

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P630489

Luminaire Tested: GWS-SA1D-827-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-827-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3738.1 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

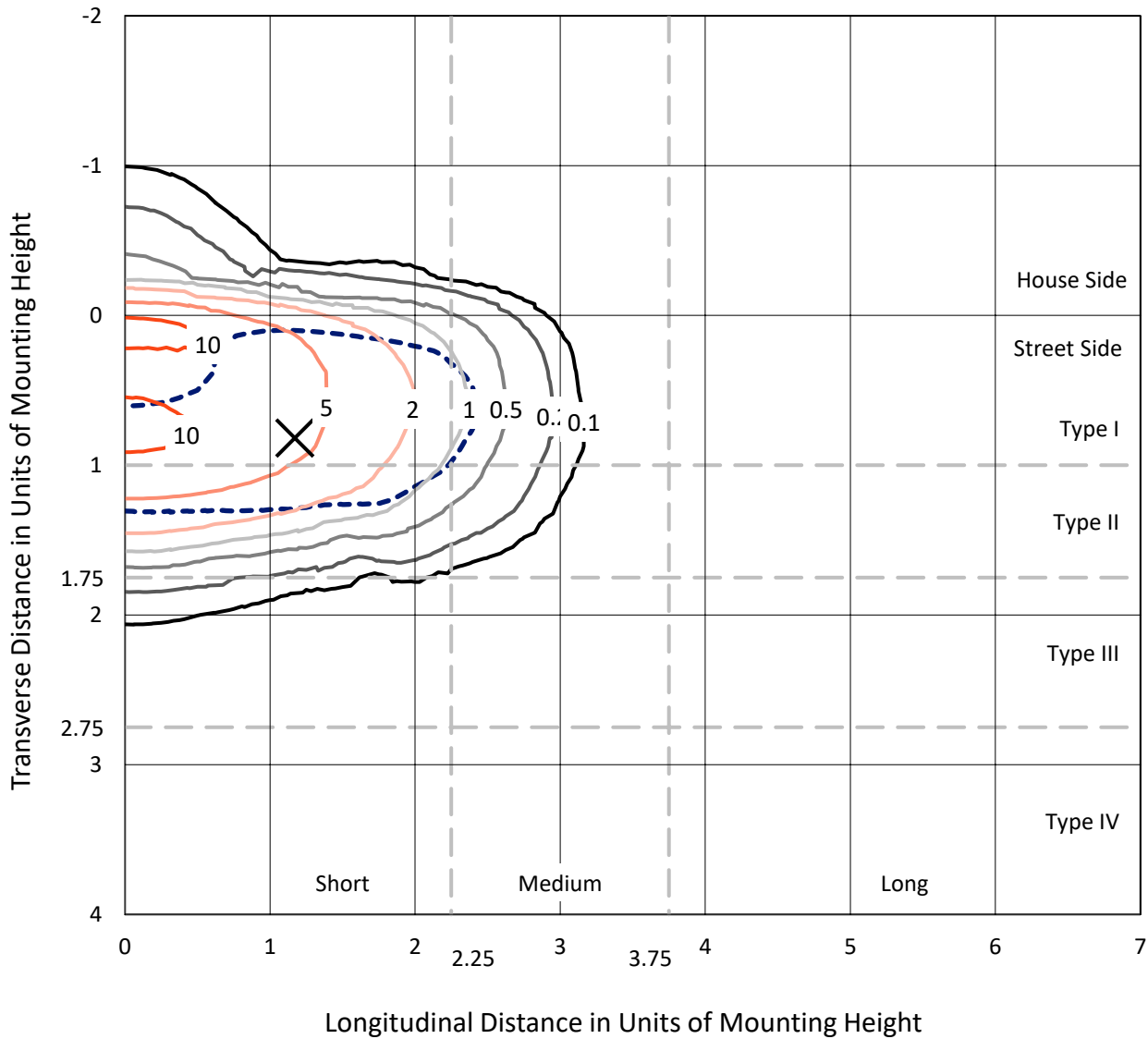
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

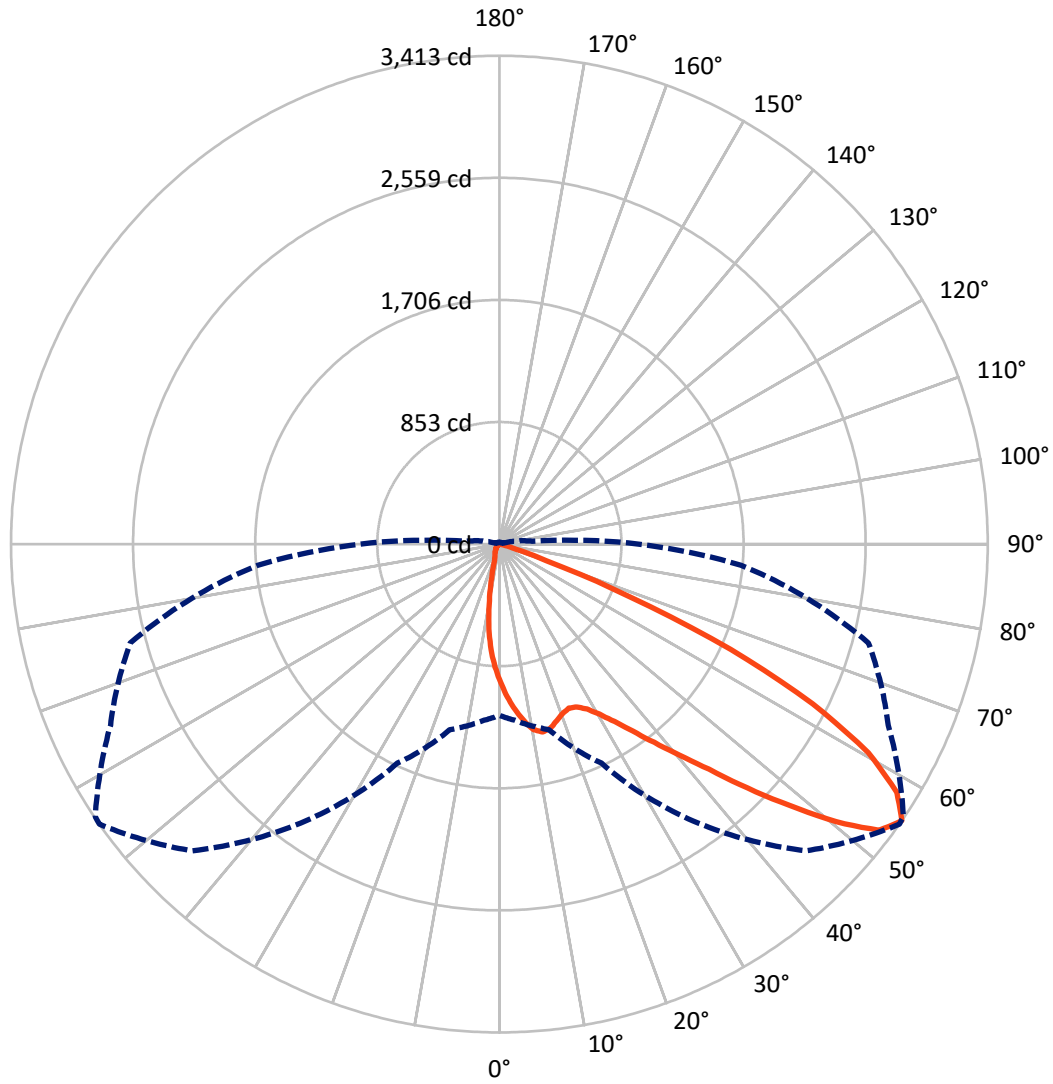
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	230.7	0.0	230.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3507.4	0.0	3507.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	3738.1	0.0	3738.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	2.3
10°-20°	205.8	5.5
20°-30°	342.7	9.2
30°-40°	583.9	15.6
40°-50°	953.2	25.5
50°-60°	997.9	26.7
60°-70°	503.3	13.5
70°-80°	63.6	1.7
80°-90°	2.4	0.1
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°	3738.1	100.0
0°-180°	3738.1	100.0

Coefficient of Utilization



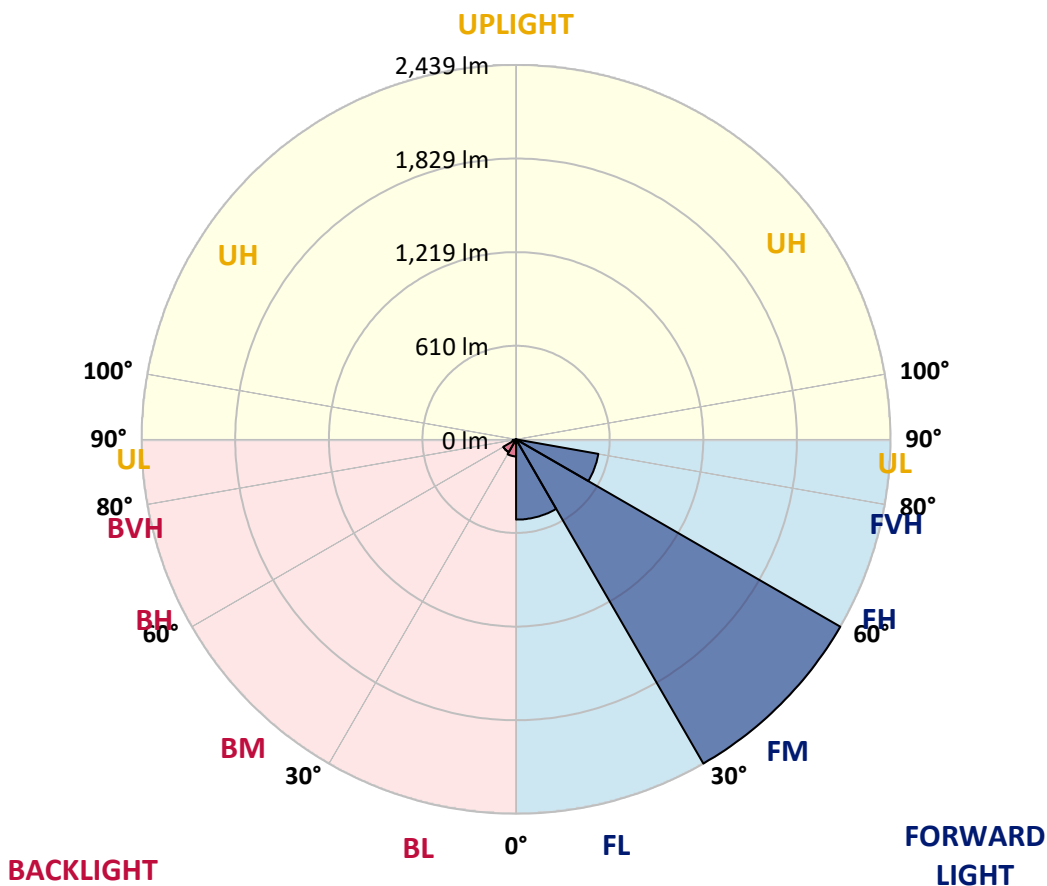
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.9	14.0			
FM (30°-60°)	2438.6	65.2			
FH (60°-80°)	543.8	14.5			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	110.9	3.0	B1/500		
BM (30°-60°)	96.4	2.6	B0/220		
