

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: P962044

Luminaire Tested: **NAV-SB2B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962044
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-827-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10336.1 lumens
Efficiency: N/A
Efficacy: 139.9 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



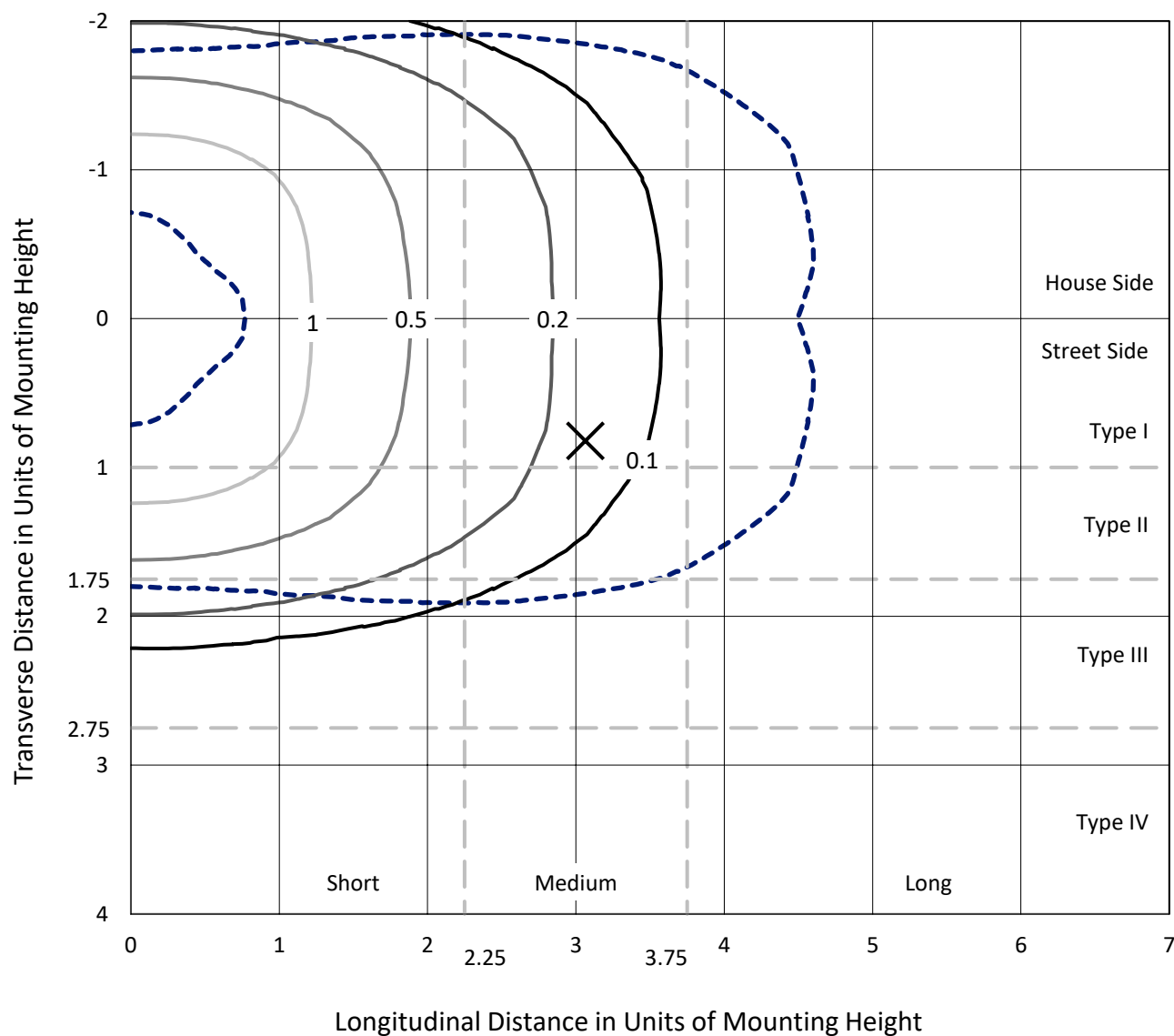
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

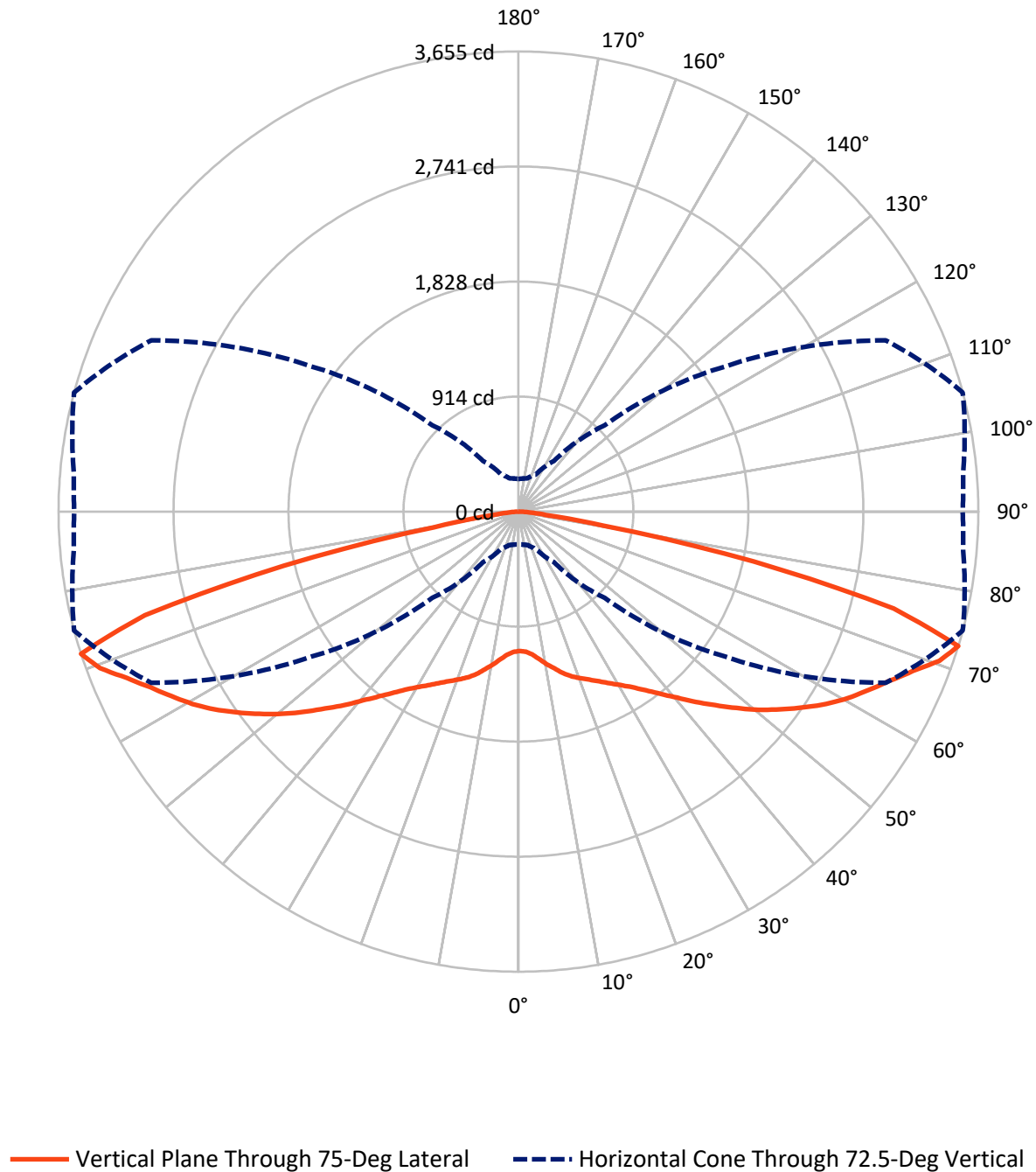
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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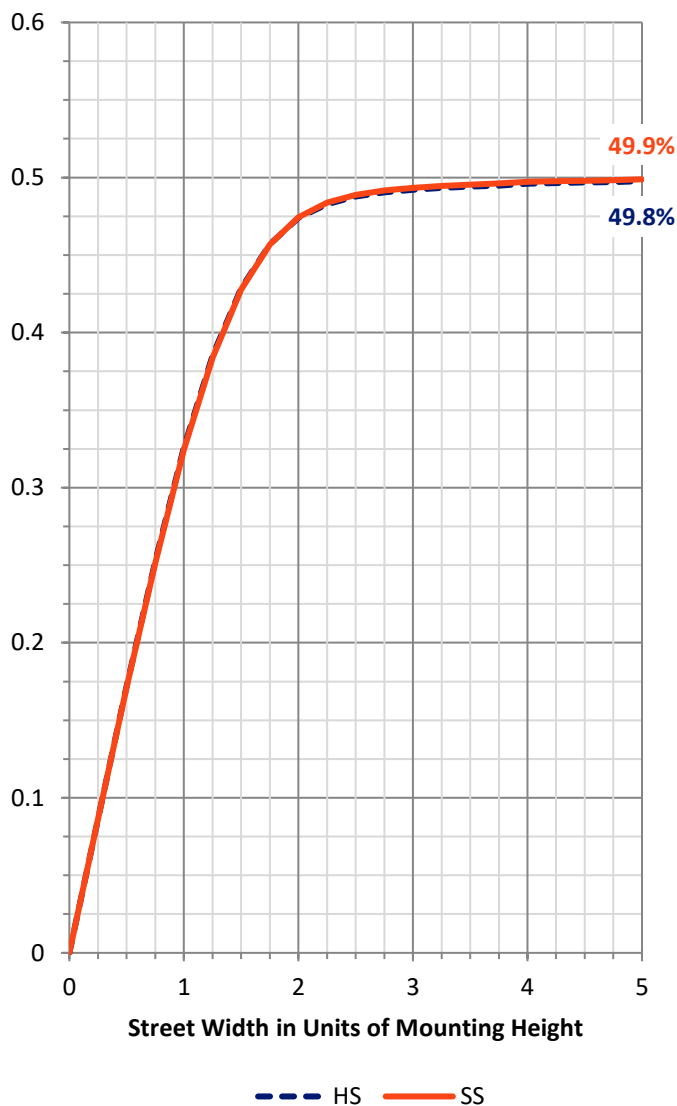
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5168.0	0.0	5168.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5168.0	0.0	5168.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10336.1	0.0	10336.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	1.0
