

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: P631947

Luminaire Tested: GWS-SA2B-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-760-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

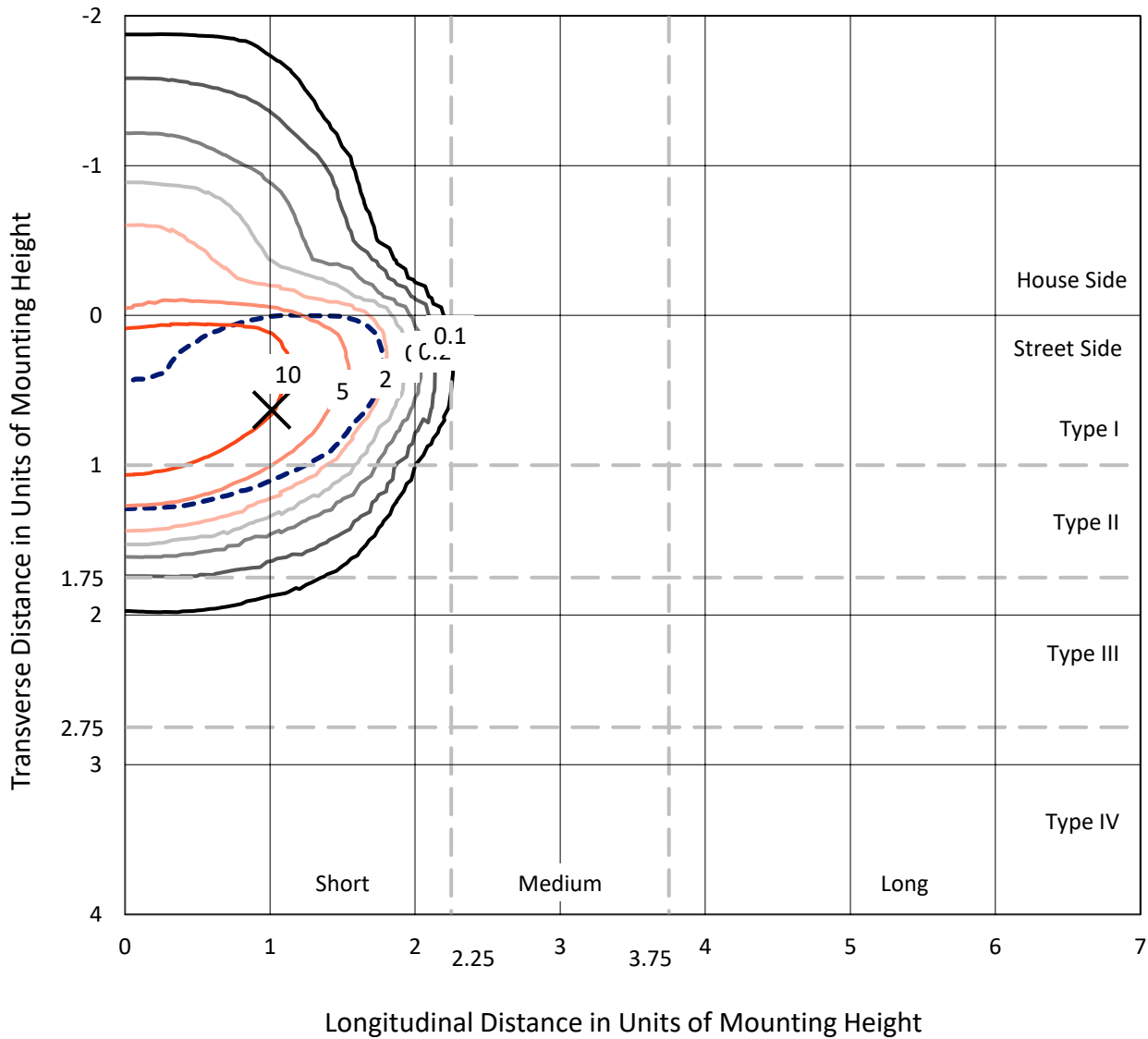
Lumens per Lamp: N/A  
Luminaire Lumens: 4667.4 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

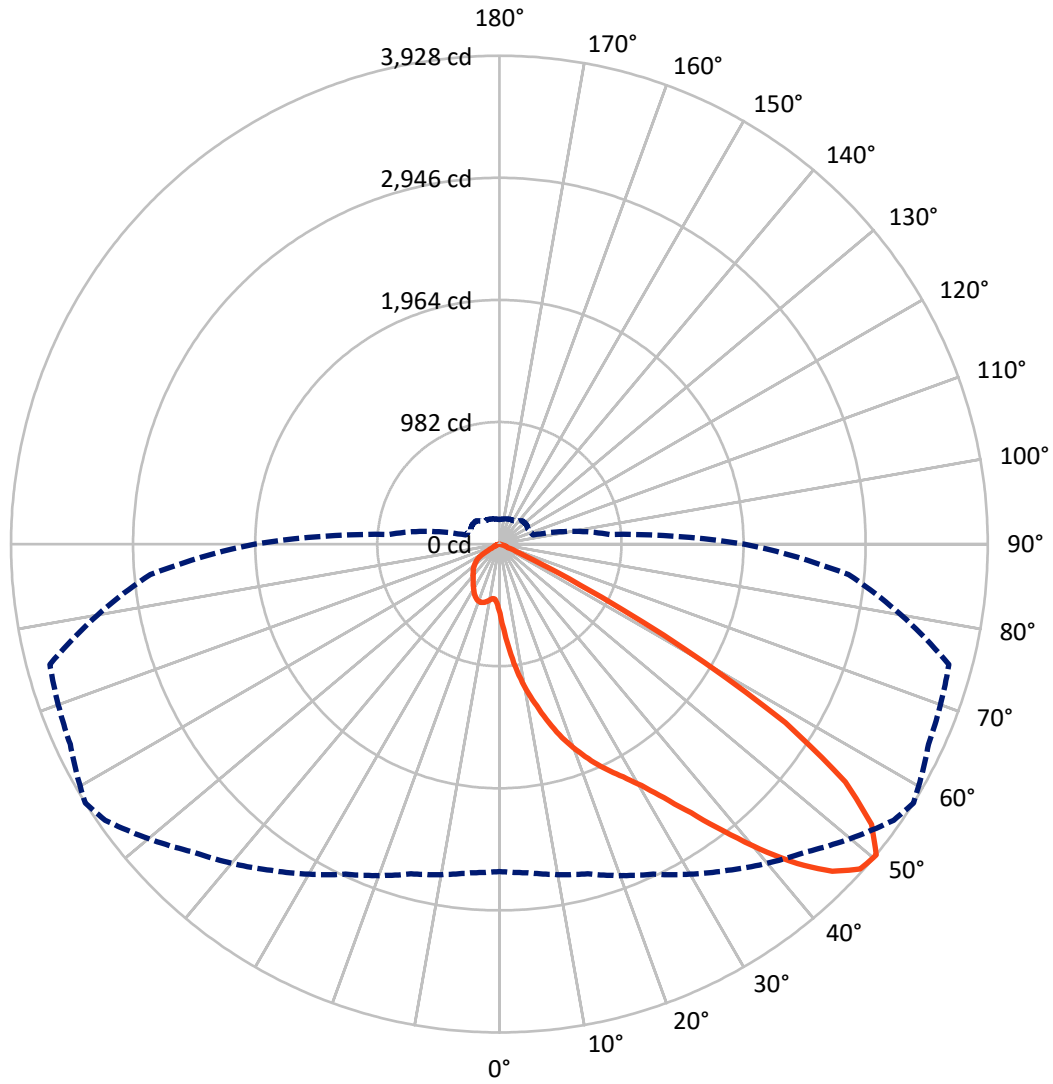
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	653.7	0.0	653.7
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	4013.7	0.0	4013.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	4667.4	0.0	4667.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	1.5
10°-20°	273.4	5.9
20°-30°	553.3	11.9
30°-40°	978.8	21.0
40°-50°	1426.9	30.6
50°-60°	1143.7	24.5
60°-70°	206.0	4.4
70°-80°	16.2	0.3
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°	4667.4	100.0
0°-180°	4667.4	100.0

**Coefficient of Utilization**



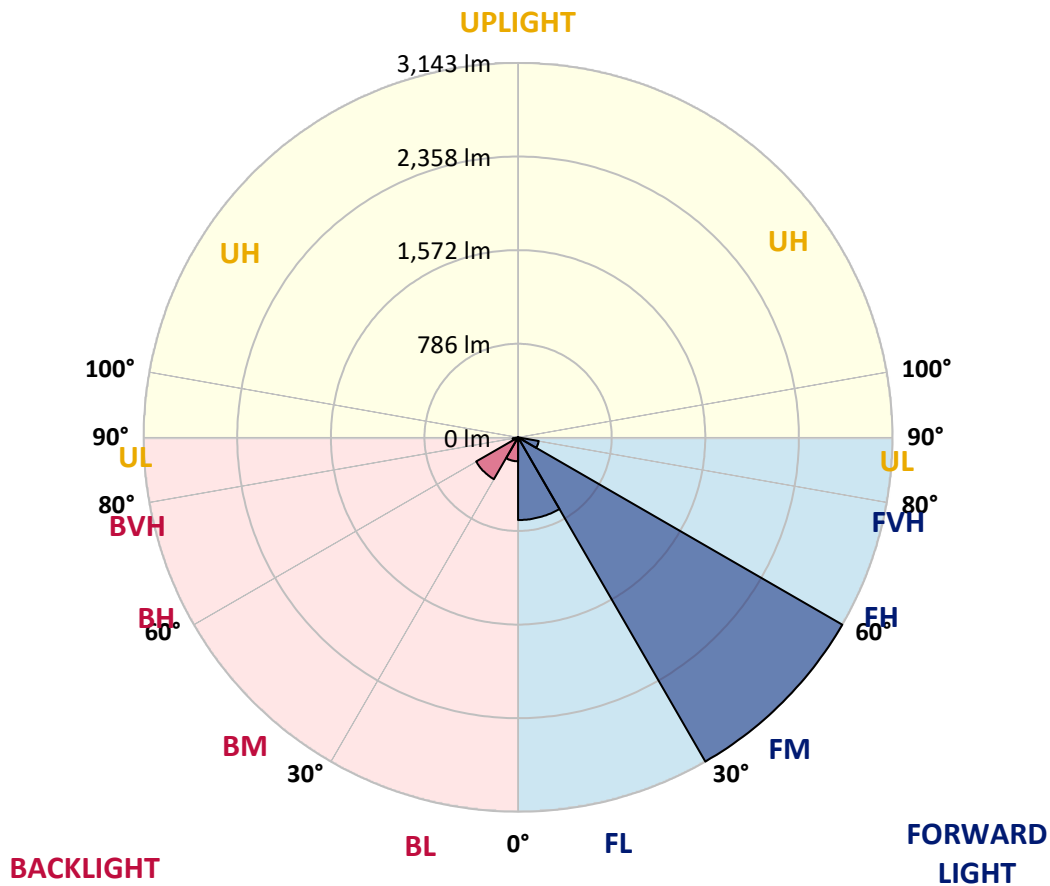
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.5	14.9			
FM (30°-60°)	3143.4	67.3			
FH (60°-80°)	175.8	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	201.3	4.3	B1/500		
BM (30°-60°)	406.0	8.7	B1/1000		
