

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: P961420

Luminaire Tested: **NAV-SB2A-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-740-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

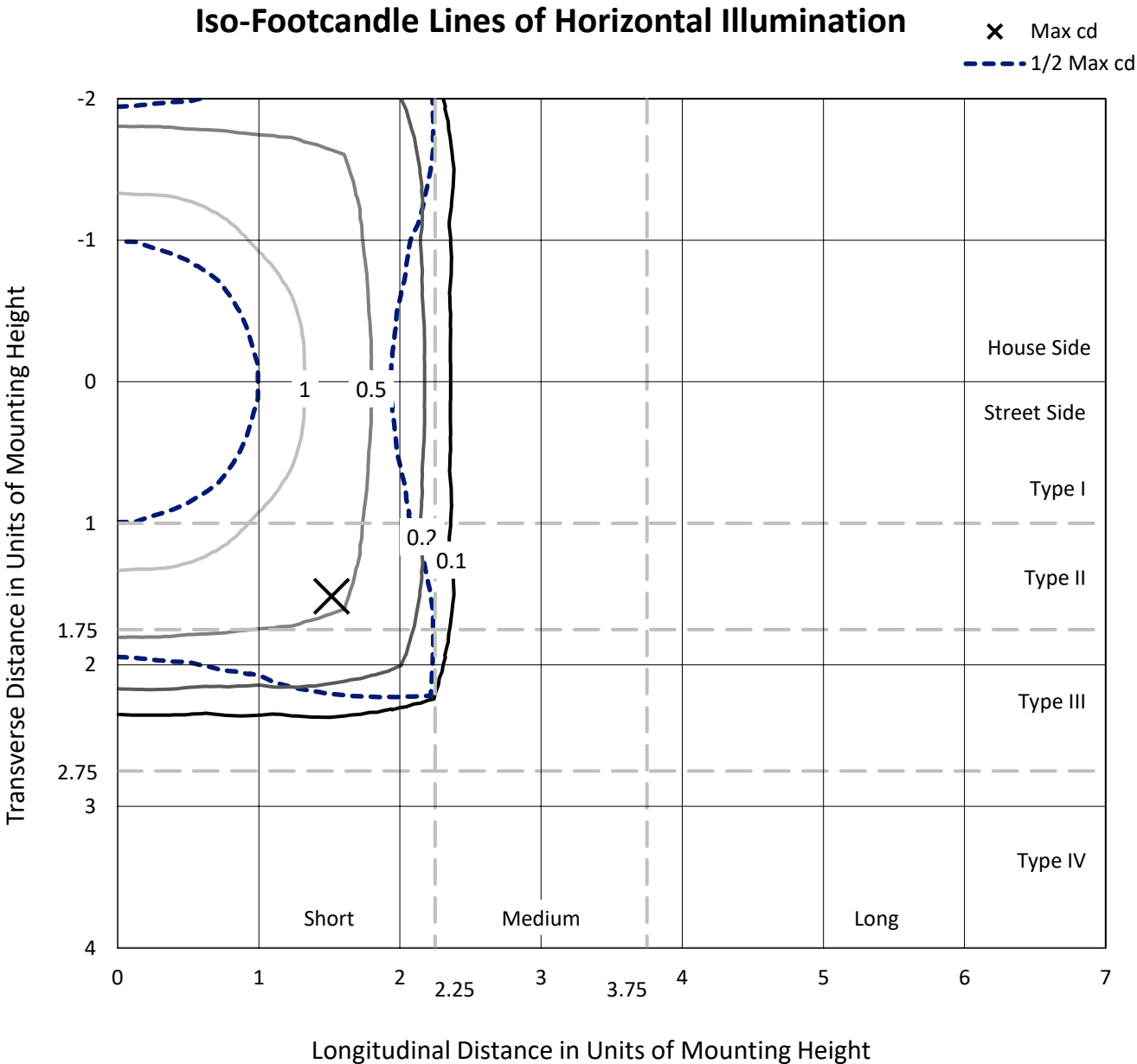
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10193.6 lumens
Efficiency: N/A
Efficacy: 177.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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



