

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: P631401

Luminaire Tested: GWS-SA1F-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631401
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5321.7 lumens
Efficiency: N/A
Efficacy: 79.2 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

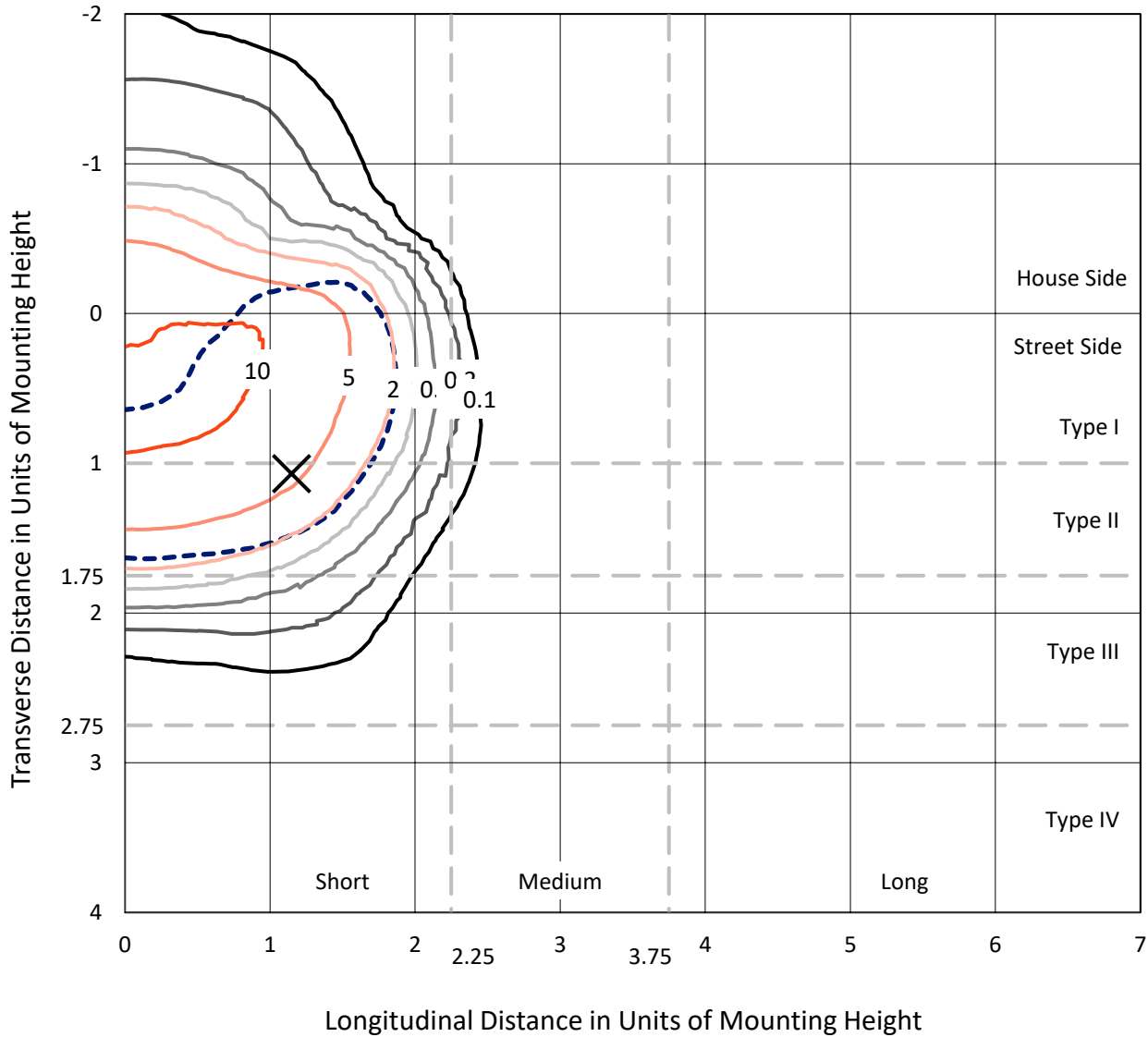
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

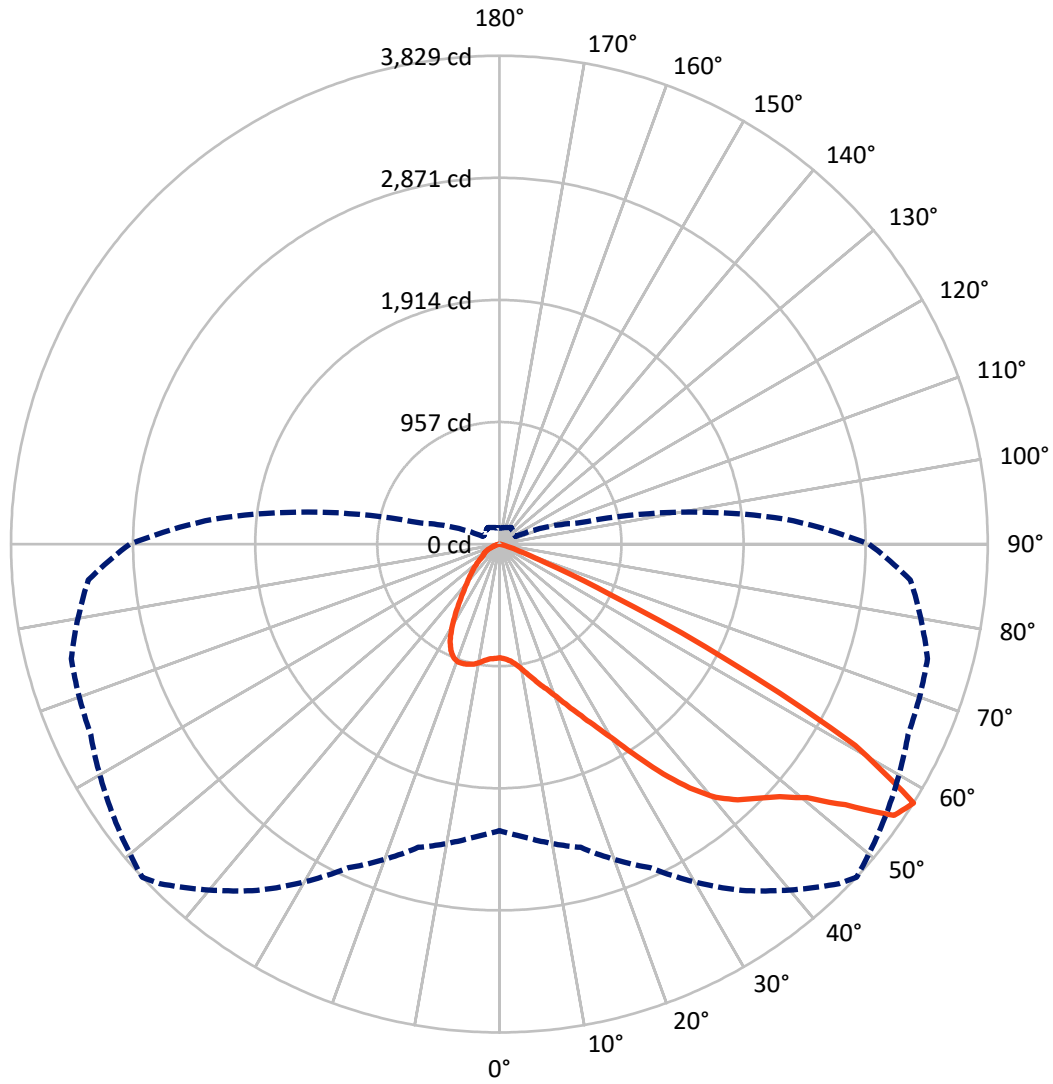
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 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
House Side	Lumens	1154.5	0.0	1154.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4167.1	0.0	4167.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	5321.7	0.0	5321.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.7
10°-20°	299.1	5.6
20°-30°	555.3	10.4
30°-40°	888.9	16.7
40°-50°	1299.4	24.4
50°-60°	1603.7	30.1
60°-70°	535.9	10.1
70°-80°	49.9	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°	5321.7	100.0
0°-180°	5321.7	100.0

Coefficient of Utilization



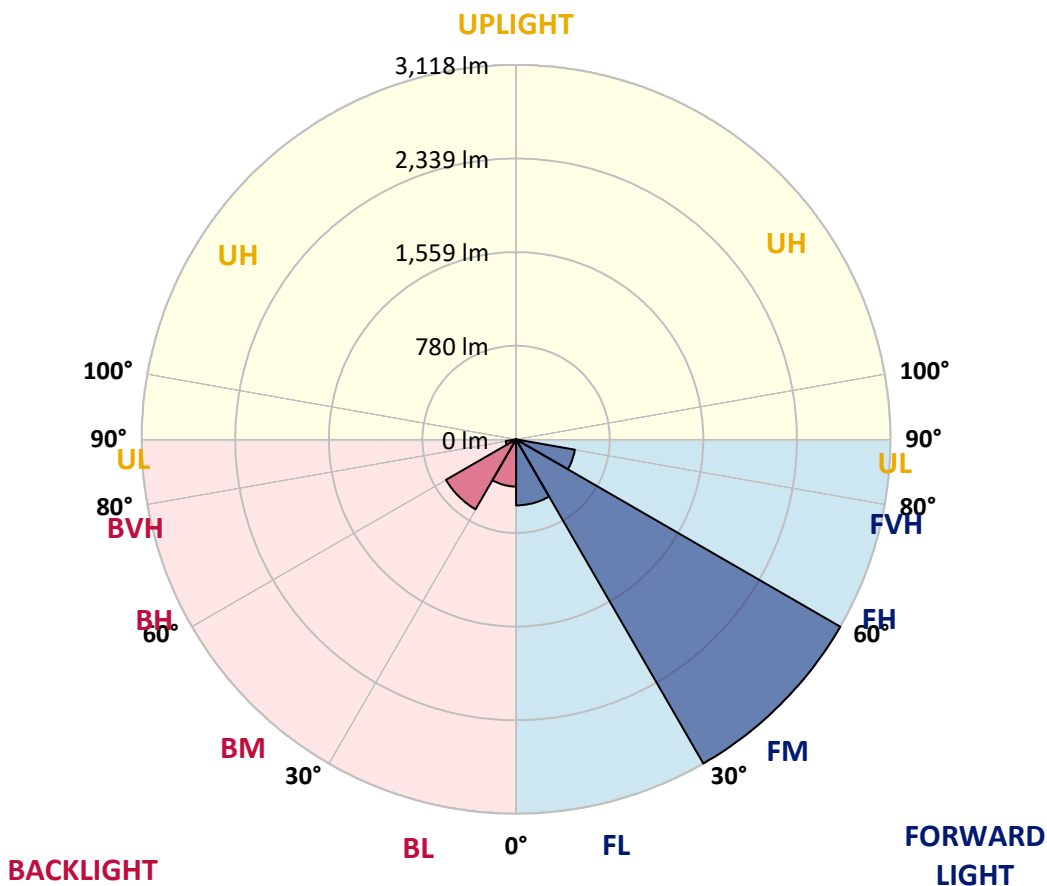
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.0	10.3			
FM (30°-60°)	3118.5	58.6			
FH (60°-80°)	498.0	9.4			G0/660
FVH (80°-90°)	0.7	0.0			G0/10
BL (0°-30°)	393.0	7.4	B1/500		
