

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: P451757

Luminaire Tested: **GALN-SA2C-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451757
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-SA2C-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11725 lumens
Efficiency: N/A
Efficacy: 108.6 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): 108
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

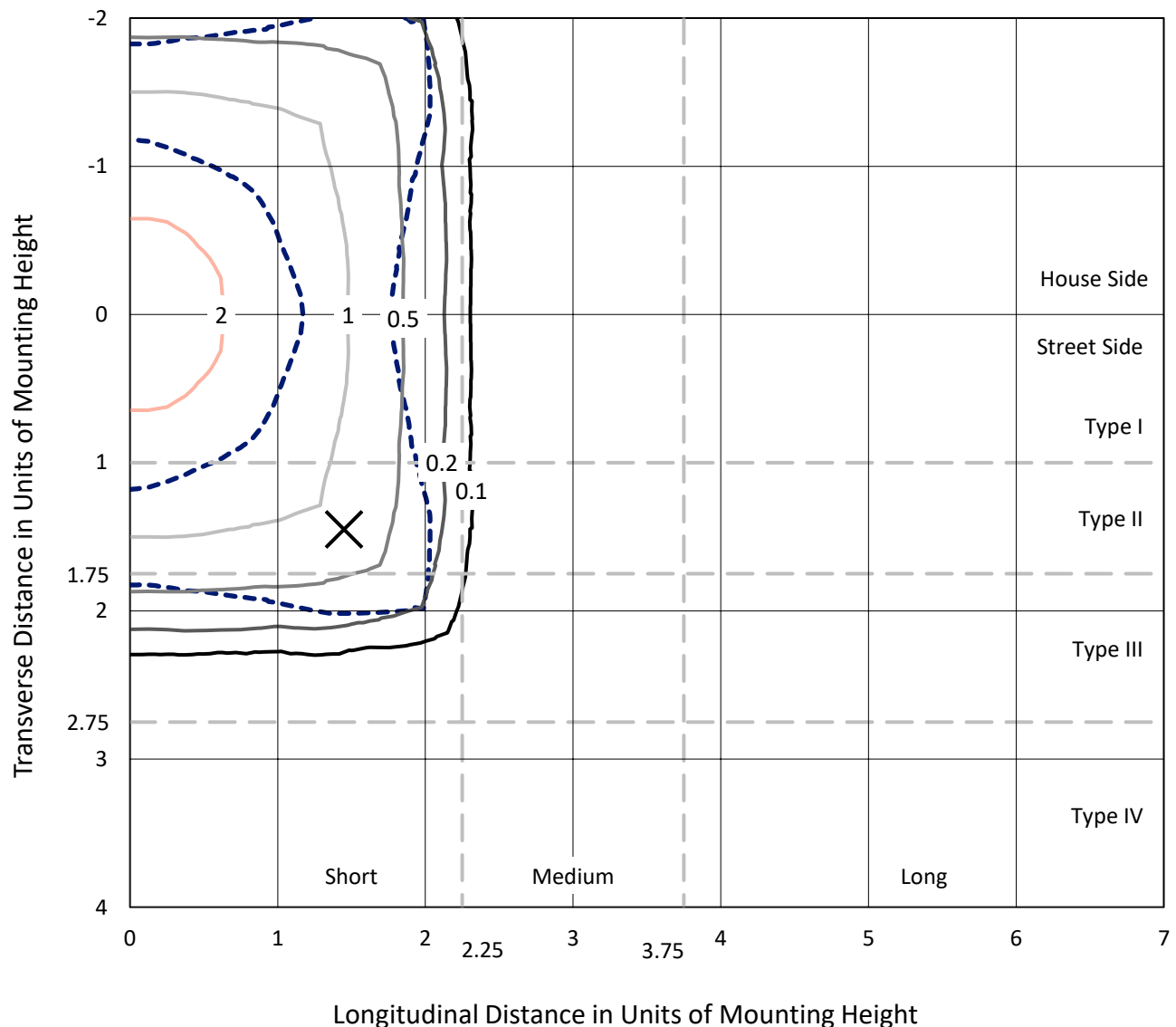


REPORT NUMBER: P451757

CATALOG NUMBER: GALN-SA2C-830-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

