

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: P629324

Luminaire Tested: GWS-SA1B-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

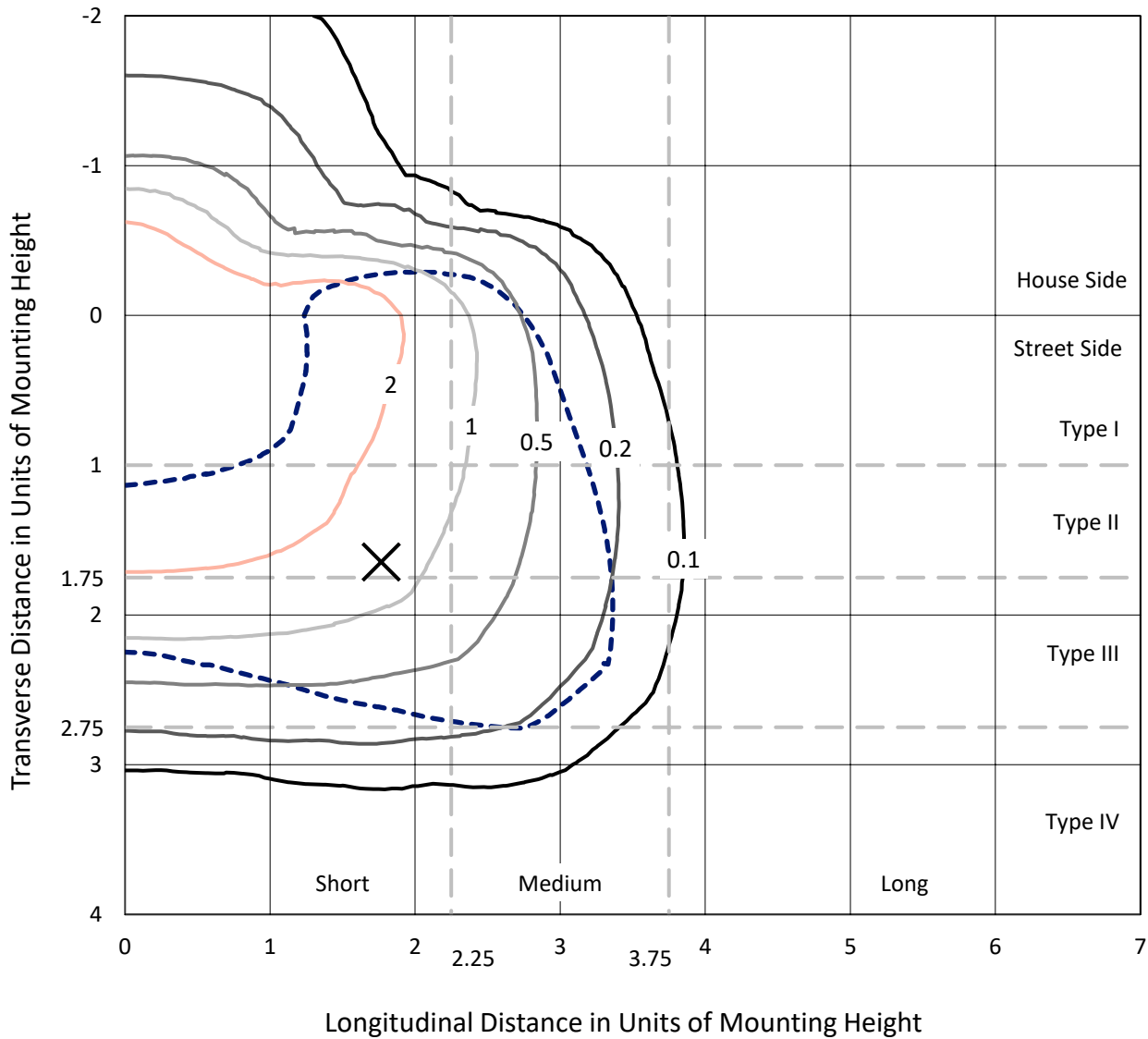
Lumens per Lamp: N/A  
Luminaire Lumens: 3504.6 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): 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

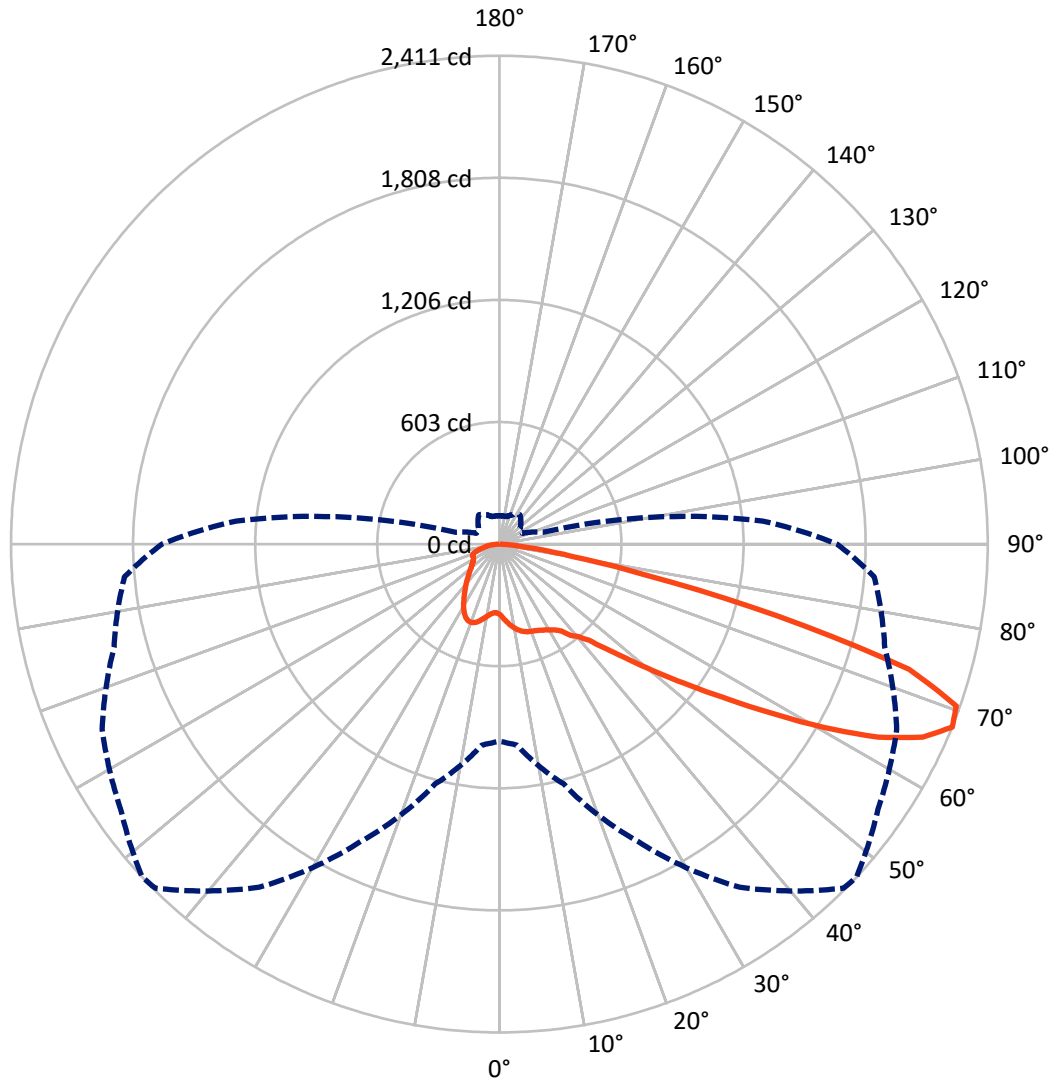
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	798.7	0.0	798.7
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	2705.9	0.0	2705.9
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	3504.6	0.0	3504.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.5	1.0
10°-20°	118.3	3.4
20°-30°	201.1	5.7
30°-40°	294.5	8.4
40°-50°	448.8	12.8
50°-60°	802.9	22.9
60°-70°	1071.5	30.6
70°-80°	484.5	13.8
80°-90°	47.5	1.4
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°	3504.6	100.0
0°-180°	3504.6	100.0

**Coefficient of Utilization**



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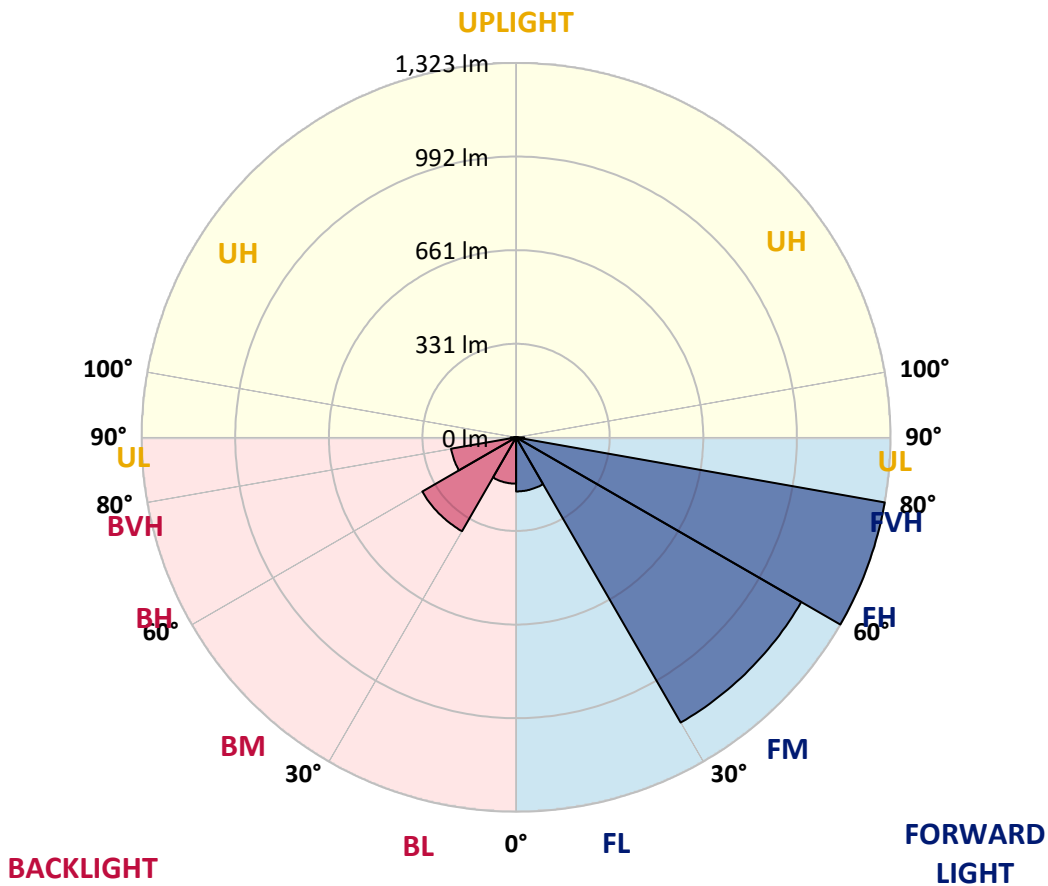
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.1	5.5			
FM (30°-60°)	1163.6	33.2			
FH (60°-80°)	1322.9	37.7			G1/1800
FVH (80°-90°)	28.2	0.8			G1/100
BL (0°-30°)	163.7	4.7	B1/500		
BM (30°-60°)	382.7	10.9	B1/1000		
BH (60°-80°)	233.0	6.6	B1/500		G1/500
