

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: P631295

Luminaire Tested: GWS-SA1F-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631295
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5211.6 lumens
Efficiency: N/A
Efficacy: 77.6 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

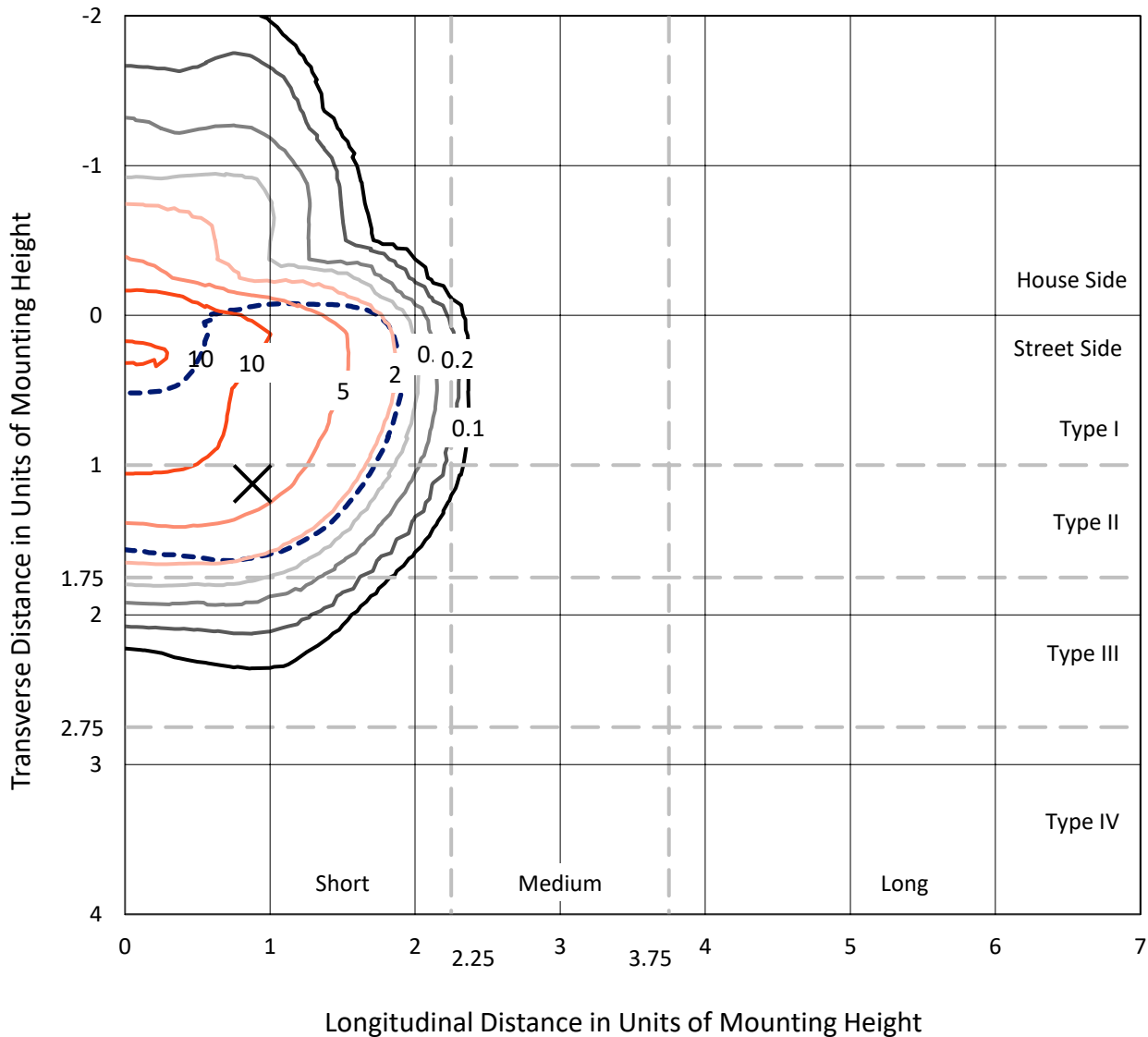
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

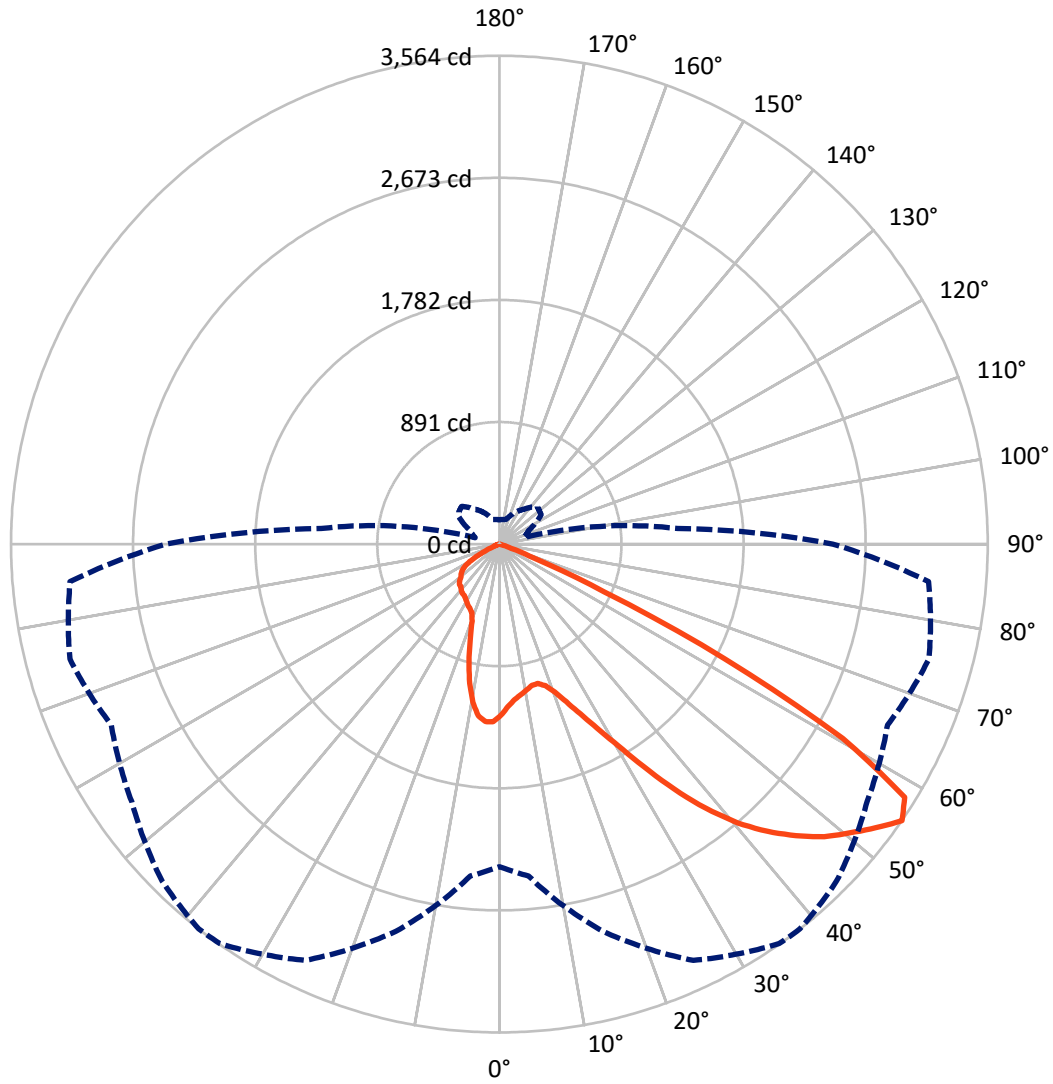
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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	1015.4	0.0	1015.4
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4196.2	0.0	4196.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	5211.6	0.0	5211.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	2.2
10°-20°	311.1	6.0
20°-30°	533.9	10.2
30°-40°	885.4	17.0
40°-50°	1301.6	25.0
50°-60°	1521.0	29.2
60°-70°	515.6	9.9
70°-80°	26.4	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°	5211.6	100.0
0°-180°	5211.6	100.0

Coefficient of Utilization



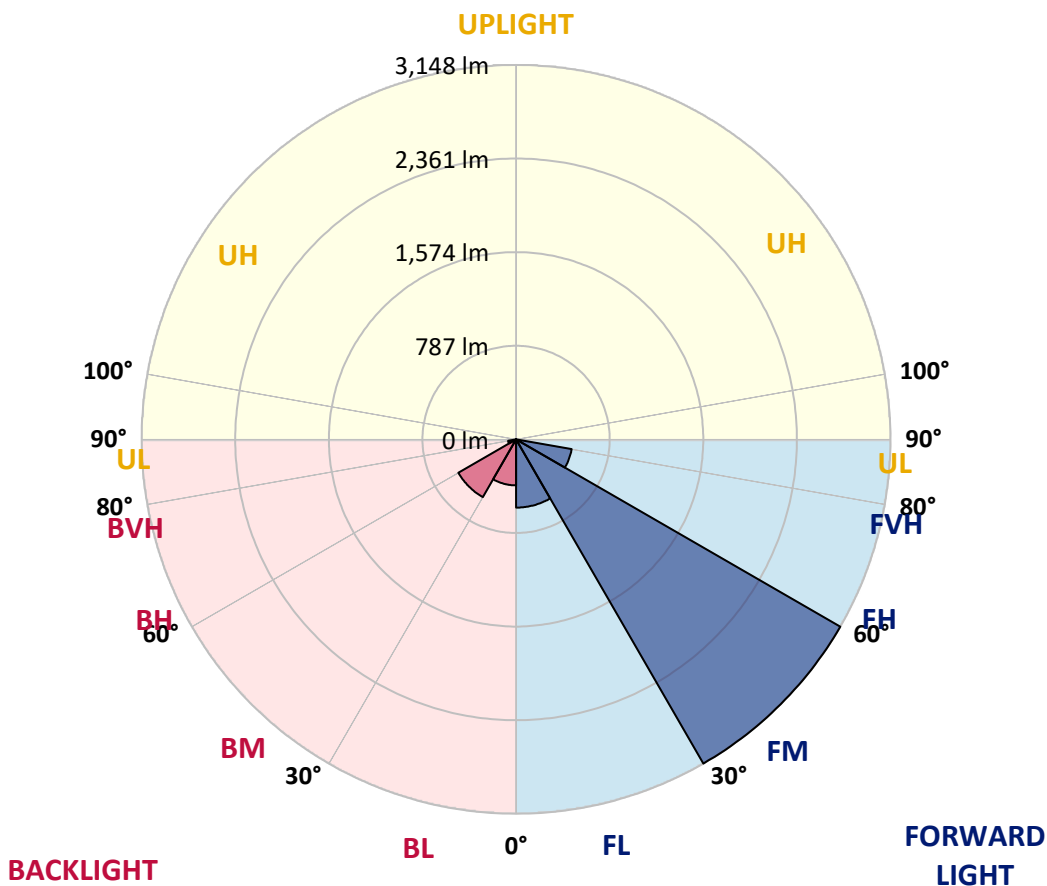
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.7	11.0			
FM (30°-60°)	3147.7	60.4			
FH (60°-80°)	474.3	9.1			G0/660
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	386.9	7.4	B1/500		
