

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: P633267

Luminaire Tested: GWS-SA2E-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633267
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-SA2E-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9647 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

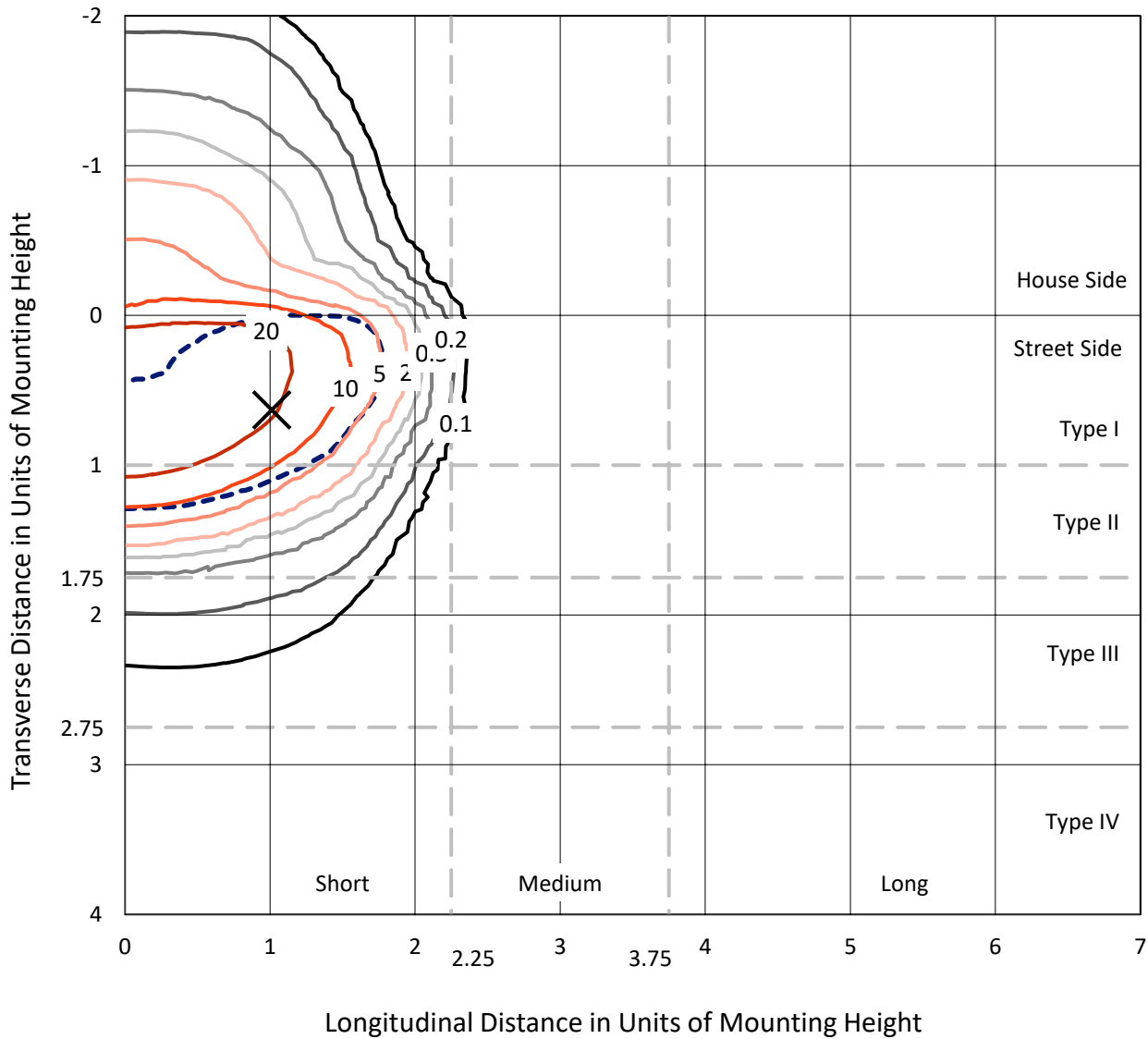
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

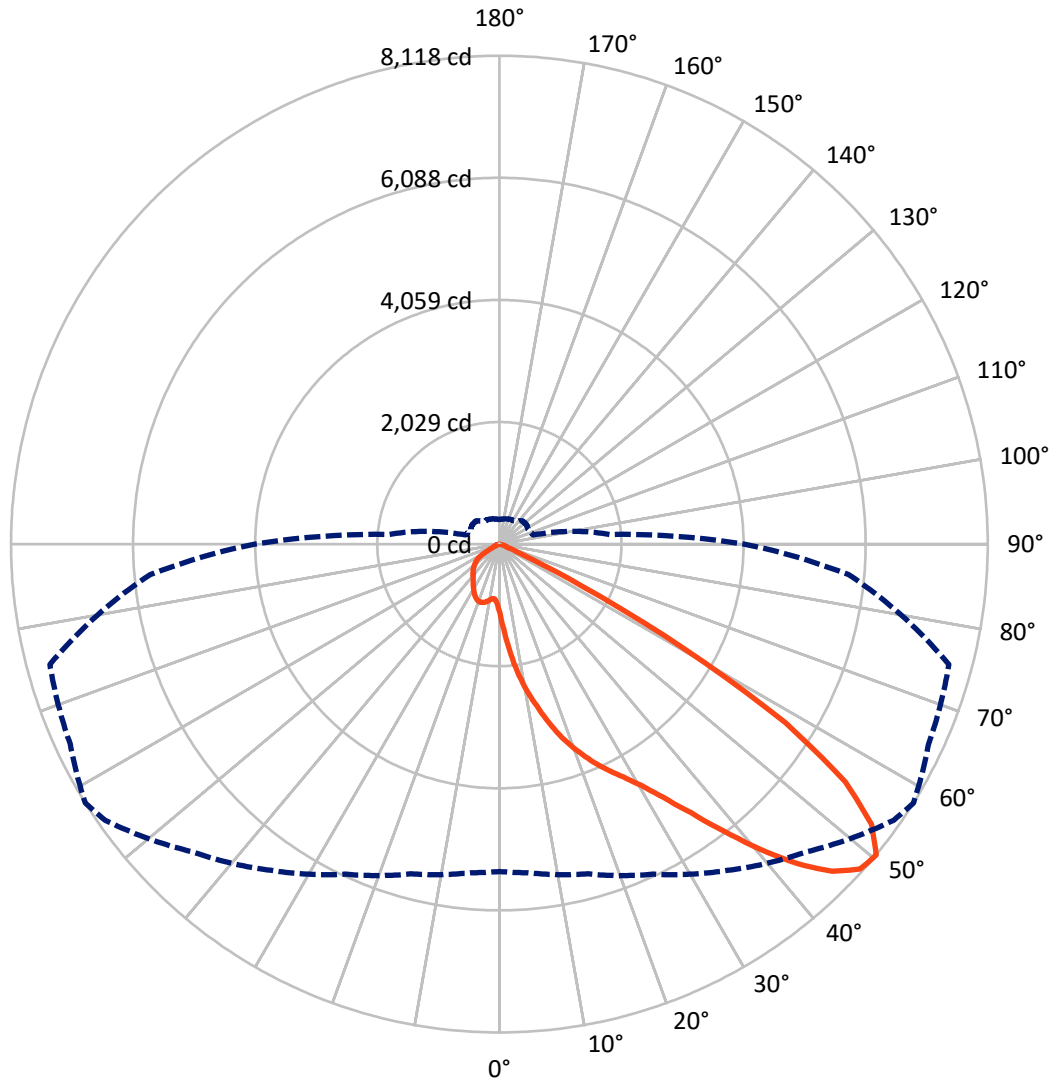
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35.4 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	1351.2	0.0	1351.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8295.8	0.0	8295.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	9647.0	0.0	9647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	1.5
10°-20°	565.1	5.9
20°-30°	1143.5	11.9
30°-40°	2023.1	21.0
40°-50°	2949.2	30.6
50°-60°	2363.9	24.5
60°-70°	425.9	4.4
70°-80°	33.6	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°	9647.0	100.0
0°-180°	9647.0	100.0

Coefficient of Utilization



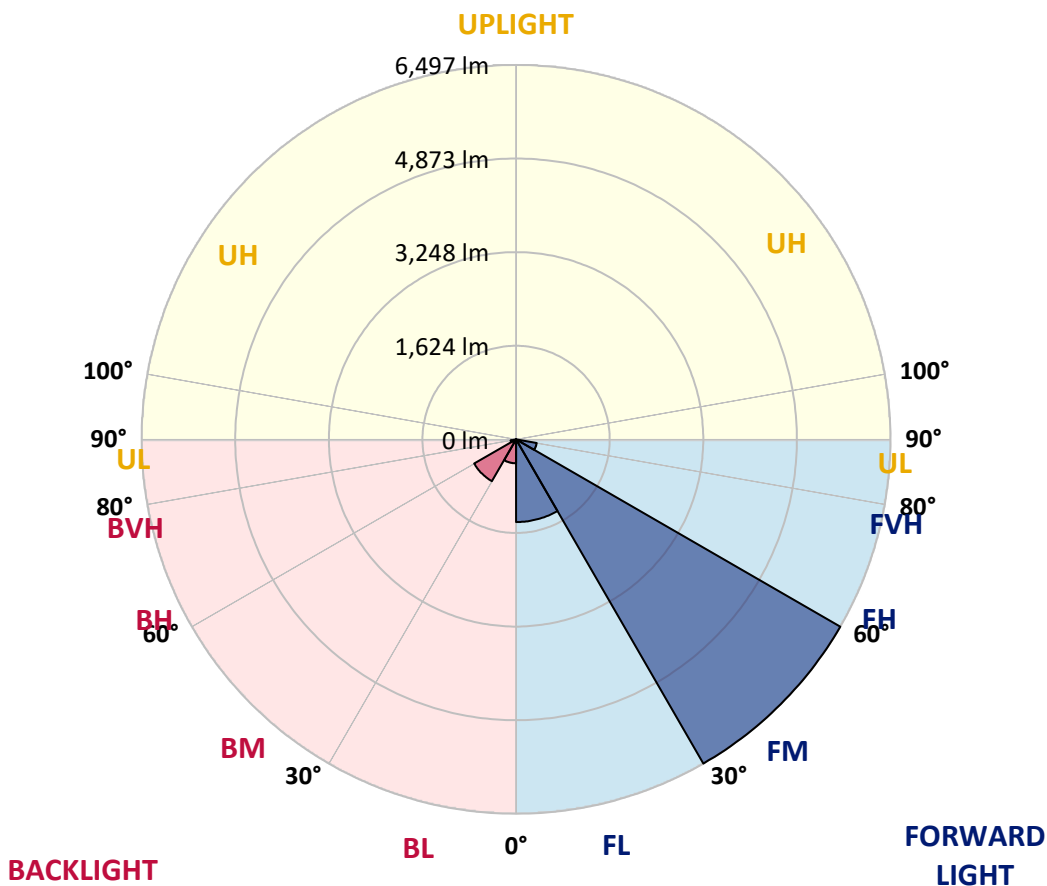
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.4	14.9			
FM (30°-60°)	6497.0	67.3			
FH (60°-80°)	363.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	416.0	4.3	B1/500		
