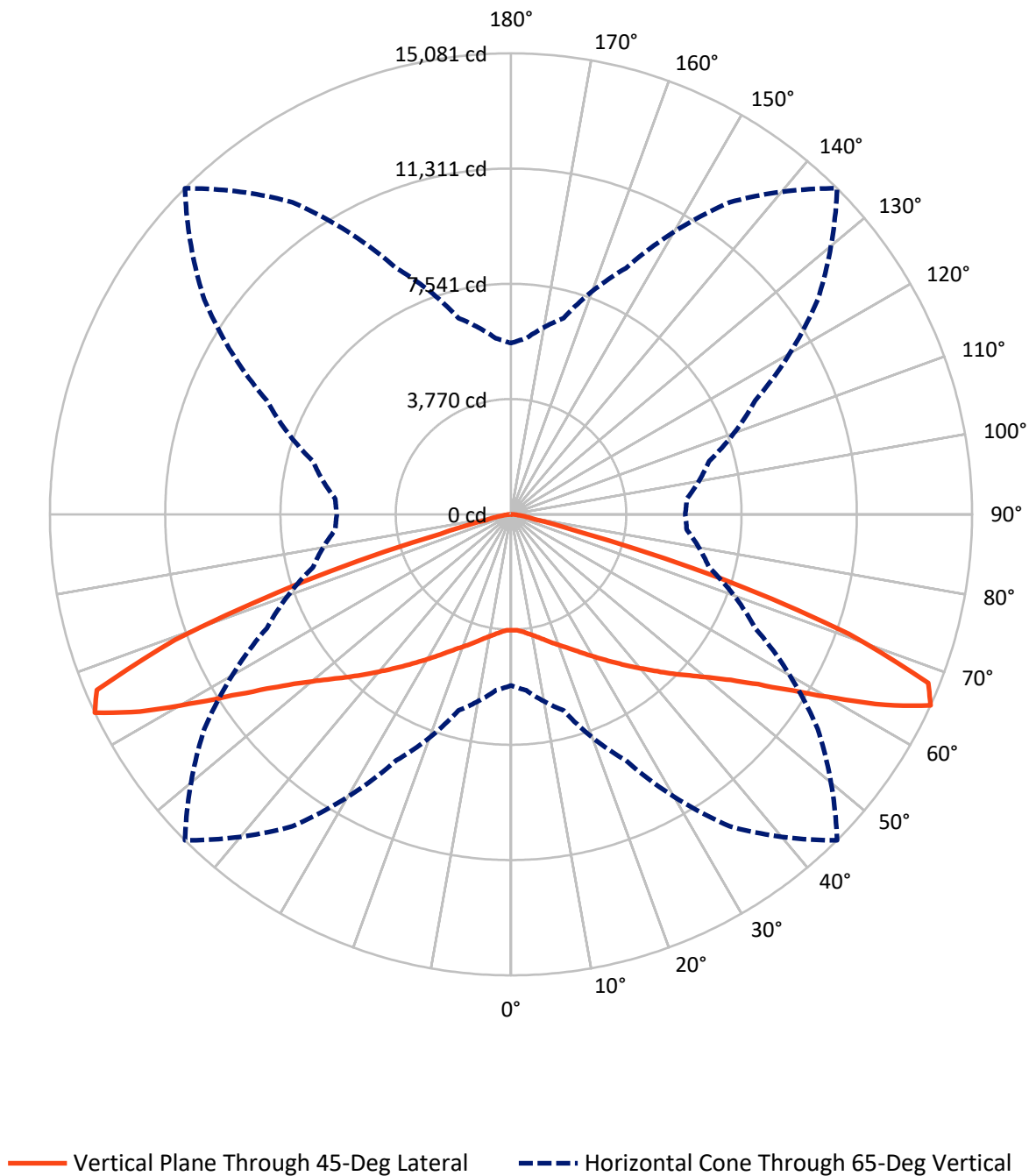


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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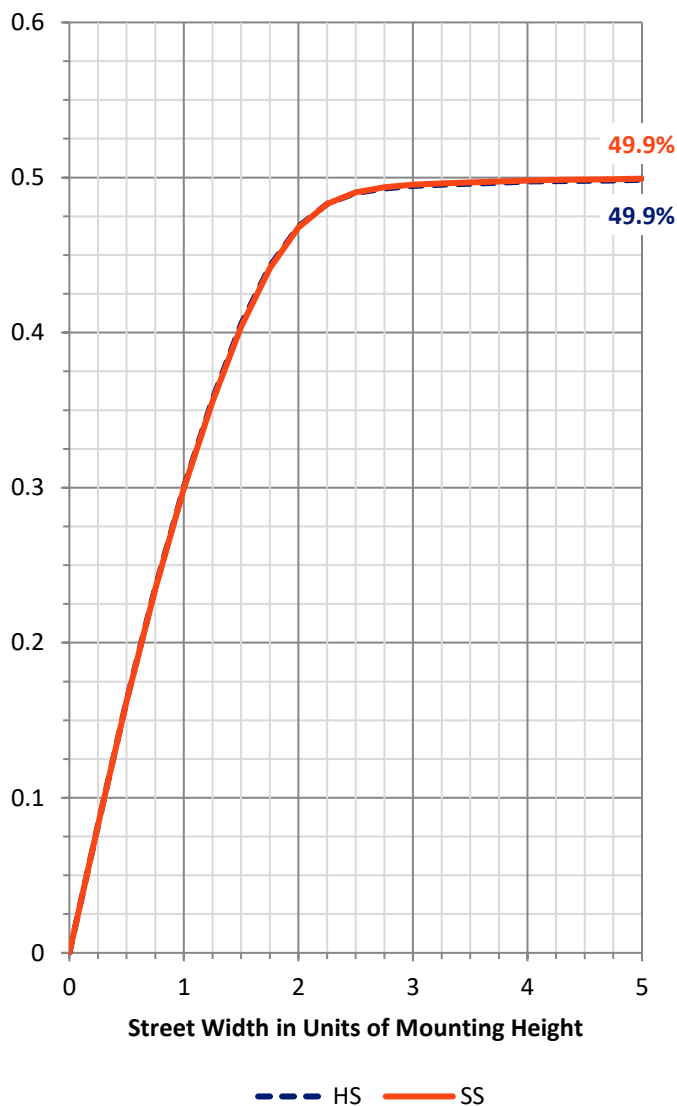
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15946.4	0.0	15946.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15946.4	0.0	15946.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	31892.9	0.0	31892.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.6	1.2
10°-20°	1222.3	3.8
20°-30°	2307.8	7.2
30°-40°	3779.0	11.8
40°-50°	5859.4	18.4
50°-60°	8655.6	27.1
60°-70°	8239.3	25.8
70°-80°	1329.5	4.2
80°-90°	125.3	0.4
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°	31892.9	100.0
0°-180°	31892.9	100.0

Coefficient of Utilization



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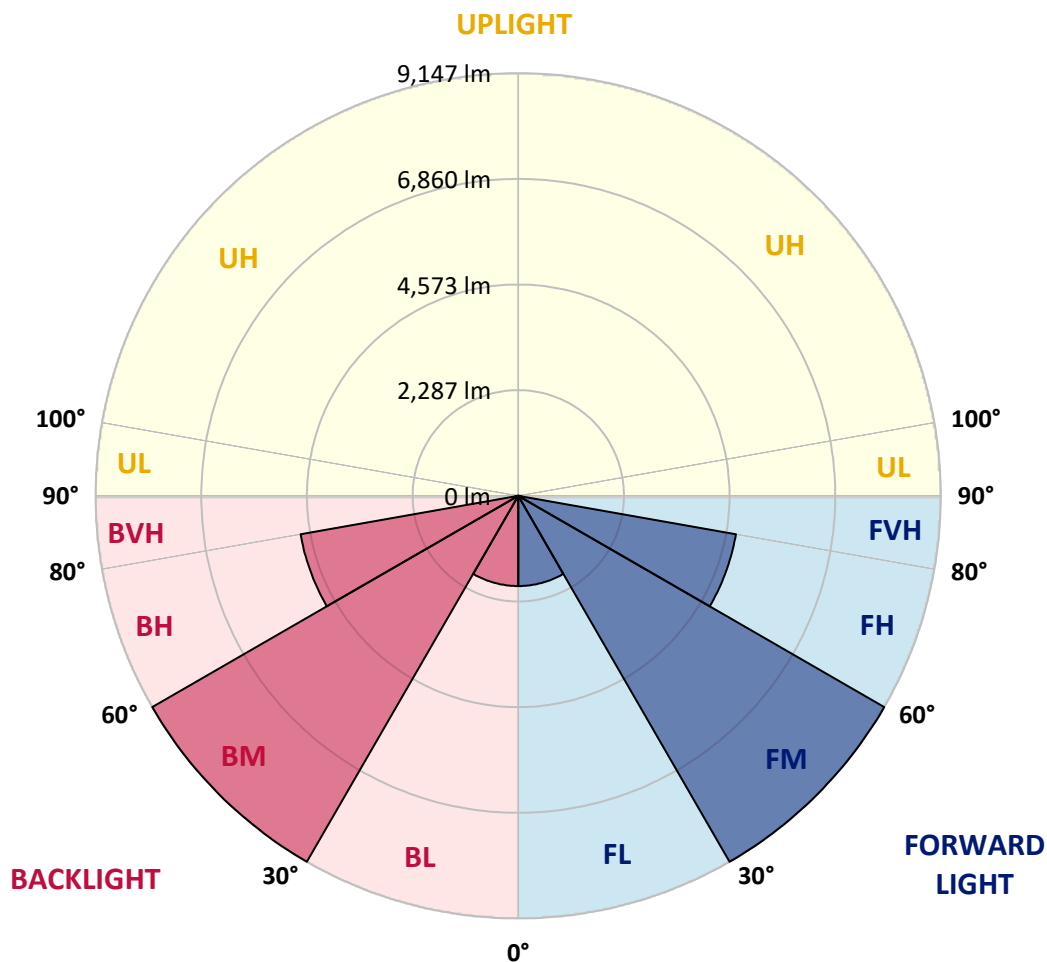
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1952.4	6.1			
FM	(30°-60°)	9147.0	28.7			
FH	(60°-80°)	4784.4	15.0			G2/5000
FVH	(80°-90°)	62.7	0.2			G1/100
