

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: P631149

Luminaire Tested: GWS-SA1F-727-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631149
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-SA1F-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: 5908.5 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

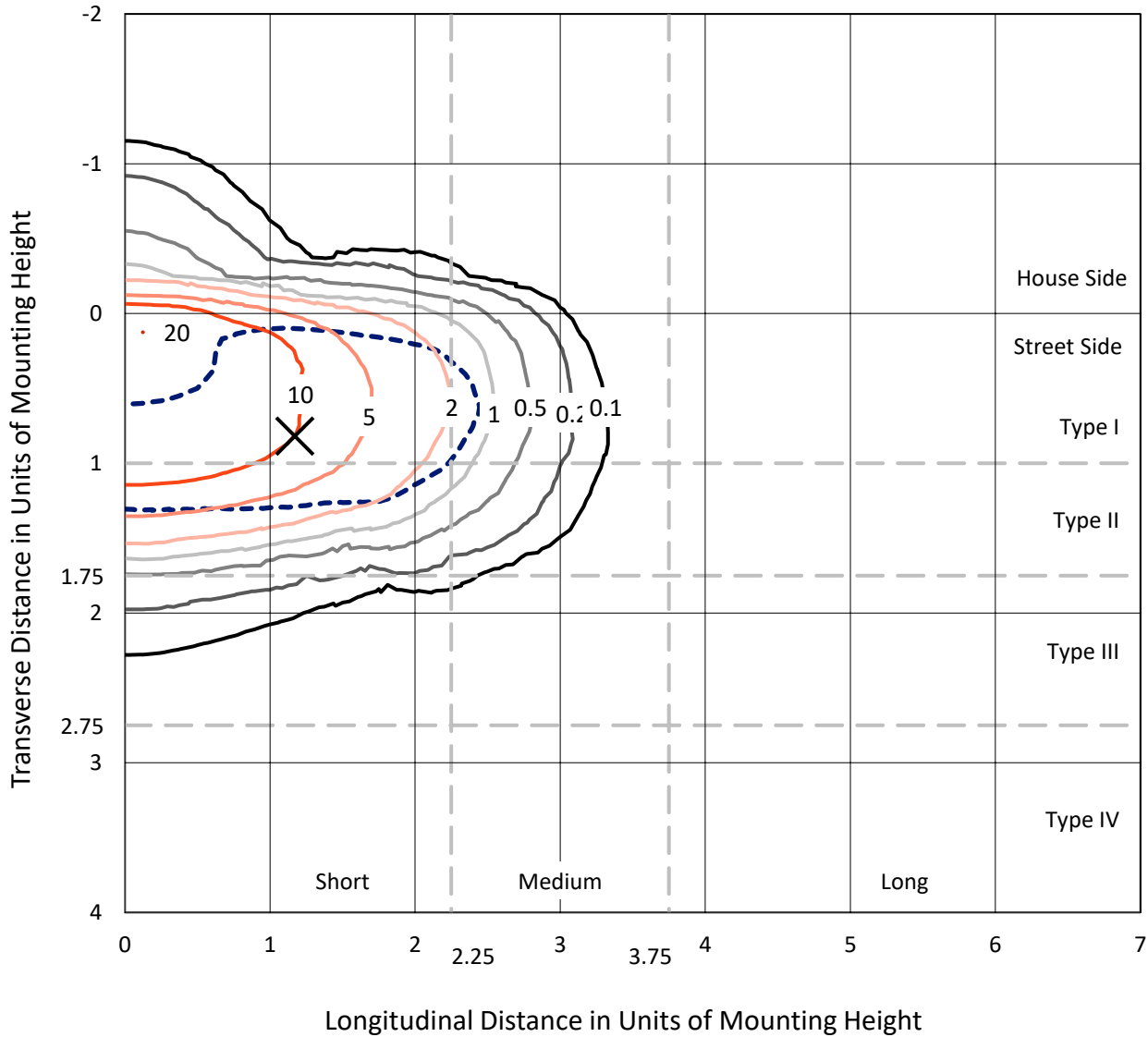
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

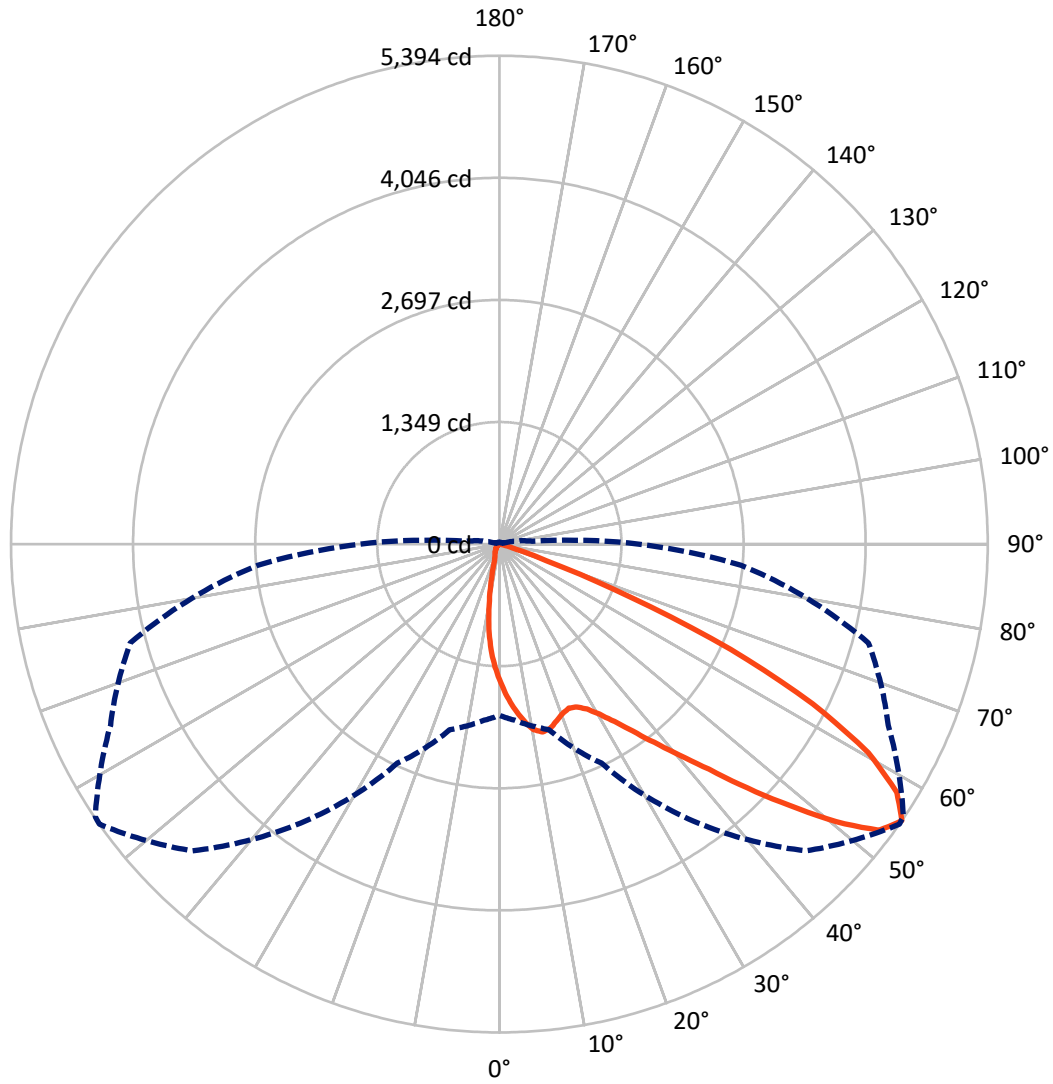
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 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	364.6	0.0	364.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	5543.9	0.0	5543.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	5908.5	0.0	5908.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	2.3
10°-20°	325.2	5.5
20°-30°	541.6	9.2
30°-40°	923.0	15.6
40°-50°	1506.6	25.5
50°-60°	1577.3	26.7
60°-70°	795.6	13.5
70°-80°	100.5	1.7
80°-90°	3.8	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°	5908.5	100.0
0°-180°	5908.5	100.0

Coefficient of Utilization



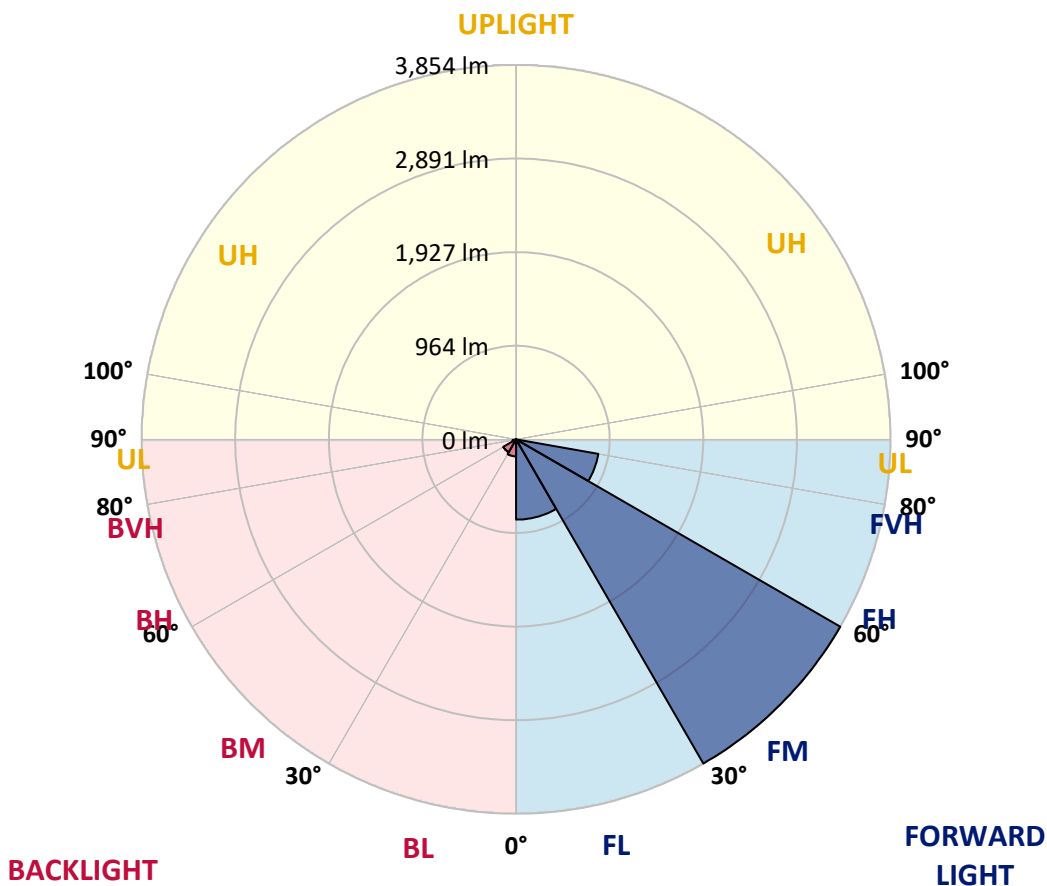
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.5	14.0			
FM (30°-60°)	3854.4	65.2			
FH (60°-80°)	859.5	14.5			G1/1800
FVH (80°-90°)	3.5	0.1			G0/10
BL (0°-30°)	175.2	3.0	B1/500		
