

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: P630104

Luminaire Tested: GWS-SA1D-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630104
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3745.6 lumens
Efficiency: N/A
Efficacy: 84.6 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

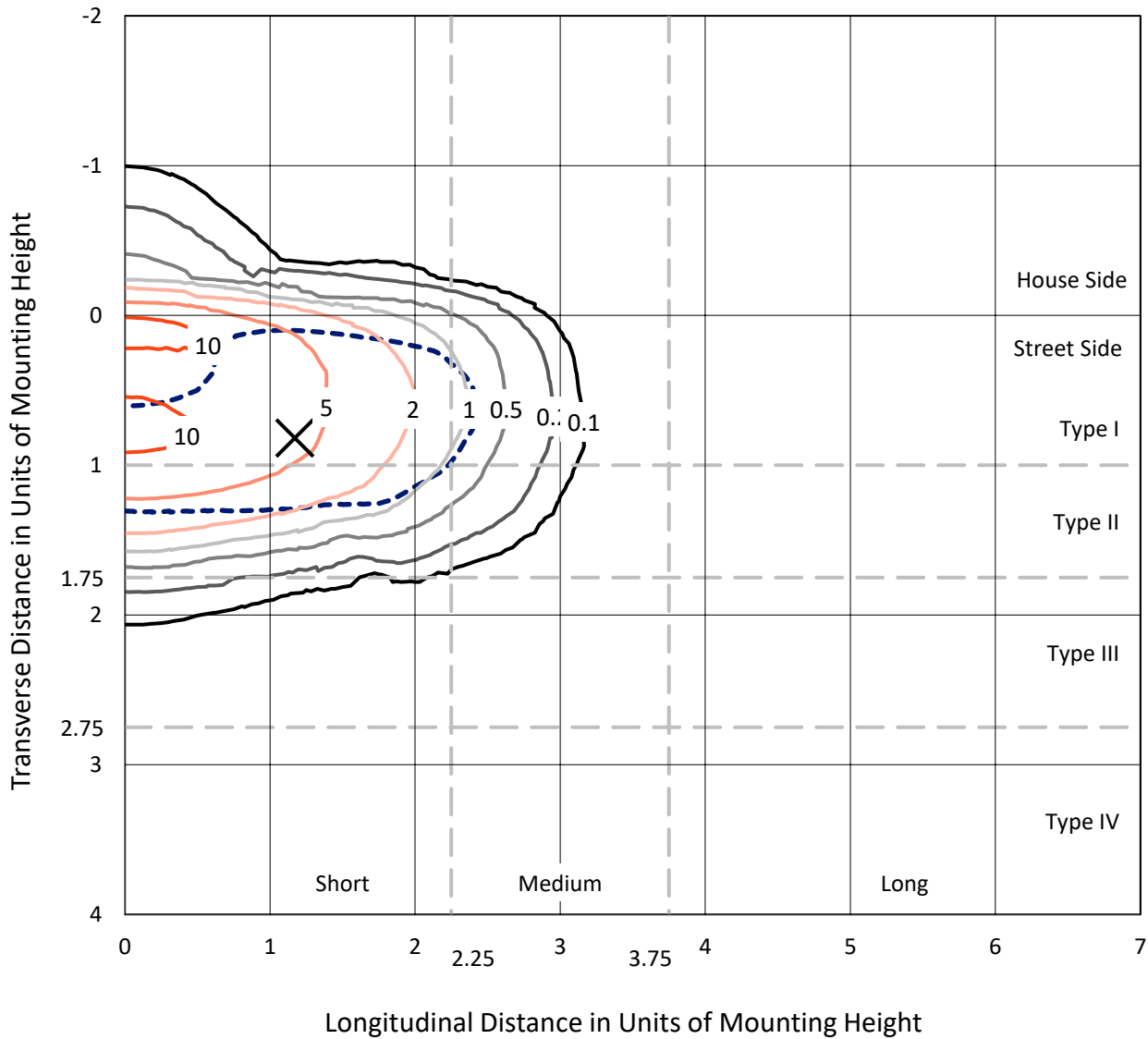
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA1D-722-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

