

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: P631811

Luminaire Tested: GWS-SA2B-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631811  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

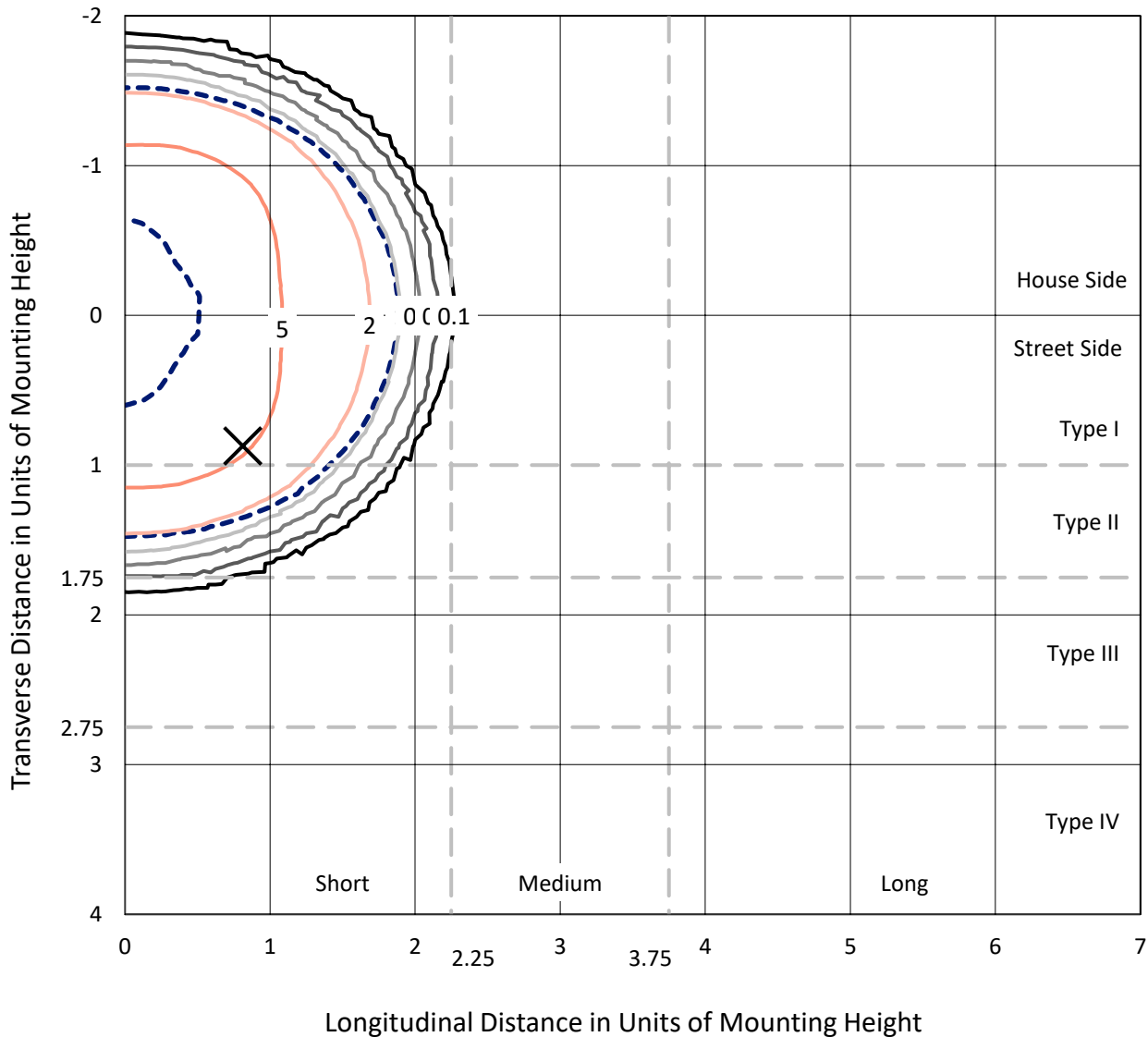
Lumens per Lamp: N/A  
Luminaire Lumens: 4472.8 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

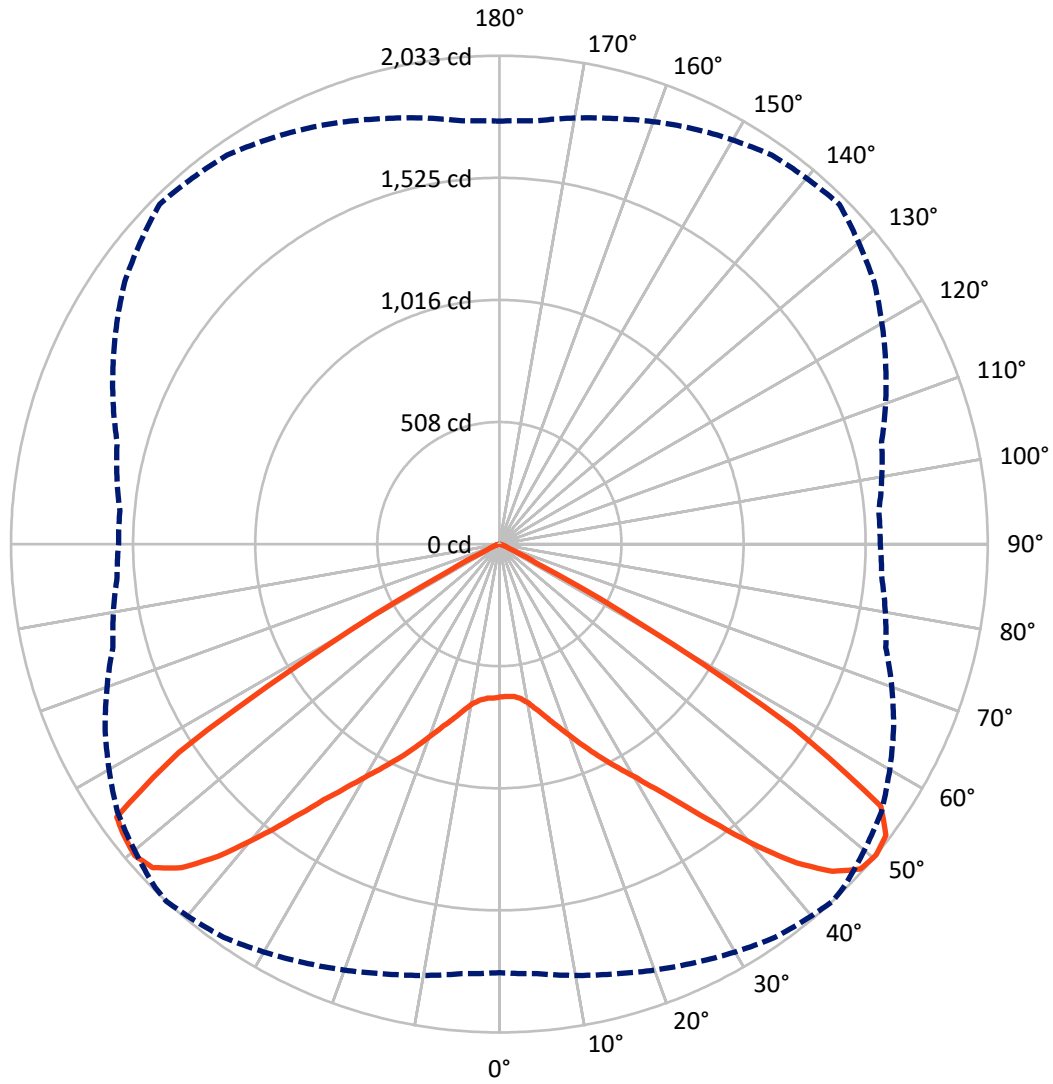
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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	2236.3	0.0	2236.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2236.5	0.0	2236.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4472.8	0.0	4472.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.7	1.4
10°-20°	215.6	4.8
20°-30°	436.2	9.8
30°-40°	809.3	18.1
40°-50°	1343.4	30.0
50°-60°	1370.9	30.7
60°-70°	224.8	5.0
70°-80°	9.8	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°	4472.8	100.0
0°-180°	4472.8	100.0

**Coefficient of Utilization**



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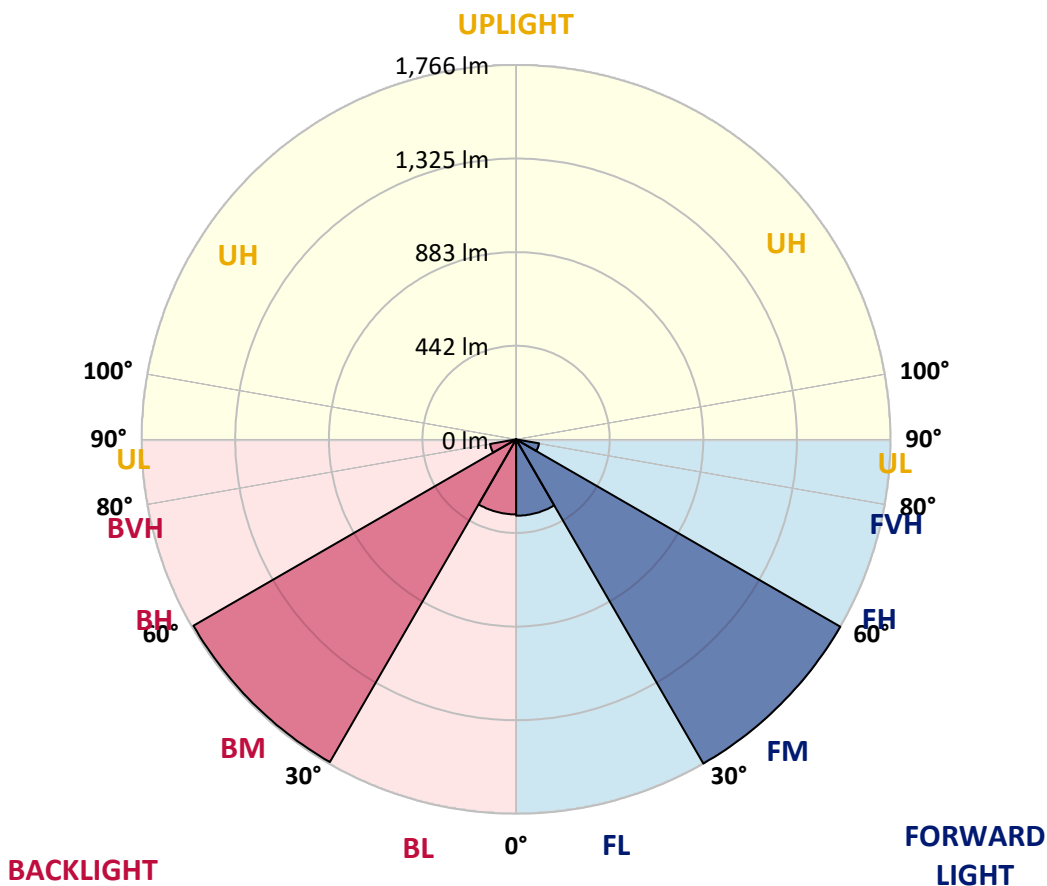
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.3	8.1			
FM (30°-60°)	1766.1	39.5			
FH (60°-80°)	110.0	2.5			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	354.1	7.9	B1/500		
