

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: P636567

Luminaire Tested: GWS-SA4B-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636567  
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-SA4B-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**

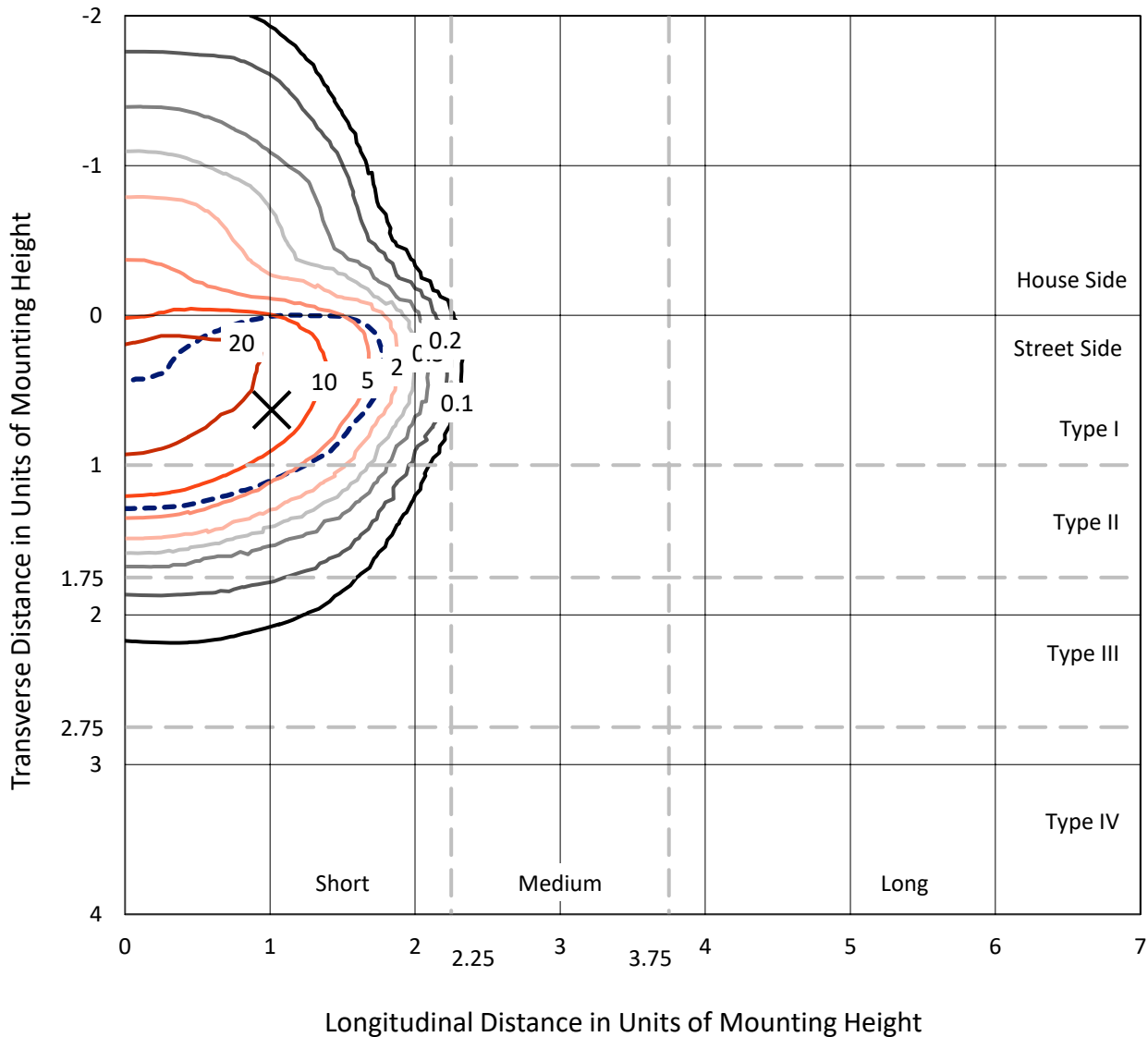
Lumens per Lamp: N/A  
Luminaire Lumens: 7147 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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

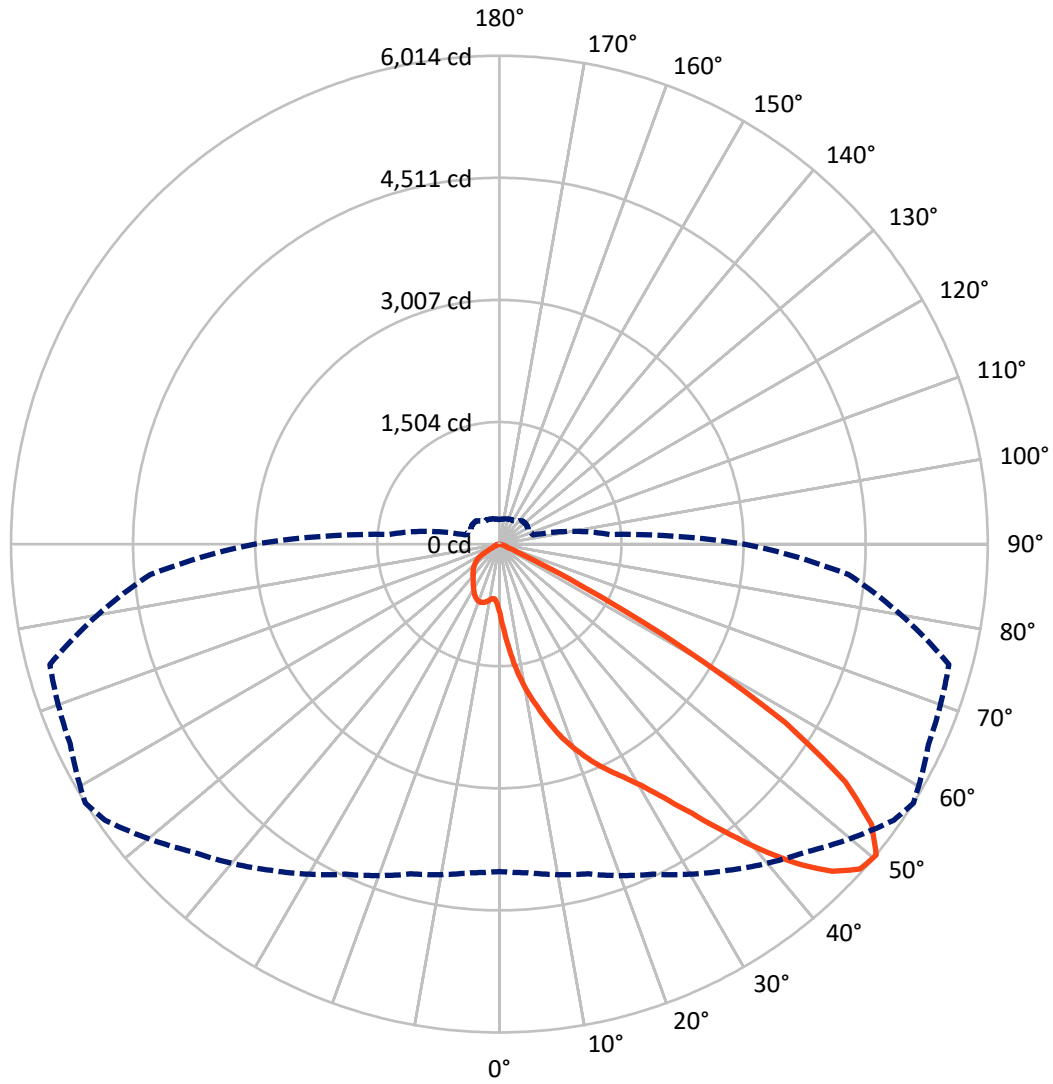
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.2 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
<b>House Side</b>	Lumens	1001.0	0.0	1001.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6146.0	0.0	6146.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7147.0	0.0	7147.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.8	1.5
10°-20°	418.7	5.9
20°-30°	847.2	11.9
30°-40°	1498.8	21.0
40°-50°	2184.9	30.6
50°-60°	1751.3	24.5
60°-70°	315.5	4.4
70°-80°	24.9	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°	7147.0	100.0
0°-180°	7147.0	100.0

**Coefficient of Utilization**



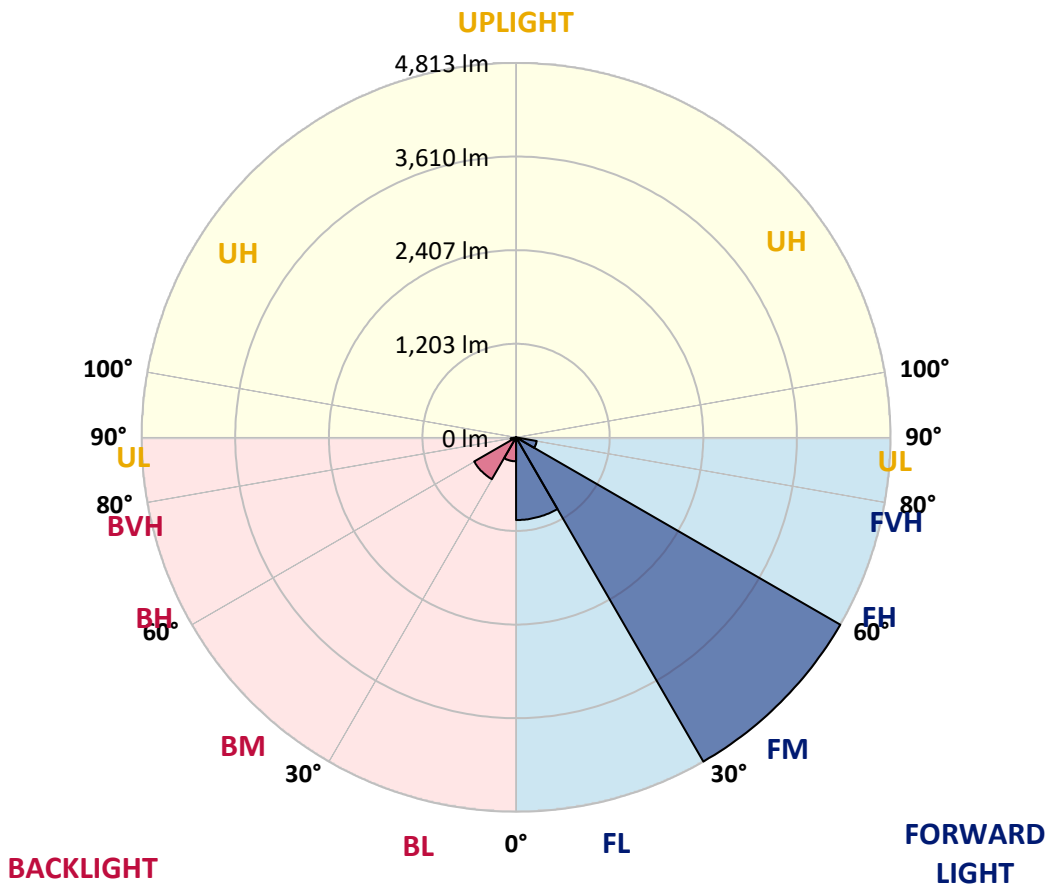
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.5	14.9			
FM (30°-60°)	4813.3	67.3			
