

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: P451988

Luminaire Tested: **GALN-SA2D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12966 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 125
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

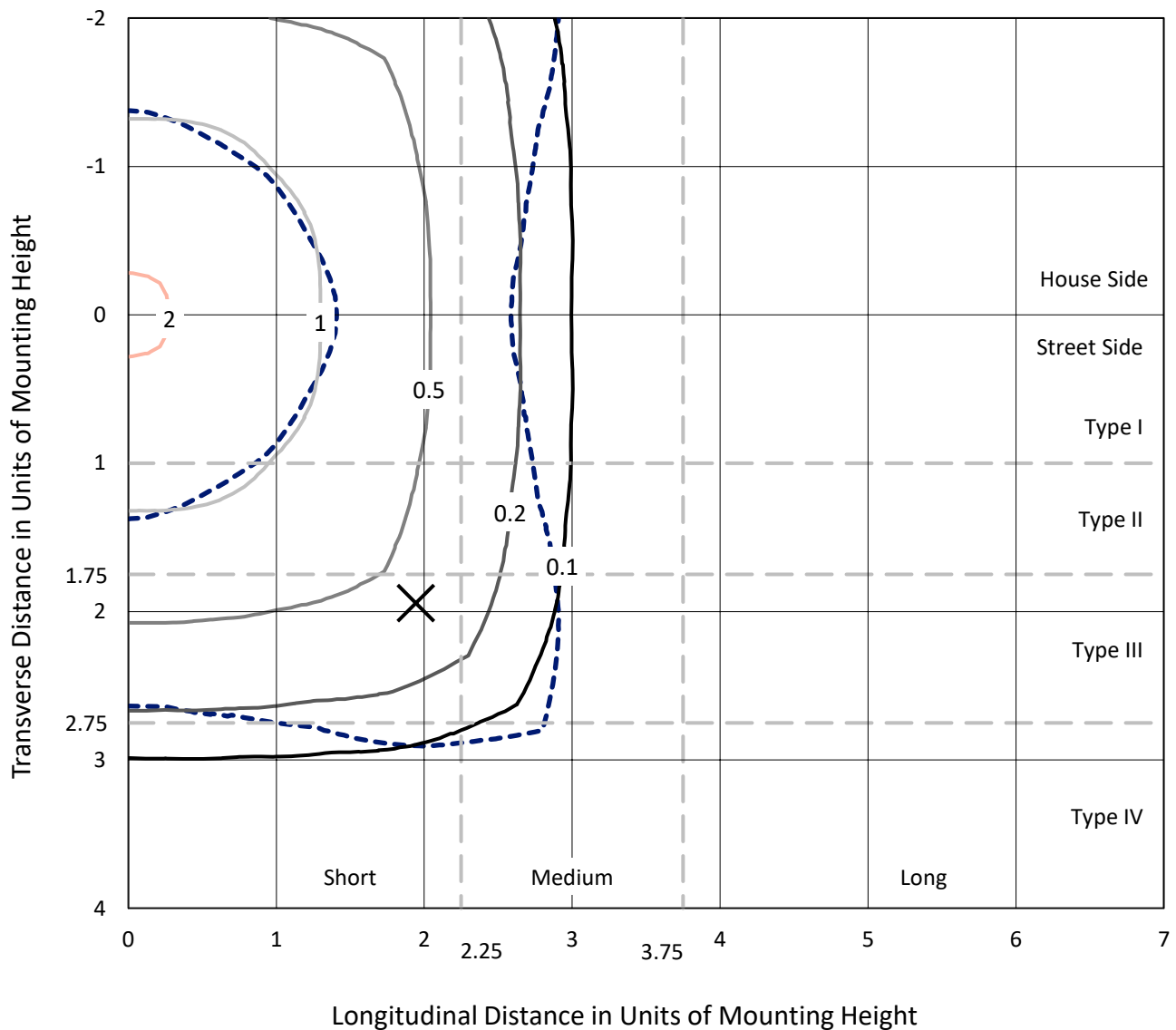


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

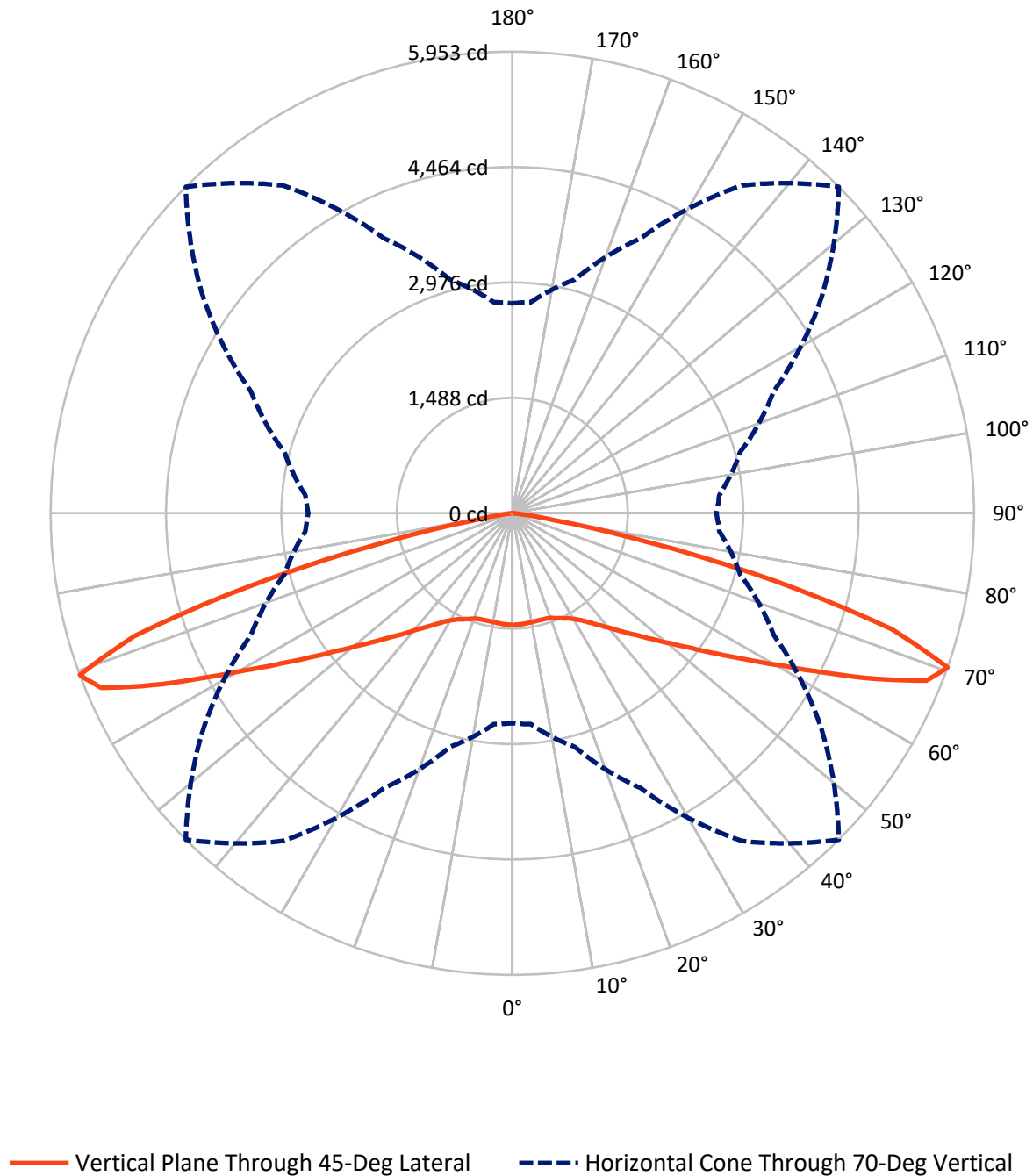


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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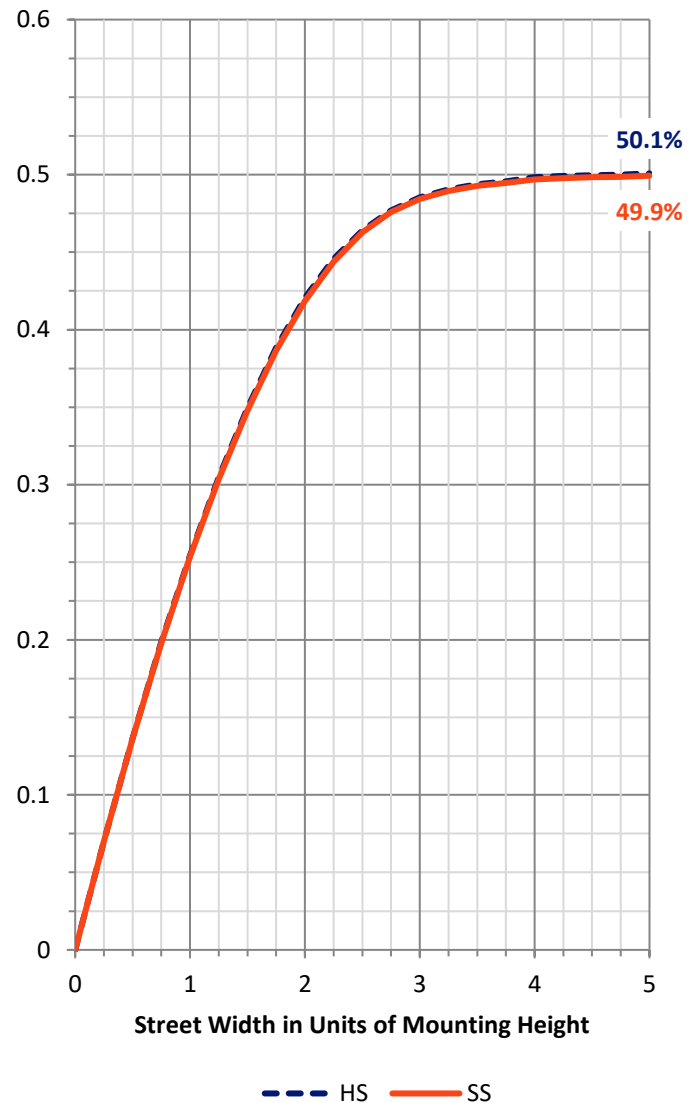
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6483.0	0.0	6483.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6483.0	0.0	6483.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12966.0	0.0	12966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	1.1
10°-20°	400.7	3.1
20°-30°	685.2	5.3
30°-40°	1087.6	8.4
