

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: P631069

Luminaire Tested: GWS-SA1E-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

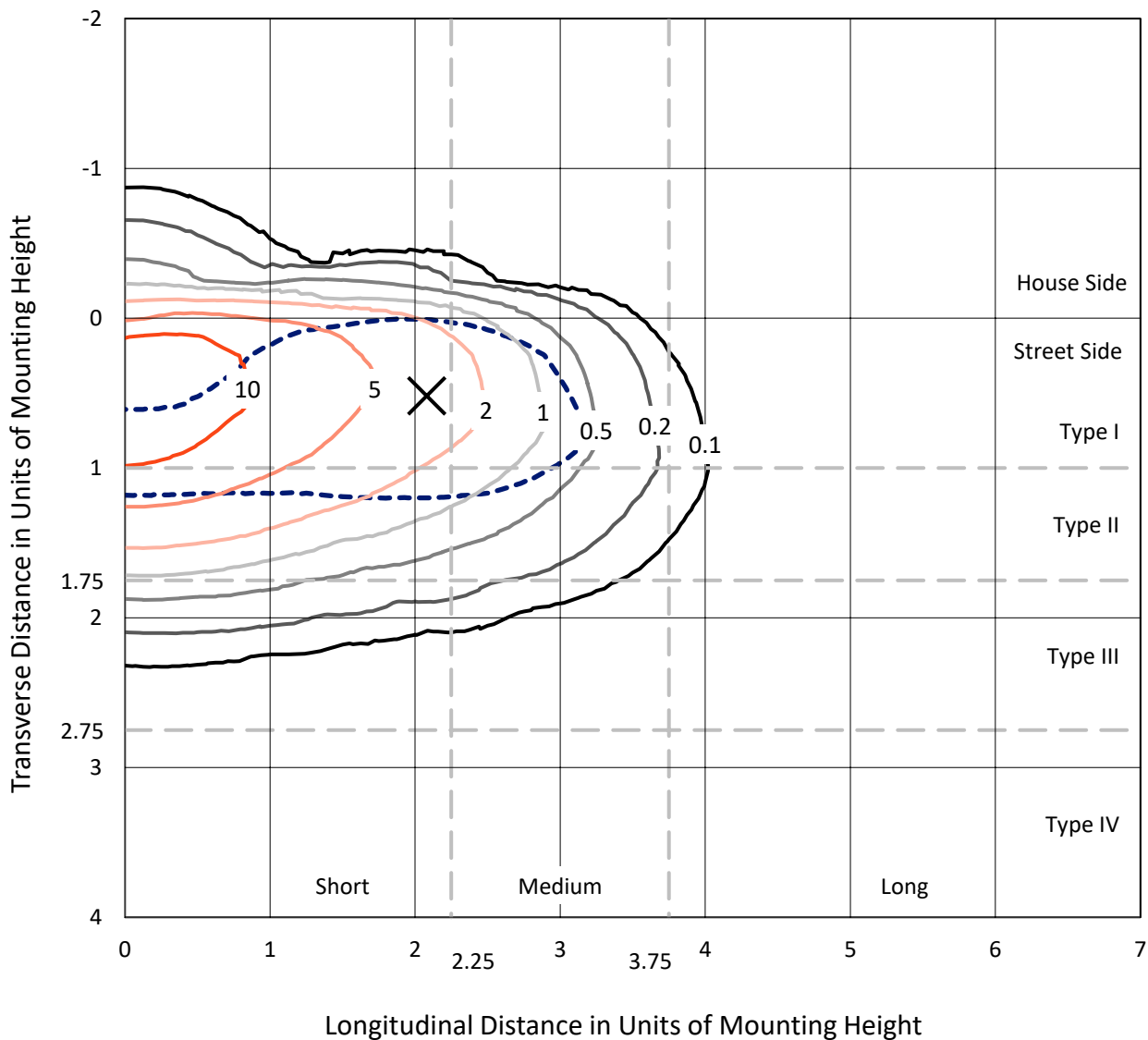
Lumens per Lamp: N/A  
Luminaire Lumens: 4854.6 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

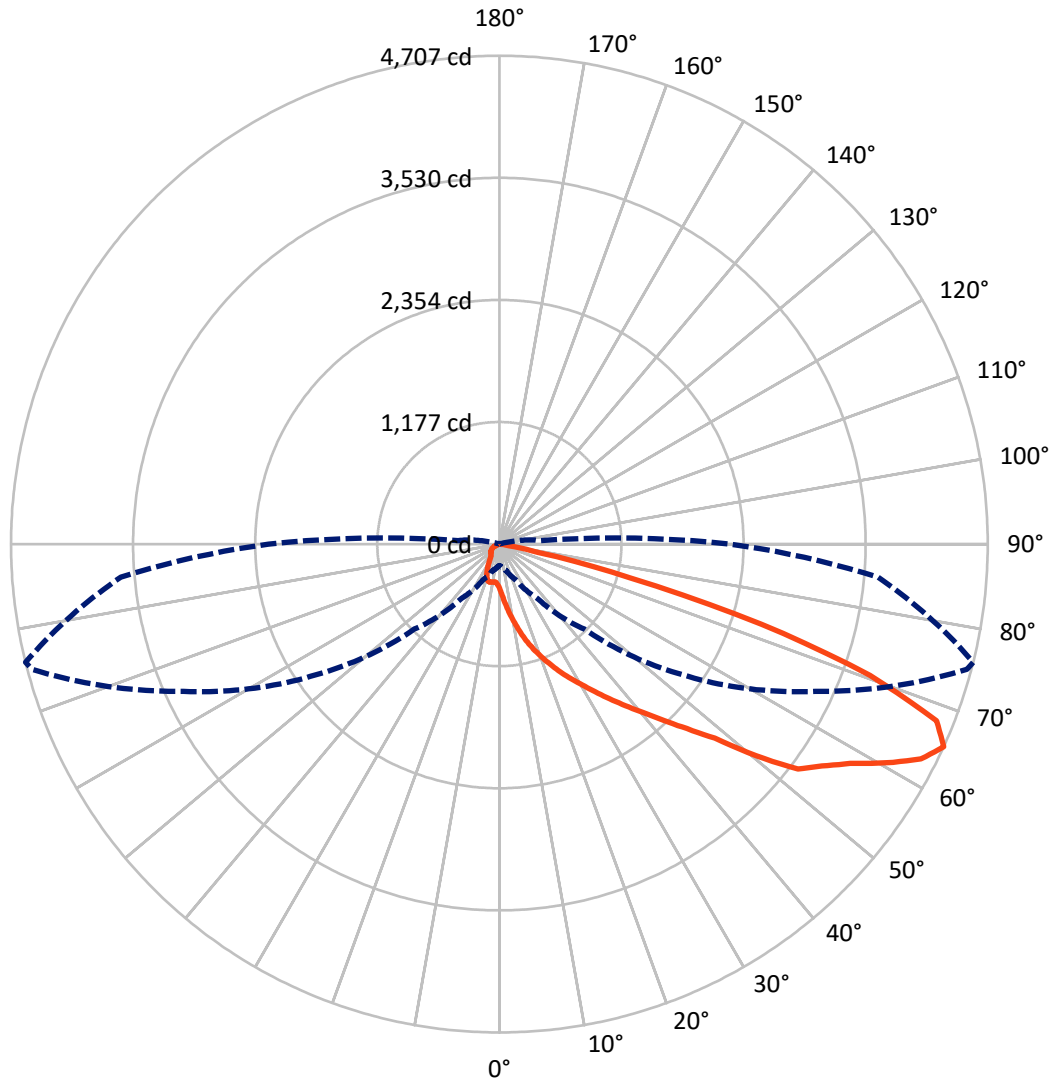
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	268.4	0.0	268.4
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	4586.2	0.0	4586.2
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	4854.6	0.0	4854.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	1.1
10°-20°	198.4	4.1
20°-30°	404.8	8.3
30°-40°	719.9	14.8
40°-50°	1064.2	21.9
50°-60°	1218.4	25.1
60°-70°	929.6	19.1
70°-80°	260.4	5.4
80°-90°	6.6	0.1
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°	4854.6	100.0
0°-180°	4854.6	100.0

**Coefficient of Utilization**

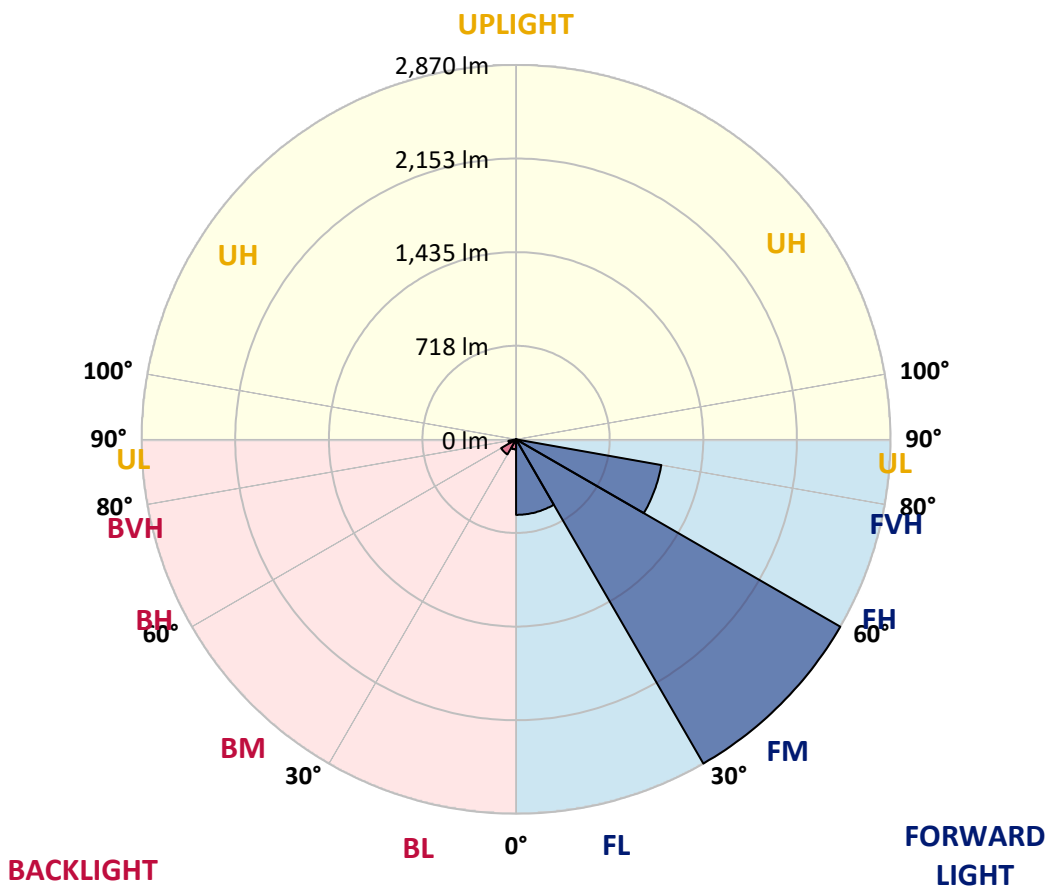


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.9	11.9			
FM (30°-60°)	2870.1	59.1			
FH (60°-80°)	1131.0	23.3			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	76.6	1.6	B0/110		
BM (30°-60°)	132.4	2.7	B0/220		
BH (60°-80°)	59.0	1.2	B0/110		G0/110
BVH (80°-90°)	0.4	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°	75°	76°	85°
