

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: P631283

Luminaire Tested: GWS-SA1F-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-735-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

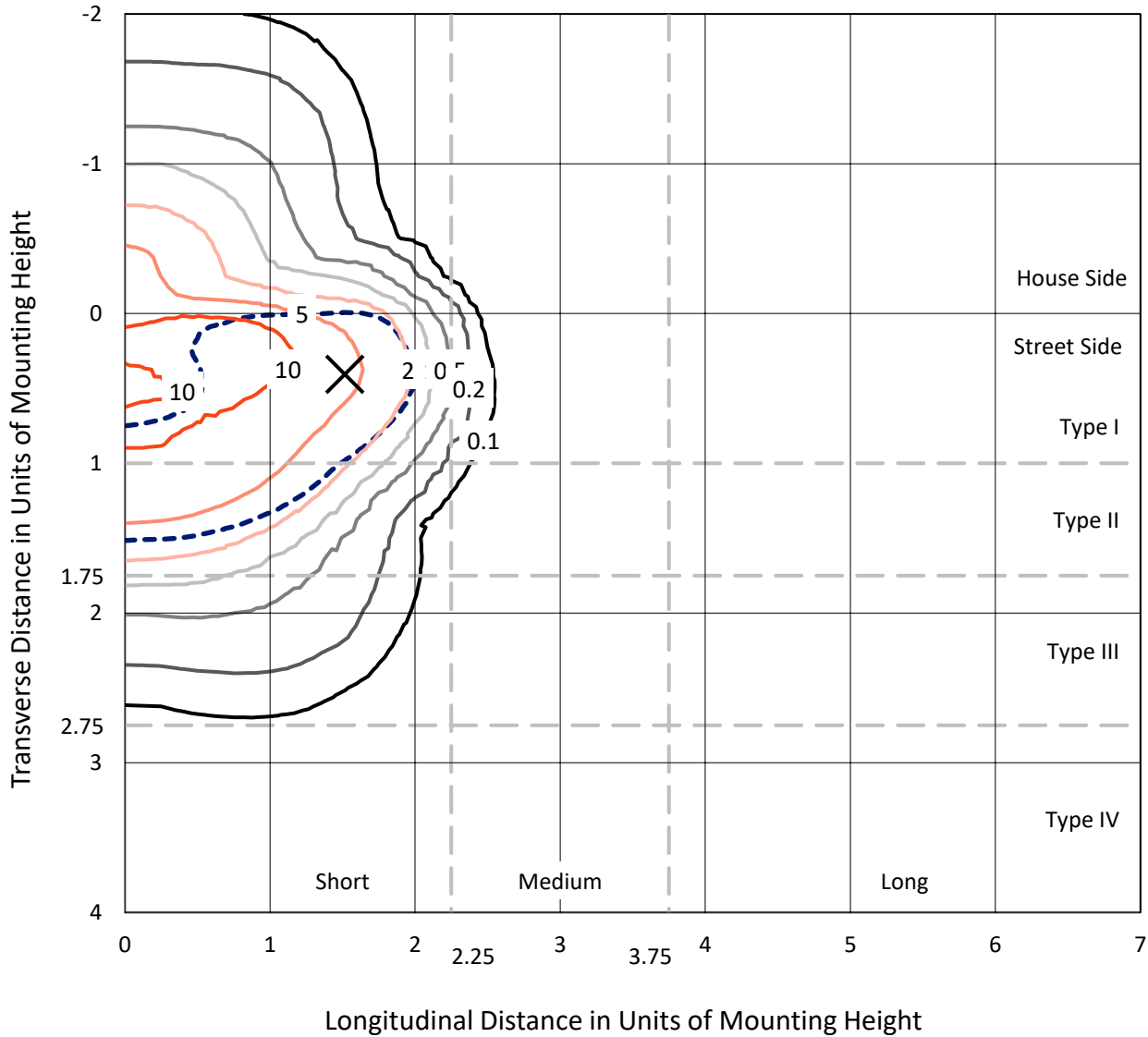
Lumens per Lamp: N/A  
Luminaire Lumens: 4935.8 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

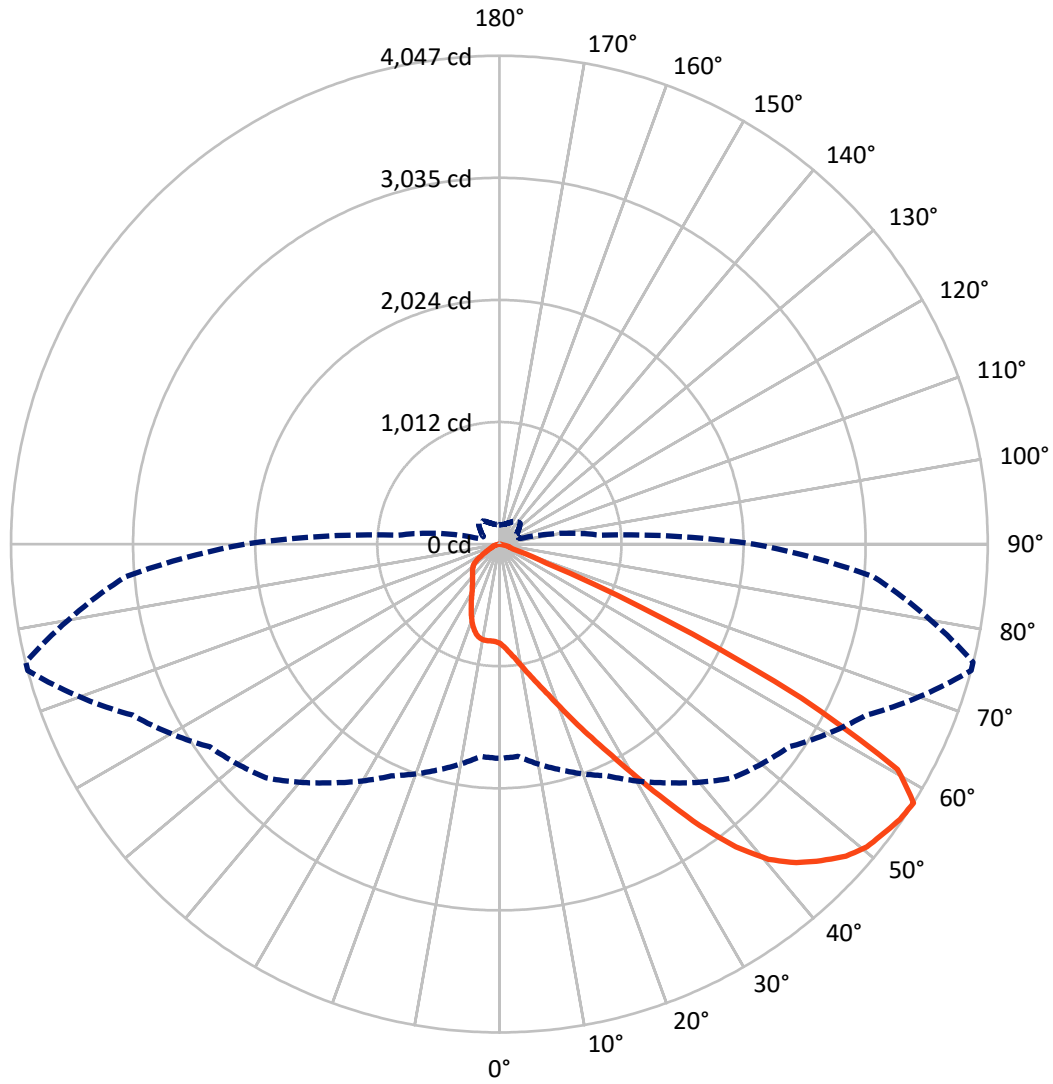
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	806.3	0.0	806.3
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	4129.5	0.0	4129.5
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	4935.8	0.0	4935.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	1.7
10°-20°	272.1	5.5
20°-30°	498.3	10.1
30°-40°	826.8	16.8
40°-50°	1262.7	25.6
50°-60°	1418.8	28.7
60°-70°	523.3	10.6
70°-80°	50.0	1.0
80°-90°	0.0	0.0
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°	4935.8	100.0
0°-180°	4935.8	100.0

**Coefficient of Utilization**



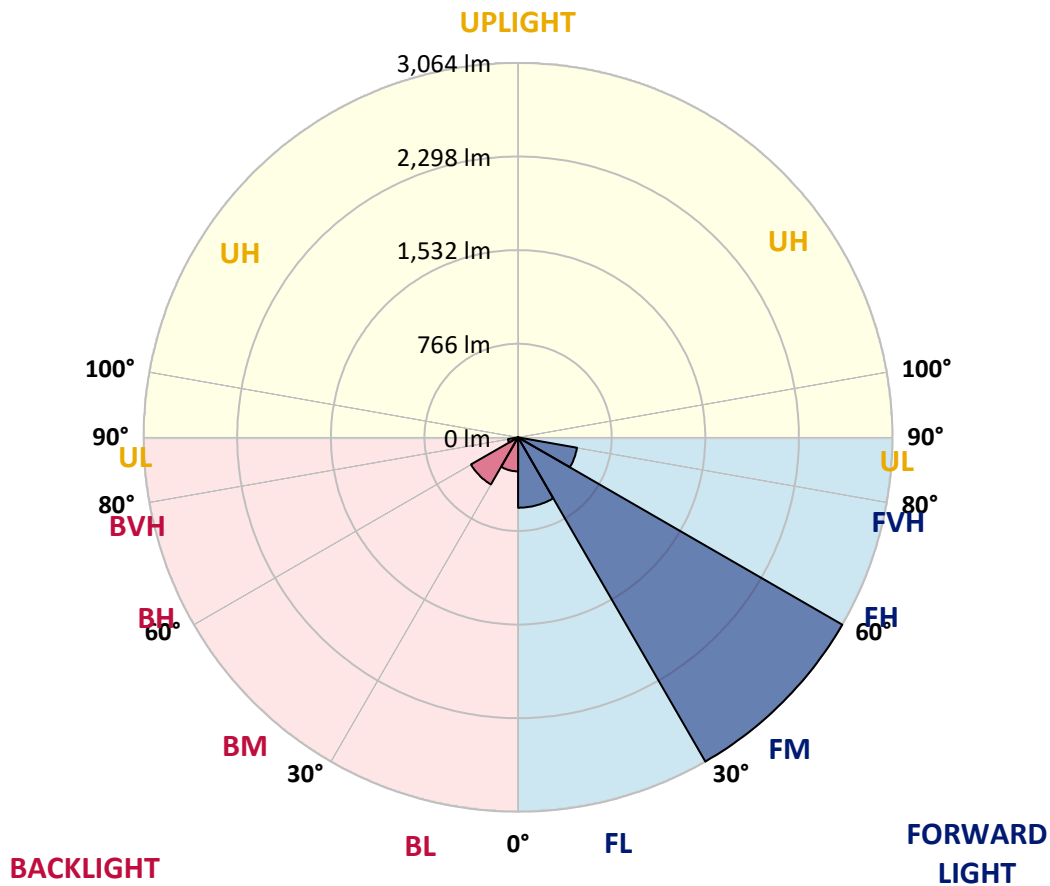
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.0	11.7			
FM (30°-60°)	3063.9	62.1			
FH (60°-80°)	489.6	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	278.2	5.6	B1/500		
BM (30°-60°)	444.3	9.0	B1/1000		