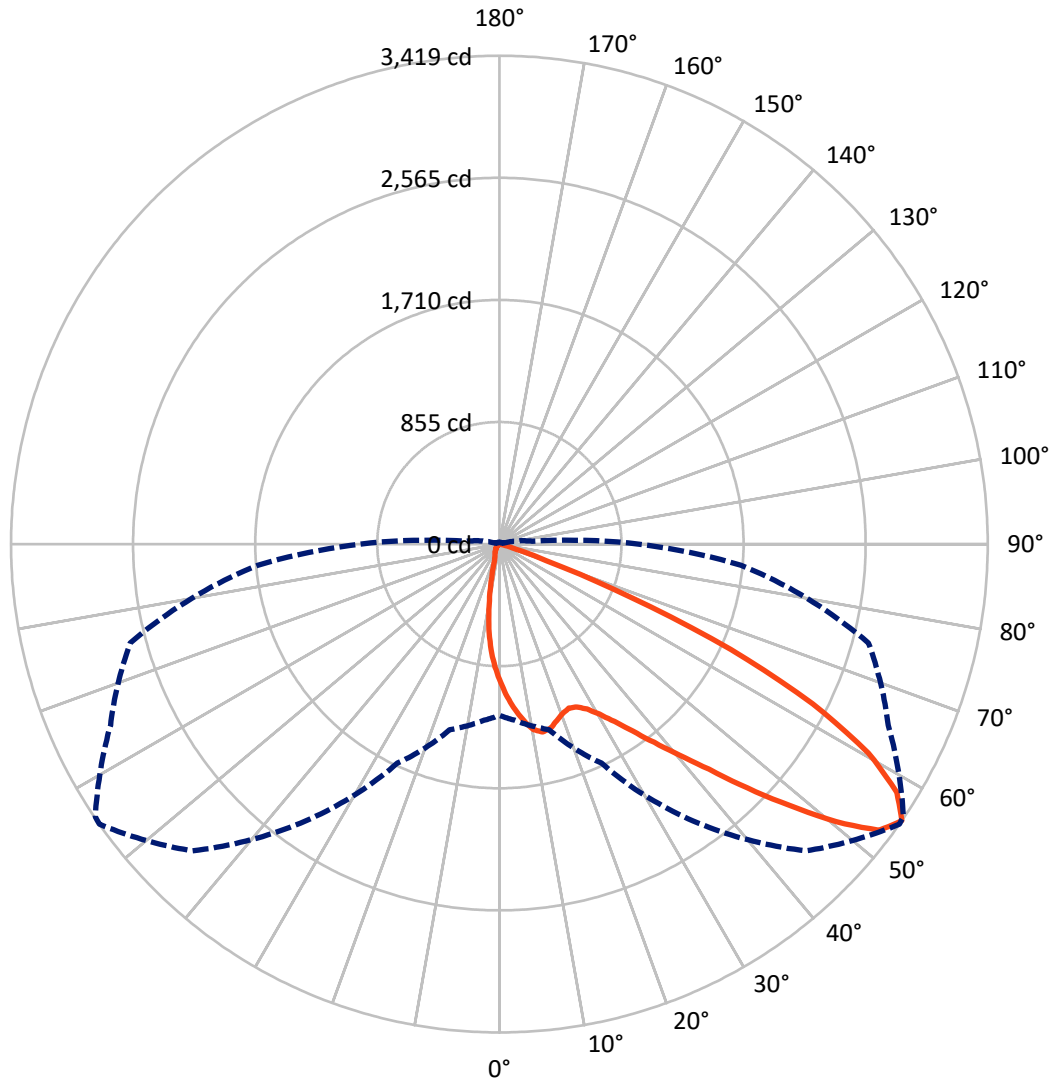
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

REPORT NUMBER: P630104
CATALOG NUMBER: GWS-SA1D-722-U-AFL-W-HSS

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	231.1	0.0	231.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3514.5	0.0	3514.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	3745.6	0.0	3745.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	2.3
10°-20°	206.2	5.5
20°-30°	343.4	9.2
30°-40°	585.1	15.6
40°-50°	955.1	25.5
50°-60°	999.9	26.7
60°-70°	504.3	13.5
70°-80°	63.7	1.7
80°-90°	2.4	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°	3745.6	100.0
0°-180°	3745.6	100.0