0°	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8
2.5°	662.4	672.3	664.6	651.6	626.6	602.4	571.4	528.6	494.5	490.2	458.3
5°	894.6	893.7	876.9	860.0	833.7	792.3	729.7	650.3	573.9	567.5	495.8
7.5°	1032.7	1034.0	1024.5	1011.5	985.6	942.9	877.7	781.9	670.2	657.2	547.2
10°	1148.7	1148.3	1141.4	1135.4	1112.1	1083.6	1013.7	908.4	773.7	753.5	604.6
12.5°	1235.9	1238.9	1242.4	1248.4	1238.5	1210.5	1144.4	1029.6	878.6	856.2	670.2
15°	1305.0	1305.8	1318.8	1342.1	1350.3	1335.6	1275.6	1147.0	982.2	962.8	745.7
17.5°	1325.7	1327.4	1349.4	1392.1	1435.3	1443.5	1398.2	1265.3	1084.0	1063.3	819.1
20°	1369.3	1373.1	1389.5	1427.1	1481.5	1525.5	1507.8	1384.8	1185.9	1158.7	894.1
22.5°	1506.5	1508.6	1503.0	1507.8	1535.8	1586.8	1597.5	1500.4	1290.3	1261.4	975.3
25°	1742.5	1743.4	1704.1	1667.0	1645.9	1655.4	1679.1	1607.0	1393.9	1365.4	1050.8
27.5°	1987.7	1990.7	1943.6	1880.6	1805.1	1762.0	1755.1	1704.6	1498.3	1466.8	1125.4
30°	2218.5	2218.5	2168.9	2092.1	1991.1	1907.0	1857.3	1803.0	1610.1	1575.5	1201.8
32.5°	2426.1	2424.4	2360.9	2277.6	2178.0	2085.6	1981.2	1905.7	1734.3	1695.9	1289.9
35°	2597.4	2593.1	2521.0	2441.2	2334.6	2266.0	2149.5	2016.1	1869.0	1830.6	1380.5
37.5°	2726.9	2722.1	2656.1	2571.5	2472.7	2428.2	2330.7	2148.6	2011.0	1976.0	1481.0