BH (60°-80°)	23.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	1125.8	1120.4	1128.7	1119.1	1102.8	1089.1	1071.2	1064.8	1036.0	1008.8	982.6
5°	1262.6	1264.2	1261.6	1248.2	1225.2	1199.6	1163.5	1155.5	1105.4	1053.6	997.7
7.5°	1296.4	1295.5	1300.9	1306.0	1302.2	1289.4	1250.1	1242.1	1179.8	1102.2	1020.7
10°	1192.0	1192.6	1203.8	1238.3	1281.1	1325.5	1319.5	1315.0	1253.9	1157.1	1046.2
12.5°	1044.3	1050.1	1061.9	1111.1	1183.6	1284.6	1347.3	1351.7	1322.0	1217.5	1076.3
15°	980.4	981.7	991.3	1021.0	1075.0	1199.6	1335.4	1347.9	1378.9	1278.2	1108.9
17.5°	978.8	980.4	984.6	997.7	1032.8	1132.8	1297.4	1319.1	1421.7	1343.4	1147.9
20°	1038.9	1037.9	1035.1	1028.0	1043.4	1110.8	1262.3	1286.2	1445.0	1407.0	1187.2
22.5°	1147.9	1146.6	1133.8	1104.7	1092.3	1130.9	1245.0	1266.7	1459.1	1463.6	1219.4
25°	1273.4	1282.4	1258.4	1214.3	1183.6	1182.4	1260.3	1275.7	1471.2	1513.7	1241.5
27.5°	1411.2	1414.0	1393.6	1344.1	1299.6	1264.8	1304.8	1316.3	1484.7	1558.5	1253.9
30°	1562.3	1561.4	1538.0	1480.5	1426.5	1376.3	1379.5	1384.0	1516.0	1609.6	1267.7
32.5°	1751.2	1755.3	1713.8	1635.5	1570.6	1501.3	1477.3	1478.0	1572.5	1675.4	1288.5
35°	2007.8	1997.6	1942.6	1831.1	1720.5	1645.7	1604.8	1601.3	1659.8	1764.0	1324.6