BM (30°-60°)	839.2	8.7	B1/1000		
BH (60°-80°)	96.0	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°	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3
2.5°	1705.3	1678.4	1663.0	1650.6	1595.9	1509.3	1452.5	1422.6	1373.1	1289.5	1217.3
5°	2225.2	2205.6	2169.5	2144.7	2074.6	1951.8	1824.9	1774.4	1661.9	1473.2	1304.0
7.5°	2569.8	2555.3	2541.9	2508.9	2442.9	2331.5	2191.2	2138.5	1965.2	1697.0	1419.5
10°	2834.9	2823.5	2808.1	2807.0	2755.5	2655.4	2518.2	2463.5	2275.7	1940.5	1555.7
12.5°	3068.0	3058.7	3055.7	3084.5	3051.5	2977.3	2828.7	2760.6	2561.5	2189.1	1706.3
15°	3227.9	3225.9	3239.3	3296.0	3314.6	3280.5	3155.7	3082.5	2853.5	2438.7	1872.4
17.5°	3301.2	3307.4	3333.2	3431.2	3513.7	3542.6	3446.6	3384.7	3143.3	2691.5	2049.8
20°	3426.0	3423.9	3439.4	3532.3	3633.4	3736.5	3707.6	3655.0	3436.3	2958.7	2246.9
22.5°	3777.8	3747.9	3714.9	3729.3	3765.4	3886.1	3939.8	3912.9	3738.6	3233.1	2450.1
25°	4318.4	4287.4	4181.1	4078.0	4009.9	4064.6	4137.8	4151.2	4038.8	3514.7	2662.6
27.5°	4891.9	4864.1	4744.4	4589.7	4394.7	4299.8	4354.5	4381.3	4333.8	3850.0	2888.5
30°	5429.4	5392.3	5261.3	5069.4	4843.4	4698.0	4636.1	4654.7	4682.5	4247.2	3153.7
32.5°	5895.7	5867.8	5711.0	5508.8	5291.2	5139.5	4995.1	5026.0	5094.1	4733.1	3493.1