Coefficient of Utilization



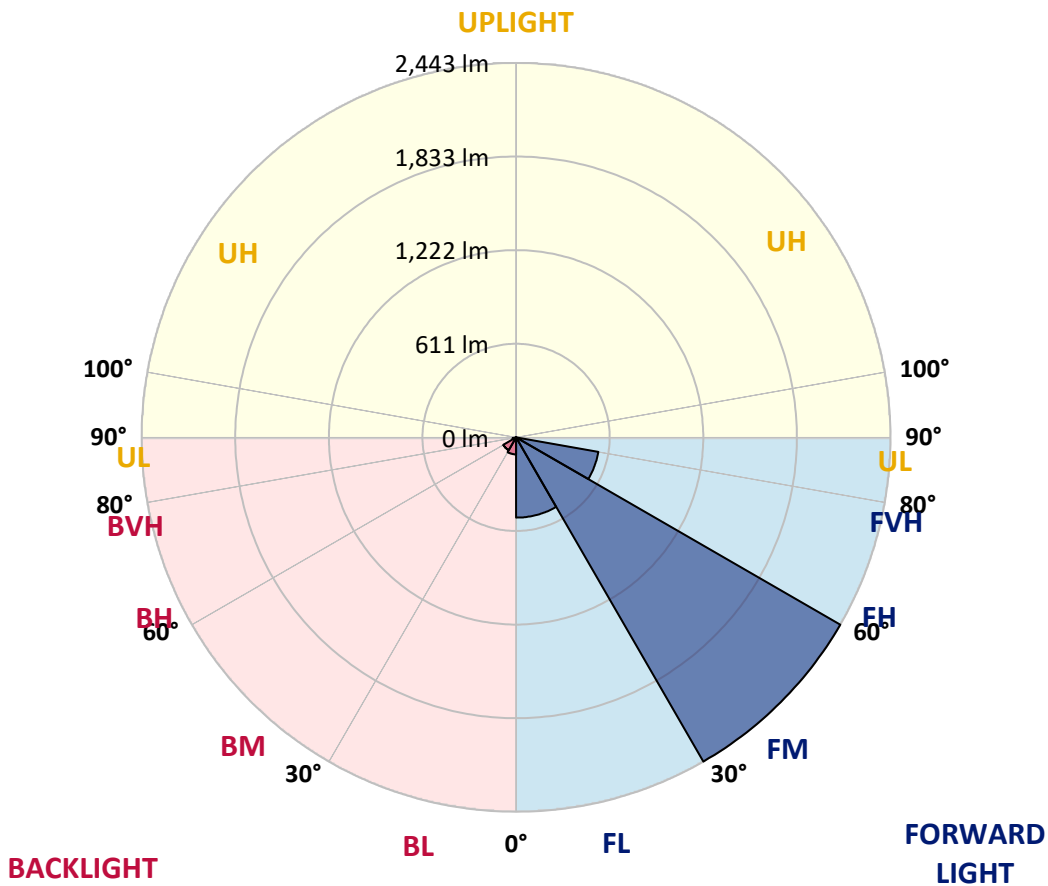
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.0	14.0			
FM (30°-60°)	2443.5	65.2			
FH (60°-80°)	544.9	14.5			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	111.1	3.0	B1/500		
BM (30°-60°)	96.6	2.6	B0/220		
BH (60°-80°)	23.2	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





