

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: P631346

Luminaire Tested: GWS-SA1F-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631346  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

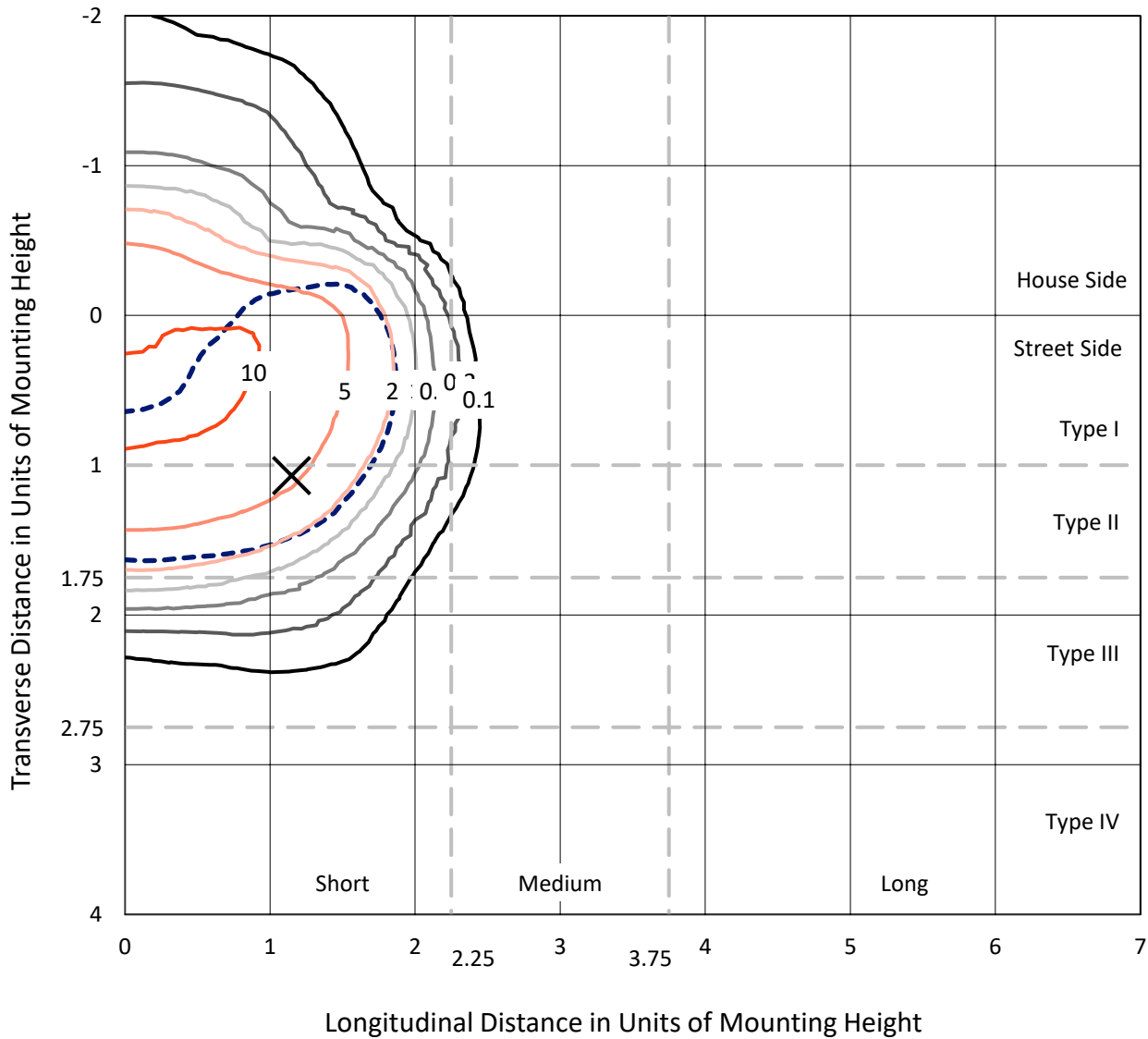
Lumens per Lamp: N/A  
Luminaire Lumens: 5202.5 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

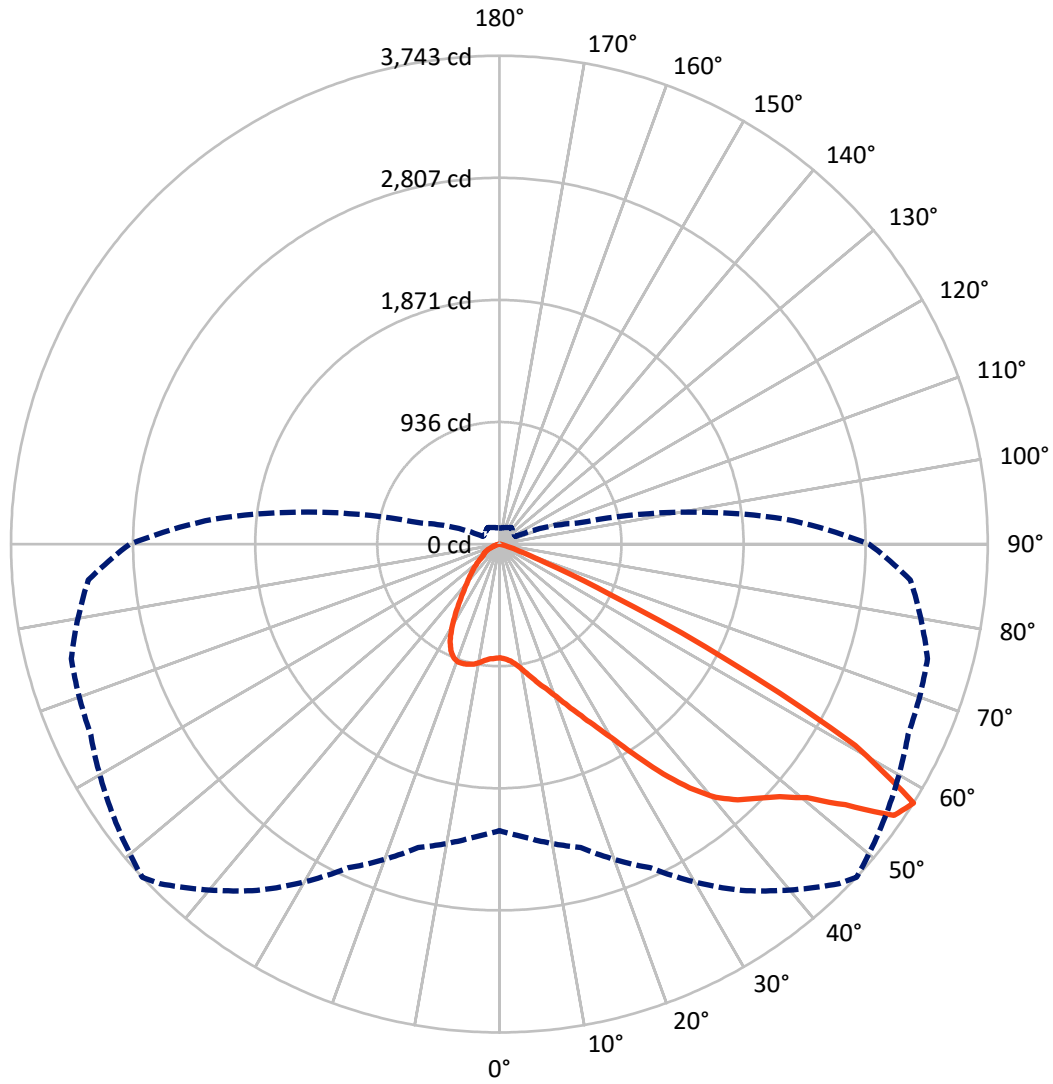
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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	1128.7	0.0	1128.7
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	4073.8	0.0	4073.8
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5202.5	0.0	5202.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	1.7
10°-20°	292.4	5.6
20°-30°	542.8	10.4
30°-40°	869.0	16.7
40°-50°	1270.3	24.4
50°-60°	1567.7	30.1
60°-70°	523.8	10.1
70°-80°	48.8	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°	5202.5	100.0
0°-180°	5202.5	100.0

**Coefficient of Utilization**



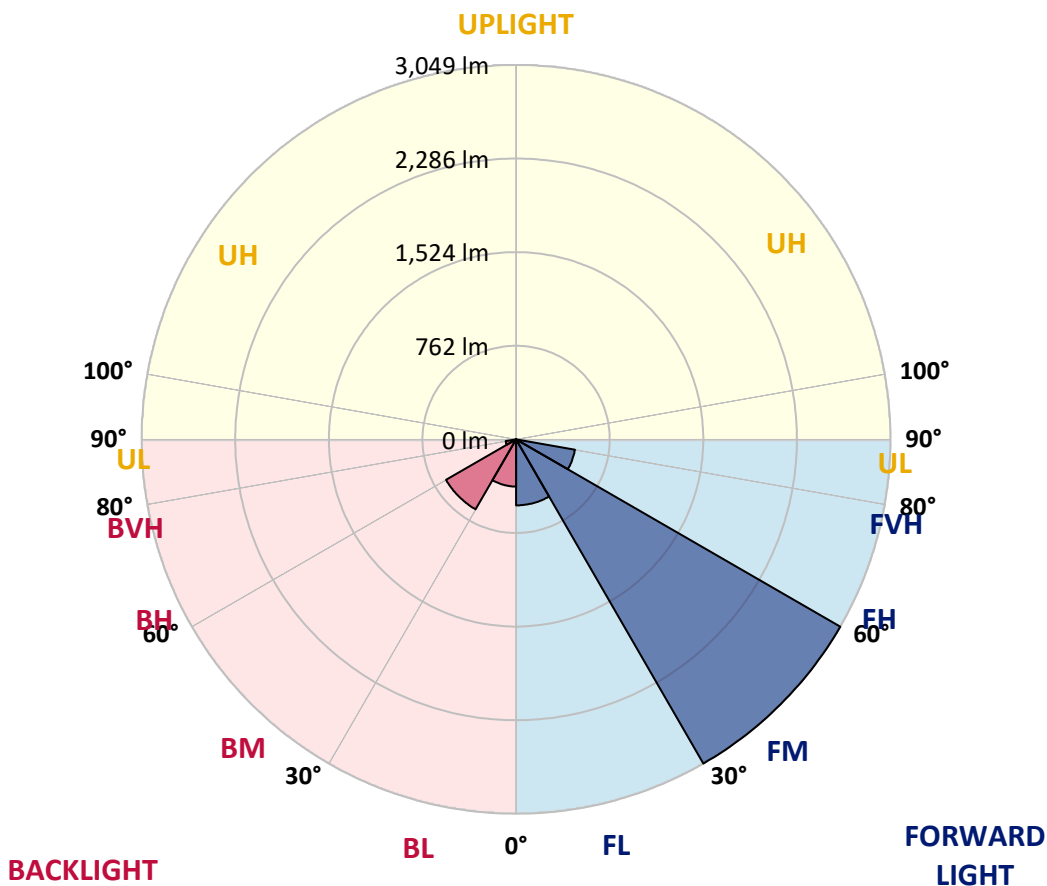
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.7	10.3			
FM (30°-60°)	3048.6	58.6			
FH (60°-80°)	486.8	9.4			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	384.2	7.4	B1/500		
BM (30°-60°)	658.4	12.7	B1/1000		
