

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: McGRAW-EDISON

Report Number: P451293

Luminaire Tested: **GALN-SA2A-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7627 lumens
Efficiency: N/A
Efficacy: 121.1 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): 63
Input Voltage (V): NR
Input Current (A_{in}): 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

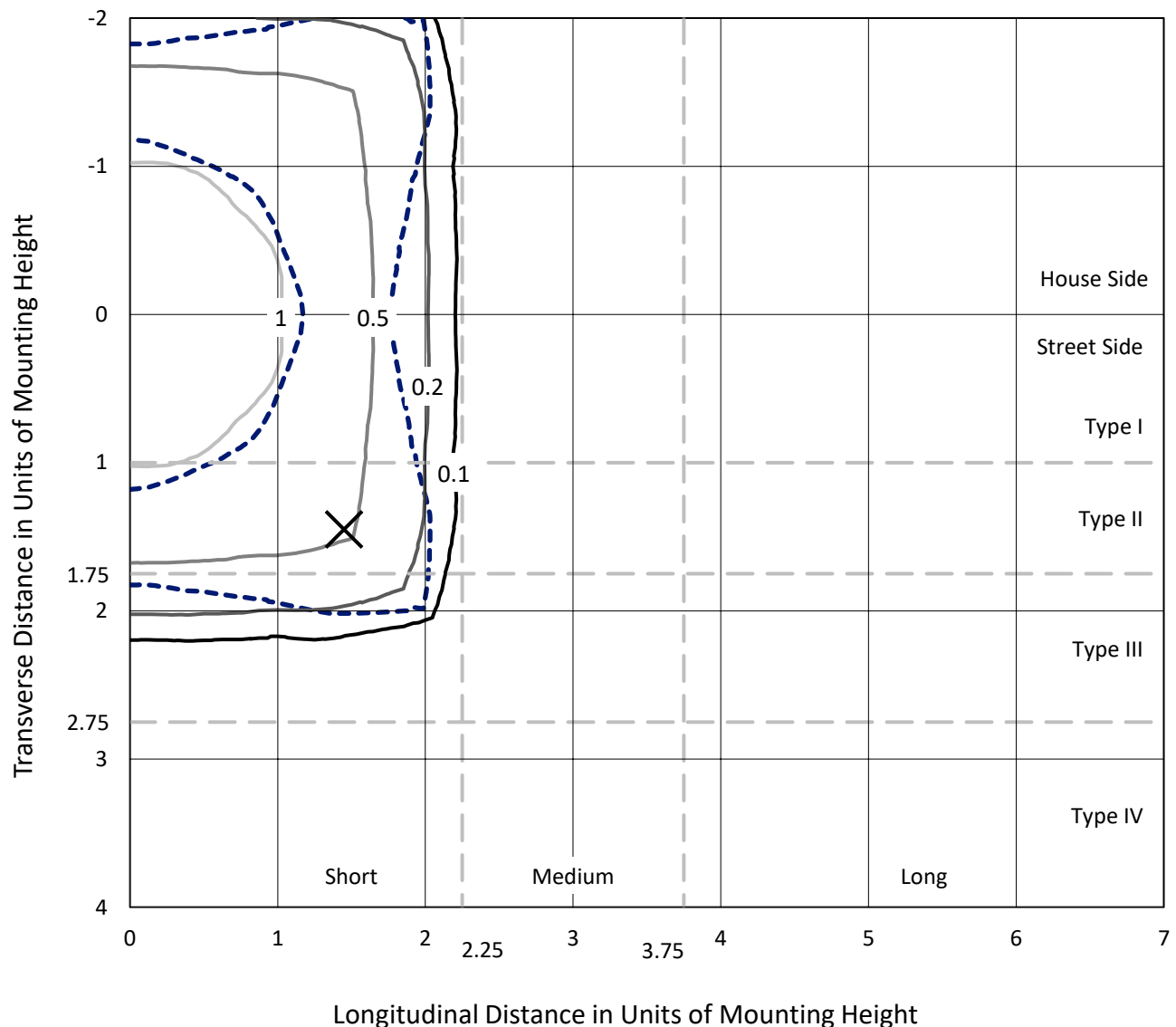


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

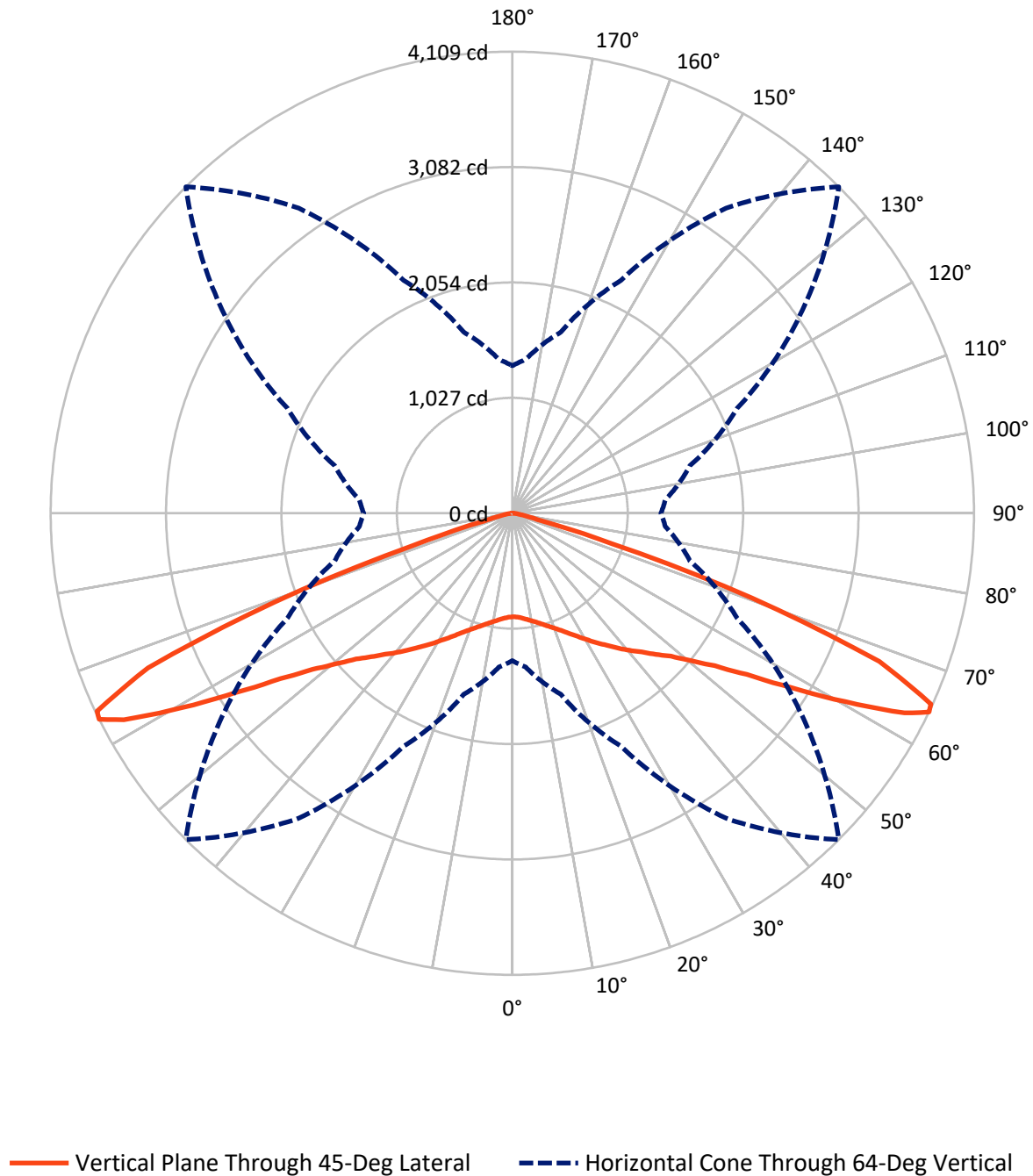


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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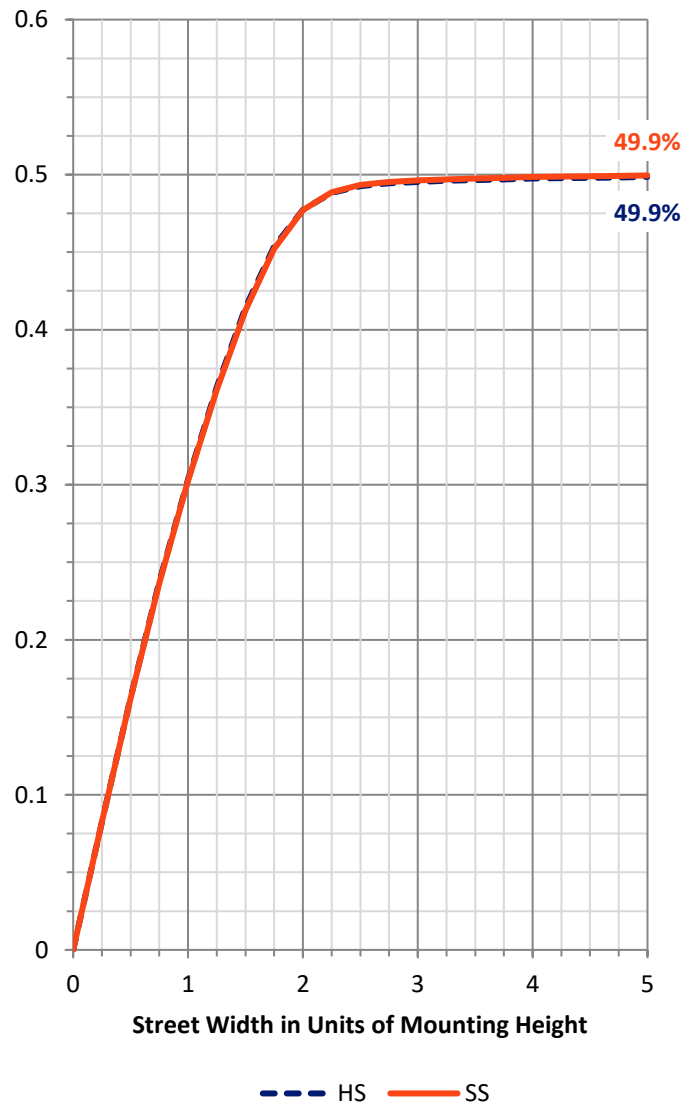
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3813.5	0.0	3813.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3813.5	0.0	3813.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7627.0	0.0	7627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.2
10°-20°	292.1	3.8
20°-30°	552.0	7.2
30°-40°	914.2	12.0
40°-50°	1427.3	18.7
50°-60°	2206.6	28.9
60°-70°	1902.7	24.9
70°-80°	215.6	2.8
80°-90°	25.8	0.3
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°	7627.0	100.0
0°-180°	7627.0	100.0

