

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: P637062

Luminaire Tested: GWS-SA4C-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637062
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-SA4C-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9585 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

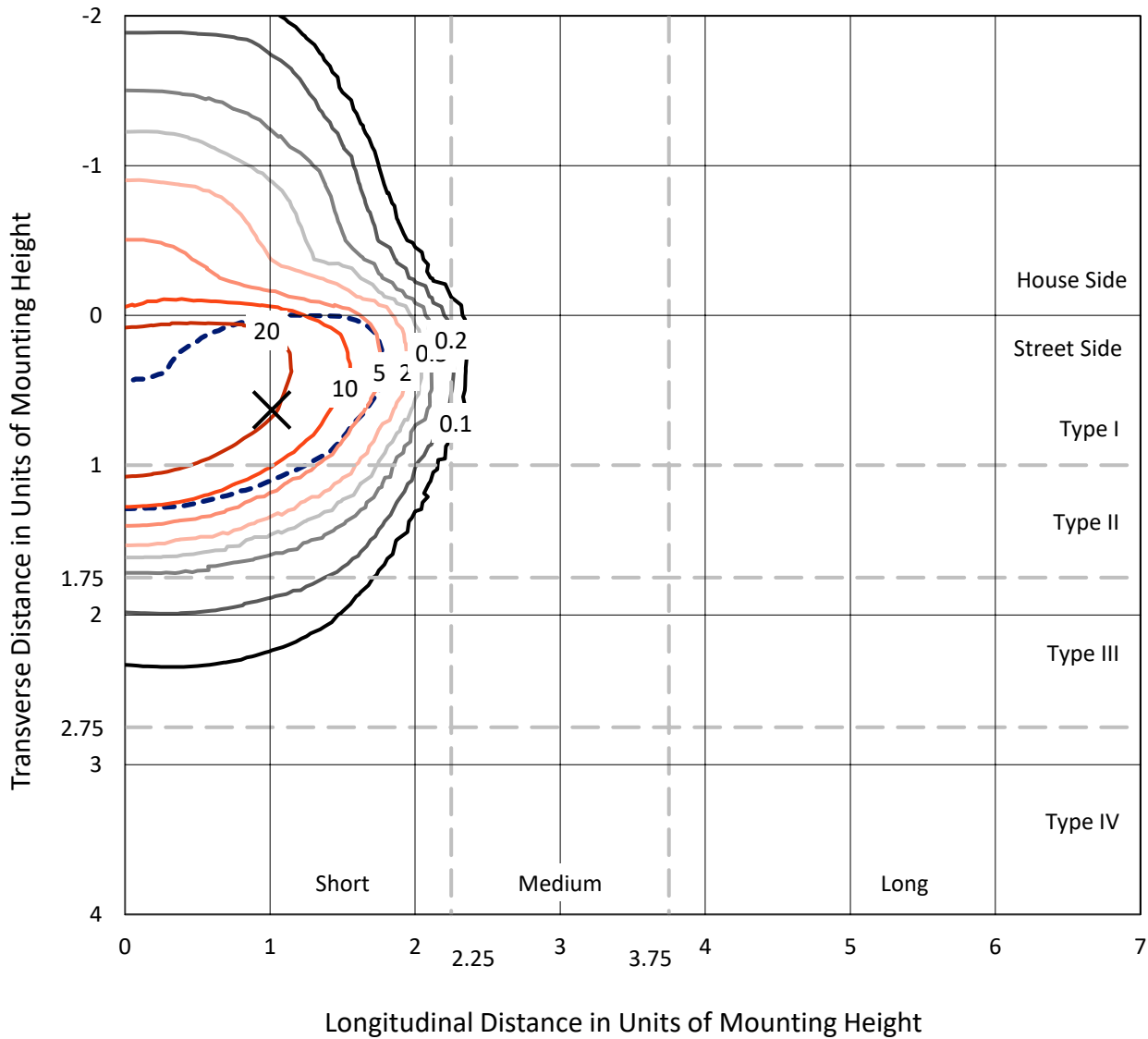
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

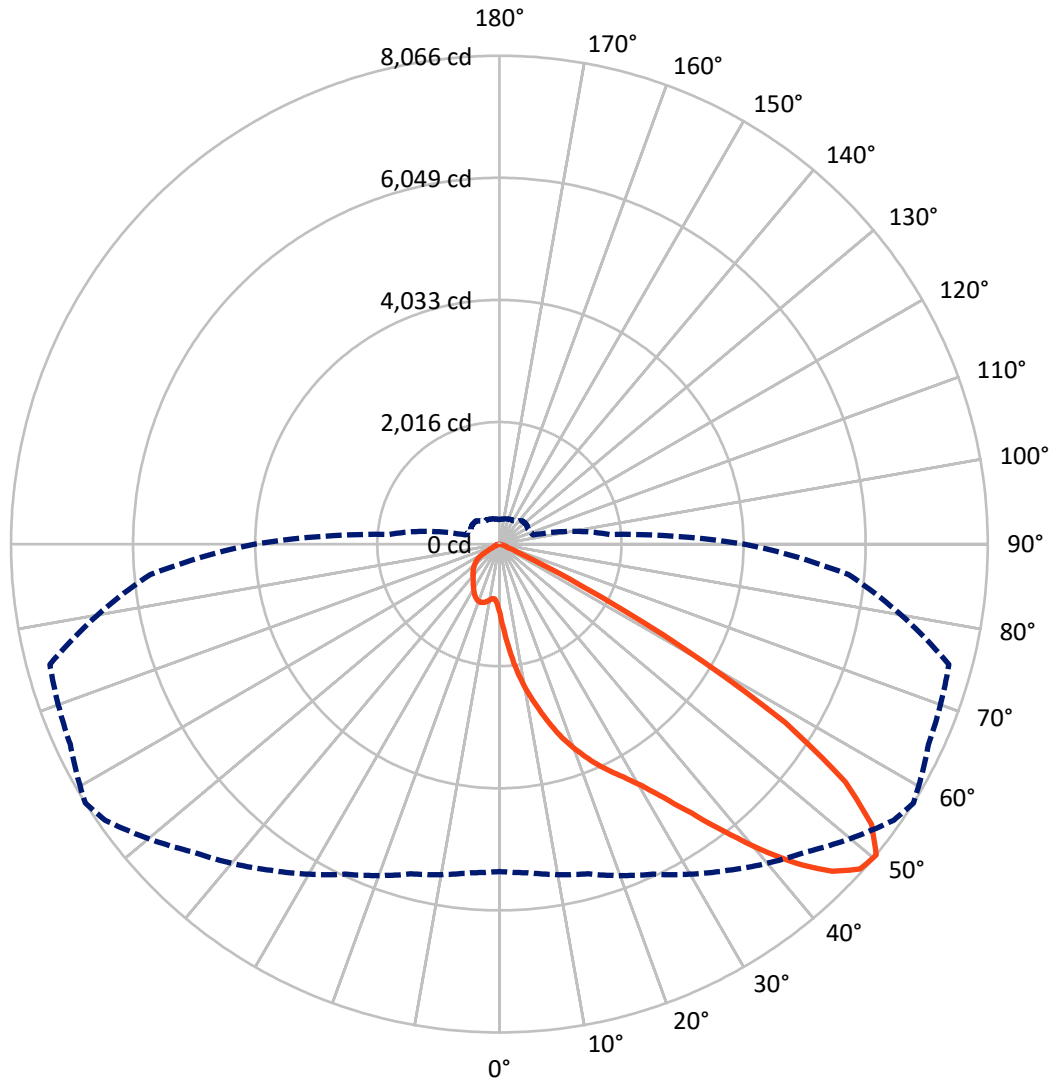
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.2 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
House Side	Lumens	1342.5	0.0	1342.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8242.5	0.0	8242.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	9585.0	0.0	9585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.5
10°-20°	561.5	5.9
20°-30°	1136.2	11.9
30°-40°	2010.1	21.0
40°-50°	2930.2	30.6
50°-60°	2348.7	24.5
60°-70°	423.1	4.4
70°-80°	33.3	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°	9585.0	100.0
0°-180°	9585.0	100.0

Coefficient of Utilization



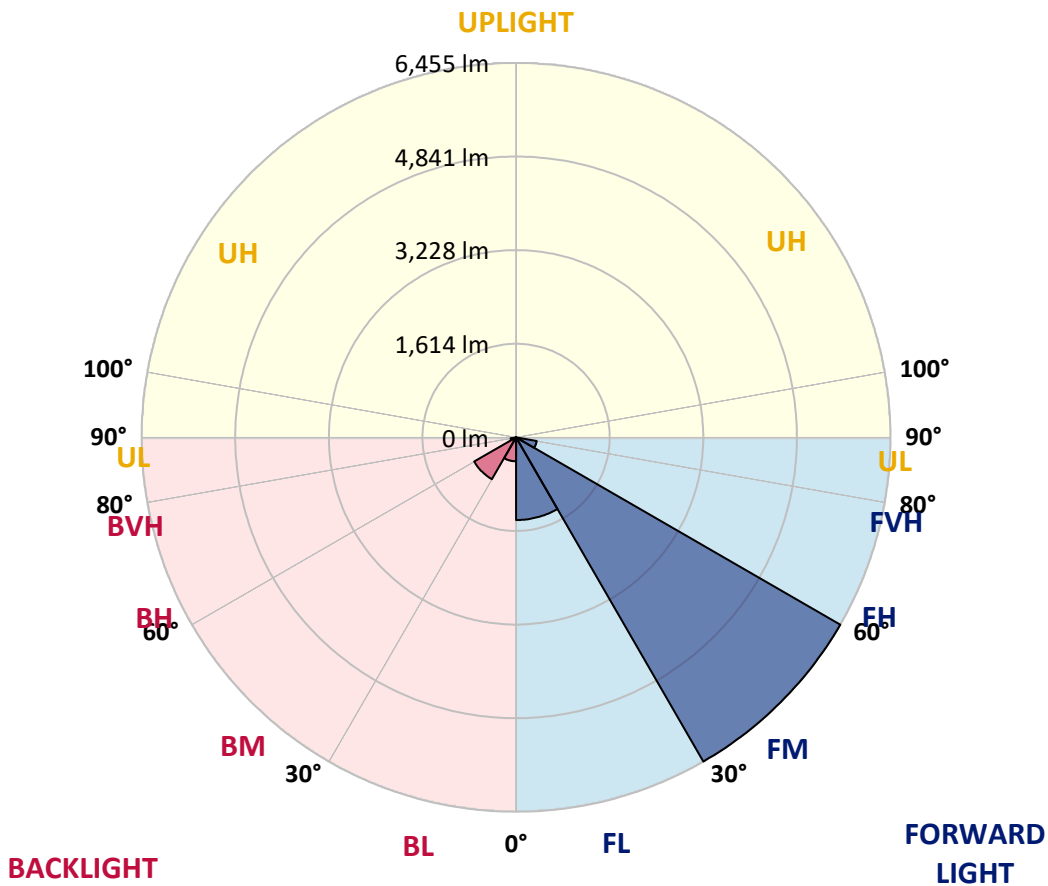
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.2	14.9			
FM (30°-60°)	6455.2	67.3			
FH (60°-80°)	361.1	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	413.3	4.3	B1/500		
