

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: P631291

Luminaire Tested: GWS-SA1F-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-735-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

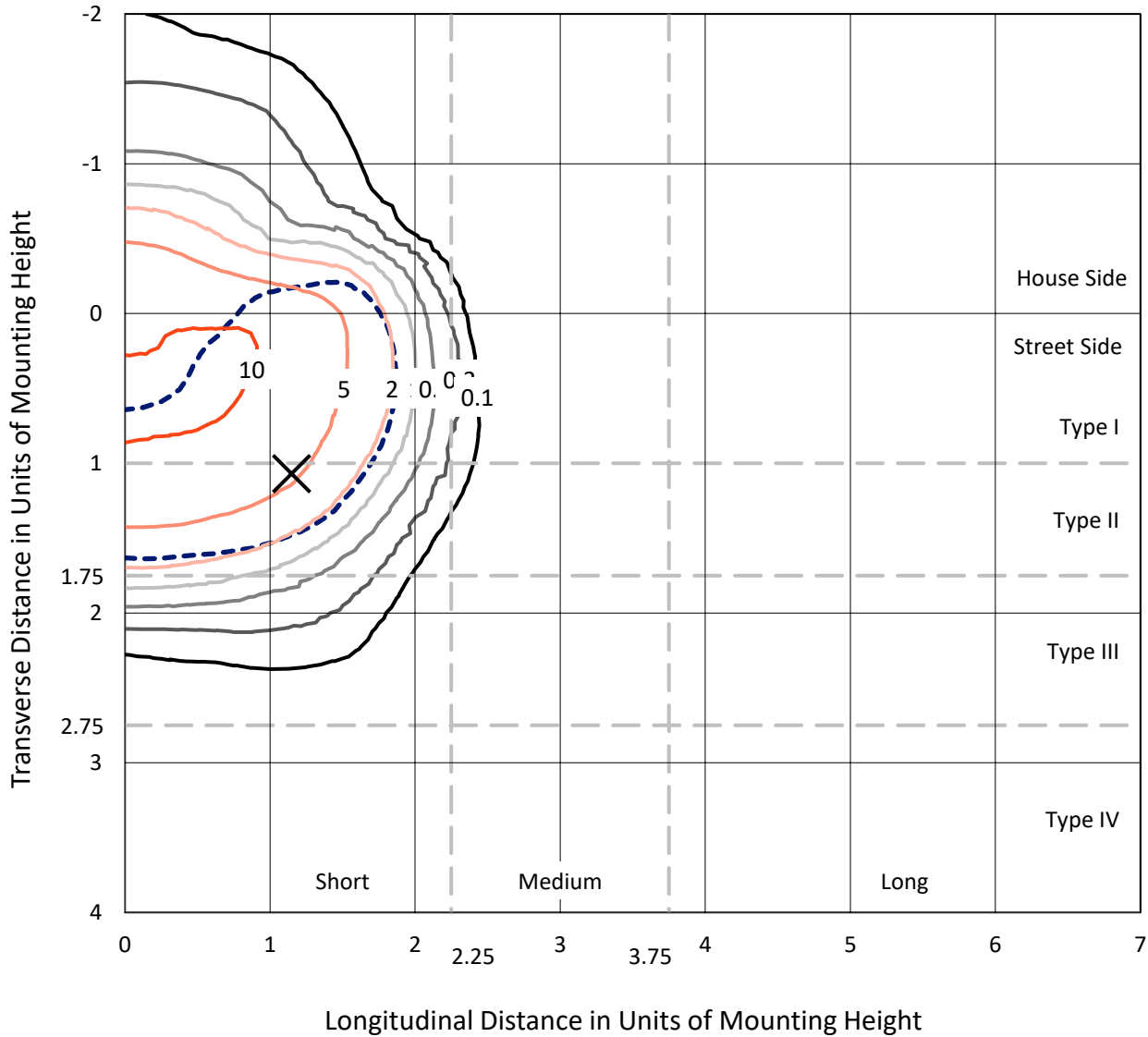
Lumens per Lamp: N/A  
Luminaire Lumens: 5131.2 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

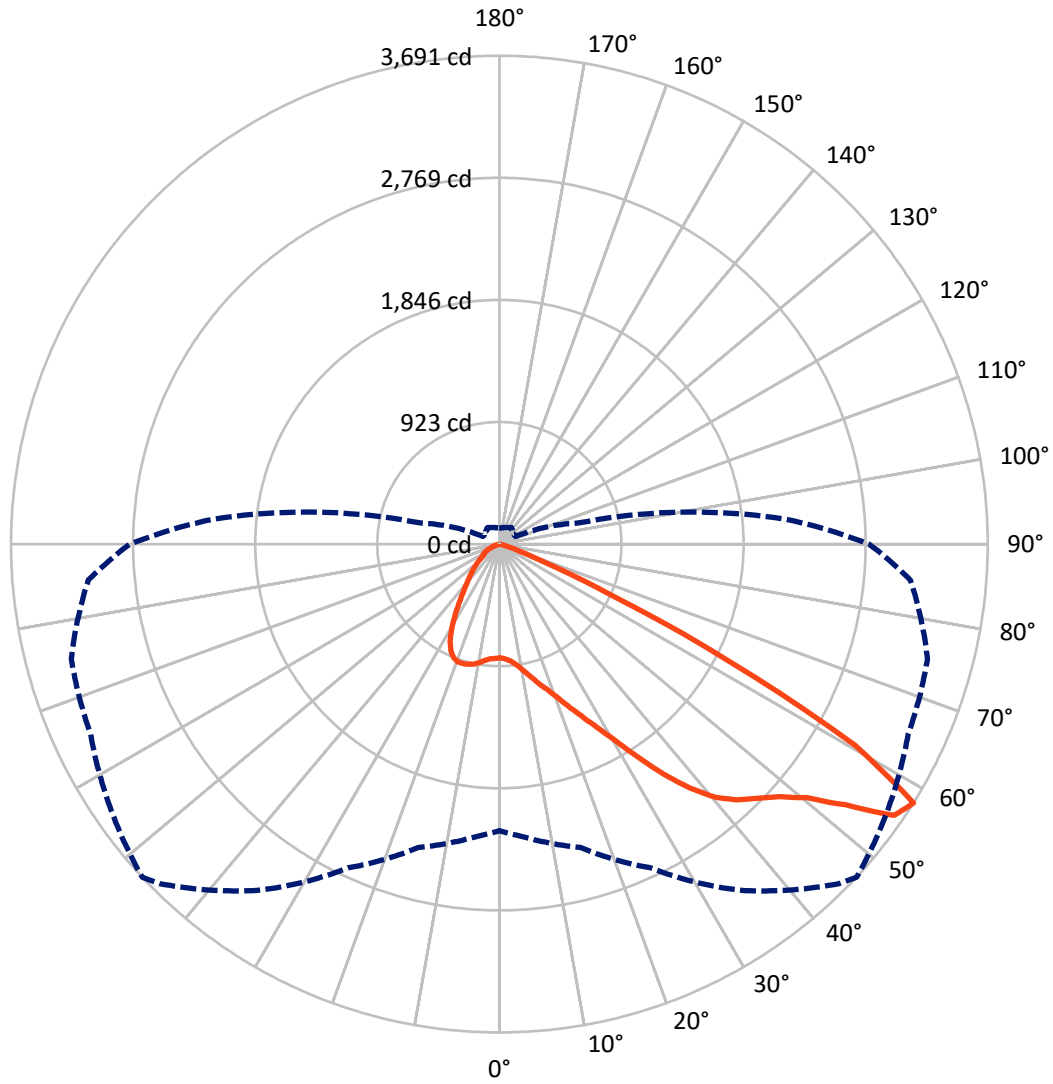
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1113.2	0.0	1113.2
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	4018.0	0.0	4018.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5131.2	0.0	5131.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	1.7
10°-20°	288.4	5.6
20°-30°	535.4	10.4
30°-40°	857.1	16.7
40°-50°	1252.9	24.4
50°-60°	1546.2	30.1
60°-70°	516.7	10.1
70°-80°	48.1	0.9
80°-90°	1.0	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°	5131.2	100.0
0°-180°	5131.2	100.0

**Coefficient of Utilization**



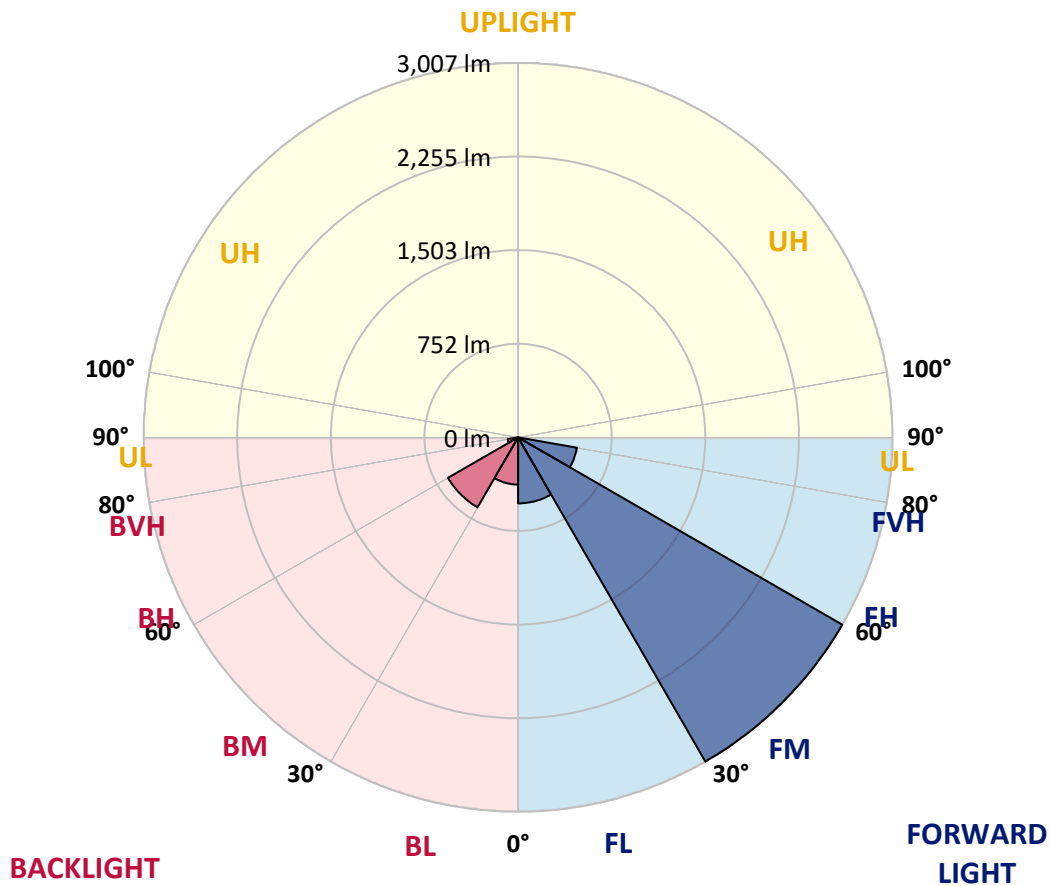
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.3	10.3			
FM (30°-60°)	3006.8	58.6			
FH (60°-80°)	480.2	9.4			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	378.9	7.4	B1/500		
BM (30°-60°)	649.3	12.7	B1/1000		
BH (60°-80°)	84.6	1.6	B0/110		G0/110
BVH (80°-90°)	0.3	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°	47°	55°	65°	75°	85°
