

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: P960862

Luminaire Tested: **NAV-SB1D-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960862
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-SB1D-735-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10933.7 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

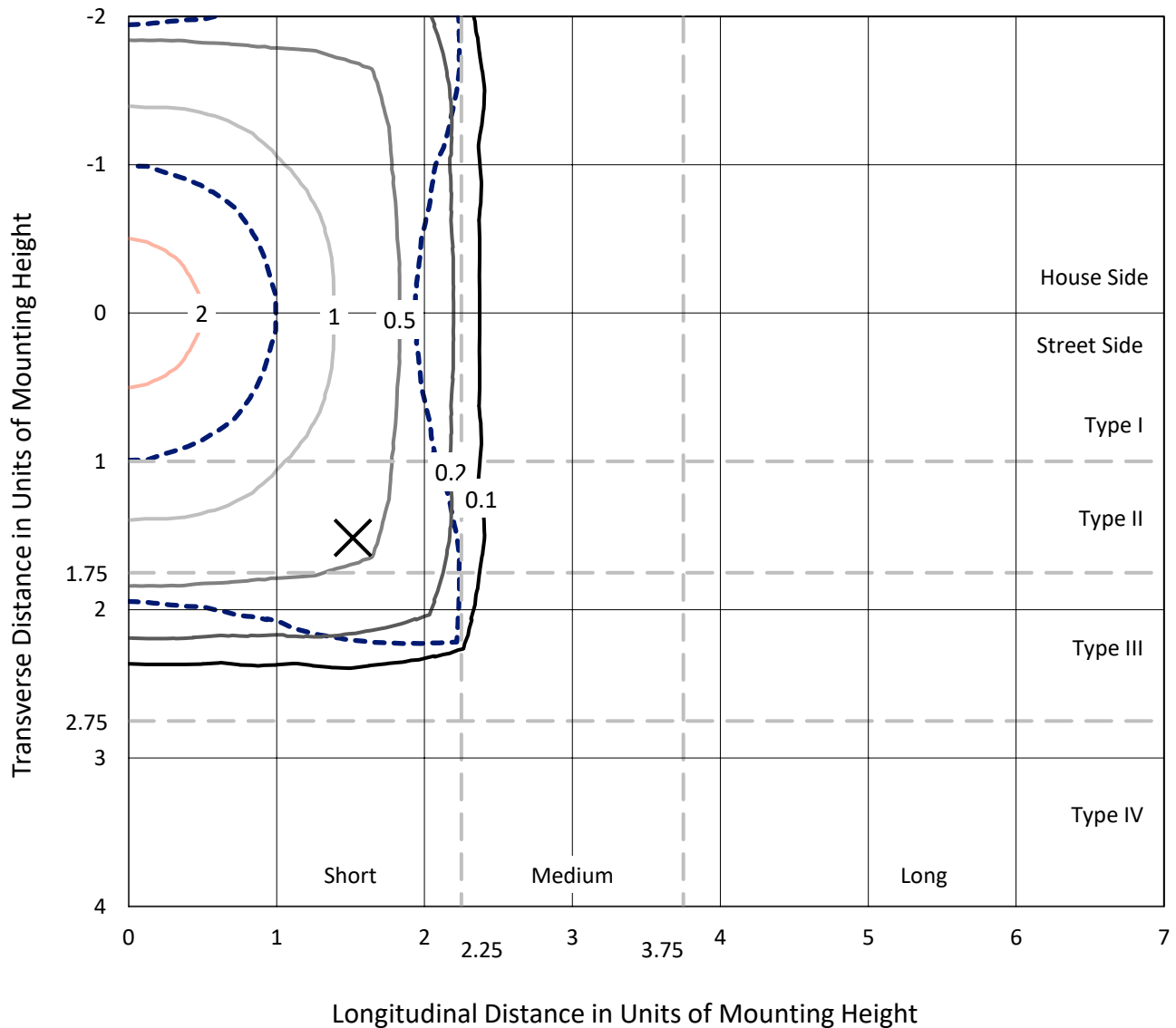
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

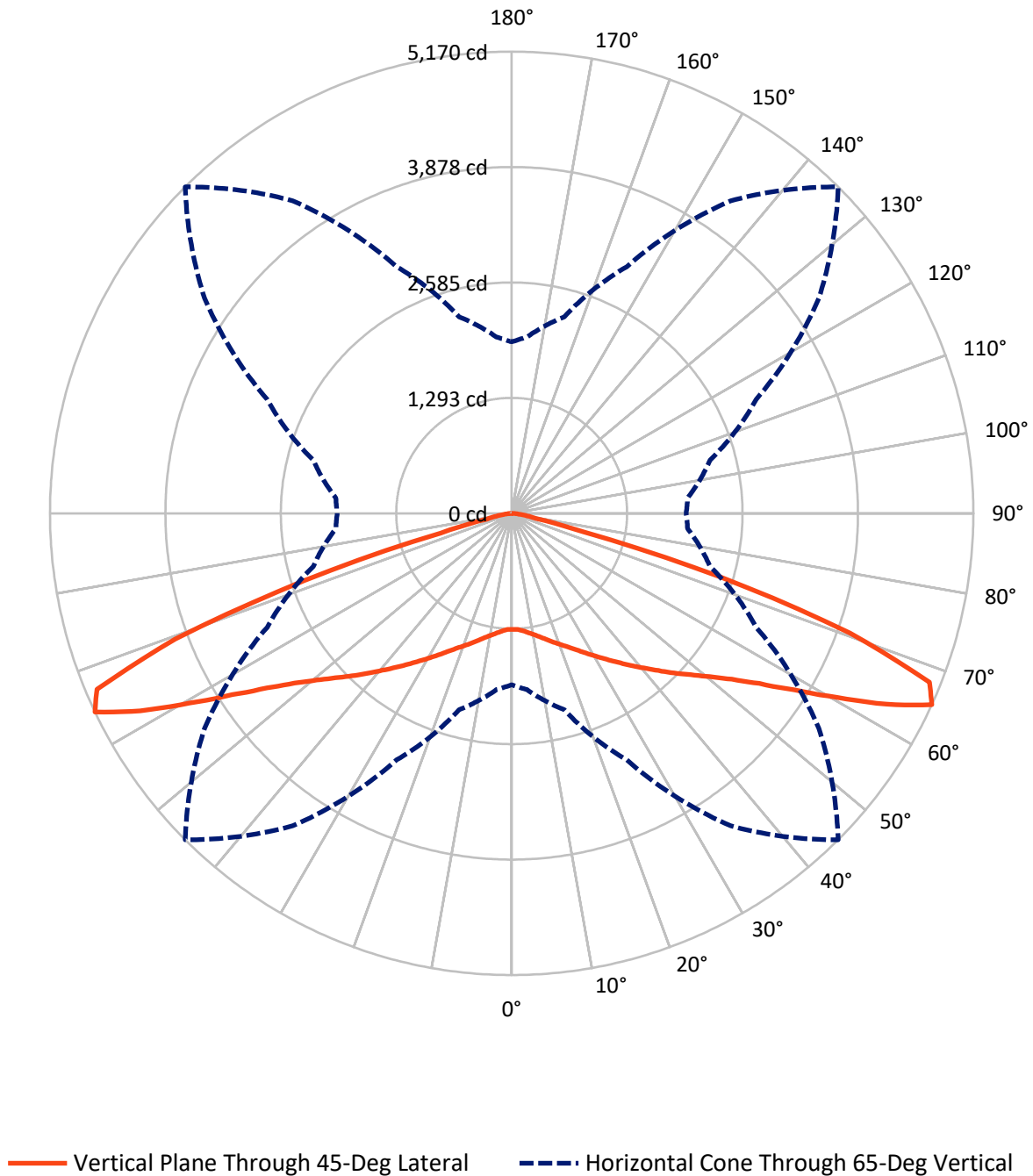
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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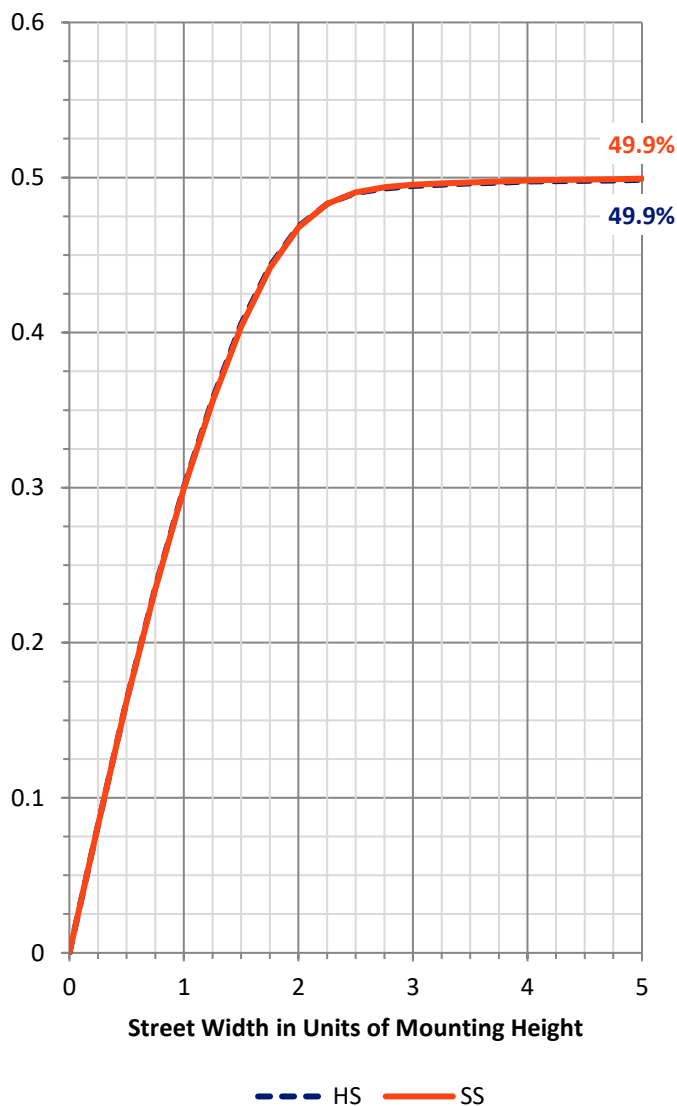
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5466.8	0.0	5466.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5466.8	0.0	5466.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10933.7	0.0	10933.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.2
