

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: P632120

Luminaire Tested: GWS-SA2C-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-722-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

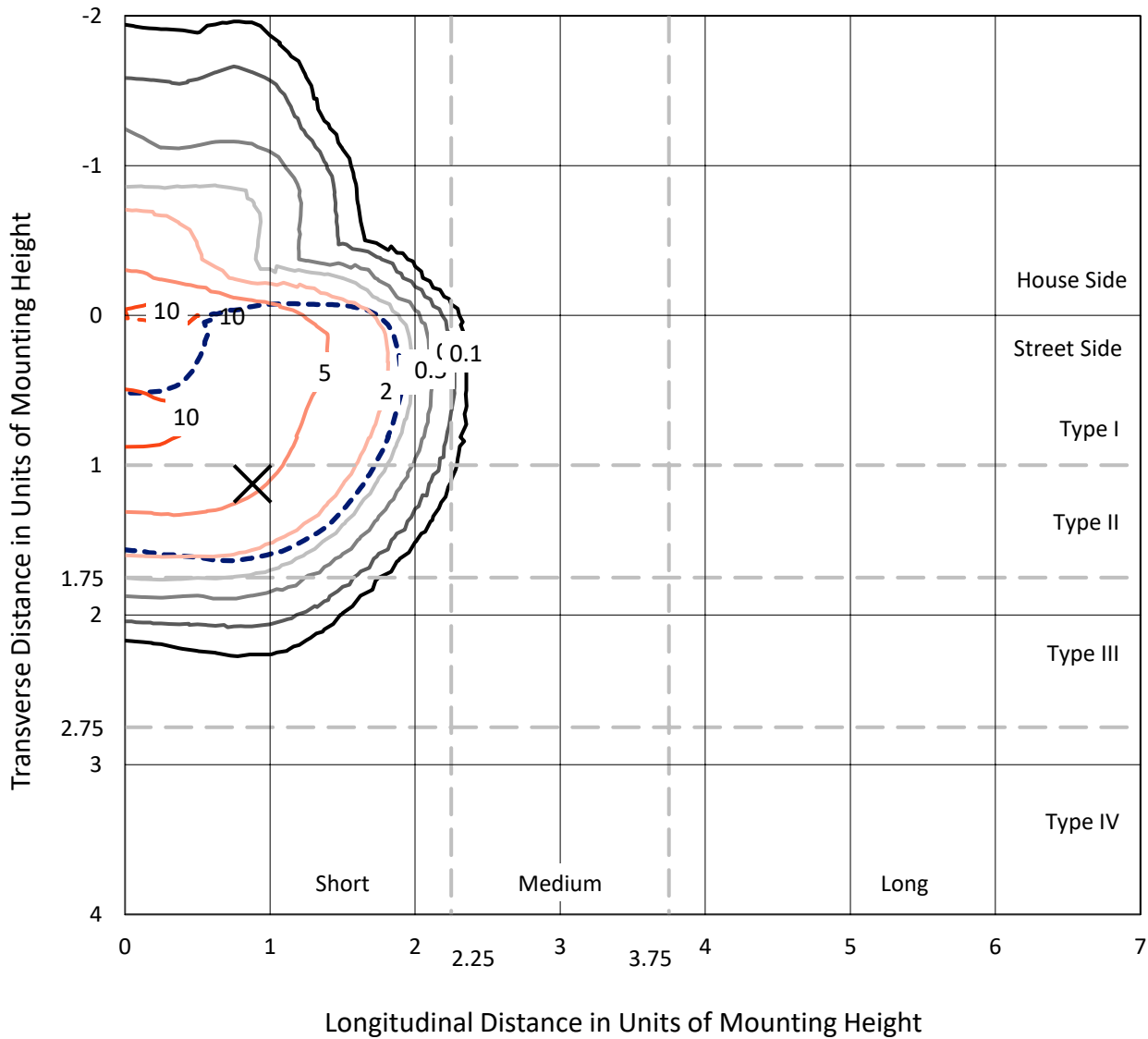
Lumens per Lamp: N/A  
Luminaire Lumens: 4275.8 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

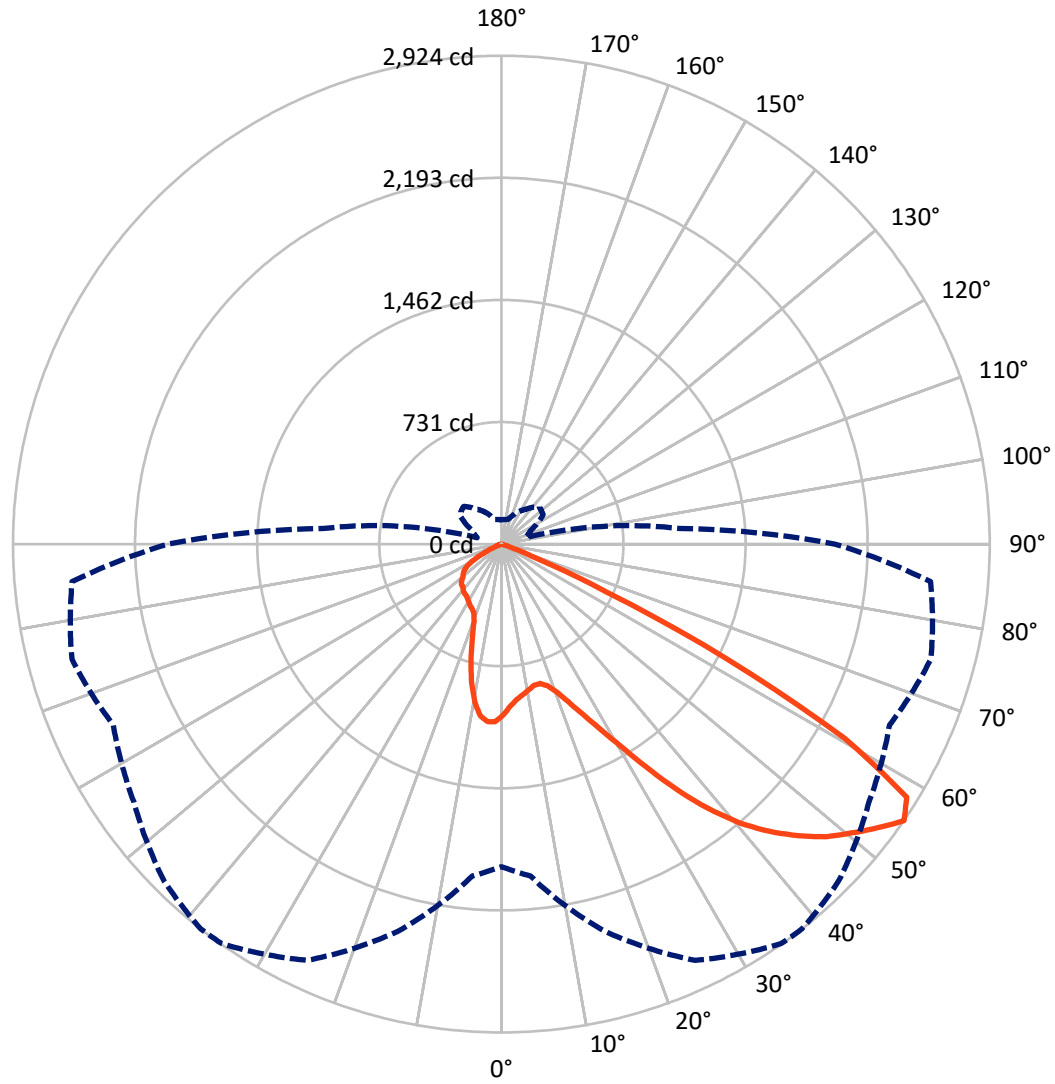
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	833.1	0.0	833.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3442.8	0.0	3442.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4275.8	0.0	4275.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	2.2
10°-20°	255.2	6.0
20°-30°	438.0	10.2
30°-40°	726.5	17.0
40°-50°	1067.9	25.0
50°-60°	1247.9	29.2
60°-70°	423.0	9.9
70°-80°	21.6	0.5
80°-90°	0.9	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°	4275.8	100.0
0°-180°	4275.8	100.0

**Coefficient of Utilization**



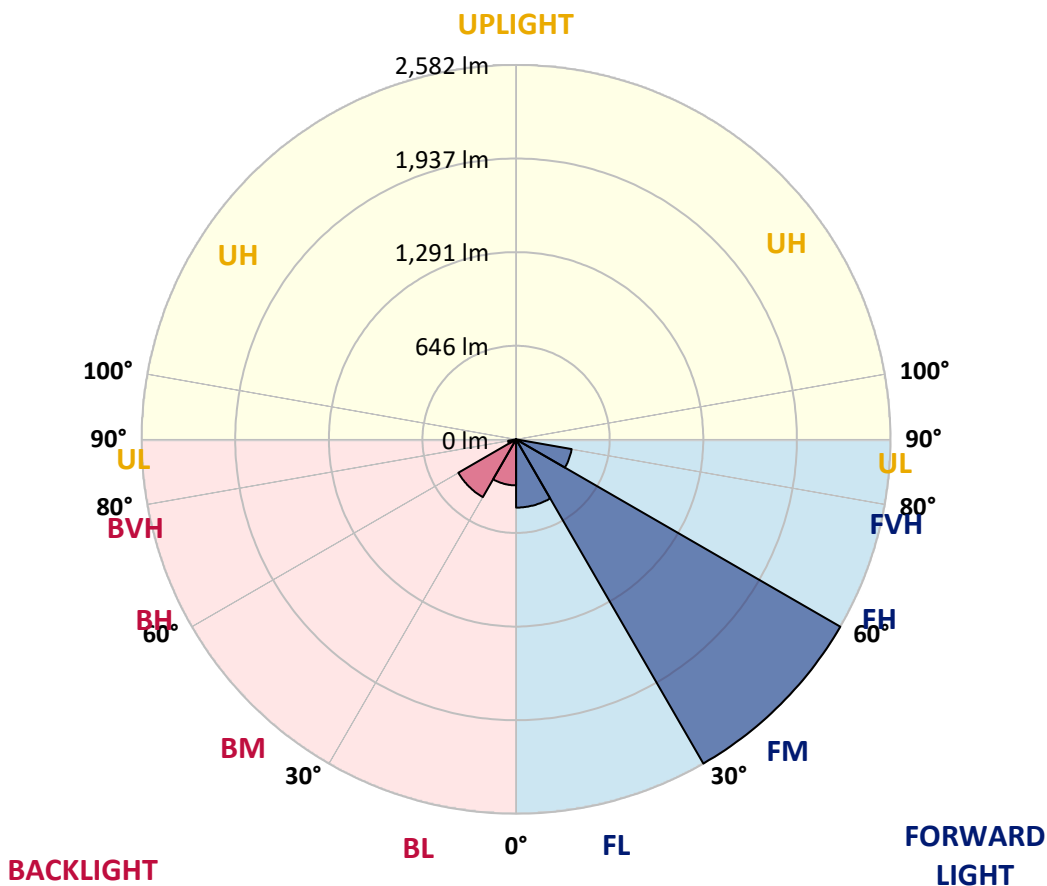
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.7	11.0			
FM (30°-60°)	2582.5	60.4			
FH (60°-80°)	389.2	9.1			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	317.4	7.4	B1/500		
BM (30°-60°)	459.8	10.8	B1/1000		
BH (60°-80°)	55.5	1.3	B0/110		G0/110
