

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: P962602

Luminaire Tested: **NAV-SB2C-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962602
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-SB2C-830-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14204.4 lumens
Efficiency: N/A
Efficacy: 140.8 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): 100.9
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

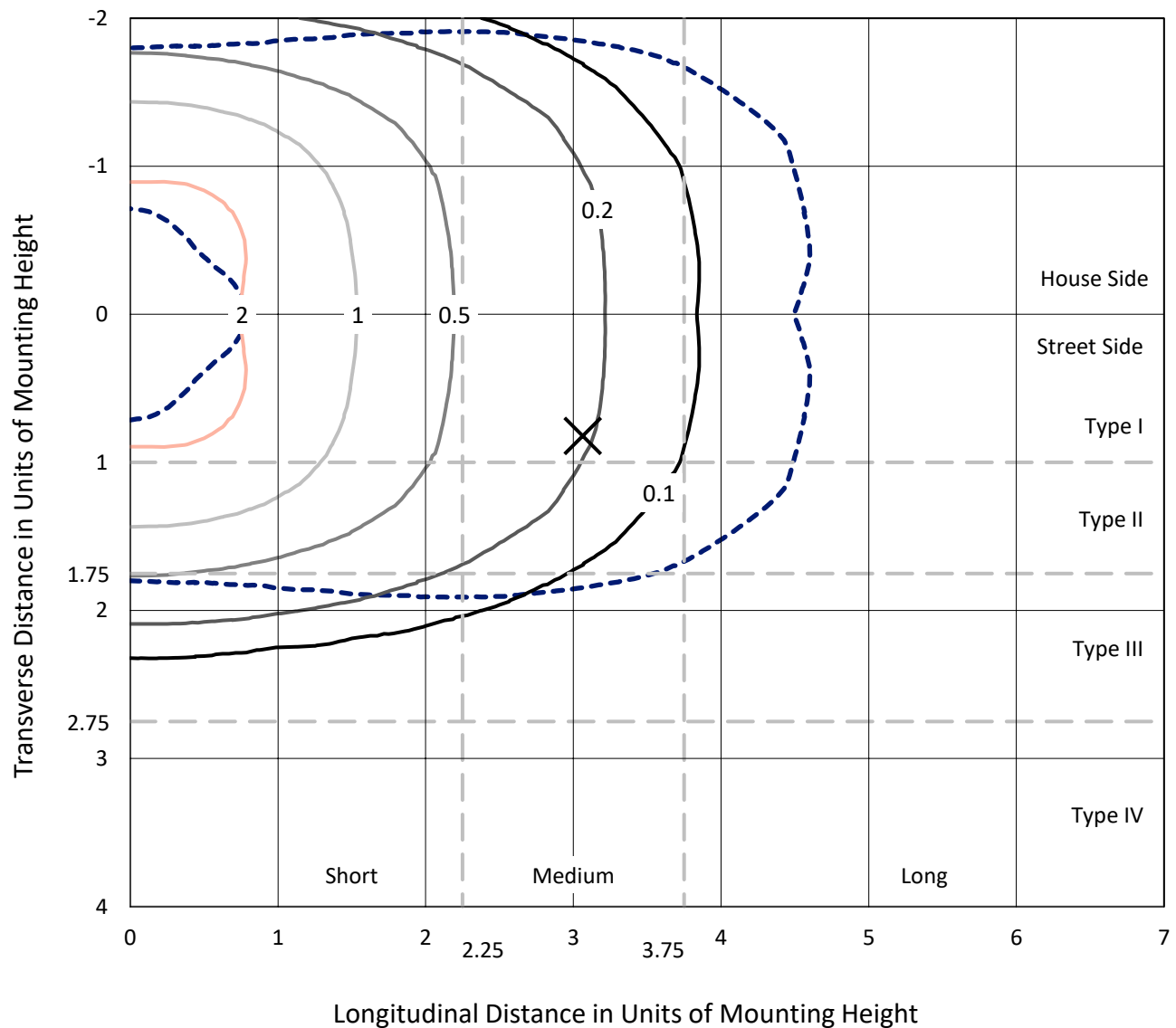


REPORT NUMBER: P962602

CATALOG NUMBER: NAV-SB2C-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

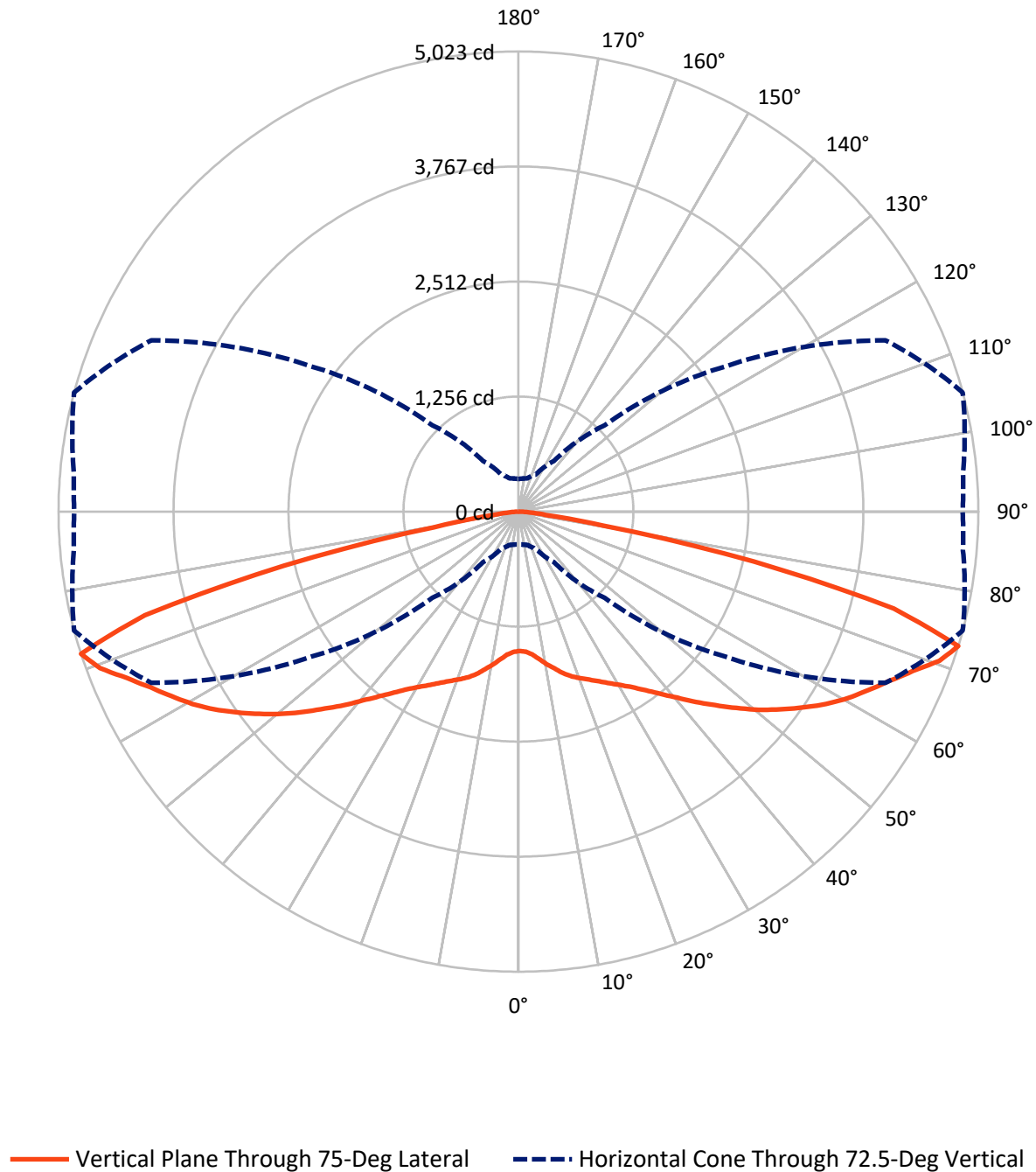
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Medium - N/A