BM (30°-60°)	673.4	12.7	B1/1000		
BH (60°-80°)	87.8	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°	890.9	890.9	890.9	890.9	890.9	890.9	890.9	890.9	890.9	890.9	890.9
2.5°	900.1	899.5	898.9	902.6	901.4	900.7	902.0	902.0	902.0	898.3	890.9
5°	921.7	921.7	921.1	924.8	921.7	919.9	920.5	920.5	918.0	911.2	902.0
7.5°	955.7	954.5	953.3	957.0	953.9	953.3	954.5	950.8	946.5	935.3	922.4
10°	1004.5	1004.5	1002.7	1006.4	1003.9	1002.7	1002.7	1000.2	992.2	974.9	955.7
12.5°	1071.9	1068.8	1064.5	1061.4	1060.1	1059.5	1060.1	1056.4	1047.8	1025.5	999.0
15°	1145.4	1142.9	1136.1	1131.2	1124.4	1123.1	1126.9	1123.8	1115.1	1084.8	1047.2
17.5°	1238.1	1241.1	1223.8	1213.3	1193.6	1192.3	1193.6	1198.5	1192.3	1153.4	1098.4
20°	1317.1	1319.6	1306.6	1299.2	1281.3	1273.3	1275.7	1283.8	1277.0	1231.3	1154.7
22.5°	1401.8	1404.9	1391.3	1375.8	1367.8	1367.8	1377.1	1388.2	1378.9	1319.0	1218.9
25°	1503.1	1505.6	1494.4	1474.1	1459.8	1477.8	1491.4	1521.0	1505.6	1424.0	1294.9
27.5°	1619.2	1619.9	1603.8	1582.8	1575.4	1608.7	1622.3	1668.0	1661.9	1542.0	1375.2
30°	1743.4	1744.0	1740.3	1726.1	1719.3	1763.2	1781.7	1847.8	1843.5	1688.4	1484.6
32.5°	1872.5	1872.5	1879.3	1878.1	1886.1	1957.8	1987.4	2062.8	2058.5	1867.6	1620.5
35°	2002.3	2002.9	2014.6	2044.3	2077.6	2172.8	2211.7	2303.1	2293.2	2082.0	1794.1