BVH (80°-90°)	0.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	955.0	953.0	956.9	964.8	972.1	974.5	981.9	992.1	998.5	1013.6	1025.9
5°	912.0	911.0	914.9	921.8	931.5	935.0	946.2	963.3	980.4	1006.8	1032.7
7.5°	872.9	872.4	878.3	893.4	907.6	912.0	925.7	946.7	969.7	1010.2	1048.3
10°	821.6	822.1	833.3	854.8	880.7	889.5	911.5	941.8	971.6	1023.9	1076.7
12.5°	804.9	805.9	811.8	828.4	856.8	868.0	898.8	944.7	982.8	1043.5	1113.3
15°	845.5	845.5	840.6	842.6	855.3	865.6	897.8	954.5	1001.9	1066.9	1149.5
17.5°	924.2	921.3	909.1	892.4	888.0	891.5	917.4	975.5	1028.8	1094.3	1190.6
20°	1030.7	1031.7	1007.8	973.1	945.2	944.7	960.4	1012.7	1067.4	1127.0	1235.0
22.5°	1159.8	1155.9	1124.1	1076.7	1028.3	1024.4	1030.7	1069.4	1123.1	1178.8	1289.8
25°	1309.3	1307.4	1262.4	1198.9	1134.8	1125.6	1125.6	1163.7	1202.8	1252.6	1355.3
27.5°	1465.7	1465.7	1422.2	1348.9	1263.9	1247.3	1244.8	1289.8	1315.7	1325.5	1410.5
30°	1626.5	1624.6	1581.6	1506.3	1415.4	1398.3	1391.4	1424.7	1443.2	1413.9	1479.4
32.5°	1789.8	1793.2	1749.7	1679.8	1598.7	1587.4	1566.4	1566.4	1581.6	1540.5	1587.9
35°	1965.2	1964.2	1930.0	1882.6	1813.2	1800.5	1765.8	1711.6	1734.5	1716.4	1737.9
37.5°	2120.1	2127.5	2110.9	2075.7	2019.5	2006.8	1949.6	1851.3	1868.9	1897.3	1916.3
40°	2277.5	2283.4	2300.0	2288.8	2217.9	2194.4	2092.8	1931.5	1951.0	2048.3	2103.0