0°	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0
2.5°	867.9	867.3	866.7	870.3	869.1	868.5	869.7	869.7	869.7	866.1	859.0
5°	888.8	888.8	888.2	891.7	888.8	887.0	887.6	887.6	885.2	878.6	869.7
7.5°	921.5	920.3	919.1	922.7	919.7	919.1	920.3	916.7	912.6	901.9	889.3
10°	968.6	968.6	966.8	970.4	968.0	966.8	966.8	964.4	956.7	940.0	921.5
12.5°	1033.5	1030.5	1026.4	1023.4	1022.2	1021.6	1022.2	1018.6	1010.3	988.8	963.2
15°	1104.4	1102.0	1095.5	1090.7	1084.1	1082.9	1086.5	1083.5	1075.2	1046.0	1009.7
17.5°	1193.7	1196.7	1180.0	1169.9	1150.9	1149.7	1150.9	1155.6	1149.7	1112.1	1059.1
20°	1270.0	1272.4	1259.9	1252.7	1235.4	1227.7	1230.1	1237.8	1231.3	1187.2	1113.3
22.5°	1351.6	1354.6	1341.5	1326.6	1318.8	1318.8	1327.8	1338.5	1329.6	1271.8	1175.3
25°	1449.3	1451.7	1440.9	1421.3	1407.6	1424.9	1438.0	1466.6	1451.7	1373.0	1248.5
27.5°	1561.3	1561.9	1546.4	1526.1	1519.0	1551.1	1564.3	1608.3	1602.4	1486.8	1326.0
30°	1681.0	1681.6	1678.0	1664.3	1657.8	1700.1	1717.9	1781.7	1777.5	1628.0	1431.4
32.5°	1805.5	1805.5	1812.1	1810.9	1818.6	1887.7	1916.3	1989.0	1984.8	1800.7	1562.5
35°	1930.6	1931.2	1942.5	1971.1	2003.3	2095.0	2132.5	2220.7	2211.2	2007.4	1729.9
37.5°	2073.0	2067.0	2082.5	2125.4	2196.9	2302.9	2338.6	2422.6	2411.9	2218.9	1948.5