BM (30°-60°)	1757.5	39.3	B2/2500		
BH (60°-80°)	124.7	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°	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2
2.5°	624.3	625.8	627.8	629.8	632.2	634.7	636.2	640.6	639.6	643.6	643.6
5°	617.4	618.9	621.3	625.8	631.2	636.7	640.6	649.5	654.5	662.4	665.4
7.5°	620.8	622.8	625.8	632.7	641.1	649.5	654.0	668.3	678.2	693.1	701.5
10°	632.2	634.2	639.2	651.0	661.9	673.8	679.2	697.5	713.4	733.6	745.5
12.5°	645.1	647.6	657.5	675.3	694.1	709.9	717.3	737.6	753.9	776.7	795.5
15°	658.4	662.4	677.7	704.0	730.7	751.9	759.9	781.6	798.0	822.2	843.5
17.5°	689.6	694.1	711.4	739.6	776.2	800.9	807.8	830.6	843.0	859.3	881.6
20°	728.7	737.1	758.4	792.5	832.6	856.3	861.3	883.5	882.5	889.5	908.8
22.5°	777.2	783.1	806.4	846.9	891.9	918.2	929.5	938.9	926.6	920.6	933.0
25°	827.6	834.6	859.8	904.3	954.8	984.9	994.3	1001.8	982.0	959.7	961.2
27.5°	892.9	897.9	922.6	970.1	1020.6	1054.7	1063.1	1076.0	1049.8	1014.1	1004.2
30°	970.6	975.5	1001.8	1051.7	1101.7	1130.9	1143.7	1159.6	1130.9	1086.4	1075.0
32.5°	1061.6	1066.6	1100.2	1151.7	1192.7	1224.4	1236.8	1253.6	1230.8	1180.9	1168.0
35°	1170.5	1173.4	1213.0	1268.9	1312.4	1343.1	1351.5	1371.3	1346.1	1296.1	1289.2