10°-20°	357.7	3.5
20°-30°	691.2	6.7
30°-40°	1167.2	11.3
40°-50°	1851.0	17.9
50°-60°	2478.2	24.0
60°-70°	2358.5	22.8
70°-80°	1230.7	11.9
80°-90°	93.2	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°	10336.1	100.0
0°-180°	10336.1	100.0

Coefficient of Utilization



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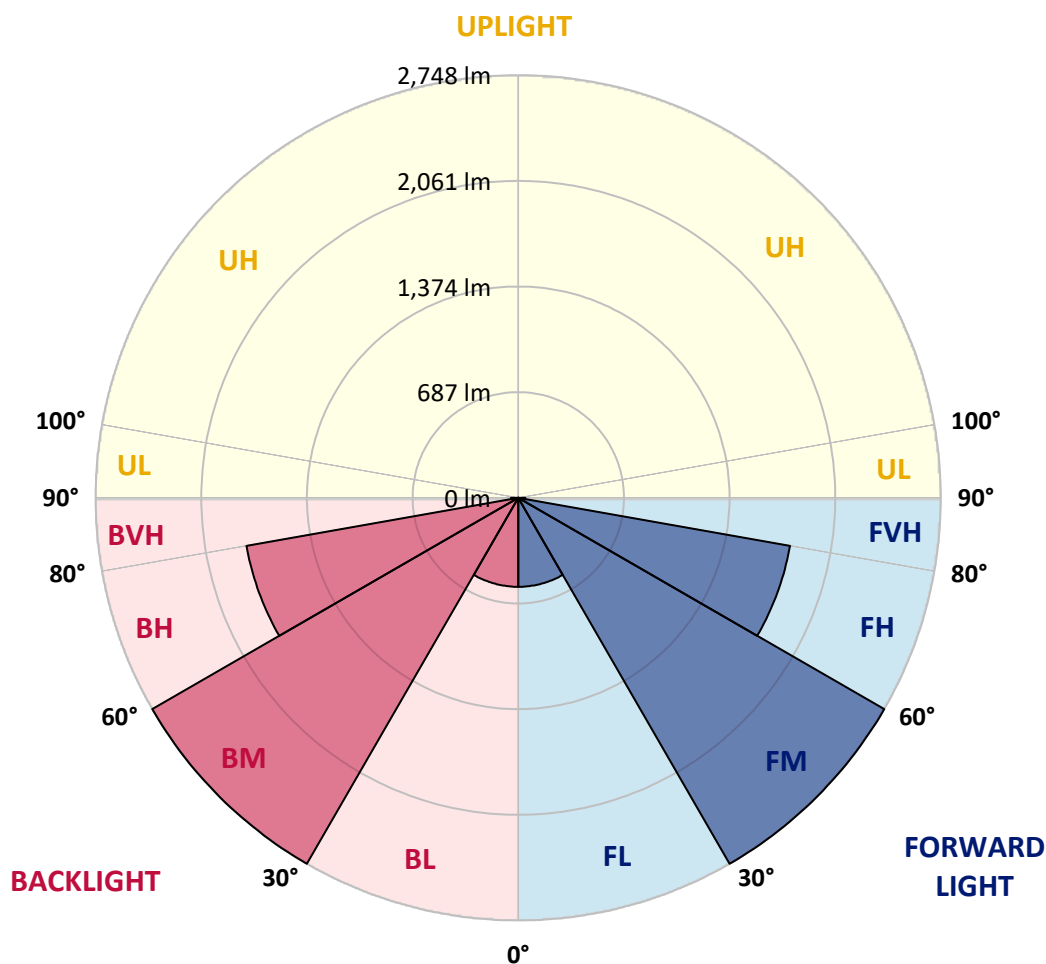
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.7	5.6			
FM	(30°-60°)	2748.2	26.6			
FH	(60°-80°)	1794.6	17.4			G1/1800
FVH	(80°-90°)	46.6	0.5			G1/100
BL	(0°-30°)	578.7	5.6	B2/1000		
BM	(30°-60°)	2748.2	26.6	B3/5000		
BH	(60°-80°)	1794.6	17.4	B3/2500		G3/2500
BVH	(80°-90°)	46.6	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°	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2	1107.2
2.5°	1107.2	1106.1	1107.2	1108.2	1107.7	1107.7	1110.4	1111.9	1115.1	1114.6	1114.1