BVH (80°-90°)	19.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4
2.5°	370.5	371.7	371.5	369.5	368.2	365.9	366.2	362.6	357.3	353.8	349.7
5°	403.2	405.2	402.7	399.4	394.3	386.9	386.2	378.1	367.9	360.8	353.5
7.5°	431.5	432.8	429.8	424.2	416.8	407.0	405.2	395.6	382.9	371.7	361.1
10°	453.6	455.1	451.1	443.7	434.1	424.2	422.9	413.0	399.6	386.4	373.0
12.5°	472.3	472.9	468.5	458.7	448.3	438.1	436.9	427.7	415.3	401.9	387.2
15°	483.2	483.5	478.2	467.3	457.4	448.5	447.8	439.9	428.5	415.8	400.1
17.5°	482.5	483.0	479.2	469.6	460.9	455.6	454.9	449.8	440.9	429.5	413.8
20°	473.1	473.6	471.1	464.7	460.2	458.7	458.9	457.4	452.1	442.7	426.7
22.5°	465.8	466.5	464.2	459.7	459.2	462.7	463.5	464.2	461.7	453.3	437.9
25°	469.3	470.6	467.0	460.7	461.7	469.6	471.1	473.6	471.6	464.5	451.1
27.5°	493.9	494.6	485.5	472.6	469.6	477.9	480.2	484.3	482.7	476.1	465.8
30°	550.9	550.4	530.9	499.2	486.5	489.8	491.6	497.4	497.9	493.6	483.7
32.5°	631.2	628.7	598.5	548.1	511.4	503.3	505.3	513.1	519.0	514.4	501.0
35°	716.1	713.8	680.6	621.6	557.2	529.1	526.8	532.9	541.8	529.1	509.8
37.5°	797.0	793.4	759.5	686.5	613.7	574.5	571.2	565.1	559.8	535.4	520.7
40°	886.7	882.6	853.0	770.3	676.1	609.2	600.8	576.7	571.9	556.5	549.1
42.5°	982.4	982.4	957.9	876.5	751.3	658.9	648.0	611.7	616.8	606.6	598.0
45°	1078.2	1081.0	1061.5	983.5	851.9	752.6	735.1	683.7	695.8	691.3	687.0