37.5°	2149.9	2143.7	2159.8	2204.3	2278.4	2388.4	2425.5	2512.6	2501.4	2301.3	2020.8
40°	2327.8	2316.7	2316.7	2368.6	2452.6	2579.3	2610.8	2654.0	2616.4	2478.6	2243.2
42.5°	2524.3	2513.8	2500.2	2545.9	2616.4	2715.2	2741.1	2729.4	2698.5	2646.0	2496.5
45°	2723.2	2707.2	2716.4	2744.2	2785.0	2832.0	2841.9	2787.5	2773.3	2788.1	2705.9
47.5°	2874.6	2863.5	2886.3	2925.3	2958.6	2965.4	2958.6	2883.2	2882.0	2934.5	2851.1
50°	2925.3	2926.5	2989.5	3074.8	3128.5	3134.1	3124.8	3038.3	3026.6	3042.0	2929.6
52.5°	2930.2	2935.1	3027.2	3189.7	3336.1	3402.8	3395.4	3302.1	3187.2	3170.5	3048.2
55°	2811.0	2840.0	2968.5	3205.7	3517.1	3730.2	3754.9	3576.4	3405.9	3391.7	3303.3
57.5°	2246.9	2306.2	2461.3	2799.2	3315.1	3764.2	3828.5	3700.0	3535.0	3474.5	3234.8
60°	1343.1	1416.6	1565.5	1980.0	2523.1	3093.9	3204.5	3222.4	3146.4	2971.6	2481.7
62.5°	576.4	570.2	753.7	1071.3	1500.6	1966.4	2016.5	2094.3	2160.4	1977.6	1506.2
65°	197.7	215.0	299.0	483.1	751.2	913.1	957.6	1027.4	1121.3	925.5	551.7
67.5°	122.3	129.7	172.4	285.4	405.3	399.1	379.3	368.2	358.3	245.3	151.4
70°	89.0	95.1	121.1	196.5	272.4	191.5	166.2	134.7	149.5	137.8	107.5
72.5°	59.9	64.9	83.4	119.2	139.6	93.3	86.5	98.2	118.6	113.1	87.7
75°	35.8	38.9	47.6	58.1	56.8	48.2	48.8	69.2	90.8	84.6	62.4