BM (30°-60°)	833.8	8.7	B1/1000		
BH (60°-80°)	95.4	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°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1694.3	1667.7	1652.3	1640.0	1585.7	1499.6	1443.2	1413.5	1364.3	1281.2	1209.5
5°	2210.9	2191.4	2155.6	2131.0	2061.3	1939.3	1813.2	1763.0	1651.3	1463.7	1295.6
7.5°	2553.2	2538.9	2525.6	2492.8	2427.2	2316.5	2177.1	2124.8	1952.6	1686.1	1410.4
10°	2816.7	2805.4	2790.0	2789.0	2737.7	2638.3	2502.0	2447.7	2261.1	1928.0	1545.7
12.5°	3048.3	3039.1	3036.0	3064.7	3031.9	2958.1	2810.5	2742.9	2545.0	2175.0	1695.3
15°	3207.2	3205.1	3218.5	3274.8	3293.3	3259.5	3135.4	3062.7	2835.1	2423.1	1860.4
17.5°	3280.0	3286.1	3311.7	3409.1	3491.1	3519.8	3424.5	3363.0	3123.1	2674.2	2036.7
20°	3404.0	3401.9	3417.3	3509.6	3610.0	3712.5	3683.8	3631.5	3414.2	2939.7	2232.4
22.5°	3753.5	3723.8	3691.0	3705.3	3741.2	3861.1	3914.4	3887.8	3714.6	3212.3	2434.3
25°	4290.6	4259.9	4154.3	4051.8	3984.1	4038.5	4111.2	4124.6	4012.8	3492.1	2645.5
27.5°	4860.5	4832.8	4713.9	4560.2	4366.4	4272.2	4326.5	4353.1	4306.0	3825.3	2870.0
30°	5394.5	5357.6	5227.4	5036.8	4812.3	4667.8	4606.3	4624.7	4652.4	4219.9	3133.4
32.5°	5857.8	5830.1	5674.3	5473.4	5257.2	5106.5	4963.0	4993.7	5061.4	4702.6	3470.6
