

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: P961951

Luminaire Tested: **NAV-SB2B-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961951
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-SB2B-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12574.7 lumens
Efficiency: N/A
Efficacy: 170.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.9
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

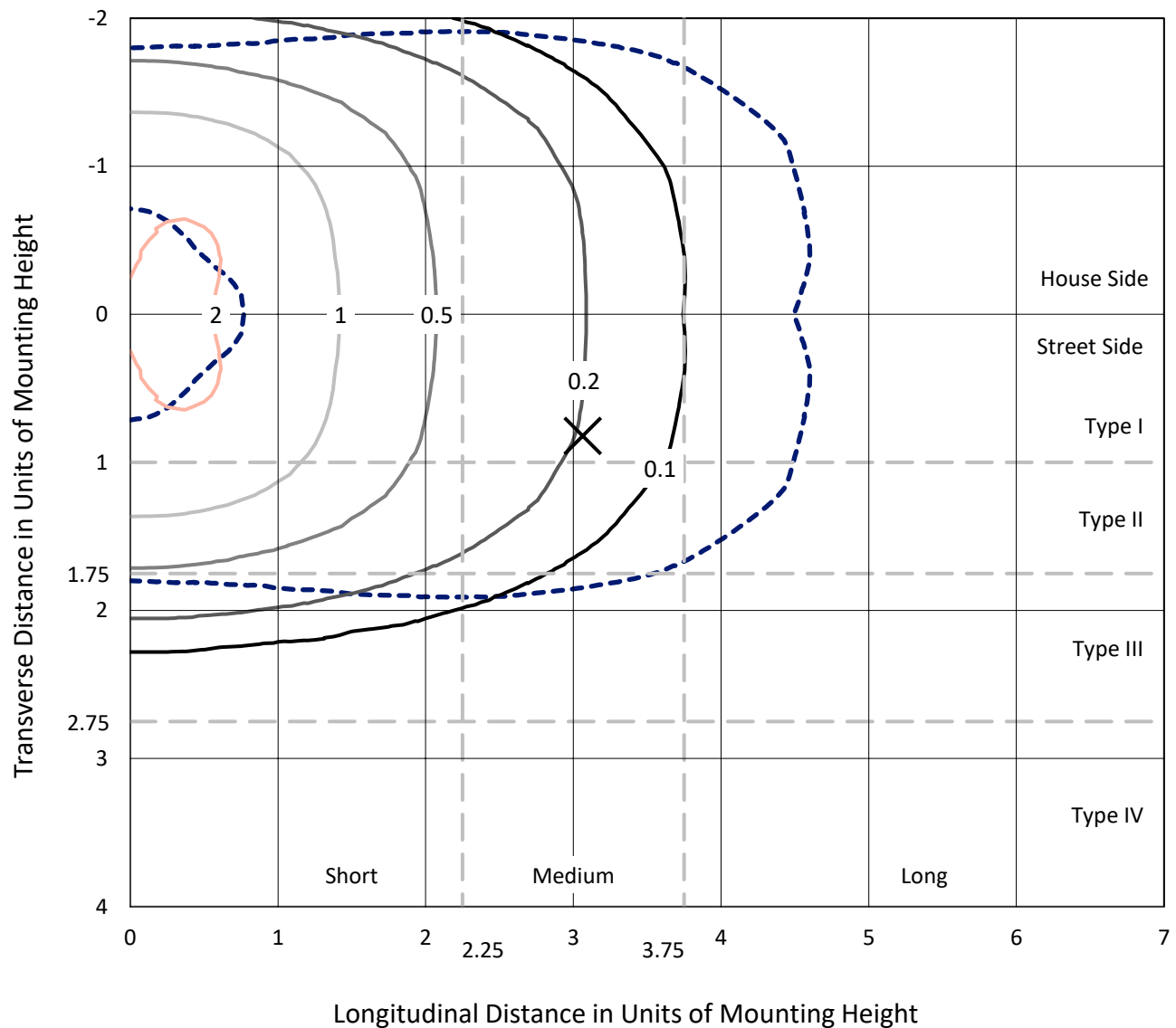


REPORT NUMBER: P961951

CATALOG NUMBER: NAV-SB2B-740-U-RW

Iso-Footcandle Lines of Horizontal Illumination

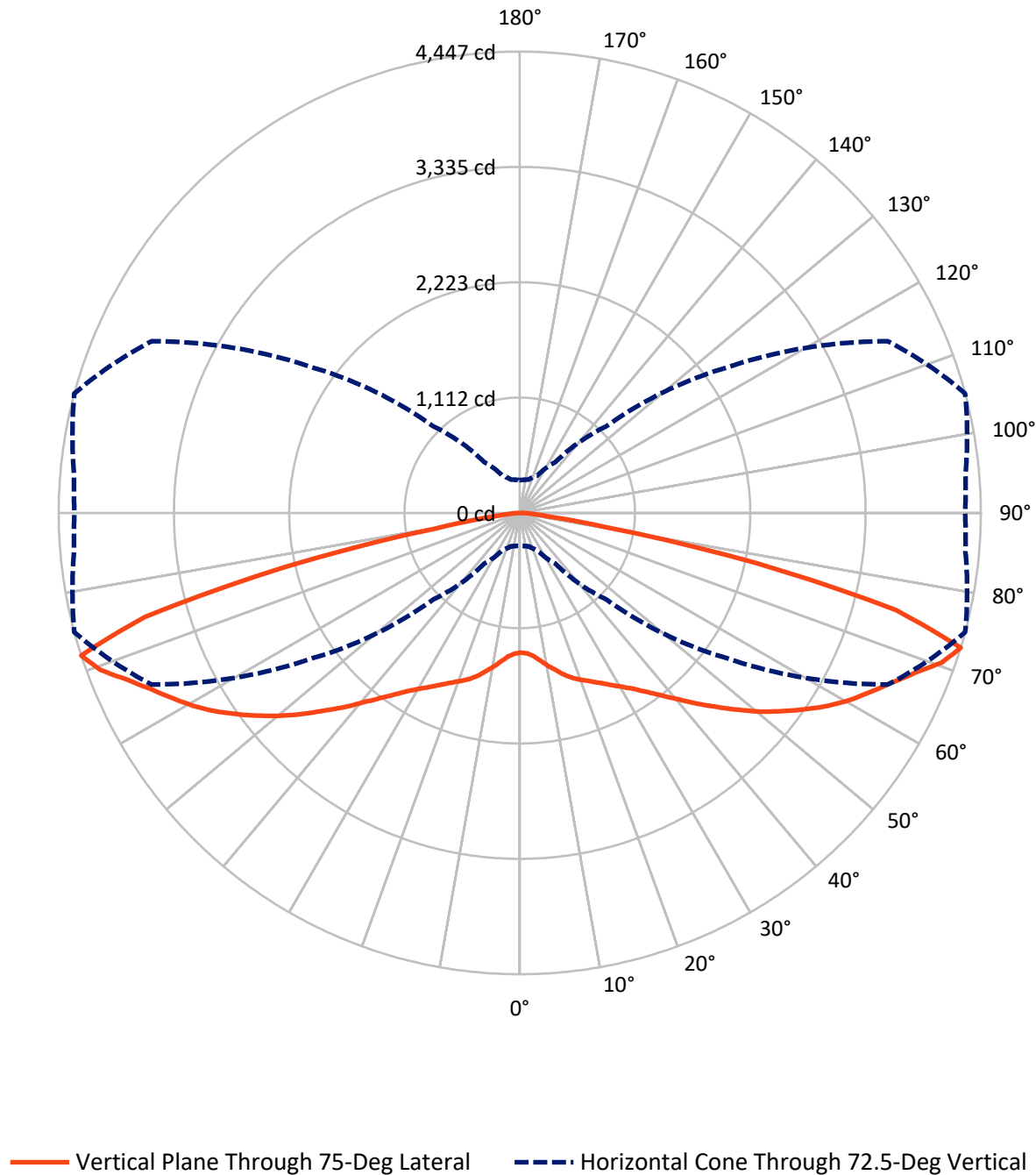
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type III - Medium - N/A

