

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: P451525

Luminaire Tested: **GALN-SA2B-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451525
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-SA2B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9490 lumens
Efficiency: N/A
Efficacy: 115.7 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): 82
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



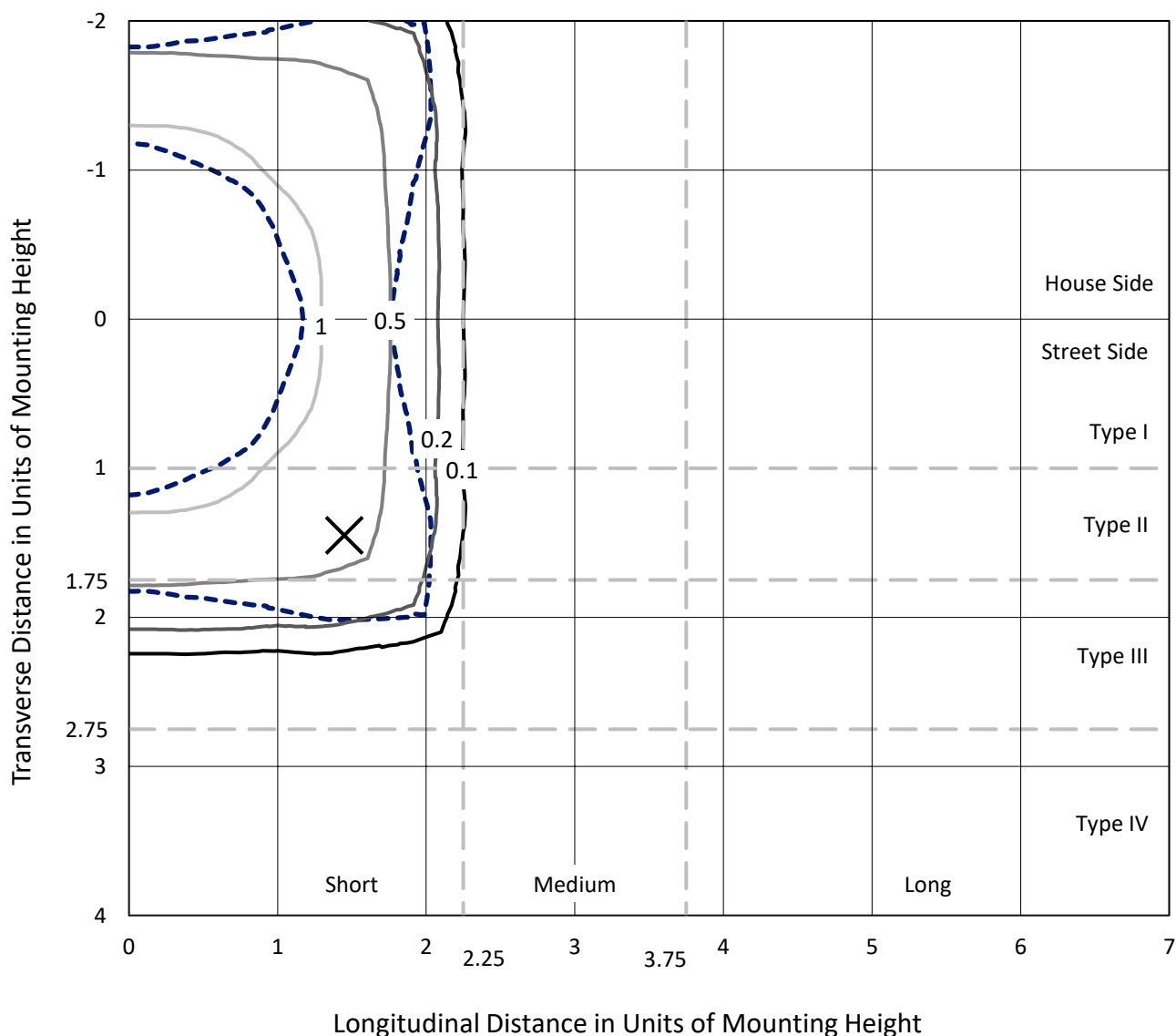
REPORT NUMBER: P451525

CATALOG NUMBER: GALN-SA2B-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

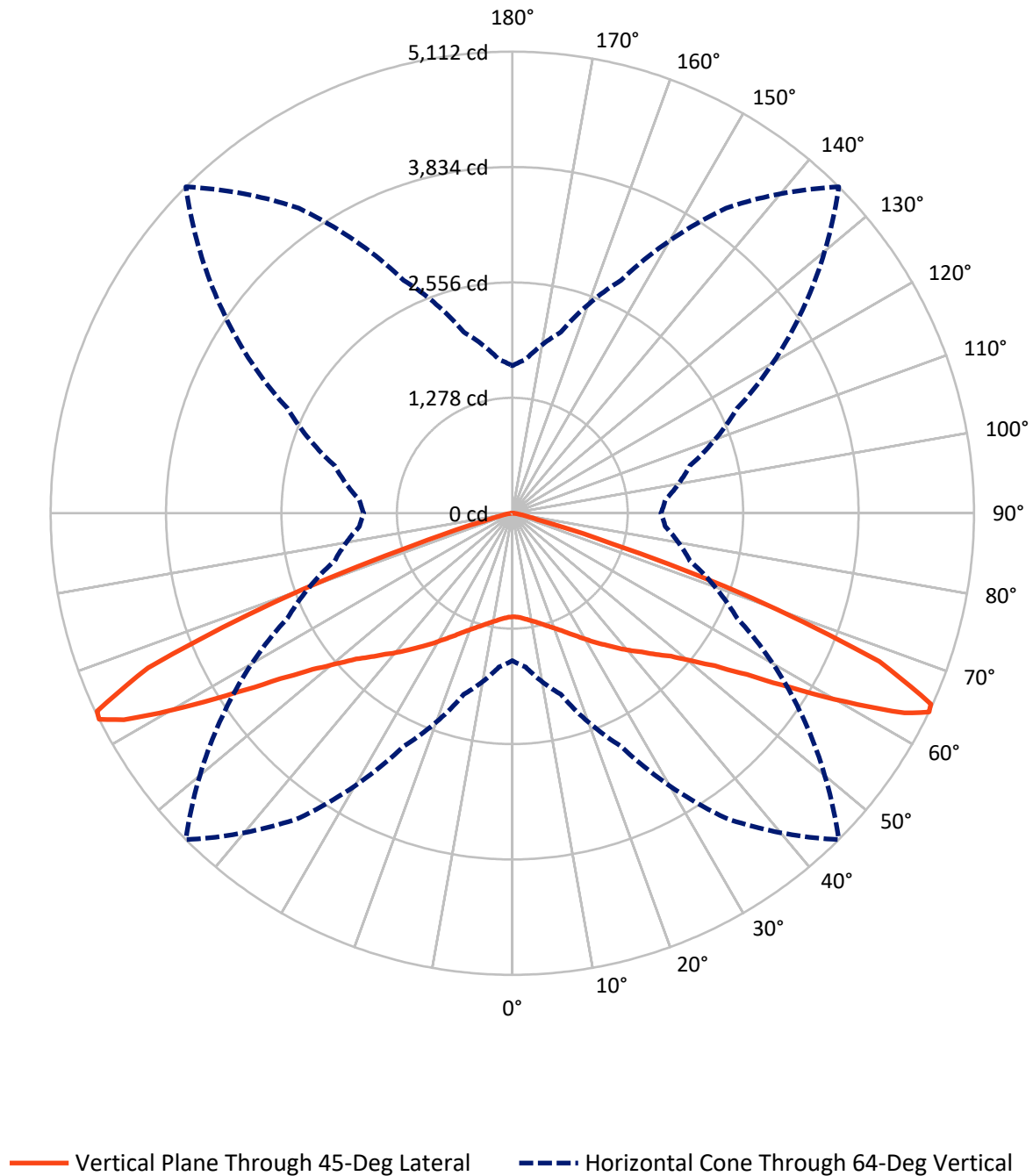


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

REPORT NUMBER: P451525

CATALOG NUMBER: GALN-SA2B-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P451525