40°-50°	1754.6	13.5
50°-60°	2854.8	22.0
60°-70°	4138.4	31.9
70°-80°	1835.7	14.2
80°-90°	72.4	0.6
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°	12966.0	100.0
0°-180°	12966.0	100.0

Coefficient of Utilization



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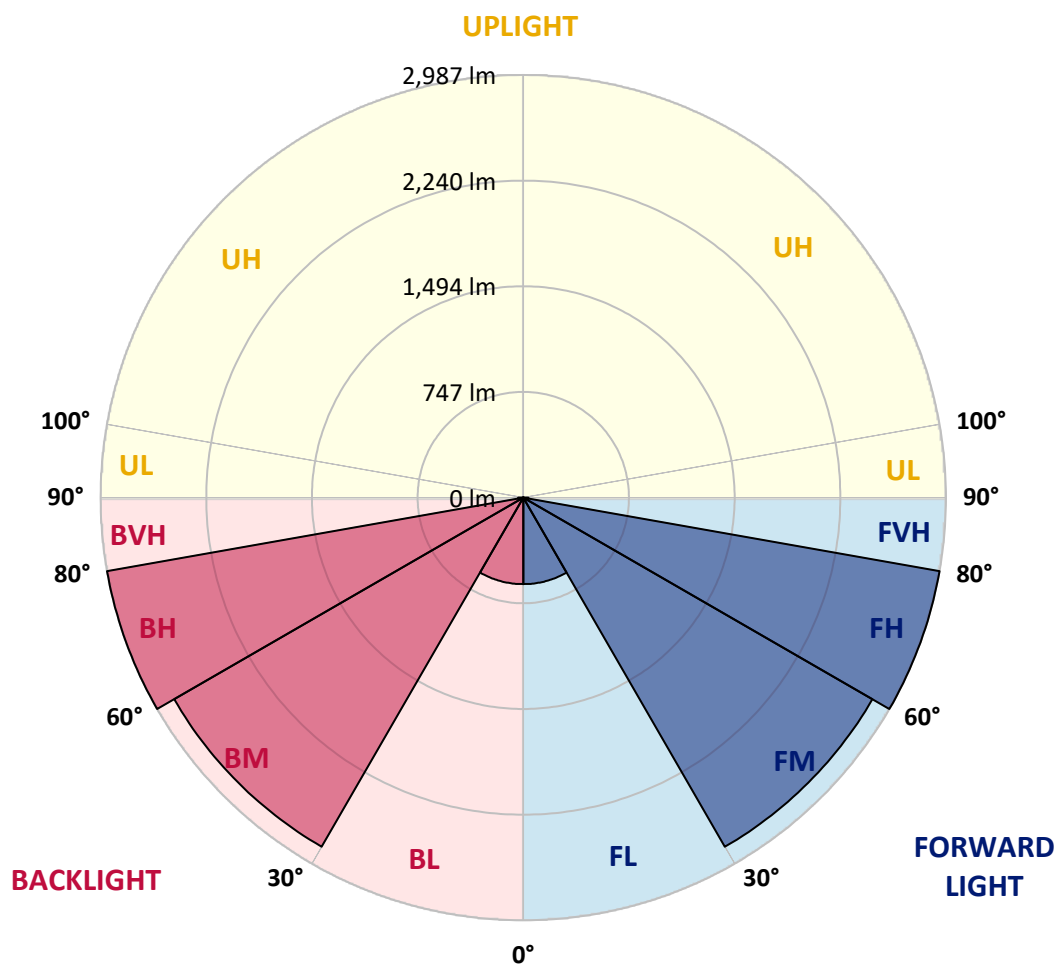
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	611.2	4.7			
FM	(30°-60°)	2848.5	22.0			
FH	(60°-80°)	2987.1	23.0			G2/5000
FVH	(80°-90°)	36.2	0.3			G1/100
BL	(0°-30°)	611.2	4.7	B2/1000		
BM	(30°-60°)	2848.5	22.0	B3/5000		
BH	(60°-80°)	2987.1	23.0	B4/5000		G2/5000
BVH	(80°-90°)	36.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8	1439.8
2.5°	1439.8	1441.2	1439.1	1437.8	1437.1	1437.1	1436.4	1437.1	1441.2	1441.9	1439.8
5°	1435.7	1437.1	1436.4	1435.0	1434.3	1434.3	1433.7	1433.0	1436.4	1437.8	1437.1
7.5°	1430.2	1430.9	1430.2	1429.6	1430.2	1429.6	1427.5	1426.1	1428.9	1428.9	1428.2
