

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: P631756

Luminaire Tested: GWS-SA2B-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

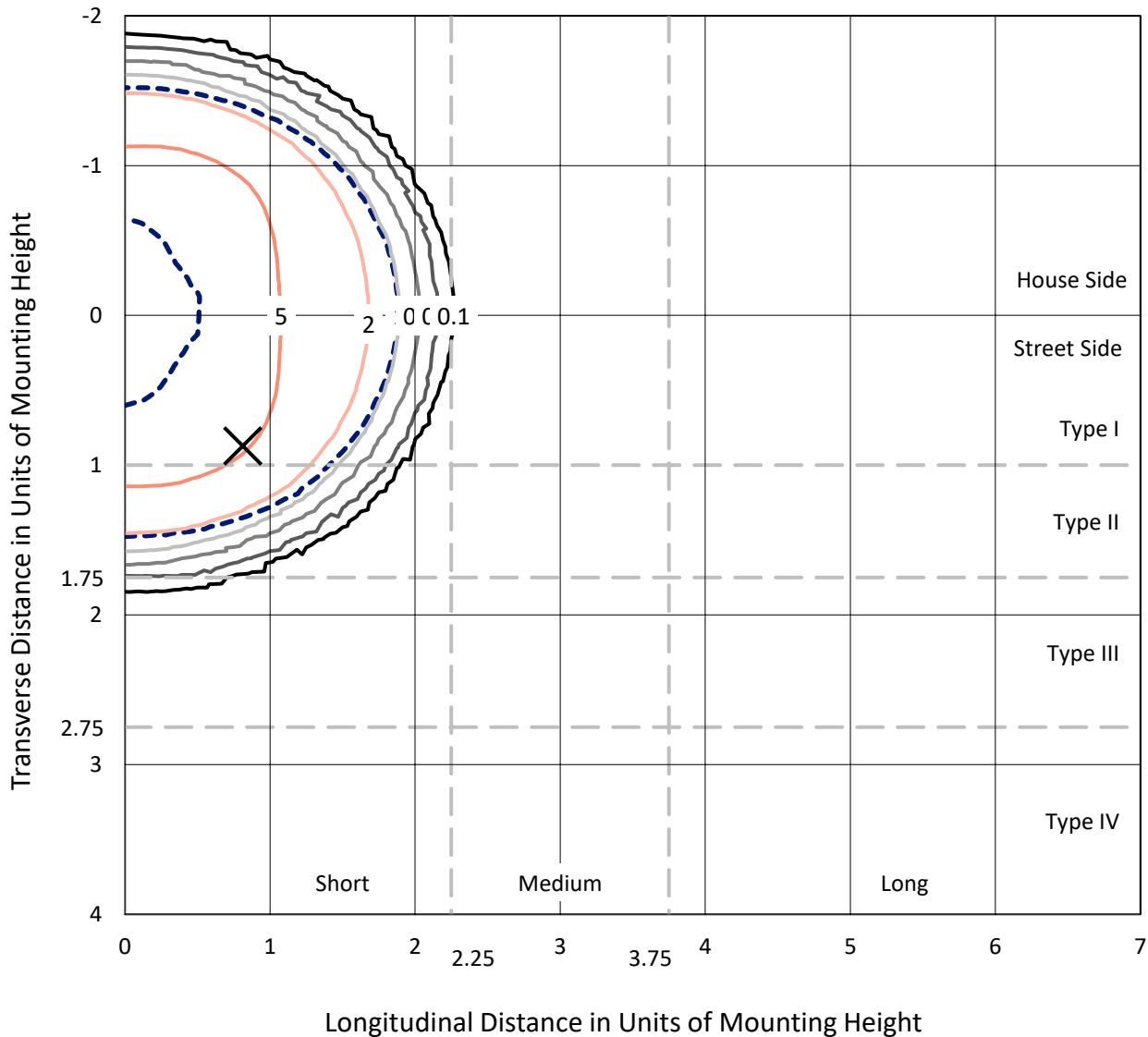
Lumens per Lamp: N/A  
Luminaire Lumens: 4411.5 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

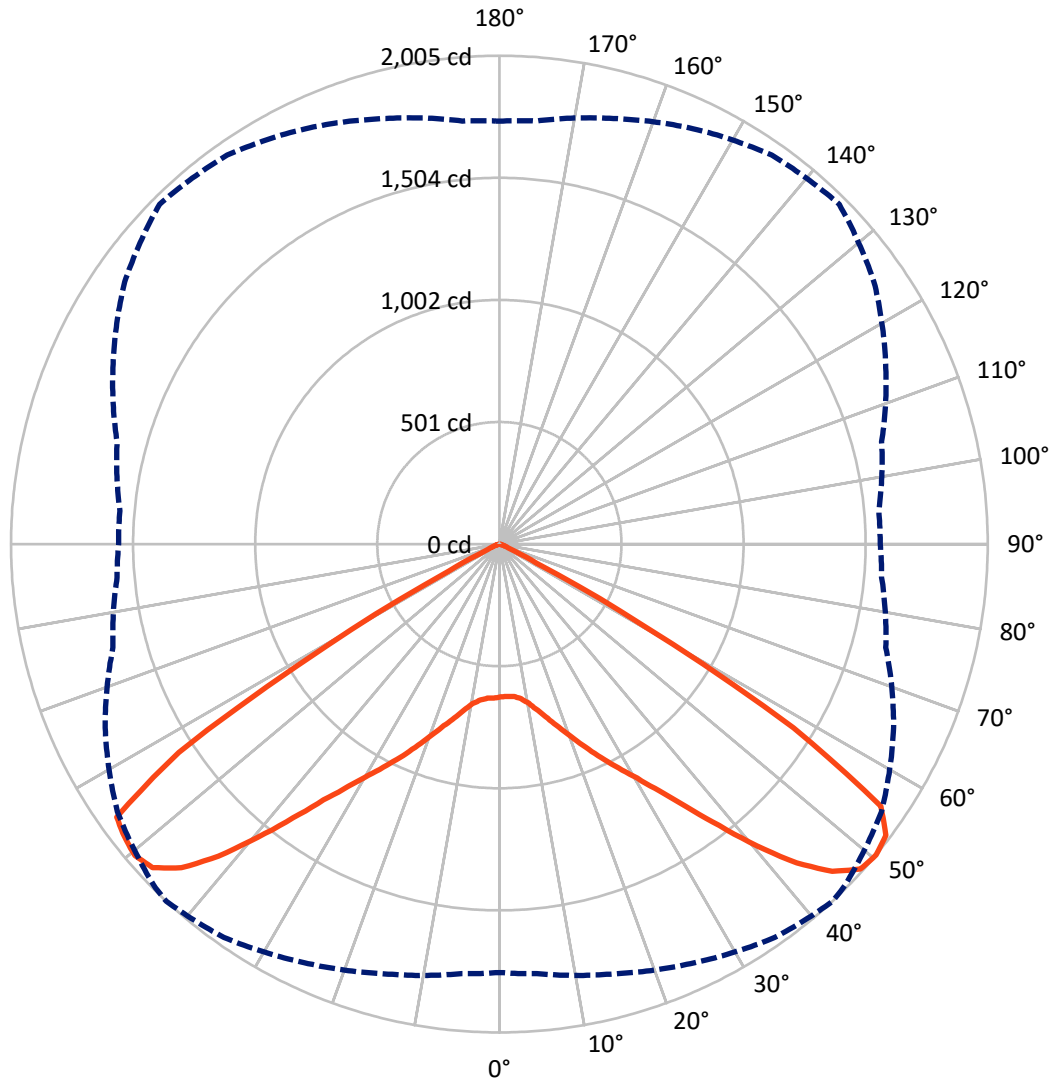
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2205.7	0.0	2205.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2205.8	0.0	2205.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4411.5	0.0	4411.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.8	1.4
10°-20°	212.6	4.8
20°-30°	430.2	9.8
30°-40°	798.2	18.1
40°-50°	1324.9	30.0
50°-60°	1352.2	30.7
60°-70°	221.7	5.0
70°-80°	9.7	0.2
80°-90°	0.1	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°	4411.5	100.0
0°-180°	4411.5	100.0

**Coefficient of Utilization**



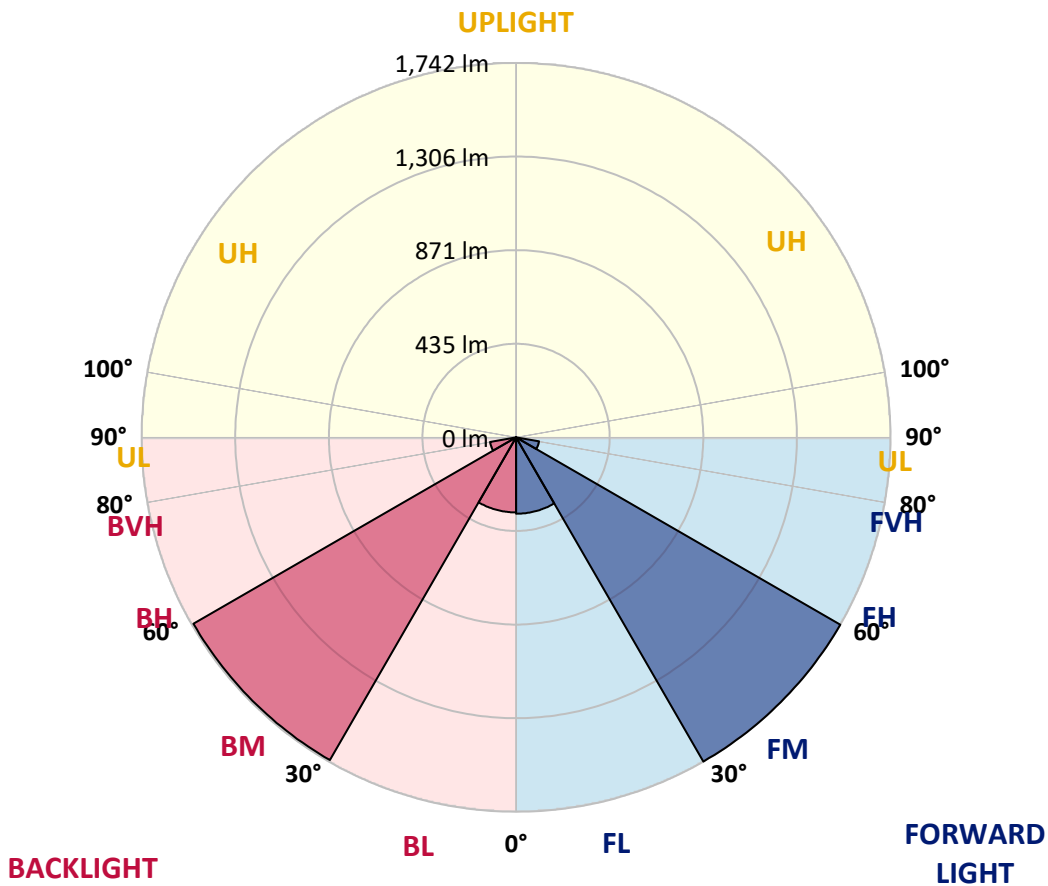
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.4	8.1			
FM (30°-60°)	1741.9	39.5			
FH (60°-80°)	108.5	2.5			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	349.2	7.9	B1/500		
BM (30°-60°)	1733.4	39.3	B2/2500		
BH (60°-80°)	123.0	2.8	B1/500		G0/660
