

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: P633102

Luminaire Tested: GWS-SA2E-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633102  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

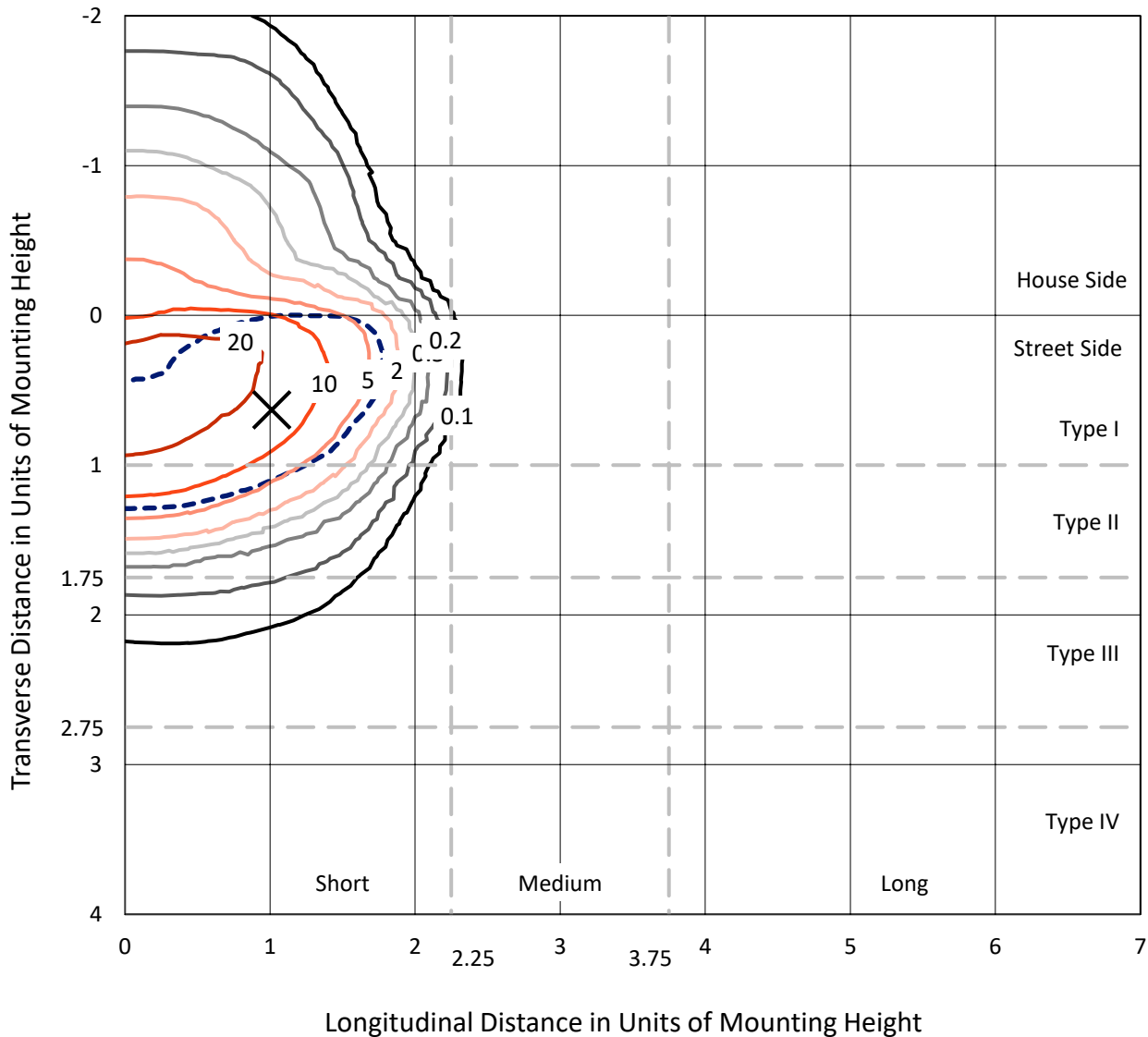
Lumens per Lamp: N/A  
Luminaire Lumens: 7204.7 lumens  
Efficiency: N/A  
Efficacy: 66.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

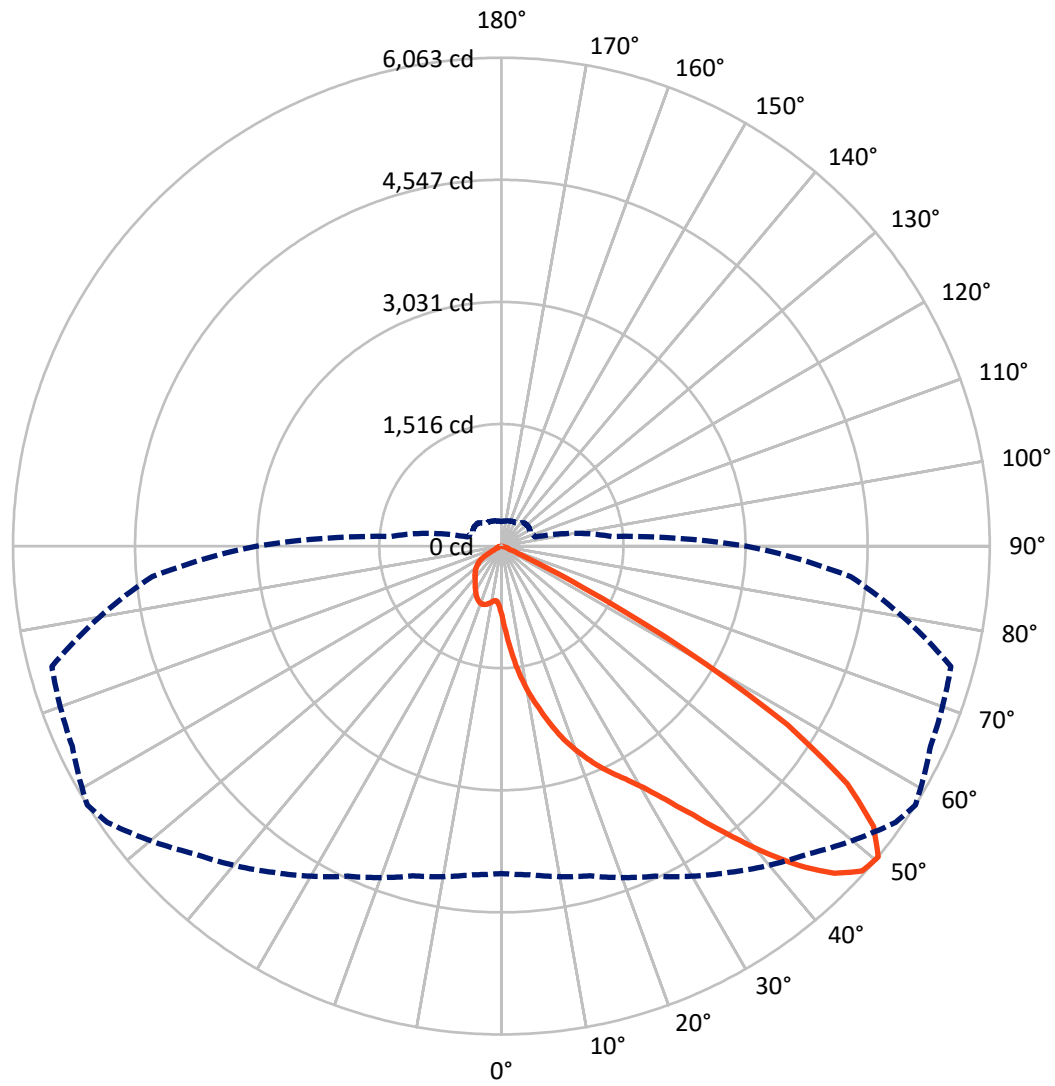
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.4 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
<b>House Side</b>	Lumens	1009.1	0.0	1009.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6195.6	0.0	6195.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7204.7	0.0	7204.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.6	1.5
10°-20°	422.1	5.9
20°-30°	854.0	11.9
30°-40°	1510.9	21.0
40°-50°	2202.6	30.6
50°-60°	1765.4	24.5
60°-70°	318.0	4.4
70°-80°	25.1	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°	7204.7	100.0
0°-180°	7204.7	100.0

**Coefficient of Utilization**



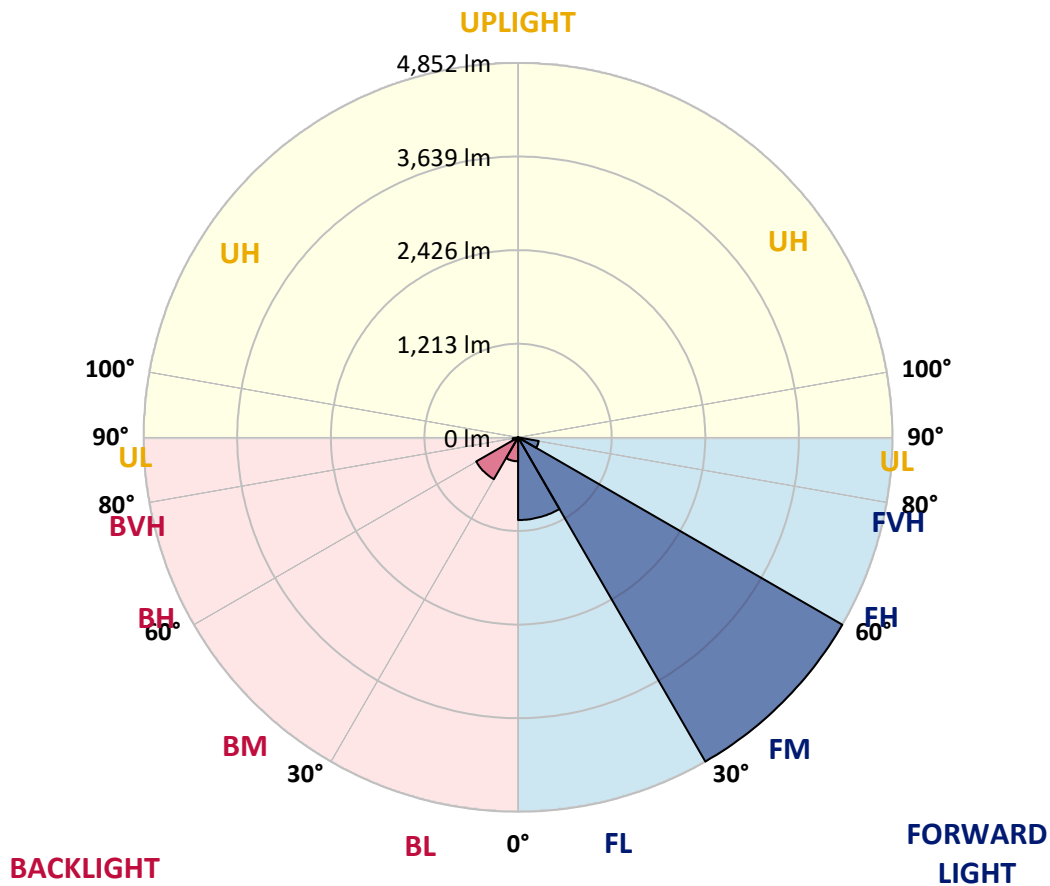
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.0	14.9			
FM (30°-60°)	4852.2	67.3			
FH (60°-80°)	271.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	310.7	4.3	B1/500		