BH (60°-80°)	83.7	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	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°	65°	75°	76°	85°
0°	823.2	823.2	823.2	823.2	823.2	823.2	823.2	823.2	823.2	823.2	823.2
2.5°	919.7	929.3	926.3	920.3	916.7	904.2	896.5	873.9	857.8	856.0	841.1
5°	1035.9	1034.1	1031.7	1024.6	1018.6	998.9	975.7	937.6	903.6	899.5	867.9
7.5°	1099.6	1100.8	1102.0	1100.8	1096.6	1081.7	1056.1	1011.5	959.6	956.1	906.0
10°	1125.8	1128.2	1134.2	1145.5	1155.6	1154.4	1139.5	1093.7	1029.9	1024.0	956.7
12.5°	1138.3	1141.3	1150.8	1172.3	1199.7	1221.1	1223.5	1182.4	1112.1	1102.6	1016.8
15°	1155.6	1158.6	1170.5	1198.5	1238.4	1280.7	1308.1	1281.9	1203.3	1193.1	1082.9
17.5°	1163.4	1167.5	1184.8	1221.7	1273.6	1338.5	1400.4	1398.0	1311.1	1303.3	1159.8
20°	1178.2	1181.2	1196.7	1236.6	1299.2	1392.7	1496.9	1534.5	1442.7	1431.4	1252.7
22.5°	1225.3	1226.5	1233.6	1258.7	1317.0	1432.0	1595.2	1693.5	1598.2	1583.3	1356.9
25°	1302.1	1301.5	1304.5	1308.7	1351.6	1471.9	1689.9	1872.8	1776.3	1760.2	1474.9
27.5°	1399.8	1399.8	1407.0	1395.1	1412.3	1521.4	1783.5	2078.9	1983.6	1961.0	1604.2
30°	1514.8	1514.2	1530.9	1511.8	1517.2	1599.4	1884.1	2303.5	2233.8	2205.8	1753.1
32.5°	1670.9	1667.3	1686.4	1660.1	1642.3	1717.3	2006.8	2538.2	2533.4	2490.5	1940.1