35°	6290.8	6276.4	6110.3	5909.1	5679.1	5601.7	5477.9	5484.1	5552.2	5320.1	3906.7
37.5°	6634.3	6609.6	6459.0	6272.2	6089.6	6077.3	6043.2	6046.3	6081.4	6004.0	4382.3
40°	6851.0	6828.3	6721.0	6605.5	6475.5	6477.5	6653.9	6667.3	6627.1	6675.6	4884.7
42.5°	6932.5	6916.0	6858.2	6859.2	6845.8	6906.7	7237.8	7262.6	7118.2	7202.8	5313.9
45°	6791.1	6783.9	6788.0	6936.6	7097.5	7285.3	7715.5	7758.8	7554.5	7552.5	5649.1
47.5°	6335.2	6320.7	6441.4	6694.2	7066.6	7431.8	8004.3	8071.4	7859.9	7752.6	5859.6
50°	5441.8	5483.1	5673.9	6053.5	6619.9	7230.6	8001.2	8117.8	7871.2	7735.1	5824.5
52.5°	3941.8	3933.6	4351.4	4873.4	5562.5	6586.9	7576.2	7746.4	7595.8	7562.8	5746.1
55°	2144.7	2220.0	2501.7	3192.9	4053.2	5368.5	6605.5	6976.8	7151.2	7499.9	5887.4
57.5°	788.2	821.2	997.6	1486.6	2145.8	3338.3	5045.6	5605.8	6144.3	7324.5	5863.7
60°	317.7	323.9	394.1	546.8	901.6	1699.1	3026.8	3524.0	4031.6	5606.8	4499.9
62.5°	231.1	239.3	267.2	319.8	456.0	742.8	1305.0	1517.5	1658.8	2777.1	2216.9
65°	186.7	192.9	215.6	239.3	301.2	399.2	420.9	405.4	403.4	718.0	508.6
67.5°	154.7	160.9	177.4	193.9	216.6	199.1	144.4	151.6	123.8	122.8	100.1
70°	113.5	120.7	137.2	154.7	130.0	53.6	83.6	123.8	93.9	78.4	76.3
72.5°	85.6	90.8	106.3	101.1	38.2	20.6	55.7	89.8	72.2	57.8	56.7