BM (30°-60°)	560.5	10.8	B1/1000		
BH (60°-80°)	67.6	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°	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8
2.5°	1164.0	1161.6	1166.4	1175.9	1184.9	1187.8	1196.8	1209.3	1217.0	1235.5	1250.4
5°	1111.6	1110.4	1115.2	1123.5	1135.4	1139.6	1153.3	1174.1	1195.0	1227.1	1258.7
7.5°	1063.9	1063.3	1070.5	1088.9	1106.2	1111.6	1128.3	1153.9	1181.9	1231.3	1277.8
10°	1001.4	1002.0	1015.7	1041.9	1073.5	1084.2	1111.0	1147.9	1184.3	1248.0	1312.3
12.5°	981.1	982.3	989.5	1009.7	1044.3	1058.0	1095.5	1151.5	1198.0	1271.8	1357.0
15°	1030.6	1030.6	1024.6	1027.0	1042.5	1055.0	1094.3	1163.4	1221.2	1300.4	1401.1
17.5°	1126.5	1122.9	1108.0	1087.8	1082.4	1086.6	1118.1	1189.0	1254.0	1333.8	1451.1
20°	1256.3	1257.5	1228.3	1186.0	1152.1	1151.5	1170.6	1234.3	1301.0	1373.7	1505.3
22.5°	1413.6	1408.8	1370.1	1312.3	1253.4	1248.6	1256.3	1303.4	1368.9	1436.8	1572.1
25°	1595.9	1593.5	1538.7	1461.3	1383.2	1371.9	1371.9	1418.4	1466.0	1526.8	1651.9
27.5°	1786.5	1786.5	1733.5	1644.1	1540.5	1520.2	1517.3	1572.1	1603.6	1615.5	1719.2
30°	1982.5	1980.1	1927.7	1836.0	1725.2	1704.3	1696.0	1736.5	1759.1	1723.4	1803.2
32.5°	2181.5	2185.6	2132.6	2047.4	1948.5	1934.8	1909.2	1909.2	1927.7	1877.7	1935.4