REPORT NUMBER: P962602
CATALOG NUMBER: NAV-SB2C-830-U-RW

Luminous Intensity Polar Plot



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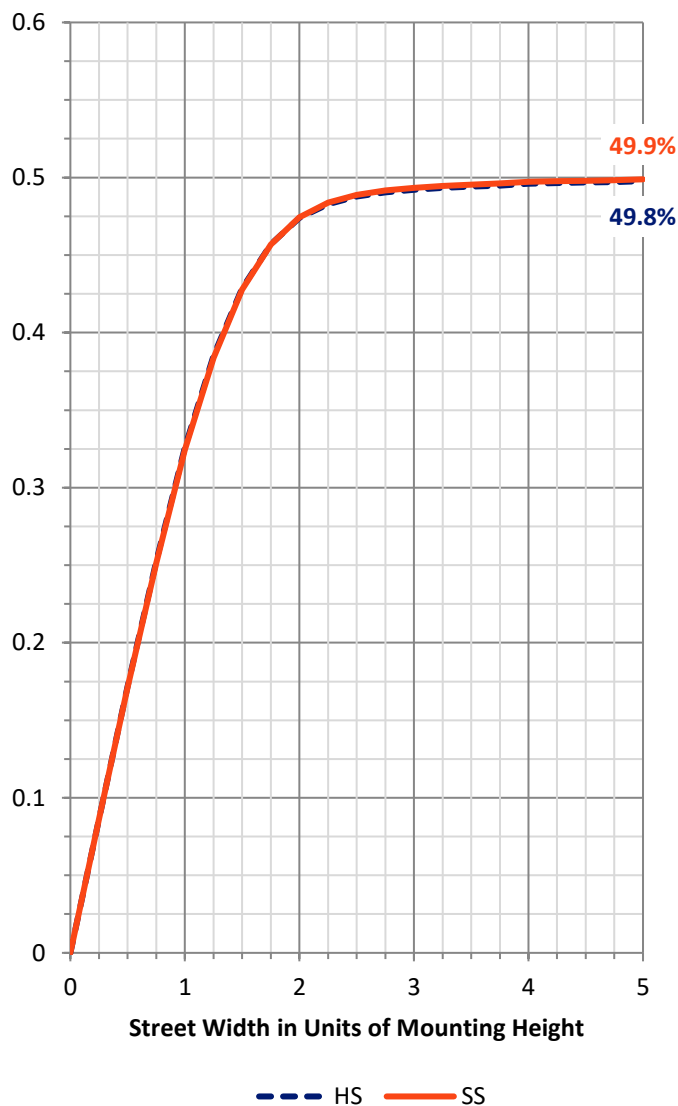
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7102.2	0.0	7102.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7102.2	0.0	7102.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	14204.4	0.0	14204.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.0
10°-20°	491.6	3.5
20°-30°	949.9	6.7
30°-40°	1604.0	11.3
40°-50°	2543.7	17.9
50°-60°	3405.7	24.0
60°-70°	3241.2	22.8
70°-80°	1691.3	11.9
80°-90°	128.0	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°	14204.4	100.0
0°-180°	14204.4	100.0