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5
2.5°	615.8	617.2	619.2	621.1	623.6	626.0	627.5	631.9	630.9	634.8	634.8
5°	608.9	610.4	612.8	617.2	622.6	628.0	631.9	640.6	645.5	653.3	656.3
7.5°	612.3	614.3	617.2	624.1	632.3	640.6	645.0	659.2	668.9	683.6	691.9
10°	623.6	625.5	630.4	642.1	652.8	664.5	669.9	688.0	703.6	723.6	735.3
12.5°	636.2	638.7	648.4	666.0	684.6	700.2	707.5	727.5	743.6	766.0	784.6
15°	649.4	653.3	668.5	694.3	720.7	741.6	749.4	770.9	787.0	810.9	831.9
17.5°	680.2	684.6	701.6	729.4	765.5	789.9	796.8	819.2	831.4	847.5	869.5
20°	718.7	727.0	748.0	781.6	821.2	844.6	849.5	871.4	870.5	877.3	896.3
22.5°	766.5	772.4	795.3	835.3	879.7	905.6	916.8	926.1	913.9	908.0	920.2
25°	816.3	823.1	848.0	891.9	941.7	971.5	980.7	988.0	968.5	946.6	948.0
27.5°	880.7	885.6	910.0	956.8	1006.6	1040.2	1048.5	1061.2	1035.4	1000.2	990.5
30°	957.3	962.2	988.0	1037.3	1086.6	1115.4	1128.1	1143.7	1115.4	1071.5	1060.3
32.5°	1047.1	1052.0	1085.1	1135.9	1176.4	1207.6	1219.8	1236.4	1213.9	1164.7	1152.0
35°	1154.4	1157.3	1196.4	1251.5	1294.5	1324.7	1333.0	1352.5	1327.6	1278.4	1271.5
37.5°	1278.8	1282.3	1324.7	1388.6	1432.5	1466.2	1479.4	1484.7	1454.5	1399.4	1394.0
40°	1415.5	1426.7	1468.2	1537.0	1586.2	1628.7	1640.4	1622.3	1579.9	1504.7	1495.0