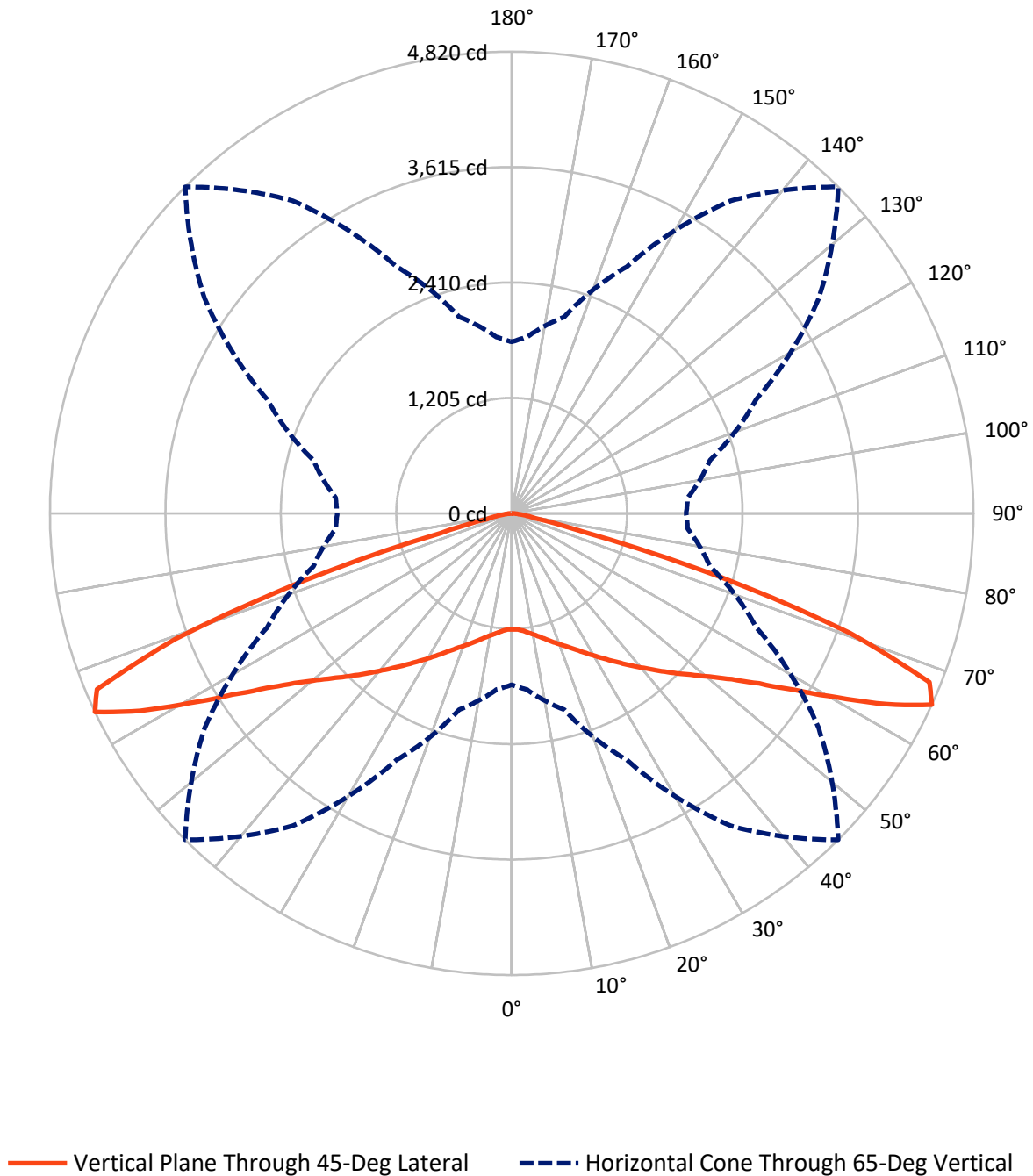
REPORT NUMBER: P961420
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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



