

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: P631124

Luminaire Tested: GWS-SA1F-722-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631124  
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-SA1F-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

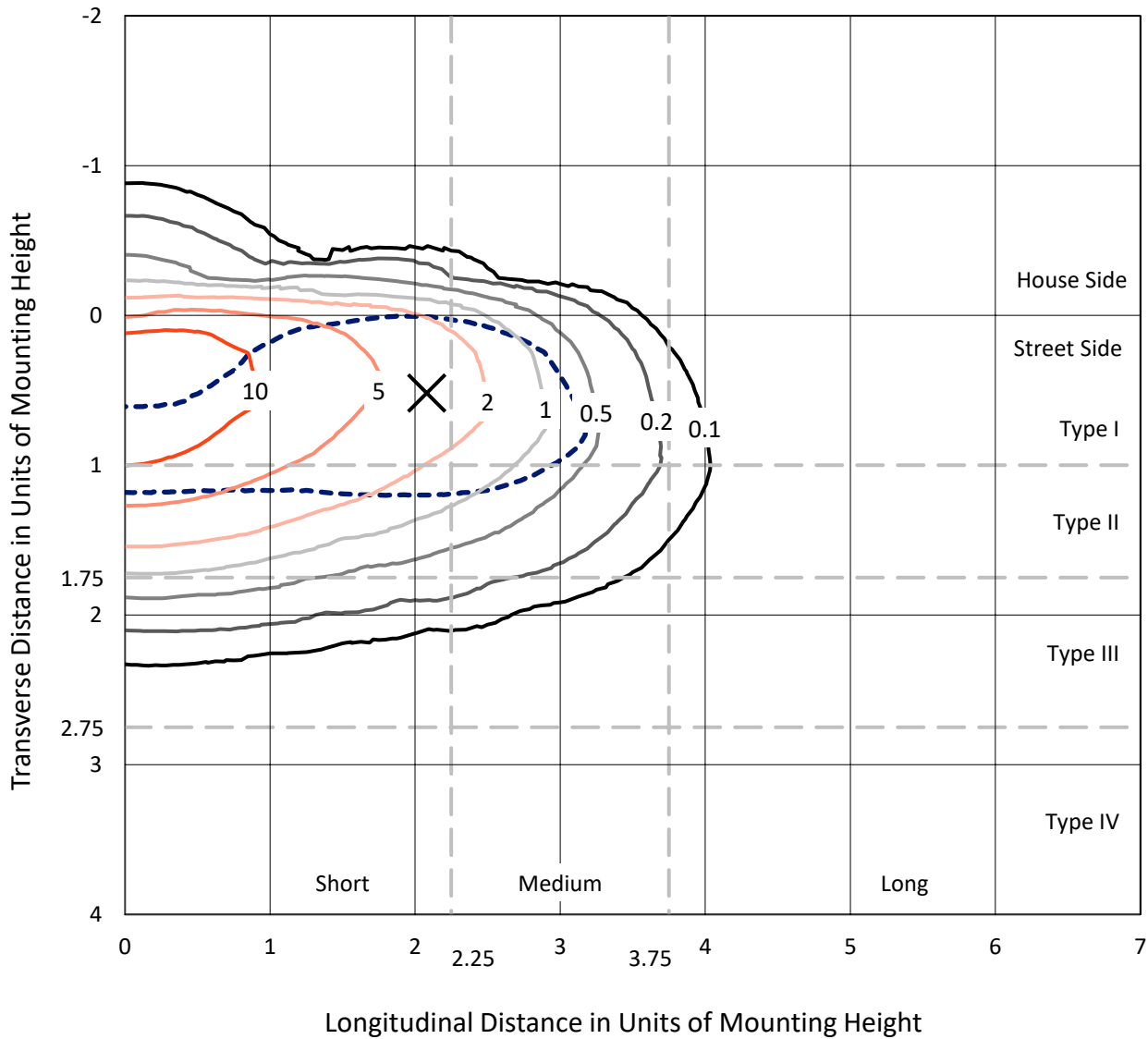
Lumens per Lamp: N/A  
Luminaire Lumens: 5004.8 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

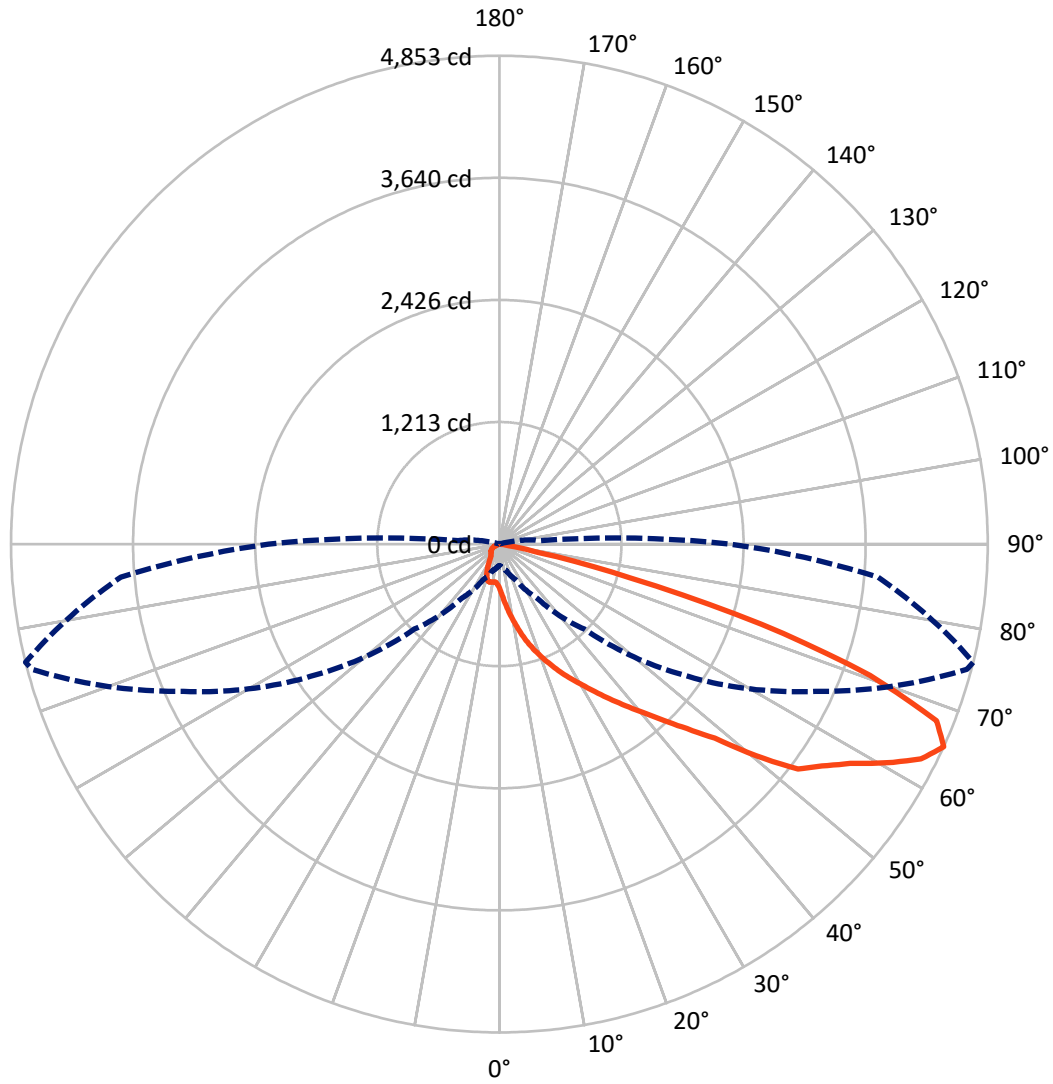
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 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	276.7	0.0	276.7
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	4728.1	0.0	4728.1
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	5004.8	0.0	5004.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	1.1
10°-20°	204.5	4.1
20°-30°	417.3	8.3
30°-40°	742.2	14.8
40°-50°	1097.1	21.9
50°-60°	1256.1	25.1
60°-70°	958.4	19.1
70°-80°	268.5	5.4
80°-90°	6.7	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°	5004.8	100.0
0°-180°	5004.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631124

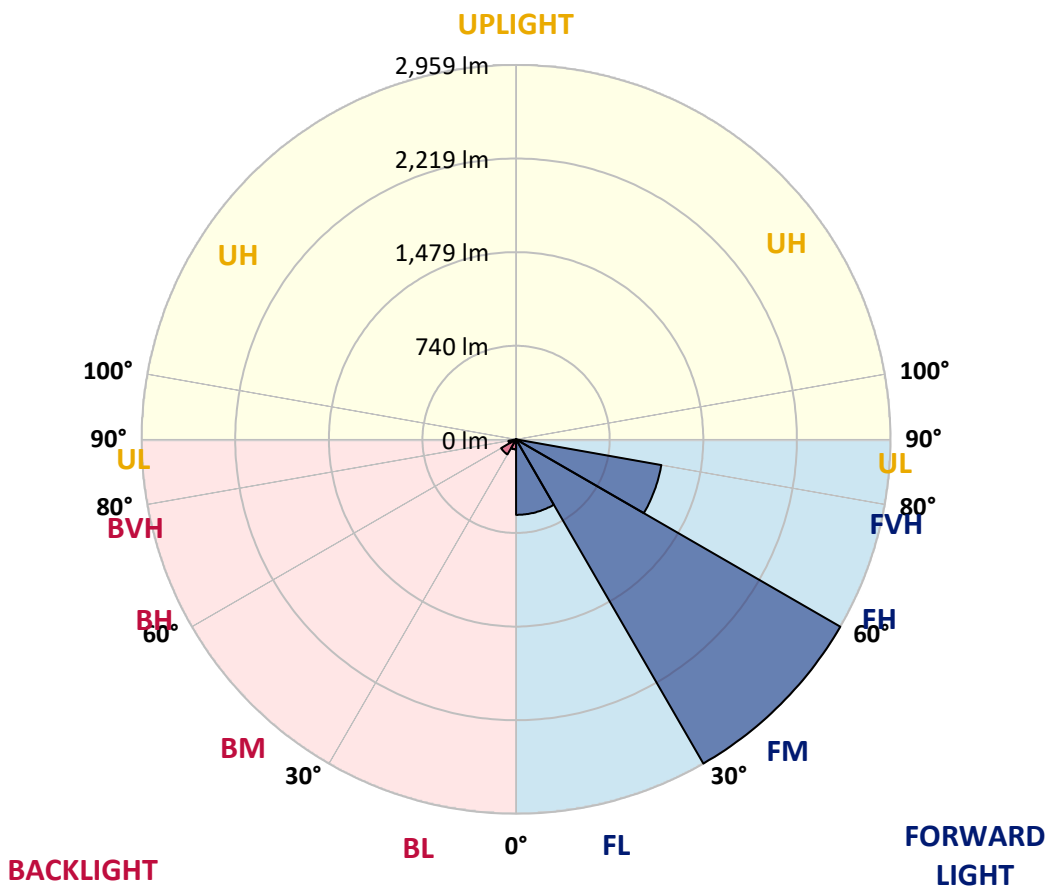
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.8	11.9			
FM (30°-60°)	2958.9	59.1			
FH (60°-80°)	1166.0	23.3			G1/1800
FVH (80°-90°)	6.4	0.1			G0/10