BL	(0°-30°)	1952.4	6.1	B3/2500		
BM	(30°-60°)	9147.0	28.7	B5		
BH	(60°-80°)	4784.4	15.0	B4/5000		G2/5000
BVH	(80°-90°)	62.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6
2.5°	3821.2	3808.4	3818.0	3809.9	3803.6	3797.2	3800.4	3811.6	3816.4	3818.0	3818.0
5°	3872.3	3861.2	3866.0	3866.0	3854.8	3851.5	3853.2	3861.2	3870.8	3870.8	3870.8
7.5°	3955.6	3944.4	3955.6	3949.2	3939.6	3936.4	3934.8	3941.2	3955.6	3955.6	3950.8
10°	4056.4	4043.6	4050.0	4046.8	4035.6	4030.8	4029.2	4038.8	4051.6	4050.0	4046.8
12.5°	4166.8	4152.4	4160.4	4150.8	4147.6	4142.8	4142.8	4141.2	4149.2	4142.8	4146.0
15°	4290.0	4280.4	4283.6	4277.2	4282.0	4278.9	4266.0	4259.6	4262.8	4253.2	4254.8
17.5°	4435.6	4413.2	4424.4	4421.2	4421.2	4427.6	4406.8	4398.8	4405.2	4395.6	4403.6
20°	4603.7	4581.2	4586.1	4579.6	4571.6	4578.1	4552.4	4558.9	4563.6	4557.3	4571.6
22.5°	4787.7	4758.9	4757.2	4760.5	4742.9	4744.4	4726.9	4742.9	4752.5	4734.9	4752.5
25°	4976.5	4946.0	4966.8	4958.8	4936.5	4941.3	4928.5	4944.5	4952.5	4930.0	4955.7