10°	1420.7	1422.0	1421.4	1422.0	1423.4	1423.4	1420.7	1417.9	1418.6	1417.3	1417.3
12.5°	1409.1	1411.1	1411.8	1414.5	1417.9	1422.0	1415.9	1409.7	1408.4	1407.7	1407.0
15°	1401.5	1403.6	1406.3	1409.1	1415.2	1424.1	1415.2	1405.6	1402.9	1400.2	1398.8
17.5°	1399.5	1402.2	1406.3	1410.4	1418.6	1427.5	1420.0	1410.4	1403.6	1399.5	1398.1
20°	1405.0	1407.0	1413.2	1420.7	1432.3	1441.2	1433.7	1423.4	1413.2	1407.0	1405.0
22.5°	1415.9	1419.3	1426.8	1440.5	1456.9	1469.9	1459.6	1442.5	1426.1	1417.9	1415.2
25°	1439.8	1442.5	1451.4	1469.9	1489.0	1501.3	1490.4	1470.6	1448.0	1437.1	1433.7
27.5°	1476.0	1480.1	1489.7	1511.6	1527.3	1534.1	1526.6	1512.9	1496.5	1484.9	1482.2
30°	1527.3	1532.1	1546.4	1569.6	1579.9	1584.0	1580.6	1571.7	1560.1	1547.8	1545.0
32.5°	1596.3	1599.0	1615.4	1637.3	1646.9	1648.2	1644.1	1640.0	1620.9	1600.4	1599.0