BM (30°-60°)	626.7	8.7	B1/1000		
BH (60°-80°)	71.7	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°	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6
2.5°	1273.5	1253.5	1242.0	1232.7	1191.9	1127.2	1084.8	1062.4	1025.5	963.1	909.1
5°	1661.9	1647.2	1620.2	1601.8	1549.4	1457.7	1362.9	1325.2	1241.2	1100.2	973.8
7.5°	1919.2	1908.4	1898.4	1873.7	1824.4	1741.2	1636.4	1597.1	1467.7	1267.4	1060.1
10°	2117.2	2108.7	2097.2	2096.4	2057.9	1983.1	1880.7	1839.8	1699.6	1449.2	1161.8
12.5°	2291.3	2284.4	2282.1	2303.6	2279.0	2223.5	2112.6	2061.7	1913.0	1634.9	1274.3
15°	2410.7	2409.2	2419.2	2461.6	2475.4	2450.0	2356.8	2302.1	2131.1	1821.3	1398.4
17.5°	2465.4	2470.1	2489.3	2562.5	2624.1	2645.7	2574.1	2527.8	2347.6	2010.1	1530.9
20°	2558.7	2557.1	2568.7	2638.0	2713.5	2790.6	2769.0	2729.7	2566.4	2209.6	1678.0
22.5°	2821.4	2799.0	2774.4	2785.2	2812.1	2902.3	2942.3	2922.3	2792.1	2414.6	1829.8
25°	3225.1	3202.0	3122.6	3045.6	2994.7	3035.6	3090.3	3100.3	3016.3	2624.9	1988.5
27.5°	3653.5	3632.7	3543.3	3427.7	3282.1	3211.2	3252.1	3272.1	3236.6	2875.3	2157.3
30°	4054.9	4027.1	3929.3	3786.0	3617.2	3508.6	3462.4	3476.3	3497.1	3171.9	2355.3
32.5°	4403.1	4382.3	4265.2	4114.2	3951.6	3838.4	3730.5	3753.6	3804.5	3534.8	2608.7
