

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: P630297

Luminaire Tested: GWS-SA1D-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630297  
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-SA1D-735-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

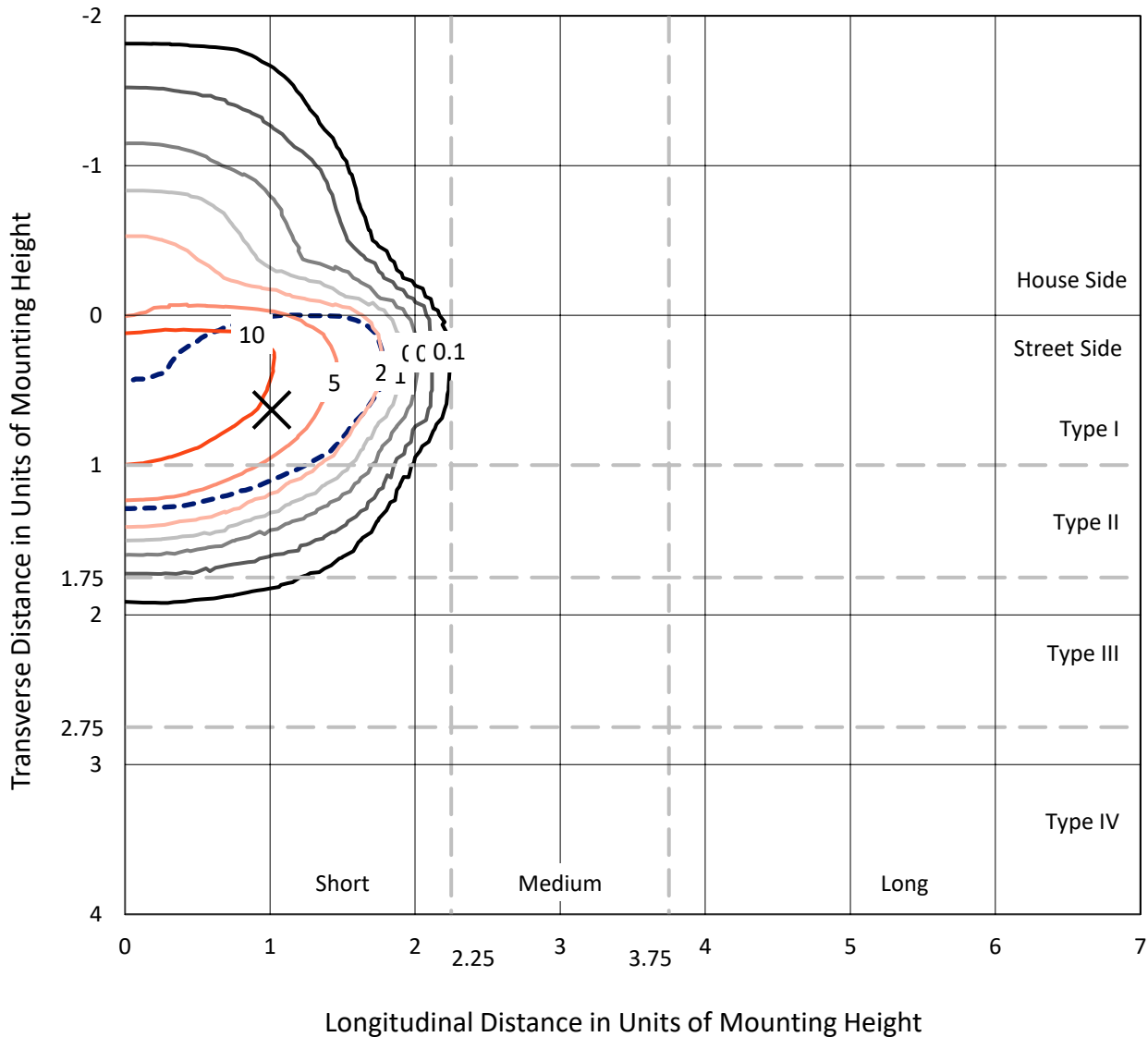
Lumens per Lamp: N/A  
Luminaire Lumens: 4009.1 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

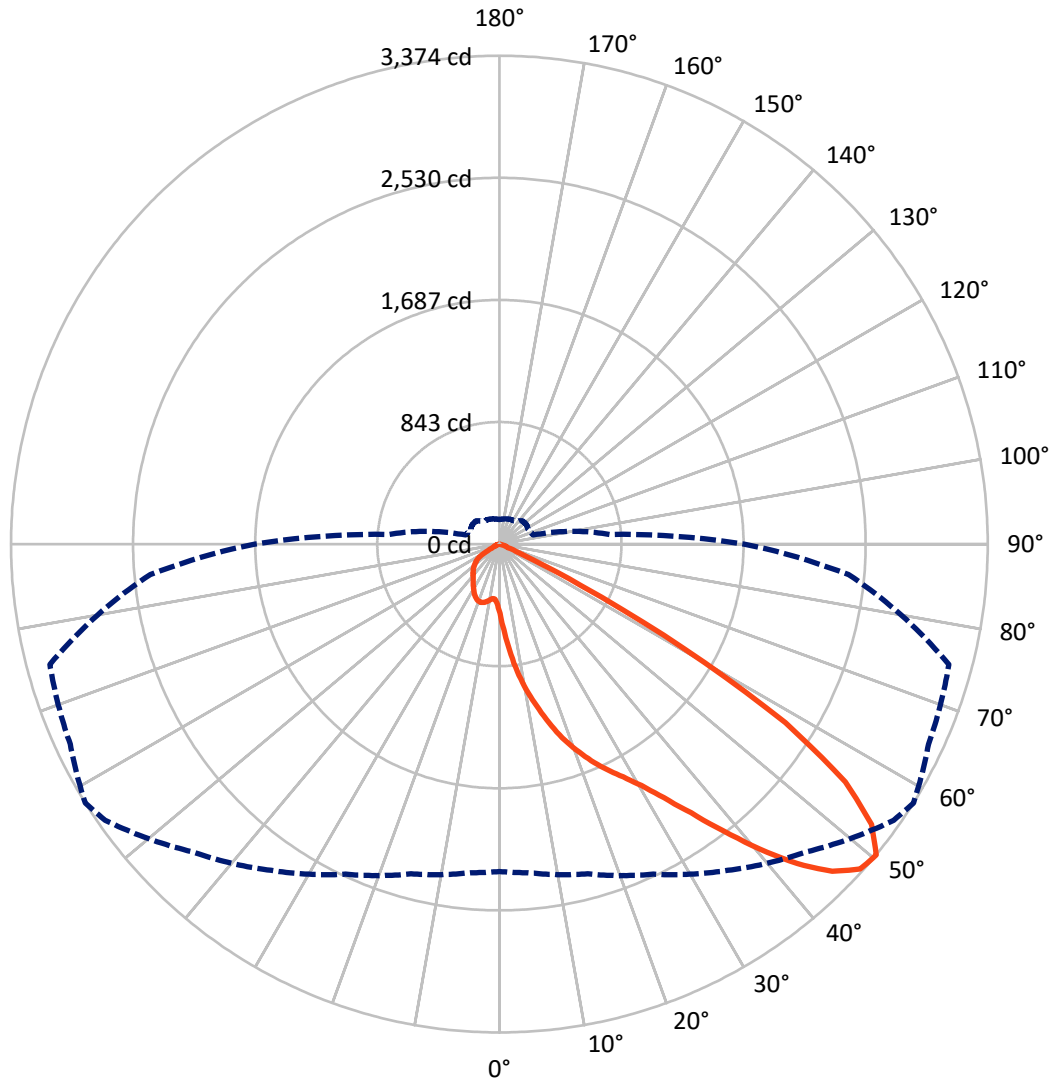
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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	561.5	0.0	561.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	3447.6	0.0	3447.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	4009.1	0.0	4009.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	1.5
10°-20°	234.9	5.9
20°-30°	475.2	11.9
30°-40°	840.7	21.0
40°-50°	1225.6	30.6
50°-60°	982.4	24.5
60°-70°	177.0	4.4
70°-80°	13.9	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°	4009.1	100.0
0°-180°	4009.1	100.0

**Coefficient of Utilization**



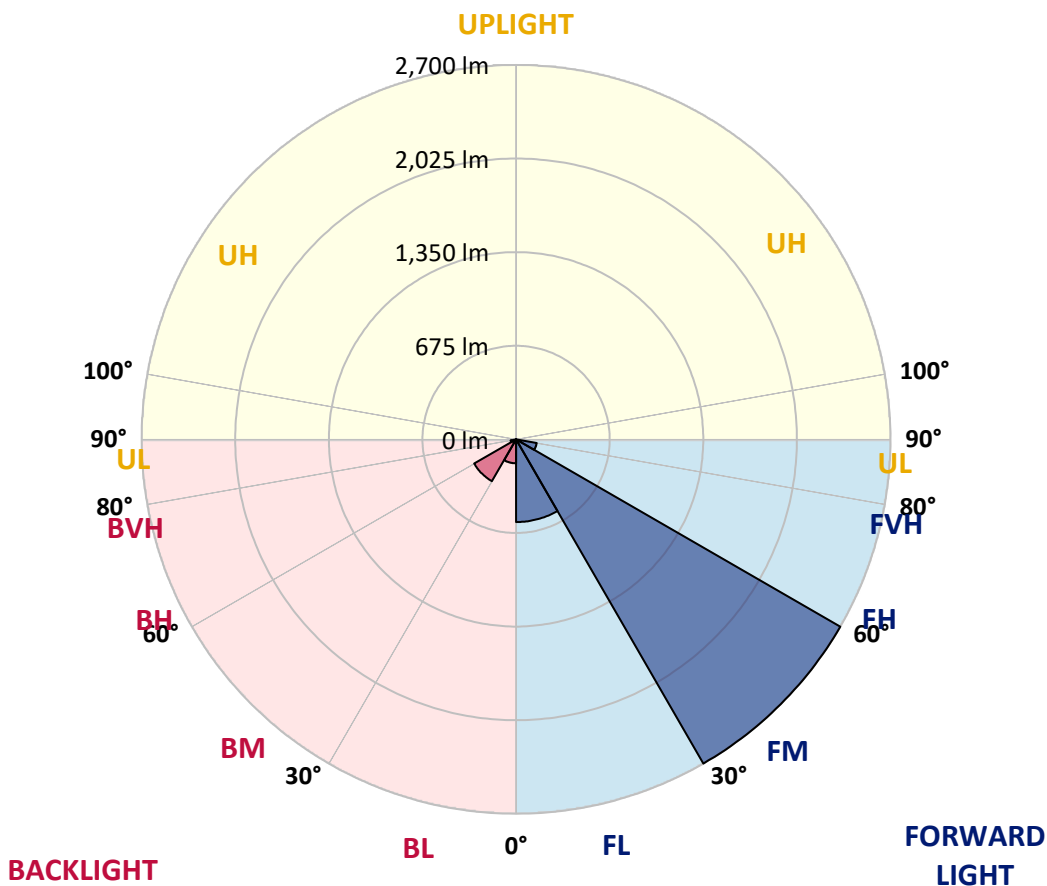
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.5	14.9			
FM (30°-60°)	2700.0	67.3			
FH (60°-80°)	151.0	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	172.9	4.3	B1/500		
