

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: P969202

Luminaire Tested: **NAV-SB5D-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969202
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-SB5D-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44025.8 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 364.9
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

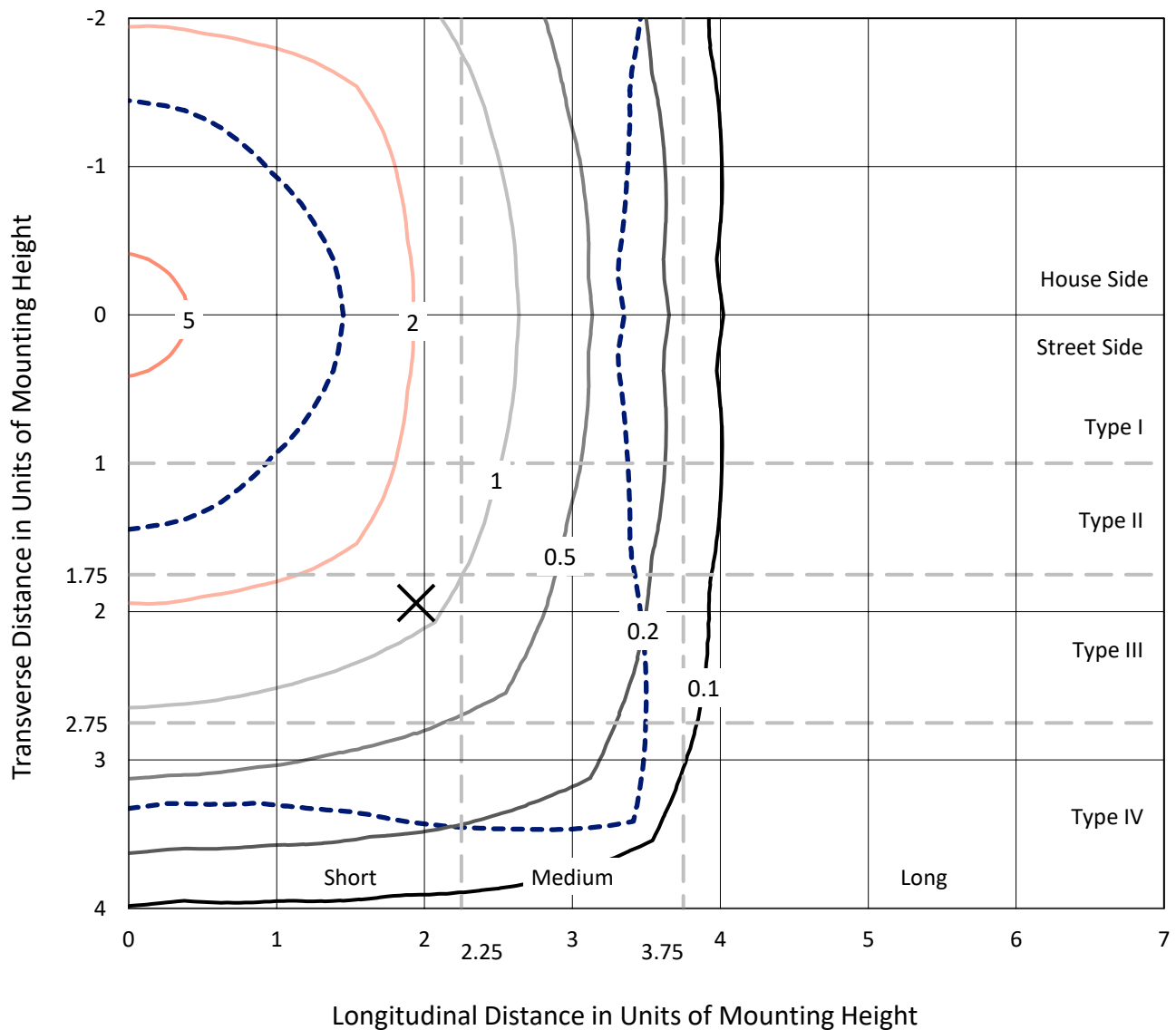


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Iso-Footcandle Lines of Horizontal Illumination

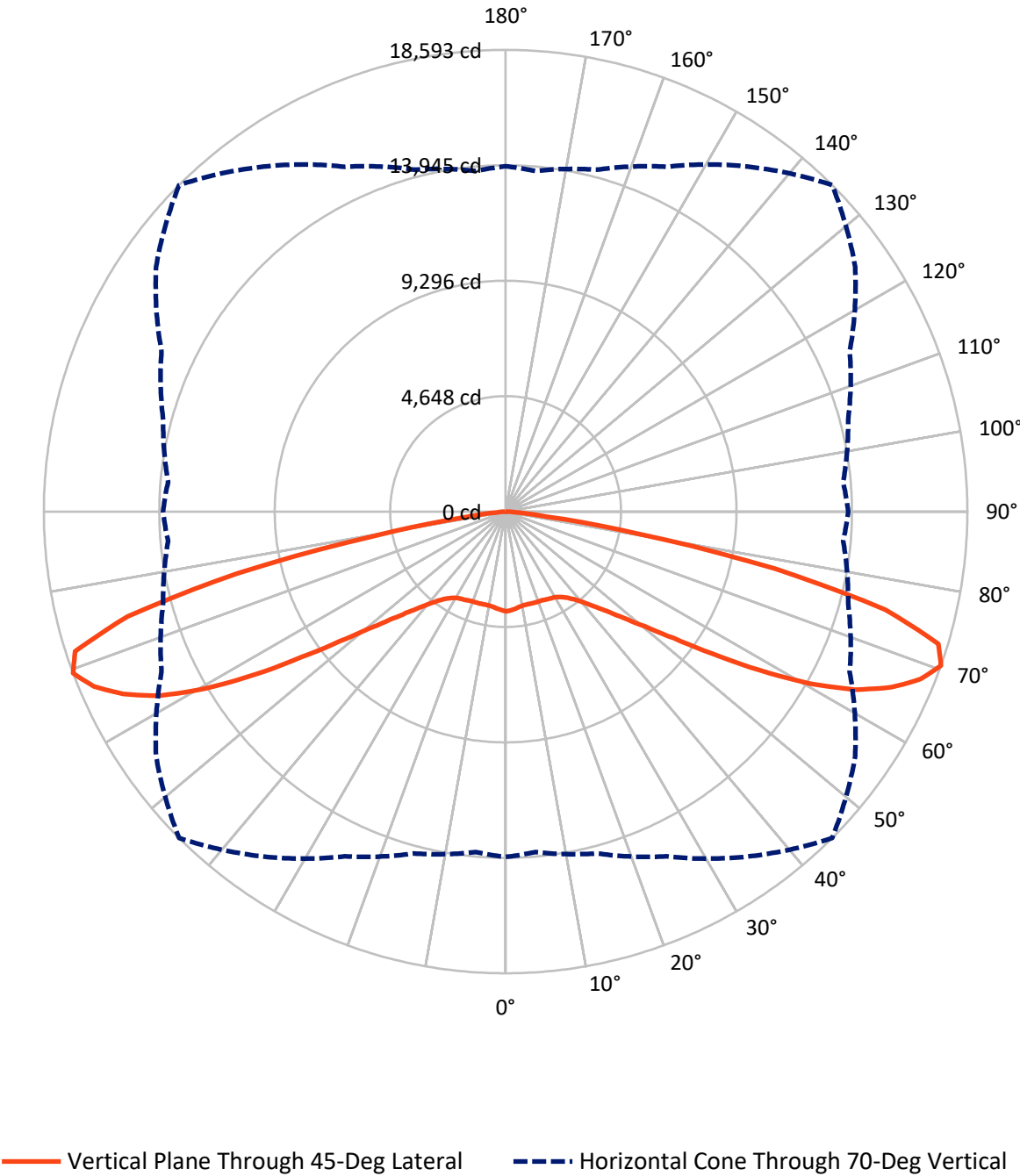
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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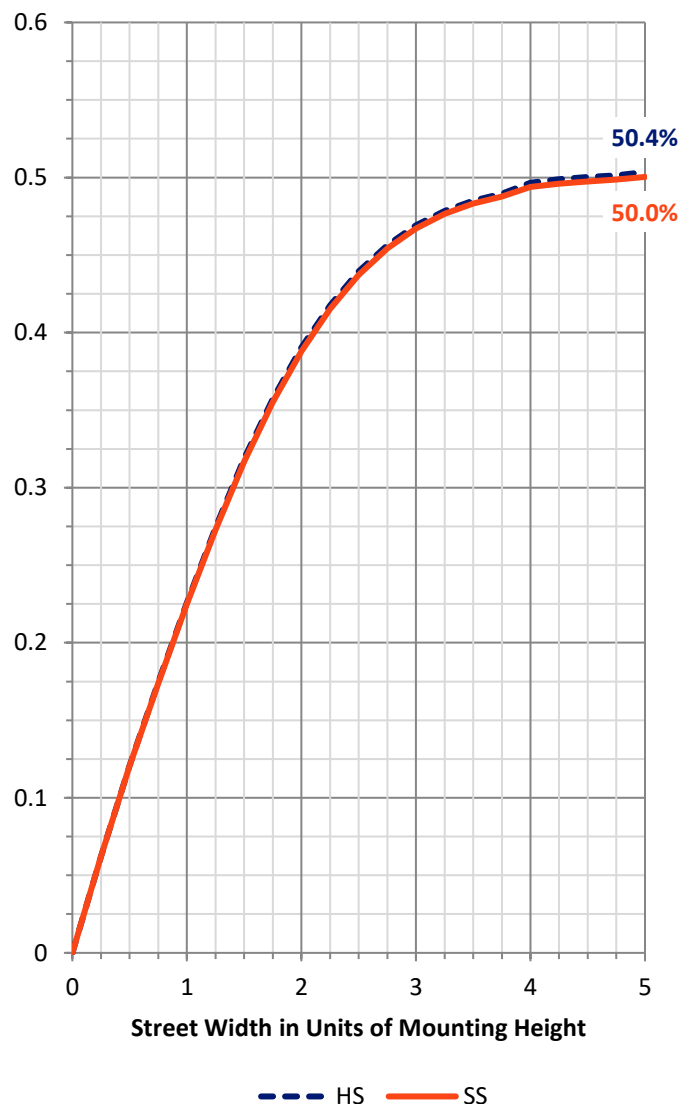
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22012.9	0.0	22012.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22012.9	0.0	22012.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	44025.8	0.0	44025.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.6	0.8
