

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: P631460

Luminaire Tested: GWS-SA1F-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5331 lumens
Efficiency: N/A
Efficacy: 79.3 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

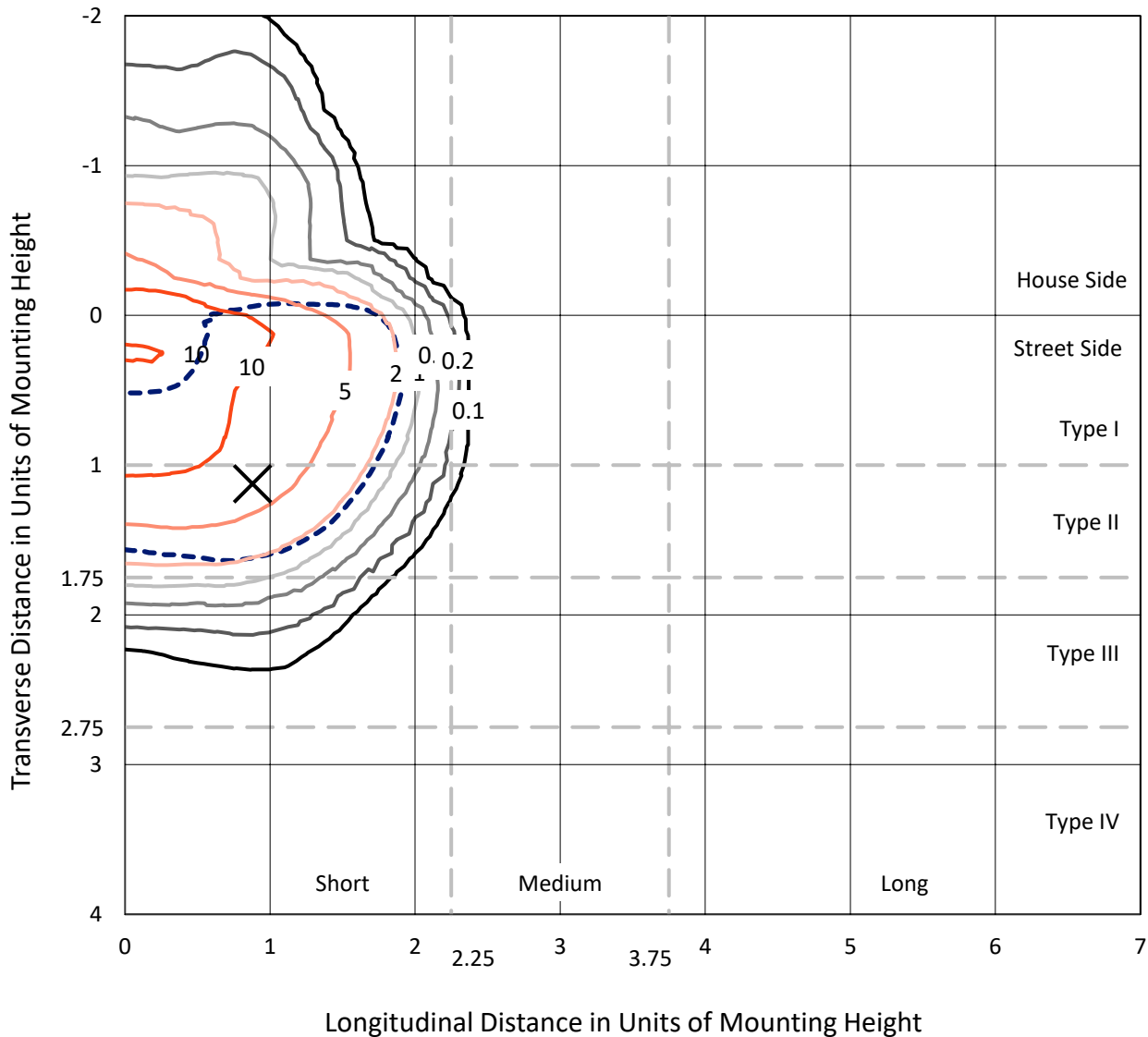
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

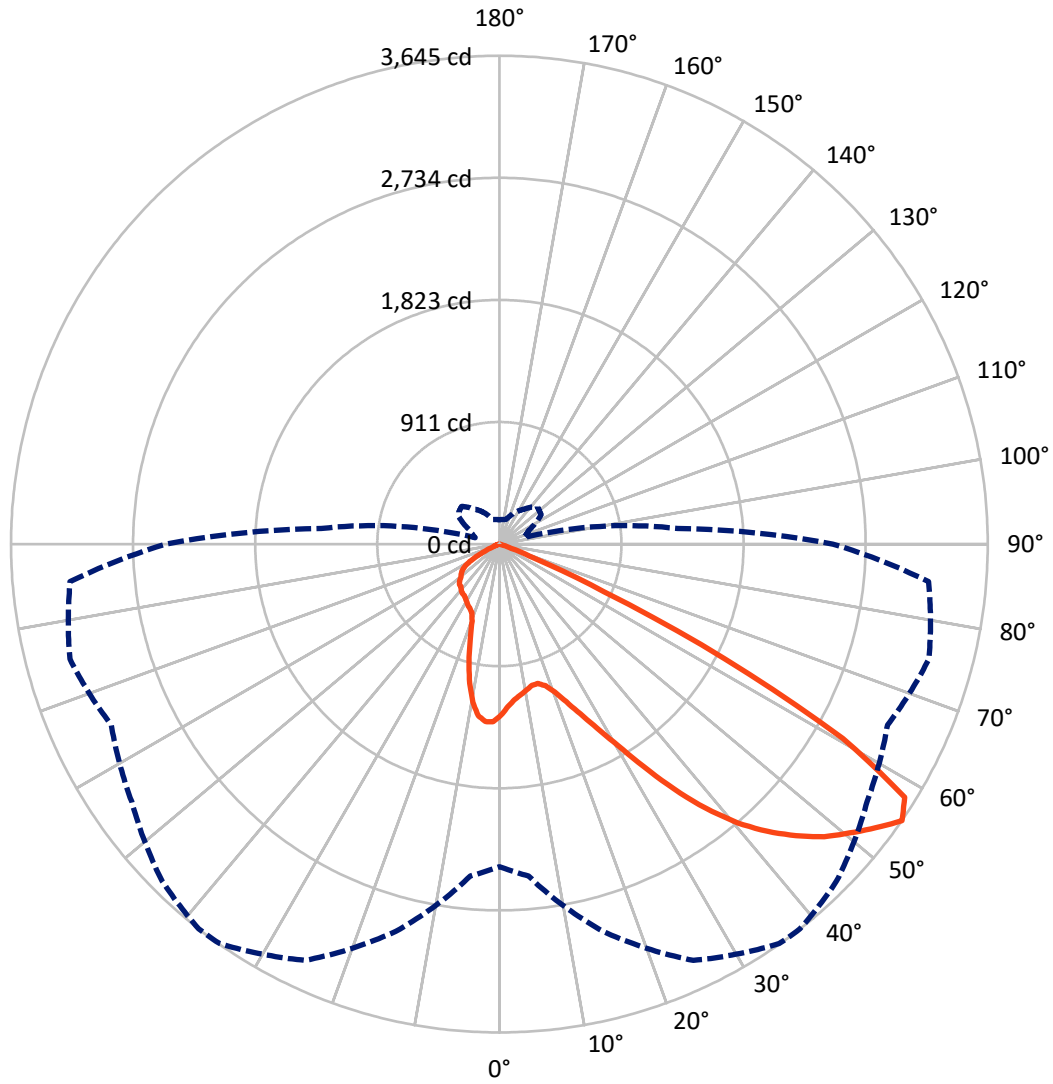
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1038.6	0.0	1038.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4292.3	0.0	4292.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	5331.0	0.0	5331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	2.2
10°-20°	318.2	6.0
20°-30°	546.1	10.2
30°-40°	905.7	17.0
40°-50°	1331.5	25.0
50°-60°	1555.9	29.2
60°-70°	527.4	9.9
70°-80°	27.0	0.5
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°	5331.0	100.0
0°-180°	5331.0	100.0

Coefficient of Utilization

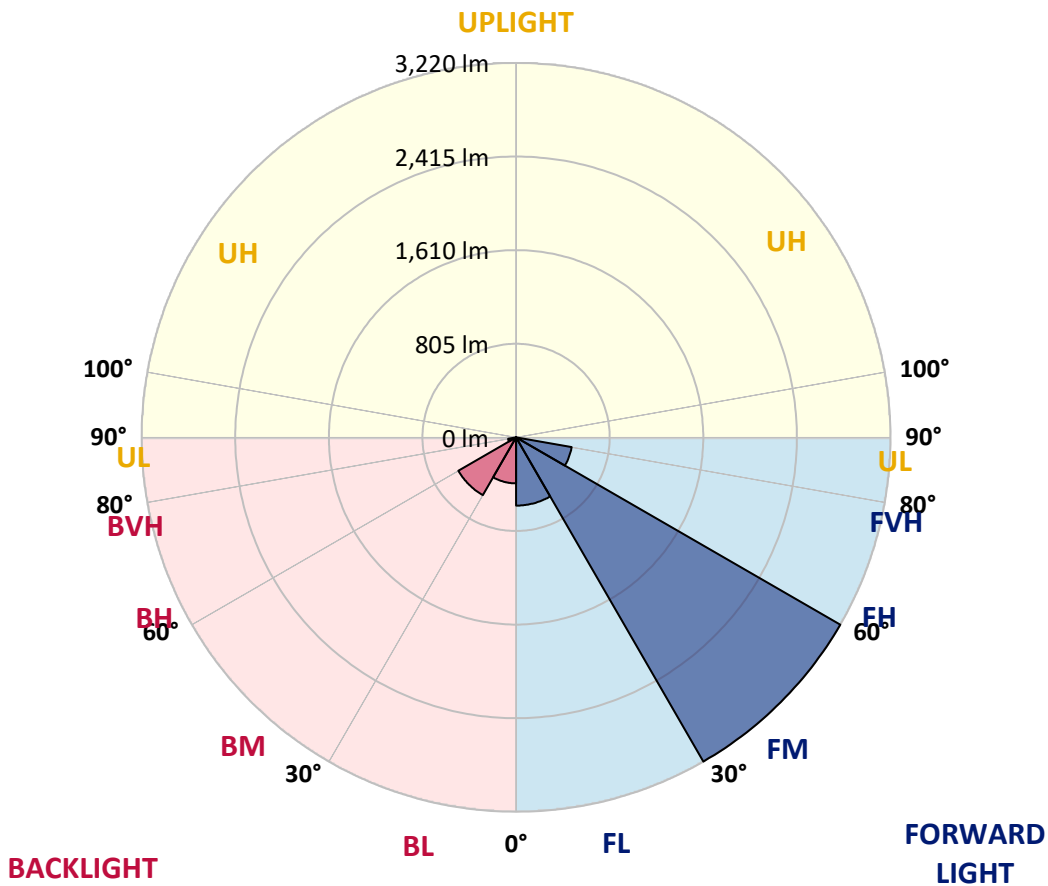


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.8	11.0			
FM (30°-60°)	3219.8	60.4			
FH (60°-80°)	485.2	9.1			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	395.7	7.4	B1/500		
BM (30°-60°)	573.3	10.8	B1/1000		
BH (60°-80°)	69.1	1.3	B0/110		G0/110
BVH (80°-90°)	0.5	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°	38°	45°	55°	65°	75°	85°
0°	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4
