

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: P630788

Luminaire Tested: GWS-SA1E-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630788  
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-SA1E-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**

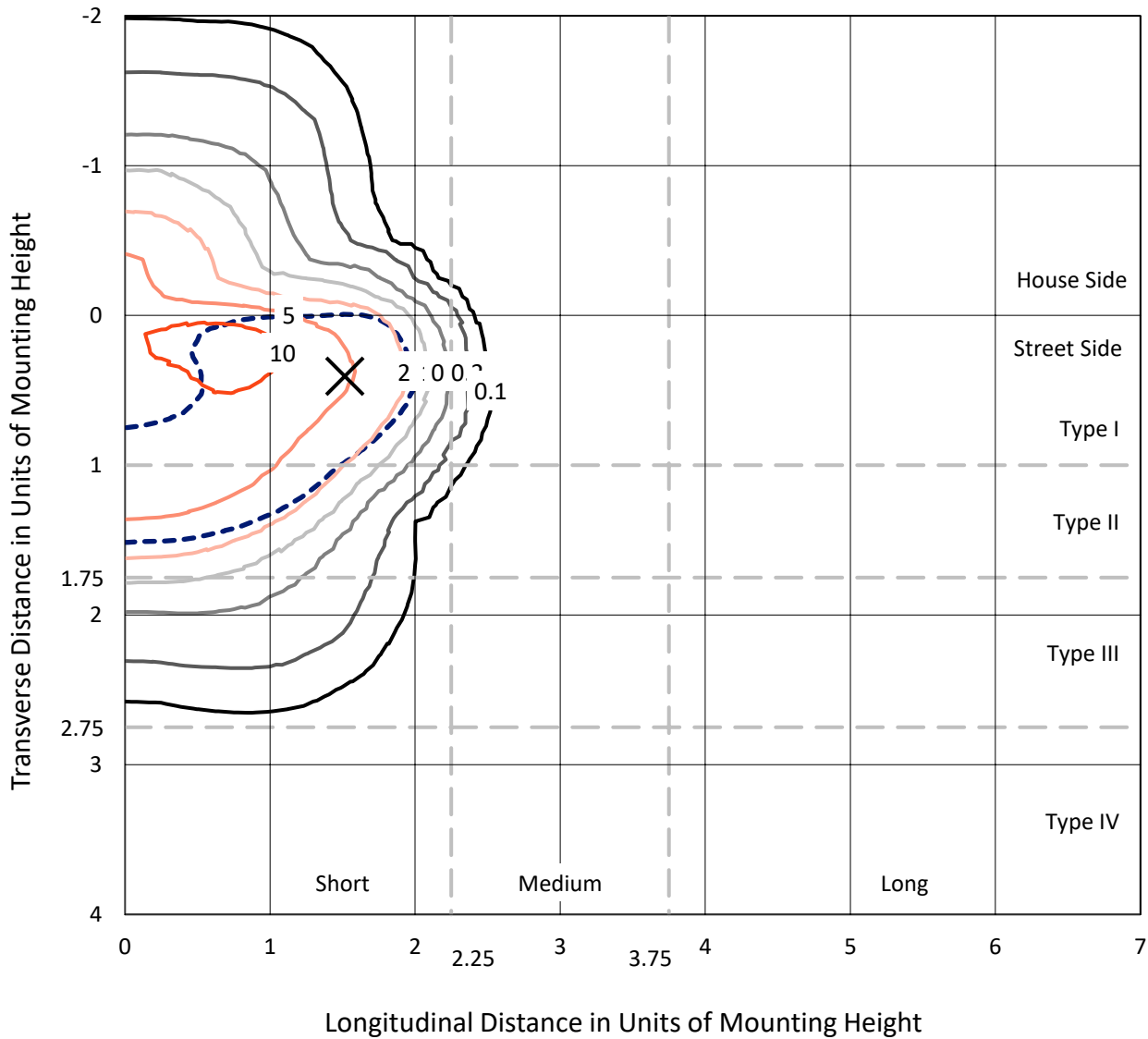
Lumens per Lamp: N/A  
Luminaire Lumens: 4439.4 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

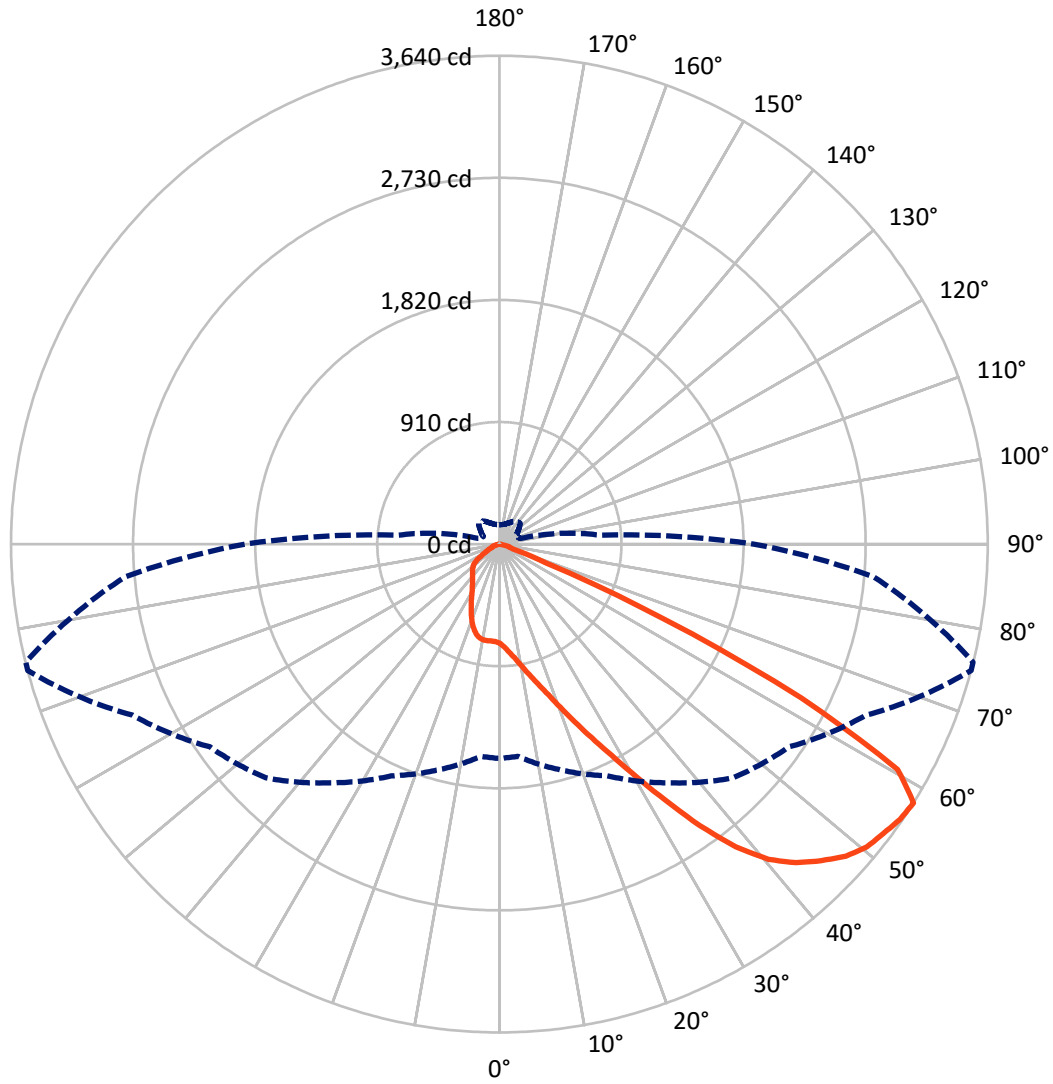
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 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	725.2	0.0	725.2
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	3714.2	0.0	3714.2
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	4439.4	0.0	4439.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	1.7
10°-20°	244.8	5.5
20°-30°	448.2	10.1
30°-40°	743.6	16.8
40°-50°	1135.7	25.6
50°-60°	1276.1	28.7
60°-70°	470.7	10.6
70°-80°	45.0	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°	4439.4	100.0
0°-180°	4439.4	100.0

**Coefficient of Utilization**



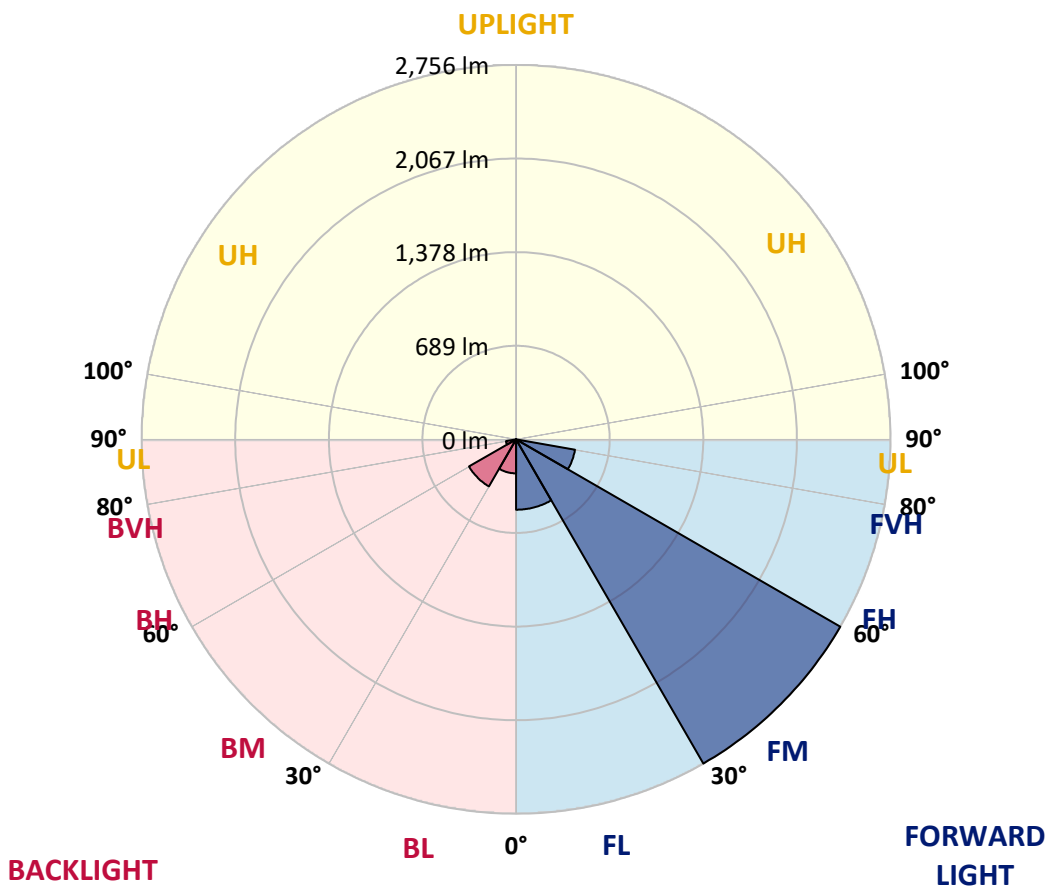
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.1	11.7			
FM (30°-60°)	2755.8	62.1			
FH (60°-80°)	440.4	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	250.2	5.6	B1/500		
