

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: P961517

Luminaire Tested: **NAV-SB2A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961517
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-SB2A-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

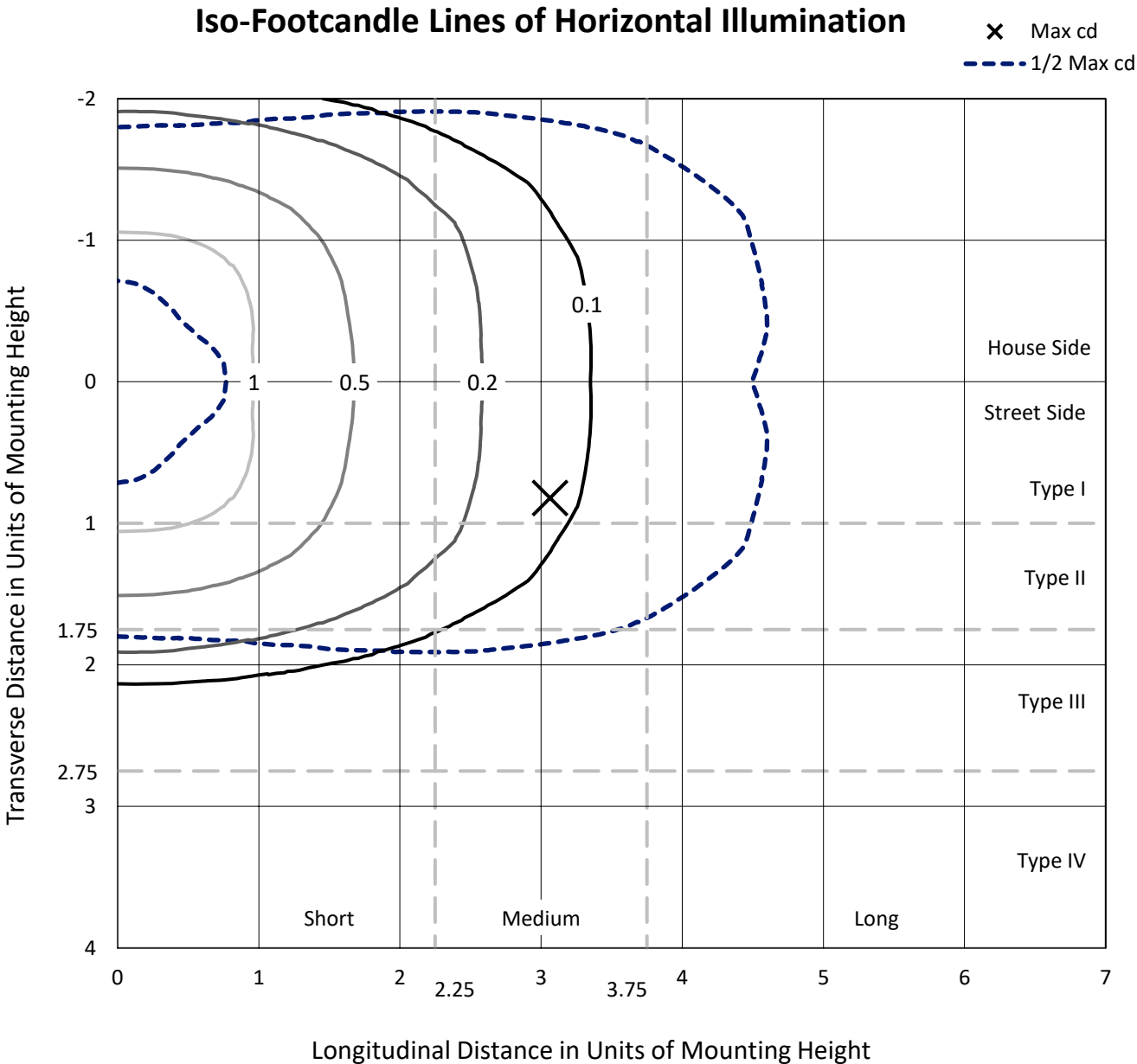
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8233.8 lumens
Efficiency: N/A
Efficacy: 143.7 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): 57.3
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



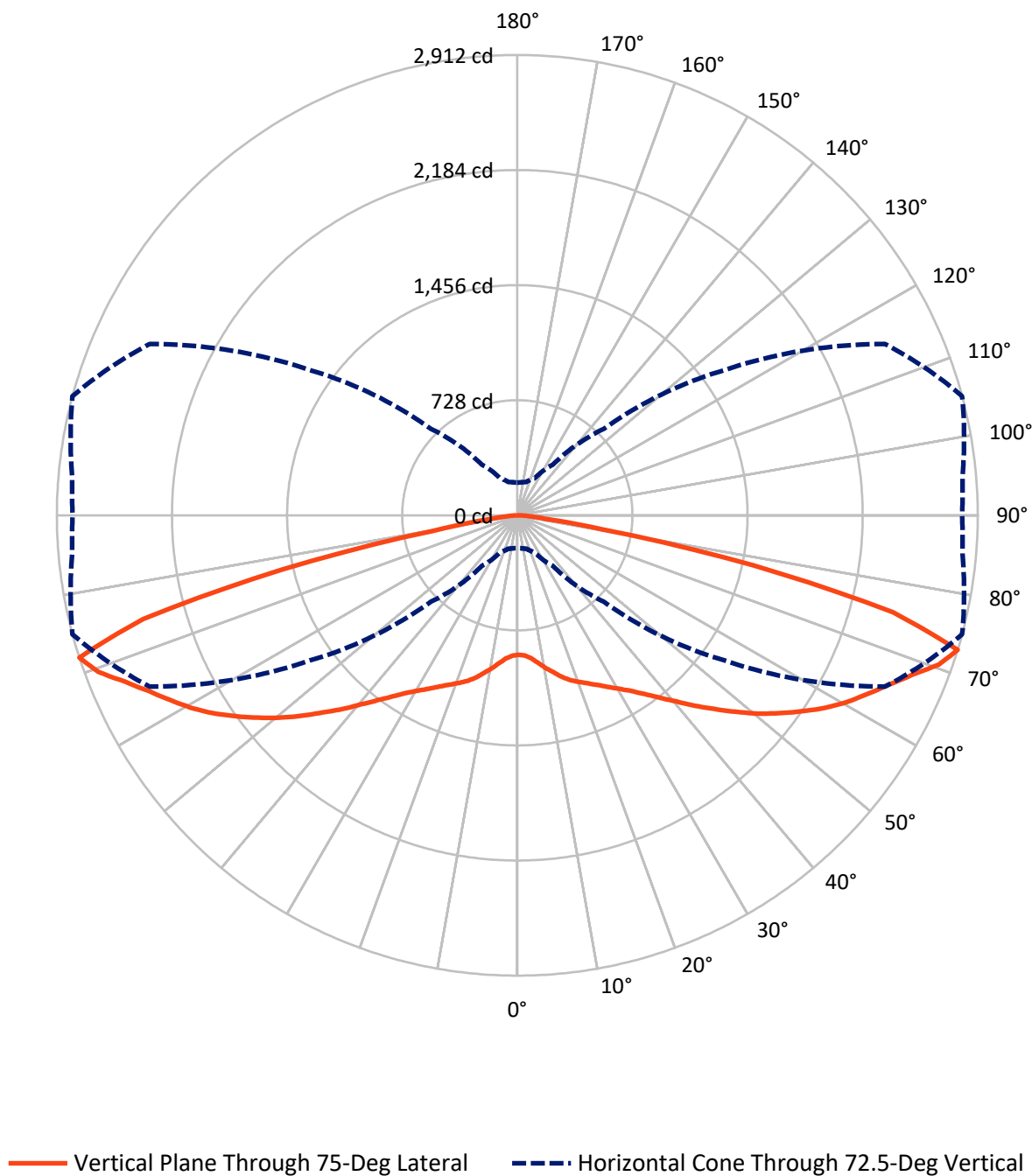
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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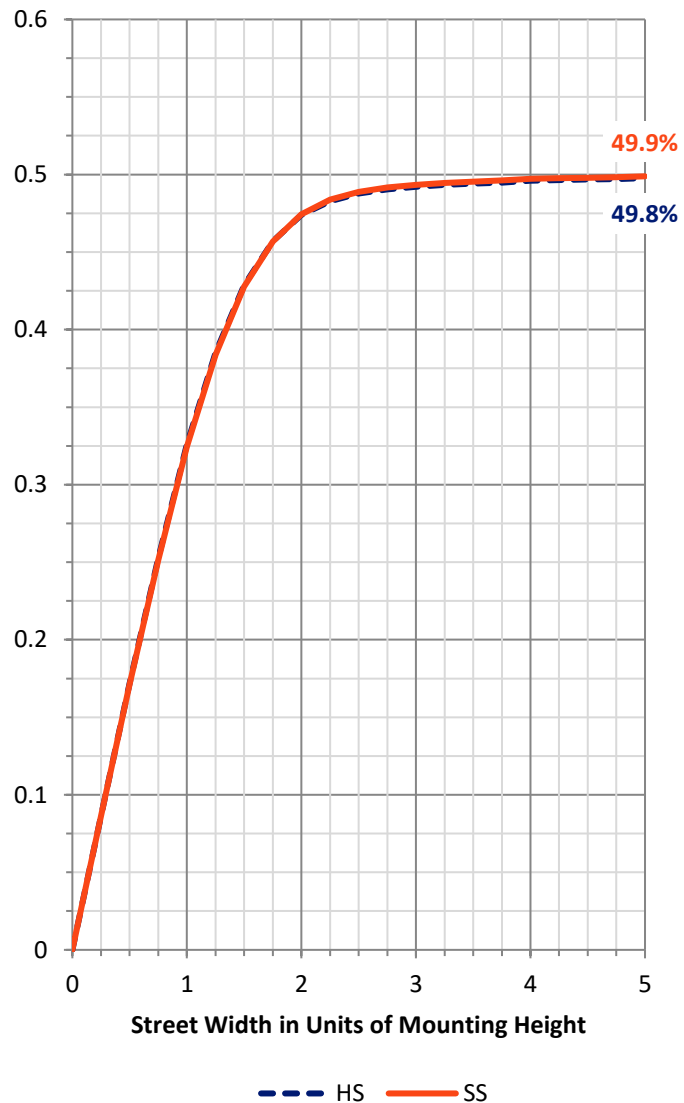
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4116.9	0.0	4116.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4116.9	0.0	4116.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	8233.8	0.0	8233.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.0