37.5°	1296.6	1300.1	1343.1	1407.9	1452.4	1486.6	1499.9	1505.4	1474.7	1418.8	1413.4
40°	1435.1	1446.5	1488.6	1558.3	1608.3	1651.3	1663.2	1644.9	1601.8	1525.7	1515.8
42.5°	1579.6	1589.5	1636.5	1712.2	1770.0	1814.1	1814.6	1775.0	1701.8	1596.4	1581.6
45°	1699.8	1703.7	1764.6	1840.8	1912.0	1943.2	1946.2	1874.4	1764.1	1637.5	1605.8
47.5°	1782.4	1788.8	1841.8	1915.0	1993.6	2021.8	2015.9	1926.4	1793.8	1664.2	1611.7
50°	1783.4	1794.3	1851.7	1922.4	1998.6	2032.7	2024.3	1941.2	1810.6	1665.2	1597.4
52.5°	1625.6	1643.4	1736.9	1839.3	1956.0	2014.4	2016.4	1960.5	1804.2	1649.3	1584.5
55°	1226.4	1245.7	1363.4	1538.0	1763.6	1926.4	1954.6	1937.7	1796.8	1656.3	1607.3
57.5°	649.0	634.2	699.5	872.7	1156.1	1444.0	1526.6	1661.2	1714.1	1664.7	1649.3
60°	141.5	150.9	200.8	270.6	451.2	679.2	759.9	990.4	1264.5	1386.2	1474.2
62.5°	60.8	59.9	62.3	70.7	103.4	172.2	210.2	343.3	541.7	744.0	881.1
65°	50.0	50.5	52.4	52.4	49.0	49.5	51.9	78.7	126.6	177.6	238.4
67.5°	37.6	38.1	41.6	42.5	40.1	35.6	35.1	29.7	31.2	39.1	40.6
70°	23.7	23.7	25.7	26.7	26.7	24.7	24.2	21.3	20.8	23.7	26.7
72.5°	12.9	12.9	13.9	14.3	13.9	13.4	13.4	12.9	12.4	14.3	18.3
75°	5.4	5.4	5.9	5.9	5.4	5.4	5.4	5.4	5.4	6.4	9.9
77.5°	1.0	1.5	2.0	1.5	1.0	1.0	1.0	1.5	1.5	2.0	3.0