42.5°	1557.9	1567.7	1614.0	1688.7	1745.8	1789.2	1789.7	1750.7	1678.4	1574.5	1559.9
45°	1676.5	1680.4	1740.4	1815.6	1885.8	1916.6	1919.5	1848.7	1739.9	1615.0	1583.8
47.5°	1758.0	1764.3	1816.5	1888.7	1966.3	1994.1	1988.3	1900.0	1769.2	1641.4	1589.6
50°	1759.0	1769.7	1826.3	1896.1	1971.2	2004.9	1996.6	1914.6	1785.8	1642.3	1575.5
52.5°	1603.3	1620.9	1713.1	1814.1	1929.2	1986.8	1988.8	1933.6	1779.4	1626.7	1562.8
55°	1209.6	1228.6	1344.7	1516.9	1739.4	1900.0	1927.8	1911.2	1772.1	1633.6	1585.3
57.5°	640.2	625.5	689.9	860.7	1140.3	1424.2	1505.7	1638.4	1690.6	1641.9	1626.7
60°	139.5	148.8	198.1	266.9	445.0	669.9	749.4	976.8	1247.1	1367.2	1454.0
62.5°	60.0	59.0	61.5	69.8	102.0	169.8	207.4	338.6	534.3	733.8	869.0
65°	49.3	49.8	51.7	51.7	48.3	48.8	51.2	77.6	124.9	175.2	235.2
67.5°	37.1	37.6	41.0	42.0	39.5	35.1	34.6	29.3	30.7	38.5	40.0
70°	23.4	23.4	25.4	26.3	26.3	24.4	23.9	21.0	20.5	23.4	26.3
72.5°	12.7	12.7	13.7	14.1	13.7	13.2	13.2	12.7	12.2	14.1	18.1
75°	5.4	5.4	5.9	5.9	5.4	5.4	5.4	5.4	5.4	6.3	9.8
77.5°	1.0	1.5	2.0	1.5	1.0	1.0	1.0	1.5	1.5	2.0	2.9
80°	0.5	0.5	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5	627.5
