

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: P631790

Luminaire Tested: GWS-SA2B-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631790  
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-SA2B-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

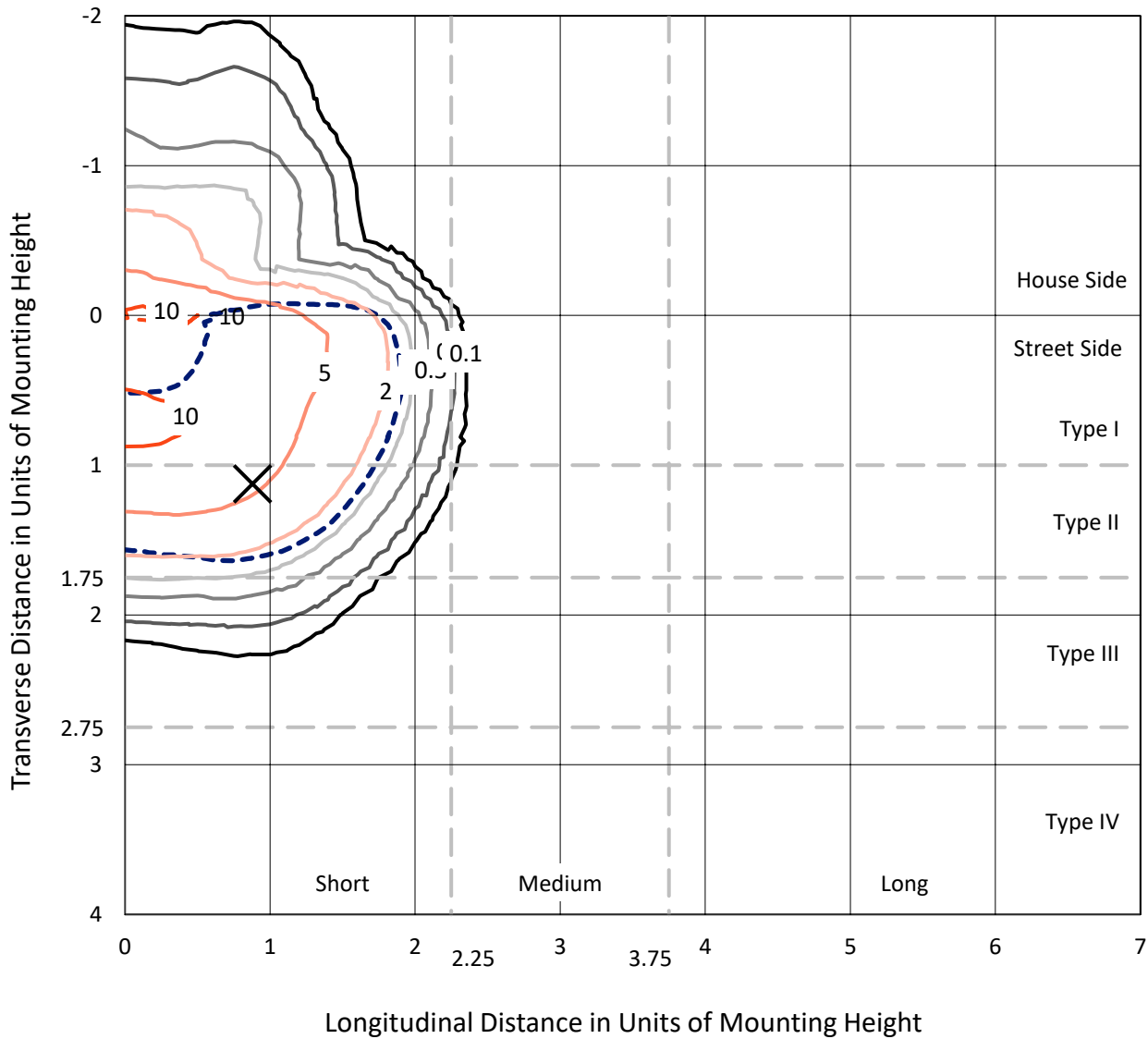
Lumens per Lamp: N/A  
Luminaire Lumens: 4269.1 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

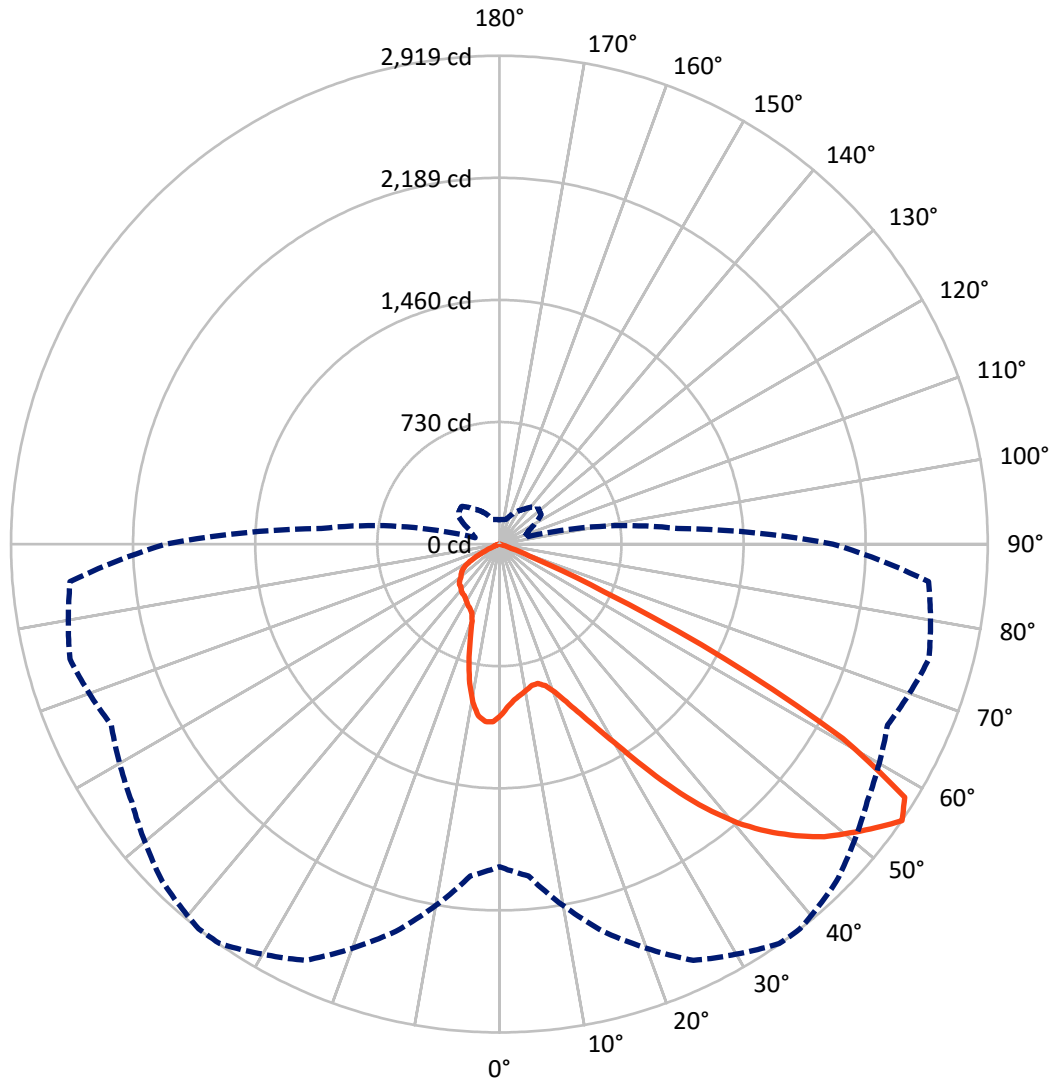
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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	831.8	0.0	831.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3437.4	0.0	3437.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4269.1	0.0	4269.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	2.2
10°-20°	254.8	6.0
20°-30°	437.3	10.2
30°-40°	725.3	17.0
40°-50°	1066.3	25.0
50°-60°	1245.9	29.2
60°-70°	422.3	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°	4269.1	100.0
0°-180°	4269.1	100.0

**Coefficient of Utilization**



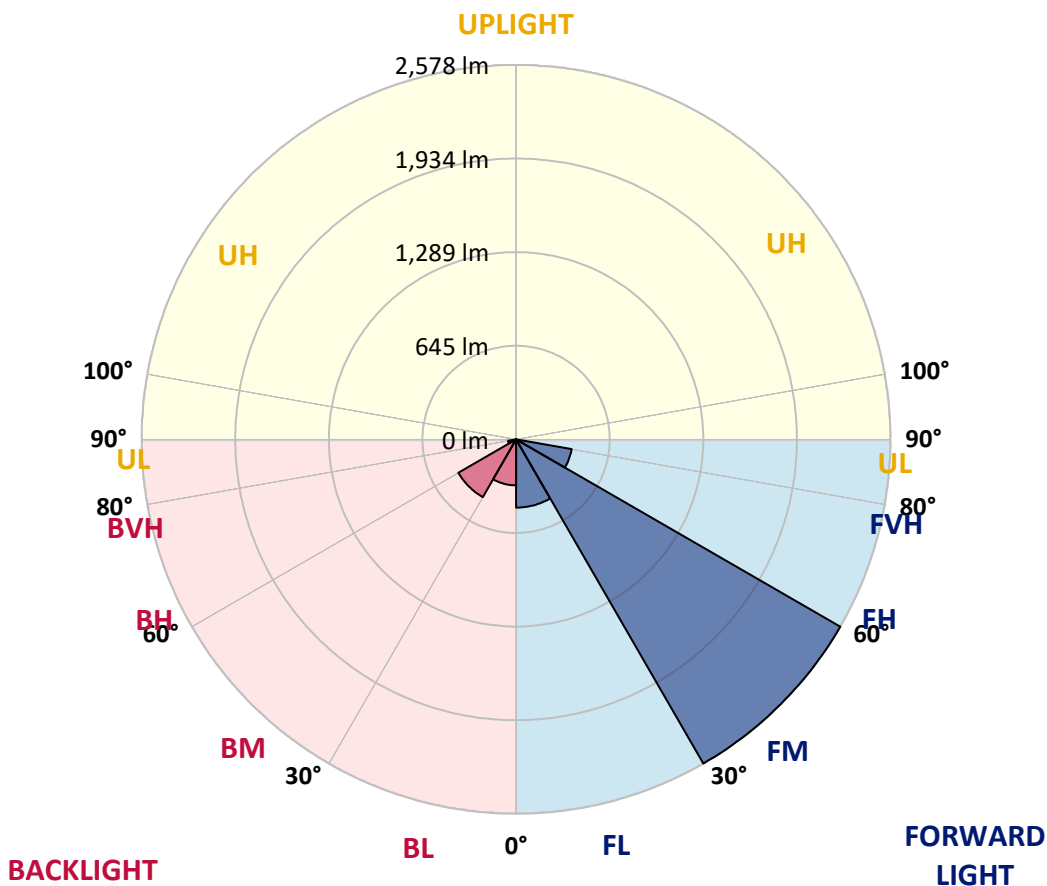
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.9	11.0			
FM (30°-60°)	2578.4	60.4			
FH (60°-80°)	388.6	9.1			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	316.9	7.4	B1/500		