2.5°	1190.7	1188.2	1193.1	1202.9	1212.0	1215.0	1224.2	1237.0	1244.9	1263.8	1279.0
5°	1137.0	1135.8	1140.7	1149.2	1161.4	1165.7	1179.7	1201.0	1222.4	1255.3	1287.6
7.5°	1088.3	1087.7	1095.0	1113.9	1131.6	1137.0	1154.1	1180.3	1208.9	1259.5	1307.1
10°	1024.3	1024.9	1038.9	1065.8	1098.0	1109.0	1136.4	1174.2	1211.4	1276.6	1342.4
12.5°	1003.6	1004.8	1012.1	1032.8	1068.2	1082.2	1120.6	1177.9	1225.4	1301.0	1388.1
15°	1054.2	1054.2	1048.1	1050.5	1066.4	1079.2	1119.4	1190.1	1249.2	1330.2	1433.2
17.5°	1152.3	1148.6	1133.4	1112.7	1107.2	1111.5	1143.7	1216.3	1282.7	1364.3	1484.4
20°	1285.1	1286.3	1256.5	1213.2	1178.5	1177.9	1197.4	1262.6	1330.8	1405.2	1539.8
22.5°	1446.0	1441.1	1401.5	1342.4	1282.1	1277.2	1285.1	1333.3	1400.3	1469.8	1608.1
25°	1632.4	1630.0	1573.9	1494.7	1414.9	1403.3	1403.3	1450.9	1499.6	1561.8	1689.7
27.5°	1827.4	1827.4	1773.2	1681.8	1575.8	1555.1	1552.0	1608.1	1640.4	1652.6	1758.6
30°	2027.9	2025.5	1971.9	1878.0	1764.7	1743.3	1734.8	1776.3	1799.4	1762.8	1844.5
32.5°	2231.4	2235.7	2181.5	2094.3	1993.2	1979.2	1953.0	1953.0	1971.9	1920.7	1979.8
35°	2450.2	2449.0	2406.3	2347.2	2260.7	2244.8	2201.6	2133.9	2162.6	2140.0	2166.8
37.5°	2643.4	2652.5	2631.8	2587.9	2517.8	2502.0	2430.7	2308.2	2330.2	2365.5	2389.3
40°	2839.6	2846.9	2867.6	2853.6	2765.2	2736.0	2609.2	2408.1	2432.5	2553.8	2622.0