REPORT NUMBER: P630104

CATALOG NUMBER: GWS-SA1D-722-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6
2.5°	1128.1	1122.6	1130.9	1121.3	1105.0	1091.2	1073.3	1066.9	1038.1	1010.9	984.6
5°	1265.1	1266.7	1264.1	1250.7	1227.6	1202.0	1165.8	1157.8	1107.6	1055.7	999.7
7.5°	1299.1	1298.1	1303.5	1308.7	1304.8	1292.0	1252.6	1244.6	1182.2	1104.4	1022.7
10°	1194.3	1195.0	1206.2	1240.8	1283.7	1328.2	1322.1	1317.6	1256.5	1159.4	1048.3
12.5°	1046.4	1052.2	1064.0	1113.3	1186.0	1287.2	1350.0	1354.4	1324.7	1220.0	1078.4
15°	982.4	983.7	993.3	1023.0	1077.2	1202.0	1338.1	1350.6	1381.7	1280.8	1111.1
17.5°	980.8	982.4	986.5	999.7	1034.9	1135.1	1300.0	1321.8	1424.6	1346.1	1150.2
20°	1041.0	1040.0	1037.1	1030.1	1045.5	1113.0	1264.8	1288.8	1447.9	1409.8	1189.5
22.5°	1150.2	1148.9	1136.1	1106.9	1094.4	1133.2	1247.5	1269.3	1462.0	1466.5	1221.9
25°	1276.0	1285.0	1260.9	1216.8	1186.0	1184.7	1262.9	1278.2	1474.2	1516.8	1244.0
27.5°	1414.0	1416.9	1396.4	1346.8	1302.3	1267.4	1307.4	1318.9	1487.6	1561.6	1256.5
30°	1565.5	1564.5	1541.1	1483.5	1429.4	1379.1	1382.3	1386.8	1519.0	1612.8	1270.2
32.5°	1754.7	1758.9	1717.2	1638.8	1573.8	1504.3	1480.3	1480.9	1575.7	1678.8	1291.0
35°	2011.8	2001.6	1946.5	1834.7	1724.0	1649.0	1608.0	1604.5	1663.1	1767.5	1327.2
37.5°	2256.8	2257.7	2200.1	2077.1	1937.2	1819.1	1761.1	1751.5	1786.1	1890.5	1387.4
40°	2426.8	2430.0	2406.0	2341.6	2193.4	2026.2	1941.1	1931.1	1945.5	2046.1	1466.2
42.5°	2516.8	2525.7	2532.5	2547.5	2435.1	2284.9	2154.0	2153.0	2138.0	2223.5	1557.5
45°	2520.3	2533.7	2574.7	2677.5	2690.3	2580.2	2437.7	2416.2	2358.3	2413.3	1639.1
47.5°	2381.0	2412.1	2499.2	2702.8	2837.3	2873.8	2732.6	2719.5	2556.8	2563.5	1700.3
50°	2056.3	2088.7	2249.1	2573.1	2874.4	3106.9	3056.3	3029.1	2722.7	2662.8	1729.7
52.5°	1723.3	1752.8	1861.6	2264.5	2720.4	3180.2	3329.1	3296.8	2871.6	2697.4	1717.6
55°	1199.1	1238.5	1344.8	1692.6	2365.6	3037.4	3419.4	3412.7	3004.4	2675.6	1698.7
57.5°	587.9	627.0	732.9	1043.5	1752.5	2651.9	3281.4	3316.9	3083.8	2652.2	1683.3
60°	245.6	261.6	298.1	457.9	980.5	2004.1	2969.9	3019.2	3035.2	2620.5	1681.7
62.5°	142.5	145.1	148.9	189.9	381.4	1148.9	2463.6	2533.7	2779.3	2578.6	1656.4
65°	107.6	108.5	106.9	116.6	157.5	435.8	1780.0	1875.4	2319.8	2414.6	1556.5
67.5°	88.4	88.4	84.2	86.1	98.9	163.3	982.7	1115.9	1716.6	1984.6	1285.3
70°	70.4	72.0	70.1	67.6	70.8	90.3	349.7	433.6	999.7	1171.9	749.6
72.5°	53.5	53.5	56.7	54.8	52.5	56.7	122.0	137.0	401.2	488.6	270.6
75°	41.3	42.6	44.8	42.9	39.7	33.6	58.6	62.1	121.0	113.7	60.5
77.5°	21.1	21.5	28.5	31.4	29.5	20.5	25.6	28.2	39.4	35.2	22.4
80°	12.8	13.4	16.0	24.7	19.5	10.9	10.6	11.2	18.6	16.0	9.3
82.5°	5.4	5.8	9.0	9.0	8.0	4.2	4.2	4.2	9.0	8.3	3.8
85°	0.0	0.0	1.6	1.3	1.3	1.6	1.6	1.6	2.2	3.2	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P630104