BM (30°-60°)	459.1	10.8	B1/1000		
BH (60°-80°)	55.4	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°	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8
2.5°	953.5	951.5	955.4	963.3	970.6	973.0	980.3	990.6	996.9	1012.1	1024.3
5°	910.6	909.6	913.5	920.3	930.1	933.5	944.7	961.8	978.9	1005.2	1031.1
7.5°	871.5	871.0	876.9	892.0	906.2	910.6	924.2	945.2	968.1	1008.6	1046.7
10°	820.3	820.8	832.0	853.5	879.3	888.1	910.1	940.3	970.1	1022.3	1075.0
12.5°	803.7	804.7	810.5	827.1	855.4	866.6	897.4	943.2	981.3	1041.8	1111.6
15°	844.2	844.2	839.3	841.3	853.9	864.2	896.4	953.0	1000.3	1065.2	1147.7
17.5°	922.8	919.8	907.6	891.0	886.6	890.1	915.9	974.0	1027.2	1092.6	1188.7
20°	1029.1	1030.1	1006.2	971.5	943.7	943.2	958.9	1011.1	1065.7	1125.3	1233.1
22.5°	1158.0	1154.1	1122.3	1075.0	1026.7	1022.8	1029.1	1067.7	1121.4	1177.0	1287.8
25°	1307.3	1305.3	1260.4	1197.0	1133.1	1123.8	1123.8	1161.9	1200.9	1250.7	1353.1
27.5°	1463.4	1463.4	1420.0	1346.8	1261.9	1245.3	1242.9	1287.8	1313.6	1323.4	1408.3
30°	1624.0	1622.0	1579.1	1503.9	1413.2	1396.1	1389.3	1422.4	1441.0	1411.7	1477.1
32.5°	1786.9	1790.4	1746.9	1677.2	1596.2	1584.9	1563.9	1563.9	1579.1	1538.1	1585.4
