

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: P631338

Luminaire Tested: GWS-SA1F-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631338
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5004.4 lumens
Efficiency: N/A
Efficacy: 74.5 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

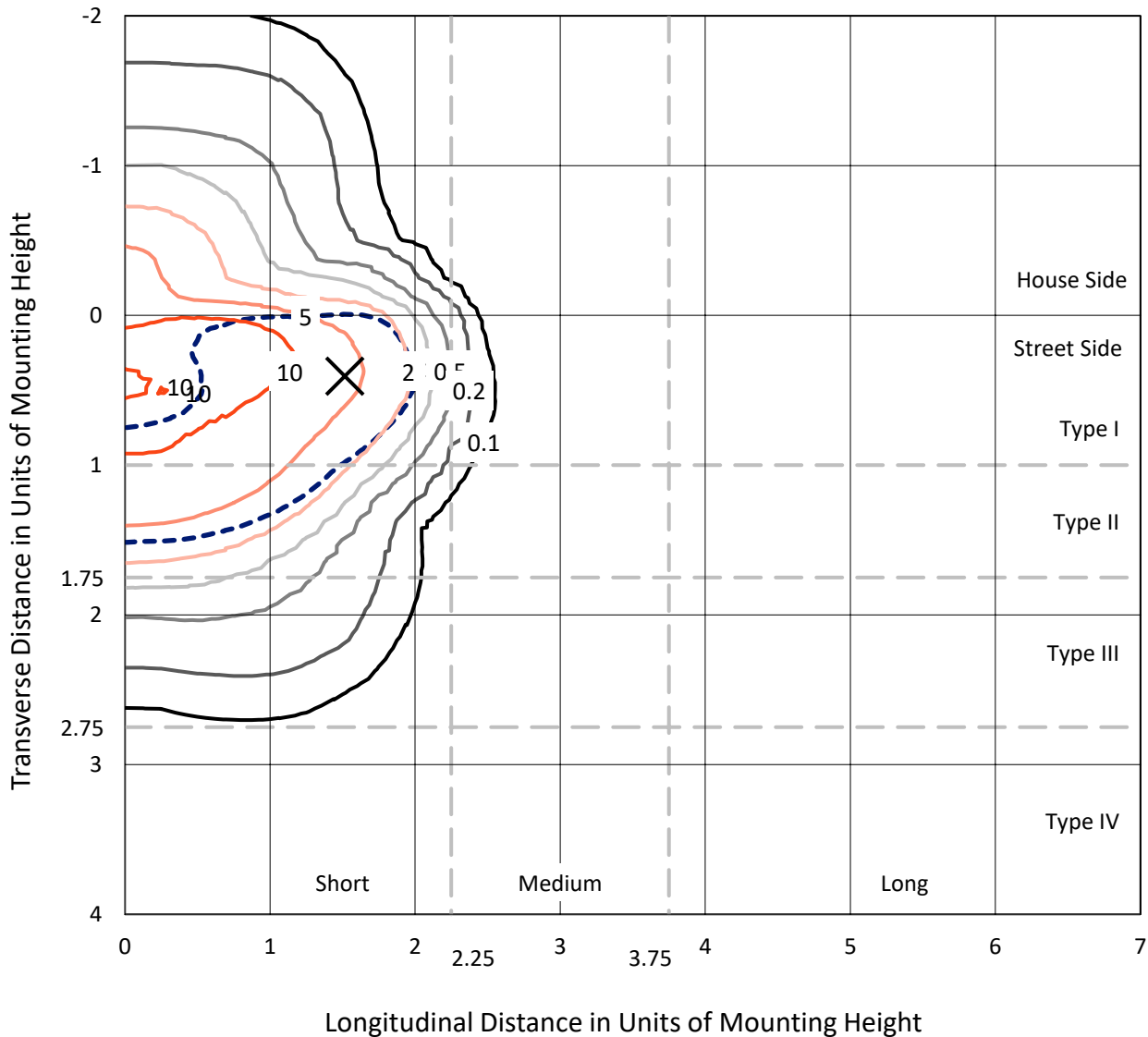
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

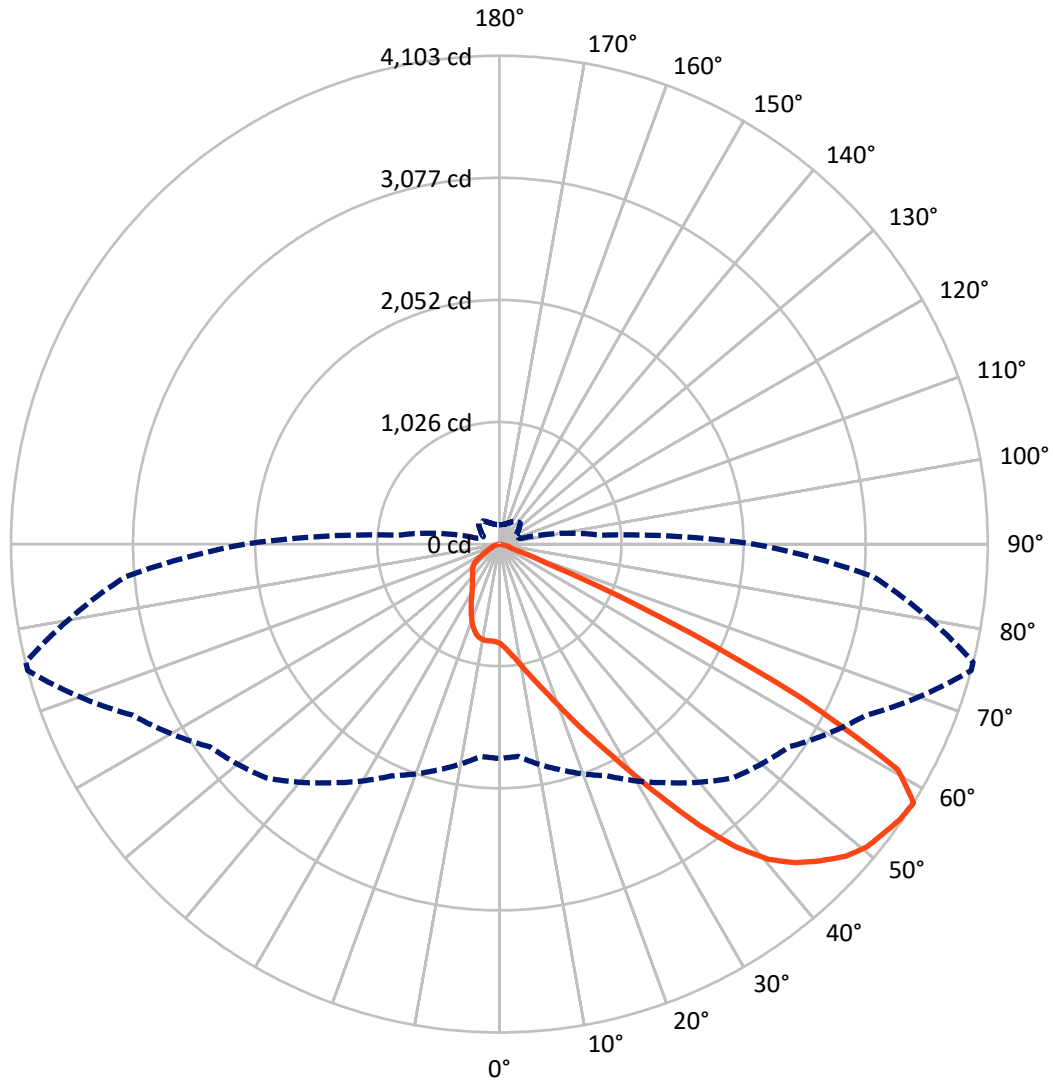
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 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
House Side	Lumens	817.5	0.0	817.5
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	4186.9	0.0	4186.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	5004.4	0.0	5004.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.7
10°-20°	275.9	5.5
20°-30°	505.2	10.1
30°-40°	838.2	16.8
40°-50°	1280.2	25.6
50°-60°	1438.5	28.7
60°-70°	530.6	10.6
70°-80°	50.7	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°	5004.4	100.0
0°-180°	5004.4	100.0

Coefficient of Utilization



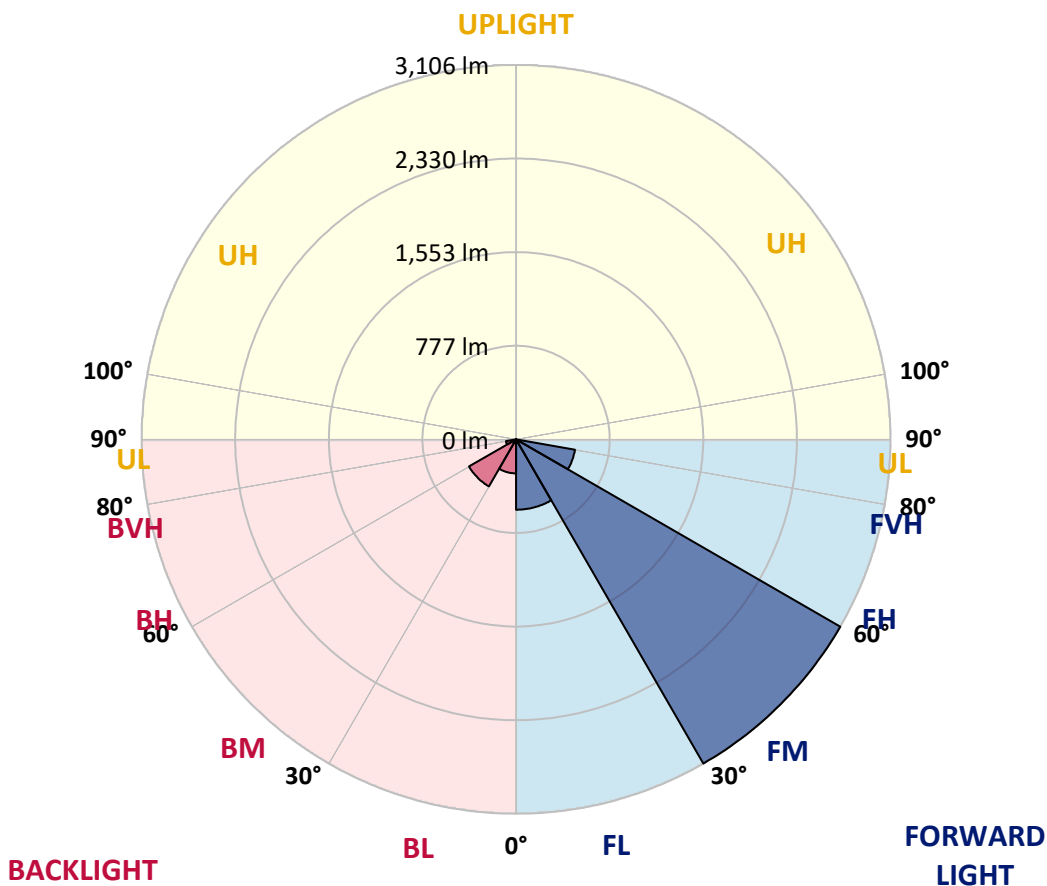
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.0	11.7			
FM (30°-60°)	3106.5	62.1			
FH (60°-80°)	496.4	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	282.1	5.6	B1/500		