BM (30°-60°)	152.4	2.6	B0/220		
BH (60°-80°)	36.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4
2.5°	1779.5	1770.9	1784.0	1768.9	1743.1	1721.4	1693.1	1683.0	1637.5	1594.6	1553.2
5°	1995.6	1998.2	1994.1	1972.9	1936.6	1896.1	1839.1	1826.4	1747.1	1665.3	1576.9
7.5°	2049.2	2047.7	2056.3	2064.3	2058.3	2038.1	1975.9	1963.3	1864.8	1742.1	1613.3
10°	1884.0	1885.0	1902.7	1957.3	2024.9	2095.2	2085.6	2078.5	1982.0	1829.0	1653.7
12.5°	1650.7	1659.8	1678.4	1756.2	1870.9	2030.5	2129.5	2136.6	2089.6	1924.4	1701.2
15°	1549.6	1551.7	1566.8	1613.8	1699.2	1896.1	2110.8	2130.5	2179.5	2020.4	1752.7
17.5°	1547.1	1549.6	1556.2	1576.9	1632.5	1790.6	2050.7	2085.1	2247.2	2123.4	1814.3
20°	1642.1	1640.6	1636.0	1624.9	1649.1	1755.7	1995.1	2033.0	2284.1	2224.0	1876.4
22.5°	1814.3	1812.3	1792.1	1746.1	1726.4	1787.5	1967.9	2002.2	2306.3	2313.4	1927.5
25°	2012.8	2027.0	1989.1	1919.4	1870.9	1868.9	1992.1	2016.4	2325.5	2392.7	1962.3
27.5°	2230.5	2235.1	2202.7	2124.4	2054.2	1999.2	2062.3	2080.5	2346.7	2463.4	1982.0
30°	2469.4	2467.9	2431.0	2340.1	2254.8	2175.5	2180.5	2187.6	2396.2	2544.2	2003.7
32.5°	2767.9	2774.5	2708.8	2585.1	2482.6	2373.0	2335.1	2336.1	2485.6	2648.2	2036.6
35°	3173.5	3157.4	3070.5	2894.2	2719.5	2601.3	2536.6	2531.1	2623.5	2788.1	2093.6