BH (60°-80°)	85.8	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°	870.9	870.9	870.9	870.9	870.9	870.9	870.9	870.9	870.9	870.9	870.9
2.5°	880.0	879.4	878.8	882.4	881.2	880.6	881.8	881.8	881.8	878.2	870.9
5°	901.1	901.1	900.5	904.1	901.1	899.3	899.9	899.9	897.5	890.8	881.8
7.5°	934.3	933.1	931.9	935.5	932.5	931.9	933.1	929.5	925.3	914.4	901.7
10°	982.0	982.0	980.2	983.8	981.4	980.2	980.2	977.8	970.0	953.0	934.3
12.5°	1047.9	1044.8	1040.6	1037.6	1036.4	1035.8	1036.4	1032.8	1024.3	1002.6	976.6
15°	1119.7	1117.3	1110.7	1105.8	1099.2	1098.0	1101.6	1098.6	1090.1	1060.5	1023.7
17.5°	1210.3	1213.3	1196.4	1186.2	1166.8	1165.6	1166.8	1171.7	1165.6	1127.6	1073.8
20°	1287.6	1290.0	1277.4	1270.1	1252.6	1244.8	1247.2	1255.0	1248.4	1203.7	1128.8
22.5°	1370.4	1373.4	1360.1	1345.0	1337.2	1337.2	1346.2	1357.1	1348.0	1289.4	1191.6
25°	1469.4	1471.8	1461.0	1441.0	1427.1	1444.7	1457.9	1486.9	1471.8	1392.1	1265.9
27.5°	1583.0	1583.6	1567.9	1547.3	1540.1	1572.7	1586.0	1630.7	1624.6	1507.5	1344.4
30°	1704.4	1705.0	1701.3	1687.5	1680.8	1723.7	1741.8	1806.4	1802.2	1650.6	1451.3
32.5°	1830.6	1830.6	1837.2	1836.0	1843.9	1913.9	1942.9	2016.6	2012.4	1825.8	1584.2
35°	1957.4	1958.0	1969.5	1998.5	2031.1	2124.1	2162.2	2251.5	2241.9	2035.3	1753.9