37.5°	2252.2	2253.2	2195.7	2073.0	1933.3	1815.4	1757.6	1748.0	1782.5	1886.7	1384.6
40°	2421.9	2425.1	2401.2	2336.9	2189.0	2022.2	1937.2	1927.3	1941.6	2042.0	1463.3
42.5°	2511.7	2520.7	2527.4	2542.4	2430.2	2280.4	2149.7	2148.7	2133.7	2219.0	1554.3
45°	2515.2	2528.7	2569.6	2672.1	2684.9	2575.0	2432.8	2411.4	2353.5	2408.5	1635.8
47.5°	2376.2	2407.2	2494.2	2697.4	2831.6	2868.0	2727.1	2714.0	2551.7	2558.4	1696.9
50°	2052.2	2084.5	2244.6	2568.0	2868.7	3100.7	3050.2	3023.0	2717.2	2657.4	1726.3
52.5°	1719.9	1749.3	1857.9	2259.9	2715.0	3173.9	3322.5	3290.2	2865.8	2692.0	1714.1
55°	1196.7	1236.1	1342.1	1689.2	2360.9	3031.3	3412.6	3405.9	2998.4	2670.2	1695.3
57.5°	586.7	625.7	731.5	1041.4	1748.9	2646.6	3274.8	3310.3	3077.7	2646.9	1679.9
60°	245.1	261.1	297.5	457.0	978.5	2000.1	2963.9	3013.1	3029.1	2615.3	1678.3
62.5°	142.2	144.8	148.6	189.5	380.6	1146.6	2458.7	2528.7	2773.8	2573.4	1653.1
65°	107.4	108.3	106.7	116.3	157.2	434.9	1776.4	1871.7	2315.2	2409.8	1553.4
67.5°	88.2	88.2	84.0	86.0	98.7	163.0	980.7	1113.7	1713.2	1980.6	1282.7
70°	70.3	71.9	70.0	67.4	70.6	90.1	349.0	432.7	997.7	1169.6	748.1
72.5°	53.4	53.4	56.6	54.6	52.4	56.6	121.8	136.8	400.4	487.6	270.0
75°	41.2	42.5	44.7	42.8	39.6	33.6	58.5	62.0	120.8	113.4	60.4