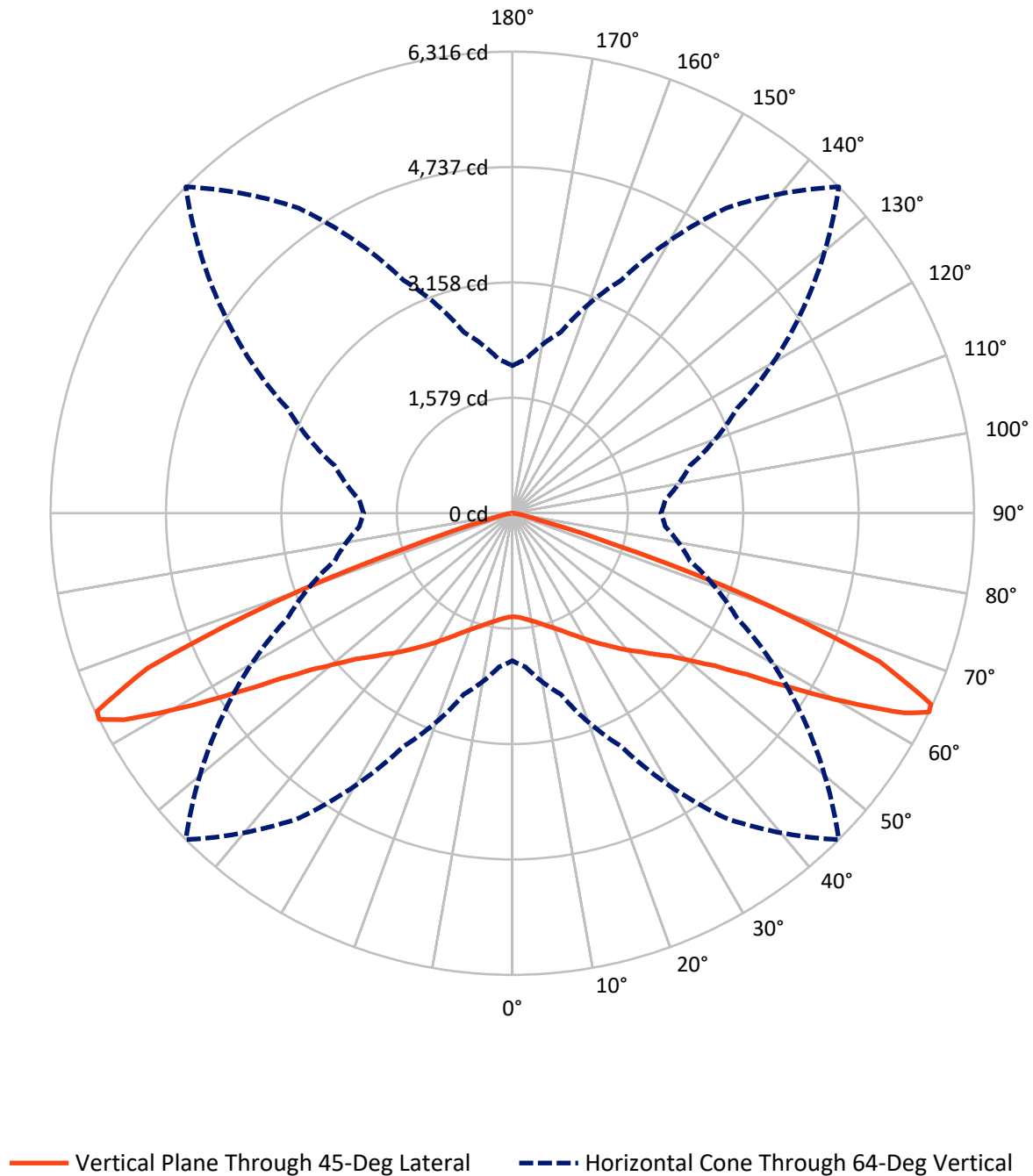


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type V - Short - N/A

REPORT NUMBER: P451757

CATALOG NUMBER: GALN-SA2C-830-U-5NQ

Luminous Intensity Polar Plot



REPORT NUMBER: P451757

CATALOG NUMBER: GALN-SA2C-830-U-5NQ

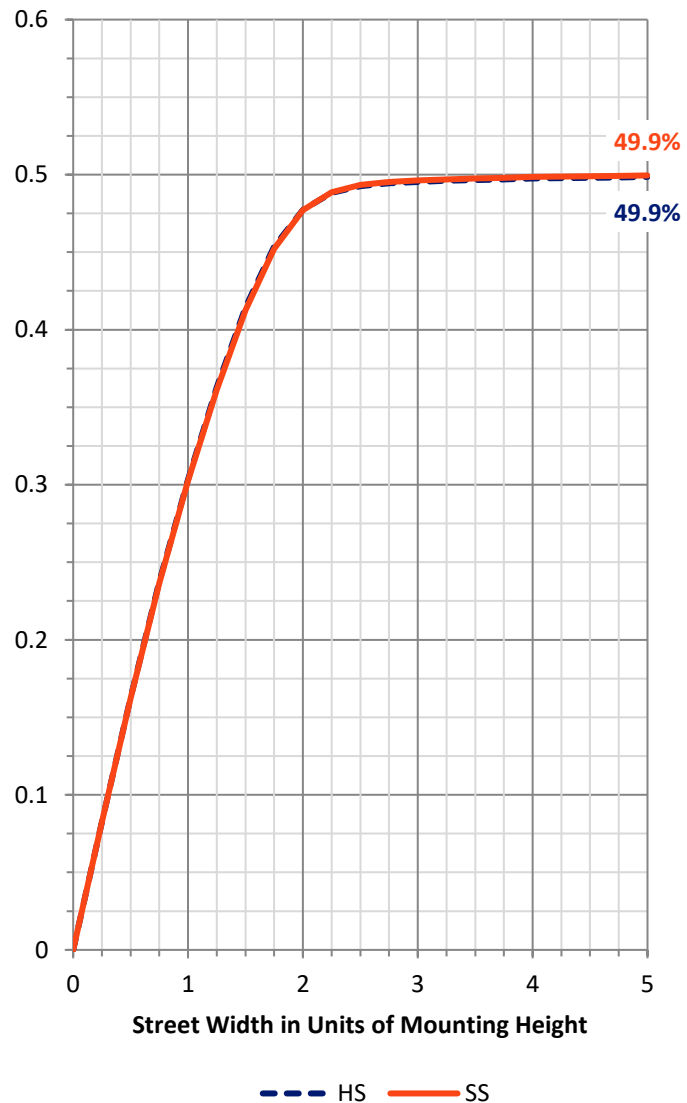
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5862.5	0.0	5862.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5862.5	0.0	5862.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11725.0	0.0	11725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	1.2
10°-20°	449.1	3.8
20°-30°	848.7	7.2
30°-40°	1405.5	12.0
40°-50°	2194.2	18.7
50°-60°	3392.2	28.9
60°-70°	2925.0	24.9
70°-80°	331.5	2.8
80°-90°	39.7	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°	11725.0	100.0
0°-180°	11725.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451757

