

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: P963591

Luminaire Tested: **NAV-SB3A-760-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963591
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-SB3A-760-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14763.1 lumens
Efficiency: N/A
Efficacy: 174.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

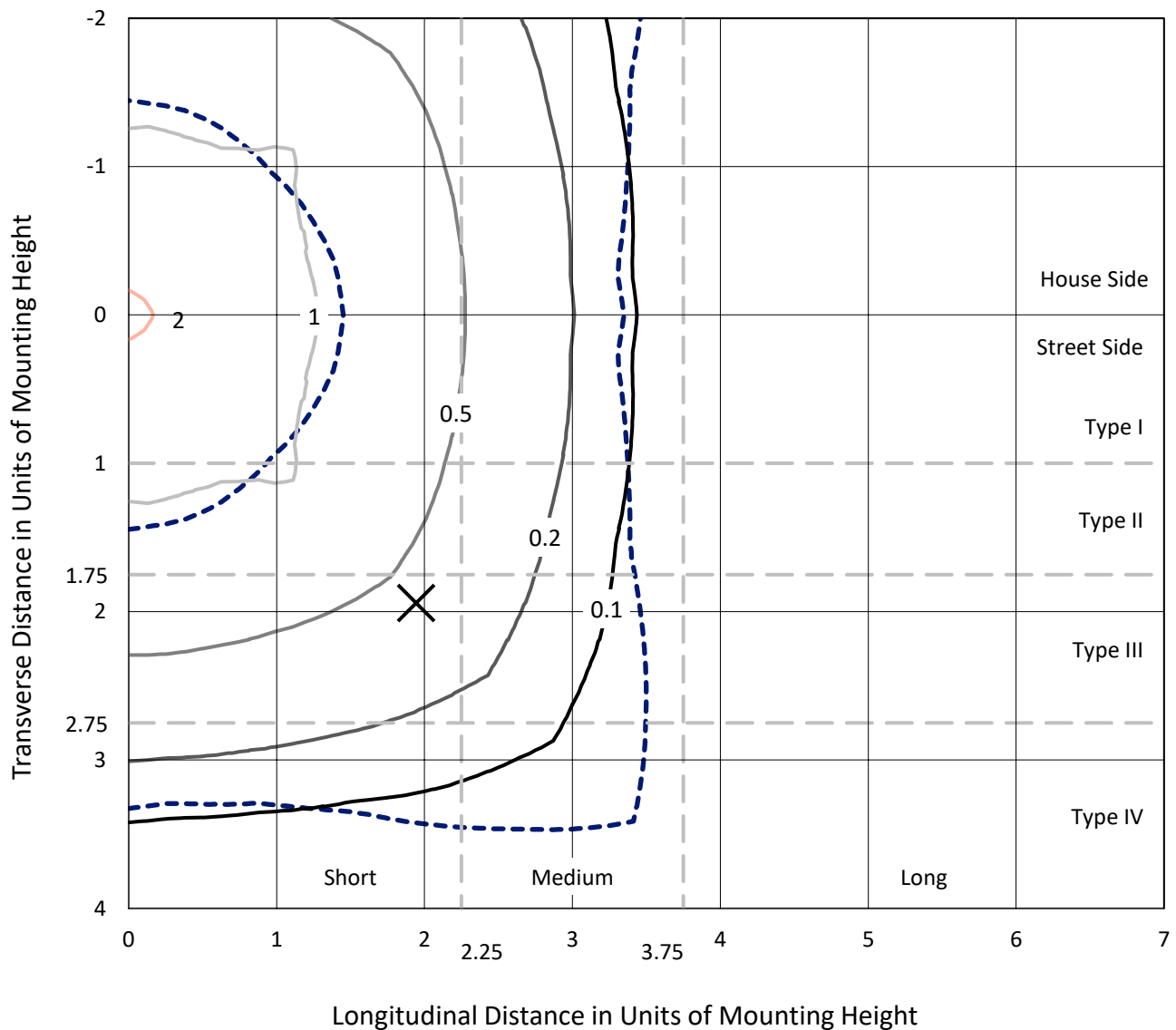
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

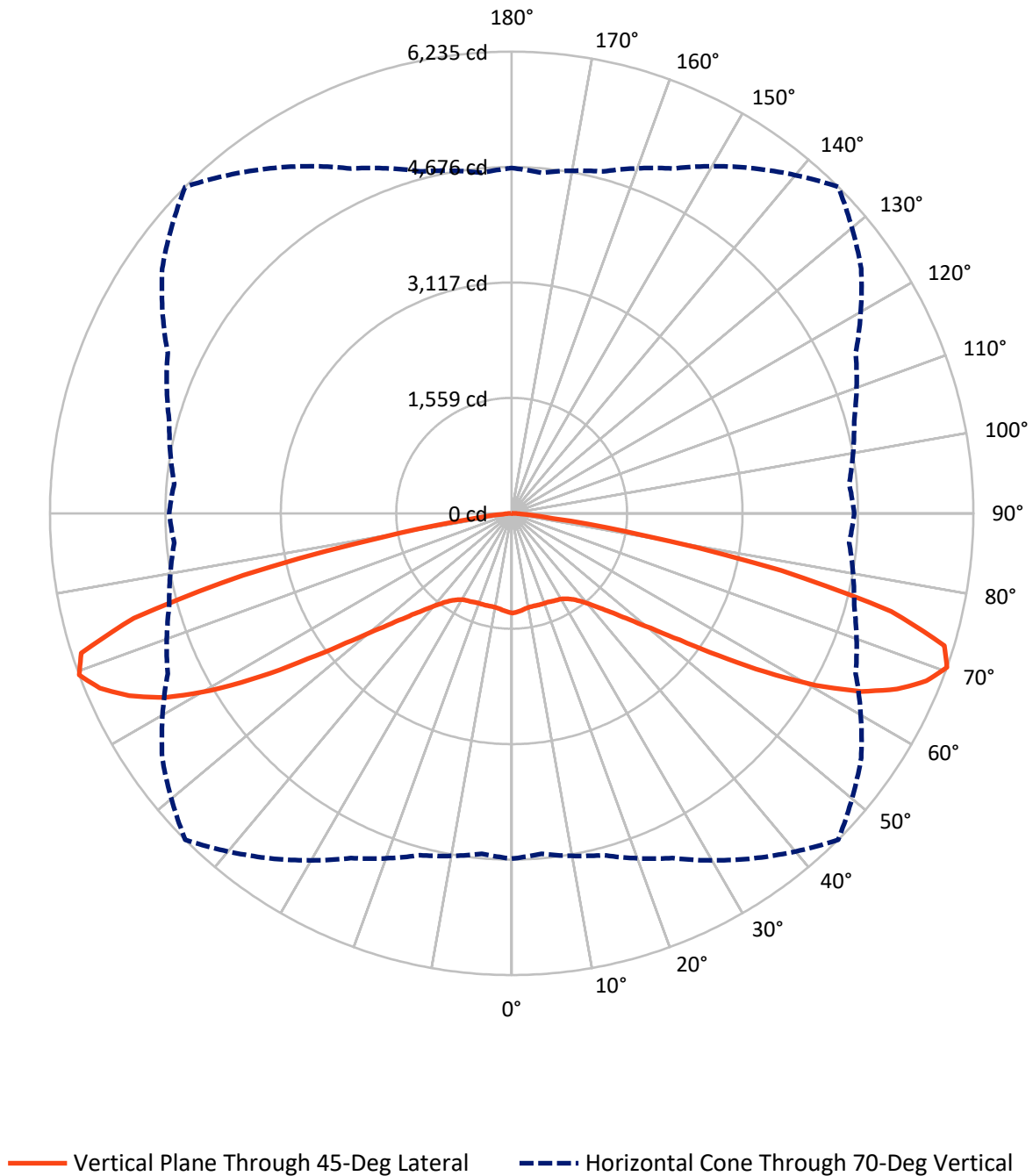
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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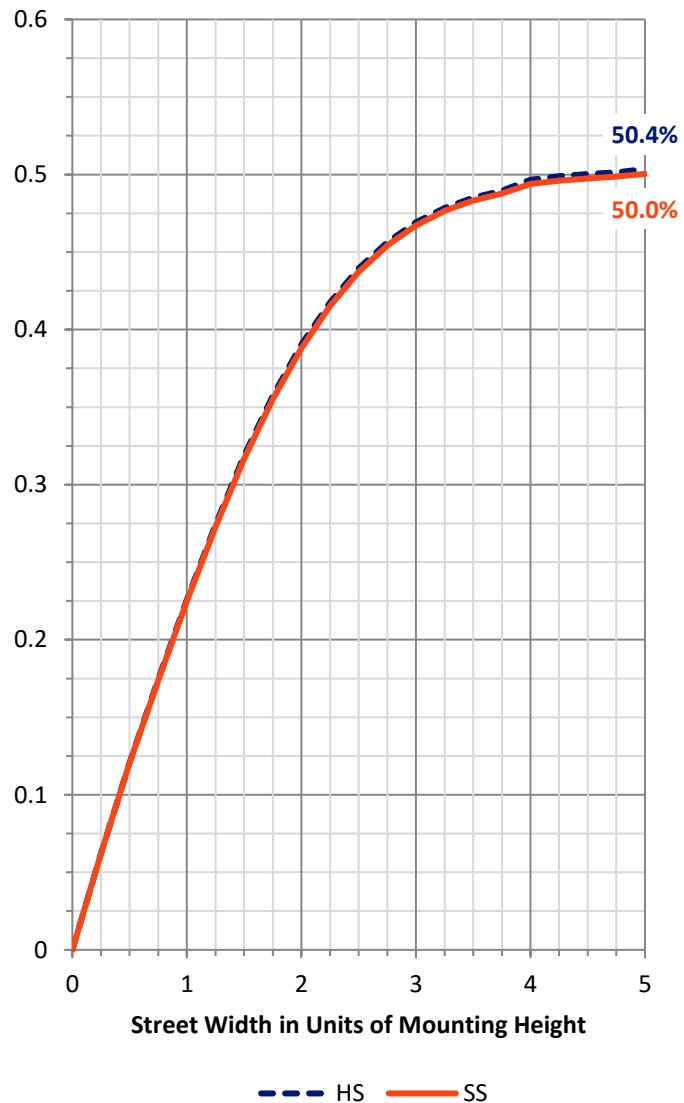
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7381.5	0.0	7381.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7381.5	0.0	7381.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14763.1	0.0	14763.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	0.8
