

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: P630159

Luminaire Tested: GWS-SA1D-727-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-727-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4252.6 lumens
Efficiency: N/A
Efficacy: 96.0 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

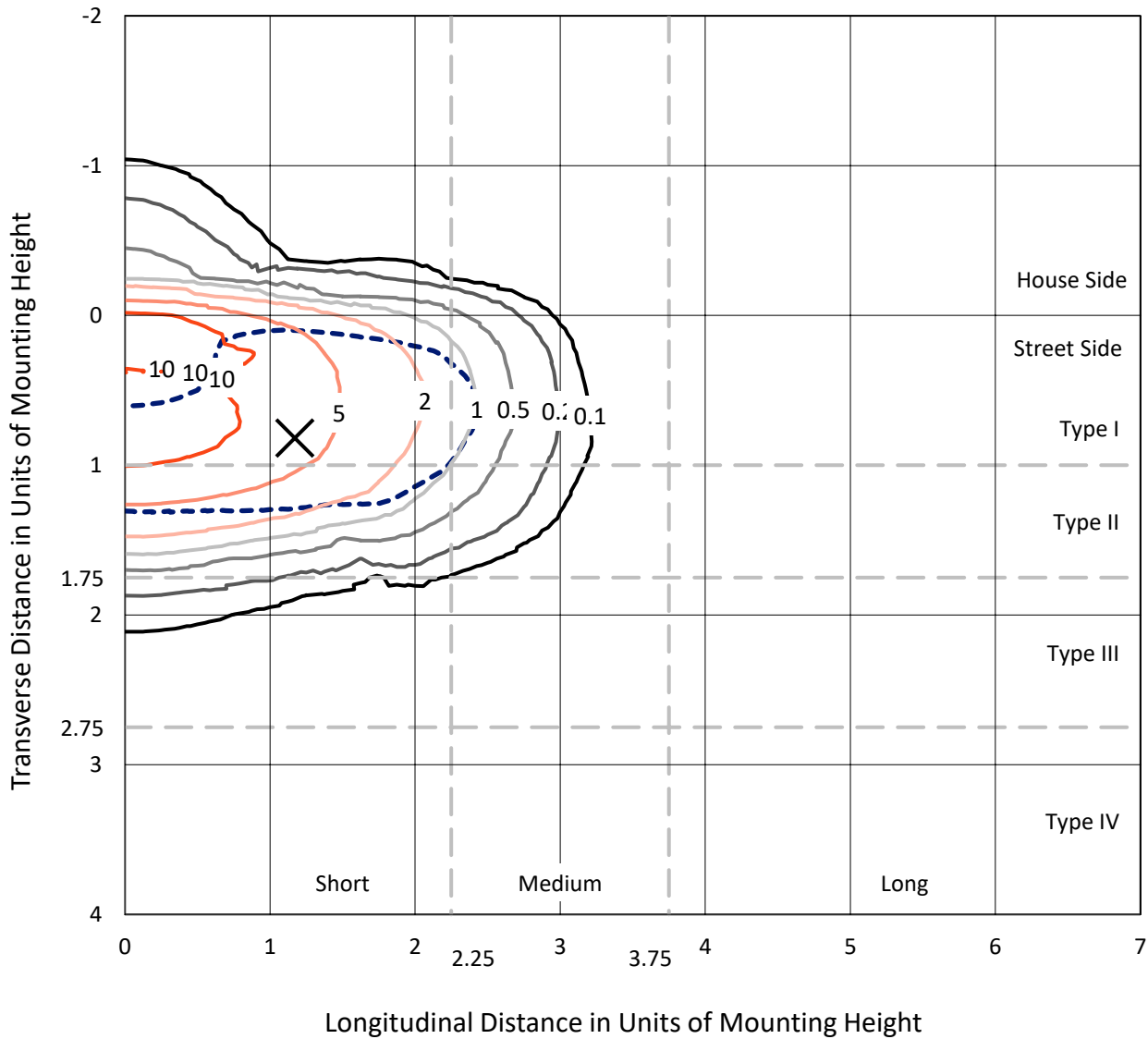
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

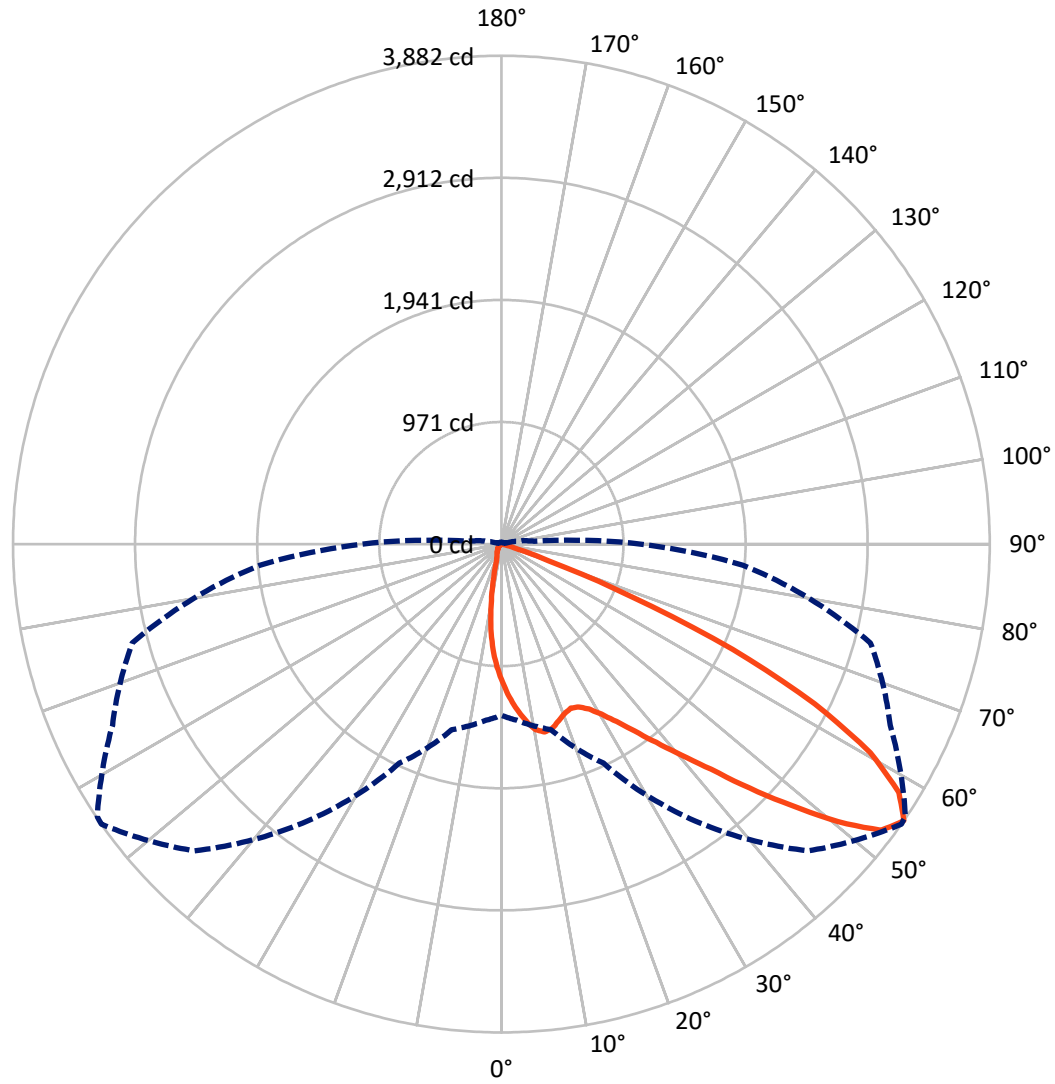
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	262.4	0.0	262.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3990.2	0.0	3990.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	4252.6	0.0	4252.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	2.3
10°-20°	234.1	5.5
20°-30°	389.8	9.2
30°-40°	664.3	15.6
40°-50°	1084.4	25.5
50°-60°	1135.3	26.7
60°-70°	572.6	13.5
70°-80°	72.3	1.7
80°-90°	2.7	0.1
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°	4252.6	100.0
0°-180°	4252.6	100.0

Coefficient of Utilization

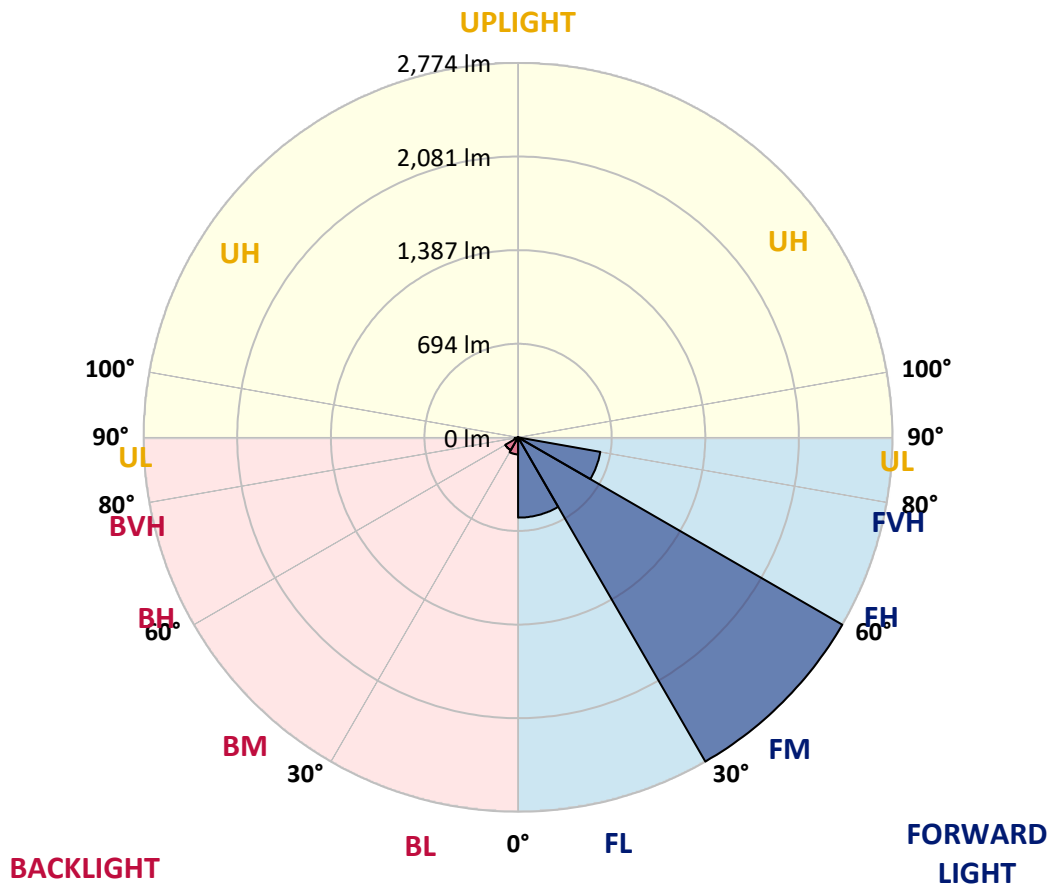


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.9	14.0			
FM (30°-60°)	2774.2	65.2			
FH (60°-80°)	618.6	14.5			G0/660
FVH (80°-90°)	2.5	0.1			G0/10
BL (0°-30°)	126.1	3.0	B1/500		
BM (30°-60°)	109.7	2.6	B0/220		