35°	1962.1	1961.2	1927.0	1879.7	1810.4	1797.7	1763.0	1708.9	1731.8	1713.8	1735.2
37.5°	2116.8	2124.1	2107.5	2072.4	2016.3	2003.6	1946.5	1848.4	1866.0	1894.3	1913.3
40°	2273.9	2279.8	2296.4	2285.2	2214.4	2191.0	2089.5	1928.5	1948.0	2045.1	2099.7
42.5°	2428.1	2431.1	2464.7	2483.3	2388.6	2347.6	2197.8	1977.3	1997.8	2163.2	2258.8
45°	2526.2	2532.6	2588.2	2644.8	2542.3	2486.2	2292.0	2039.7	2048.5	2245.2	2376.4
47.5°	2522.3	2537.0	2641.4	2744.3	2674.6	2614.1	2405.2	2139.8	2125.1	2322.3	2454.0
50°	2443.8	2461.3	2611.1	2774.6	2769.7	2713.6	2531.1	2284.7	2238.8	2390.6	2463.8
52.5°	2280.8	2331.5	2557.9	2778.5	2846.3	2818.0	2686.8	2479.9	2392.5	2488.7	2479.4
55°	1928.5	1990.9	2396.4	2745.3	2915.6	2919.0	2850.2	2683.4	2559.4	2657.5	2575.5
57.5°	1463.9	1513.7	1844.5	2443.8	2801.0	2857.1	2913.7	2790.7	2662.4	2772.7	2598.0
60°	882.3	939.8	1155.0	1793.3	2262.2	2357.9	2579.9	2556.0	2401.3	2448.6	2130.5
62.5°	357.7	387.9	533.4	988.1	1423.9	1513.2	1726.0	1762.1	1724.0	1675.7	1292.1
65°	130.8	143.0	213.7	408.4	654.9	687.6	799.8	863.7	916.4	780.3	480.7
67.5°	81.0	88.8	139.1	209.8	238.1	221.5	225.4	268.9	256.7	158.6	85.9
70°	60.0	66.4	108.8	145.4	96.1	74.2	50.3	53.7	48.3	42.5	42.0
72.5°	41.5	47.3	81.5	85.9	37.1	26.4	18.5	25.9	29.3	28.8	29.8