BL (0°-30°)	79.0	1.6	B0/110		
BM (30°-60°)	136.5	2.7	B0/220		
BH (60°-80°)	60.8	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





REPORT NUMBER: P631124

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1
2.5°	682.9	693.1	685.1	671.8	646.0	621.1	589.0	545.0	509.8	505.4	472.5
5°	922.3	921.4	904.0	886.7	859.5	816.8	752.3	670.4	591.7	585.0	511.2
7.5°	1064.6	1065.9	1056.2	1042.8	1016.1	972.1	904.9	806.1	690.9	677.6	564.1
10°	1184.3	1183.8	1176.7	1170.5	1146.5	1117.1	1045.0	936.5	797.7	776.8	623.3
12.5°	1274.2	1277.3	1280.8	1287.1	1276.8	1247.9	1179.8	1061.5	905.8	882.7	690.9
15°	1345.3	1346.2	1359.6	1383.6	1392.1	1376.9	1315.1	1182.5	1012.6	992.5	768.8
17.5°	1366.7	1368.5	1391.2	1435.2	1479.7	1488.1	1441.4	1304.4	1117.6	1096.2	844.4
20°	1411.6	1415.6	1432.5	1471.2	1527.3	1572.7	1554.4	1427.6	1222.5	1194.5	921.8
22.5°	1553.1	1555.3	1549.5	1554.4	1583.4	1635.8	1647.0	1546.9	1330.2	1300.4	1005.4
25°	1796.5	1797.3	1756.9	1718.6	1696.8	1706.6	1731.1	1656.8	1437.0	1407.6	1083.3
27.5°	2049.1	2052.3	2003.8	1938.8	1861.0	1816.5	1809.4	1757.3	1544.6	1512.2	1160.3
30°	2287.2	2287.2	2236.0	2156.8	2052.7	1966.0	1914.8	1858.7	1659.9	1624.3	1239.0
32.5°	2501.2	2499.4	2434.0	2348.1	2245.3	2150.1	2042.5	1964.6	1788.0	1748.4	1329.8
35°	2677.8	2673.3	2599.0	2516.7	2406.8	2336.1	2216.0	2078.5	1926.8	1887.2	1423.2
