

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: P971561

Luminaire Tested: **NAV-SB6D-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971561
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-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58524.4 lumens
Efficiency: N/A
Efficacy: 133.0 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

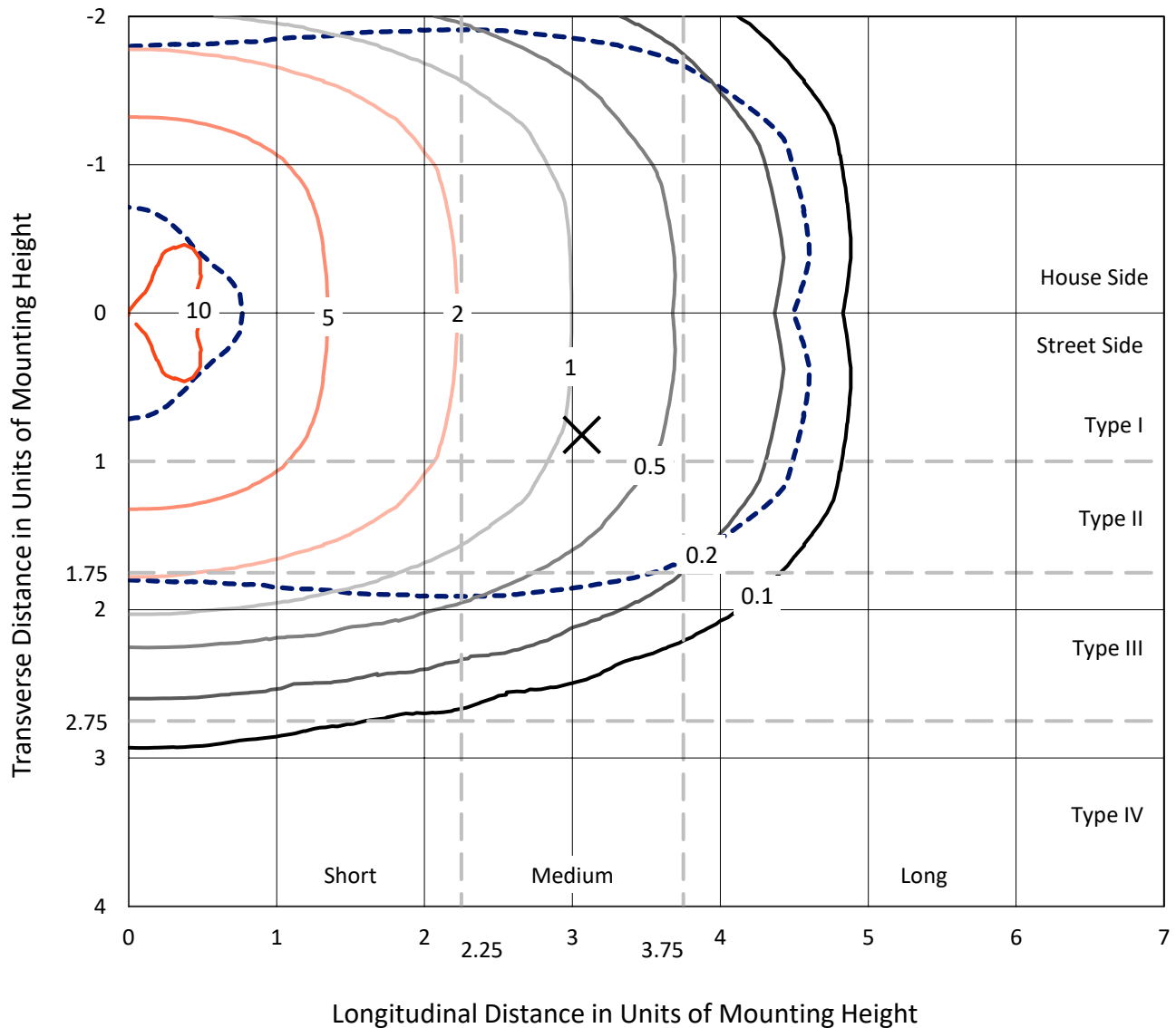


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

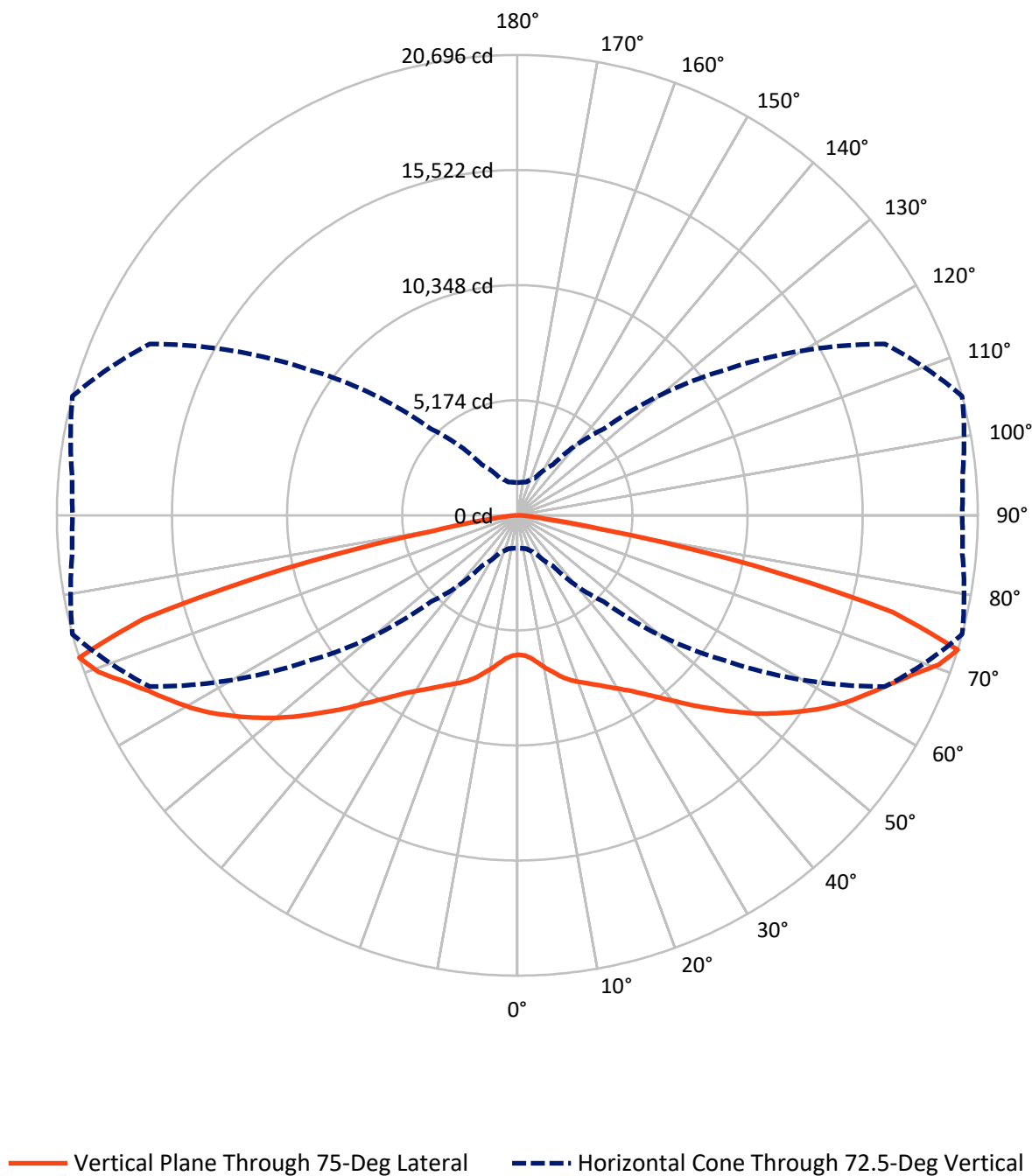


Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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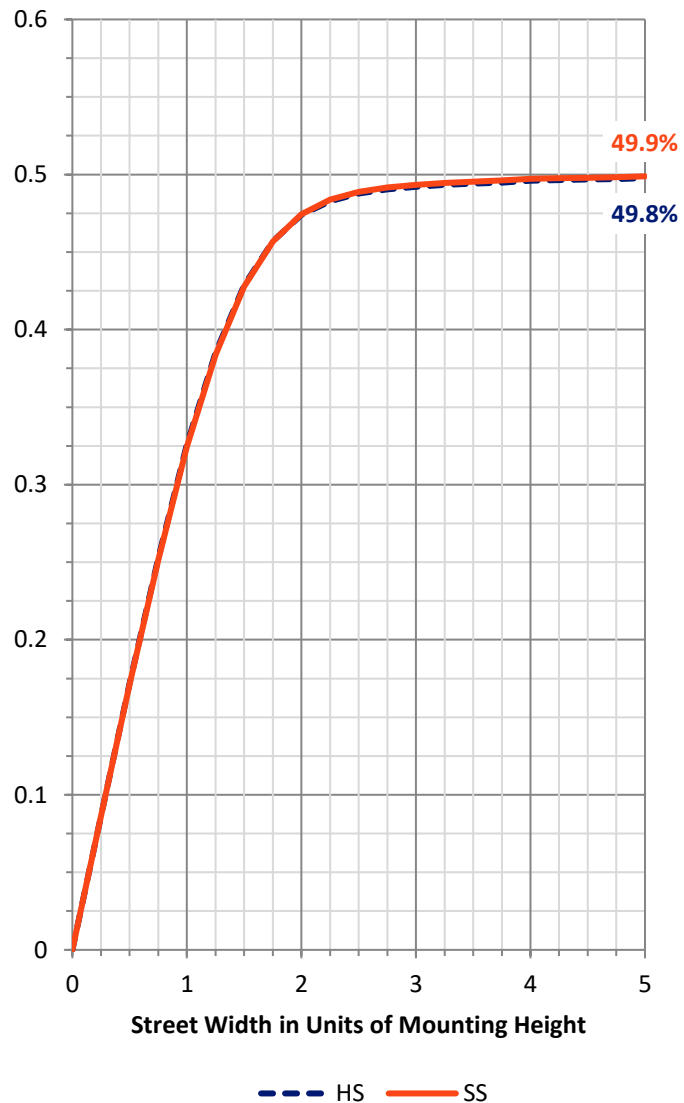
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29262.2	0.0	29262.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29262.2	0.0	29262.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	58524.4	0.0	58524.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.1	1.0
10°-20°	2025.4	3.5