10°-20°	419.0	3.8
20°-30°	791.2	7.2
30°-40°	1295.5	11.8
40°-50°	2008.8	18.4
50°-60°	2967.3	27.1
60°-70°	2824.6	25.8
70°-80°	455.8	4.2
80°-90°	43.0	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°	10933.7	100.0
0°-180°	10933.7	100.0

Coefficient of Utilization



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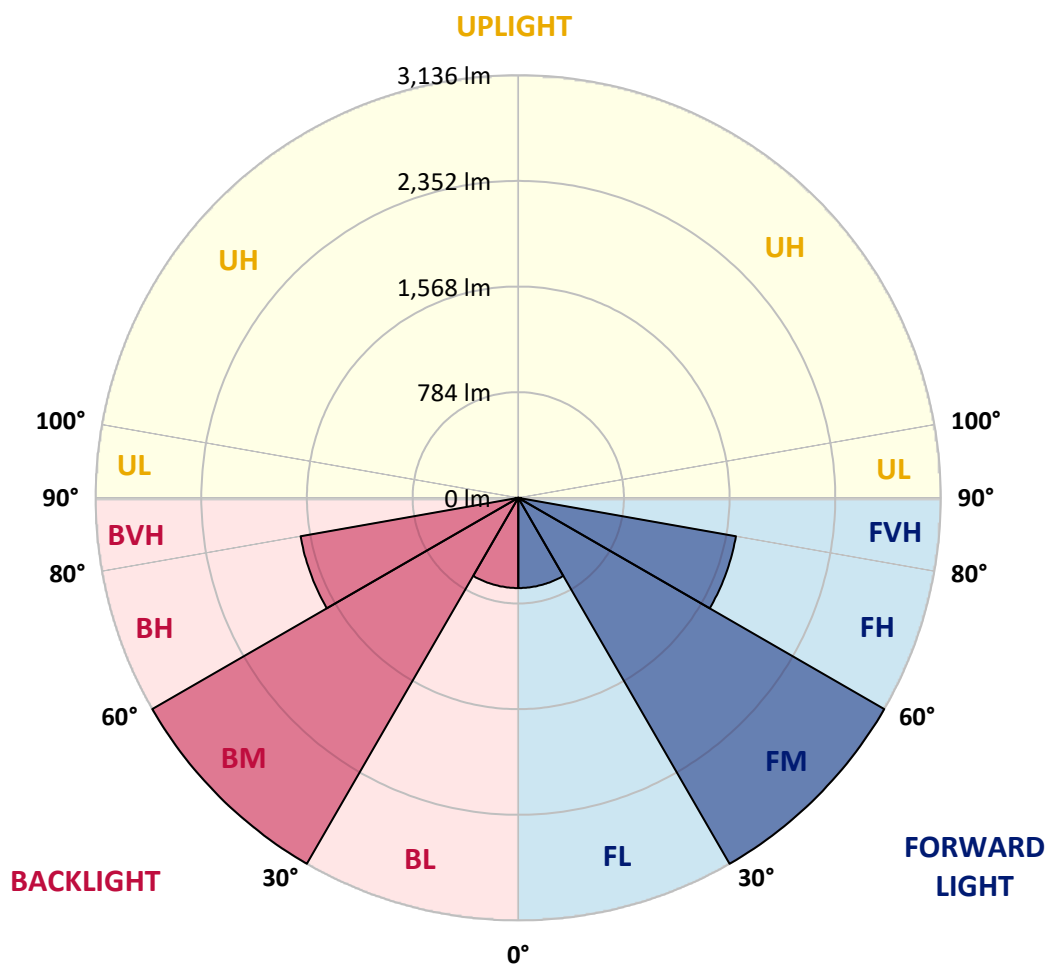
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	669.3	6.1			
FM	(30°-60°)	3135.8	28.7			
FH	(60°-80°)	1640.2	15.0			G1/1800
FVH	(80°-90°)	21.5	0.2			G1/100
BL	(0°-30°)	669.3	6.1	B2/1000		
BM	(30°-60°)	3135.8	28.7	B3/5000		
BH	(60°-80°)	1640.2	15.0	B3/2500		G1/1800
BVH	(80°-90°)	21.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1309.9	1305.6	1308.9	1306.2	1304.0	1301.8	1302.9	1306.7	1308.3	1308.9	1308.9
5°	1327.6	1323.7	1325.3	1325.3	1321.5	1320.4	1320.9	1323.7	1327.0	1327.0	1327.0