40°	2244.5	2233.8	2233.8	2283.8	2364.8	2487.0	2517.3	2559.0	2522.7	2389.9	2162.9
42.5°	2433.9	2423.8	2410.7	2454.8	2522.7	2618.0	2643.0	2631.7	2601.9	2551.3	2407.1
45°	2625.8	2610.3	2619.2	2646.0	2685.3	2730.6	2740.1	2687.7	2674.0	2688.3	2609.1
47.5°	2771.7	2761.0	2783.0	2820.5	2852.7	2859.3	2852.7	2780.0	2778.8	2829.5	2749.1
50°	2820.5	2821.7	2882.5	2964.7	3016.5	3021.9	3012.9	2929.5	2918.2	2933.1	2824.7
52.5°	2825.3	2830.1	2918.8	3075.5	3216.7	3281.0	3273.8	3183.9	3073.1	3057.0	2939.1
55°	2710.3	2738.3	2862.2	3091.0	3391.2	3596.7	3620.5	3448.4	3284.0	3270.3	3185.1
57.5°	2166.5	2223.7	2373.2	2699.0	3196.4	3629.5	3691.4	3567.5	3408.5	3350.1	3119.0
60°	1295.0	1365.9	1509.4	1909.1	2432.8	2983.2	3089.8	3107.1	3033.8	2865.2	2392.8
62.5°	555.8	549.8	726.7	1032.9	1446.9	1896.0	1944.3	2019.4	2083.1	1906.8	1452.3
65°	190.6	207.3	288.3	465.8	724.3	880.4	923.3	990.6	1081.2	892.3	531.9
67.5°	117.9	125.1	166.2	275.2	390.8	384.8	365.7	355.0	345.5	236.5	145.9
70°	85.8	91.7	116.8	189.4	262.7	184.7	160.2	129.9	144.2	132.8	103.6
72.5°	57.8	62.5	80.4	115.0	134.6	89.9	83.4	94.7	114.4	109.0	84.6
75°	34.5	37.5	45.9	56.0	54.8	46.5	47.1	66.7	87.6	81.6	60.2
77.5°	23.8	25.0	30.4	36.3	26.8	14.3	13.1	18.5	29.8	29.8	20.3
80°	6.0	7.7	7.7	4.8	4.2	3.6	3.6	5.4	8.3	6.0	3.0
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