Coefficient of Utilization



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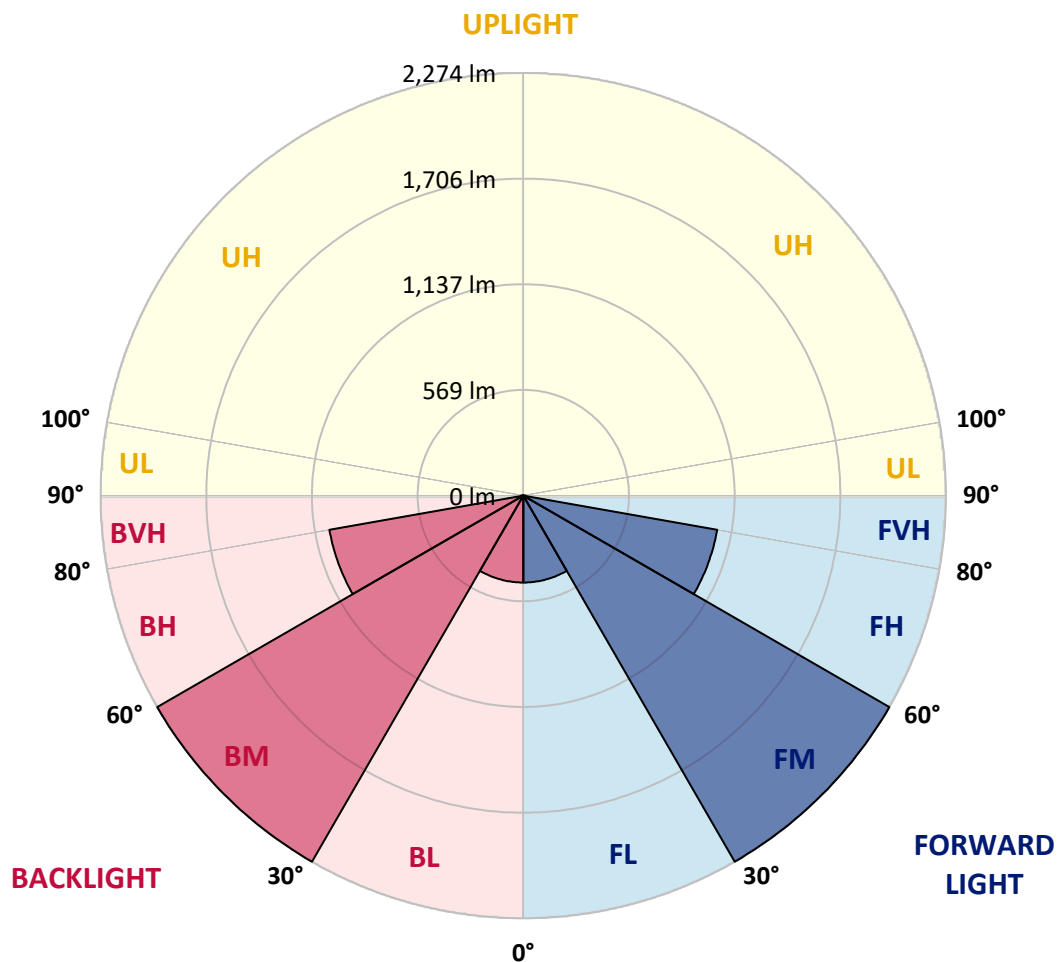
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.4	6.1			
FM	(30°-60°)	2274.0	29.8			
FH	(60°-80°)	1059.2	13.9			G1/1800
FVH	(80°-90°)	12.9	0.2			G1/100
BL	(0°-30°)	467.4	6.1	B1/500		
BM	(30°-60°)	2274.0	29.8	B2/2500		
BH	(60°-80°)	1059.2	13.9	B3/2500		G1/1800
BVH	(80°-90°)	12.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	925.5	927.5	925.9	925.5	925.1	925.1	925.1	925.5	927.1	928.3	927.5
5°	937.2	938.8	938.0	937.6	937.2	937.6	936.8	936.4	937.6	937.6	937.2
7.5°	951.7	953.8	953.0	953.8	954.2	954.6	952.6	950.9	950.5	951.7	950.9
10°	971.5	973.2	973.6	974.0	974.8	974.4	971.9	969.1	968.7	968.3	967.9
12.5°	993.8	995.0	995.4	997.0	998.2	998.6	995.8	993.4	989.3	990.1	988.5
15°	1018.8	1021.2	1020.8	1023.2	1026.5	1027.3	1024.5	1020.4	1016.8	1014.8	1013.6
17.5°	1049.5	1051.1	1050.3	1052.7	1056.8	1058.8	1056.4	1051.1	1047.5	1043.0	1040.6
20°	1085.9	1088.7	1089.5	1089.5	1093.1	1095.2	1091.5	1089.9	1084.2	1081.0	1079.0
22.5°	1127.1	1128.3	1130.7	1133.1	1136.8	1136.0	1134.7	1132.3	1127.1	1124.2	1121.0
25°	1173.5	1174.7	1180.8	1186.0	1187.3	1186.4	1184.8	1183.6	1178.8	1172.3	1169.9
27.5°	1227.7	1230.1	1238.2	1243.0	1243.0	1243.4	1240.2	1244.2	1233.7	1226.0	1225.2
30°	1295.5	1297.1	1304.0	1308.9	1306.4	1304.4	1303.6	1307.6	1296.3	1282.6	1279.4
32.5°	1362.6	1368.2	1374.3	1384.8	1376.3	1372.7	1371.9	1374.7	1361.8	1346.4	1342.0
35°	1434.5	1438.5	1449.8	1458.7	1451.0	1442.6	1446.2	1455.1	1439.7	1419.1	1418.3
37.5°	1514.1	1517.7	1532.2	1541.5	1535.9	1521.3	1527.4	1537.9	1522.5	1497.1	1491.8
