

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: P631350

Luminaire Tested: GWS-SA1F-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631350
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5284 lumens
Efficiency: N/A
Efficacy: 78.6 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

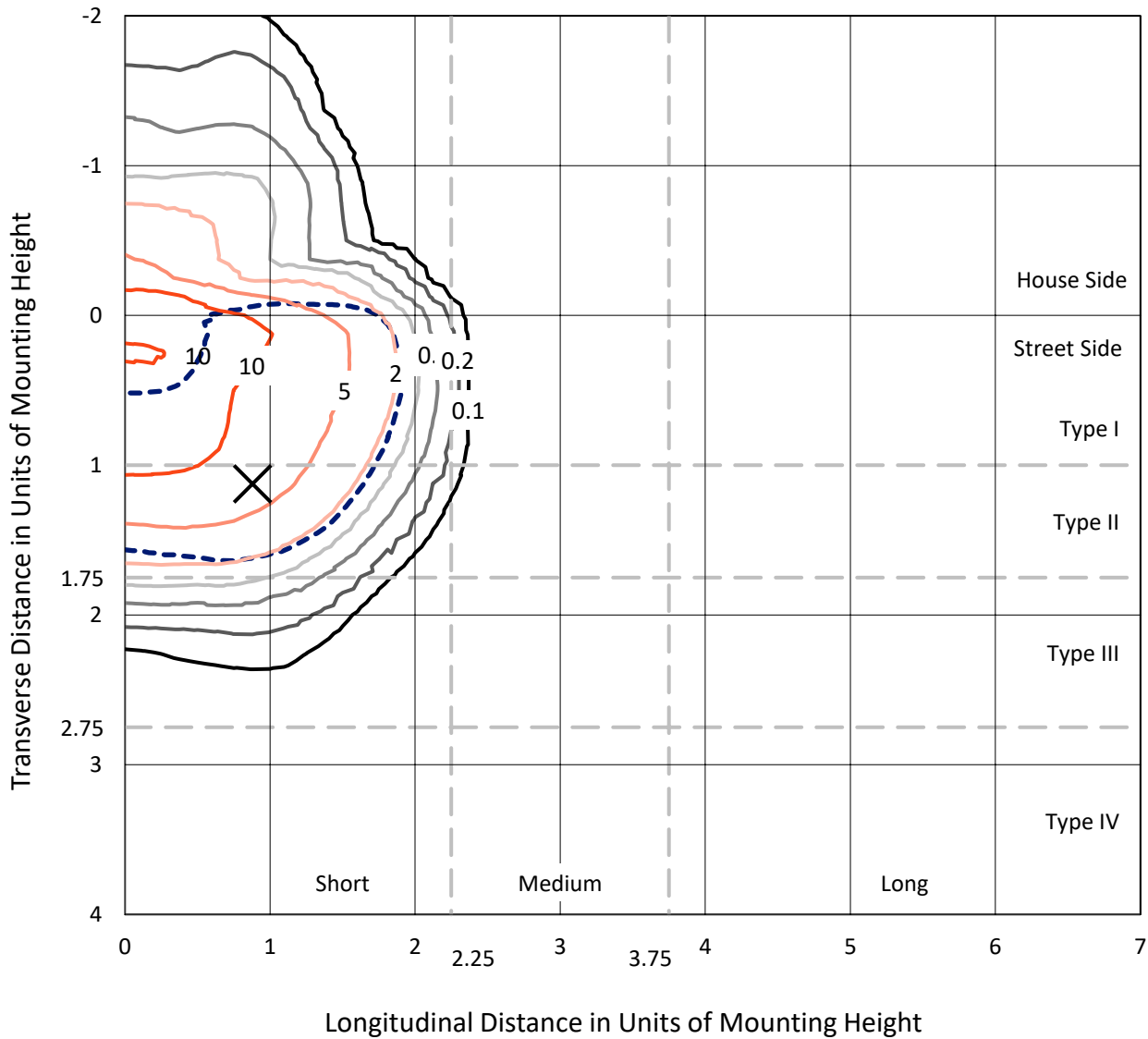
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

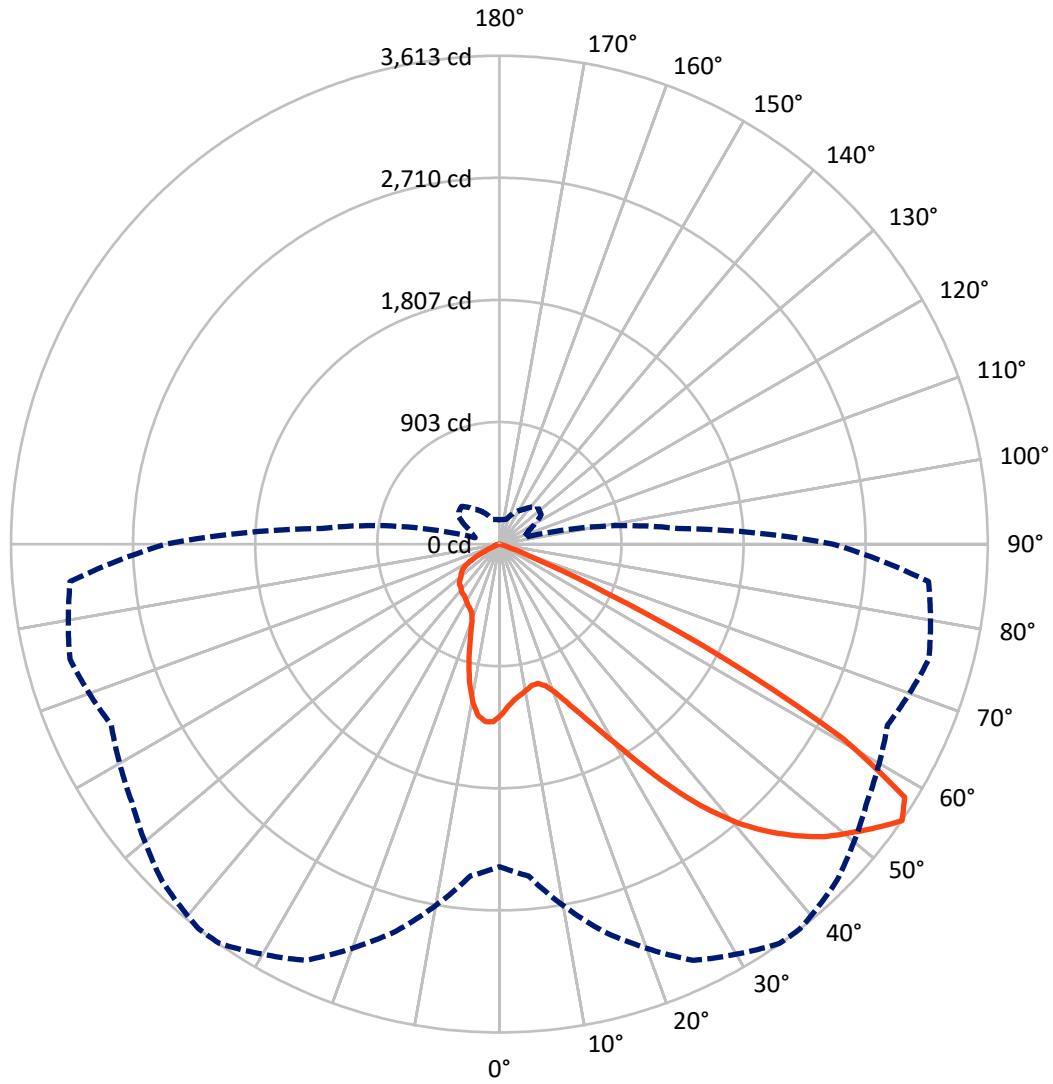
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 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	1029.5	0.0	1029.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4254.5	0.0	4254.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	5284.0	0.0	5284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	2.2
10°-20°	315.4	6.0
20°-30°	541.3	10.2
30°-40°	897.7	17.0
40°-50°	1319.7	25.0
50°-60°	1542.1	29.2
60°-70°	522.7	9.9
70°-80°	26.7	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°	5284.0	100.0
0°-180°	5284.0	100.0

Coefficient of Utilization



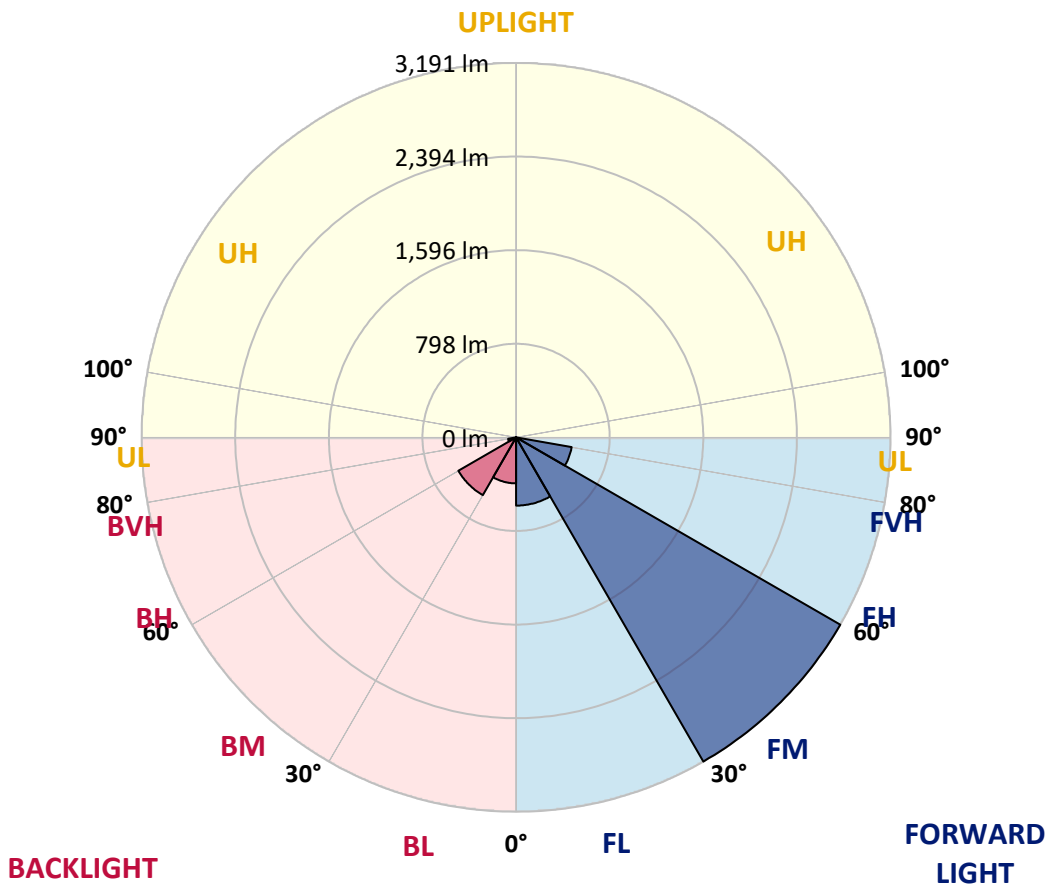
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.6	11.0			
FM (30°-60°)	3191.4	60.4			
FH (60°-80°)	480.9	9.1			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	392.2	7.4	B1/500		