87.5°	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
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°	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0
2.5°	863.1	856.0	860.8	859.6	863.1	864.3	859.0	857.8	858.4	851.2	848.8
5°	871.5	863.1	865.5	863.1	867.3	870.9	869.1	871.5	874.5	869.1	866.7
7.5°	889.3	881.0	880.4	876.8	882.8	885.2	884.6	891.1	897.1	893.5	889.9
10°	920.3	909.0	907.8	904.8	906.6	908.4	901.9	903.0	908.4	904.2	902.5
12.5°	958.4	944.7	941.8	934.6	934.6	925.7	911.4	908.4	912.6	909.6	906.6
15°	999.5	981.1	976.3	963.8	951.9	935.2	920.3	916.7	919.7	916.2	913.8
17.5°	1045.4	1024.6	1009.1	987.0	960.8	941.2	924.5	916.7	912.0	904.8	904.2
20°	1090.7	1063.3	1037.1	1001.9	967.4	937.6	910.2	889.9	872.7	861.9	857.8
22.5°	1143.1	1102.6	1060.3	1010.9	961.4	916.2	867.9	833.4	803.6	793.4	788.7
25°	1199.1	1146.7	1083.5	1019.2	941.2	868.5	803.0	751.7	712.4	699.3	694.0
27.5°	1261.1	1189.0	1107.4	1017.4	899.5	800.6	713.6	649.9	611.2	599.3	603.4
30°	1339.7	1243.8	1137.2	999.0	836.9	705.3	603.4	549.8	520.6	509.3	509.9
32.5°	1444.5	1322.4	1180.6	959.6	756.5	596.9	507.5	468.2	448.5	433.7	432.5
35°	1594.6	1442.1	1221.1	896.5	658.8	500.4	435.4	404.5	377.1	359.8	362.8
37.5°	1774.5	1592.8	1243.2	811.3	549.2	425.3	381.2	349.7	318.7	293.1	296.1
40°	1987.8	1790.0	1241.4	699.3	449.1	374.1	336.0	299.0	260.3	237.1	239.5