CATALOG NUMBER: GALN-SA2B-830-U-5NQ

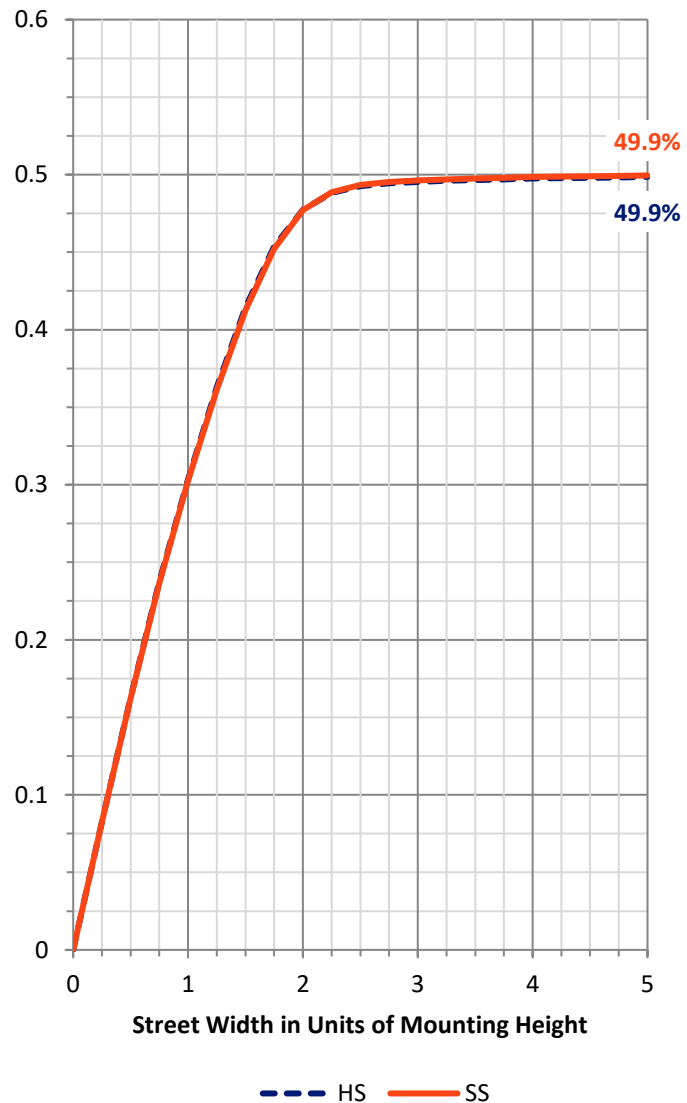
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4745.0	0.0	4745.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4745.0	0.0	4745.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9490.0	0.0	9490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.2
10°-20°	363.5	3.8
20°-30°	686.9	7.2
30°-40°	1137.6	12.0
40°-50°	1775.9	18.7
50°-60°	2745.5	28.9
60°-70°	2367.5	24.9
70°-80°	268.3	2.8
80°-90°	32.1	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°	9490.0	100.0
0°-180°	9490.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451525