FH (60°-80°)	269.2	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	308.2	4.3	B1/500		
BM (30°-60°)	621.7	8.7	B1/1000		
BH (60°-80°)	71.1	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°	853.7	853.7	853.7	853.7	853.7	853.7	853.7	853.7	853.7	853.7	853.7
2.5°	1263.3	1243.5	1232.0	1222.8	1182.3	1118.1	1076.1	1053.9	1017.3	955.3	901.8
5°	1648.5	1634.0	1607.3	1588.9	1537.0	1446.0	1352.0	1314.6	1231.2	1091.4	966.0
7.5°	1903.8	1893.1	1883.2	1858.7	1809.8	1727.3	1623.3	1584.3	1455.9	1257.2	1051.6
10°	2100.2	2091.8	2080.4	2079.6	2041.4	1967.2	1865.6	1825.1	1686.0	1437.6	1152.5
12.5°	2273.0	2266.1	2263.8	2285.2	2260.7	2205.7	2095.6	2045.2	1897.7	1621.8	1264.1
15°	2391.4	2389.9	2399.8	2441.9	2455.6	2430.4	2337.9	2283.7	2114.0	1806.7	1387.2
17.5°	2445.7	2450.3	2469.4	2542.0	2603.1	2624.5	2553.4	2507.6	2328.8	1994.0	1518.6
20°	2538.2	2536.6	2548.1	2616.9	2691.8	2768.2	2746.8	2707.8	2545.8	2191.9	1664.6
22.5°	2798.8	2776.6	2752.2	2762.9	2789.6	2879.0	2918.8	2898.9	2769.7	2395.2	1815.2
25°	3199.3	3176.3	3097.6	3021.2	2970.7	3011.2	3065.5	3075.4	2992.1	2603.9	1972.6
27.5°	3624.2	3603.6	3514.9	3400.3	3255.8	3185.5	3226.0	3245.9	3210.7	2852.3	2140.0
30°	4022.4	3994.9	3897.8	3755.7	3588.3	3480.5	3434.7	3448.4	3469.1	3146.5	2336.4
