

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: P632827

Luminaire Tested: GWS-SA2D-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632827  
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

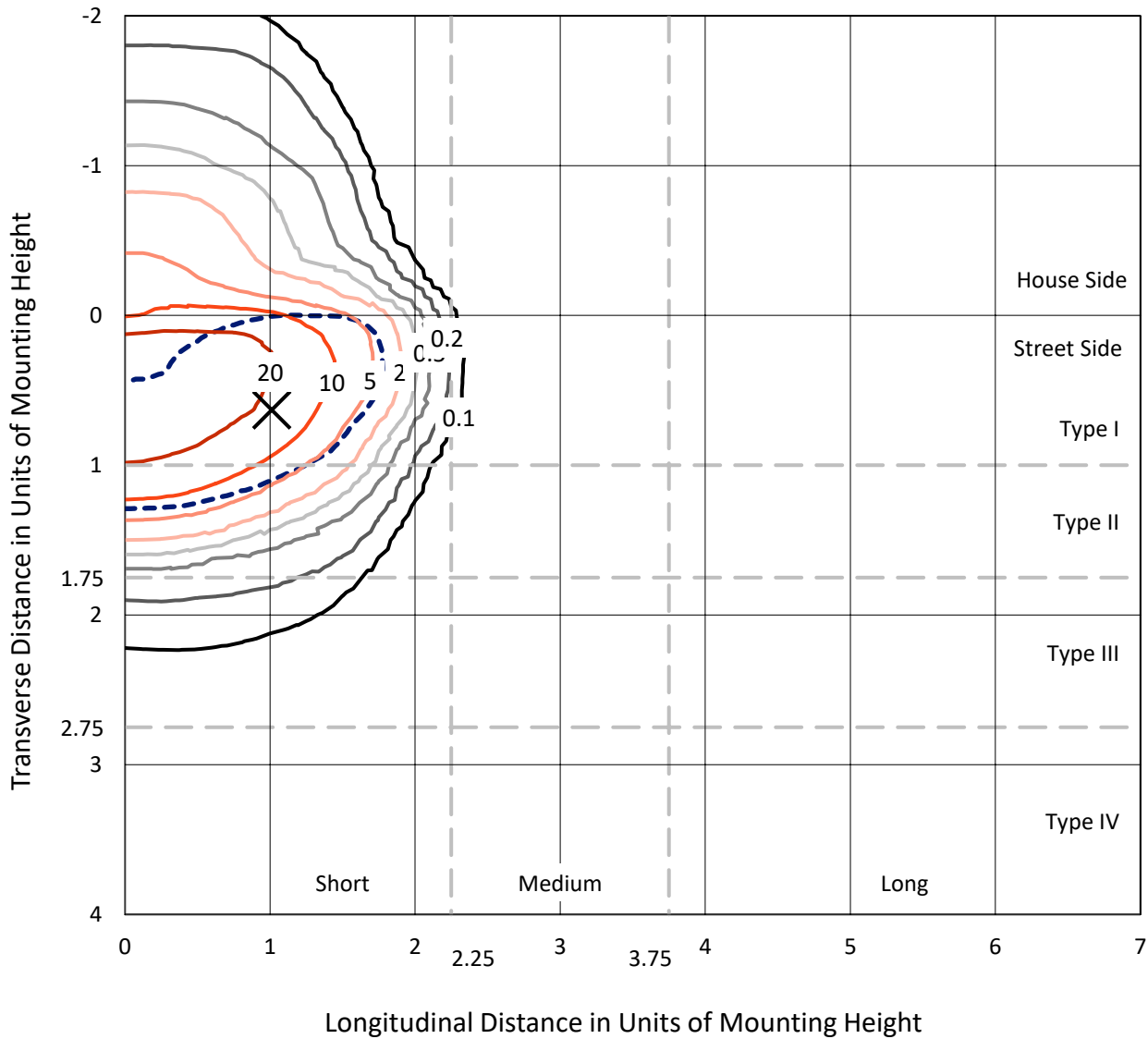
Lumens per Lamp: N/A  
Luminaire Lumens: 7827 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

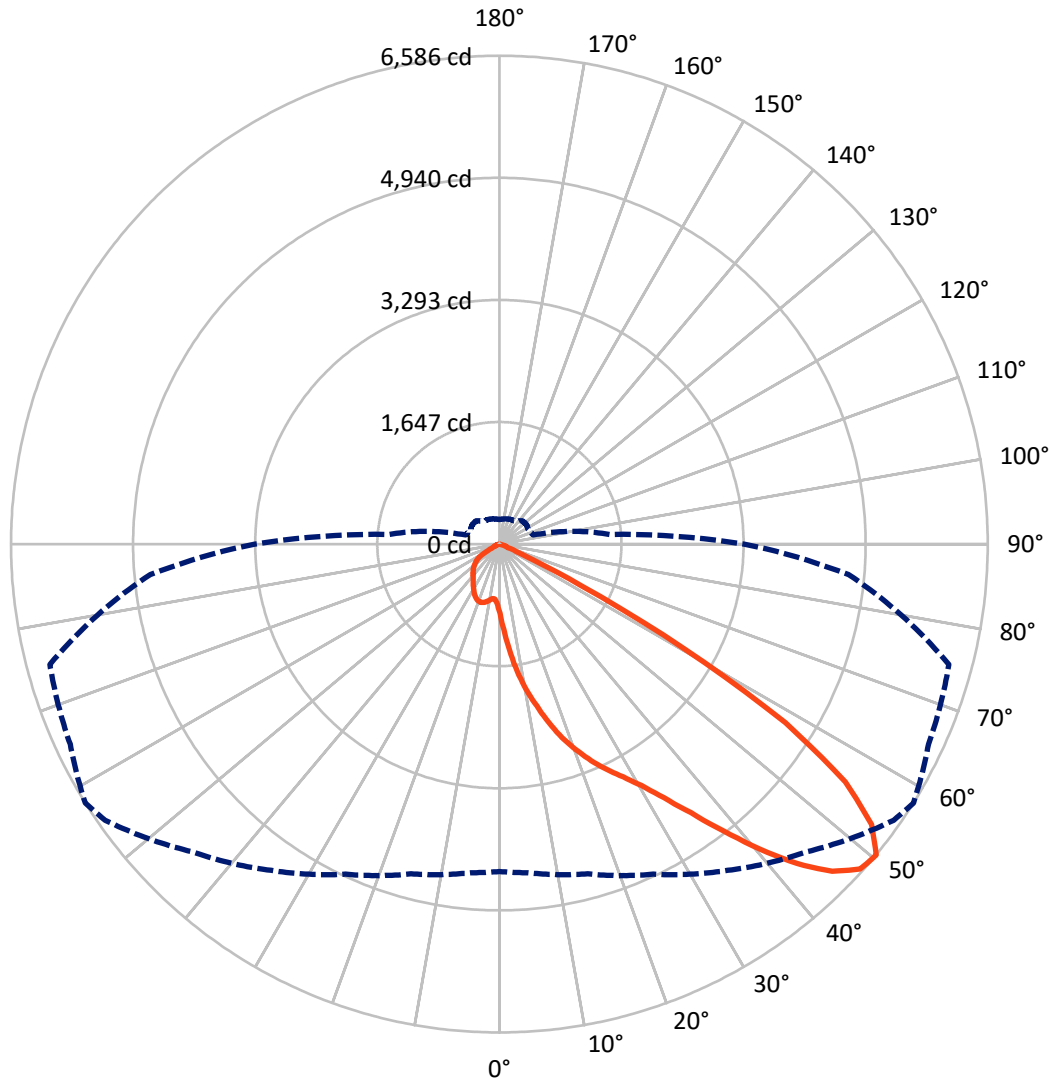
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.7 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	1096.3	0.0	1096.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6730.7	0.0	6730.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7827.0	0.0	7827.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.8	1.5
10°-20°	458.5	5.9
20°-30°	927.8	11.9
30°-40°	1641.4	21.0
40°-50°	2392.8	30.6
50°-60°	1917.9	24.5
60°-70°	345.5	4.4
70°-80°	27.2	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°	7827.0	100.0
0°-180°	7827.0	100.0

**Coefficient of Utilization**



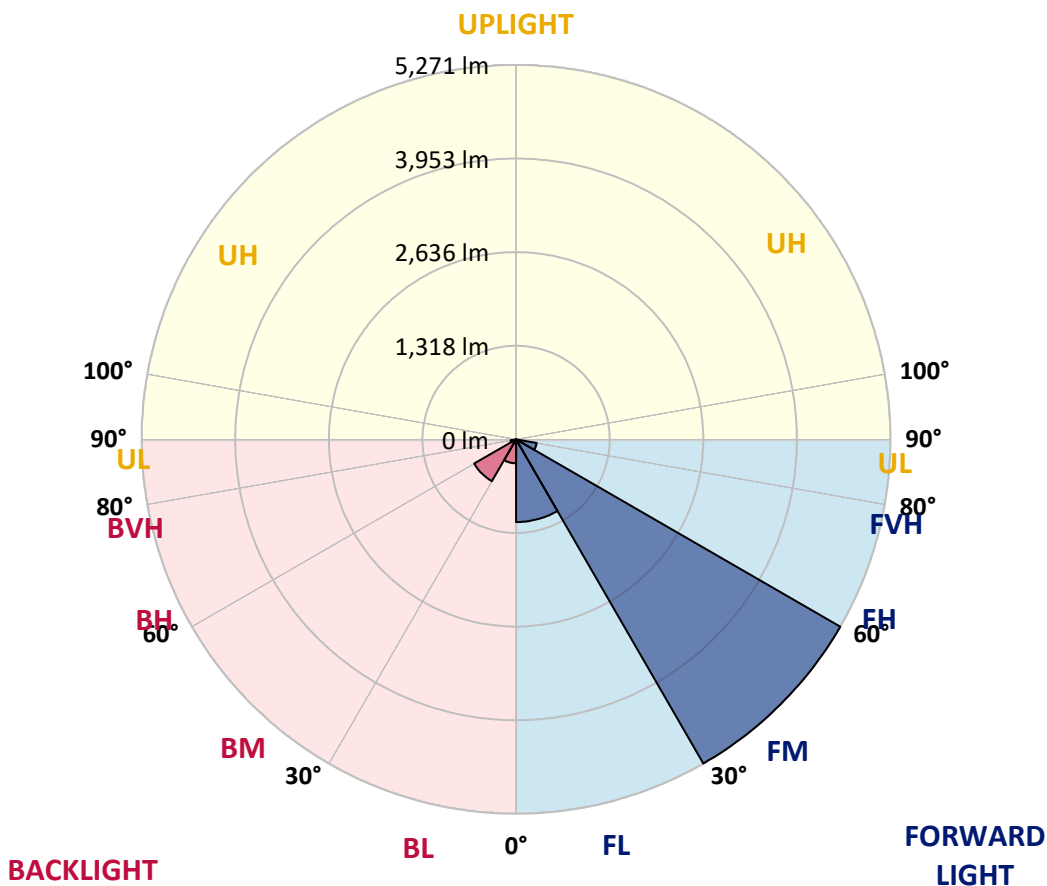
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.6	14.9			
FM (30°-60°)	5271.3	67.3			
FH (60°-80°)	294.8	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	337.5	4.3	B1/500		
BM (30°-60°)	680.8	8.7	B1/1000		