77.5°	21.1	21.4	28.4	31.3	29.4	20.5	25.6	28.1	39.3	35.2	22.4
80°	12.8	13.4	16.0	24.6	19.5	10.9	10.5	11.2	18.5	16.0	9.3
82.5°	5.4	5.8	8.9	8.9	8.0	4.2	4.2	4.2	8.9	8.3	3.8
85°	0.0	0.0	1.6	1.3	1.3	1.6	1.6	1.6	2.2	3.2	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	965.7	945.3	917.8	892.8	859.3	840.4	814.2	792.8	774.6	768.9	766.3
5°	966.0	930.9	872.1	813.3	741.1	684.2	625.7	579.4	541.3	529.2	526.0
7.5°	972.4	920.6	825.4	718.7	597.9	498.2	409.0	329.1	292.1	279.6	277.1
10°	981.0	912.0	771.4	605.2	431.7	303.6	215.1	163.9	139.6	126.2	128.1
12.5°	992.2	905.0	711.7	482.5	285.7	166.8	118.2	99.1	94.0	91.4	90.1
15°	1007.2	896.7	637.5	360.8	175.1	107.4	91.1	86.0	84.0	82.8	82.4
17.5°	1022.6	887.1	562.1	253.7	116.3	89.2	81.8	79.3	78.0	77.0	76.7
20°	1038.9	870.8	473.6	174.8	91.7	80.2	75.4	72.5	70.9	69.3	69.0
22.5°	1045.9	844.6	388.9	122.4	81.5	73.8	67.7	64.2	62.3	61.0	61.0
25°	1039.2	802.1	301.3	93.0	74.1	66.8	60.7	56.9	55.3	54.0	54.0
27.5°	1021.3	747.4	219.9	77.0	66.1	59.4	53.7	50.2	48.9	48.3	48.3
30°	1001.5	678.4	155.0	66.1	57.2	51.8	47.0	44.7	44.4	43.8	43.8
32.5°	984.6	613.9	106.7	58.2	50.5	45.1	41.9	40.9	41.2	40.6	40.9
35°	975.3	550.6	79.3	51.8	45.1	39.9	38.3	38.3	38.3	38.0	38.0