27.5°	5176.5	5155.8	5174.9	5179.7	5152.5	5171.7	5152.5	5166.9	5174.9	5141.3	5166.9
30°	5410.2	5389.3	5407.0	5419.7	5387.7	5418.2	5402.2	5411.7	5413.3	5373.4	5397.3
32.5°	5664.6	5632.6	5677.4	5683.7	5648.6	5685.4	5664.6	5677.4	5685.4	5630.9	5667.7
35°	5975.0	5935.0	5986.2	5978.2	5947.8	5978.2	5958.9	5978.2	5997.4	5931.8	5971.8
37.5°	6309.4	6267.8	6322.2	6307.8	6279.0	6299.9	6288.6	6301.4	6331.8	6261.4	6304.6
40°	6677.5	6626.2	6699.8	6674.3	6647.0	6643.8	6650.2	6658.3	6698.3	6619.9	6645.5
42.5°	7071.1	7016.6	7127.1	7087.1	7048.7	7023.1	7043.9	7059.9	7098.3	7010.3	7056.7
45°	7520.7	7458.3	7602.3	7554.4	7493.6	7440.7	7474.3	7498.3	7554.4	7448.8	7503.1
47.5°	8016.8	7946.4	8100.0	8085.6	7986.4	7871.2	7948.0	8016.8	8058.3	7930.4	7973.6
50°	8501.7	8447.2	8648.8	8666.5	8544.8	8383.3	8490.4	8594.4	8605.6	8437.6	8458.4
52.5°	8956.0	8901.7	9194.5	9304.9	9196.1	9004.1	9117.7	9223.3	9138.5	8920.9	8927.2
55°	9319.3	9274.5	9647.3	9932.1	9968.9	9810.6	9877.7	9874.5	9596.2	9261.7	9272.9