75°	64.0	67.1	53.6	16.5	4.1	5.2	20.6	37.1	40.2	33.0	33.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.1	4.1	5.2	6.2
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°	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3	1152.3
2.5°	1176.0	1132.7	1070.8	1019.2	980.0	941.9	913.0	884.1	883.1	868.6	865.5
5°	1225.6	1147.2	1033.7	952.2	902.7	872.7	852.1	841.8	836.6	831.5	829.4
7.5°	1296.7	1184.3	1027.5	940.8	899.6	880.0	865.5	859.3	856.2	852.1	851.1
10°	1384.4	1237.9	1050.2	962.5	926.4	907.8	892.3	883.1	877.9	870.7	868.6
12.5°	1489.7	1304.0	1086.3	998.6	960.4	935.7	915.0	901.6	894.4	885.1	883.1
15°	1603.1	1375.1	1126.5	1031.6	986.2	954.2	928.5	907.8	894.4	883.1	880.0
17.5°	1720.7	1447.4	1162.6	1054.3	998.6	960.4	923.3	895.4	878.9	864.5	860.4
20°	1852.8	1521.6	1186.4	1058.4	994.5	943.9	900.6	865.5	849.0	829.4	825.3
22.5°	1991.0	1590.8	1196.7	1049.2	971.8	913.0	866.6	830.5	806.7	786.1	779.9
25°	2125.1	1652.7	1191.5	1023.4	937.7	869.7	822.2	785.1	759.3	738.6	733.5
27.5°	2267.5	1704.2	1172.9	985.2	891.3	822.2	776.8	744.8	721.1	698.4	693.2
30°	2427.4	1751.7	1143.0	938.8	836.6	773.7	738.6	717.0	691.2	667.5	660.2
32.5°	2620.3	1794.0	1099.7	883.1	788.2	731.4	711.8	695.3	665.4	640.6	635.5