BM (30°-60°)	568.2	10.8	B1/1000		
BH (60°-80°)	68.5	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°	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1
2.5°	1180.2	1177.8	1182.6	1192.3	1201.3	1204.3	1213.4	1226.1	1233.9	1252.6	1267.7
5°	1127.0	1125.8	1130.6	1139.1	1151.2	1155.4	1169.3	1190.4	1211.6	1244.2	1276.2
7.5°	1078.7	1078.1	1085.3	1104.1	1121.6	1127.0	1143.9	1169.9	1198.3	1248.4	1295.5
10°	1015.3	1015.9	1029.8	1056.4	1088.4	1099.2	1126.4	1163.9	1200.7	1265.3	1330.6
12.5°	994.8	996.0	1003.2	1023.7	1058.8	1072.7	1110.7	1167.5	1214.6	1289.5	1375.9
15°	1044.9	1044.9	1038.8	1041.3	1057.0	1069.6	1109.5	1179.6	1238.2	1318.5	1420.6
17.5°	1142.1	1138.5	1123.4	1102.9	1097.4	1101.7	1133.7	1205.5	1271.4	1352.3	1471.3
20°	1273.8	1275.0	1245.4	1202.5	1168.1	1167.5	1186.8	1251.4	1319.1	1392.8	1526.2
22.5°	1433.2	1428.4	1389.1	1330.6	1270.8	1265.9	1273.8	1321.5	1387.9	1456.8	1593.9
25°	1618.1	1615.6	1560.1	1481.6	1402.4	1391.0	1391.0	1438.1	1486.4	1548.0	1674.8
27.5°	1811.3	1811.3	1757.6	1667.0	1561.9	1541.3	1538.3	1593.9	1625.9	1638.0	1743.1
30°	2010.0	2007.6	1954.5	1861.5	1749.1	1728.0	1719.5	1760.6	1783.5	1747.3	1828.2
32.5°	2211.8	2216.0	2162.2	2075.9	1975.6	1961.7	1935.7	1935.7	1954.5	1903.7	1962.3