37.5°	2101.8	2095.7	2111.4	2154.9	2227.4	2334.9	2371.1	2456.3	2445.4	2249.7	1975.5
40°	2275.7	2264.8	2264.8	2315.6	2397.7	2521.5	2552.3	2594.6	2557.8	2423.1	2193.0
42.5°	2467.8	2457.5	2444.2	2488.9	2557.8	2654.4	2679.8	2668.3	2638.1	2586.7	2440.6
45°	2662.2	2646.5	2655.6	2682.8	2722.6	2768.5	2778.2	2725.0	2711.2	2725.7	2645.3
47.5°	2810.2	2799.3	2821.7	2859.7	2892.3	2899.0	2892.3	2818.7	2817.5	2868.8	2787.3
50°	2859.7	2860.9	2922.5	3005.9	3058.4	3063.9	3054.8	2970.3	2958.8	2973.9	2864.0
52.5°	2864.6	2869.4	2959.4	3118.2	3261.4	3326.6	3319.3	3228.1	3115.8	3099.5	2979.9
55°	2748.0	2776.4	2902.0	3133.9	3438.3	3646.7	3670.8	3496.3	3329.6	3315.7	3229.4
57.5°	2196.6	2254.6	2406.2	2736.5	3240.8	3679.9	3742.7	3617.1	3455.8	3396.6	3162.3
60°	1313.0	1384.9	1530.4	1935.7	2466.6	3024.6	3132.7	3150.2	3075.9	2905.0	2426.1
62.5°	563.5	557.5	736.8	1047.3	1467.0	1922.4	1971.3	2047.4	2112.0	1933.3	1472.4
65°	193.3	210.2	292.3	472.3	734.4	892.6	936.1	1004.4	1096.2	904.7	539.3
67.5°	119.6	126.8	168.5	279.0	396.2	390.2	370.8	360.0	350.3	239.8	148.0
70°	87.0	93.0	118.4	192.1	266.3	187.2	162.5	131.7	146.2	134.7	105.1
72.5°	58.6	63.4	81.5	116.6	136.5	91.2	84.6	96.0	116.0	110.5	85.8
75°	35.0	38.0	46.5	56.8	55.6	47.1	47.7	67.6	88.8	82.7	61.0
