

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: P454078

Luminaire Tested: **GALN-SA5A-830-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19047 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 154
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

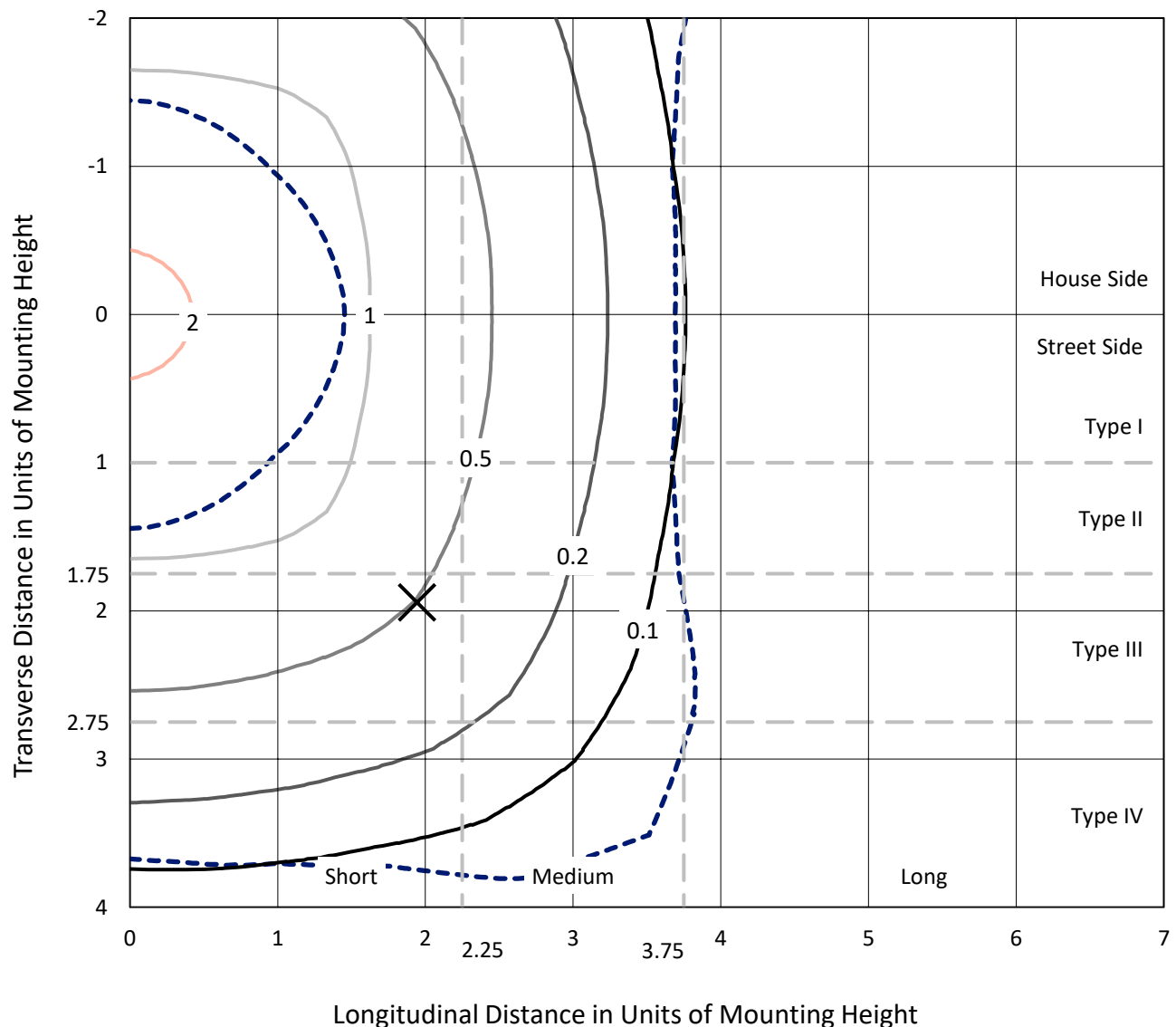


REPORT NUMBER: P454078

CATALOG NUMBER: GALN-SA5A-830-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

