

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: P962971

Luminaire Tested: **NAV-SB2D-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962971
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-SB2D-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21098.6 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 147.6
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



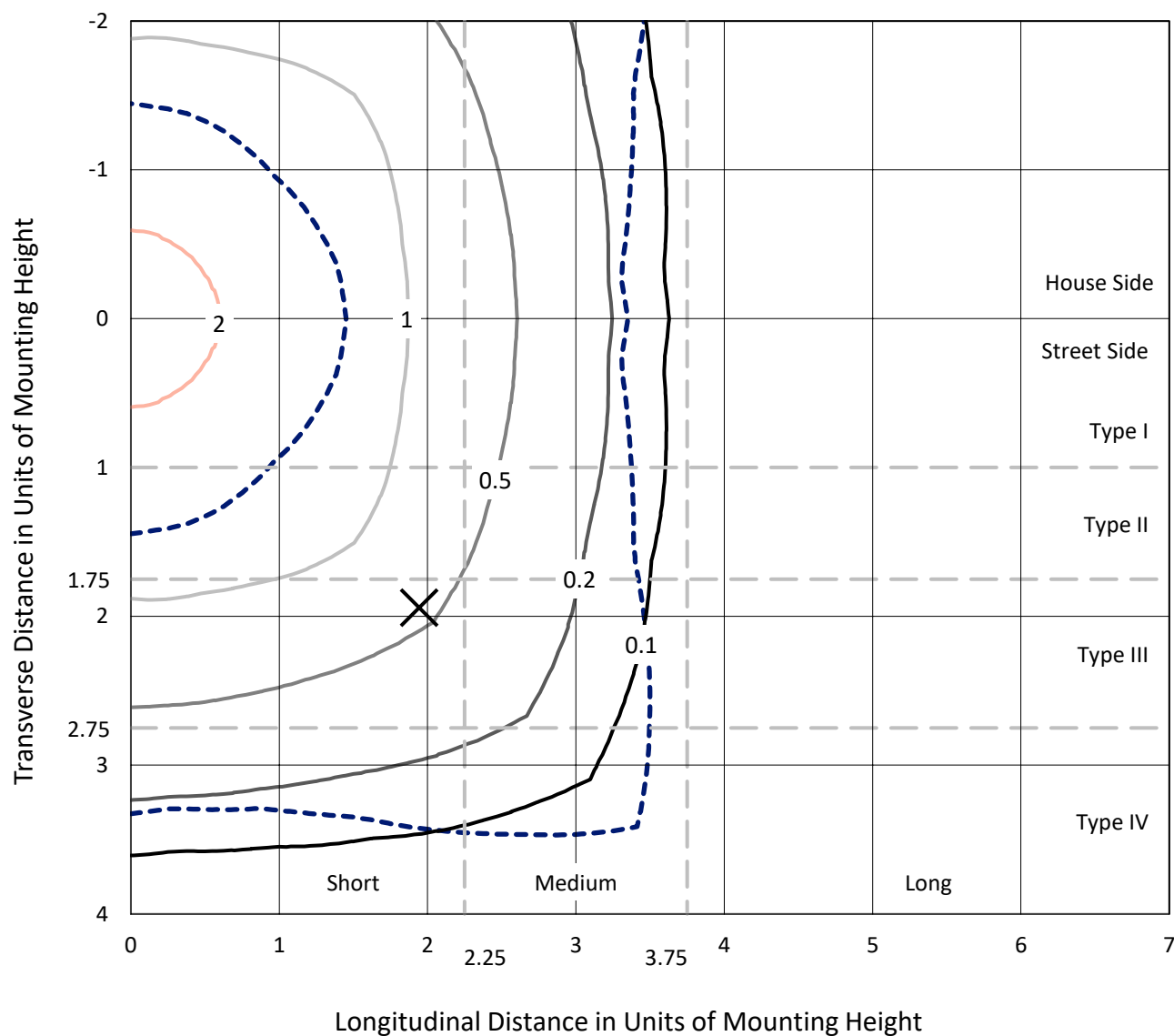
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

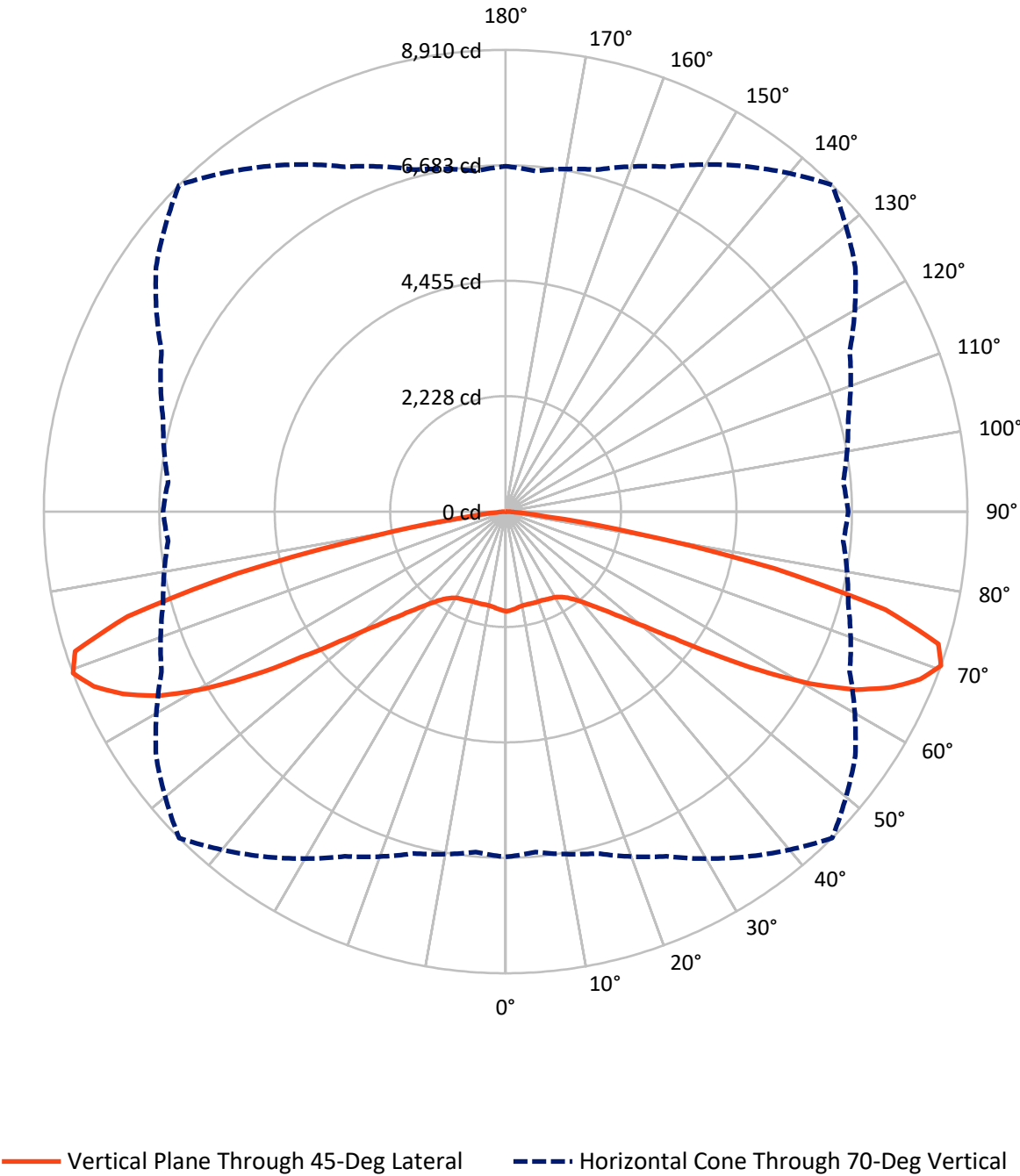


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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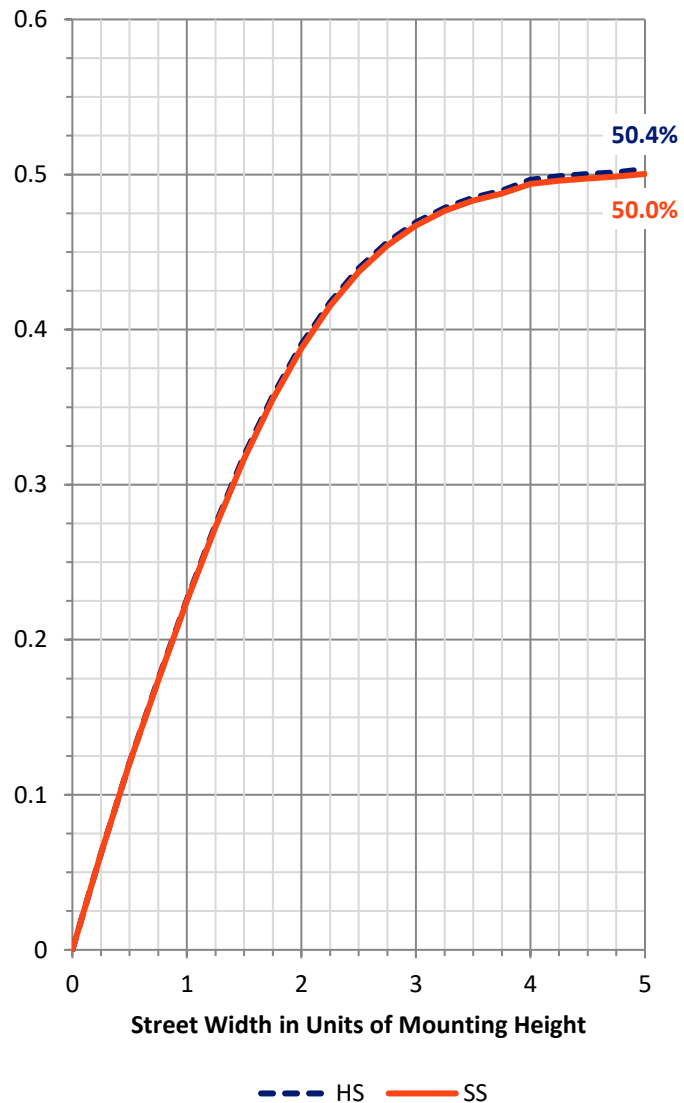
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10549.3	0.0	10549.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10549.3	0.0	10549.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	21098.6	0.0	21098.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	0.8