37.5°	3559.9	3561.5	3470.5	3276.6	3055.9	2869.5	2778.0	2762.9	2817.4	2982.1	2188.6
40°	3828.1	3833.2	3795.3	3693.8	3459.9	3196.3	3061.9	3046.3	3069.0	3227.6	2312.9
42.5°	3970.1	3984.2	3994.8	4018.6	3841.3	3604.4	3397.8	3396.3	3372.5	3507.4	2456.8
45°	3975.6	3996.9	4061.5	4223.6	4243.8	4070.1	3845.3	3811.5	3720.1	3806.9	2585.6
47.5°	3755.9	3804.9	3942.3	4263.5	4475.7	4533.3	4310.5	4289.8	4033.2	4043.8	2682.1
50°	3243.7	3294.8	3547.8	4059.0	4534.3	4901.0	4821.2	4778.2	4294.9	4200.4	2728.5
52.5°	2718.4	2764.9	2936.6	3572.1	4291.3	5016.6	5251.5	5200.5	4529.7	4255.0	2709.4
55°	1891.6	1953.7	2121.4	2670.0	3731.7	4791.4	5394.0	5383.3	4739.3	4220.6	2679.6
57.5°	927.4	989.0	1156.2	1646.1	2764.4	4183.2	5176.3	5232.3	4864.6	4183.7	2655.3
60°	387.4	412.7	470.2	722.3	1546.6	3161.4	4684.8	4762.6	4787.8	4133.7	2652.8
62.5°	224.8	228.8	234.9	299.5	601.6	1812.3	3886.2	3996.9	4384.3	4067.6	2612.9
65°	169.7	171.2	168.7	183.9	248.5	687.4	2807.8	2958.4	3659.4	3809.0	2455.3
67.5°	139.4	139.4	132.8	135.9	156.1	257.6	1550.2	1760.3	2707.8	3130.6	2027.5
70°	111.1	113.6	110.6	106.6	111.6	142.4	551.6	683.9	1576.9	1848.7	1182.4
72.5°	84.4	84.4	89.4	86.4	82.8	89.4	192.4	216.2	632.9	770.8	426.8
75°	65.2	67.2	70.7	67.7	62.6	53.0	92.4	98.0	190.9	179.3	95.5
77.5°	33.3	33.8	45.0	49.5	46.5	32.3	40.4	44.4	62.1	55.6	35.4