35°	2395.3	2394.1	2352.4	2294.6	2210.1	2194.6	2152.3	2086.1	2114.1	2092.1	2118.3
37.5°	2584.2	2593.1	2572.8	2529.9	2461.4	2446.0	2376.3	2256.5	2278.0	2312.5	2335.7
40°	2776.0	2783.1	2803.4	2789.7	2703.3	2674.7	2550.8	2354.2	2378.0	2496.6	2563.3
42.5°	2964.2	2967.8	3008.9	3031.5	2916.0	2865.9	2683.0	2413.8	2438.8	2640.7	2757.5
45°	3083.9	3091.7	3159.6	3228.7	3103.6	3035.1	2798.0	2490.0	2500.8	2740.8	2901.1
47.5°	3079.2	3097.1	3224.5	3350.2	3265.0	3191.2	2936.2	2612.2	2594.3	2834.9	2995.8
50°	2983.3	3004.7	3187.6	3387.2	3381.2	3312.7	3089.9	2789.1	2733.1	2918.3	3007.7
52.5°	2784.3	2846.3	3122.7	3391.9	3474.7	3440.2	3279.9	3027.4	2920.7	3038.1	3026.8
55°	2354.2	2430.5	2925.5	3351.4	3559.3	3563.5	3479.5	3275.8	3124.5	3244.2	3144.1
57.5°	1787.1	1847.9	2251.8	2983.3	3419.3	3487.8	3556.9	3406.8	3250.1	3384.8	3171.5
60°	1077.0	1147.3	1410.0	2189.2	2761.7	2878.4	3149.5	3120.3	2931.4	2989.2	2600.8
62.5°	436.6	473.6	651.1	1206.3	1738.3	1847.3	2107.0	2151.1	2104.6	2045.6	1577.4
65°	159.6	174.5	260.9	498.6	799.4	839.3	976.4	1054.4	1118.7	952.5	586.8
67.5°	98.9	108.4	169.8	256.2	290.7	270.4	275.2	328.2	313.3	193.6	104.8
70°	73.3	81.0	132.8	177.5	117.4	90.5	61.4	65.5	59.0	51.8	51.2
72.5°	50.6	57.8	99.5	104.8	45.3	32.2	22.6	31.6	35.7	35.1	36.3