BH (60°-80°)	46.5	1.0	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°	58°	65°	75°	85°
0°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	825.0	812.1	804.6	798.6	772.1	730.2	702.8	688.3	664.3	623.9	589.0
5°	1076.6	1067.1	1049.6	1037.7	1003.7	944.3	882.9	858.5	804.1	712.7	630.9
7.5°	1243.3	1236.3	1229.8	1213.9	1181.9	1128.0	1060.1	1034.7	950.8	821.0	686.8
10°	1371.6	1366.1	1358.6	1358.1	1333.1	1284.7	1218.3	1191.9	1101.1	938.8	752.7
12.5°	1484.4	1479.9	1478.4	1492.4	1476.4	1440.4	1368.6	1335.6	1239.3	1059.1	825.5
15°	1561.7	1560.7	1567.2	1594.7	1603.7	1587.2	1526.8	1491.4	1380.6	1179.9	905.9
17.5°	1597.2	1600.2	1612.6	1660.1	1700.0	1714.0	1667.5	1637.6	1520.8	1302.2	991.7
20°	1657.6	1656.6	1664.1	1709.0	1757.9	1807.8	1793.8	1768.4	1662.6	1431.5	1087.1
22.5°	1827.8	1813.3	1797.3	1804.3	1821.8	1880.2	1906.1	1893.1	1808.8	1564.2	1185.4
25°	2089.3	2074.3	2022.9	1973.0	1940.1	1966.5	2002.0	2008.4	1954.0	1700.5	1288.2
27.5°	2366.8	2353.3	2295.4	2220.6	2126.2	2080.3	2106.8	2119.7	2096.8	1862.7	1397.5
30°	2626.8	2608.9	2545.5	2452.7	2343.4	2273.0	2243.0	2252.0	2265.5	2054.9	1525.8
32.5°	2852.4	2839.0	2763.1	2665.3	2560.0	2486.6	2416.7	2431.7	2464.6	2289.9	1690.0