5°	1099.8	1099.3	1103.5	1108.2	1111.9	1118.3	1126.2	1132.0	1139.4	1140.9	1140.9
7.5°	1096.1	1094.5	1101.9	1110.4	1122.0	1137.8	1153.1	1168.9	1181.6	1185.8	1186.8
10°	1098.7	1099.3	1109.3	1125.1	1143.6	1165.7	1187.4	1214.3	1232.3	1236.5	1240.7
12.5°	1110.9	1109.9	1126.7	1152.0	1177.4	1205.3	1230.7	1260.2	1279.7	1289.8	1294.0
15°	1133.0	1130.9	1154.7	1192.2	1229.1	1261.8	1282.4	1310.4	1333.0	1345.7	1350.4
17.5°	1159.4	1160.5	1191.7	1240.1	1288.7	1325.6	1345.2	1359.5	1376.9	1388.0	1393.2
20°	1205.9	1208.0	1242.8	1300.3	1355.8	1398.0	1413.8	1408.6	1413.3	1421.7	1428.0
22.5°	1268.1	1269.2	1308.2	1370.5	1428.5	1475.0	1485.5	1463.9	1450.8	1456.5	1460.7
25°	1340.4	1347.3	1386.3	1450.2	1509.8	1554.2	1558.9	1526.2	1493.5	1495.1	1497.7
27.5°	1428.5	1434.9	1474.5	1537.8	1598.5	1637.0	1636.5	1592.6	1544.7	1532.6	1536.3
30°	1524.1	1530.9	1571.6	1637.0	1693.5	1727.2	1719.8	1667.7	1599.0	1576.3	1579.0