BM (30°-60°)	450.5	9.0	B1/1000		
BH (60°-80°)	84.9	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°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	932.5	942.2	939.1	933.1	929.5	916.8	909.0	886.0	869.7	867.9	852.8
5°	1050.3	1048.5	1046.0	1038.8	1032.8	1012.8	989.3	950.6	916.2	912.0	880.0
7.5°	1114.9	1116.1	1117.3	1116.1	1111.9	1096.8	1070.8	1025.5	973.0	969.3	918.6
10°	1141.5	1143.9	1149.9	1161.4	1171.7	1170.5	1155.4	1108.9	1044.2	1038.2	969.9
12.5°	1154.2	1157.2	1166.8	1188.6	1216.4	1238.1	1240.5	1198.8	1127.6	1117.9	1030.9
15°	1171.7	1174.7	1186.8	1215.2	1255.6	1298.5	1326.3	1299.7	1220.0	1209.7	1098.0
17.5°	1179.5	1183.7	1201.3	1238.7	1291.3	1357.1	1419.9	1417.5	1329.3	1321.5	1175.9
20°	1194.6	1197.6	1213.3	1253.8	1317.2	1412.0	1517.7	1555.8	1462.8	1451.3	1270.1
22.5°	1242.3	1243.5	1250.8	1276.2	1335.3	1451.9	1617.4	1717.0	1620.4	1605.3	1375.8
25°	1320.2	1319.6	1322.7	1326.9	1370.4	1492.4	1713.4	1898.8	1801.0	1784.7	1495.4
27.5°	1419.3	1419.3	1426.5	1414.5	1432.0	1542.5	1808.2	2107.8	2011.2	1988.2	1626.4
30°	1535.9	1535.3	1552.2	1532.8	1538.3	1621.6	1910.3	2335.5	2264.8	2236.4	1777.4
32.5°	1694.1	1690.5	1709.8	1683.2	1665.1	1741.2	2034.7	2573.4	2568.6	2525.1	1967.1