35°	1868.0	1862.1	1868.0	1842.4	1810.3	1882.3	2167.7	2772.3	2865.8	2820.5	2162.9
37.5°	2064.0	2083.1	2089.6	2045.5	2019.3	2091.4	2361.3	2981.9	3183.3	3136.2	2394.6
40°	2295.1	2289.2	2311.8	2262.4	2245.7	2325.5	2550.7	3138.0	3434.7	3390.0	2600.7
42.5°	2465.5	2476.2	2504.2	2476.8	2463.7	2538.8	2709.7	3229.2	3609.2	3565.1	2747.8
45°	2669.8	2677.6	2688.3	2665.6	2651.9	2725.8	2824.7	3269.1	3742.0	3694.4	2846.7
47.5°	2890.8	2896.8	2896.8	2850.3	2806.2	2836.6	2901.5	3291.7	3864.1	3818.3	2920.0
50°	3049.3	3052.2	3078.4	3045.7	2949.8	2902.7	2936.7	3313.7	3945.2	3902.3	2943.8
52.5°	2908.7	2905.1	2991.5	3059.4	3085.0	2991.5	2997.4	3345.9	3984.5	3947.5	2962.9
55°	2449.4	2443.5	2565.0	2730.0	2955.7	3075.5	3070.7	3365.0	4028.0	4005.3	3032.0
57.5°	1775.7	1765.6	1934.8	2118.2	2414.3	2738.9	2929.5	3354.2	4047.0	4045.2	3112.4
60°	1067.4	1059.1	1218.8	1411.7	1640.5	1966.9	2283.2	3004.6	3792.1	3795.6	2903.3
62.5°	657.0	664.8	808.9	907.2	992.4	1090.7	1273.6	2021.1	2809.2	2832.4	2040.2
65°	442.0	447.9	581.4	705.3	705.3	576.6	495.0	966.2	1498.7	1459.4	965.0
67.5°	296.6	303.2	408.6	553.4	574.2	402.1	200.7	288.3	417.6	405.1	238.9
70°	174.5	181.7	272.2	379.4	418.2	280.0	134.0	122.1	118.5	115.0	92.9
72.5°	78.0	81.0	138.8	193.0	176.3	117.9	94.7	97.7	92.3	90.5	75.7