10°-20°	525.7	2.5
20°-30°	874.8	4.1
30°-40°	1323.0	6.3
40°-50°	2198.5	10.4
50°-60°	4148.5	19.7
60°-70°	7004.9	33.2
70°-80°	4603.0	21.8
80°-90°	241.2	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°	21098.6	100.0
0°-180°	21098.6	100.0

Coefficient of Utilization



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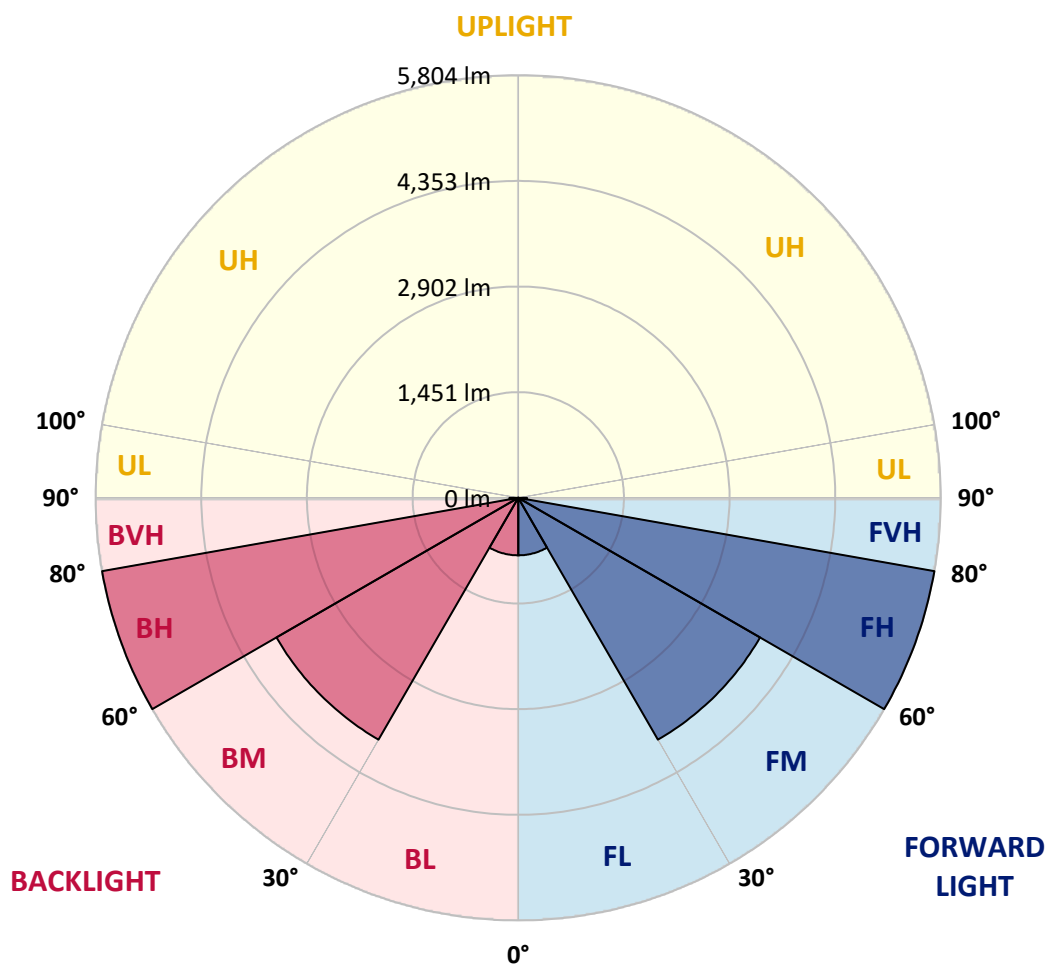
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.8	3.7			
FM	(30°-60°)	3835.0	18.2			
FH	(60°-80°)	5803.9	27.5			G3/7500
FVH	(80°-90°)	120.6	0.6			G2/225
BL	(0°-30°)	789.8	3.7	B2/1000		
BM	(30°-60°)	3835.0	18.2	B3/5000		
BH	(60°-80°)	5803.9	27.5	B5		G3/7500
BVH	(80°-90°)	120.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1912.5	1918.1	1915.8	1911.4	1911.4	1908.1	1911.4	1913.7	1917.0	1919.1	1918.1
5°	1887.3	1891.7	1890.6	1887.3	1888.5	1885.2	1887.3	1890.6	1892.8	1893.9	1893.9