42.5°	3032.1	3035.8	3077.8	3101.0	2982.8	2931.6	2744.5	2469.1	2494.7	2701.2	2820.7
45°	3154.6	3162.5	3232.0	3302.7	3174.7	3104.6	2862.1	2547.1	2558.0	2803.6	2967.5
47.5°	3149.7	3168.0	3298.4	3427.0	3339.8	3264.3	3003.5	2672.0	2653.7	2899.9	3064.4
50°	3051.6	3073.6	3260.6	3464.8	3458.7	3388.6	3160.7	2853.0	2795.7	2985.2	3076.6
52.5°	2848.1	2911.5	3194.2	3469.6	3554.3	3519.0	3355.1	3096.7	2987.6	3107.7	3096.1
55°	2408.1	2486.1	2992.5	3428.2	3640.9	3645.1	3559.2	3350.8	3196.0	3318.5	3216.1
57.5°	1828.0	1890.2	2303.3	3051.6	3497.7	3567.7	3638.4	3484.9	3324.6	3462.3	3244.2
60°	1101.7	1173.6	1442.3	2239.4	2824.9	2944.4	3221.6	3191.8	2998.6	3057.7	2660.4
62.5°	446.7	484.4	666.0	1233.9	1778.1	1889.6	2155.3	2200.4	2152.8	2092.5	1613.6
65°	163.3	178.5	266.9	510.0	817.7	858.6	998.7	1078.5	1144.4	974.3	600.2
67.5°	101.2	110.9	173.7	262.0	297.4	276.6	281.5	335.8	320.5	198.0	107.2
70°	74.9	82.9	135.9	181.6	120.0	92.6	62.8	67.0	60.3	53.0	52.4
72.5°	51.8	59.1	101.8	107.2	46.3	32.9	23.2	32.3	36.6	36.0	37.2
75°	34.1	39.6	64.0	42.0	11.6	9.1	7.9	17.1	21.9	21.9	22.5
77.5°	20.1	23.2	22.5	8.5	2.4	2.4	1.8	3.0	4.9	5.5	6.7
80°	2.4	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8
82.5°	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8
85°	0.0	0.0	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.8	1.8