10°-20°	1096.9	2.5
20°-30°	1825.5	4.1
30°-40°	2760.7	6.3
40°-50°	4587.6	10.4
50°-60°	8656.6	19.7
60°-70°	14617.0	33.2
70°-80°	9604.9	21.8
80°-90°	503.2	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°	44025.8	100.0
0°-180°	44025.8	100.0

Coefficient of Utilization



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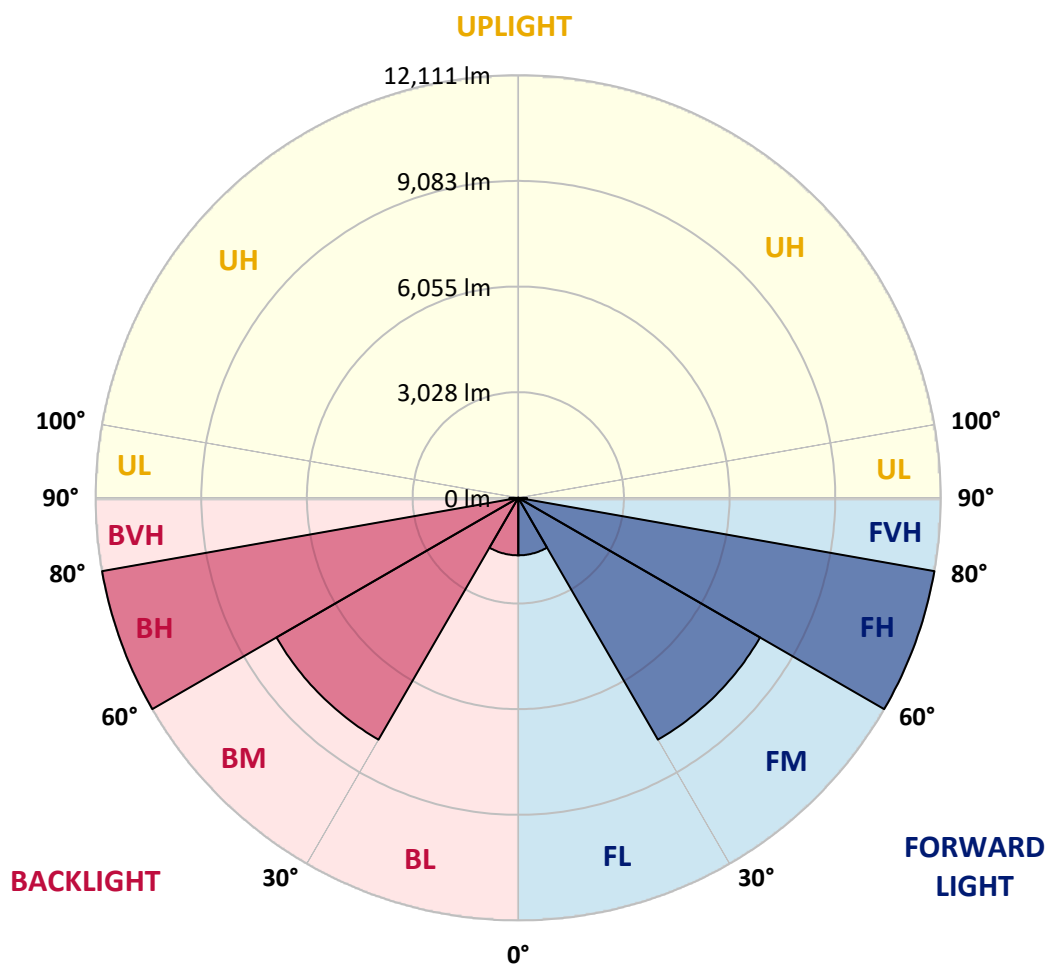
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1648.0	3.7			
FM	(30°-60°)	8002.4	18.2			
FH	(60°-80°)	12110.9	27.5			G5
FVH	(80°-90°)	251.6	0.6			G3/500
BL	(0°-30°)	1648.0	3.7	B3/2500		
BM	(30°-60°)	8002.4	18.2	B4/8500		
BH	(60°-80°)	12110.9	27.5	B5		G5
BVH	(80°-90°)	251.6	0.6			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4016.1	4016.1	4016.1	4016.1	4016.1	4016.1	4016.1	4016.1	4016.1	4016.1	4016.1
2.5°	3990.8	4002.3	3997.7	3988.6	3988.6	3981.7	3988.6	3993.2	4000.1	4004.6	4002.3