BM (30°-60°)	399.6	9.0	B1/1000		
BH (60°-80°)	75.3	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°	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4
2.5°	827.2	835.8	833.1	827.8	824.5	813.3	806.3	786.0	771.5	769.9	756.5
5°	931.7	930.1	927.9	921.5	916.2	898.5	877.6	843.3	812.8	809.0	780.6
7.5°	989.0	990.1	991.2	990.1	986.3	973.0	949.9	909.7	863.1	859.9	814.9
10°	1012.6	1014.7	1020.1	1030.3	1039.4	1038.3	1024.9	983.7	926.3	921.0	860.4
12.5°	1023.9	1026.5	1035.1	1054.4	1079.0	1098.3	1100.5	1063.5	1000.3	991.7	914.6
15°	1039.4	1042.1	1052.8	1078.0	1113.9	1151.9	1176.5	1153.0	1082.2	1073.1	974.0
17.5°	1046.4	1050.1	1065.6	1098.9	1145.5	1203.9	1259.6	1257.4	1179.2	1172.3	1043.1
20°	1059.7	1062.4	1076.4	1112.3	1168.5	1252.6	1346.4	1380.1	1297.6	1287.4	1126.7
22.5°	1102.1	1103.1	1109.6	1132.1	1184.6	1288.0	1434.8	1523.2	1437.5	1424.1	1220.5
25°	1171.2	1170.7	1173.3	1177.1	1215.7	1323.9	1520.0	1684.5	1597.7	1583.2	1326.6
27.5°	1259.1	1259.1	1265.5	1254.8	1270.3	1368.3	1604.1	1869.8	1784.1	1763.7	1442.8
30°	1362.5	1361.9	1376.9	1359.8	1364.6	1438.5	1694.6	2071.8	2009.1	1983.9	1576.8
32.5°	1502.8	1499.6	1516.8	1493.2	1477.1	1544.6	1805.0	2282.9	2278.6	2240.0	1745.0
35°	1680.2	1674.8	1680.2	1657.1	1628.2	1693.0	1949.7	2493.5	2577.6	2536.9	1945.4
