

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: P630405

Luminaire Tested: GWS-SA1D-750-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630405  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-750-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

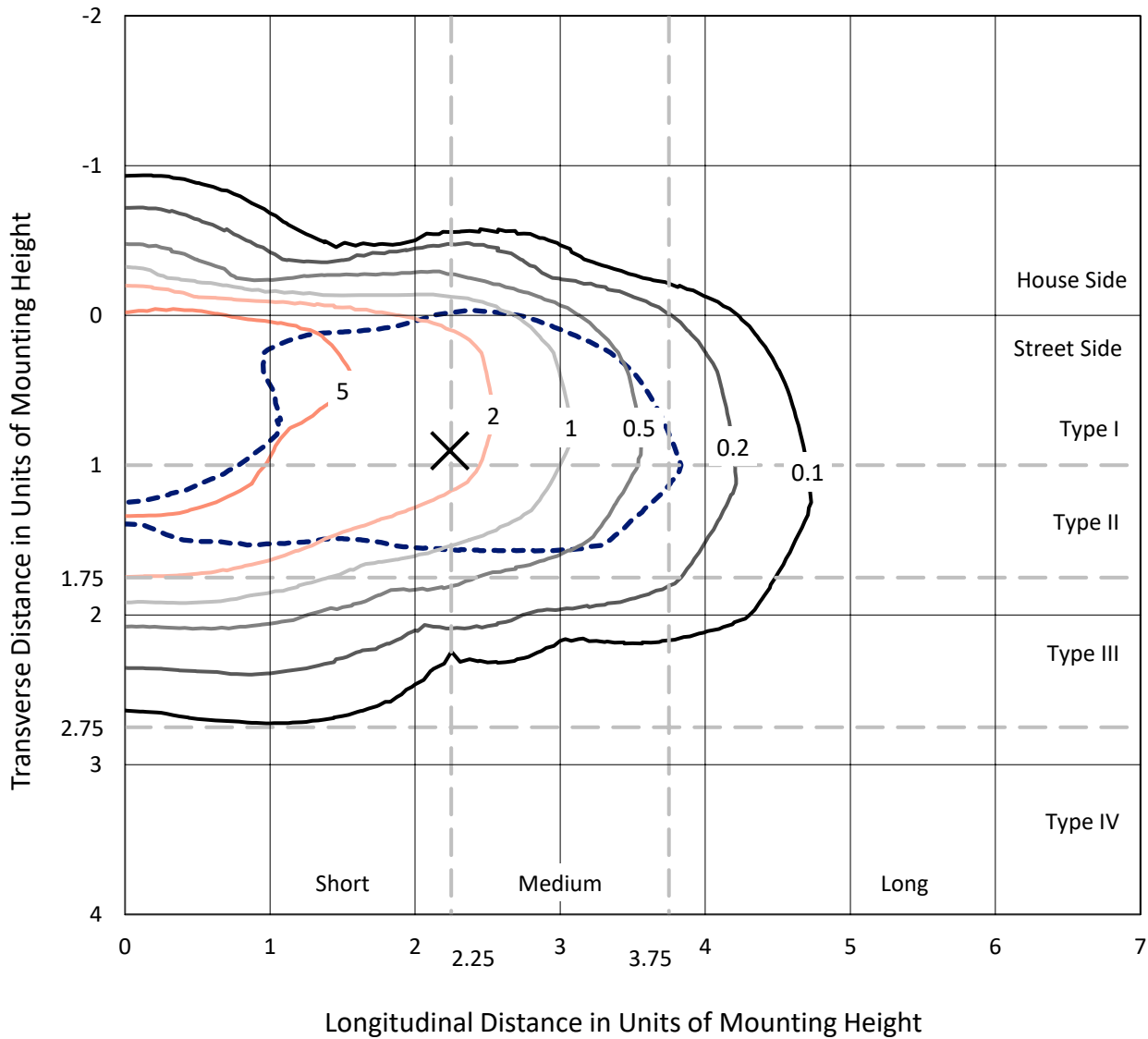
Lumens per Lamp: N/A  
Luminaire Lumens: 4646.2 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

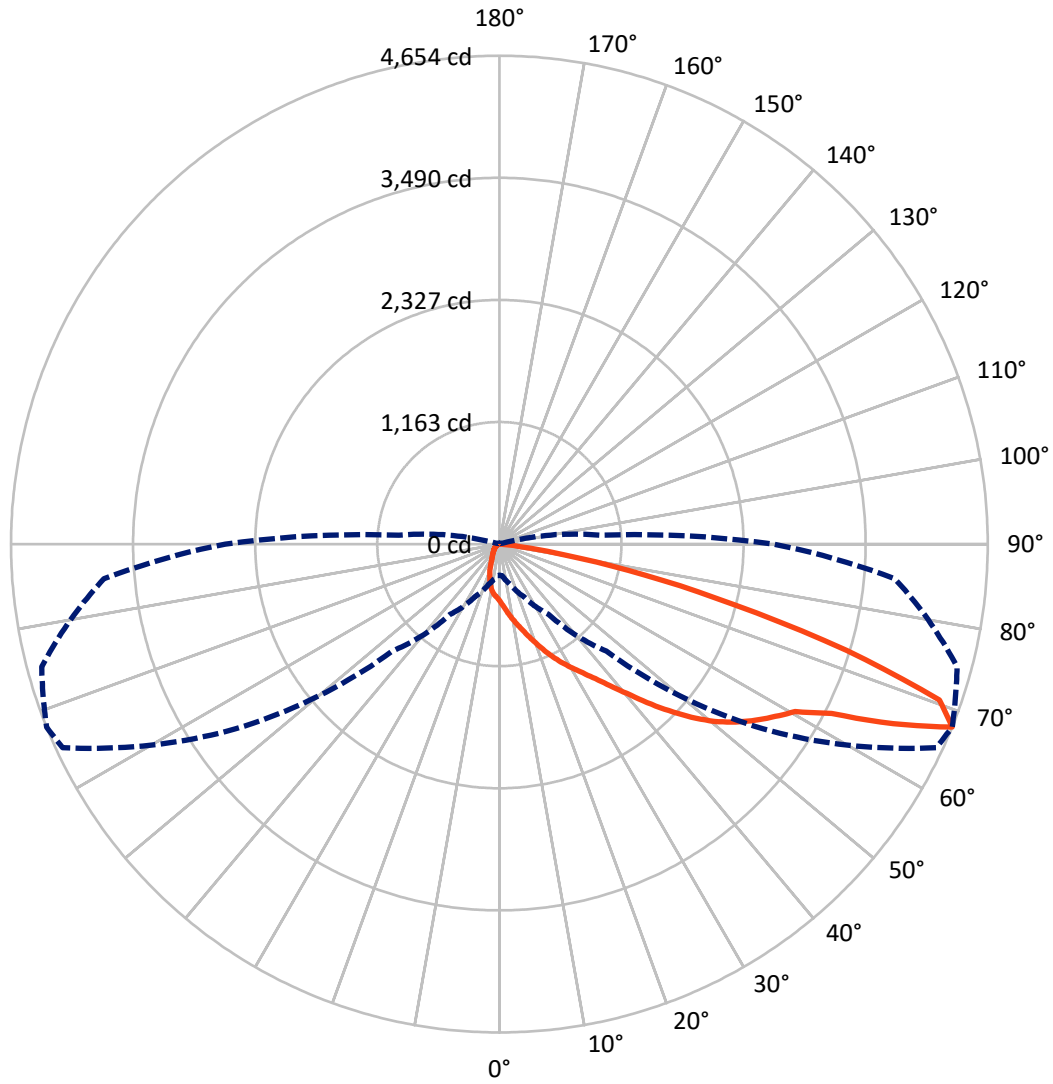
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	335.5	0.0	335.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	4310.7	0.0	4310.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	4646.2	0.0	4646.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.7	1.1
10°-20°	151.4	3.3
20°-30°	260.2	5.6
30°-40°	452.5	9.7
40°-50°	789.5	17.0
50°-60°	1190.8	25.6
60°-70°	1194.1	25.7
70°-80°	526.8	11.3
80°-90°	28.1	0.6
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°	4646.2	100.0
0°-180°	4646.2	100.0

**Coefficient of Utilization**

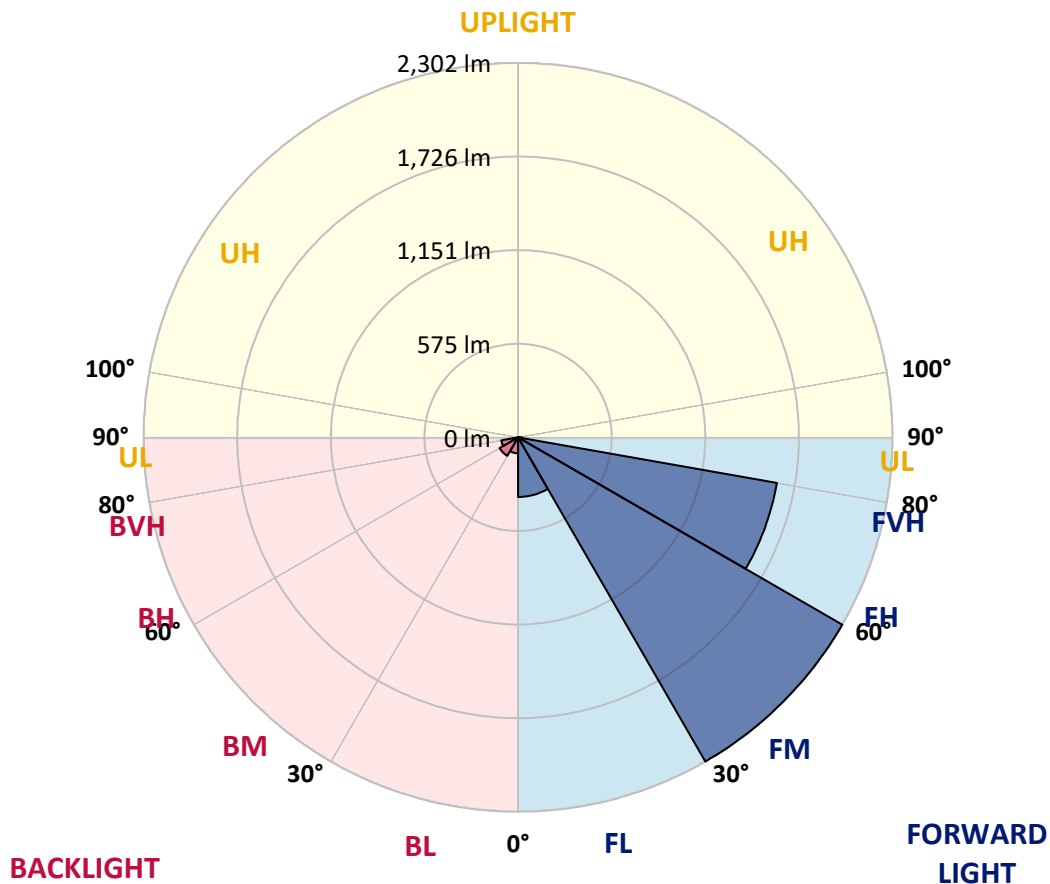


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	366.3	7.9			
FM (30°-60°)	2301.7	49.5			
FH (60°-80°)	1616.2	34.8			G1/1800
FVH (80°-90°)	26.6	0.6			G1/100
BL (0°-30°)	98.2	2.1	B0/110		
BM (30°-60°)	131.1	2.8	B0/220		