10°-20°	285.0	3.5
20°-30°	550.6	6.7
30°-40°	929.8	11.3
40°-50°	1474.5	17.9
50°-60°	1974.2	24.0
60°-70°	1878.8	22.8
70°-80°	980.4	11.9
80°-90°	74.2	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°	8233.8	100.0
0°-180°	8233.8	100.0

Coefficient of Utilization



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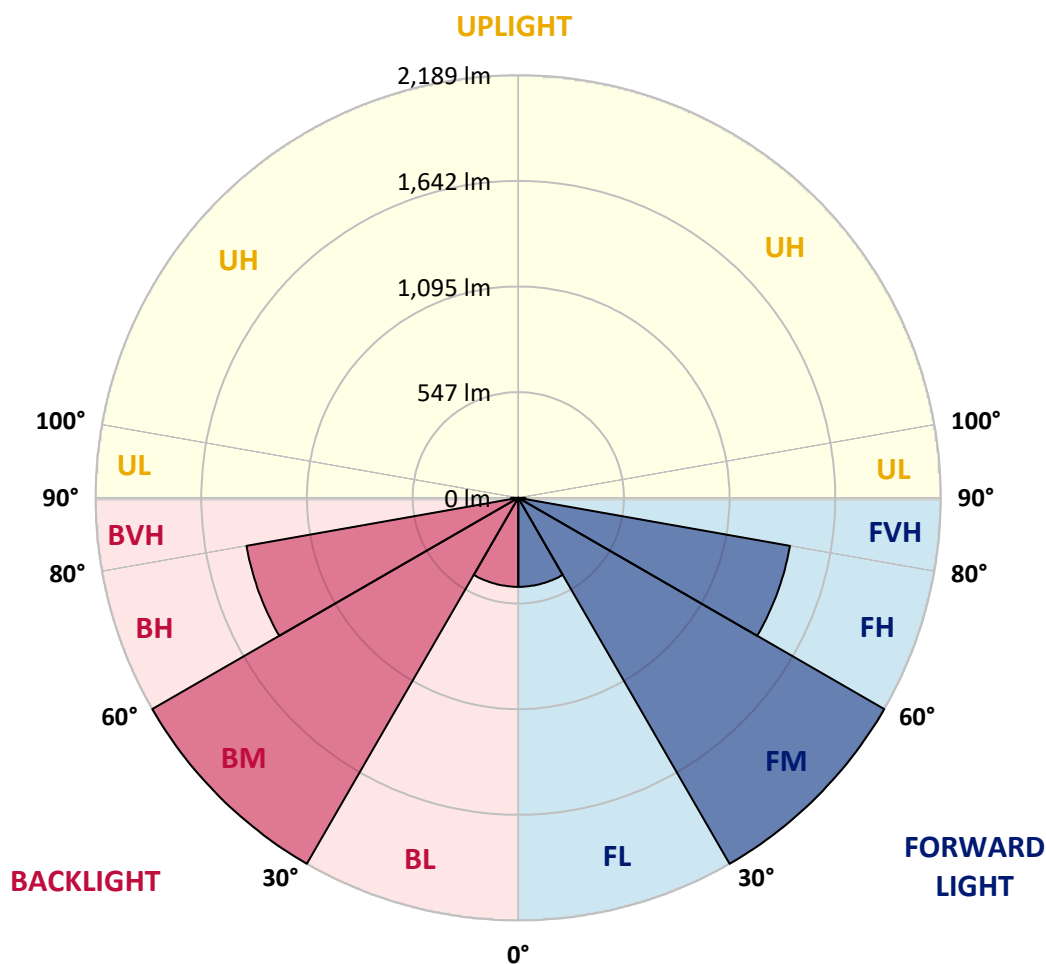
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.0	5.6			
FM	(30°-60°)	2189.2	26.6			
FH	(60°-80°)	1429.6	17.4			G1/1800
FVH	(80°-90°)	37.1	0.5			G1/100
BL	(0°-30°)	461.0	5.6	B1/500		
BM	(30°-60°)	2189.2	26.6	B2/2500		
BH	(60°-80°)	1429.6	17.4	B3/2500		G3/2500
BVH	(80°-90°)	37.1	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0	882.0
2.5°	882.0	881.2	882.0	882.8	882.4	882.4	884.5	885.8	888.3	887.9	887.4