BM (30°-60°)	348.7	8.7	B1/1000		
BH (60°-80°)	39.9	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°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	708.7	697.5	691.1	686.0	663.2	627.2	603.6	591.2	570.6	535.9	505.9
5°	924.7	916.6	901.6	891.3	862.2	811.1	758.4	737.4	690.7	612.2	541.9
7.5°	1067.9	1061.9	1056.4	1042.6	1015.2	968.9	910.6	888.7	816.7	705.2	589.9
10°	1178.1	1173.4	1167.0	1166.5	1145.1	1103.5	1046.5	1023.8	945.8	806.4	646.5
12.5°	1275.0	1271.2	1269.9	1281.9	1268.2	1237.3	1175.5	1147.3	1064.5	909.7	709.1
15°	1341.5	1340.6	1346.2	1369.8	1377.5	1363.3	1311.5	1281.0	1185.8	1013.5	778.1
17.5°	1371.9	1374.5	1385.2	1425.9	1460.2	1472.2	1432.4	1406.6	1306.3	1118.5	851.9
20°	1423.8	1422.9	1429.4	1467.9	1510.0	1552.8	1540.8	1519.0	1428.1	1229.6	933.8
22.5°	1570.0	1557.5	1543.8	1549.8	1564.8	1615.0	1637.3	1626.1	1553.7	1343.6	1018.2
25°	1794.6	1781.8	1737.6	1694.7	1666.4	1689.2	1719.6	1725.2	1678.4	1460.6	1106.5
27.5°	2033.0	2021.4	1971.7	1907.4	1826.3	1786.9	1809.6	1820.8	1801.1	1600.0	1200.4
30°	2256.4	2240.9	2186.5	2106.7	2012.8	1952.4	1926.7	1934.4	1946.0	1765.0	1310.6
32.5°	2450.1	2438.6	2373.4	2289.4	2198.9	2135.9	2075.9	2088.7	2117.0	1967.0	1451.6