CATALOG NUMBER: GWS-SA1D-722-U-AFL-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6
2.5°	967.6	947.2	919.6	894.6	861.0	842.1	815.9	794.4	776.2	770.4	767.8
5°	968.0	932.7	873.8	814.9	742.5	685.5	627.0	580.5	542.4	530.3	527.0
7.5°	974.4	922.5	827.1	720.1	599.1	499.2	409.9	329.8	292.7	280.2	277.6
10°	983.0	913.9	773.0	606.5	432.6	304.2	215.5	164.3	139.9	126.5	128.4
12.5°	994.2	906.8	713.1	483.5	286.3	167.1	118.5	99.3	94.1	91.6	90.3
15°	1009.3	898.5	638.8	361.5	175.5	107.6	91.3	86.1	84.2	82.9	82.6
17.5°	1024.6	888.9	563.2	254.2	116.6	89.3	82.0	79.4	78.1	77.2	76.8
20°	1041.0	872.5	474.5	175.1	91.9	80.4	75.6	72.7	71.1	69.5	69.2
22.5°	1048.0	846.3	389.7	122.6	81.7	74.0	67.9	64.4	62.4	61.2	61.2
25°	1041.3	803.7	301.9	93.2	74.3	66.9	60.8	57.0	55.4	54.1	54.1
27.5°	1023.4	748.9	220.3	77.2	66.3	59.6	53.8	50.3	49.0	48.4	48.4
30°	1003.5	679.8	155.3	66.3	57.3	51.9	47.1	44.8	44.5	43.9	43.9
32.5°	986.5	615.1	106.9	58.3	50.6	45.1	41.9	41.0	41.3	40.7	41.0
35°	977.2	551.7	79.4	51.9	45.1	40.0	38.4	38.4	38.4	38.1	38.1
37.5°	981.1	489.3	64.7	47.4	40.3	36.5	34.9	35.5	36.2	36.2	36.2
40°	1000.3	433.9	57.3	43.2	36.2	33.3	32.0	33.0	33.9	34.6	34.6
42.5°	1024.6	389.0	51.9	39.7	33.3	30.1	29.5	30.4	31.4	32.0	32.0
45°	1040.0	343.9	46.4	35.2	30.4	26.6	26.6	27.9	27.5	27.9	27.9
47.5°	1047.1	308.0	41.0	30.4	25.9	23.1	23.4	24.0	23.4	24.0	24.0
50°	1029.8	271.8	36.2	25.3	21.5	20.2	20.8	20.5	20.5	21.8	21.8
52.5°	998.1	245.0	32.0	21.5	18.3	17.9	18.6	17.3	17.6	17.6	17.3
55°	974.7	229.6	28.5	18.6	15.7	16.0	15.7	13.4	12.2	10.9	10.6
57.5°	963.2	223.5	25.9	16.7	14.1	14.1	12.8	9.3	7.0	5.4	4.8
60°	960.6	216.1	23.4	14.4	12.5	11.8	9.3	5.4	3.5	2.6	2.2
62.5°	936.3	198.2	21.1	11.5	10.9	9.6	5.8	3.2	1.9	1.3	1.0
65°	856.5	163.0	18.9	9.0	8.3	7.0	3.5	1.9	1.0	0.3	0.0
67.5°	681.4	115.6	16.7	6.7	5.8	4.5	2.2	1.3	0.3	0.0	0.0
70°	392.9	62.4	13.8	4.8	3.8	2.9	1.6	0.6	0.0	0.0	0.0
72.5°	131.3	29.1	10.6	3.2	2.9	2.2	1.0	0.3	0.0	0.0	0.0
75°	28.8	17.3	7.0	2.2	1.9	1.6	0.6	0.0	0.0	0.0	0.0
77.5°	10.9	12.2	3.5	1.6	1.3	1.0	0.3	0.0	0.0	0.0	0.0
80°	4.2	8.0	1.6	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	3.2	1.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.3	1.6	0.6	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.3	0.3	0.3	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)