40°	2797.2	2787.7	2742.0	2679.0	2596.1	2557.3	2516.7	2313.0	2178.0	2134.4	1599.7
42.5°	2817.9	2806.7	2776.5	2747.2	2697.1	2666.5	2710.0	2498.6	2361.4	2323.8	1735.2
45°	2756.6	2750.2	2747.6	2768.7	2777.8	2786.4	2893.9	2704.0	2563.8	2535.3	1905.7
47.5°	2609.1	2607.3	2630.2	2718.2	2814.0	2905.1	3093.7	2957.3	2826.1	2795.5	2143.9
50°	2336.3	2354.0	2417.9	2572.4	2764.0	2972.4	3280.5	3308.6	3250.8	3205.9	2454.6
52.5°	1910.0	1944.1	2087.3	2322.1	2597.4	2953.4	3366.8	3589.9	3649.1	3602.5	2677.2
55°	1498.7	1530.7	1658.4	1956.1	2323.4	2808.9	3370.7	3687.0	3816.1	3772.9	2827.9
57.5°	1116.4	1145.7	1261.8	1546.6	1950.5	2524.5	3278.4	3741.0	4014.1	3986.5	3065.6
60°	729.7	758.6	863.5	1112.5	1513.0	2110.2	3051.0	3729.8	4283.9	4281.3	3357.8
62.5°	404.8	427.7	503.6	697.8	1056.0	1634.2	2693.6	3617.1	4544.9	4561.3	3598.6
65°	207.1	221.8	268.0	383.6	639.1	1158.7	2223.7	3359.1	4665.8	4707.2	3662.0
67.5°	135.5	140.2	151.5	199.4	342.2	728.9	1673.5	2945.2	4495.7	4544.1	3449.3
70°	110.0	113.9	120.4	132.9	176.5	387.1	1099.1	2352.3	3756.5	3789.3	2746.7
72.5°	80.7	85.9	98.4	106.6	127.3	212.3	571.8	1544.0	2579.7	2637.5	1726.1
75°	59.6	62.6	72.9	84.1	104.0	134.2	218.8	811.7	1332.1	1298.5	725.0
77.5°	35.8	38.0	46.6	53.9	74.2	83.7	76.4	299.9	405.2	381.0	175.2