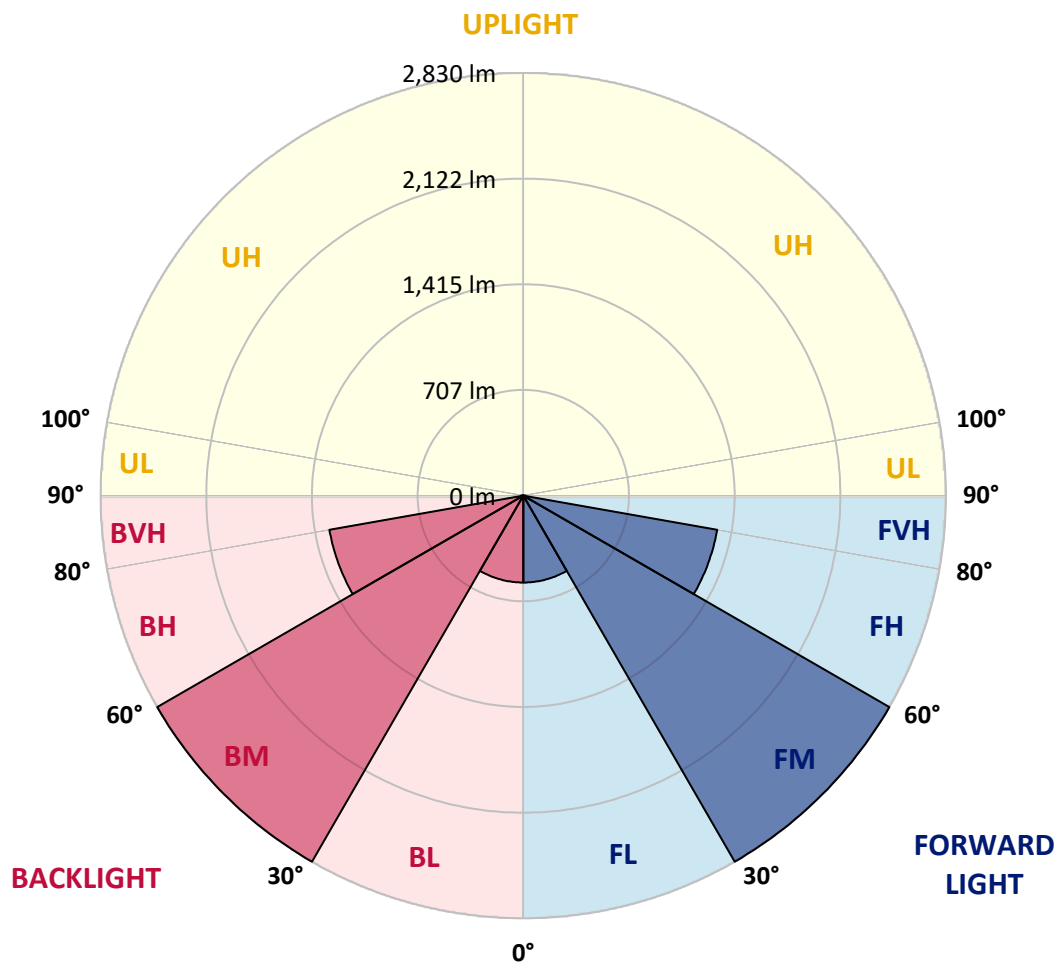
CATALOG NUMBER: GALN-SA2B-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.5	6.1			
FM	(30°-60°)	2829.5	29.8			
FH	(60°-80°)	1317.9	13.9			G1/1800
FVH	(80°-90°)	16.1	0.2			G1/100
BL	(0°-30°)	581.5	6.1	B2/1000		
BM	(30°-60°)	2829.5	29.8	B3/5000		
BH	(60°-80°)	1317.9	13.9	B3/2500		G1/1800
BVH	(80°-90°)	16.1	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: P451525