7.5°	1865.4	1869.8	1867.5	1862.1	1862.1	1858.8	1860.0	1863.2	1866.5	1867.5	1867.5
10°	1860.0	1864.3	1857.7	1849.0	1845.6	1841.3	1842.3	1845.6	1852.3	1855.6	1855.6
12.5°	1862.1	1865.4	1858.8	1845.6	1842.3	1838.0	1838.0	1841.3	1850.0	1854.4	1855.6
15°	1868.7	1872.0	1862.1	1847.9	1844.6	1841.3	1840.2	1844.6	1854.4	1862.1	1863.2
17.5°	1880.8	1884.1	1868.7	1849.0	1844.6	1845.6	1844.6	1847.9	1863.2	1877.5	1877.5
20°	1891.7	1893.9	1873.1	1849.0	1844.6	1845.6	1844.6	1851.2	1870.9	1890.6	1891.7
22.5°	1895.0	1897.2	1877.5	1856.6	1853.3	1854.4	1853.3	1860.0	1878.5	1898.3	1898.3
25°	1896.1	1899.4	1884.1	1867.5	1873.1	1875.2	1873.1	1874.2	1888.5	1906.0	1904.9
27.5°	1912.5	1917.0	1902.7	1888.5	1891.7	1890.6	1893.9	1897.2	1908.1	1925.7	1921.4
30°	1946.6	1949.9	1937.8	1923.5	1921.4	1913.7	1923.5	1934.5	1946.6	1962.0	1958.6
32.5°	2002.4	2009.1	1993.7	1978.4	1968.5	1964.1	1971.8	1990.4	2006.8	2023.4	2016.7