42.5°	2225.5	1976.5	1202.7	580.8	372.3	332.4	292.5	246.0	208.5	194.2	194.8
45°	2431.6	2127.8	1134.8	458.1	313.3	291.9	247.2	199.6	182.9	172.7	172.2
47.5°	2584.1	2238.6	1037.7	360.4	265.7	255.0	203.1	178.7	165.6	157.3	156.1
50°	2669.2	2277.3	930.4	282.4	224.6	216.2	181.7	162.0	153.1	147.7	146.5
52.5°	2783.6	2323.7	853.6	222.8	188.2	176.9	167.4	150.7	144.7	140.6	138.8
55°	2964.7	2413.7	786.9	176.9	156.7	154.3	157.9	144.2	140.6	134.0	131.6
57.5°	2794.3	2168.3	611.2	137.0	132.2	141.2	152.5	137.6	128.7	122.7	120.3
60°	1966.3	1441.5	307.4	110.2	117.9	132.2	143.6	124.5	115.6	116.8	115.6
62.5°	1084.1	721.4	138.2	92.3	102.5	116.8	122.7	107.8	101.9	112.0	113.8
65°	354.4	245.4	79.8	71.5	81.0	95.3	106.0	102.5	101.3	113.2	116.8
67.5°	109.0	81.0	54.2	51.2	56.0	70.3	89.4	110.8	119.1	122.7	124.5
70°	81.6	63.7	46.5	43.5	45.9	53.6	75.7	92.3	87.0	87.6	86.4
72.5°	65.5	50.6	39.9	38.1	38.1	36.9	39.9	50.0	56.6	59.6	59.6
75°	45.9	35.7	30.4	28.0	22.0	17.9	16.1	16.1	14.3	13.7	13.1
77.5°	15.5	13.1	11.9	9.5	6.6	5.4	4.8	4.2	3.0	1.8	1.2
80°	2.4	1.8	1.2	1.2	1.2	0.6	0.6	0.6	0.0	0.0	0.0
82.5°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.0	0.0
85°	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	0.6	0.6	0.6	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)