2.5°	638.2	632.8	634.8	635.8	634.3	633.3	628.0	626.5	624.1	620.1	619.2
5°	659.7	655.3	654.8	651.9	645.0	636.7	626.5	622.1	617.2	612.3	611.4
7.5°	695.8	690.4	687.0	677.2	661.6	648.4	631.4	622.1	615.8	609.4	607.9
10°	742.1	735.8	726.0	708.0	687.0	668.0	648.0	635.8	626.0	617.2	616.7
12.5°	791.4	784.6	767.0	744.1	718.7	701.1	675.8	658.7	644.1	630.9	629.4
15°	843.1	834.8	810.9	783.6	760.2	742.1	714.3	687.0	664.5	645.5	643.6
17.5°	882.6	872.4	844.1	823.6	804.6	786.0	754.8	718.7	688.9	666.0	660.6
20°	907.5	897.8	870.9	859.7	850.9	837.8	800.7	763.1	729.9	701.6	696.8
22.5°	931.4	919.7	896.3	896.3	903.1	897.8	857.8	814.8	775.8	743.1	735.8
25°	958.3	949.0	932.4	946.1	963.2	962.7	921.7	868.0	823.1	786.5	779.2
27.5°	997.3	988.0	982.2	1008.0	1029.5	1028.0	983.2	925.1	877.8	841.7	834.8
30°	1066.1	1057.3	1051.0	1082.2	1109.5	1099.3	1050.0	993.9	946.1	905.1	900.2
32.5°	1157.8	1148.6	1140.3	1171.5	1195.9	1182.7	1135.9	1083.2	1028.0	988.0	978.3
35°	1278.4	1258.8	1250.5	1287.6	1297.9	1283.2	1238.3	1192.0	1133.4	1087.6	1081.2
37.5°	1402.8	1379.8	1374.0	1406.2	1422.8	1417.4	1364.7	1316.4	1253.0	1202.2	1194.9
40°	1509.1	1488.2	1477.9	1528.2	1565.7	1569.2	1521.8	1462.8	1388.1	1335.4	1322.3