77.5°	24.7	25.9	31.5	37.7	27.8	14.8	13.6	19.2	30.9	30.9	21.0
80°	6.2	8.0	8.0	4.9	4.3	3.7	3.7	5.6	8.6	6.2	3.1
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°	890.9	890.9	890.9	890.9	890.9	890.9	890.9	890.9	890.9	890.9	890.9
2.5°	895.2	887.8	892.7	891.5	895.2	896.4	890.9	889.6	890.2	882.8	880.4
5°	903.8	895.2	897.7	895.2	899.5	903.2	901.4	903.8	906.9	901.4	898.9
7.5°	922.4	913.7	913.1	909.4	915.6	918.0	917.4	924.2	930.4	926.7	923.0
10°	954.5	942.8	941.5	938.4	940.3	942.1	935.3	936.6	942.1	937.8	936.0
12.5°	994.0	979.8	976.7	969.3	969.3	960.1	945.2	942.1	946.5	943.4	940.3
15°	1036.7	1017.5	1012.6	999.6	987.2	969.9	954.5	950.8	953.9	950.2	947.7
17.5°	1084.2	1062.6	1046.5	1023.7	996.5	976.1	958.8	950.8	945.8	938.4	937.8
20°	1131.2	1102.8	1075.6	1039.1	1003.3	972.4	944.0	923.0	905.1	893.9	889.6
22.5°	1185.5	1143.5	1099.7	1048.4	997.1	950.2	900.1	864.3	833.4	822.9	818.0
25°	1243.6	1189.3	1123.8	1057.0	976.1	900.7	832.8	779.7	738.9	725.3	719.7
27.5°	1307.9	1233.1	1148.5	1055.2	932.9	830.3	740.1	674.0	633.9	621.5	625.8
30°	1389.4	1290.0	1179.4	1036.0	868.0	731.5	625.8	570.2	540.0	528.2	528.8
32.5°	1498.1	1371.5	1224.5	995.3	784.6	619.0	526.4	485.6	465.2	449.8	448.5
35°	1653.8	1495.7	1266.5	929.8	683.3	518.9	451.6	419.5	391.1	373.1	376.2