80°	17.7	19.9	30.6	40.6	47.5	33.7	31.9	83.7	90.2	90.2	44.0
82.5°	6.0	7.8	16.4	26.8	23.3	12.9	15.1	21.6	24.2	25.5	12.9
85°	0.0	0.0	3.9	7.8	3.5	1.7	3.9	4.7	6.0	6.5	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.7	1.7
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°	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8	429.8
2.5°	441.0	420.7	390.1	362.5	341.3	321.5	306.4	294.3	292.1	285.2	286.1
5°	460.9	424.2	367.7	324.1	293.4	272.7	255.5	242.5	236.9	231.3	227.0
7.5°	491.5	438.4	359.0	306.0	270.1	238.2	211.5	189.9	179.5	173.0	168.7
10°	529.1	458.3	359.5	295.2	242.1	193.3	156.6	132.9	121.7	118.2	117.8
12.5°	573.9	483.3	362.9	277.5	201.5	143.7	116.1	105.3	101.8	98.8	98.8
15°	621.4	511.4	362.9	245.1	153.6	112.2	100.5	93.6	89.3	87.6	86.7
17.5°	671.5	537.7	354.3	200.7	117.8	98.8	89.3	82.9	79.4	76.8	76.0
20°	725.0	562.7	332.7	153.6	101.0	88.5	79.4	72.9	69.5	66.9	66.9
22.5°	779.4	586.0	297.8	118.2	89.3	78.5	69.9	63.9	60.4	57.8	57.8
25°	829.8	601.6	252.9	97.5	80.7	69.9	62.1	56.1	52.2	50.5	49.6
27.5°	876.9	611.5	203.3	85.9	72.5	62.6	54.4	48.8	45.7	44.4	43.6
30°	925.6	614.1	155.4	78.1	65.6	55.2	47.5	43.2	40.6	38.8	38.8
32.5°	973.1	611.1	118.7	71.6	59.6	48.8	42.3	38.4	36.2	35.0	34.5
35°	1021.4	597.2	96.2	66.0	53.5	42.7	37.5	34.5	33.2	31.5	31.5