7.5°	1356.1	1352.3	1356.1	1353.9	1350.5	1349.5	1348.9	1351.2	1356.1	1356.1	1354.4
10°	1390.6	1386.2	1388.5	1387.3	1383.5	1381.9	1381.3	1384.6	1389.0	1388.5	1387.3
12.5°	1428.4	1423.5	1426.3	1423.0	1421.9	1420.2	1420.2	1419.7	1422.5	1420.2	1421.4
15°	1470.8	1467.4	1468.5	1466.4	1468.0	1466.9	1462.5	1460.3	1461.4	1458.1	1458.7
17.5°	1520.7	1513.0	1516.8	1515.7	1515.7	1517.9	1510.7	1508.0	1510.2	1507.0	1509.7
20°	1578.3	1570.6	1572.2	1570.0	1567.2	1569.5	1560.7	1562.9	1564.6	1562.3	1567.2
22.5°	1641.3	1631.5	1630.9	1632.0	1626.0	1626.5	1620.5	1626.0	1629.2	1623.2	1629.2
25°	1706.1	1695.7	1702.7	1700.1	1692.4	1694.0	1689.6	1695.0	1697.8	1690.1	1698.9
27.5°	1774.7	1767.5	1774.1	1775.7	1766.4	1772.9	1766.4	1771.3	1774.1	1762.6	1771.3
30°	1854.7	1847.6	1853.6	1858.0	1847.0	1857.5	1852.0	1855.2	1855.9	1842.1	1850.3
32.5°	1942.0	1931.0	1946.4	1948.5	1936.4	1949.0	1942.0	1946.4	1949.0	1930.4	1943.1