Coefficient of Utilization



REPORT NUMBER: P962602

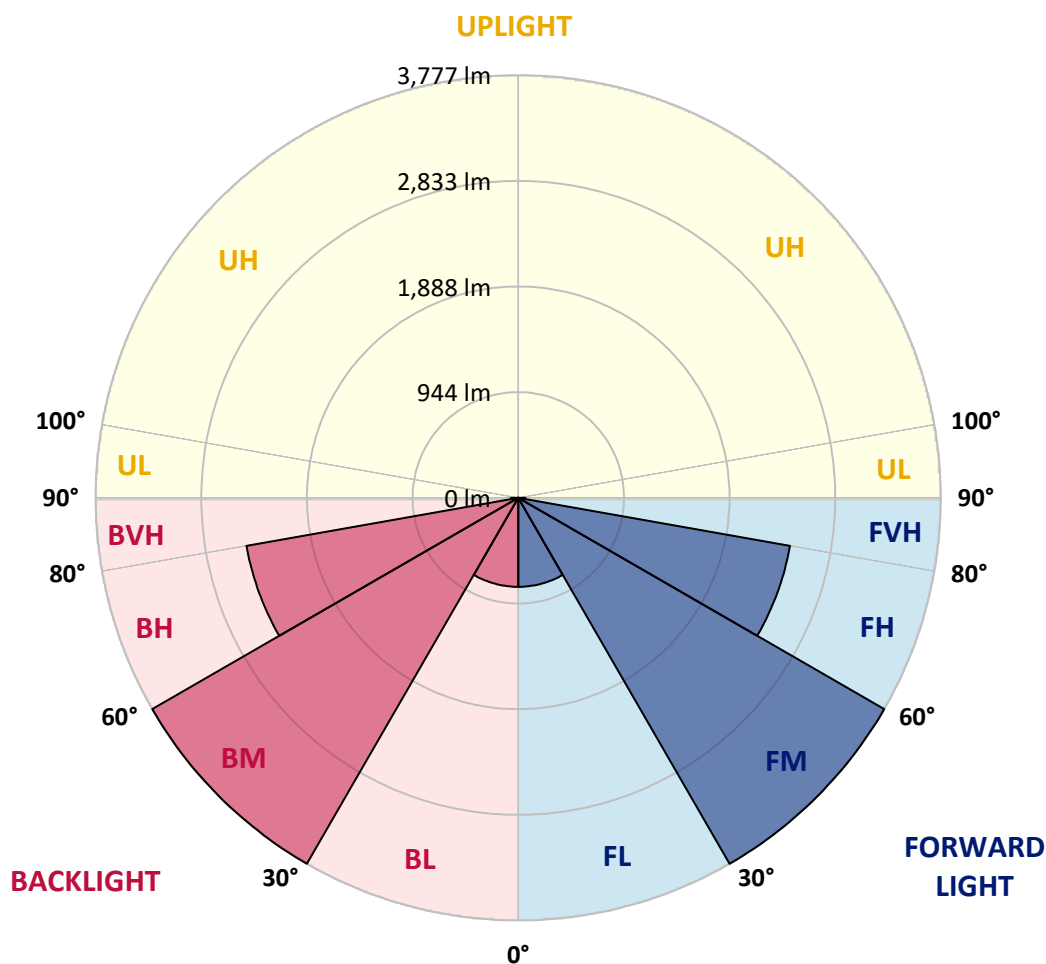
CATALOG NUMBER: NAV-SB2C-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.3	5.6			
FM	(30°-60°)	3776.7	26.6			
FH	(60°-80°)	2466.2	17.4			G2/5000
FVH	(80°-90°)	64.0	0.5			G1/100
BL	(0°-30°)	795.3	5.6	B2/1000		
BM	(30°-60°)	3776.7	26.6	B3/5000		
BH	(60°-80°)	2466.2	17.4	B3/2500		G3/2500
BVH	(80°-90°)	64.0	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: P962602