BH (60°-80°)	26.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.2	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°	55°	56°	65°	75°	85°
0°	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6
2.5°	1280.8	1274.6	1284.0	1273.1	1254.6	1238.9	1218.6	1211.3	1178.6	1147.7	1117.9
5°	1436.4	1438.2	1435.3	1420.0	1393.8	1364.7	1323.7	1314.6	1257.5	1198.6	1135.0
7.5°	1474.9	1473.8	1480.0	1485.8	1481.4	1466.9	1422.2	1413.1	1342.2	1253.9	1161.2
10°	1356.0	1356.7	1369.5	1408.7	1457.4	1508.0	1501.1	1496.0	1426.5	1316.4	1190.2
12.5°	1188.1	1194.6	1208.0	1264.0	1346.6	1461.4	1532.7	1537.8	1504.0	1385.1	1224.4
15°	1115.3	1116.8	1127.7	1161.5	1223.0	1364.7	1519.2	1533.4	1568.7	1454.2	1261.5
17.5°	1113.5	1115.3	1120.1	1135.0	1175.0	1288.8	1476.0	1500.7	1617.4	1528.3	1305.8
20°	1181.9	1180.8	1177.5	1169.5	1187.0	1263.7	1436.0	1463.3	1643.9	1600.7	1350.6
22.5°	1305.8	1304.4	1289.8	1256.8	1242.6	1286.6	1416.4	1441.1	1659.9	1665.0	1387.3
25°	1448.7	1458.9	1431.6	1381.5	1346.6	1345.1	1433.8	1451.3	1673.7	1722.1	1412.4
27.5°	1605.4	1608.7	1585.4	1529.1	1478.5	1438.9	1484.3	1497.4	1689.0	1773.0	1426.5
30°	1777.4	1776.3	1749.7	1684.3	1622.8	1565.8	1569.4	1574.5	1724.6	1831.2	1442.2
32.5°	1992.2	1996.9	1949.7	1860.6	1786.8	1707.9	1680.7	1681.4	1789.0	1906.0	1465.8
35°	2284.1	2272.5	2210.0	2083.1	1957.3	1872.2	1825.7	1821.7	1888.2	2006.7	1506.9