35°	2095.7	2100.1	2085.9	2057.3	2039.7	2039.7	2046.3	2070.5	2096.7	2117.6	2110.0
37.5°	2227.3	2232.8	2207.5	2173.5	2147.3	2147.3	2156.0	2181.2	2220.7	2250.3	2239.3
40°	2387.4	2395.1	2363.2	2328.2	2303.0	2298.6	2309.5	2338.0	2375.3	2412.6	2400.5
42.5°	2580.4	2589.1	2547.5	2516.8	2497.1	2497.1	2502.5	2528.9	2562.9	2608.9	2605.7
45°	2827.2	2842.5	2785.4	2754.8	2736.1	2740.5	2743.8	2766.9	2797.5	2850.2	2848.0
47.5°	3121.0	3136.4	3076.1	3044.2	3041.0	3061.9	3048.7	3065.2	3081.6	3141.9	3124.3
50°	3454.5	3480.8	3439.1	3436.9	3443.5	3481.8	3451.2	3459.9	3441.2	3479.7	3456.6
52.5°	3862.4	3900.7	3893.1	3906.3	3979.8	4058.7	3988.5	3957.8	3887.6	3899.7	3859.1
55°	4357.0	4415.1	4426.1	4505.1	4671.7	4833.0	4683.7	4559.8	4410.7	4383.3	4340.6
57.5°	4919.6	4965.6	5018.3	5179.4	5490.9	5777.1	5490.9	5216.7	4982.1	4926.2	4886.7
60°	5525.0	5581.9	5632.4	5870.4	6333.2	6735.6	6324.4	5889.0	5578.7	5503.0	5437.2