BH (60°-80°)	77.9	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°	934.9	934.9	934.9	934.9	934.9	934.9	934.9	934.9	934.9	934.9	934.9
2.5°	1383.6	1361.8	1349.2	1339.2	1294.8	1224.5	1178.5	1154.2	1114.0	1046.2	987.7
5°	1805.4	1789.5	1760.2	1740.1	1683.2	1583.6	1480.6	1439.6	1348.4	1195.2	1058.0
7.5°	2085.0	2073.2	2062.4	2035.6	1982.0	1891.6	1777.8	1735.1	1594.5	1376.9	1151.7
10°	2300.1	2290.9	2278.3	2277.5	2235.6	2154.4	2043.1	1998.7	1846.4	1574.4	1262.2
12.5°	2489.2	2481.7	2479.2	2502.6	2475.8	2415.6	2295.0	2239.8	2078.3	1776.1	1384.4
15°	2619.0	2617.3	2628.2	2674.2	2689.3	2661.6	2560.4	2500.9	2315.1	1978.7	1519.1
17.5°	2678.4	2683.4	2704.3	2783.8	2850.8	2874.2	2796.4	2746.2	2550.3	2183.7	1663.1
20°	2779.7	2778.0	2790.5	2865.9	2947.9	3031.6	3008.2	2965.5	2788.0	2400.5	1823.0
22.5°	3065.1	3040.8	3014.0	3025.7	3055.0	3153.0	3196.5	3174.7	3033.3	2623.1	1987.9
25°	3503.7	3478.5	3392.3	3308.6	3253.4	3297.8	3357.2	3368.1	3276.8	2851.6	2160.3
27.5°	3969.0	3946.4	3849.3	3723.8	3565.6	3488.6	3532.9	3554.7	3516.2	3123.7	2343.6
30°	4405.1	4375.0	4268.7	4113.0	3929.7	3811.7	3761.4	3776.5	3799.1	3445.9	2558.7
32.5°	4783.4	4760.8	4633.6	4469.5	4292.9	4169.9	4052.7	4077.8	4133.1	3840.1	2834.1