37.5°	2562.2	2563.3	2497.9	2358.3	2199.4	2065.3	1999.5	1988.6	2027.8	2146.3	1575.2
40°	2755.3	2758.9	2731.7	2658.6	2490.3	2300.5	2203.8	2192.5	2208.9	2323.0	1664.7
42.5°	2857.4	2867.6	2875.3	2892.3	2764.7	2594.2	2445.5	2444.5	2427.4	2524.4	1768.3
45°	2861.4	2876.7	2923.2	3039.9	3054.5	2929.4	2767.6	2743.3	2677.5	2740.0	1861.0
47.5°	2703.3	2738.6	2837.4	3068.7	3221.3	3262.8	3102.5	3087.6	2902.9	2910.5	1930.4
50°	2334.7	2371.4	2553.5	2921.4	3263.5	3527.4	3470.0	3439.1	3091.2	3023.2	1963.9
52.5°	1956.6	1990.0	2113.6	2571.0	3088.6	3610.7	3779.7	3743.0	3260.2	3062.5	1950.0
55°	1361.5	1406.2	1526.9	1921.7	2685.8	3448.6	3882.3	3874.6	3411.1	3037.8	1928.6
57.5°	667.5	711.8	832.1	1184.8	1989.7	3010.9	3725.6	3765.9	3501.3	3011.2	1911.1
60°	278.8	297.0	338.5	519.9	1113.2	2275.4	3371.8	3427.8	3446.0	2975.2	1909.3
62.5°	161.8	164.7	169.0	215.6	433.0	1304.4	2797.1	2876.7	3155.5	2927.6	1880.6
65°	122.1	123.2	121.4	132.3	178.9	494.8	2020.9	2129.3	2633.9	2741.5	1767.2
67.5°	100.3	100.3	95.6	97.8	112.3	185.4	1115.7	1266.9	1948.9	2253.2	1459.3
70°	80.0	81.8	79.6	76.7	80.3	102.5	397.0	492.2	1135.0	1330.6	851.1
72.5°	60.7	60.7	64.3	62.2	59.6	64.3	138.5	155.6	455.5	554.8	307.2
75°	46.9	48.4	50.9	48.7	45.1	38.2	66.5	70.5	137.4	129.1	68.7
77.5°	24.0	24.4	32.4	35.6	33.4	23.3	29.1	32.0	44.7	40.0	25.4