42.5°	1571.6	1553.5	1551.1	1629.2	1690.6	1734.6	1678.0	1617.0	1538.4	1478.9	1468.2
45°	1585.7	1574.0	1594.5	1697.0	1792.6	1872.6	1824.3	1759.9	1675.0	1612.1	1601.8
47.5°	1584.3	1580.4	1617.0	1732.1	1853.1	1951.7	1927.8	1855.1	1773.1	1707.2	1697.5
50°	1563.3	1563.8	1624.8	1749.7	1877.5	1973.2	1949.2	1881.9	1808.7	1743.8	1736.0
52.5°	1555.0	1552.1	1610.1	1744.3	1902.4	1963.4	1909.7	1834.1	1752.6	1672.6	1660.9
55°	1584.3	1577.0	1612.1	1739.9	1905.3	1958.0	1816.5	1652.6	1485.7	1391.1	1383.3
57.5°	1628.2	1620.4	1637.0	1707.7	1752.6	1628.2	1336.9	1072.4	900.7	828.0	796.3
60°	1454.0	1448.6	1436.0	1350.6	1158.3	873.9	595.3	379.6	272.7	220.5	220.5
62.5°	902.2	894.8	826.0	613.8	446.0	258.1	142.0	88.8	67.3	62.9	62.5
65°	253.2	251.8	208.3	147.4	93.7	58.1	51.2	52.2	51.2	49.8	49.3
67.5°	38.1	42.0	42.0	34.2	32.7	36.6	42.9	45.9	43.4	41.0	40.0
70°	24.4	26.3	25.4	22.0	23.4	27.3	30.7	31.2	29.8	27.3	26.8
72.5°	17.1	19.0	15.6	14.1	14.6	16.1	17.6	17.6	17.1	16.1	15.1
75°	10.2	10.2	7.3	6.8	6.8	7.3	7.3	8.3	8.3	7.8	7.3
77.5°	3.4	3.9	2.4	2.0	2.0	2.0	2.4	2.9	2.9	2.4	2.0
80°	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5
82.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	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)