32.5°	1637.5	1641.7	1682.9	1748.3	1800.6	1827.6	1812.2	1747.8	1662.3	1636.5	1642.9
35°	1774.8	1781.1	1811.7	1873.5	1919.3	1941.6	1915.6	1839.7	1743.6	1714.6	1718.8
37.5°	1931.5	1927.3	1962.2	2017.0	2055.0	2068.8	2033.4	1943.1	1836.5	1802.2	1808.5
40°	2095.1	2092.9	2131.0	2183.8	2204.4	2212.8	2160.5	2061.9	1943.6	1906.7	1918.8
42.5°	2243.4	2241.8	2293.0	2351.6	2376.4	2366.8	2300.9	2188.0	2067.6	2025.4	2036.0
45°	2362.1	2360.1	2422.8	2505.1	2553.7	2537.9	2449.2	2327.3	2193.3	2149.4	2159.5
47.5°	2453.4	2454.5	2522.0	2623.9	2708.9	2714.6	2600.6	2469.2	2331.6	2282.0	2296.7
50°	2519.3	2522.5	2594.9	2707.7	2823.9	2875.1	2755.3	2614.9	2474.6	2418.6	2435.5
52.5°	2535.7	2541.6	2628.6	2761.0	2897.8	2995.4	2912.5	2754.8	2610.2	2556.9	2570.6
55°	2448.7	2460.3	2570.6	2756.8	2943.2	3074.6	3050.8	2896.8	2746.8	2692.0	2707.2
57.5°	2248.6	2265.0	2393.8	2637.1	2933.1	3128.9	3157.9	3032.9	2883.5	2830.7	2842.9