75°	33.4	38.7	62.5	41.1	11.3	8.9	7.7	16.7	21.4	21.4	22.0
77.5°	19.7	22.6	22.0	8.3	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°	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8	1249.8
2.5°	1261.7	1257.5	1274.8	1287.3	1297.4	1302.2	1295.7	1295.1	1295.1	1281.9	1278.4
5°	1276.6	1278.4	1302.8	1313.5	1315.3	1309.4	1294.5	1284.3	1278.4	1264.7	1256.9
7.5°	1305.2	1311.1	1334.4	1332.6	1316.5	1289.1	1249.8	1219.4	1199.7	1178.3	1165.2
10°	1346.3	1357.6	1371.9	1346.9	1295.7	1226.0	1144.9	1087.2	1052.6	1028.2	1013.3
12.5°	1396.3	1407.6	1402.9	1343.9	1237.3	1112.8	1008.5	925.1	885.2	863.2	847.7
15°	1447.0	1454.1	1423.1	1308.2	1134.2	966.8	850.7	767.9	719.0	701.1	688.0
17.5°	1498.8	1497.0	1426.7	1237.9	996.6	802.4	688.0	631.4	617.7	614.8	613.6
20°	1553.0	1536.9	1412.4	1137.2	831.0	639.8	574.9	578.4	603.4	615.4	617.7
22.5°	1614.9	1574.4	1376.7	1000.8	661.8	533.2	539.7	574.9	608.8	624.9	627.3
25°	1681.1	1609.0	1317.1	825.6	521.8	490.3	529.0	569.5	605.8	625.5	627.9
27.5°	1724.6	1617.3	1219.4	649.3	448.0	473.6	514.7	553.4	590.9	612.4	615.4
30°	1771.6	1613.8	1086.6	500.4	422.9	459.3	495.0	530.2	564.7	588.6	590.9
32.5°	1840.7	1611.4	924.5	406.3	412.8	448.0	474.2	503.4	527.2	540.9	539.1