37.5°	1856.4	1873.6	1879.5	1839.8	1816.3	1881.1	2123.8	2682.1	2863.1	2820.8	2153.8
40°	2064.3	2059.0	2079.3	2034.8	2019.8	2091.6	2294.2	2822.4	3089.2	3049.1	2339.2
42.5°	2217.5	2227.2	2252.4	2227.7	2215.9	2283.4	2437.2	2904.4	3246.2	3206.6	2471.5
45°	2401.3	2408.3	2417.9	2397.6	2385.2	2451.7	2540.6	2940.3	3365.7	3322.8	2560.4
47.5°	2600.1	2605.4	2605.4	2563.6	2524.0	2551.3	2609.7	2960.6	3475.5	3434.3	2626.3
50°	2742.6	2745.3	2768.8	2739.4	2653.1	2610.8	2641.3	2980.5	3548.4	3509.8	2647.8
52.5°	2616.2	2612.9	2690.6	2751.7	2774.7	2690.6	2696.0	3009.4	3583.7	3550.5	2664.9
55°	2203.1	2197.7	2307.0	2455.4	2658.5	2766.2	2761.9	3026.5	3622.9	3602.5	2727.1
57.5°	1597.1	1588.0	1740.2	1905.2	2171.5	2463.5	2634.9	3016.9	3640.0	3638.4	2799.4
60°	960.1	952.6	1096.2	1269.8	1475.5	1769.1	2053.6	2702.4	3410.7	3413.9	2611.3
62.5°	591.0	597.9	727.6	816.0	892.6	981.0	1145.5	1817.9	2526.7	2547.6	1835.0
65°	397.5	402.9	522.9	634.3	634.3	518.6	445.2	869.0	1348.0	1312.6	867.9
67.5°	266.8	272.7	367.5	497.7	516.5	361.6	180.6	259.3	375.6	364.3	214.8
70°	157.0	163.4	244.8	341.3	376.1	251.8	120.5	109.8	106.6	103.4	83.6
72.5°	70.2	72.9	124.8	173.6	158.6	106.1	85.2	87.9	83.0	81.4	68.0
75°	21.4	22.5	32.1	37.5	38.0	38.0	51.4	69.1	65.4	65.9	52.5