REPORT NUMBER: P961420

CATALOG NUMBER: NAV-SB2A-740-U-5NQ

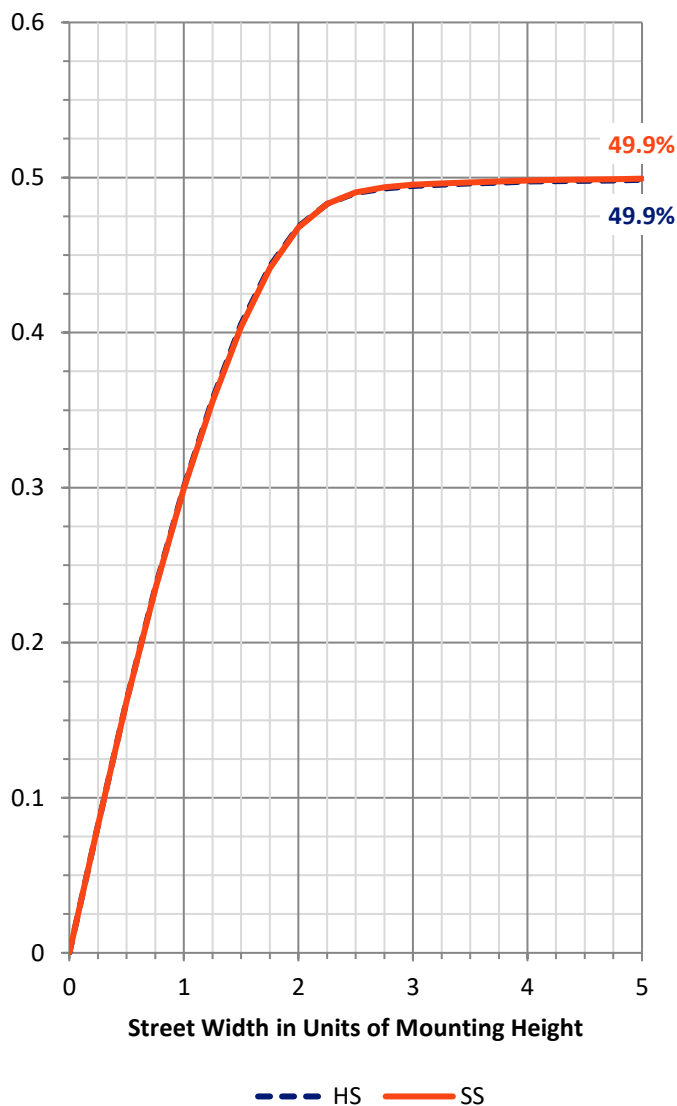
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5096.8	0.0	5096.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5096.8	0.0	5096.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10193.6	0.0	10193.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.2
10°-20°	390.7	3.8
20°-30°	737.6	7.2
30°-40°	1207.9	11.8
40°-50°	1872.8	18.4
50°-60°	2766.5	27.1
60°-70°	2633.4	25.8
70°-80°	424.9	4.2
80°-90°	40.0	0.4
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°	10193.6	100.0
0°-180°	10193.6	100.0