60°	1968.4	1988.0	2111.5	2376.9	2791.7	3149.0	3233.4	3165.3	3009.1	2957.9	2969.0
62.5°	1545.7	1571.0	1718.8	2030.2	2493.0	3055.5	3297.8	3285.1	3122.0	3058.2	3065.6
65°	991.6	1018.5	1174.2	1542.0	2094.6	2769.5	3317.8	3401.8	3241.4	3152.2	3163.3
67.5°	597.9	610.1	687.1	934.6	1530.9	2338.3	3147.9	3531.0	3380.7	3269.9	3278.3
70°	382.6	389.5	435.4	548.9	865.5	1706.1	2726.8	3555.3	3549.6	3390.7	3389.6
72.5°	259.6	261.8	273.9	325.1	489.7	969.4	2011.2	3218.6	3655.0	3546.4	3529.5
75°	189.9	201.6	221.1	230.1	278.1	484.4	1152.6	2261.4	3080.3	3127.9	3012.8
77.5°	141.4	142.0	168.9	179.5	198.4	258.1	487.6	1262.3	1912.5	2008.0	1791.1
80°	119.8	113.5	113.0	144.6	149.3	160.9	217.9	435.9	685.0	415.3	314.0
82.5°	99.7	92.9	83.9	113.0	101.9	98.7	94.5	177.3	217.9	107.1	91.3
85°	69.7	66.5	63.3	73.9	58.0	49.6	45.4	82.8	91.8	45.4	40.1
87.5°	30.0	31.2	31.7	32.7	24.3	17.4	17.4	23.3	23.3	17.9	13.2
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)