35°	1894.0	1888.0	1894.0	1868.0	1835.4	1908.5	2197.8	2810.8	2905.6	2859.7	2193.0
37.5°	2092.7	2112.0	2118.7	2074.0	2047.4	2120.5	2394.1	3023.4	3227.5	3179.8	2427.9
40°	2327.0	2321.0	2343.9	2293.8	2276.9	2357.8	2586.1	3181.6	3482.4	3437.1	2636.9
42.5°	2499.8	2510.6	2539.0	2511.2	2498.0	2574.1	2747.4	3274.0	3659.4	3614.7	2786.0
45°	2706.9	2714.8	2725.6	2702.7	2688.8	2763.7	2863.9	3314.5	3794.0	3745.7	2886.3
47.5°	2931.0	2937.0	2937.0	2889.9	2845.2	2876.0	2941.9	3337.4	3917.8	3871.3	2960.6
50°	3091.6	3094.7	3121.2	3088.0	2990.8	2943.1	2977.5	3359.8	4000.0	3956.5	2984.7
52.5°	2949.1	2945.5	3033.1	3101.9	3127.9	3033.1	3039.1	3392.4	4039.8	4002.4	3004.1
55°	2483.5	2477.4	2600.6	2767.9	2996.8	3118.2	3113.4	3411.7	4083.9	4061.0	3074.1
57.5°	1800.4	1790.1	1961.6	2147.7	2447.8	2777.0	2970.2	3400.9	4103.3	4101.5	3155.7
60°	1082.3	1073.8	1235.7	1431.4	1663.3	1994.3	2315.0	3046.3	3844.8	3848.4	2943.7
62.5°	666.2	674.0	820.2	919.8	1006.2	1105.8	1291.3	2049.2	2848.2	2871.8	2068.5
65°	448.1	454.2	589.5	715.1	715.1	584.6	501.9	979.6	1519.5	1479.7	978.4
67.5°	300.8	307.4	414.3	561.1	582.2	407.7	203.5	292.3	423.4	410.7	242.2
70°	177.0	184.2	276.0	384.7	424.0	283.9	135.9	123.8	120.2	116.6	94.2