35°	5104.0	5092.3	4957.5	4794.3	4607.6	4544.9	4444.4	4449.5	4504.7	4316.4	3169.7
37.5°	5382.7	5362.6	5240.4	5088.9	4940.8	4930.7	4903.1	4905.6	4934.1	4871.3	3555.5
40°	5558.5	5540.1	5453.0	5359.3	5253.8	5255.5	5398.6	5409.5	5376.8	5416.2	3963.2
42.5°	5624.6	5611.2	5564.3	5565.2	5554.3	5603.7	5872.3	5892.4	5775.3	5843.9	4311.4
45°	5509.9	5504.1	5507.4	5627.9	5758.5	5910.8	6259.9	6295.0	6129.3	6127.6	4583.4
47.5°	5140.0	5128.3	5226.2	5431.3	5733.4	6029.7	6494.2	6548.6	6377.1	6290.0	4754.1
50°	4415.1	4448.6	4603.5	4911.5	5371.0	5866.5	6491.7	6586.3	6386.3	6275.8	4725.7
52.5°	3198.2	3191.5	3530.4	3954.0	4513.1	5344.2	6146.9	6285.0	6162.8	6136.0	4662.1
55°	1740.1	1801.2	2029.7	2590.5	3288.5	4355.7	5359.3	5660.6	5802.0	6084.9	4776.7
57.5°	639.5	666.2	809.4	1206.1	1740.9	2708.5	4093.7	4548.2	4985.1	5942.7	4757.5
60°	257.8	262.8	319.7	443.6	731.5	1378.5	2455.7	2859.2	3271.0	4549.1	3651.0
62.5°	187.5	194.2	216.8	259.5	370.0	602.6	1058.8	1231.2	1345.9	2253.2	1798.7
65°	151.5	156.5	174.9	194.2	244.4	323.9	341.5	328.9	327.3	582.5	412.6
67.5°	125.5	130.6	144.0	157.4	175.8	161.5	117.2	123.0	100.4	99.6	81.2
70°	92.1	97.9	111.3	125.5	105.5	43.5	67.8	100.4	76.2	63.6	61.9
72.5°	69.5	73.7	86.2	82.0	31.0	16.7	45.2	72.8	58.6	46.9	46.0