35°	6250.4	6236.0	6071.0	5871.1	5642.6	5565.7	5442.7	5448.8	5516.5	5285.9	3881.6
37.5°	6591.7	6567.1	6417.5	6231.9	6050.5	6038.2	6004.4	6007.5	6042.3	5965.4	4354.1
40°	6806.9	6784.4	6677.8	6563.0	6433.9	6435.9	6611.2	6624.5	6584.5	6632.7	4853.3
42.5°	6887.9	6871.5	6814.1	6815.1	6801.8	6862.3	7191.3	7215.9	7072.4	7156.5	5279.7
45°	6747.5	6740.3	6744.4	6892.0	7051.9	7238.5	7665.9	7708.9	7506.0	7503.9	5612.8
47.5°	6294.5	6280.1	6400.0	6651.1	7021.2	7384.0	7952.9	8019.5	7809.4	7702.8	5821.9
50°	5406.8	5447.8	5637.4	6014.6	6577.3	7184.1	7949.8	8065.6	7820.7	7685.4	5787.1
52.5°	3916.5	3908.3	4323.4	4842.0	5526.7	6544.5	7527.5	7696.6	7547.0	7514.2	5709.2
55°	2131.0	2205.8	2485.6	3172.3	4027.2	5334.0	6563.0	6932.0	7105.2	7451.7	5849.6
57.5°	783.1	815.9	991.2	1477.0	2132.0	3316.9	5013.2	5569.8	6104.8	7277.4	5826.0
60°	315.7	321.8	391.5	543.2	895.8	1688.2	3007.3	3501.4	4005.7	5570.8	4471.0
62.5°	229.6	237.8	265.5	317.7	453.0	738.0	1296.6	1507.8	1648.2	2759.3	2202.7
65°	185.5	191.7	214.2	237.8	299.3	396.7	418.2	402.8	400.8	713.4	505.3
67.5°	153.7	159.9	176.3	192.7	215.2	197.8	143.5	150.7	123.0	122.0	99.4
70°	112.7	119.9	136.3	153.7	129.1	53.3	83.0	123.0	93.3	77.9	75.8
72.5°	85.1	90.2	105.6	100.4	37.9	20.5	55.3	89.2	71.7	57.4	56.4