75°	27.3	31.7	51.2	33.7	9.3	7.3	6.3	13.7	17.6	17.6	18.1
77.5°	16.1	18.5	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°	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8	1023.8
2.5°	1033.5	1030.1	1044.3	1054.5	1062.8	1066.7	1061.3	1060.8	1060.8	1050.1	1047.2
5°	1045.7	1047.2	1067.2	1076.0	1077.4	1072.6	1060.4	1052.1	1047.2	1036.0	1029.6
7.5°	1069.1	1074.0	1093.1	1091.6	1078.4	1056.0	1023.8	998.9	982.8	965.2	954.5
10°	1102.8	1112.1	1123.8	1103.3	1061.3	1004.2	937.9	890.5	862.2	842.2	830.0
12.5°	1143.8	1153.1	1149.2	1100.9	1013.5	911.5	826.1	757.8	725.1	707.1	694.4
15°	1185.3	1191.1	1165.8	1071.6	929.1	792.0	696.8	629.0	589.0	574.3	563.6
17.5°	1227.7	1226.3	1168.7	1014.0	816.4	657.3	563.6	517.2	506.0	503.6	502.6
20°	1272.1	1259.0	1157.0	931.5	680.7	524.1	470.9	473.8	494.3	504.1	506.0
22.5°	1322.9	1289.7	1127.7	819.8	542.1	436.7	442.1	470.9	498.7	511.9	513.8
25°	1377.1	1318.0	1078.9	676.3	427.5	401.6	433.3	466.5	496.3	512.4	514.3
27.5°	1412.7	1324.8	998.9	531.9	367.0	387.9	421.6	453.3	484.1	501.6	504.1
30°	1451.2	1321.9	890.1	409.9	346.5	376.2	405.5	434.3	462.6	482.1	484.1
32.5°	1507.8	1320.0	757.3	332.8	338.2	367.0	388.4	412.3	431.9	443.1	441.6