CATALOG NUMBER: NAV-SB2C-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1521.5	1521.5	1521.5	1521.5	1521.5	1521.5	1521.5	1521.5	1521.5	1521.5	1521.5
2.5°	1521.5	1520.1	1521.5	1523.0	1522.2	1522.2	1525.9	1528.1	1532.5	1531.7	1530.9
5°	1511.4	1510.6	1516.5	1523.0	1528.1	1536.8	1547.6	1555.6	1565.8	1567.9	1567.9
7.5°	1506.3	1504.2	1514.3	1525.9	1541.9	1563.6	1584.6	1606.4	1623.8	1629.6	1631.1
10°	1509.9	1510.6	1524.5	1546.2	1571.6	1602.1	1631.8	1668.8	1693.4	1699.2	1705.1
12.5°	1526.6	1525.2	1548.4	1583.2	1618.0	1656.4	1691.2	1731.8	1758.7	1772.5	1778.3
15°	1557.1	1554.2	1586.8	1638.4	1689.1	1734.1	1762.3	1800.7	1832.0	1849.4	1855.9
17.5°	1593.4	1594.8	1637.5	1704.3	1771.0	1821.8	1848.6	1868.2	1892.2	1907.4	1914.6
20°	1657.2	1660.1	1708.0	1787.0	1863.1	1921.2	1942.9	1935.7	1942.2	1953.8	1962.5
22.5°	1742.7	1744.2	1797.8	1883.4	1963.2	2027.0	2041.6	2011.8	1993.7	2001.6	2007.5
25°	1842.1	1851.6	1905.2	1992.9	2074.9	2135.8	2142.4	2097.4	2052.5	2054.6	2058.2
27.5°	1963.2	1971.9	2026.3	2113.3	2196.8	2249.7	2249.0	2188.8	2122.8	2106.1	2111.2
30°	2094.5	2103.9	2159.8	2249.7	2327.3	2373.7	2363.5	2291.8	2197.5	2166.3	2169.9
32.5°	2250.4	2256.2	2312.8	2402.7	2474.6	2511.5	2490.4	2402.0	2284.5	2249.0	2257.7
35°	2439.0	2447.7	2489.7	2574.6	2637.7	2668.2	2632.6	2528.2	2396.1	2356.3	2362.1
37.5°	2654.3	2648.6	2696.5	2771.9	2824.1	2842.9	2794.4	2670.3	2523.9	2476.7	2485.4
40°	2879.2	2876.3	2928.5	3001.0	3029.3	3041.0	2969.1	2833.5	2671.0	2620.3	2637.0
42.5°	3083.0	3080.8	3151.2	3231.6	3265.8	3252.7	3162.0	3006.8	2841.5	2783.5	2797.9
45°	3246.2	3243.3	3329.6	3442.7	3509.4	3487.7	3365.8	3198.3	3014.1	2953.9	2967.7
47.5°	3371.6	3373.1	3465.9	3605.8	3722.7	3730.6	3574.0	3393.4	3204.1	3135.9	3156.3
50°	3462.2	3466.7	3566.0	3721.2	3880.8	3951.1	3786.5	3593.5	3400.6	3323.8	3346.9
52.5°	3484.8	3492.8	3612.4	3794.4	3982.3	4116.5	4002.6	3785.7	3587.0	3513.8	3532.7
55°	3365.1	3381.1	3532.7	3788.6	4044.6	4225.3	4192.6	3980.8	3774.9	3699.4	3720.4
57.5°	3090.3	3112.7	3289.6	3624.0	4030.9	4300.0	4339.8	4168.0	3962.8	3890.2	3906.9
60°	2705.2	2731.9	2901.7	3266.5	3836.5	4327.5	4443.6	4350.0	4135.4	4064.9	4080.2
62.5°	2124.2	2159.1	2362.1	2789.9	3426.1	4199.1	4532.0	4514.6	4290.5	4202.8	4213.0
65°	1362.7	1399.7	1613.7	2119.2	2878.5	3806.0	4559.6	4674.9	4454.4	4331.9	4347.1
67.5°	821.7	838.3	944.2	1284.4	2103.9	3213.6	4326.0	4852.6	4645.9	4493.6	4505.2
70°	525.8	535.3	598.3	754.3	1189.4	2344.7	3747.3	4886.0	4878.0	4659.6	4658.2
72.5°	356.8	359.7	376.4	446.8	673.0	1332.3	2763.9	4423.2	5023.0	4873.6	4850.4
75°	261.1	277.1	303.9	316.2	382.2	665.7	1583.9	3107.7	4233.2	4298.4	4140.4
77.5°	194.3	195.1	232.1	246.6	272.6	354.6	670.1	1734.8	2628.3	2759.5	2461.4
80°	164.6	155.9	155.2	198.7	205.2	221.2	299.5	599.0	941.4	570.7	431.5
82.5°	137.0	127.6	115.3	155.2	140.0	135.6	129.9	243.6	299.5	147.2	125.5
85°	95.7	91.4	87.0	101.6	79.7	68.2	62.3	113.9	126.2	62.3	55.1
87.5°	41.3	42.7	43.6	45.0	33.3	23.9	23.9	31.9	31.9	24.7	18.1
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)