10°-20°	367.8	2.5
20°-30°	612.1	4.1
30°-40°	925.7	6.3
40°-50°	1538.3	10.4
50°-60°	2902.8	19.7
60°-70°	4901.5	33.2
70°-80°	3220.8	21.8
80°-90°	168.7	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°	14763.1	100.0
0°-180°	14763.1	100.0

Coefficient of Utilization



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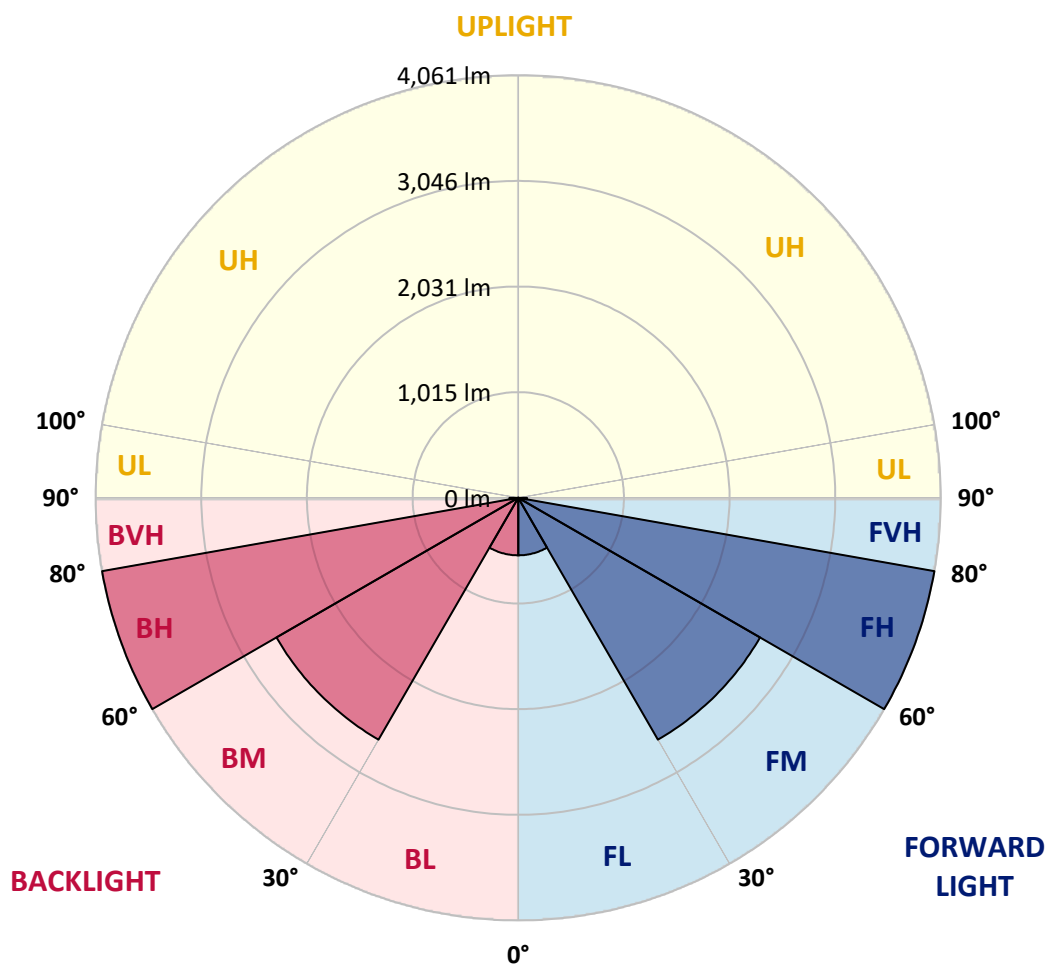
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	552.6	3.7			
FM	(30°-60°)	2683.4	18.2			
FH	(60°-80°)	4061.1	27.5			G2/5000
FVH	(80°-90°)	84.4	0.6			G1/100
BL	(0°-30°)	552.6	3.7	B2/1000		
BM	(30°-60°)	2683.4	18.2	B3/5000		
BH	(60°-80°)	4061.1	27.5	B4/5000		G2/5000
BVH	(80°-90°)	84.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6	1346.6
2.5°	1338.2	1342.1	1340.6	1337.5	1337.5	1335.2	1337.5	1339.1	1341.3	1342.9	1342.1
5°	1320.6	1323.7	1322.9	1320.6	1321.3	1319.1	1320.6	1322.9	1324.4	1325.2	1325.2