CATALOG NUMBER: GALN-SA2B-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0
2.5°	1151.5	1154.1	1152.1	1151.5	1151.0	1151.0	1151.0	1151.5	1153.6	1155.1	1154.1
5°	1166.1	1168.1	1167.1	1166.6	1166.1	1166.6	1165.6	1165.1	1166.6	1166.6	1166.1
7.5°	1184.2	1186.7	1185.7	1186.7	1187.2	1187.7	1185.2	1183.2	1182.7	1184.2	1183.2
10°	1208.9	1210.9	1211.4	1211.9	1212.9	1212.4	1209.4	1205.8	1205.3	1204.8	1204.3
12.5°	1236.5	1238.0	1238.5	1240.5	1242.0	1242.5	1239.0	1236.0	1231.0	1232.0	1230.0
15°	1267.7	1270.7	1270.2	1273.2	1277.2	1278.2	1274.7	1269.7	1265.1	1262.6	1261.1
17.5°	1305.9	1307.9	1306.9	1309.9	1314.9	1317.4	1314.4	1307.9	1303.3	1297.8	1294.8
20°	1351.1	1354.6	1355.6	1355.6	1360.1	1362.7	1358.1	1356.1	1349.1	1345.1	1342.6
22.5°	1402.4	1403.9	1406.9	1409.9	1414.4	1413.4	1411.9	1408.9	1402.4	1398.8	1394.8
25°	1460.2	1461.7	1469.2	1475.8	1477.3	1476.3	1474.2	1472.7	1466.7	1458.7	1455.6
27.5°	1527.5	1530.5	1540.6	1546.6	1546.6	1547.1	1543.1	1548.1	1535.1	1525.5	1524.5
30°	1612.0	1614.0	1622.5	1628.6	1625.5	1623.0	1622.0	1627.0	1613.0	1595.9	1591.9
32.5°	1695.4	1702.4	1710.0	1723.1	1712.5	1708.0	1707.0	1710.5	1694.4	1675.3	1669.8
35°	1784.9	1789.9	1804.0	1815.0	1805.5	1794.9	1799.5	1810.5	1791.4	1765.8	1764.8
37.5°	1883.9	1888.4	1906.5	1918.1	1911.0	1892.9	1900.5	1913.6	1894.5	1862.8	1856.3
40°	1986.9	1996.5	2019.1	2031.2	2019.6	1995.5	2009.6	2023.6	2006.5	1969.8	1955.3
42.5°	2102.5	2117.6	2150.3	2156.3	2134.2	2101.5	2126.2	2148.8	2136.7	2094.5	2089.0
45°	2237.8	2246.8	2287.0	2300.1	2269.4	2228.7	2259.4	2300.6	2291.5	2242.8	2232.2
47.5°	2389.1	2397.6	2439.3	2458.9	2420.2	2365.4	2420.7	2474.5	2469.0	2416.7	2411.7
50°	2568.0	2570.0	2627.8	2649.9	2611.2	2564.0	2613.2	2680.1	2658.0	2591.1	2590.1
52.5°	2764.0	2766.5	2839.4	2882.1	2860.5	2807.2	2865.6	2906.3	2850.0	2762.5	2756.0
55°	2933.9	2946.5	3046.0	3159.6	3189.3	3150.6	3168.1	3149.0	3010.3	2887.7	2868.6
57.5°	3003.3	3027.9	3179.2	3391.3	3584.3	3641.6	3505.9	3324.0	3074.2	2900.7	2882.1
60°	2833.9	2860.5	3095.3	3497.9	3990.5	4239.3	3857.8	3353.6	2928.9	2685.1	2656.0
62.5°	2269.4	2277.0	2622.3	3247.1	4227.2	4871.6	4006.0	3100.8	2506.2	2174.9	2163.4
64°	1633.1	1710.5	2076.4	2847.0	4123.7	5112.4	3920.6	2746.4	2035.7	1700.4	1646.1
65°	1221.4	1242.5	1673.8	2431.3	3941.2	5094.3	3754.7	2407.6	1685.9	1301.3	1241.0
67.5°	461.4	463.9	617.7	1211.9	2805.7	4383.0	2865.6	1309.9	710.2	513.7	495.1
70°	191.5	195.0	226.7	407.6	1205.8	2814.3	1381.8	472.5	259.9	210.6	207.6
72.5°	140.2	142.2	151.8	181.0	370.9	1155.6	454.4	200.6	152.3	136.2	134.7
75°	110.1	111.1	118.1	133.2	172.9	320.2	189.0	137.7	116.1	104.5	103.5
77.5°	83.9	86.5	91.5	101.5	116.1	151.8	125.2	103.0	89.5	79.9	78.4
80°	57.8	60.8	70.4	74.4	77.9	98.5	85.4	77.9	69.9	58.3	54.8
82.5°	35.7	37.7	47.2	50.8	49.3	55.3	54.8	55.8	49.8	36.2	33.7
85°	18.6	19.6	25.6	26.6	24.6	22.6	28.1	32.7	30.7	20.6	20.1
87.5°	4.0	4.5	5.5	5.0	5.5	5.5	7.0	10.6	11.1	7.0	6.5
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)