20°-30°	3913.7	6.7
30°-40°	6608.6	11.3
40°-50°	10480.5	17.9
50°-60°	14032.1	24.0
60°-70°	13354.1	22.8
70°-80°	6968.4	11.9
80°-90°	527.5	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°	58524.4	100.0
0°-180°	58524.4	100.0

Coefficient of Utilization



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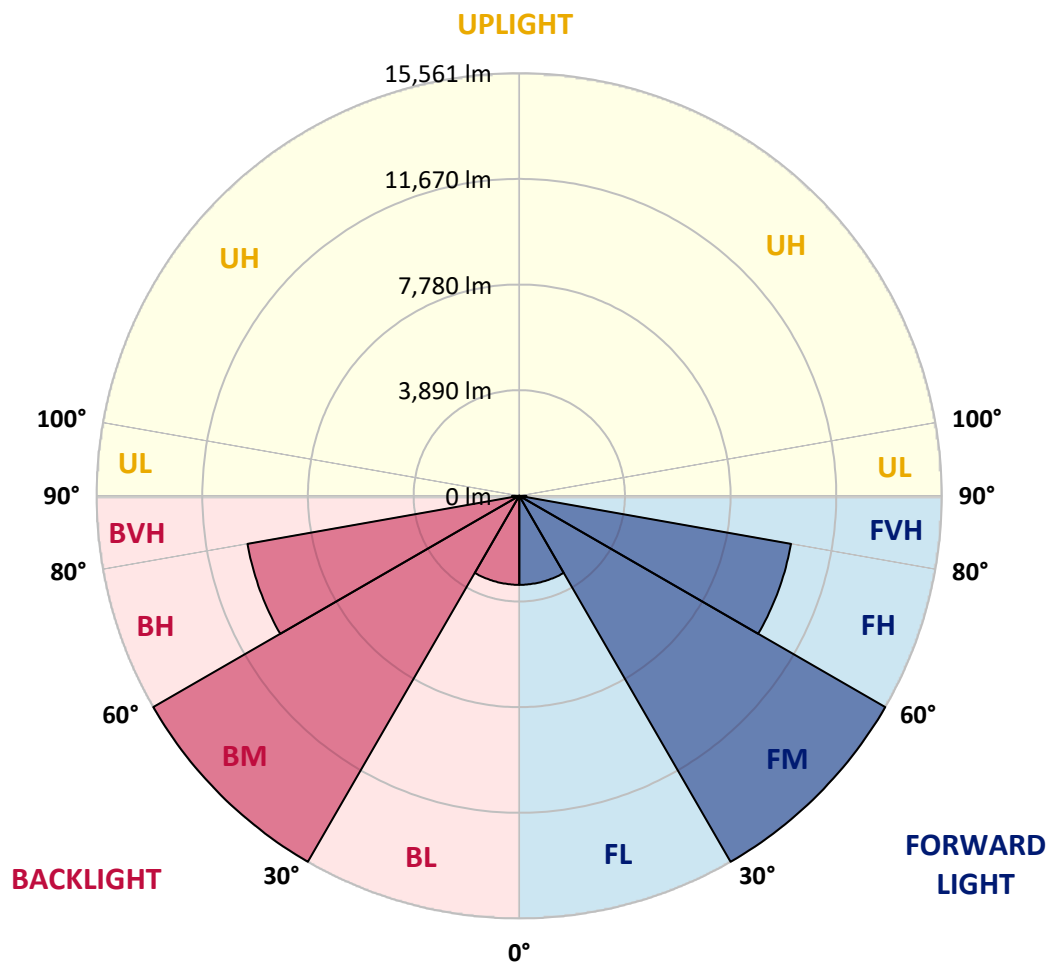
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3276.6	5.6			
FM	(30°-60°)	15560.6	26.6			
FH	(60°-80°)	10161.2	17.4			G4/12000
FVH	(80°-90°)	263.7	0.5			G3/500
BL	(0°-30°)	3276.6	5.6	B4/5000		
BM	(30°-60°)	15560.6	26.6	B5		
BH	(60°-80°)	10161.2	17.4	B5		G5
BVH	(80°-90°)	263.7	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°	6269.0	6269.0	6269.0	6269.0	6269.0	6269.0	6269.0	6269.0	6269.0	6269.0	6269.0
2.5°	6269.0	6263.1	6269.0	6274.9	6272.0	6272.0	6286.9	6295.9	6313.8	6310.8	6307.8
5°	6227.2	6224.2	6248.1	6274.9	6295.9	6331.7	6376.6	6409.4	6451.2	6460.3	6460.3