35°	2614.3	2608.3	2539.3	2455.7	2360.1	2327.9	2276.5	2279.1	2307.4	2210.9	1623.6
37.5°	2757.1	2746.8	2684.2	2606.6	2530.7	2525.6	2511.4	2512.7	2527.3	2495.1	1821.2
40°	2847.1	2837.7	2793.1	2745.1	2691.1	2691.9	2765.2	2770.8	2754.1	2774.2	2030.0
42.5°	2881.0	2874.1	2850.1	2850.6	2845.0	2870.3	3007.9	3018.2	2958.2	2993.3	2208.3
45°	2822.3	2819.3	2821.0	2882.7	2949.6	3027.6	3206.4	3224.4	3139.5	3138.7	2347.7
47.5°	2632.8	2626.8	2676.9	2782.0	2936.7	3088.5	3326.4	3354.3	3266.4	3221.8	2435.1
50°	2261.5	2278.6	2358.0	2515.7	2751.1	3004.9	3325.2	3373.6	3271.1	3214.5	2420.6
52.5°	1638.1	1634.7	1808.3	2025.3	2311.7	2737.4	3148.5	3219.3	3156.7	3142.9	2388.0
55°	891.3	922.6	1039.6	1326.9	1684.4	2231.1	2745.1	2899.4	2971.9	3116.8	2446.7
57.5°	327.5	341.3	414.6	617.8	891.7	1387.3	2096.9	2329.7	2553.5	3043.9	2436.8
60°	132.0	134.6	163.8	227.2	374.7	706.1	1257.9	1464.5	1675.4	2330.1	1870.1
62.5°	96.0	99.5	111.0	132.9	189.5	308.7	542.3	630.6	689.4	1154.1	921.3
65°	77.6	80.2	89.6	99.5	125.2	165.9	174.9	168.5	167.6	298.4	211.4
67.5°	64.3	66.9	73.7	80.6	90.0	82.7	60.0	63.0	51.4	51.0	41.6
70°	47.2	50.2	57.0	64.3	54.0	22.3	34.7	51.4	39.0	32.6	31.7
72.5°	35.6	37.7	44.2	42.0	15.9	8.6	23.2	37.3	30.0	24.0	23.6