42.5°	2432.0	2434.9	2468.6	2487.2	2392.4	2351.3	2201.3	1980.4	2000.9	2166.6	2262.4
45°	2530.2	2536.5	2592.3	2649.0	2546.3	2490.1	2295.6	2042.9	2051.7	2248.7	2380.1
47.5°	2526.3	2540.9	2645.5	2748.7	2678.8	2618.2	2409.0	2143.1	2128.4	2325.9	2457.9
50°	2447.6	2465.2	2615.2	2779.0	2774.1	2717.9	2535.1	2288.3	2242.3	2394.3	2467.6
52.5°	2284.4	2335.2	2562.0	2782.9	2850.8	2822.5	2691.0	2483.8	2396.3	2492.6	2483.3
55°	1931.5	1994.0	2400.2	2749.6	2920.2	2923.6	2854.7	2687.6	2563.4	2661.7	2579.6
57.5°	1466.2	1516.1	1847.4	2447.6	2805.3	2861.6	2918.2	2795.1	2666.5	2777.0	2602.0
60°	883.6	941.3	1156.8	1796.1	2265.8	2361.6	2584.0	2560.0	2405.1	2452.5	2133.8
62.5°	358.2	388.5	534.2	989.7	1426.1	1515.6	1728.7	1764.8	1726.7	1678.3	1294.2
65°	131.0	143.2	214.1	409.1	655.9	688.6	801.0	865.1	917.8	781.5	481.4
67.5°	81.1	89.0	139.3	210.2	238.5	221.9	225.8	269.3	257.1	158.8	86.0
70°	60.1	66.5	109.0	145.6	96.3	74.3	50.3	53.8	48.4	42.5	42.0
72.5°	41.5	47.4	81.6	86.0	37.1	26.4	18.6	25.9	29.3	28.8	29.8
75°	27.4	31.8	51.3	33.7	9.3	7.3	6.4	13.7	17.6	17.6	18.1
77.5°	16.1	18.6	18.1	6.8	2.0	2.0	1.5	2.4	3.9	4.4	5.4
80°	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
82.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
85°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5