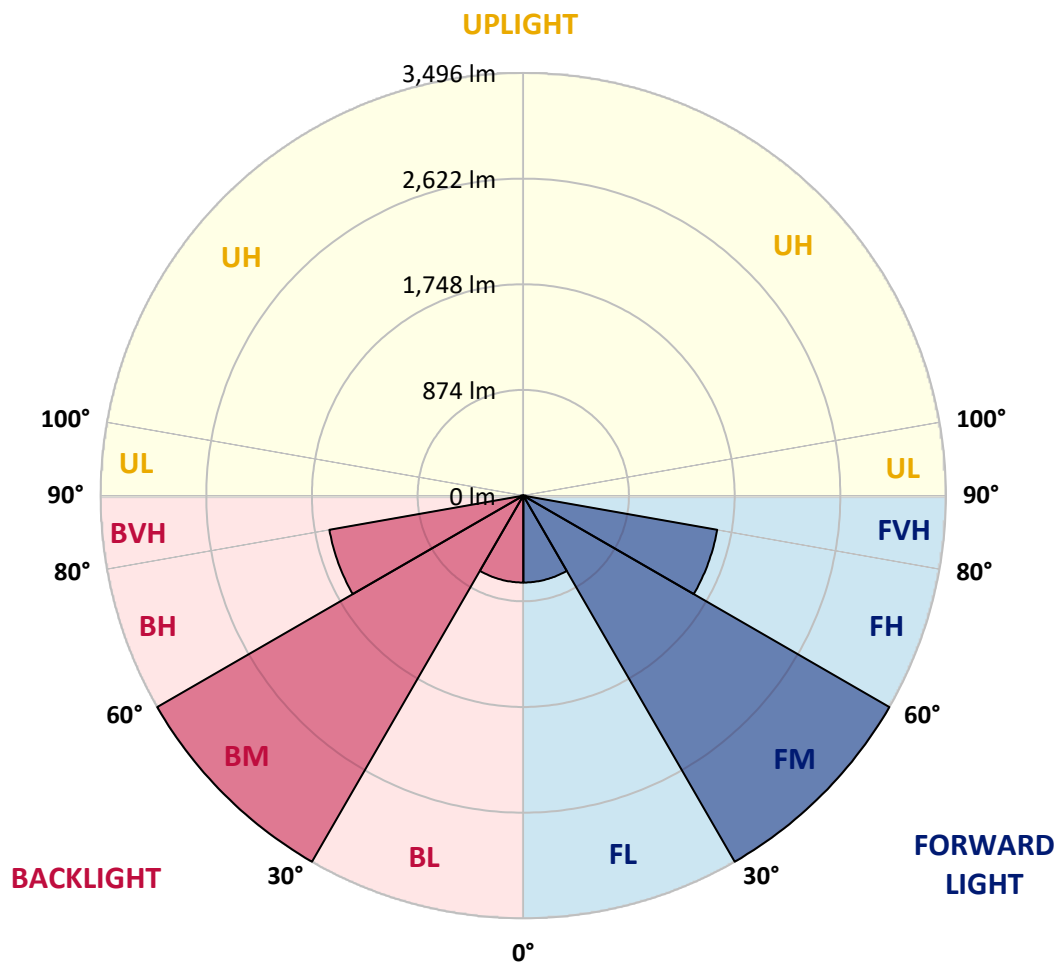
CATALOG NUMBER: GALN-SA2C-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	718.5	6.1			
FM	(30°-60°)	3495.9	29.8			
FH	(60°-80°)	1628.2	13.9			G1/1800
FVH	(80°-90°)	19.9	0.2			G1/100
BL	(0°-30°)	718.5	6.1	B2/1000		
BM	(30°-60°)	3495.9	29.8	B3/5000		
BH	(60°-80°)	1628.2	13.9	B3/2500		G1/1800
BVH	(80°-90°)	19.9	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