35°	2428.6	2427.4	2385.1	2326.5	2240.8	2225.1	2182.2	2115.1	2143.5	2121.2	2147.7
37.5°	2620.1	2629.1	2608.6	2565.1	2495.6	2479.9	2409.3	2287.9	2309.6	2344.6	2368.2
40°	2814.5	2821.8	2842.3	2828.4	2740.8	2711.9	2586.2	2386.9	2411.1	2531.3	2598.9
42.5°	3005.4	3009.0	3050.7	3073.6	2956.5	2905.7	2720.3	2447.3	2472.7	2677.4	2795.8
45°	3126.8	3134.6	3203.5	3273.6	3146.7	3077.3	2836.9	2524.6	2535.5	2778.9	2941.4
47.5°	3122.0	3140.1	3269.3	3396.8	3310.4	3235.5	2977.0	2648.4	2630.3	2874.3	3037.4
50°	3024.7	3046.5	3231.9	3434.2	3428.2	3358.7	3132.8	2827.8	2771.0	2958.9	3049.5
52.5°	2823.0	2885.8	3166.0	3439.0	3523.0	3488.0	3325.5	3069.4	2961.3	3080.3	3068.8
55°	2386.9	2464.2	2966.1	3398.0	3608.8	3613.0	3527.8	3321.3	3167.9	3289.3	3187.8
57.5°	1811.9	1873.5	2283.0	3024.7	3466.8	3536.3	3606.3	3454.1	3295.3	3431.8	3215.6
60°	1092.0	1163.3	1429.6	2219.6	2800.0	2918.4	3193.2	3163.6	2972.2	3030.8	2637.0
62.5°	442.7	480.2	660.1	1223.1	1762.4	1872.9	2136.3	2181.0	2133.9	2074.1	1599.3
65°	161.9	177.0	264.5	505.5	810.5	851.0	989.9	1069.0	1134.3	965.8	594.9
67.5°	100.3	109.9	172.1	259.7	294.7	274.2	279.0	332.8	317.7	196.3	106.3
70°	74.3	82.1	134.7	180.0	119.0	91.8	62.2	66.4	59.8	52.5	51.9
72.5°	51.3	58.6	100.9	106.3	45.9	32.6	23.0	32.0	36.2	35.6	36.8