7.5°	1305.2	1308.3	1306.8	1303.0	1303.0	1300.6	1301.4	1303.7	1306.1	1306.8	1306.8
10°	1301.4	1304.5	1299.9	1293.8	1291.4	1288.3	1289.1	1291.4	1296.0	1298.4	1298.4
12.5°	1303.0	1305.2	1300.6	1291.4	1289.1	1286.1	1286.1	1288.3	1294.5	1297.5	1298.4
15°	1307.6	1309.8	1303.0	1292.9	1290.7	1288.3	1287.6	1290.7	1297.5	1303.0	1303.7
17.5°	1316.0	1318.3	1307.6	1293.8	1290.7	1291.4	1290.7	1292.9	1303.7	1313.7	1313.7
20°	1323.7	1325.2	1310.7	1293.8	1290.7	1291.4	1290.7	1295.3	1309.1	1322.9	1323.7
22.5°	1325.9	1327.5	1313.7	1299.1	1296.8	1297.5	1296.8	1301.4	1314.5	1328.3	1328.3
25°	1326.8	1329.0	1318.3	1306.8	1310.7	1312.2	1310.7	1311.4	1321.3	1333.6	1332.9
27.5°	1338.2	1341.3	1331.4	1321.3	1323.7	1322.9	1325.2	1327.5	1335.2	1347.5	1344.4
30°	1362.0	1364.4	1355.9	1345.9	1344.4	1339.1	1345.9	1353.6	1362.0	1372.8	1370.5
32.5°	1401.2	1405.8	1395.0	1384.3	1377.4	1374.3	1379.6	1392.8	1404.2	1415.7	1411.1