REPORT NUMBER: P451757

CATALOG NUMBER: GALN-SA2C-830-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2	1417.2
2.5°	1422.8	1425.9	1423.4	1422.8	1422.1	1422.1	1422.1	1422.8	1425.2	1427.1	1425.9
5°	1440.8	1443.2	1442.0	1441.4	1440.8	1441.4	1440.1	1439.5	1441.4	1441.4	1440.8
7.5°	1463.1	1466.2	1465.0	1466.2	1466.8	1467.5	1464.4	1461.9	1461.3	1463.1	1461.9
10°	1493.5	1496.0	1496.7	1497.3	1498.5	1497.9	1494.2	1489.8	1489.2	1488.6	1488.0
12.5°	1527.7	1529.6	1530.2	1532.7	1534.5	1535.2	1530.8	1527.1	1520.9	1522.1	1519.6
15°	1566.2	1569.9	1569.3	1573.0	1578.0	1579.2	1574.9	1568.7	1563.1	1560.0	1558.1
17.5°	1613.4	1615.9	1614.6	1618.4	1624.6	1627.7	1624.0	1615.9	1610.3	1603.5	1599.7
20°	1669.3	1673.6	1674.9	1674.9	1680.5	1683.6	1678.0	1675.5	1666.8	1661.8	1658.7
22.5°	1732.6	1734.5	1738.2	1742.0	1747.5	1746.3	1744.4	1740.7	1732.6	1728.3	1723.3
25°	1804.1	1805.9	1815.2	1823.3	1825.2	1823.9	1821.4	1819.6	1812.1	1802.2	1798.5
27.5°	1887.3	1891.0	1903.4	1910.9	1910.9	1911.5	1906.5	1912.7	1896.6	1884.8	1883.5
30°	1991.6	1994.1	2004.6	2012.1	2008.4	2005.3	2004.0	2010.2	1992.8	1971.7	1966.8
32.5°	2094.7	2103.4	2112.7	2128.9	2115.8	2110.2	2109.0	2113.3	2093.5	2069.9	2063.0
35°	2205.2	2211.4	2228.8	2242.5	2230.7	2217.7	2223.2	2236.9	2213.3	2181.6	2180.4
37.5°	2327.6	2333.2	2355.5	2369.8	2361.1	2338.8	2348.1	2364.2	2340.6	2301.5	2293.4
40°	2454.9	2466.7	2494.6	2509.5	2495.3	2465.4	2482.8	2500.2	2479.1	2433.8	2415.8
42.5°	2597.7	2616.3	2656.7	2664.2	2636.8	2596.5	2626.9	2654.9	2639.9	2587.8	2581.0
45°	2764.8	2776.0	2825.6	2841.8	2803.9	2753.6	2791.5	2842.4	2831.2	2771.0	2757.9
47.5°	2951.7	2962.3	3013.8	3038.0	2990.2	2922.5	2990.8	3057.3	3050.4	2985.9	2979.6
50°	3172.8	3175.3	3246.7	3274.0	3226.2	3167.8	3228.7	3311.3	3283.9	3201.3	3200.1
52.5°	3415.0	3418.1	3508.1	3560.9	3534.2	3468.4	3540.4	3590.7	3521.2	3413.1	3405.0
55°	3624.9	3640.4	3763.4	3903.7	3940.4	3892.5	3914.3	3890.7	3719.3	3567.7	3544.2
57.5°	3710.6	3741.0	3927.9	4190.0	4428.5	4499.3	4331.6	4106.8	3798.1	3583.9	3560.9
60°	3501.3	3534.2	3824.2	4321.7	4930.3	5237.7	4766.3	4143.4	3618.7	3317.5	3281.5
62.5°	2803.9	2813.2	3239.9	4011.8	5222.8	6018.9	4949.5	3831.1	3096.4	2687.1	2672.9
64°	2017.7	2113.3	2565.4	3517.4	5094.8	6316.4	4843.9	3393.2	2515.1	2100.9	2033.8
65°	1509.1	1535.2	2068.0	3003.9	4869.4	6294.0	4639.0	2974.7	2082.9	1607.8	1533.3
67.5°	570.1	573.2	763.2	1497.3	3466.5	5415.3	3540.4	1618.4	877.5	634.7	611.7
70°	236.6	241.0	280.1	503.6	1489.8	3477.1	1707.2	583.8	321.1	260.2	256.5
72.5°	173.3	175.7	187.5	223.6	458.3	1427.7	561.4	247.8	188.2	168.3	166.4
75°	136.0	137.2	145.9	164.6	213.6	395.6	233.5	170.2	143.5	129.2	127.9
77.5°	103.7	106.8	113.0	125.4	143.5	187.5	154.6	127.3	110.5	98.7	96.9
80°	71.4	75.1	86.9	91.9	96.3	121.7	105.6	96.3	86.3	72.0	67.7
82.5°	44.1	46.6	58.4	62.7	60.9	68.3	67.7	68.9	61.5	44.7	41.6
85°	23.0	24.2	31.7	32.9	30.4	27.9	34.8	40.4	37.9	25.5	24.8
87.5°	5.0	5.6	6.8	6.2	6.8	6.8	8.7	13.0	13.7	8.7	8.1
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)