72.5°	79.1	82.1	140.7	195.7	178.8	119.6	96.0	99.0	93.6	91.8	76.7
75°	24.2	25.4	36.2	42.3	42.9	42.9	58.0	77.9	73.7	74.3	59.2
77.5°	6.0	6.0	9.7	9.1	4.8	4.2	10.9	17.5	18.1	16.3	12.1
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°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	846.1	830.4	820.2	805.7	795.4	784.5	774.9	767.0	762.8	761.6	762.2
5°	865.5	840.7	816.5	788.8	769.4	751.3	736.8	725.3	719.9	718.1	718.1
7.5°	895.1	860.6	817.8	774.3	741.7	713.3	696.4	683.7	678.8	677.6	674.0
10°	933.7	886.6	815.9	748.3	702.4	672.8	660.7	657.1	658.9	659.5	658.9
12.5°	980.2	913.8	804.5	710.2	660.7	642.6	643.8	653.5	664.3	669.8	671.0
15°	1029.7	938.5	778.5	665.0	625.1	624.5	642.0	664.3	685.5	694.5	697.0
17.5°	1085.3	958.5	738.6	616.6	594.3	611.8	643.2	677.6	706.0	721.1	724.1
20°	1146.3	974.8	687.9	571.3	567.1	598.5	642.0	684.3	719.3	736.2	739.2
22.5°	1209.7	986.3	629.3	529.7	542.4	583.4	630.5	671.6	704.8	724.1	726.6
25°	1282.2	987.5	569.5	494.6	519.4	562.9	602.7	636.6	664.3	681.3	683.1
27.5°	1345.6	973.0	516.4	466.3	498.3	537.5	564.1	582.8	602.1	611.8	612.4
30°	1418.7	947.6	466.3	443.3	476.5	506.1	519.4	523.6	525.4	527.3	524.8
32.5°	1505.7	916.8	428.8	421.0	451.8	471.7	475.3	466.9	456.6	442.1	438.5