37.5°	2811.2	2806.3	2738.3	2651.1	2549.2	2503.4	2402.8	2215.1	2073.2	2037.1	1526.9
40°	2883.8	2874.0	2826.8	2761.9	2676.4	2636.4	2594.6	2384.6	2245.3	2200.4	1649.2
42.5°	2905.1	2893.5	2862.4	2832.1	2780.5	2749.0	2793.9	2575.9	2434.4	2395.7	1788.9
45°	2841.9	2835.3	2832.6	2854.4	2863.7	2872.6	2983.4	2787.7	2643.1	2613.7	1964.6
47.5°	2689.8	2688.0	2711.6	2802.3	2901.1	2995.0	3189.4	3048.8	2913.6	2882.0	2210.2
50°	2408.6	2426.9	2492.7	2652.0	2849.5	3064.4	3382.0	3410.9	3351.3	3305.1	2530.5
52.5°	1969.1	2004.2	2151.9	2393.9	2677.8	3044.8	3471.0	3701.0	3762.0	3713.9	2760.1
55°	1545.1	1578.0	1709.7	2016.7	2395.3	2895.8	3475.0	3801.1	3934.1	3889.6	2915.3
57.5°	1150.9	1181.2	1300.8	1594.5	2010.9	2602.6	3379.8	3856.7	4138.3	4109.9	3160.5
60°	752.3	782.1	890.2	1146.9	1559.8	2175.5	3145.4	3845.2	4416.4	4413.7	3461.7
62.5°	417.3	440.9	519.2	719.4	1088.6	1684.8	2777.0	3729.0	4685.5	4702.5	3709.9
65°	213.5	228.7	276.3	395.5	658.9	1194.5	2292.5	3463.0	4810.1	4852.8	3775.3
67.5°	139.7	144.6	156.2	205.5	352.8	751.4	1725.3	3036.4	4634.8	4684.7	3556.0
70°	113.4	117.5	124.1	137.0	182.0	399.1	1133.1	2425.1	3872.7	3906.6	2831.7
72.5°	83.2	88.5	101.4	109.9	131.2	218.9	589.5	1591.8	2659.5	2719.1	1779.5
75°	61.4	64.5	75.2	86.8	107.2	138.4	225.6	836.8	1373.4	1338.7	747.4