75°	63.5	66.6	53.3	16.4	4.1	5.1	20.5	36.9	40.0	32.8	32.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.1	4.1	5.1	6.1
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°	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9	1144.9
2.5°	1168.5	1125.4	1063.9	1012.7	973.7	935.8	907.1	878.4	877.4	863.0	860.0
5°	1217.7	1139.8	1027.0	946.1	896.9	867.1	846.6	836.4	831.3	826.1	824.1
7.5°	1288.4	1176.7	1020.9	934.8	893.8	874.3	860.0	853.8	850.7	846.6	845.6
10°	1375.5	1230.0	1043.4	956.3	920.4	902.0	886.6	877.4	872.3	865.1	863.0
12.5°	1480.1	1295.6	1079.3	992.2	954.3	929.7	909.2	895.8	888.7	879.4	877.4
15°	1592.8	1366.3	1119.3	1025.0	979.9	948.1	922.5	902.0	888.7	877.4	874.3
17.5°	1709.7	1438.1	1155.2	1047.5	992.2	954.3	917.4	889.7	873.3	858.9	854.8
20°	1840.9	1511.9	1178.7	1051.6	988.1	937.9	894.8	860.0	843.6	824.1	820.0
22.5°	1978.2	1580.5	1189.0	1042.4	965.5	907.1	861.0	825.1	801.5	781.0	774.9
25°	2111.5	1642.0	1183.9	1016.8	931.7	864.1	816.9	780.0	754.4	733.9	728.8
27.5°	2252.9	1693.3	1165.4	978.9	885.6	816.9	771.8	740.0	716.5	693.9	688.8
30°	2411.8	1740.4	1135.7	932.7	831.3	768.7	733.9	712.4	686.7	663.2	656.0
32.5°	2603.5	1782.5	1092.6	877.4	783.1	726.7	707.2	690.8	661.1	636.5	631.4
35°	2822.8	1817.3	1038.3	820.0	735.9	700.1	696.0	674.4	635.5	606.8	600.6