5°	876.1	875.7	879.0	882.8	885.8	890.8	897.1	901.8	907.6	908.9	908.9
7.5°	873.2	871.9	877.8	884.5	893.8	906.4	918.6	931.2	941.3	944.6	945.5
10°	875.2	875.7	883.7	896.3	911.0	928.6	945.9	967.3	981.6	985.0	988.3
12.5°	884.9	884.1	897.6	917.7	937.9	960.2	980.4	1003.9	1019.5	1027.5	1030.8
15°	902.6	900.9	919.8	949.7	979.1	1005.1	1021.5	1043.9	1061.9	1072.0	1075.8
17.5°	923.6	924.4	949.3	987.9	1026.6	1056.1	1071.6	1082.9	1096.9	1105.7	1109.9
20°	960.6	962.3	990.0	1035.9	1080.0	1113.7	1126.3	1122.1	1125.9	1132.5	1137.5
22.5°	1010.2	1011.1	1042.1	1091.7	1138.1	1175.0	1183.4	1166.1	1155.7	1160.3	1163.7
25°	1067.8	1073.3	1104.3	1155.3	1202.7	1238.1	1241.9	1215.8	1189.7	1190.9	1193.1
27.5°	1138.1	1143.1	1174.5	1225.1	1273.4	1304.1	1303.7	1268.7	1230.5	1220.9	1223.7
30°	1214.1	1219.5	1251.9	1304.1	1349.0	1376.0	1370.1	1328.4	1273.8	1255.7	1257.8
32.5°	1304.5	1307.9	1340.6	1392.8	1434.4	1455.8	1443.6	1392.4	1324.2	1303.7	1308.7