7.5°	6206.3	6197.3	6239.2	6286.9	6352.6	6442.3	6528.9	6618.6	6690.4	6714.3	6720.2
10°	6221.2	6224.2	6281.0	6370.6	6475.2	6600.7	6723.2	6875.6	6977.2	7001.1	7025.0
12.5°	6289.9	6284.0	6379.6	6523.0	6666.4	6824.8	6968.3	7135.5	7246.1	7302.9	7326.8
15°	6415.5	6403.5	6538.0	6750.1	6959.2	7144.6	7261.1	7419.5	7547.9	7619.6	7646.5
17.5°	6564.8	6570.8	6747.1	7022.0	7296.9	7506.1	7616.7	7697.3	7795.9	7858.7	7888.6
20°	6827.8	6839.7	7036.9	7362.7	7676.4	7915.5	8005.0	7975.2	8002.1	8049.9	8085.8
22.5°	7180.3	7186.4	7407.5	7760.1	8088.8	8351.7	8411.5	8289.0	8214.2	8247.2	8271.0
25°	7589.7	7628.6	7849.8	8211.3	8548.9	8799.9	8826.8	8641.6	8456.2	8465.3	8480.2
27.5°	8088.8	8124.7	8348.7	8707.3	9051.0	9269.1	9266.1	9018.1	8746.1	8677.4	8698.4
30°	8629.6	8668.4	8898.5	9269.1	9588.8	9780.0	9738.2	9442.4	9053.9	8925.4	8940.4
32.5°	9272.0	9295.9	9529.0	9899.6	10195.4	10347.8	10261.1	9896.6	9412.5	9266.1	9301.9
35°	10049.0	10084.8	10258.1	10607.7	10867.7	10993.2	10846.8	10416.5	9872.7	9708.3	9732.2