87.5°	0.0	0.0	0.6	0.6	1.2	1.2	1.2	1.2	1.2	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°	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4	1278.4
2.5°	1290.6	1286.3	1304.0	1316.8	1327.2	1332.0	1325.3	1324.7	1324.7	1311.3	1307.7
5°	1305.8	1307.7	1332.6	1343.6	1345.4	1339.3	1324.1	1313.8	1307.7	1293.6	1285.7
7.5°	1335.1	1341.2	1364.9	1363.1	1346.7	1318.6	1278.4	1247.3	1227.2	1205.3	1191.9
10°	1377.1	1388.7	1403.3	1377.7	1325.3	1254.0	1171.2	1112.1	1076.7	1051.7	1036.5
12.5°	1428.3	1439.9	1435.0	1374.7	1265.6	1138.3	1031.6	946.3	905.5	882.9	867.1
15°	1480.1	1487.4	1455.7	1338.1	1160.2	989.0	870.2	785.5	735.5	717.2	703.8
17.5°	1533.1	1531.3	1459.4	1266.2	1019.4	820.8	703.8	645.9	631.9	628.8	627.6
20°	1588.6	1572.1	1444.8	1163.2	850.0	654.4	588.0	591.7	617.3	629.5	631.9
22.5°	1651.9	1610.5	1408.2	1023.7	677.0	545.4	552.1	588.0	622.8	639.2	641.6
25°	1719.6	1645.9	1347.3	844.6	533.8	501.5	541.1	582.5	619.7	639.8	642.3
27.5°	1764.1	1654.4	1247.3	664.2	458.2	484.4	526.5	566.1	604.5	626.4	629.5
30°	1812.2	1650.7	1111.5	511.9	432.6	469.8	506.4	542.3	577.7	602.0	604.5
32.5°	1882.9	1648.3	945.7	415.6	422.3	458.2	485.0	514.9	539.3	553.3	551.5
35°	1975.5	1645.2	752.5	374.7	416.2	449.1	470.4	484.4	457.6	449.1	450.9
37.5°	2094.3	1652.6	589.9	357.7	414.4	446.7	464.9	424.7	383.3	367.4	365.0