35°	3043.6	3036.6	2956.3	2858.9	2747.6	2710.2	2650.3	2653.3	2686.2	2573.9	1890.2
37.5°	3209.8	3197.8	3125.0	3034.6	2946.3	2940.3	2923.8	2925.3	2942.3	2904.9	2120.2
40°	3314.6	3303.7	3251.7	3195.8	3133.0	3134.0	3219.3	3225.8	3206.3	3229.8	2363.3
42.5°	3354.1	3346.1	3318.1	3318.6	3312.1	3341.6	3501.8	3513.8	3443.9	3484.8	2570.9
45°	3285.7	3282.2	3284.2	3356.1	3433.9	3524.8	3732.9	3753.9	3655.0	3654.0	2733.2
47.5°	3065.1	3058.1	3116.5	3238.8	3418.9	3595.6	3872.6	3905.1	3802.8	3750.9	2835.0
50°	2632.8	2652.8	2745.1	2928.8	3202.8	3498.3	3871.1	3927.5	3808.3	3742.4	2818.0
52.5°	1907.1	1903.1	2105.3	2357.8	2691.2	3186.9	3665.5	3747.9	3675.0	3659.0	2780.1
55°	1037.7	1074.1	1210.4	1544.8	1961.0	2597.4	3195.8	3375.5	3459.9	3628.6	2848.5
57.5°	381.3	397.3	482.6	719.2	1038.2	1615.1	2441.2	2712.2	2972.7	3543.7	2837.0
60°	153.7	156.7	190.7	264.5	436.2	822.0	1464.4	1705.0	1950.5	2712.7	2177.1
62.5°	111.8	115.8	129.3	154.7	220.6	359.4	631.4	734.2	802.6	1343.6	1072.6
65°	90.3	93.3	104.3	115.8	145.7	193.2	203.6	196.2	195.2	347.4	246.1
67.5°	74.9	77.9	85.8	93.8	104.8	96.3	69.9	73.4	59.9	59.4	48.4
70°	54.9	58.4	66.4	74.9	62.9	26.0	40.4	59.9	45.4	37.9	36.9
72.5°	41.4	43.9	51.4	48.9	18.5	10.0	27.0	43.4	34.9	28.0	27.5