35°	2048.4	2034.6	2052.3	2049.5	2039.0	2049.5	2042.9	2049.5	2056.0	2033.6	2047.2
37.5°	2163.1	2148.8	2167.5	2162.4	2152.6	2159.8	2155.9	2160.3	2170.7	2146.6	2161.4
40°	2289.2	2271.6	2296.9	2288.1	2278.8	2277.7	2279.9	2282.6	2296.3	2269.5	2278.3
42.5°	2424.1	2405.5	2443.4	2429.7	2416.4	2407.7	2414.8	2420.3	2433.5	2403.3	2419.2
45°	2578.3	2556.9	2606.3	2589.8	2569.0	2550.9	2562.4	2570.6	2589.8	2553.6	2572.2
47.5°	2748.3	2724.2	2776.9	2771.9	2738.0	2698.4	2724.8	2748.3	2762.6	2718.7	2733.6
50°	2914.6	2895.9	2965.0	2971.1	2929.3	2874.0	2910.7	2946.4	2950.3	2892.7	2899.7
52.5°	3070.4	3051.7	3152.1	3190.0	3152.7	3086.8	3125.7	3162.0	3132.9	3058.3	3060.4
55°	3194.9	3179.5	3307.4	3404.9	3417.7	3363.3	3386.4	3385.3	3289.8	3175.1	3178.9
57.5°	3225.1	3222.9	3384.1	3591.0	3722.6	3729.2	3683.6	3567.4	3361.7	3207.5	3197.6