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°	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2	636.2
2.5°	647.1	641.6	643.6	644.6	643.1	642.1	636.7	635.2	632.7	628.8	627.8
5°	668.8	664.4	663.9	660.9	654.0	645.6	635.2	630.7	625.8	620.8	619.9
7.5°	705.4	700.0	696.5	686.6	670.8	657.5	640.1	630.7	624.3	617.9	616.4
10°	752.4	746.0	736.1	717.8	696.5	677.2	657.0	644.6	634.7	625.8	625.3
12.5°	802.4	795.5	777.7	754.4	728.7	710.9	685.2	667.8	653.0	639.6	638.2
15°	854.8	846.4	822.2	794.5	770.7	752.4	724.2	696.5	673.8	654.5	652.5
17.5°	894.9	884.5	855.8	835.1	815.8	797.0	765.3	728.7	698.5	675.3	669.8
20°	920.1	910.2	883.0	871.7	862.8	849.4	811.8	773.7	740.1	711.4	706.4
22.5°	944.4	932.5	908.8	908.8	915.7	910.2	869.7	826.2	786.6	753.4	746.0
25°	971.6	962.2	945.4	959.2	976.5	976.0	934.5	880.1	834.6	797.5	790.0
27.5°	1011.2	1001.8	995.8	1022.1	1043.8	1042.3	996.8	938.0	890.0	853.4	846.4
30°	1080.9	1072.0	1065.6	1097.2	1124.9	1114.6	1064.6	1007.7	959.2	917.7	912.7
32.5°	1173.9	1164.5	1156.1	1187.8	1212.5	1199.2	1151.7	1098.2	1042.3	1001.8	991.9
35°	1296.1	1276.3	1267.9	1305.5	1315.9	1301.1	1255.6	1208.6	1149.2	1102.7	1096.3
37.5°	1422.3	1399.0	1393.1	1425.7	1442.5	1437.1	1383.7	1334.7	1270.4	1218.9	1211.5