REPORT NUMBER: P961951
CATALOG NUMBER: NAV-SB2B-740-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P961951

CATALOG NUMBER: NAV-SB2B-740-U-RW

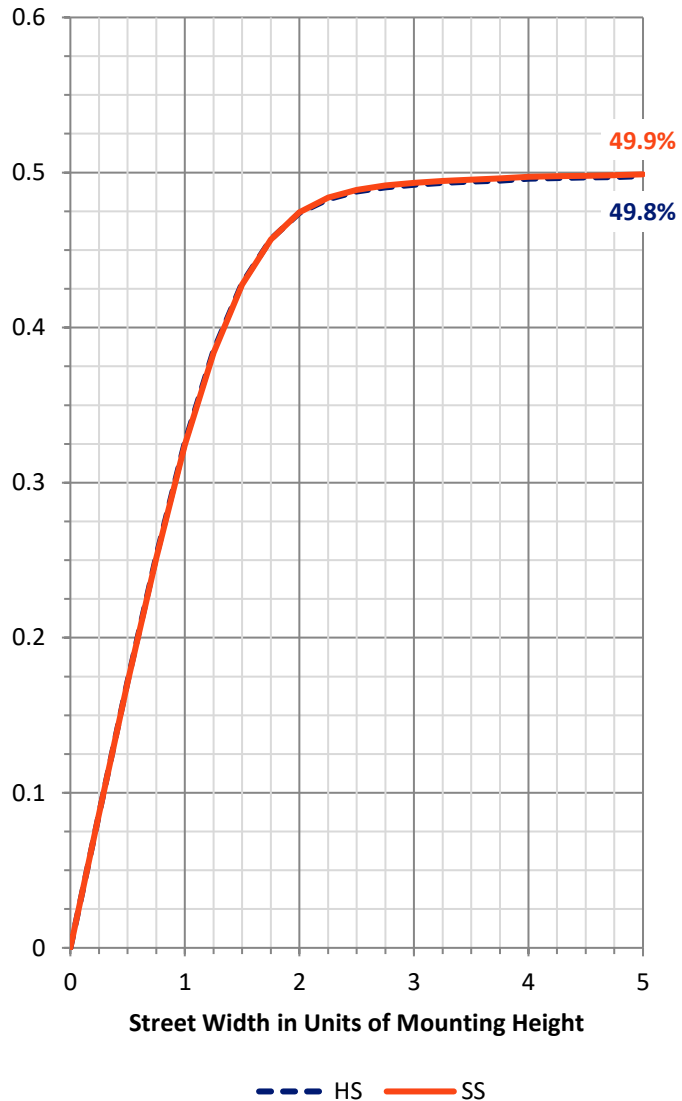
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6287.4	0.0	6287.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6287.4	0.0	6287.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12574.7	0.0	12574.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.0
10°-20°	435.2	3.5
20°-30°	840.9	6.7
30°-40°	1419.9	11.3
40°-50°	2251.9	17.9
50°-60°	3015.0	24.0
60°-70°	2869.3	22.8
70°-80°	1497.3	11.9
80°-90°	113.3	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°	12574.7	100.0
0°-180°	12574.7	100.0