32.5°	4367.8	4347.2	4231.0	4081.2	3920.0	3807.6	3700.6	3723.6	3774.0	3506.5	2587.8
35°	4660.6	4649.9	4526.8	4377.8	4207.3	4150.0	4058.3	4062.9	4113.3	3941.4	2894.3
37.5°	4915.1	4896.7	4785.1	4646.8	4511.5	4502.4	4477.1	4479.4	4505.4	4448.1	3246.6
40°	5075.6	5058.7	4979.3	4893.7	4797.4	4798.9	4929.6	4939.5	4909.7	4945.6	3618.8
42.5°	5135.9	5123.7	5080.9	5081.7	5071.7	5116.8	5362.2	5380.5	5273.5	5336.2	3936.8
45°	5031.2	5025.9	5028.9	5139.0	5258.2	5397.3	5716.0	5748.1	5596.8	5595.3	4185.2
47.5°	4693.4	4682.7	4772.1	4959.4	5235.3	5505.8	5930.0	5979.7	5823.0	5743.5	4341.1
50°	4031.6	4062.1	4203.5	4484.8	4904.4	5356.8	5927.7	6014.1	5831.4	5730.5	4315.1
52.5°	2920.3	2914.2	3223.7	3610.4	4121.0	4879.9	5612.8	5739.0	5627.4	5602.9	4257.0
55°	1588.9	1644.7	1853.4	2365.4	3002.8	3977.3	4893.7	5168.8	5298.0	5556.3	4361.7
57.5°	583.9	608.4	739.1	1101.3	1589.7	2473.2	3738.1	4153.1	4552.0	5426.4	4344.1
60°	235.4	240.0	292.0	405.1	668.0	1258.8	2242.4	2610.8	2986.8	4153.8	3333.8
62.5°	171.2	177.3	197.9	236.9	337.8	550.3	966.8	1124.3	1229.0	2057.4	1642.4
65°	138.3	142.9	159.7	177.3	223.2	295.8	311.8	300.4	298.8	531.9	376.8
67.5°	114.6	119.2	131.5	143.7	160.5	147.5	107.0	112.3	91.7	90.9	74.1
70°	84.1	89.4	101.6	114.6	96.3	39.7	61.9	91.7	69.5	58.1	56.6