Coefficient of Utilization



REPORT NUMBER: P961420

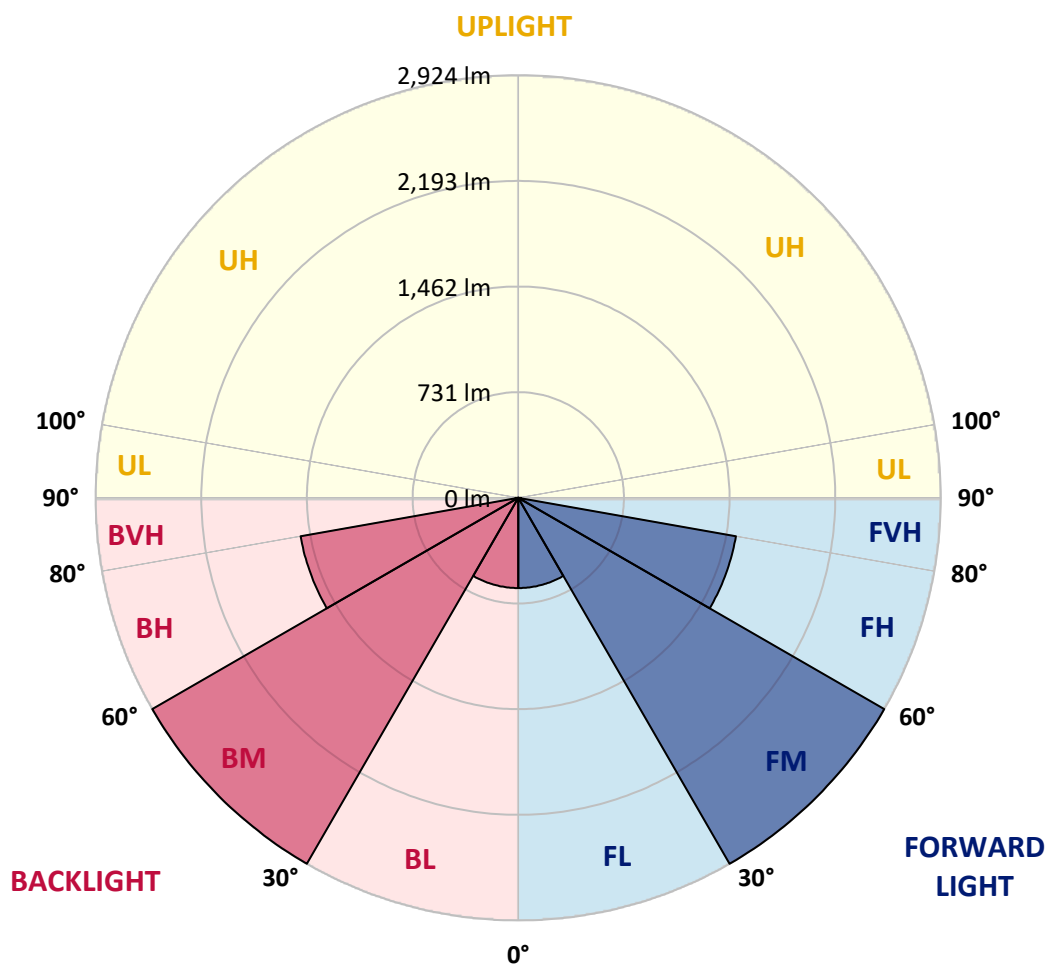
CATALOG NUMBER: NAV-SB2A-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.0	6.1			
FM	(30°-60°)	2923.6	28.7			
FH	(60°-80°)	1529.2	15.0			G1/1800
FVH	(80°-90°)	20.0	0.2			G1/100
BL	(0°-30°)	624.0	6.1	B2/1000		
BM	(30°-60°)	2923.6	28.7	B3/5000		
BH	(60°-80°)	1529.2	15.0	B3/2500		G1/1800
BVH	(80°-90°)	20.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