75°	51.9	54.4	43.5	13.4	3.3	4.2	16.7	30.1	32.6	26.8	26.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.5	3.3	4.2	5.0
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°	934.9	934.9	934.9	934.9	934.9	934.9	934.9	934.9	934.9	934.9	934.9
2.5°	954.2	919.0	868.8	826.9	795.1	764.2	740.7	717.3	716.5	704.7	702.2
5°	994.3	930.7	838.7	772.5	732.4	708.1	691.4	683.0	678.8	674.6	672.9
7.5°	1052.1	960.9	833.6	763.3	729.9	714.0	702.2	697.2	694.7	691.4	690.5
10°	1123.2	1004.4	852.1	780.9	751.6	736.6	724.0	716.5	712.3	706.4	704.7
12.5°	1208.6	1058.0	881.4	810.2	779.2	759.2	742.4	731.5	725.7	718.1	716.5
15°	1300.7	1115.7	914.0	837.0	800.2	774.2	753.3	736.6	725.7	716.5	714.0
17.5°	1396.1	1174.3	943.3	855.4	810.2	779.2	749.1	726.5	713.1	701.4	698.1
20°	1503.2	1234.6	962.5	858.8	806.9	765.8	730.7	702.2	688.8	672.9	669.6
22.5°	1615.4	1290.6	970.9	851.2	788.4	740.7	703.1	673.8	654.5	637.8	632.8
25°	1724.2	1340.9	966.7	830.3	760.8	705.6	667.1	637.0	616.0	599.3	595.1
27.5°	1839.7	1382.7	951.7	799.3	723.2	667.1	630.3	604.3	585.1	566.6	562.5
30°	1969.4	1421.2	927.4	761.7	678.8	627.7	599.3	581.7	560.8	541.5	535.7
32.5°	2126.0	1455.5	892.2	716.5	639.5	593.4	577.5	564.1	539.9	519.8	515.6
35°	2305.1	1484.0	847.9	669.6	601.0	571.7	568.3	550.7	518.9	495.5	490.5