75°	26.6	27.9	22.3	6.9	1.7	2.1	8.6	15.4	16.7	13.7	13.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.3	1.7	2.1	2.6
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°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	488.7	470.7	445.0	423.6	407.3	391.4	379.4	367.4	367.0	361.0	359.7
5°	509.3	476.7	429.6	395.7	375.1	362.7	354.1	349.8	347.7	345.5	344.7
7.5°	538.9	492.2	427.0	391.0	373.8	365.7	359.7	357.1	355.8	354.1	353.7
10°	575.3	514.5	436.4	400.0	385.0	377.3	370.8	367.0	364.8	361.8	361.0
12.5°	619.1	541.9	451.4	415.0	399.1	388.8	380.3	374.7	371.7	367.8	367.0
15°	666.2	571.5	468.2	428.7	409.9	396.6	385.8	377.3	371.7	367.0	365.7
17.5°	715.1	601.5	483.2	438.2	415.0	399.1	383.7	372.1	365.3	359.3	357.6
20°	770.0	632.4	493.0	439.9	413.3	392.3	374.3	359.7	352.8	344.7	343.0
22.5°	827.4	661.1	497.3	436.0	403.9	379.4	360.1	345.1	335.3	326.7	324.1
25°	883.2	686.8	495.2	425.3	389.7	361.4	341.7	326.3	315.5	307.0	304.8
27.5°	942.3	708.2	487.5	409.4	370.4	341.7	322.8	309.5	299.7	290.2	288.1
30°	1008.8	728.0	475.0	390.1	347.7	321.5	307.0	298.0	287.2	277.4	274.4
32.5°	1088.9	745.5	457.0	367.0	327.5	304.0	295.8	289.0	276.5	266.2	264.1
35°	1180.7	760.1	434.3	343.0	307.8	292.8	291.1	282.1	265.8	253.8	251.2