75°	23.8	25.0	35.7	41.7	42.3	42.3	57.2	76.8	72.7	73.3	58.4
77.5°	6.0	6.0	9.5	8.9	4.8	4.2	10.7	17.3	17.9	16.1	11.9
80°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	823.2	823.2	823.2	823.2	823.2	823.2	823.2	823.2	823.2	823.2	823.2
2.5°	834.5	819.1	808.9	794.6	784.5	773.8	764.3	756.5	752.3	751.1	751.7
5°	853.6	829.2	805.4	778.0	758.9	741.0	726.7	715.4	710.0	708.3	708.3
7.5°	882.8	848.8	806.5	763.7	731.5	703.5	686.8	674.3	669.5	668.3	664.8
10°	920.9	874.5	804.8	738.0	692.8	663.6	651.7	648.1	649.9	650.5	649.9
12.5°	966.8	901.3	793.4	700.5	651.7	633.8	635.0	644.5	655.2	660.6	661.8
15°	1015.6	925.7	767.8	655.8	616.5	615.9	633.2	655.2	676.1	685.0	687.4
17.5°	1070.4	945.3	728.5	608.2	586.1	603.4	634.4	668.3	696.3	711.2	714.2
20°	1130.6	961.4	678.5	563.5	559.3	590.3	633.2	674.9	709.4	726.1	729.1
22.5°	1193.1	972.7	620.7	522.4	534.9	575.4	621.9	662.4	695.2	714.2	716.6
25°	1264.6	973.9	561.7	487.9	512.3	555.2	594.5	627.8	655.2	671.9	673.7
27.5°	1327.2	959.6	509.3	459.9	491.4	530.2	556.4	574.8	593.9	603.4	604.0
30°	1399.2	934.6	459.9	437.2	470.0	499.2	512.3	516.5	518.2	520.0	517.6
32.5°	1485.0	904.2	422.9	415.2	445.6	465.2	468.8	460.5	450.3	436.0	432.5
35°	1590.5	876.8	392.5	393.7	418.8	430.7	427.7	409.8	390.2	372.9	369.9