80°	14.5	15.3	18.2	28.0	22.2	12.4	12.0	12.7	21.1	18.2	10.5
82.5°	6.2	6.5	10.2	10.2	9.1	4.7	4.7	4.7	10.2	9.5	4.4
85°	0.0	0.0	1.8	1.5	1.5	1.8	1.8	1.8	2.5	3.6	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	1.1
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°	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6	1098.6
2.5°	1098.6	1075.4	1044.1	1015.7	977.6	956.1	926.3	901.9	881.2	874.7	871.8
5°	1099.0	1059.0	992.1	925.2	843.1	778.3	711.8	659.1	615.8	602.0	598.4
7.5°	1106.3	1047.4	939.0	817.6	680.2	566.8	465.3	374.4	332.3	318.1	315.2
10°	1116.1	1037.5	877.6	688.5	491.1	345.4	244.7	186.5	158.9	143.6	145.8
12.5°	1128.8	1029.5	809.6	548.9	325.0	189.8	134.5	112.7	106.9	104.0	102.5
15°	1145.9	1020.1	725.3	410.4	199.2	122.1	103.6	97.8	95.6	94.2	93.8
17.5°	1163.3	1009.2	639.5	288.7	132.3	101.4	93.1	90.2	88.7	87.6	87.2
20°	1181.9	990.7	538.8	198.9	104.3	91.2	85.8	82.5	80.7	78.9	78.5
22.5°	1189.9	960.8	442.4	139.2	92.7	84.0	77.1	73.1	70.9	69.4	69.4
25°	1182.2	912.5	342.8	105.8	84.3	76.0	69.1	64.7	62.9	61.4	61.4
27.5°	1161.9	850.3	250.1	87.6	75.3	67.6	61.1	57.1	55.6	54.9	54.9
30°	1139.3	771.8	176.3	75.3	65.1	58.9	53.4	50.9	50.5	49.8	49.8
32.5°	1120.1	698.4	121.4	66.2	57.4	51.3	47.6	46.5	46.9	46.2	46.5
35°	1109.5	626.4	90.2	58.9	51.3	45.4	43.6	43.6	43.6	43.3	43.3