40°	2226.0	1671.4	449.7	351.0	420.5	452.7	444.2	377.8	326.6	295.5	288.8
42.5°	2358.2	1692.2	355.9	348.5	430.8	469.8	410.1	343.7	266.9	249.2	246.8
45°	2456.3	1688.5	307.7	344.3	440.0	479.6	401.0	294.9	238.3	230.3	230.9
47.5°	2505.6	1648.3	281.5	334.5	443.6	469.8	378.4	274.8	218.8	227.3	234.6
50°	2479.4	1544.1	257.1	315.6	435.7	457.0	342.5	259.6	209.0	244.3	260.8
52.5°	2447.8	1416.1	230.3	286.4	416.8	439.3	328.4	255.3	202.9	235.8	248.0
55°	2489.8	1335.1	186.5	241.3	379.6	397.9	317.5	254.7	188.9	183.4	181.6
57.5°	2430.7	1173.6	133.4	173.7	291.3	315.0	309.5	250.4	167.6	167.0	169.4
60°	1878.6	716.0	91.4	110.3	178.5	201.1	280.9	239.5	144.4	132.8	133.4
62.5°	1067.6	304.7	62.8	68.2	91.4	108.5	214.5	217.5	133.4	126.7	133.4
65°	371.7	109.1	48.7	45.7	50.6	57.9	123.1	168.2	121.3	109.7	110.9
67.5°	76.8	54.2	43.3	37.8	37.8	37.8	62.8	104.8	99.9	87.1	88.4
70°	48.7	46.3	37.8	32.3	31.1	28.6	36.0	57.9	68.9	63.4	64.0
72.5°	36.0	35.3	29.9	26.2	23.2	20.7	22.5	28.6	35.3	36.6	37.2
75°	21.9	22.5	19.5	16.5	14.6	12.8	13.4	13.4	13.4	12.2	13.4
77.5°	6.7	7.3	6.1	4.9	4.3	4.3	4.3	3.7	3.0	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	0.6	0.6	0.0	0.0
82.5°	1.8	1.8	1.8	1.8	1.2	1.2	0.6	0.6	0.0	0.0	0.0
85°	1.8	1.8	1.8	1.8	1.2	1.2	0.6	0.6	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	1.2	1.2	0.6	0.6	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)