47.5°	1159.8	1165.2	1161.4	1092.7	975.1	866.6	840.0	786.6	812.7	823.6	835.7
50°	1247.8	1253.6	1249.8	1222.7	1119.3	1004.7	980.9	925.7	970.5	1003.2	1043.0
52.5°	1378.3	1386.6	1355.0	1344.6	1294.4	1161.6	1140.3	1077.5	1158.8	1213.0	1301.7
55°	1488.5	1488.2	1477.1	1500.9	1482.4	1353.4	1329.9	1272.8	1376.7	1434.3	1564.0
57.5°	1539.7	1545.8	1584.0	1651.4	1688.4	1587.8	1565.3	1507.0	1610.6	1640.5	1780.7
60°	1566.0	1573.6	1647.6	1780.9	1880.5	1843.8	1834.9	1760.7	1818.9	1815.4	1963.4
62.5°	1529.0	1544.2	1663.1	1840.2	2017.6	2101.0	2098.2	1985.9	1996.1	1961.3	2076.6
65°	1359.3	1375.7	1562.2	1810.6	2095.9	2296.6	2297.4	2189.9	2132.1	2032.3	2057.6
67.5°	972.1	995.6	1226.2	1620.0	2068.3	2402.3	2411.1	2282.4	2164.1	1969.5	1858.0
70°	529.9	547.1	727.8	1177.6	1819.4	2376.9	2393.4	2237.8	2023.2	1703.6	1430.2
72.5°	240.7	246.3	338.5	646.2	1242.9	2046.0	2114.9	1997.1	1661.6	1258.4	909.5
75°	110.2	112.8	147.5	309.2	649.5	1369.1	1417.5	1487.5	1156.3	794.7	474.1
77.5°	69.2	69.9	83.9	141.4	323.9	683.4	734.4	885.6	677.1	393.3	198.2
80°	40.8	41.6	52.2	76.5	152.0	312.7	361.1	350.2	318.3	169.8	90.2
82.5°	20.5	21.3	30.2	43.6	82.9	124.4	146.5	147.2	118.6	92.0	50.9
85°	7.3	7.6	9.9	17.2	35.2	41.1	45.9	56.0	58.0	53.5	24.6
87.5°	0.0	0.0	0.3	0.5	1.0	4.1	4.3	8.1	17.0	19.0	9.9