75°	30.9	32.4	26.0	8.0	2.0	2.5	10.0	18.0	19.5	16.0	16.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	2.0	2.5	3.0
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	569.0	548.0	518.1	493.1	474.2	455.7	441.7	427.7	427.2	420.3	418.8
5°	593.0	555.0	500.1	460.7	436.7	422.3	412.3	407.3	404.8	402.3	401.3
7.5°	627.4	573.0	497.1	455.2	435.2	425.7	418.8	415.8	414.3	412.3	411.8
10°	669.8	598.9	508.1	465.7	448.2	439.2	431.7	427.2	424.7	421.3	420.3
12.5°	720.7	630.9	525.6	483.1	464.7	452.7	442.7	436.2	432.7	428.2	427.2
15°	775.6	665.3	545.0	499.1	477.2	461.7	449.2	439.2	432.7	427.2	425.7
17.5°	832.5	700.3	562.5	510.1	483.1	464.7	446.7	433.2	425.2	418.3	416.3
20°	896.4	736.2	574.0	512.1	481.1	456.7	435.7	418.8	410.8	401.3	399.3
22.5°	963.3	769.6	579.0	507.6	470.2	441.7	419.3	401.8	390.3	380.3	377.3
25°	1028.2	799.6	576.5	495.1	453.7	420.8	397.8	379.8	367.3	357.4	354.9
27.5°	1097.1	824.5	567.5	476.7	431.2	397.8	375.8	360.4	348.9	337.9	335.4
30°	1174.4	847.5	553.0	454.2	404.8	374.3	357.4	346.9	334.4	322.9	319.4
32.5°	1267.8	868.0	532.1	427.2	381.3	353.9	344.4	336.4	321.9	310.0	307.5
35°	1374.6	884.9	505.6	399.3	358.4	340.9	338.9	328.4	309.5	295.5	292.5