80°	20.2	21.2	25.3	38.9	30.8	17.2	16.7	17.7	29.3	25.3	14.6
82.5°	8.6	9.1	14.1	14.1	12.6	6.6	6.6	6.6	14.1	13.1	6.1
85°	0.0	0.0	2.5	2.0	2.0	2.5	2.5	2.5	3.5	5.1	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	1.5
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°	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4	1526.4
2.5°	1526.4	1494.1	1450.6	1411.2	1358.2	1328.4	1287.0	1253.2	1224.4	1215.3	1211.2
5°	1526.9	1471.4	1378.4	1285.5	1171.3	1081.4	989.0	915.7	855.6	836.4	831.4
7.5°	1537.0	1455.2	1304.7	1136.0	945.0	787.4	646.5	520.3	461.7	442.0	437.9
10°	1550.7	1441.6	1219.3	956.7	682.4	479.8	339.9	259.1	220.7	199.5	202.5
12.5°	1568.3	1430.4	1124.9	762.7	451.6	263.7	186.9	156.6	148.5	144.5	142.4
15°	1592.1	1417.3	1007.7	570.3	276.8	169.7	144.0	135.9	132.8	130.8	130.3
17.5°	1616.3	1402.2	888.5	401.0	183.9	140.9	129.3	125.3	123.2	121.7	121.2
20°	1642.1	1376.4	748.6	276.3	145.0	126.8	119.2	114.7	112.1	109.6	109.1
22.5°	1653.2	1335.0	614.7	193.5	128.8	116.7	107.1	101.5	98.5	96.5	96.5
25°	1642.6	1267.8	476.3	147.0	117.2	105.6	96.0	89.9	87.4	85.4	85.4
27.5°	1614.3	1181.4	347.5	121.7	104.6	93.9	84.9	79.3	77.3	76.3	76.3
30°	1583.0	1072.3	245.0	104.6	90.4	81.8	74.2	70.7	70.2	69.2	69.2
32.5°	1556.2	970.3	168.7	91.9	79.8	71.2	66.2	64.7	65.2	64.1	64.7
35°	1541.6	870.3	125.3	81.8	71.2	63.1	60.6	60.6	60.6	60.1	60.1