60°	3087.9	3101.6	3323.3	3688.1	4039.1	4185.1	3988.2	3656.3	3279.9	3066.0	3040.8
62.5°	2677.6	2713.8	2980.9	3569.6	4294.8	4709.5	4232.2	3521.3	2944.2	2665.0	2648.5
65°	1918.9	1982.0	2277.1	3046.2	4271.8	5170.3	4197.2	3021.5	2299.1	1977.0	1953.4
67.5°	870.6	934.8	1185.5	2085.7	3713.3	5045.3	3704.6	2107.6	1244.8	938.1	924.3
70°	315.4	326.4	407.0	835.0	2373.1	4019.9	2474.7	841.0	432.9	347.8	343.4
72.5°	190.9	192.6	209.5	299.0	824.5	2440.6	859.6	308.8	213.9	189.8	193.1
75°	121.3	120.1	149.2	182.7	292.4	823.4	306.7	182.7	148.6	135.5	136.6
77.5°	87.2	90.0	107.0	136.6	184.3	279.2	181.0	130.6	107.0	87.7	89.4
80°	65.3	66.9	77.9	106.4	129.5	173.9	115.2	96.6	80.7	54.8	56.5
82.5°	47.2	47.2	51.0	77.4	79.0	93.8	62.5	68.1	53.2	38.9	38.9
85°	28.0	27.5	31.8	46.1	41.1	34.5	28.5	41.7	33.4	24.1	23.6
87.5°	9.8	10.5	9.8	13.1	11.0	9.3	8.8	11.5	9.3	8.2	7.7
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)