37.5°	2512.7	1511.6	795.1	623.6	572.5	561.6	562.5	532.3	493.8	465.4	462.0
40°	2736.1	1539.2	736.6	583.4	546.6	555.8	548.2	505.5	442.8	415.1	411.8
42.5°	2968.8	1569.4	677.1	545.7	524.8	533.2	522.3	452.0	406.8	392.5	390.9
45°	3178.9	1605.4	612.7	508.1	503.0	500.5	482.1	409.3	390.0	380.0	379.2
47.5°	3330.4	1599.5	544.0	472.1	479.6	471.2	415.1	389.2	373.3	359.9	356.6
50°	3302.8	1497.4	472.9	431.9	449.5	441.9	373.3	365.8	351.5	337.3	332.3
52.5°	3232.5	1358.4	411.0	389.2	416.8	399.2	344.8	337.3	324.8	306.3	300.5
55°	3270.1	1227.9	362.4	354.9	383.3	330.6	313.0	301.3	287.9	267.8	265.3
57.5°	3148.8	1001.9	291.3	296.3	339.0	282.1	274.5	256.1	233.5	220.1	218.5
60°	2179.5	538.2	182.5	188.3	245.2	236.9	246.1	229.3	201.7	189.2	186.6
62.5°	1001.0	215.9	99.6	95.4	128.9	160.7	210.9	209.2	174.9	154.8	153.2
65°	242.7	98.8	71.1	67.0	72.8	96.3	137.3	164.9	141.5	118.0	115.5
67.5°	78.7	80.4	65.3	61.1	64.4	72.0	82.0	91.2	90.4	82.9	81.2
70°	62.8	72.8	60.3	55.2	55.2	57.8	55.2	44.4	38.5	41.8	43.5
72.5°	46.9	55.2	47.7	42.7	41.0	40.2	34.3	25.1	17.6	15.9	15.1
75°	27.6	31.0	29.3	25.1	23.4	20.9	16.7	10.9	5.9	4.2	2.5
77.5°	5.0	5.9	6.7	5.0	4.2	3.3	2.5	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)