35°	2841.1	1829.1	1045.0	825.3	740.7	704.6	700.5	678.8	639.6	610.7	604.5
37.5°	3096.9	1863.1	980.0	768.6	705.6	692.2	693.2	656.1	608.7	573.6	569.5
40°	3372.4	1897.1	907.8	719.0	673.6	685.0	675.7	623.1	545.7	511.7	507.6
42.5°	3659.1	1934.3	834.6	672.6	646.8	657.1	643.7	557.1	501.4	483.8	481.8
45°	3918.1	1978.6	755.1	626.2	620.0	616.9	594.2	504.5	480.7	468.4	467.3
47.5°	4104.8	1971.4	670.6	581.8	591.1	580.8	511.7	479.7	460.1	443.6	439.5
50°	4070.8	1845.6	582.9	532.3	554.0	544.7	460.1	450.8	433.3	415.7	409.6
52.5°	3984.1	1674.3	506.5	479.7	513.7	492.1	425.0	415.7	400.3	377.6	370.4
55°	4030.5	1513.4	446.7	437.4	472.5	407.5	385.8	371.4	354.9	330.1	327.0
57.5°	3880.9	1234.8	359.0	365.2	417.8	347.7	338.4	315.7	287.8	271.3	269.3
60°	2686.3	663.3	224.9	232.1	302.3	291.9	303.3	282.7	248.6	233.1	230.1
62.5°	1233.8	266.2	122.8	117.6	158.9	198.1	260.0	257.9	215.6	190.8	188.8
65°	299.2	121.7	87.7	82.5	89.8	118.6	169.2	203.2	174.3	145.5	142.4
67.5°	97.0	99.0	80.5	75.3	79.4	88.7	101.1	112.4	111.4	102.1	100.1
70°	77.4	89.8	74.3	68.1	68.1	71.2	68.1	54.7	47.5	51.6	53.6
72.5°	57.8	68.1	58.8	52.6	50.5	49.5	42.3	30.9	21.7	19.6	18.6
75°	34.0	38.2	36.1	30.9	28.9	25.8	20.6	13.4	7.2	5.2	3.1
77.5°	6.2	7.2	8.3	6.2	5.2	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)