BH (60°-80°)	104.7	2.3	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7
2.5°	629.6	633.6	629.6	630.5	619.0	613.6	602.1	586.1	582.1	571.8	556.3
5°	706.6	710.1	706.1	705.2	691.9	682.1	663.0	635.4	627.4	607.4	576.7
7.5°	748.4	750.6	751.9	754.1	749.2	741.2	723.9	689.7	681.2	648.8	605.6
10°	752.8	754.6	761.2	774.6	784.4	789.3	779.5	747.9	734.6	703.0	641.2
12.5°	740.3	743.0	753.7	775.9	803.0	827.9	834.2	806.6	794.6	754.1	683.0
15°	723.9	726.1	740.8	771.0	811.9	857.7	883.5	871.5	858.2	815.9	729.2
17.5°	698.6	701.7	722.1	763.0	815.9	881.3	936.9	940.9	931.6	885.8	780.4
20°	684.3	686.5	704.8	747.0	813.3	898.6	986.7	1024.5	1014.3	966.2	839.1
22.5°	696.3	698.1	710.1	743.0	804.4	908.4	1032.9	1108.1	1102.3	1052.5	900.9
25°	759.5	765.2	758.1	763.9	808.4	913.8	1070.3	1191.7	1193.0	1142.8	964.9
27.5°	887.5	880.0	863.1	834.2	839.5	928.0	1102.3	1270.4	1281.9	1230.8	1021.8
30°	1017.8	1013.4	1003.1	958.2	920.9	959.6	1129.4	1350.9	1369.1	1317.5	1072.5
32.5°	1164.1	1168.6	1150.3	1096.5	1032.9	1023.6	1157.4	1427.3	1461.6	1415.8	1132.1
35°	1338.9	1340.2	1304.2	1244.6	1172.6	1129.4	1207.7	1511.8	1575.0	1541.2	1211.7
37.5°	1509.2	1517.2	1497.6	1403.8	1339.7	1261.0	1290.8	1620.3	1709.3	1695.9	1311.7
40°	1659.9	1672.3	1666.1	1575.4	1491.4	1425.1	1419.8	1747.5	1871.5	1886.7	1443.8