5°	3938.3	3947.4	3945.1	3938.3	3940.5	3933.6	3938.3	3945.1	3949.6	3952.0	3952.0
7.5°	3892.4	3901.7	3897.0	3885.6	3885.6	3878.7	3881.1	3887.9	3894.8	3897.0	3897.0
10°	3881.1	3890.2	3876.4	3858.1	3851.2	3842.1	3844.4	3851.2	3865.0	3871.8	3871.8
12.5°	3885.6	3892.4	3878.7	3851.2	3844.4	3835.2	3835.2	3842.1	3860.5	3869.6	3871.8
15°	3899.3	3906.2	3885.6	3855.8	3849.0	3842.1	3839.9	3849.0	3869.6	3885.6	3887.9
17.5°	3924.5	3931.4	3899.3	3858.1	3849.0	3851.2	3849.0	3855.8	3887.9	3917.7	3917.7
20°	3947.4	3952.0	3908.5	3858.1	3849.0	3851.2	3849.0	3862.7	3903.9	3945.1	3947.4
22.5°	3954.2	3958.9	3917.7	3874.2	3867.3	3869.6	3867.3	3881.1	3919.9	3961.1	3961.1
25°	3956.5	3963.4	3931.4	3897.0	3908.5	3913.0	3908.5	3910.8	3940.5	3977.1	3974.8
27.5°	3990.8	4000.1	3970.2	3940.5	3947.4	3945.1	3952.0	3958.9	3981.7	4018.3	4009.2
30°	4061.8	4068.6	4043.5	4013.8	4009.2	3993.2	4013.8	4036.7	4061.8	4093.8	4087.0
32.5°	4178.5	4192.2	4160.2	4128.2	4107.6	4098.5	4114.5	4153.3	4187.6	4222.0	4208.2