77.5°	5.4	5.4	8.6	8.0	4.3	3.8	9.6	15.5	16.1	14.5	10.7
80°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
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°	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4	740.4
2.5°	750.6	736.7	727.6	714.7	705.6	696.0	687.4	680.4	676.7	675.6	676.1
5°	767.8	745.8	724.4	699.7	682.6	666.5	653.6	643.5	638.6	637.0	637.0
7.5°	794.0	763.5	725.4	686.9	657.9	632.7	617.7	606.5	602.2	601.1	597.9
10°	828.3	786.5	723.8	663.8	623.1	596.8	586.1	582.9	584.5	585.1	584.5
12.5°	869.5	810.6	713.6	630.1	586.1	570.1	571.1	579.7	589.3	594.2	595.2
15°	913.5	832.6	690.6	589.9	554.5	554.0	569.5	589.3	608.1	616.1	618.3
17.5°	962.8	850.3	655.2	547.0	527.2	542.7	570.6	601.1	626.3	639.7	642.4
20°	1016.9	864.7	610.2	506.8	503.1	530.9	569.5	607.0	638.1	653.1	655.8
22.5°	1073.1	874.9	558.3	469.9	481.1	517.6	559.3	595.8	625.2	642.4	644.5
25°	1137.4	876.0	505.2	438.8	460.8	499.3	534.7	564.7	589.3	604.3	606.0
27.5°	1193.7	863.1	458.1	413.6	442.0	476.8	500.4	517.0	534.2	542.7	543.3
30°	1258.5	840.6	413.6	393.3	422.7	449.0	460.8	464.5	466.1	467.7	465.6
32.5°	1335.7	813.3	380.4	373.4	400.8	418.4	421.6	414.1	405.0	392.2	389.0
35°	1430.5	788.6	353.1	354.1	376.6	387.4	384.7	368.6	350.9	335.4	332.7