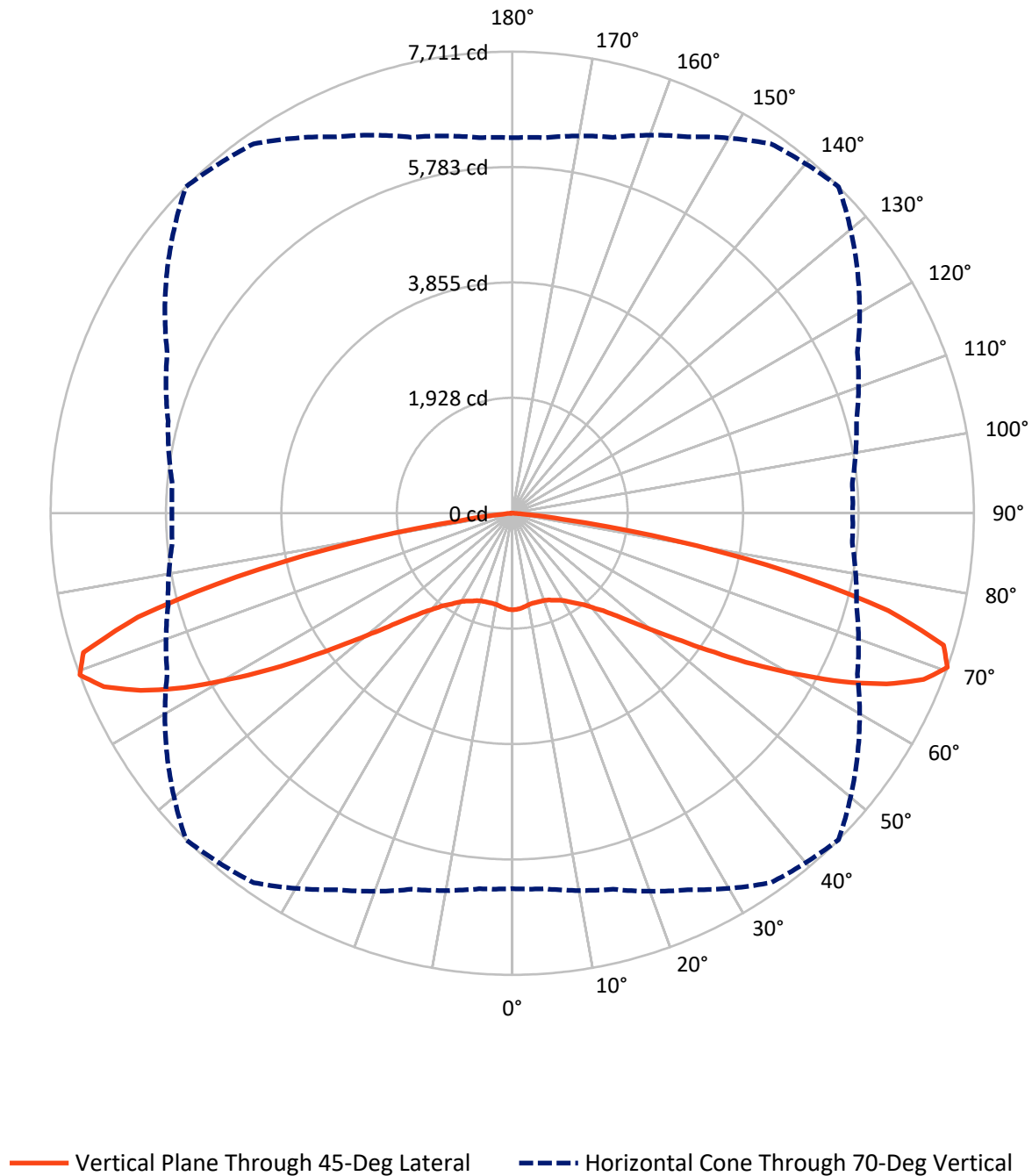


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

REPORT NUMBER: P454078

CATALOG NUMBER: GALN-SA5A-830-U-5WQ

Luminous Intensity Polar Plot



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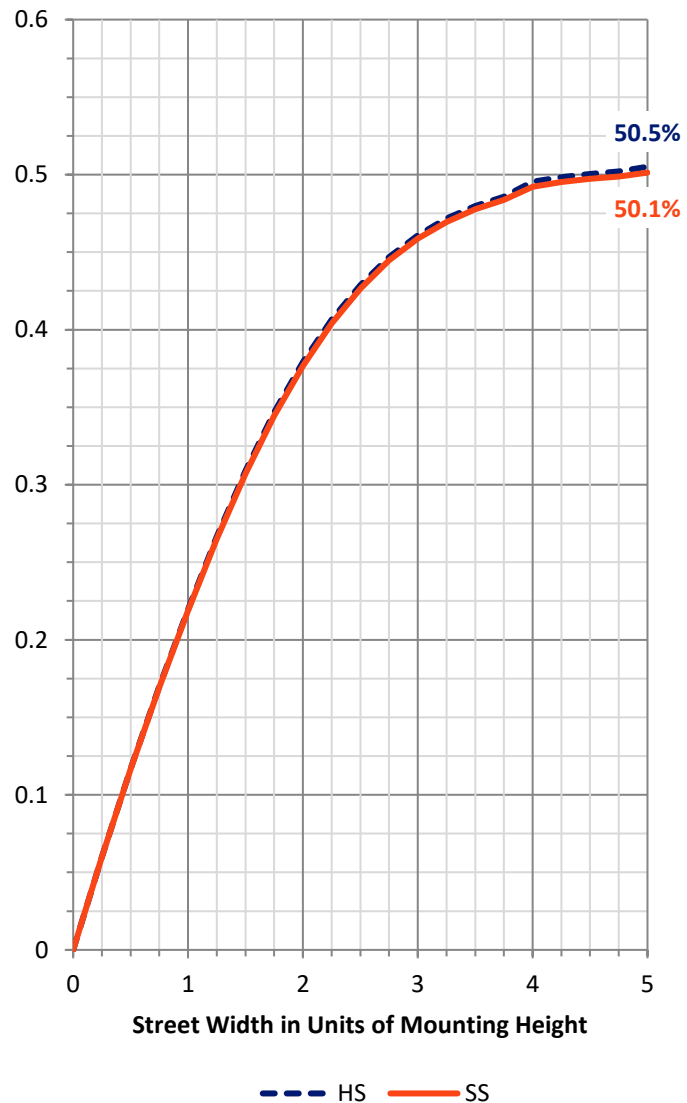
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9523.5	0.0	9523.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9523.5	0.0	9523.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19047.0	0.0	19047.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	0.8
10°-20°	441.5	2.3
20°-30°	752.2	3.9
30°-40°	1165.9	6.1
40°-50°	1962.4	10.3
50°-60°	3570.4	18.7
60°-70°	6044.7	31.7
70°-80°	4678.8	24.6
80°-90°	280.4	1.5
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°	19047.0	100.0
0°-180°	19047.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454078