37.5°	1074.1	578.7	83.7	60.4	47.5	38.4	33.7	31.5	29.8	28.5	28.0
40°	1139.7	557.1	76.8	55.7	41.9	34.5	30.2	28.0	26.8	25.5	25.0
42.5°	1217.4	536.0	73.4	50.5	37.5	30.6	27.2	24.6	23.3	21.6	21.1
45°	1327.4	531.2	69.5	44.9	33.7	27.6	23.7	21.1	19.4	18.1	17.7
47.5°	1504.3	544.6	63.0	38.8	29.8	24.2	20.3	18.1	16.0	14.7	13.8
50°	1680.0	541.1	56.5	33.7	26.3	20.7	17.3	15.1	12.9	11.7	11.2
52.5°	1775.8	524.7	50.5	29.8	22.9	17.7	14.7	12.1	10.8	9.5	9.1
55°	1862.5	518.3	44.4	25.9	19.4	15.5	12.1	9.9	9.1	7.8	7.3
57.5°	2032.5	533.4	39.3	22.4	16.8	13.4	10.4	8.2	7.3	6.0	5.6
60°	2210.3	535.1	33.7	19.4	14.7	11.2	8.2	6.5	5.6	4.3	3.9
62.5°	2303.1	491.5	27.6	16.4	12.1	9.5	6.9	5.2	4.3	2.6	2.6
65°	2225.4	397.4	23.3	13.4	9.5	7.3	5.2	3.9	2.6	1.3	0.4
67.5°	1969.5	282.7	19.4	10.8	6.9	5.2	3.9	2.6	0.4	0.0	0.0
70°	1442.2	161.4	15.1	7.8	5.2	3.5	2.6	1.3	0.0	0.0	0.0
72.5°	886.4	86.3	11.2	5.2	3.9	2.6	2.2	0.9	0.0	0.0	0.0
75°	336.2	41.4	6.9	3.5	3.0	2.2	1.3	0.4	0.0	0.0	0.0
77.5°	91.1	20.3	3.9	2.6	2.2	1.3	0.9	0.0	0.0	0.0	0.0
80°	23.7	9.5	2.6	1.7	1.3	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	4.3	1.3	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0
85°	3.5	1.7	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.4	0.4	0.4	0.4	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)