42.5°	1780.0	1788.0	1792.8	1728.4	1654.1	1616.8	1579.0	1895.1	2063.2	2125.0	1605.6
45°	1906.7	1909.3	1919.6	1876.0	1811.1	1814.2	1767.1	2074.3	2265.1	2389.1	1791.5
47.5°	2068.1	2077.0	2072.1	2026.3	1967.6	2002.7	1961.4	2258.8	2464.3	2671.0	1981.8
50°	2264.6	2274.0	2269.5	2216.2	2150.8	2165.5	2139.7	2438.0	2656.4	2936.9	2140.1
52.5°	2366.0	2373.6	2428.7	2452.7	2418.5	2325.1	2291.7	2635.0	2818.7	3155.7	2285.5
55°	2317.1	2322.4	2442.5	2543.9	2669.3	2575.9	2444.7	2787.1	2961.8	3326.5	2393.6
57.5°	2114.3	2143.2	2306.4	2478.1	2741.7	2823.6	2692.8	2952.5	3099.7	3445.2	2499.8
60°	1698.6	1697.2	1931.1	2239.3	2600.3	2891.6	3043.2	3176.2	3238.0	3536.3	2642.1
62.5°	938.7	947.1	1258.4	1664.3	2207.3	2715.5	3306.0	3562.6	3553.2	3695.5	2864.9
65°	467.3	484.2	653.2	953.3	1468.7	2244.2	3351.4	4152.2	4125.5	4070.4	3325.1
67.5°	296.6	303.3	396.6	554.0	816.4	1442.5	3069.0	4591.9	4653.8	4515.0	3781.8
70°	192.1	203.2	275.7	378.8	492.7	743.5	2248.2	4306.9	4448.8	4466.1	3497.2
72.5°	104.5	112.5	176.1	270.3	355.7	371.7	1262.8	3232.2	3460.3	3788.5	2736.0
75°	59.6	65.4	96.5	183.6	261.0	226.3	559.8	2163.7	2309.1	2707.5	1960.5
77.5°	36.0	40.9	54.2	89.4	163.6	151.2	211.7	1317.1	1409.6	1615.4	1028.9
80°	16.5	19.6	34.2	49.4	89.4	71.6	80.9	614.1	634.1	663.0	340.6