40°	1596.9	1604.6	1622.7	1632.4	1623.1	1603.7	1615.1	1626.4	1612.6	1583.1	1571.4
42.5°	1689.8	1701.9	1728.2	1733.0	1715.2	1689.0	1708.8	1727.0	1717.3	1683.3	1678.9
45°	1798.5	1805.7	1838.0	1848.5	1823.9	1791.2	1815.8	1849.0	1841.7	1802.5	1794.0
47.5°	1920.1	1926.9	1960.4	1976.2	1945.1	1901.1	1945.5	1988.7	1984.3	1942.3	1938.2
50°	2063.9	2065.5	2111.9	2129.7	2098.6	2060.6	2100.2	2153.9	2136.2	2082.4	2081.6
52.5°	2221.4	2223.4	2282.0	2316.3	2299.0	2256.2	2303.0	2335.7	2290.5	2220.2	2214.9
55°	2358.0	2368.1	2448.0	2539.3	2563.2	2532.1	2546.2	2530.8	2419.4	2320.8	2305.4
57.5°	2413.7	2433.5	2555.1	2725.6	2880.7	2926.7	2817.7	2671.4	2470.7	2331.3	2316.3
60°	2277.6	2299.0	2487.6	2811.2	3207.1	3407.1	3100.4	2695.3	2353.9	2158.0	2134.6
62.5°	1823.9	1830.0	2107.5	2609.6	3397.4	3915.2	3219.6	2492.1	2014.2	1748.0	1738.7
64°	1312.5	1374.7	1668.8	2288.1	3314.1	4108.7	3150.9	2207.3	1636.1	1366.6	1323.0
65°	981.6	998.6	1345.2	1954.0	3167.5	4094.2	3017.6	1935.0	1354.9	1045.9	997.4
67.5°	370.8	372.9	496.5	974.0	2254.9	3522.6	2303.0	1052.7	570.8	412.9	397.9
70°	153.9	156.7	182.2	327.6	969.1	2261.8	1110.5	379.7	208.9	169.3	166.8
72.5°	112.7	114.3	122.0	145.4	298.1	928.7	365.2	161.2	122.4	109.5	108.3
75°	88.5	89.3	94.9	107.1	139.0	257.3	151.9	110.7	93.3	84.0	83.2
77.5°	67.5	69.5	73.5	81.6	93.3	122.0	100.6	82.8	71.9	64.2	63.0
80°	46.5	48.9	56.6	59.8	62.6	79.2	68.7	62.6	56.2	46.9	44.0
82.5°	28.7	30.3	38.0	40.8	39.6	44.4	44.0	44.8	40.0	29.1	27.1
85°	14.9	15.8	20.6	21.4	19.8	18.2	22.6	26.3	24.6	16.6	16.2
87.5°	3.2	3.6	4.4	4.0	4.4	4.4	5.7	8.5	8.9	5.7	5.3
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)