77.5°	36.9	39.2	48.0	55.6	76.5	86.3	78.7	309.2	417.7	392.8	180.6
80°	18.2	20.5	31.6	41.8	48.9	34.7	32.9	86.3	93.0	93.0	45.4
82.5°	6.2	8.0	16.9	27.6	24.0	13.3	15.6	22.2	24.9	26.2	13.3
85°	0.0	0.0	4.0	8.0	3.6	1.8	4.0	4.9	6.2	6.7	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.8	1.8
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°	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1	443.1
2.5°	454.7	433.8	402.2	373.7	351.9	331.4	315.9	303.4	301.2	294.1	295.0
5°	475.1	437.3	379.0	334.1	302.5	281.2	263.4	250.0	244.2	238.5	234.0
7.5°	506.7	452.0	370.1	315.4	278.5	245.6	218.0	195.8	185.1	178.4	174.0
10°	545.4	472.5	370.6	304.3	249.6	199.3	161.5	137.0	125.5	121.9	121.5
12.5°	591.7	498.3	374.1	286.1	207.8	148.1	119.7	108.6	105.0	101.9	101.9
15°	640.6	527.2	374.1	252.7	158.4	115.7	103.7	96.5	92.1	90.3	89.4
17.5°	692.2	554.3	365.3	206.9	121.5	101.9	92.1	85.4	81.9	79.2	78.3
20°	747.4	580.1	343.0	158.4	104.1	91.2	81.9	75.2	71.6	69.0	69.0
22.5°	803.5	604.2	307.0	121.9	92.1	81.0	72.1	65.8	62.3	59.6	59.6
25°	855.5	620.2	260.7	100.5	83.2	72.1	64.1	57.8	53.8	52.1	51.2
27.5°	904.0	630.4	209.5	88.5	74.7	64.5	56.1	50.3	47.2	45.8	44.9
30°	954.3	633.1	160.2	80.5	67.6	56.9	48.9	44.5	41.8	40.0	40.0
32.5°	1003.2	630.0	122.3	73.9	61.4	50.3	43.6	39.6	37.4	36.0	35.6