Coefficient of Utilization



REPORT NUMBER: P961951

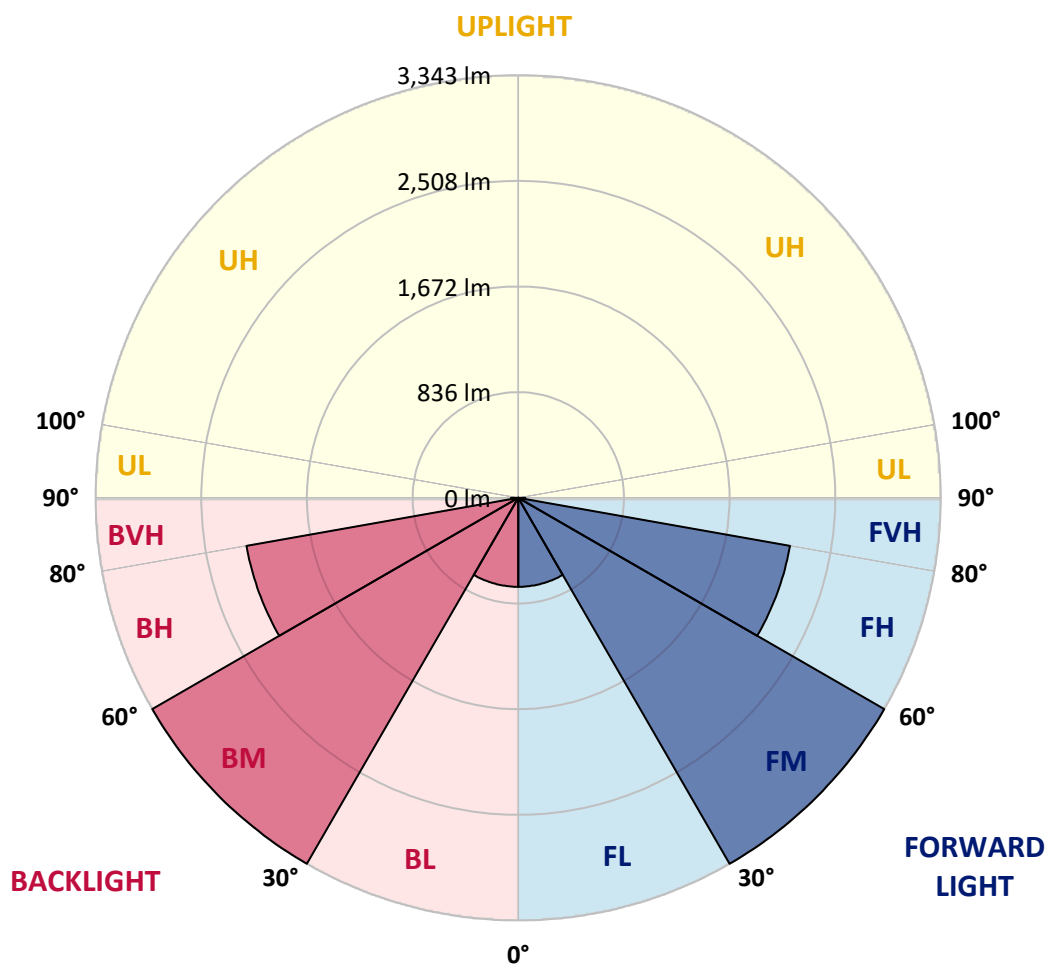
CATALOG NUMBER: NAV-SB2B-740-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	704.0	5.6			
FM	(30°-60°)	3343.4	26.6			
FH	(60°-80°)	2183.3	17.4			G2/5000
FVH	(80°-90°)	56.7	0.5			G1/100
BL	(0°-30°)	704.0	5.6	B2/1000		
BM	(30°-60°)	3343.4	26.6	B3/5000		
BH	(60°-80°)	2183.3	17.4	B3/2500		G3/2500
BVH	(80°-90°)	56.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P961951