35°	1582.0	1317.5	602.6	300.1	333.3	359.6	376.7	387.9	366.5	359.6	361.1
37.5°	1677.2	1323.4	472.4	286.4	331.8	357.7	372.3	340.1	306.9	294.2	292.3
40°	1782.6	1338.5	360.1	281.1	336.7	362.6	355.7	302.5	261.6	236.7	231.3
42.5°	1888.4	1355.1	285.0	279.1	345.0	376.2	328.4	275.2	213.7	199.6	197.6
45°	1967.0	1352.2	246.4	275.7	352.3	384.0	321.1	236.2	190.8	184.5	184.9
47.5°	2006.5	1320.0	225.4	267.9	355.2	376.2	303.0	220.1	175.2	182.0	187.9
50°	1985.6	1236.5	205.9	252.8	348.9	366.0	274.2	207.9	167.4	195.7	208.9
52.5°	1960.2	1134.0	184.5	229.3	333.8	351.8	263.0	204.5	162.5	188.8	198.6
55°	1993.8	1069.1	149.3	193.2	304.0	318.6	254.2	204.0	151.3	146.9	145.4
57.5°	1946.5	939.8	106.9	139.1	233.3	252.3	247.9	200.6	134.2	133.7	135.7
60°	1504.4	573.4	73.2	88.3	143.0	161.0	225.0	191.8	115.6	106.4	106.9
62.5°	854.9	244.0	50.3	54.7	73.2	86.9	171.8	174.2	106.9	101.5	106.9
65°	297.7	87.3	39.0	36.6	40.5	46.4	98.6	134.7	97.1	87.8	88.8
67.5°	61.5	43.4	34.6	30.3	30.3	30.3	50.3	83.9	80.0	69.8	70.8
70°	39.0	37.1	30.3	25.9	24.9	22.9	28.8	46.4	55.1	50.7	51.2
72.5°	28.8	28.3	23.9	21.0	18.5	16.6	18.1	22.9	28.3	29.3	29.8
75°	17.6	18.1	15.6	13.2	11.7	10.2	10.7	10.7	10.7	9.8	10.7
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)