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°	347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4	347.4
2.5°	348.4	344.6	343.4	342.1	340.1	339.3	337.8	336.3	336.3	334.7	334.0
5°	350.2	345.1	341.8	340.3	339.1	339.8	339.8	340.3	342.1	341.1	341.6
7.5°	356.5	350.7	346.1	344.9	344.9	347.9	350.0	352.5	355.8	356.3	356.3
10°	367.7	360.8	356.0	355.3	356.5	360.8	363.9	366.9	371.0	371.2	371.7
12.5°	379.9	373.0	368.2	369.2	370.5	376.1	379.3	381.9	385.9	385.9	385.7
15°	392.5	384.9	380.9	382.9	386.7	393.0	393.5	393.8	395.8	395.3	395.1
17.5°	405.7	397.6	394.5	397.6	401.6	404.7	402.2	398.6	397.8	396.8	396.3
20°	418.6	410.3	409.0	411.3	412.5	410.0	402.2	395.6	392.5	391.0	390.5
22.5°	429.8	422.7	421.9	421.9	415.6	406.7	395.1	386.2	382.1	380.1	379.6
25°	443.0	436.4	435.1	428.3	412.0	395.8	380.1	372.0	368.7	367.7	367.9
27.5°	458.4	453.8	449.8	430.3	401.9	376.6	358.8	355.3	354.0	355.3	356.0
30°	477.4	472.9	463.7	427.7	385.7	351.5	334.5	334.2	338.0	341.3	341.8
32.5°	492.9	490.8	475.9	419.6	362.9	323.9	309.4	310.4	317.3	321.8	322.6
35°	505.0	508.3	486.0	406.2	335.8	297.7	286.3	286.9	290.7	297.0	297.2
37.5°	522.3	533.4	495.2	385.7	304.6	275.2	264.8	261.0	260.5	262.3	262.8
40°	557.0	573.7	501.7	355.8	274.4	254.9	243.3	235.9	229.6	224.8	223.2
42.5°	609.4	628.7	505.5	319.5	247.6	234.9	221.7	212.4	201.2	191.1	187.5