37.5°	1547.6	771.8	102.0	74.8	63.6	57.6	55.1	56.1	57.1	57.1	57.1
40°	1577.9	684.4	90.4	68.2	57.1	52.5	50.5	52.0	53.5	54.6	54.6
42.5°	1616.3	613.7	81.8	62.6	52.5	47.5	46.5	48.0	49.5	50.5	50.5
45°	1640.6	542.5	73.2	55.6	48.0	41.9	41.9	43.9	43.4	43.9	43.9
47.5°	1651.7	485.9	64.7	48.0	40.9	36.4	36.9	37.9	36.9	37.9	37.9
50°	1624.4	428.8	57.1	39.9	33.8	31.8	32.8	32.3	32.3	34.3	34.3
52.5°	1574.4	386.4	50.5	33.8	28.8	28.3	29.3	27.3	27.8	27.8	27.3
55°	1537.5	362.2	45.0	29.3	24.7	25.3	24.7	21.2	19.2	17.2	16.7
57.5°	1519.3	352.6	40.9	26.3	22.2	22.2	20.2	14.6	11.1	8.6	7.6
60°	1515.3	340.9	36.9	22.7	19.7	18.7	14.6	8.6	5.6	4.0	3.5
62.5°	1476.9	312.7	33.3	18.2	17.2	15.2	9.1	5.1	3.0	2.0	1.5
65°	1351.1	257.1	29.8	14.1	13.1	11.1	5.6	3.0	1.5	0.5	0.0
67.5°	1074.9	182.3	26.3	10.6	9.1	7.1	3.5	2.0	0.5	0.0	0.0
70°	619.8	98.5	21.7	7.6	6.1	4.5	2.5	1.0	0.0	0.0	0.0
72.5°	207.1	46.0	16.7	5.1	4.5	3.5	1.5	0.5	0.0	0.0	0.0
75°	45.5	27.3	11.1	3.5	3.0	2.5	1.0	0.0	0.0	0.0	0.0
77.5°	17.2	19.2	5.6	2.5	2.0	1.5	0.5	0.0	0.0	0.0	0.0
80°	6.6	12.6	2.5	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	3.5	5.1	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	2.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.5	0.5	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)