35°	1466.4	1469.4	1459.5	1439.5	1427.2	1427.2	1431.8	1448.7	1467.2	1481.7	1476.4
37.5°	1558.5	1562.3	1544.7	1520.9	1502.4	1502.4	1508.6	1526.2	1553.9	1574.6	1566.9
40°	1670.5	1675.9	1653.6	1629.0	1611.4	1608.3	1616.0	1636.0	1662.0	1688.2	1679.7
42.5°	1805.5	1811.7	1782.6	1761.1	1747.2	1747.2	1751.1	1769.5	1793.2	1825.5	1823.2
45°	1978.2	1988.9	1949.0	1927.6	1914.5	1917.6	1919.9	1936.0	1957.5	1994.3	1992.8
47.5°	2183.9	2194.6	2152.4	2130.2	2127.8	2142.5	2133.2	2144.7	2156.2	2198.4	2186.1
50°	2417.2	2435.5	2406.4	2404.9	2409.5	2436.3	2414.8	2420.9	2407.9	2434.8	2418.7
52.5°	2702.6	2729.5	2724.0	2733.3	2784.7	2840.0	2790.9	2769.3	2720.2	2728.7	2700.3
55°	3048.7	3089.4	3097.0	3152.3	3268.9	3381.7	3277.3	3190.6	3086.3	3067.1	3037.2
57.5°	3442.3	3474.5	3511.3	3624.2	3842.1	4042.4	3842.1	3650.2	3486.0	3446.9	3419.3
60°	3865.9	3905.8	3941.1	4107.6	4431.4	4713.1	4425.2	4120.6	3903.5	3850.5	3804.5