35°	4698.2	4687.4	4563.4	4413.1	4241.3	4183.5	4091.1	4095.7	4146.5	3973.2	2917.7
37.5°	4954.7	4936.3	4823.8	4684.3	4547.9	4538.7	4513.3	4515.6	4541.8	4484.0	3272.9
40°	5116.5	5099.6	5019.5	4933.2	4836.1	4837.6	4969.4	4979.4	4949.4	4985.6	3648.1
42.5°	5177.4	5165.1	5121.9	5122.7	5112.7	5158.1	5405.5	5423.9	5316.1	5379.3	3968.6
45°	5071.9	5066.5	5069.5	5180.5	5300.7	5440.9	5762.2	5794.5	5642.0	5640.4	4219.0
47.5°	4731.3	4720.5	4810.7	4999.4	5277.6	5550.3	5977.9	6028.0	5870.0	5789.9	4376.1
50°	4064.1	4094.9	4237.5	4521.0	4944.0	5400.1	5975.6	6062.6	5878.5	5776.8	4349.9
52.5°	2943.9	2937.7	3249.7	3639.6	4154.2	4919.3	5658.2	5785.3	5672.8	5648.1	4291.4
55°	1601.8	1658.0	1868.3	2384.5	3027.1	4009.4	4933.2	5210.5	5340.7	5601.1	4396.9
57.5°	588.6	613.3	745.0	1110.2	1602.5	2493.2	3768.3	4186.6	4588.8	5470.2	4379.2
60°	237.3	241.9	294.3	408.3	673.4	1268.9	2260.5	2631.8	3010.9	4187.4	3360.7
62.5°	172.6	178.7	199.5	238.8	340.5	554.7	974.6	1133.3	1238.9	2074.0	1655.7
65°	139.5	144.1	161.0	178.7	225.0	298.2	314.3	302.8	301.2	536.2	379.8
67.5°	115.6	120.2	132.5	144.8	161.8	148.7	107.9	113.3	92.5	91.7	74.7
70°	84.7	90.1	102.5	115.6	97.1	40.1	62.4	92.5	70.1	58.6	57.0
72.5°	63.9	67.8	79.4	75.5	28.5	15.4	41.6	67.0	53.9	43.1	42.4