37.5°	10936.4	10912.5	11109.8	11420.4	11635.6	11713.3	11513.1	11002.1	10398.5	10204.3	10240.2
40°	11862.7	11850.7	12065.9	12364.7	12481.2	12529.1	12233.3	11674.4	11005.1	10796.0	10864.7
42.5°	12702.4	12693.4	12983.3	13315.0	13455.4	13401.6	13028.1	12388.7	11707.3	11468.3	11528.1
45°	13374.7	13362.7	13718.3	14184.5	14459.4	14369.7	13867.7	13177.5	12418.5	12170.5	12227.2
47.5°	13891.6	13897.6	14280.1	14856.8	15337.9	15370.7	14725.4	13981.3	13201.4	12920.5	13004.2
50°	14265.1	14283.1	14692.5	15331.8	15989.3	16279.2	15600.8	14806.0	14011.1	13694.4	13790.0
52.5°	14357.8	14390.7	14883.7	15633.7	16407.6	16960.4	16491.2	15597.8	14779.1	14477.3	14555.0
55°	13864.8	13930.5	14555.0	15609.8	16664.6	17408.6	17274.1	16401.6	15553.0	15242.3	15328.9
57.5°	12732.2	12824.9	13554.0	14931.5	16607.8	17716.4	17880.7	17172.5	16326.9	16028.1	16096.8
60°	11145.5	11256.1	11955.4	13458.4	15807.0	17830.0	18308.0	17922.5	17038.1	16748.3	16811.0