37.5°	1287.0	774.3	407.3	319.4	293.2	287.7	288.1	272.7	252.9	238.4	236.7
40°	1401.5	788.4	377.3	298.8	280.0	284.7	280.8	258.9	226.8	212.6	210.9
42.5°	1520.7	803.8	346.8	279.5	268.8	273.1	267.5	231.5	208.4	201.1	200.2
45°	1628.3	822.3	313.8	260.2	257.7	256.4	246.9	209.6	199.8	194.6	194.2
47.5°	1705.9	819.3	278.7	241.8	245.7	241.4	212.6	199.4	191.2	184.3	182.6
50°	1691.7	767.0	242.2	221.2	230.2	226.4	191.2	187.4	180.1	172.8	170.2
52.5°	1655.7	695.8	210.5	199.4	213.5	204.5	176.6	172.8	166.3	156.9	153.9
55°	1675.0	628.9	185.6	181.8	196.4	169.3	160.3	154.3	147.5	137.2	135.9
57.5°	1612.8	513.2	149.2	151.8	173.6	144.5	140.6	131.2	119.6	112.8	111.9
60°	1116.4	275.7	93.5	96.5	125.6	121.3	126.0	117.5	103.3	96.9	95.6
62.5°	512.7	110.6	51.0	48.9	66.0	82.3	108.0	107.2	89.6	79.3	78.5
65°	124.3	50.6	36.4	34.3	37.3	49.3	70.3	84.5	72.5	60.4	59.2
67.5°	40.3	41.2	33.4	31.3	33.0	36.9	42.0	46.7	46.3	42.4	41.6
70°	32.2	37.3	30.9	28.3	28.3	29.6	28.3	22.7	19.7	21.4	22.3
72.5°	24.0	28.3	24.4	21.9	21.0	20.6	17.6	12.9	9.0	8.1	7.7
75°	14.1	15.9	15.0	12.9	12.0	10.7	8.6	5.6	3.0	2.1	1.3
77.5°	2.6	3.0	3.4	2.6	2.1	1.7	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.4	0.4	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)