40°	1530.1	1508.8	1498.4	1549.4	1587.5	1591.0	1543.0	1483.1	1407.4	1354.0	1340.6
42.5°	1593.4	1575.1	1572.7	1651.8	1714.1	1758.7	1701.3	1639.4	1559.8	1499.4	1488.6
45°	1607.8	1595.9	1616.7	1720.6	1817.5	1898.7	1849.7	1784.4	1698.3	1634.5	1624.1
47.5°	1606.3	1602.3	1639.4	1756.2	1878.9	1978.8	1954.6	1880.9	1797.7	1731.0	1721.1
50°	1585.0	1585.5	1647.4	1774.0	1903.6	2000.6	1976.3	1908.1	1833.9	1768.1	1760.1
52.5°	1576.6	1573.6	1632.5	1768.6	1928.8	1990.7	1936.3	1859.6	1777.0	1695.8	1684.0
55°	1606.3	1598.9	1634.5	1764.1	1931.8	1985.2	1841.8	1675.6	1506.4	1410.4	1402.5
57.5°	1650.8	1642.9	1659.7	1731.5	1777.0	1650.8	1355.5	1087.4	913.2	839.5	807.4
60°	1474.2	1468.8	1455.9	1369.3	1174.4	886.0	603.5	384.9	276.5	223.6	223.6
62.5°	914.7	907.3	837.5	622.3	452.2	261.7	144.0	90.0	68.3	63.8	63.3
65°	256.7	255.3	211.2	149.4	95.0	58.9	51.9	52.9	51.9	50.5	50.0
67.5°	38.6	42.5	42.5	34.6	33.1	37.1	43.5	46.5	44.0	41.6	40.6
70°	24.7	26.7	25.7	22.3	23.7	27.7	31.2	31.7	30.2	27.7	27.2
72.5°	17.3	19.3	15.8	14.3	14.8	16.3	17.8	17.8	17.3	16.3	15.3
75°	10.4	10.4	7.4	6.9	6.9	7.4	7.4	8.4	8.4	7.9	7.4
77.5°	3.5	4.0	2.5	2.0	2.0	2.0	2.5	3.0	3.0	2.5	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)