75°	47.8	50.1	40.1	12.3	3.1	3.9	15.4	27.7	30.0	24.7	24.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.3	3.1	3.9	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°	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6	860.6
2.5°	878.3	846.0	799.7	761.2	731.9	703.4	681.8	660.3	659.5	648.7	646.4
5°	915.3	856.7	772.0	711.1	674.1	651.8	636.4	628.7	624.8	621.0	619.4
7.5°	968.5	884.5	767.4	702.6	671.8	657.2	646.4	641.8	639.5	636.4	635.6
10°	1033.9	924.5	784.3	718.8	691.9	678.0	666.4	659.5	655.7	650.3	648.7
12.5°	1112.5	973.8	811.3	745.8	717.3	698.8	683.4	673.4	668.0	661.0	659.5
15°	1197.3	1027.0	841.3	770.4	736.5	712.7	693.4	678.0	668.0	659.5	657.2
17.5°	1285.1	1080.9	868.3	787.4	745.8	717.3	689.5	668.7	656.4	645.6	642.6
20°	1383.7	1136.4	886.0	790.5	742.7	705.0	672.6	646.4	634.1	619.4	616.4
22.5°	1487.0	1188.0	893.7	783.5	725.8	681.8	647.2	620.2	602.5	587.1	582.5
25°	1587.1	1234.3	889.9	764.3	700.3	649.5	614.0	586.3	567.0	551.6	547.8
27.5°	1693.4	1272.8	876.0	735.8	665.7	614.0	580.1	556.3	538.5	521.6	517.7
30°	1812.9	1308.2	853.7	701.1	624.8	577.8	551.6	535.5	516.2	498.5	493.1
32.5°	1956.9	1339.8	821.3	659.5	588.6	546.2	531.6	519.3	496.9	478.4	474.6