37.5°	979.1	488.3	64.6	47.3	40.3	36.4	34.8	35.5	36.1	36.1	36.1
40°	998.3	433.0	57.2	43.1	36.1	33.2	32.0	32.9	33.9	34.5	34.5
42.5°	1022.6	388.3	51.8	39.6	33.2	30.0	29.4	30.4	31.3	32.0	32.0
45°	1037.9	343.2	46.3	35.2	30.4	26.5	26.5	27.8	27.5	27.8	27.8
47.5°	1045.0	307.4	40.9	30.4	25.9	23.0	23.3	24.0	23.3	24.0	24.0
50°	1027.7	271.3	36.1	25.2	21.4	20.1	20.8	20.5	20.5	21.7	21.7
52.5°	996.1	244.5	32.0	21.4	18.2	17.9	18.5	17.3	17.6	17.6	17.3
55°	972.7	229.1	28.4	18.5	15.7	16.0	15.7	13.4	12.1	10.9	10.5
57.5°	961.2	223.1	25.9	16.6	14.1	14.1	12.8	9.3	7.0	5.4	4.8
60°	958.7	215.7	23.3	14.4	12.5	11.8	9.3	5.4	3.5	2.6	2.2
62.5°	934.4	197.8	21.1	11.5	10.9	9.6	5.8	3.2	1.9	1.3	1.0
65°	854.8	162.7	18.9	8.9	8.3	7.0	3.5	1.9	1.0	0.3	0.0
67.5°	680.0	115.4	16.6	6.7	5.8	4.5	2.2	1.3	0.3	0.0	0.0
70°	392.1	62.3	13.7	4.8	3.8	2.9	1.6	0.6	0.0	0.0	0.0
72.5°	131.0	29.1	10.5	3.2	2.9	2.2	1.0	0.3	0.0	0.0	0.0
75°	28.8	17.3	7.0	2.2	1.9	1.6	0.6	0.0	0.0	0.0	0.0
77.5°	10.9	12.1	3.5	1.6	1.3	1.0	0.3	0.0	0.0	0.0	0.0
80°	4.2	8.0	1.6	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	3.2	1.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.3	1.6	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)