37.5°	1533.4	767.8	332.2	335.4	350.4	357.9	349.9	332.2	324.1	310.7	311.3
40°	1624.4	750.6	313.4	316.6	323.6	330.6	317.7	305.9	320.9	319.9	320.9
42.5°	1689.3	736.1	297.4	295.7	300.6	305.4	295.7	289.8	315.0	308.1	311.8
45°	1727.3	722.7	284.0	274.3	281.8	290.4	284.0	276.5	285.0	252.9	250.2
47.5°	1753.0	715.2	272.2	253.4	266.8	281.8	268.4	250.2	237.9	210.0	207.9
50°	1755.7	711.5	258.2	232.0	249.1	265.2	249.7	224.5	206.8	194.5	192.9
52.5°	1769.6	719.0	239.0	204.7	223.4	249.1	238.4	213.2	189.1	178.4	176.3
55°	1831.8	750.6	206.8	167.2	194.5	236.8	229.3	190.2	167.2	160.7	159.1
57.5°	1896.1	757.0	162.9	132.3	169.3	219.1	209.5	175.2	152.7	145.2	143.6
60°	1733.7	623.6	122.2	109.3	149.5	202.5	193.9	166.1	139.8	130.7	129.1
62.5°	1139.0	337.0	97.0	92.7	125.9	171.4	176.8	150.0	124.8	115.2	114.7
65°	525.1	156.4	74.5	73.4	98.6	136.6	152.2	131.3	105.5	97.0	97.0
67.5°	143.0	77.7	58.4	54.1	67.0	91.6	110.9	98.0	75.0	64.8	64.3
70°	71.3	62.7	52.5	46.6	48.2	56.8	65.4	54.6	38.0	31.1	30.5
72.5°	58.4	51.4	44.5	39.6	36.4	34.8	33.8	27.3	17.7	13.4	12.9
75°	43.4	37.0	31.6	25.7	22.0	20.4	18.2	13.4	7.5	4.3	3.8
77.5°	9.6	9.1	8.6	6.4	5.9	4.8	3.8	2.7	1.1	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	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)