87.5°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	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°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1035.1	1031.7	1045.9	1056.2	1064.5	1068.4	1063.0	1062.5	1062.5	1051.8	1048.8
5°	1047.4	1048.8	1068.9	1077.7	1079.1	1074.2	1062.0	1053.7	1048.8	1037.6	1031.2
7.5°	1070.8	1075.7	1094.8	1093.3	1080.1	1057.6	1025.4	1000.4	984.3	966.7	956.0
10°	1104.5	1113.8	1125.6	1105.0	1063.0	1005.8	939.4	891.9	863.6	843.6	831.3
12.5°	1145.6	1154.9	1151.0	1102.6	1015.1	913.0	827.4	759.0	726.3	708.2	695.5
15°	1187.1	1193.0	1167.6	1073.3	930.6	793.2	697.9	630.0	589.9	575.2	564.5
17.5°	1229.7	1228.2	1170.5	1015.6	817.7	658.3	564.5	518.1	506.8	504.4	503.4
20°	1274.1	1260.9	1158.8	933.0	681.8	524.9	471.6	474.6	495.1	504.9	506.8
22.5°	1325.0	1291.7	1129.5	821.1	543.0	437.4	442.8	471.6	499.5	512.7	514.6
25°	1379.2	1320.1	1080.6	677.4	428.1	402.2	434.0	467.2	497.0	513.2	515.1
27.5°	1414.9	1326.9	1000.4	532.7	367.5	388.5	422.3	454.0	484.8	502.4	504.9
30°	1453.5	1324.0	891.5	410.5	347.0	376.8	406.1	435.0	463.3	482.9	484.8
32.5°	1510.2	1322.0	758.5	333.3	338.7	367.5	389.0	413.0	432.5	443.8	442.3
35°	1584.5	1319.6	603.6	300.6	333.8	360.2	377.3	388.5	367.0	360.2	361.7
37.5°	1679.8	1325.5	473.1	286.9	332.3	358.2	372.9	340.6	307.4	294.7	292.8