82.5°	7.6	8.9	15.6	29.3	50.7	41.4	31.1	141.8	199.6	189.0	86.7
85°	0.9	0.9	5.8	12.0	14.2	10.7	12.9	32.0	40.5	56.9	24.9
87.5°	0.0	0.0	0.4	0.4	0.9	1.3	2.7	4.0	5.8	9.3	6.2
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°	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7	540.7
2.5°	549.1	536.7	525.6	509.1	498.0	485.6	477.1	466.9	462.9	459.8	455.3
5°	561.6	541.6	514.5	484.2	459.3	435.8	414.0	399.7	387.3	385.5	379.3
7.5°	582.1	552.3	506.5	457.1	414.9	375.7	345.1	320.2	307.7	303.7	296.6
10°	609.2	568.3	494.5	418.9	357.9	311.3	276.6	248.6	229.0	221.9	216.5
12.5°	639.4	582.9	475.3	371.7	302.4	249.0	205.0	175.2	162.7	158.3	154.3
15°	674.1	596.7	445.1	324.6	248.1	183.2	152.1	139.2	133.8	132.5	131.2
17.5°	707.4	605.6	409.1	275.7	190.8	142.3	127.6	122.7	121.4	120.1	119.2
20°	745.2	611.8	366.8	229.4	148.1	120.5	113.4	109.8	107.2	104.5	104.0
22.5°	783.9	611.8	321.0	184.1	124.1	108.1	100.0	93.4	88.5	85.8	84.9
25°	820.8	603.4	275.7	147.2	109.4	96.0	85.8	78.3	71.6	68.5	67.6
27.5°	847.1	581.6	236.1	124.5	99.2	85.4	72.9	64.5	59.1	56.0	55.6
30°	863.5	549.1	199.6	111.2	90.3	74.3	61.8	54.7	50.7	48.5	47.6
32.5°	876.0	509.1	167.2	101.8	81.8	64.5	53.8	48.0	44.5	42.7	42.2
35°	900.9	471.3	143.2	93.4	72.9	56.5	47.1	42.7	40.0	37.8	37.4