72.5°	63.4	67.3	78.7	74.9	28.3	15.3	41.3	66.5	53.5	42.8	42.0
75°	47.4	49.7	39.7	12.2	3.1	3.8	15.3	27.5	29.8	24.5	24.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.3	3.1	3.8	4.6
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°	853.7	853.7	853.7	853.7	853.7	853.7	853.7	853.7	853.7	853.7	853.7
2.5°	871.3	839.2	793.3	755.1	726.1	697.8	676.4	655.0	654.2	643.5	641.2
5°	908.0	849.9	765.8	705.4	668.7	646.6	631.3	623.6	619.8	616.0	614.5
7.5°	960.7	877.4	761.2	697.0	666.4	651.9	641.2	636.6	634.3	631.3	630.5
10°	1025.7	917.1	778.0	713.1	686.3	672.6	661.1	654.2	650.4	645.0	643.5
12.5°	1103.6	966.0	804.8	739.8	711.5	693.2	677.9	668.0	662.6	655.7	654.2
15°	1187.7	1018.8	834.6	764.3	730.6	707.0	687.8	672.6	662.6	654.2	651.9
17.5°	1274.8	1072.3	861.3	781.1	739.8	711.5	684.0	663.4	651.2	640.5	637.4
20°	1372.6	1127.3	878.9	784.1	736.8	699.3	667.2	641.2	629.0	614.5	611.4
22.5°	1475.1	1178.5	886.6	777.3	719.9	676.4	642.0	615.2	597.7	582.4	577.8
25°	1574.4	1224.4	882.7	758.2	694.7	644.3	609.1	581.6	562.5	547.2	543.4
27.5°	1679.9	1262.6	869.0	729.9	660.3	609.1	575.5	551.8	534.2	517.4	513.6
30°	1798.3	1297.7	846.8	695.5	619.8	573.2	547.2	531.2	512.1	494.5	489.1
32.5°	1941.3	1329.1	814.7	654.2	583.9	541.9	527.4	515.1	493.0	474.6	470.8
35°	2104.8	1355.1	774.2	611.4	548.8	522.0	518.9	502.9	473.9	452.5	447.9