40°	1785.4	1340.6	360.7	281.5	337.2	363.1	356.3	303.0	262.0	237.0	231.7
42.5°	1891.4	1357.2	285.4	279.6	345.5	376.8	328.9	275.6	214.1	199.9	197.9
45°	1970.1	1354.3	246.8	276.1	352.9	384.6	321.6	236.5	191.1	184.7	185.2
47.5°	2009.7	1322.0	225.8	268.3	355.8	376.8	303.5	220.4	175.5	182.3	188.2
50°	1988.7	1238.5	206.2	253.2	349.4	366.6	274.7	208.2	167.6	196.0	209.2
52.5°	1963.3	1135.8	184.7	229.7	334.3	352.4	263.4	204.8	162.7	189.1	198.9
55°	1997.0	1070.8	149.6	193.5	304.5	319.1	254.6	204.3	151.5	147.1	145.6
57.5°	1949.6	941.3	107.0	139.3	233.6	252.7	248.3	200.9	134.4	133.9	135.9
60°	1506.8	574.3	73.3	88.5	143.2	161.3	225.3	192.1	115.8	106.5	107.0
62.5°	856.3	244.4	50.3	54.7	73.3	87.0	172.0	174.5	107.0	101.7	107.0
65°	298.1	87.5	39.1	36.7	40.6	46.4	98.7	134.9	97.3	88.0	89.0
67.5°	61.6	43.5	34.7	30.3	30.3	30.3	50.3	84.1	80.2	69.9	70.9
70°	39.1	37.1	30.3	25.9	24.9	23.0	28.8	46.4	55.2	50.8	51.3
72.5°	28.8	28.3	23.9	21.0	18.6	16.6	18.1	23.0	28.3	29.3	29.8
75°	17.6	18.1	15.6	13.2	11.7	10.3	10.8	10.8	10.8	9.8	10.8
77.5°	5.4	5.9	4.9	3.9	3.4	3.4	3.4	2.9	2.4	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0
82.5°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	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)