37.5°	935.6	439.8	124.1	85.8	64.5	50.2	42.7	38.7	36.5	34.2	33.8
40°	986.7	419.8	109.8	78.3	56.9	45.4	39.1	35.6	32.5	30.2	29.8
42.5°	1065.4	410.4	100.5	70.7	50.2	40.9	36.0	31.6	28.5	26.2	25.8
45°	1159.2	415.3	92.5	63.1	45.8	37.8	32.0	27.6	24.5	22.2	21.8
47.5°	1259.7	432.6	85.8	56.0	41.4	34.7	28.5	23.6	20.9	18.7	18.2
50°	1364.6	461.1	80.0	49.4	37.8	31.1	24.5	20.5	17.8	16.0	15.6
52.5°	1455.8	499.8	74.3	44.5	34.7	27.6	21.3	17.8	15.1	13.3	12.9
55°	1543.0	536.3	69.8	40.0	31.1	24.0	18.7	15.1	12.9	11.1	10.7
57.5°	1637.7	574.9	64.5	36.0	28.0	21.3	16.5	12.9	11.1	9.3	8.9
60°	1775.5	632.3	56.5	32.9	24.5	18.7	14.2	11.6	9.8	7.6	7.1
62.5°	1974.3	736.8	47.6	28.5	20.9	16.0	12.0	9.8	8.0	6.2	5.3
65°	2346.0	914.7	39.1	23.6	16.9	13.3	10.2	8.0	6.2	4.4	4.0
67.5°	2613.7	960.9	31.6	19.1	13.8	10.2	8.4	6.2	4.4	3.1	2.7
70°	2285.1	690.1	24.5	15.6	11.6	8.0	6.7	4.9	3.1	2.2	1.8
72.5°	1721.7	450.9	18.2	12.0	8.9	6.7	4.9	4.0	2.7	1.8	1.3
75°	1213.5	260.6	13.3	8.9	6.2	4.9	4.0	3.1	2.2	1.3	1.3
77.5°	622.1	107.6	9.3	6.2	4.4	3.1	2.7	1.8	1.8	1.3	0.9
80°	189.0	35.6	5.3	4.0	3.1	2.2	1.3	1.3	1.3	0.9	0.4
82.5°	43.1	11.6	3.1	3.1	2.2	1.8	1.3	0.4	0.4	0.0	0.0
85°	11.1	3.6	2.7	2.2	2.2	1.8	0.9	0.4	0.0	0.0	0.0
87.5°	4.0	2.2	2.2	2.2	1.8	1.3	0.9	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)