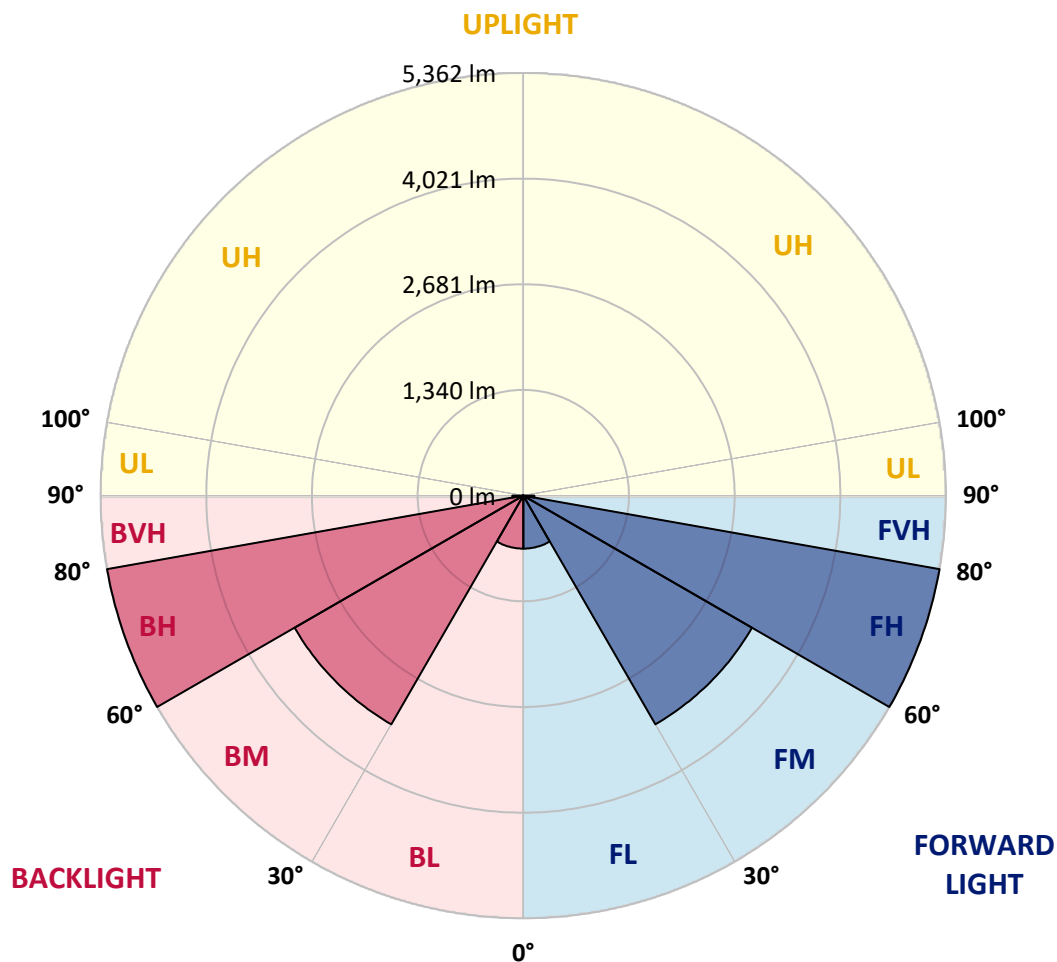
CATALOG NUMBER: GALN-SA5A-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	672.2	3.5			
FM	(30°-60°)	3349.3	17.6			
FH	(60°-80°)	5361.7	28.2			G3/7500
FVH	(80°-90°)	140.2	0.7			G2/225
BL	(0°-30°)	672.2	3.5	B2/1000		
BM	(30°-60°)	3349.3	17.6	B3/5000		
BH	(60°-80°)	5361.7	28.2	B5		G3/7500
BVH	(80°-90°)	140.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P454078