37.5°	2294.4	1380.3	726.1	569.4	522.8	512.8	513.6	486.1	450.9	424.9	421.9
40°	2498.4	1405.5	672.6	532.7	499.1	507.5	500.6	461.6	404.3	379.1	376.0
42.5°	2710.9	1433.0	618.3	498.3	479.2	486.8	476.9	412.7	371.4	358.4	356.9
45°	2902.7	1465.9	559.5	463.9	459.3	457.0	440.2	373.7	356.2	347.0	346.2
47.5°	3041.1	1460.5	496.8	431.1	437.9	430.3	379.1	355.4	340.9	328.6	325.6
50°	3015.8	1367.3	431.8	394.4	410.4	403.5	340.9	334.0	321.0	308.0	303.4
52.5°	2951.6	1240.4	375.3	355.4	380.6	364.6	314.9	308.0	296.5	279.7	274.4
55°	2986.0	1121.2	330.9	324.1	350.0	301.9	285.8	275.1	262.9	244.6	242.3
57.5°	2875.2	914.8	266.0	270.6	309.5	257.6	250.7	233.9	213.2	201.0	199.5
60°	1990.2	491.4	166.6	172.0	223.9	216.3	224.7	209.4	184.2	172.7	170.4
62.5°	914.1	197.2	90.9	87.1	117.7	146.7	192.6	191.1	159.7	141.4	139.9
65°	221.6	90.2	65.0	61.1	66.5	87.9	125.3	150.6	129.2	107.8	105.5
67.5°	71.8	73.4	59.6	55.8	58.8	65.7	74.9	83.3	82.5	75.7	74.1
70°	57.3	66.5	55.0	50.4	50.4	52.7	50.4	40.5	35.2	38.2	39.7
72.5°	42.8	50.4	43.6	39.0	37.4	36.7	31.3	22.9	16.0	14.5	13.8
75°	25.2	28.3	26.7	22.9	21.4	19.1	15.3	9.9	5.3	3.8	2.3
77.5°	4.6	5.3	6.1	4.6	3.8	3.1	2.3	0.8	0.0	0.0	0.0
80°	0.0	0.8	0.8	0.8	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)