35°	1612.6	889.0	398.0	399.2	424.6	436.7	433.6	415.5	395.6	378.1	375.1
37.5°	1728.5	865.5	374.5	378.1	395.0	403.4	394.4	374.5	365.4	350.3	350.9
40°	1831.2	846.1	353.3	356.9	364.8	372.6	358.1	344.9	361.8	360.6	361.8
42.5°	1904.3	829.8	335.2	333.4	338.8	344.3	333.4	326.7	355.1	347.3	351.5
45°	1947.1	814.7	320.1	309.2	317.7	327.3	320.1	311.6	321.3	285.1	282.0
47.5°	1976.1	806.3	306.8	285.7	300.8	317.7	302.6	282.0	268.2	236.7	234.3
50°	1979.2	802.1	291.1	261.5	280.8	299.0	281.4	253.1	233.1	219.2	217.4
52.5°	1994.9	810.5	269.4	230.7	251.8	280.8	268.8	240.4	213.2	201.1	198.7
55°	2064.9	846.1	233.1	188.4	219.2	266.9	258.5	214.4	188.4	181.2	179.4
57.5°	2137.4	853.4	183.6	149.2	190.8	247.0	236.1	197.5	172.1	163.7	161.9
60°	1954.4	703.0	137.7	123.2	168.5	228.3	218.6	187.2	157.6	147.4	145.6
62.5°	1284.0	379.9	109.3	104.5	141.9	193.3	199.3	169.1	140.7	129.9	129.2
65°	591.9	176.4	83.9	82.7	111.1	154.0	171.5	148.0	119.0	109.3	109.3
67.5°	161.3	87.6	65.8	61.0	75.5	103.3	125.0	110.5	84.6	73.1	72.5
70°	80.3	70.7	59.2	52.5	54.4	64.0	73.7	61.6	42.9	35.0	34.4
72.5°	65.8	58.0	50.1	44.7	41.1	39.3	38.0	30.8	19.9	15.1	14.5
75°	48.9	41.7	35.6	29.0	24.8	23.0	20.5	15.1	8.5	4.8	4.2
77.5°	10.9	10.3	9.7	7.2	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)