35°	4373.1	4382.2	4352.5	4292.9	4256.3	4256.3	4270.0	4320.4	4375.3	4418.8	4402.8
37.5°	4647.7	4659.0	4606.5	4535.5	4480.6	4480.6	4498.9	4551.5	4633.9	4695.6	4672.8
40°	4981.7	4997.7	4931.4	4858.2	4805.5	4796.4	4819.2	4878.8	4956.6	5034.4	5009.2
42.5°	5384.4	5402.8	5315.9	5251.8	5210.6	5210.6	5222.0	5276.9	5347.8	5444.0	5437.1
45°	5899.4	5931.4	5812.4	5748.3	5709.5	5718.6	5725.4	5773.5	5837.6	5947.4	5942.8
47.5°	6512.6	6544.6	6418.8	6352.4	6345.6	6389.0	6361.6	6395.9	6430.2	6556.1	6519.5
50°	7208.3	7263.2	7176.2	7171.6	7185.4	7265.5	7201.4	7219.7	7180.8	7260.9	7212.8
52.5°	8059.6	8139.6	8123.6	8151.1	8304.3	8469.2	8322.7	8258.6	8112.2	8137.4	8052.7
55°	9091.5	9212.9	9235.8	9400.5	9748.4	10084.8	9773.5	9515.0	9203.7	9146.5	9057.2
57.5°	10265.5	10361.6	10471.4	10807.8	11457.8	12055.0	11457.8	10885.6	10396.0	10279.2	10196.8
60°	11528.7	11647.7	11753.0	12249.5	13215.2	14055.0	13196.9	12288.4	11640.8	11482.9	11345.6