35°	1673.5	1678.3	1698.1	1724.1	1733.0	1733.7	1725.5	1719.3	1696.8	1680.4	1680.4
37.5°	1776.0	1778.1	1797.2	1826.6	1836.2	1833.4	1829.3	1823.9	1799.9	1778.8	1779.4
40°	1896.3	1900.4	1916.8	1951.0	1951.0	1947.5	1950.3	1946.2	1922.3	1901.8	1902.4
42.5°	2039.1	2041.2	2061.0	2097.2	2094.5	2087.6	2090.4	2084.9	2069.9	2046.6	2038.4
45°	2191.5	2199.7	2233.9	2268.7	2263.2	2241.4	2252.3	2250.9	2237.3	2202.4	2204.5
47.5°	2375.3	2389.0	2421.8	2463.5	2457.3	2423.2	2435.5	2443.7	2424.5	2386.2	2379.4
50°	2582.4	2591.3	2639.8	2678.7	2673.3	2637.0	2665.1	2666.4	2618.6	2564.6	2564.6
52.5°	2803.1	2812.0	2877.6	2938.4	2941.8	2889.2	2911.7	2910.4	2832.5	2761.4	2747.7
55°	3050.5	3054.6	3139.3	3228.8	3248.0	3196.7	3199.4	3172.1	3071.0	2988.3	2980.8
57.5°	3306.0	3321.1	3414.7	3530.9	3587.6	3556.1	3541.8	3468.7	3371.0	3276.0	3271.2
60°	3588.9	3589.6	3711.3	3848.6	3963.4	3984.6	3925.8	3828.1	3701.7	3576.0	3570.5