62.5°	8752.2	8895.6	9732.2	11495.2	14115.8	17301.1	18672.5	18600.9	17677.6	17315.9	17357.9
65°	5614.6	5767.1	6648.5	8731.2	11859.8	15681.5	18786.1	19261.2	18352.8	17847.9	17910.6
67.5°	3385.5	3454.2	3890.5	5291.9	8668.4	13240.2	17823.9	19993.3	19141.7	18514.2	18562.0
70°	2166.3	2205.2	2465.1	3107.6	4900.4	9660.5	15439.5	20130.8	20097.9	19198.5	19192.5
72.5°	1470.2	1482.0	1550.8	1840.7	2772.9	5489.1	11387.6	18224.4	20695.5	20080.0	19984.3
75°	1075.7	1141.4	1252.0	1302.8	1574.7	2743.1	6526.0	12804.0	17441.5	17710.5	17059.0
77.5°	800.8	803.8	956.2	1016.0	1123.5	1461.1	2761.0	7147.5	10828.8	11369.7	10141.6
80°	678.3	642.5	639.5	818.8	845.6	911.3	1234.1	2468.2	3878.5	2351.7	1778.0
82.5°	564.8	525.9	475.1	639.5	576.7	558.7	534.8	1004.0	1234.1	606.6	516.9
85°	394.4	376.5	358.5	418.3	328.7	280.8	257.0	469.1	519.9	257.0	227.1
87.5°	170.4	176.3	179.3	185.2	137.5	98.6	98.6	131.5	131.5	101.6	74.7
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)