57.5°	9407.3	9400.9	9871.4	10474.6	10858.6	10877.8	10745.1	10405.8	9805.8	9356.1	9327.3
60°	9007.3	9047.3	9693.7	10757.9	11782.0	12207.5	11633.1	10665.0	9567.3	8943.2	8869.6
62.5°	7810.4	7916.0	8695.3	10412.3	12527.7	13737.4	12345.2	10271.4	8588.1	7773.6	7725.5
65°	5597.3	5781.4	6642.2	8885.6	12460.4	15081.4	12242.8	8813.7	6706.3	5767.0	5698.2
67.5°	2539.4	2726.7	3457.9	6083.8	10831.5	14716.6	10805.9	6147.8	3630.8	2736.2	2696.3
70°	920.0	952.1	1187.4	2435.4	6922.2	11725.9	7218.3	2453.0	1262.5	1014.5	1001.7
72.5°	556.9	561.7	611.3	872.1	2405.1	7119.1	2507.5	900.9	624.0	553.7	563.2
75°	353.6	350.4	435.2	532.9	852.9	2401.9	894.5	532.9	433.7	395.2	398.4
77.5°	254.4	262.4	312.0	398.4	537.6	814.5	528.1	380.8	312.0	256.0	260.9
80°	190.4	195.3	227.2	310.5	377.6	507.3	336.0	281.7	235.2	160.0	164.8
82.5°	137.7	137.7	148.8	225.6	230.4	273.7	182.4	198.4	155.2	113.6	113.6
85°	81.6	80.1	92.8	134.4	120.0	100.9	83.2	121.6	97.6	70.4	68.8
87.5°	28.8	30.4	28.8	38.4	32.0	27.2	25.6	33.6	27.2	24.0	22.4
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)