35°	1413.8	1418.8	1443.2	1492.4	1529.0	1546.6	1526.0	1465.5	1389.0	1365.9	1369.2
37.5°	1538.6	1535.2	1563.0	1606.8	1637.0	1648.0	1619.8	1547.9	1463.0	1435.6	1440.7
40°	1669.0	1667.3	1697.6	1739.6	1756.0	1762.7	1721.1	1642.5	1548.4	1518.8	1528.6
42.5°	1787.1	1785.9	1826.7	1873.3	1893.1	1885.5	1832.9	1742.9	1647.1	1613.5	1621.9
45°	1881.7	1880.1	1930.1	1995.6	2034.3	2021.7	1951.1	1853.9	1747.2	1712.3	1720.3
47.5°	1954.5	1955.3	2009.1	2090.2	2157.9	2162.5	2071.7	1967.1	1857.3	1817.8	1829.5
50°	2007.0	2009.5	2067.1	2157.0	2249.6	2290.4	2194.9	2083.1	1971.3	1926.7	1940.1
52.5°	2020.0	2024.6	2094.0	2199.5	2308.4	2386.2	2320.2	2194.4	2079.3	2036.8	2047.7
55°	1950.7	1959.9	2047.7	2196.2	2344.6	2449.2	2430.3	2307.6	2188.2	2144.4	2156.6
57.5°	1791.3	1804.3	1906.9	2100.7	2336.6	2492.5	2515.7	2416.0	2297.0	2255.0	2264.6
60°	1568.0	1583.6	1682.0	1893.5	2223.9	2508.5	2575.7	2521.5	2397.1	2356.3	2365.2