62.5°	4320.9	4372.3	4396.8	4581.9	4959.4	5295.5	4964.7	4595.6	4354.7	4297.9	4251.9
65°	4757.5	4799.8	4827.3	5024.5	5385.2	5722.1	5409.7	5046.1	4798.2	4723.8	4686.9
67.5°	4960.9	4983.9	5051.4	5274.8	5655.3	6039.8	5719.8	5298.5	5021.5	4891.1	4892.6
70°	4663.1	4616.4	4779.1	5136.6	5687.5	6234.7	5761.2	5125.8	4786.6	4574.9	4625.5
72.5°	3603.5	3522.9	3805.3	4416.8	5319.2	6110.3	5356.0	4451.4	3981.0	3551.3	3657.9
75°	1960.5	1869.3	2259.1	3032.6	4241.9	5296.2	4339.3	3119.3	2515.4	1946.0	2072.5
77.5°	553.3	518.8	833.3	1467.2	2551.4	3718.6	2649.6	1499.4	988.3	586.3	651.5
80°	169.5	164.2	222.5	442.0	1083.5	1781.0	1041.3	447.4	283.1	178.8	188.8
82.5°	100.6	92.0	110.5	161.1	276.2	559.4	268.5	168.0	135.1	90.5	98.2
85°	57.5	53.7	65.2	78.3	92.9	118.9	77.5	79.8	72.2	48.4	50.6
87.5°	23.8	21.5	25.3	24.6	21.5	27.7	20.7	24.6	29.1	19.2	17.6
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)