CATALOG NUMBER: GALN-SA5A-830-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6	1612.6
2.5°	1608.5	1609.5	1609.5	1607.5	1606.5	1606.5	1605.5	1605.5	1608.5	1609.5	1610.5
5°	1594.5	1594.5	1594.5	1593.4	1591.4	1591.4	1589.4	1589.4	1590.4	1593.4	1591.4
7.5°	1575.3	1577.4	1577.4	1573.3	1570.3	1570.3	1569.3	1570.3	1571.3	1574.3	1573.3
10°	1569.3	1570.3	1565.3	1558.2	1553.2	1550.2	1551.2	1553.2	1558.2	1560.3	1561.3
12.5°	1573.3	1573.3	1564.3	1554.2	1545.2	1541.1	1540.1	1547.2	1556.2	1562.3	1564.3
15°	1578.4	1576.3	1565.3	1552.2	1543.2	1542.1	1541.1	1546.2	1559.2	1571.3	1572.3
17.5°	1581.4	1580.4	1566.3	1550.2	1545.2	1545.2	1544.2	1548.2	1562.3	1577.4	1578.4
20°	1591.4	1588.4	1572.3	1555.2	1551.2	1553.2	1550.2	1555.2	1570.3	1588.4	1592.4
22.5°	1611.6	1608.5	1592.4	1575.3	1573.3	1573.3	1572.3	1577.4	1593.4	1612.6	1615.6
25°	1635.7	1632.7	1617.6	1605.5	1607.5	1611.6	1609.5	1610.5	1623.6	1639.7	1644.8
27.5°	1667.9	1662.9	1649.8	1639.7	1645.8	1645.8	1645.8	1644.8	1652.8	1667.9	1672.9
30°	1707.1	1705.1	1691.0	1690.0	1695.1	1690.0	1690.0	1691.0	1692.0	1706.1	1711.1
32.5°	1758.4	1754.4	1747.4	1745.3	1759.4	1763.5	1749.4	1736.3	1743.3	1757.4	1760.4
35°	1842.9	1836.9	1826.8	1815.8	1826.8	1845.9	1815.8	1805.7	1823.8	1842.9	1844.9
37.5°	1957.6	1954.6	1938.5	1918.4	1917.4	1937.5	1906.3	1905.3	1939.5	1962.6	1965.7
40°	2101.5	2104.5	2084.4	2065.2	2055.2	2071.3	2047.1	2056.2	2089.4	2115.5	2113.5
42.5°	2303.7	2292.6	2261.4	2243.3	2232.2	2226.2	2220.2	2234.2	2271.5	2299.6	2321.8
45°	2540.1	2536.0	2496.8	2474.7	2450.5	2441.5	2439.5	2464.6	2509.9	2544.1	2547.1
47.5°	2807.6	2798.6	2773.4	2750.3	2741.3	2730.2	2720.1	2739.2	2784.5	2808.7	2815.7
50°	3083.3	3085.3	3085.3	3081.3	3090.3	3092.3	3065.2	3072.2	3097.4	3095.4	3093.3
52.5°	3398.1	3409.2	3461.5	3466.6	3509.8	3539.0	3489.7	3460.5	3451.5	3397.1	3401.2
55°	3768.3	3778.4	3856.9	3935.3	4052.0	4101.3	3997.7	3907.2	3842.8	3760.3	3764.3
57.5°	4230.1	4235.1	4309.6	4460.4	4645.5	4761.2	4579.2	4400.1	4269.3	4190.8	4159.7
60°	4727.0	4732.1	4840.7	5024.8	5312.5	5453.3	5228.0	4935.3	4770.3	4650.6	4658.6
62.5°	5323.6	5343.7	5441.3	5694.8	6043.8	6201.8	5903.0	5511.7	5288.4	5139.5	5145.5
65°	5962.4	5996.6	6103.2	6381.8	6703.8	6873.8	6507.6	6055.9	5778.3	5596.2	5615.3
67.5°	6376.8	6407.0	6560.9	6868.7	7270.1	7410.9	6938.1	6412.0	6065.0	5847.7	5807.4
70°	6271.2	6296.3	6501.6	6938.1	7532.7	7710.7	7040.7	6359.7	5951.3	5700.8	5684.7
72.5°	5535.8	5483.5	5783.3	6410.0	7232.9	7531.7	6717.8	5808.4	5294.4	5036.9	5006.7
75°	3668.8	3782.4	4225.1	4963.4	6119.3	6489.5	5734.0	4663.7	4016.8	3802.5	3769.4
77.5°	1226.3	1313.8	1707.1	2813.7	4171.7	4728.0	4177.8	3050.1	2157.8	1738.3	1746.4
80°	324.9	320.9	415.5	773.6	1802.7	2738.2	2098.4	1033.1	565.4	409.4	388.3
82.5°	116.7	130.8	168.0	214.3	477.8	851.0	600.6	289.7	212.3	156.9	151.9
85°	51.3	50.3	72.4	85.5	119.7	158.9	140.8	122.7	107.6	71.4	66.4
87.5°	11.1	11.1	17.1	13.1	21.1	21.1	26.2	31.2	32.2	21.1	17.1
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)