75°	33.8	39.3	63.4	41.7	11.5	9.1	7.9	16.9	21.7	21.7	22.3
77.5°	19.9	23.0	22.3	8.5	2.4	2.4	1.8	3.0	4.8	5.4	6.6
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°	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1	1267.1
2.5°	1279.2	1275.0	1292.5	1305.2	1315.5	1320.3	1313.6	1313.0	1313.0	1299.8	1296.1
5°	1294.3	1296.1	1320.9	1331.8	1333.6	1327.5	1312.4	1302.2	1296.1	1282.2	1274.4
7.5°	1323.3	1329.4	1352.9	1351.1	1334.8	1307.0	1267.1	1236.3	1216.4	1194.7	1181.4
10°	1365.0	1376.5	1391.0	1365.6	1313.6	1243.0	1160.8	1102.3	1067.2	1042.5	1027.4
12.5°	1415.7	1427.2	1422.4	1362.6	1254.5	1128.2	1022.5	938.0	897.5	875.2	859.5
15°	1467.1	1474.3	1442.9	1326.3	1150.0	980.3	862.5	778.5	729.0	710.9	697.6
17.5°	1519.6	1517.8	1446.5	1255.1	1010.5	813.6	697.6	640.2	626.3	623.3	622.1
20°	1574.6	1558.3	1432.0	1153.0	842.5	648.7	582.8	586.5	611.8	623.9	626.3
22.5°	1637.4	1596.3	1395.8	1014.7	671.0	540.6	547.2	582.8	617.3	633.6	636.0
25°	1704.4	1631.3	1335.4	837.1	529.1	497.1	536.3	577.4	614.2	634.2	636.6
27.5°	1748.5	1639.8	1236.3	658.3	454.2	480.2	521.8	561.1	599.1	620.9	623.9
30°	1796.2	1636.2	1101.7	507.3	428.8	465.7	501.9	537.5	572.6	596.7	599.1
32.5°	1866.3	1633.8	937.4	411.9	418.6	454.2	480.8	510.4	534.5	548.4	546.6