37.5°	1113.9	555.5	73.4	53.8	45.8	41.4	39.6	40.4	41.1	41.1	41.1
40°	1135.7	492.6	65.1	49.1	41.1	37.8	36.4	37.4	38.5	39.3	39.3
42.5°	1163.3	441.7	58.9	45.1	37.8	34.2	33.4	34.5	35.6	36.4	36.4
45°	1180.8	390.4	52.7	40.0	34.5	30.2	30.2	31.6	31.3	31.6	31.6
47.5°	1188.8	349.7	46.5	34.5	29.4	26.2	26.5	27.3	26.5	27.3	27.3
50°	1169.1	308.6	41.1	28.7	24.4	22.9	23.6	23.3	23.3	24.7	24.7
52.5°	1133.2	278.1	36.4	24.4	20.7	20.4	21.1	19.6	20.0	20.0	19.6
55°	1106.6	260.7	32.4	21.1	17.8	18.2	17.8	15.3	13.8	12.4	12.0
57.5°	1093.5	253.8	29.4	18.9	16.0	16.0	14.5	10.5	8.0	6.2	5.5
60°	1090.6	245.4	26.5	16.4	14.2	13.5	10.5	6.2	4.0	2.9	2.5
62.5°	1063.0	225.0	24.0	13.1	12.4	10.9	6.5	3.6	2.2	1.5	1.1
65°	972.5	185.0	21.4	10.2	9.5	8.0	4.0	2.2	1.1	0.4	0.0
67.5°	773.6	131.2	18.9	7.6	6.5	5.1	2.5	1.5	0.4	0.0	0.0
70°	446.1	70.9	15.6	5.5	4.4	3.3	1.8	0.7	0.0	0.0	0.0
72.5°	149.1	33.1	12.0	3.6	3.3	2.5	1.1	0.4	0.0	0.0	0.0
75°	32.7	19.6	8.0	2.5	2.2	1.8	0.7	0.0	0.0	0.0	0.0
77.5°	12.4	13.8	4.0	1.8	1.5	1.1	0.4	0.0	0.0	0.0	0.0
80°	4.7	9.1	1.8	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	3.6	1.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.5	1.8	0.7	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.4	0.4	0.4	0.0	0.0	0.0	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)