37.5°	1498.3	901.4	474.2	371.8	341.4	334.9	335.4	317.4	294.5	277.5	275.5
40°	1631.6	917.9	439.2	347.9	325.9	331.4	326.9	301.5	264.0	247.6	245.6
42.5°	1770.4	935.8	403.8	325.4	312.9	317.9	311.4	269.5	242.6	234.1	233.1
45°	1895.6	957.3	365.4	303.0	300.0	298.5	287.5	244.1	232.6	226.6	226.1
47.5°	1986.0	953.8	324.4	281.5	286.0	281.0	247.6	232.1	222.6	214.6	212.6
50°	1969.5	892.9	282.0	257.5	268.0	263.5	222.6	218.1	209.6	201.1	198.1
52.5°	1927.6	810.1	245.1	232.1	248.6	238.1	205.6	201.1	193.7	182.7	179.2
55°	1950.0	732.2	216.1	211.6	228.6	197.2	186.7	179.7	171.7	159.7	158.2
57.5°	1877.7	597.4	173.7	176.7	202.1	168.2	163.7	152.7	139.3	131.3	130.3
60°	1299.7	320.9	108.8	112.3	146.2	141.2	146.7	136.8	120.3	112.8	111.3
62.5°	596.9	128.8	59.4	56.9	76.9	95.8	125.8	124.8	104.3	92.3	91.3
65°	144.7	58.9	42.4	39.9	43.4	57.4	81.9	98.3	84.4	70.4	68.9
67.5°	46.9	47.9	38.9	36.4	38.4	42.9	48.9	54.4	53.9	49.4	48.4
70°	37.4	43.4	35.9	32.9	32.9	34.4	32.9	26.5	23.0	25.0	26.0
72.5°	28.0	32.9	28.4	25.5	24.5	24.0	20.5	15.0	10.5	9.5	9.0
75°	16.5	18.5	17.5	15.0	14.0	12.5	10.0	6.5	3.5	2.5	1.5
77.5°	3.0	3.5	4.0	3.0	2.5	2.0	1.5	0.5	0.0	0.0	0.0
80°	0.0	0.5	0.5	0.5	0.0	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)