35°	1931.3	1608.4	735.7	366.4	406.9	439.0	459.9	473.6	447.4	439.0	440.8
37.5°	2047.4	1615.5	576.6	349.7	405.1	436.6	454.5	415.2	374.7	359.2	356.8
40°	2176.1	1634.0	439.6	343.1	411.0	442.6	434.3	369.3	319.3	288.9	282.4
42.5°	2305.4	1654.3	347.9	340.7	421.2	459.3	400.9	336.0	260.9	243.6	241.3
45°	2401.3	1650.7	300.8	336.6	430.1	468.8	392.0	288.3	232.9	225.2	225.8
47.5°	2449.5	1611.4	275.2	327.0	433.7	459.3	369.9	268.7	213.9	222.2	229.3
50°	2423.9	1509.5	251.4	308.6	425.9	446.8	334.8	253.8	204.3	238.9	255.0
52.5°	2392.9	1384.4	225.2	280.0	407.5	429.5	321.1	249.6	198.4	230.5	242.5
55°	2434.0	1305.2	182.3	235.9	371.1	389.0	310.4	249.0	184.7	179.3	177.5
57.5°	2376.3	1147.3	130.5	169.8	284.7	308.0	302.6	244.8	163.8	163.2	165.6
60°	1836.5	699.9	89.4	107.8	174.5	196.6	274.6	234.1	141.2	129.9	130.5
62.5°	1043.7	297.9	61.4	66.7	89.4	106.0	209.7	212.7	130.5	123.9	130.5
65°	363.4	106.6	47.7	44.7	49.4	56.6	120.3	164.4	118.5	107.2	108.4
67.5°	75.1	53.0	42.3	36.9	36.9	36.9	61.4	102.5	97.7	85.2	86.4
70°	47.7	45.3	36.9	31.6	30.4	28.0	35.1	56.6	67.3	62.0	62.5
72.5°	35.1	34.6	29.2	25.6	22.6	20.3	22.0	28.0	34.6	35.7	36.3
75°	21.4	22.0	19.1	16.1	14.3	12.5	13.1	13.1	13.1	11.9	13.1
77.5°	6.6	7.1	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)