62.5°	1231.3	1251.5	1369.2	1617.2	1985.9	2434.1	2627.1	2616.9	2487.1	2436.2	2442.1
65°	790.0	811.4	935.4	1228.4	1668.6	2206.2	2643.1	2709.9	2582.1	2511.0	2519.9
67.5°	476.3	486.0	547.3	744.6	1219.5	1862.7	2507.7	2812.9	2693.1	2604.7	2611.5
70°	304.8	310.3	346.9	437.2	689.4	1359.1	2172.2	2832.2	2827.6	2701.1	2700.2
72.5°	206.8	208.5	218.2	258.9	390.1	772.2	1602.2	2564.0	2911.6	2825.1	2811.6
75°	151.4	160.6	176.1	183.3	221.5	385.9	918.2	1801.4	2453.8	2491.7	2400.0
77.5°	112.6	113.1	134.5	142.9	158.1	205.6	388.5	1005.6	1523.6	1599.6	1426.8
80°	95.4	90.4	90.0	115.2	119.0	128.2	173.6	347.3	545.7	330.9	250.1
82.5°	79.4	74.0	66.8	90.0	81.2	78.6	75.2	141.2	173.6	85.4	72.8
85°	55.5	53.0	50.4	58.8	46.2	39.6	36.2	66.0	73.2	36.2	32.0
87.5°	24.0	24.8	25.2	26.0	19.4	13.8	13.8	18.4	18.4	14.2	10.6
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)