35°	1958.1	1630.7	745.9	371.4	412.5	445.1	466.3	480.2	453.6	445.1	446.9
37.5°	2075.9	1638.0	584.6	354.5	410.7	442.7	460.8	421.0	379.9	364.2	361.8
40°	2206.3	1656.7	445.7	347.9	416.7	448.8	440.3	374.5	323.7	292.9	286.3
42.5°	2337.4	1677.2	352.7	345.5	427.0	465.7	406.5	340.6	264.5	247.0	244.6
45°	2434.6	1673.6	305.0	341.2	436.1	475.3	397.4	292.3	236.2	228.3	228.9
47.5°	2483.6	1633.8	279.0	331.6	439.7	465.7	375.1	272.4	216.8	225.3	232.5
50°	2457.6	1530.5	254.9	312.9	431.8	453.0	339.4	257.3	207.2	242.2	258.5
52.5°	2426.2	1403.6	228.3	283.9	413.1	435.5	325.5	253.1	201.1	233.7	245.8
55°	2467.8	1323.3	184.8	239.2	376.3	394.4	314.7	252.5	187.2	181.8	180.0
57.5°	2409.3	1163.3	132.3	172.1	288.7	312.3	306.8	248.2	166.1	165.5	167.9
60°	1862.1	709.7	90.6	109.3	177.0	199.3	278.4	237.4	143.1	131.7	132.3
62.5°	1058.2	302.0	62.2	67.6	90.6	107.5	212.6	215.6	132.3	125.6	132.3
65°	368.4	108.1	48.3	45.3	50.1	57.4	122.0	166.7	120.2	108.7	109.9
67.5°	76.1	53.8	42.9	37.4	37.4	37.4	62.2	103.9	99.1	86.4	87.6
70°	48.3	45.9	37.4	32.0	30.8	28.4	35.6	57.4	68.2	62.8	63.4
72.5°	35.6	35.0	29.6	26.0	23.0	20.5	22.3	28.4	35.0	36.2	36.8
75°	21.7	22.3	19.3	16.3	14.5	12.7	13.3	13.3	13.3	12.1	13.3
77.5°	6.6	7.2	6.0	4.8	4.2	4.2	4.2	3.6	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)