45°	705.7	712.1	505.5	281.0	223.8	216.2	203.0	191.8	177.6	165.7	163.2
47.5°	859.8	839.5	506.0	243.8	202.7	199.7	188.3	175.6	159.9	150.0	148.5
50°	1091.9	1020.7	516.4	212.9	185.2	185.7	177.4	163.4	149.3	141.9	140.6
52.5°	1355.0	1244.0	544.3	190.1	170.5	174.3	169.8	156.4	143.7	137.3	136.1
55°	1602.3	1449.2	568.1	173.8	158.1	164.7	164.5	152.0	140.6	134.3	133.5
57.5°	1812.6	1589.9	564.6	160.7	147.5	155.8	159.6	149.3	138.6	133.3	132.5
60°	1943.4	1664.4	514.2	148.5	139.4	149.5	156.9	148.5	139.6	138.4	138.6
62.5°	2000.1	1650.7	417.4	139.4	134.1	146.5	159.9	153.8	149.0	152.0	153.8
65°	1911.9	1533.1	307.1	132.5	129.0	147.2	167.0	162.2	149.0	151.0	151.8
67.5°	1667.1	1305.0	222.0	125.7	122.6	149.5	177.1	160.9	140.4	140.4	138.9
70°	1201.4	938.6	161.2	118.8	116.3	146.2	177.6	152.3	130.5	129.7	125.9
72.5°	723.0	553.7	125.7	111.2	106.7	129.7	166.5	142.2	120.9	114.5	110.0
75°	375.5	277.5	105.4	102.9	91.5	110.0	152.3	126.4	103.4	97.8	95.3
77.5°	160.9	129.7	90.5	91.7	76.0	92.5	122.9	109.5	91.7	84.6	82.4
80°	79.3	73.7	71.5	73.5	60.8	71.5	105.9	95.8	77.8	69.7	66.4
82.5°	45.4	43.1	51.4	52.2	43.3	59.8	89.5	81.1	64.4	55.5	50.2
85°	21.0	22.6	31.2	31.4	26.9	41.1	58.5	45.6	34.2	28.4	27.1
87.5°	8.4	9.9	13.7	13.4	7.9	7.6	5.1	2.8	2.3	2.0	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

(END OF REPORT)