35°	1053.0	615.7	99.2	68.1	55.2	44.0	38.7	35.6	34.3	32.5	32.5
37.5°	1107.3	596.6	86.3	62.3	48.9	39.6	34.7	32.5	30.7	29.4	28.9
40°	1174.9	574.3	79.2	57.4	43.2	35.6	31.1	28.9	27.6	26.2	25.8
42.5°	1255.0	552.5	75.6	52.1	38.7	31.6	28.0	25.4	24.0	22.2	21.8
45°	1368.5	547.7	71.6	46.3	34.7	28.5	24.5	21.8	20.0	18.7	18.2
47.5°	1550.9	561.4	65.0	40.0	30.7	24.9	20.9	18.7	16.5	15.1	14.2
50°	1731.9	557.9	58.3	34.7	27.1	21.4	17.8	15.6	13.3	12.0	11.6
52.5°	1830.7	541.0	52.1	30.7	23.6	18.2	15.1	12.5	11.1	9.8	9.3
55°	1920.1	534.3	45.8	26.7	20.0	16.0	12.5	10.2	9.3	8.0	7.6
57.5°	2095.4	549.9	40.5	23.1	17.4	13.8	10.7	8.5	7.6	6.2	5.8
60°	2278.7	551.7	34.7	20.0	15.1	11.6	8.5	6.7	5.8	4.4	4.0
62.5°	2374.4	506.7	28.5	16.9	12.5	9.8	7.1	5.3	4.4	2.7	2.7
65°	2294.3	409.7	24.0	13.8	9.8	7.6	5.3	4.0	2.7	1.3	0.4
67.5°	2030.5	291.4	20.0	11.1	7.1	5.3	4.0	2.7	0.4	0.0	0.0
70°	1486.8	166.4	15.6	8.0	5.3	3.6	2.7	1.3	0.0	0.0	0.0
72.5°	913.8	89.0	11.6	5.3	4.0	2.7	2.2	0.9	0.0	0.0	0.0
75°	346.6	42.7	7.1	3.6	3.1	2.2	1.3	0.4	0.0	0.0	0.0
77.5°	93.9	20.9	4.0	2.7	2.2	1.3	0.9	0.0	0.0	0.0	0.0
80°	24.5	9.8	2.7	1.8	1.3	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	8.5	4.4	1.3	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.8	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)