REPORT NUMBER: P961420

CATALOG NUMBER: NAV-SB2A-740-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1213.2	1213.2	1213.2	1213.2	1213.2	1213.2	1213.2	1213.2	1213.2	1213.2	1213.2
2.5°	1221.3	1217.2	1220.3	1217.7	1215.6	1213.7	1214.7	1218.2	1219.8	1220.3	1220.3
5°	1237.7	1234.1	1235.6	1235.6	1232.0	1231.0	1231.5	1234.1	1237.2	1237.2	1237.2
7.5°	1264.3	1260.8	1264.3	1262.3	1259.2	1258.2	1257.7	1259.7	1264.3	1264.3	1262.8
10°	1296.5	1292.4	1294.5	1293.4	1289.9	1288.3	1287.8	1290.9	1295.0	1294.5	1293.4
12.5°	1331.8	1327.2	1329.7	1326.7	1325.6	1324.1	1324.1	1323.6	1326.1	1324.1	1325.1
15°	1371.1	1368.1	1369.1	1367.0	1368.6	1367.6	1363.6	1361.5	1362.5	1359.5	1360.0
17.5°	1417.7	1410.6	1414.1	1413.2	1413.2	1415.1	1408.6	1406.0	1408.0	1405.0	1407.5
20°	1471.4	1464.2	1465.7	1463.7	1461.2	1463.3	1455.1	1457.1	1458.7	1456.6	1461.2
22.5°	1530.2	1521.0	1520.5	1521.5	1515.9	1516.4	1510.8	1515.9	1518.9	1513.3	1518.9
25°	1590.6	1580.9	1587.5	1585.0	1577.8	1579.3	1575.2	1580.3	1582.9	1575.7	1583.9
27.5°	1654.6	1647.9	1654.0	1655.6	1646.9	1653.0	1646.9	1651.5	1654.0	1643.3	1651.5
30°	1729.2	1722.5	1728.2	1732.2	1722.0	1731.7	1726.6	1729.7	1730.2	1717.4	1725.1
32.5°	1810.6	1800.3	1814.6	1816.6	1805.4	1817.1	1810.6	1814.6	1817.1	1799.8	1811.5
35°	1909.8	1897.0	1913.3	1910.7	1901.1	1910.7	1904.7	1910.7	1916.9	1895.9	1908.8
37.5°	2016.6	2003.4	2020.7	2016.1	2007.0	2013.5	2009.9	2014.0	2023.8	2001.3	2015.0
40°	2134.3	2117.9	2141.4	2133.2	2124.5	2123.5	2125.5	2128.1	2140.9	2115.8	2124.0
42.5°	2260.0	2242.7	2278.0	2265.1	2253.0	2244.8	2251.4	2256.5	2268.7	2240.6	2255.5
45°	2403.8	2383.8	2429.9	2414.5	2395.1	2378.2	2389.0	2396.7	2414.5	2380.8	2398.2
47.5°	2562.3	2539.8	2588.9	2584.3	2552.7	2515.8	2540.4	2562.3	2575.6	2534.7	2548.6
50°	2717.3	2700.0	2764.3	2770.0	2731.1	2679.5	2713.7	2747.0	2750.6	2696.9	2703.5
52.5°	2862.5	2845.2	2938.8	2974.0	2939.3	2877.9	2914.2	2948.0	2920.8	2851.3	2853.3
55°	2978.6	2964.3	3083.5	3174.5	3186.3	3135.7	3157.1	3156.1	3067.1	2960.2	2963.8
57.5°	3006.7	3004.7	3155.1	3348.0	3470.6	3476.8	3434.4	3325.9	3134.1	2990.4	2981.2
60°	2878.9	2891.7	3098.4	3438.5	3765.7	3901.8	3718.2	3408.7	3057.9	2858.4	2834.9
62.5°	2496.4	2530.1	2779.2	3328.0	4004.1	4390.7	3945.7	3283.0	2745.0	2484.6	2469.2
65°	1789.0	1847.9	2123.0	2840.1	3982.6	4820.4	3913.0	2817.0	2143.5	1843.3	1821.2
67.5°	811.7	871.5	1105.3	1944.5	3461.9	4703.7	3453.7	1964.9	1160.5	874.5	861.8
70°	294.1	304.3	379.5	778.4	2212.5	3747.8	2307.1	784.0	403.5	324.2	320.2
72.5°	177.9	179.5	195.4	278.7	768.7	2275.4	801.4	287.9	199.5	176.9	180.0
75°	113.1	112.0	139.1	170.4	272.6	767.7	285.9	170.4	138.6	126.3	127.3
77.5°	81.3	83.8	99.7	127.3	171.9	260.3	168.8	121.8	99.7	81.8	83.3
80°	60.9	62.4	72.7	99.2	120.7	162.2	107.4	90.0	75.1	51.1	52.7
82.5°	44.0	44.0	47.6	72.2	73.7	87.4	58.3	63.4	49.6	36.3	36.3
85°	26.0	25.5	29.6	42.9	38.3	32.2	26.5	38.8	31.2	22.5	22.0
87.5°	9.2	9.7	9.2	12.3	10.2	8.7	8.2	10.8	8.7	7.7	7.2
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)