37.5°	1704.8	853.6	369.3	372.9	389.6	397.9	389.0	369.3	360.4	345.5	346.1
40°	1806.1	834.5	348.5	352.0	359.8	367.5	353.2	340.1	356.8	355.6	356.8
42.5°	1878.2	818.5	330.6	328.8	334.2	339.5	328.8	322.3	350.3	342.5	346.7
45°	1920.5	803.6	315.7	305.0	313.3	322.9	315.7	307.4	316.9	281.2	278.2
47.5°	1949.0	795.2	302.6	281.8	296.6	313.3	298.4	278.2	264.5	233.5	231.1
50°	1952.0	791.1	287.1	257.9	277.0	294.9	277.6	249.6	229.9	216.2	214.4
52.5°	1967.5	799.4	265.7	227.5	248.4	277.0	265.1	237.1	210.3	198.4	196.0
55°	2036.6	834.5	229.9	185.9	216.2	263.3	254.9	211.5	185.9	178.7	176.9
57.5°	2108.1	841.7	181.1	147.1	188.2	243.6	232.9	194.8	169.8	161.4	159.6
60°	1927.6	693.4	135.8	121.5	166.2	225.2	215.6	184.7	155.5	145.3	143.6
62.5°	1266.4	374.7	107.8	103.1	140.0	190.6	196.6	166.8	138.8	128.1	127.5
65°	583.8	173.9	82.8	81.6	109.6	151.9	169.2	145.9	117.3	107.8	107.8
67.5°	159.0	86.4	64.9	60.2	74.5	101.9	123.3	109.0	83.4	72.1	71.5
70°	79.2	69.7	58.4	51.8	53.6	63.1	72.7	60.8	42.3	34.5	34.0
72.5°	64.9	57.2	49.4	44.1	40.5	38.7	37.5	30.4	19.7	14.9	14.3
75°	48.2	41.1	35.1	28.6	24.4	22.6	20.3	14.9	8.3	4.8	4.2
77.5°	10.7	10.1	9.5	7.1	6.6	5.4	4.2	3.0	1.2	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)