CATALOG NUMBER: NAV-SB2B-740-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0	1347.0
2.5°	1347.0	1345.7	1347.0	1348.3	1347.6	1347.6	1350.8	1352.8	1356.6	1356.0	1355.4
5°	1338.0	1337.3	1342.4	1348.3	1352.8	1360.5	1370.1	1377.2	1386.1	1388.1	1388.1
7.5°	1333.5	1331.6	1340.6	1350.8	1365.0	1384.3	1402.8	1422.1	1437.5	1442.7	1443.9
10°	1336.7	1337.3	1349.5	1368.8	1391.2	1418.2	1444.5	1477.3	1499.2	1504.3	1509.4
12.5°	1351.5	1350.2	1370.7	1401.6	1432.3	1466.4	1497.2	1533.2	1556.9	1569.1	1574.3
15°	1378.4	1375.9	1404.8	1450.4	1495.3	1535.0	1560.2	1594.2	1621.8	1637.1	1643.0
17.5°	1410.5	1411.8	1449.7	1508.8	1567.8	1612.7	1636.5	1653.8	1675.1	1688.6	1694.9
20°	1467.1	1469.6	1512.0	1582.0	1649.3	1700.8	1720.0	1713.6	1719.3	1729.6	1737.4
22.5°	1542.8	1544.1	1591.6	1667.4	1738.0	1794.5	1807.3	1780.9	1764.9	1772.0	1777.1
25°	1630.8	1639.1	1686.6	1764.3	1836.8	1890.8	1896.6	1856.8	1816.9	1818.9	1822.0
27.5°	1738.0	1745.7	1793.9	1870.8	1944.7	1991.6	1991.0	1937.7	1879.2	1864.5	1869.0
30°	1854.2	1862.5	1911.9	1991.6	2060.2	2101.4	2092.3	2028.8	1945.3	1917.8	1921.0
32.5°	1992.2	1997.3	2047.4	2127.1	2190.6	2223.3	2204.8	2126.4	2022.4	1991.0	1998.6
35°	2159.2	2166.8	2204.1	2279.2	2335.1	2362.0	2330.5	2238.1	2121.2	2086.0	2091.1
37.5°	2349.8	2344.7	2387.0	2453.8	2500.1	2516.8	2473.7	2364.0	2234.3	2192.6	2200.3
40°	2548.9	2546.3	2592.5	2656.7	2681.7	2692.1	2628.5	2508.4	2364.6	2319.7	2334.4
42.5°	2729.3	2727.3	2789.6	2860.9	2891.0	2879.5	2799.3	2661.8	2515.5	2464.1	2476.9
45°	2873.7	2871.1	2947.6	3047.7	3106.8	3087.5	2979.7	2831.4	2668.3	2615.0	2627.2
47.5°	2984.8	2986.0	3068.2	3192.2	3295.6	3302.6	3163.9	3004.1	2836.5	2776.1	2794.1
50°	3065.1	3068.8	3156.9	3294.2	3435.5	3497.8	3352.1	3181.3	3010.4	2942.4	2963.0
52.5°	3084.9	3092.0	3197.9	3359.1	3525.4	3644.2	3543.3	3351.3	3175.4	3110.7	3127.3
55°	2979.1	2993.1	3127.3	3354.0	3580.6	3740.4	3711.5	3524.1	3341.8	3275.0	3293.6
57.5°	2735.7	2755.6	2912.2	3208.2	3568.4	3806.5	3841.9	3689.7	3508.1	3443.8	3458.7
60°	2394.8	2418.5	2568.8	2891.7	3396.3	3830.9	3933.7	3850.9	3660.9	3598.6	3612.1
62.5°	1880.5	1911.3	2091.1	2469.8	3033.0	3717.4	4012.1	3996.6	3798.2	3720.5	3729.6
65°	1206.3	1239.1	1428.5	1876.1	2548.3	3369.4	4036.4	4138.5	3943.4	3834.8	3848.4
67.5°	727.4	742.2	835.9	1137.0	1862.5	2844.8	3829.7	4295.8	4112.8	3978.0	3988.3
70°	465.5	473.9	529.7	667.7	1052.9	2075.7	3317.3	4325.3	4318.3	4125.0	4123.8
72.5°	315.9	318.5	333.2	395.4	595.8	1179.4	2446.8	3915.7	4446.7	4314.4	4293.9
75°	231.1	245.3	269.0	279.9	338.4	589.4	1402.2	2751.1	3747.5	3805.3	3665.3
77.5°	172.1	172.7	205.4	218.3	241.4	314.0	593.3	1535.8	2326.8	2442.9	2179.0
80°	145.8	138.1	137.4	175.9	181.7	195.8	265.2	530.3	833.3	505.3	382.0
82.5°	121.4	113.0	102.1	137.4	123.9	120.0	114.9	215.8	265.2	130.4	111.1
85°	84.8	80.9	77.1	89.9	70.6	60.4	55.2	100.8	111.7	55.2	48.8
87.5°	36.6	37.9	38.5	39.8	29.5	21.2	21.2	28.3	28.3	21.8	16.1
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)