35°	2121.8	1366.0	780.5	616.4	553.2	526.2	523.1	507.0	477.7	456.1	451.5
37.5°	2312.9	1391.4	731.9	574.0	527.0	517.0	517.7	490.0	454.6	428.4	425.3
40°	2518.6	1416.9	678.0	537.0	503.1	511.6	504.6	465.3	407.6	382.1	379.1
42.5°	2732.8	1444.6	623.3	502.3	483.1	490.8	480.8	416.0	374.4	361.3	359.8
45°	2926.2	1477.7	564.0	467.7	463.0	460.7	443.8	376.7	359.0	349.8	349.0
47.5°	3065.6	1472.3	500.8	434.5	441.5	433.8	382.1	358.3	343.6	331.3	328.2
50°	3040.2	1378.3	435.3	397.6	413.7	406.8	343.6	336.7	323.6	310.5	305.9
52.5°	2975.5	1250.4	378.3	358.3	383.7	367.5	317.4	310.5	298.9	282.0	276.6
55°	3010.1	1130.2	333.6	326.7	352.9	304.3	288.1	277.4	265.0	246.5	244.2
57.5°	2898.4	922.2	268.1	272.7	312.0	259.6	252.7	235.8	215.0	202.6	201.1
60°	2006.2	495.4	168.0	173.4	225.7	218.0	226.5	211.1	185.7	174.1	171.8
62.5°	921.5	198.8	91.7	87.8	118.6	147.9	194.2	192.6	161.0	142.5	141.0
65°	223.4	90.9	65.5	61.6	67.0	88.6	126.4	151.8	130.2	108.6	106.3
67.5°	72.4	74.0	60.1	56.2	59.3	66.3	75.5	84.0	83.2	76.3	74.7
70°	57.8	67.0	55.5	50.8	50.8	53.2	50.8	40.8	35.4	38.5	40.1
72.5°	43.1	50.8	43.9	39.3	37.8	37.0	31.6	23.1	16.2	14.6	13.9
75°	25.4	28.5	27.0	23.1	21.6	19.3	15.4	10.0	5.4	3.9	2.3
77.5°	4.6	5.4	6.2	4.6	3.9	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)