77.5°	24.2	25.4	30.8	36.8	27.2	14.5	13.3	18.7	30.2	30.2	20.5
80°	6.0	7.9	7.9	4.8	4.2	3.6	3.6	5.4	8.5	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°	870.9	870.9	870.9	870.9	870.9	870.9	870.9	870.9	870.9	870.9	870.9
2.5°	875.1	867.9	872.7	871.5	875.1	876.3	870.9	869.7	870.3	863.1	860.6
5°	883.6	875.1	877.5	875.1	879.4	883.0	881.2	883.6	886.6	881.2	878.8
7.5°	901.7	893.3	892.6	889.0	895.1	897.5	896.9	903.5	909.6	905.9	902.3
10°	933.1	921.6	920.4	917.4	919.2	921.0	914.4	915.6	921.0	916.8	915.0
12.5°	971.8	957.9	954.9	947.6	947.6	938.5	924.1	921.0	925.3	922.2	919.2
15°	1013.4	994.7	989.9	977.2	965.1	948.2	933.1	929.5	932.5	928.9	926.5
17.5°	1059.9	1038.8	1023.1	1000.8	974.2	954.2	937.3	929.5	924.7	917.4	916.8
20°	1105.8	1078.1	1051.5	1015.9	980.8	950.6	922.8	902.3	884.8	873.9	869.7
22.5°	1159.0	1117.9	1075.0	1024.9	974.8	928.9	880.0	844.9	814.7	804.5	799.6
25°	1215.8	1162.6	1098.6	1033.4	954.2	880.6	814.1	762.2	722.3	709.0	703.6
27.5°	1278.6	1205.5	1122.8	1031.6	912.0	811.7	723.5	658.9	619.7	607.6	611.8
30°	1358.3	1261.1	1153.0	1012.8	848.6	715.1	611.8	557.5	527.9	516.4	517.0
32.5°	1464.6	1340.8	1197.0	973.0	767.0	605.2	514.6	474.7	454.8	439.7	438.5
35°	1616.8	1462.2	1238.1	909.0	668.0	507.3	441.5	410.1	382.3	364.8	367.8