62.5°	6175.2	6248.7	6283.8	6548.1	7087.7	7568.0	7095.4	6567.8	6223.5	6142.3	6076.5
65°	6799.2	6859.5	6899.0	7180.8	7696.3	8177.7	7731.4	7211.6	6857.4	6751.0	6698.4
67.5°	7089.8	7122.7	7219.3	7538.4	8082.3	8631.7	8174.4	7572.4	7176.4	6990.0	6992.2
70°	6664.3	6597.4	6829.9	7340.9	8128.4	8910.2	8233.6	7325.6	6840.8	6538.2	6610.6
72.5°	5149.9	5034.7	5438.2	6312.3	7601.9	8732.6	7654.6	6361.7	5689.4	5075.3	5227.7
75°	2801.9	2671.5	3228.5	4333.9	6062.3	7569.1	6201.6	4457.8	3594.8	2781.1	2962.0
77.5°	790.7	741.4	1190.9	2096.7	3646.3	5314.3	3786.8	2142.9	1412.4	837.8	931.0
80°	242.3	234.7	318.1	631.7	1548.5	2545.3	1488.2	639.4	404.7	255.5	269.8
82.5°	143.7	131.6	158.0	230.3	394.8	799.5	383.9	240.2	193.0	129.4	140.3
85°	82.2	76.8	93.2	111.8	132.7	169.9	110.8	114.1	103.1	69.1	72.4
87.5°	34.0	30.7	36.2	35.1	30.7	39.5	29.6	35.1	41.7	27.4	25.2
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)