37.5°	1840.4	1652.0	1289.3	841.4	569.6	441.1	395.4	362.6	330.5	304.0	307.0
40°	2061.6	1856.5	1287.5	725.3	465.8	388.0	348.4	310.1	270.0	245.9	248.4
42.5°	2308.1	2049.8	1247.3	602.3	386.1	344.7	303.3	255.1	216.2	201.4	202.0
45°	2521.8	2206.8	1176.9	475.1	325.0	302.7	256.4	207.0	189.7	179.2	178.5
47.5°	2680.0	2321.7	1076.2	373.8	275.5	264.4	210.7	185.3	171.7	163.1	161.9
50°	2768.3	2361.8	965.0	292.8	232.9	224.3	188.4	168.0	158.8	153.2	152.0
52.5°	2886.9	2410.0	885.3	231.1	195.2	183.5	173.6	156.3	150.1	145.8	143.9
55°	3074.8	2503.3	816.1	183.5	162.5	160.0	163.7	149.5	145.8	139.0	136.5
57.5°	2898.1	2248.8	633.9	142.1	137.2	146.4	158.2	142.7	133.4	127.3	124.8
60°	2039.3	1495.1	318.8	114.3	122.3	137.2	148.9	129.1	119.9	121.1	119.9
62.5°	1124.4	748.1	143.3	95.8	106.3	121.1	127.3	111.8	105.6	116.1	118.0
65°	367.6	254.5	82.8	74.1	84.0	98.8	110.0	106.3	105.0	117.4	121.1
67.5°	113.1	84.0	56.2	53.1	58.1	72.9	92.7	114.9	123.6	127.3	129.1
70°	84.6	66.1	48.2	45.1	47.6	55.6	78.5	95.8	90.2	90.8	89.6
72.5°	68.0	52.5	41.4	39.5	39.5	38.3	41.4	51.9	58.7	61.8	61.8
75°	47.6	37.1	31.5	29.0	22.9	18.5	16.7	16.7	14.8	14.2	13.6
77.5°	16.1	13.6	12.4	9.9	6.8	5.6	4.9	4.3	3.1	1.9	1.2
80°	2.5	1.9	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)