37.5°	3077.0	1851.1	973.7	763.6	701.1	687.8	688.8	651.9	604.7	569.9	565.8
40°	3350.7	1885.0	902.0	714.4	669.3	680.6	671.4	619.1	542.2	508.4	504.3
42.5°	3635.6	1921.9	829.2	668.3	642.7	652.9	639.6	553.5	498.1	480.7	478.7
45°	3892.9	1965.9	750.3	622.2	616.0	612.9	590.4	501.2	477.6	465.3	464.3
47.5°	4078.4	1958.8	666.2	578.1	587.3	577.1	508.4	476.6	457.1	440.7	436.6
50°	4044.6	1833.7	579.1	528.9	550.4	541.2	457.1	447.9	430.5	413.1	406.9
52.5°	3958.5	1663.6	503.3	476.6	510.4	488.9	422.3	413.1	397.7	375.1	368.0
55°	4004.6	1503.7	443.8	434.6	469.4	404.9	383.3	369.0	352.6	328.0	324.9
57.5°	3856.0	1226.9	356.7	362.8	415.1	345.4	336.2	313.6	286.0	269.6	267.5
60°	2669.1	659.1	223.4	230.6	300.3	290.1	301.3	280.8	247.0	231.6	228.6
62.5°	1225.9	264.4	122.0	116.8	157.8	196.8	258.3	256.2	214.2	189.6	187.6
65°	297.2	120.9	87.1	82.0	89.2	117.9	168.1	201.9	173.2	144.5	141.4
67.5°	96.3	98.4	79.9	74.8	78.9	88.1	100.4	111.7	110.7	101.5	99.4
70°	76.9	89.2	73.8	67.6	67.6	70.7	67.6	54.3	47.1	51.2	53.3
72.5°	57.4	67.6	58.4	52.3	50.2	49.2	42.0	30.7	21.5	19.5	18.4
75°	33.8	37.9	35.9	30.7	28.7	25.6	20.5	13.3	7.2	5.1	3.1
77.5°	6.1	7.2	8.2	6.1	5.1	4.1	3.1	1.0	0.0	0.0	0.0
80°	0.0	1.0	1.0	1.0	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

(END OF REPORT)