37.5°	1799.2	1615.0	1260.5	822.6	556.8	431.2	386.5	354.5	323.1	297.1	300.2
40°	2015.4	1814.9	1258.6	709.0	455.4	379.3	340.6	303.2	263.9	240.4	242.8
42.5°	2256.4	2003.9	1219.4	588.9	377.5	337.0	296.5	249.4	211.4	196.9	197.5
45°	2465.3	2157.3	1150.5	464.4	317.7	295.9	250.6	202.3	185.4	175.1	174.5
47.5°	2620.0	2269.7	1052.1	365.4	269.4	258.5	205.9	181.2	167.9	159.4	158.2
50°	2706.3	2308.9	943.4	286.3	227.7	219.2	184.2	164.3	155.2	149.8	148.6
52.5°	2822.3	2356.0	865.5	225.9	190.8	179.4	169.7	152.8	146.8	142.5	140.7
55°	3005.9	2447.2	797.8	179.4	158.8	156.4	160.0	146.2	142.5	135.9	133.5
57.5°	2833.2	2198.4	619.7	138.9	134.1	143.1	154.6	139.5	130.5	124.4	122.0
60°	1993.7	1461.6	311.6	111.7	119.6	134.1	145.6	126.2	117.2	118.4	117.2
62.5°	1099.2	731.4	140.1	93.6	103.9	118.4	124.4	109.3	103.3	113.5	115.4
65°	359.4	248.8	80.9	72.5	82.1	96.6	107.5	103.9	102.7	114.8	118.4
67.5°	110.5	82.1	55.0	51.9	56.8	71.3	90.6	112.3	120.8	124.4	126.2
70°	82.7	64.6	47.1	44.1	46.5	54.4	76.7	93.6	88.2	88.8	87.6
72.5°	66.4	51.3	40.5	38.7	38.7	37.4	40.5	50.7	57.4	60.4	60.4
75°	46.5	36.2	30.8	28.4	22.3	18.1	16.3	16.3	14.5	13.9	13.3
77.5°	15.7	13.3	12.1	9.7	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)