62.5°	12885.7	13038.9	13112.2	13663.7	14789.5	15791.9	14805.6	13704.9	12986.3	12817.0	12679.7
65°	14187.7	14313.6	14395.9	14984.1	16059.6	17064.2	16132.8	15048.1	14309.0	14087.0	13977.2
67.5°	14794.1	14862.8	15064.1	15730.1	16865.0	18011.5	17057.3	15801.0	14974.9	14585.9	14590.5
70°	13906.3	13766.7	14251.8	15318.1	16961.2	18592.8	17180.8	15286.1	14274.7	13643.1	13794.1
72.5°	10746.1	10505.7	11347.9	13171.7	15862.8	18222.0	15972.6	13274.7	11872.0	10590.4	10908.6
75°	5846.7	5574.4	6736.9	9043.6	12649.9	15794.1	12940.5	9302.1	7501.2	5803.2	6180.9
77.5°	1649.9	1546.9	2485.1	4375.3	7608.8	11089.3	7901.6	4471.5	2947.4	1748.3	1942.8
80°	505.7	489.7	663.6	1318.0	3231.1	5311.2	3105.2	1334.1	844.4	533.2	562.9
82.5°	299.8	274.6	329.5	480.5	823.8	1668.2	800.9	501.1	402.7	270.0	292.9
85°	171.6	160.2	194.5	233.4	276.9	354.6	231.1	238.0	215.1	144.1	151.0
87.5°	70.9	64.1	75.5	73.2	64.1	82.4	61.8	73.2	86.9	57.2	52.6
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)