62.5°	3785.1	3814.4	3968.2	4200.5	4406.2	4525.1	4370.0	4165.0	3916.3	3713.3	3692.8
65°	3825.4	3845.2	4079.6	4473.2	4893.5	5149.7	4790.9	4355.0	3930.6	3660.0	3646.3
67.5°	3499.4	3520.6	3836.3	4440.4	5235.1	5760.6	5064.3	4263.4	3687.3	3352.5	3325.9
70°	2706.7	2730.7	3120.8	3908.7	5159.3	5952.6	4869.5	3718.8	3040.9	2679.4	2630.9
72.5°	1439.1	1527.3	1860.8	2682.8	4187.6	5125.1	3992.8	2713.6	1961.2	1603.1	1538.9
75°	525.5	536.4	722.3	1189.7	2436.1	3514.5	2529.8	1294.3	744.2	574.7	545.3
77.5°	217.3	216.6	237.8	359.4	884.9	1799.9	987.4	379.9	237.1	219.4	216.6
80°	128.5	128.5	141.5	149.7	233.0	543.3	260.4	169.5	142.1	129.8	131.9
82.5°	57.4	60.8	89.5	94.3	112.8	149.0	125.7	108.0	92.9	64.2	58.1
85°	31.4	27.3	47.2	49.2	54.0	55.4	59.5	58.8	54.0	31.4	32.1
87.5°	6.2	7.5	13.7	10.3	11.6	10.3	13.7	19.1	19.8	10.9	8.9
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)