

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: P631570

Luminaire Tested: GWS-SA1F-830-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631570  
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-SA1F-830-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

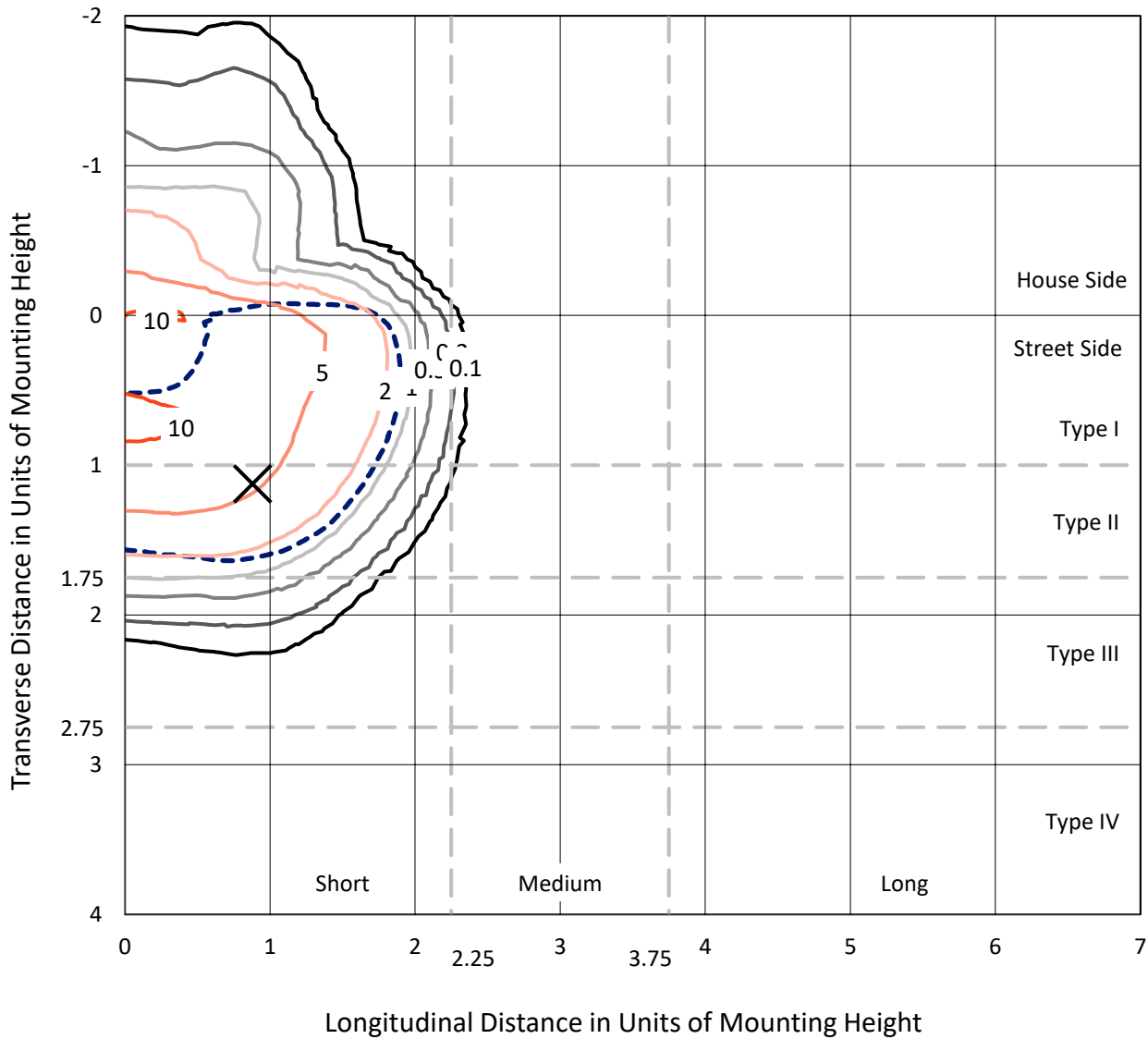
Lumens per Lamp: N/A  
Luminaire Lumens: 4197.6 lumens  
Efficiency: N/A  
Efficacy: 62.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

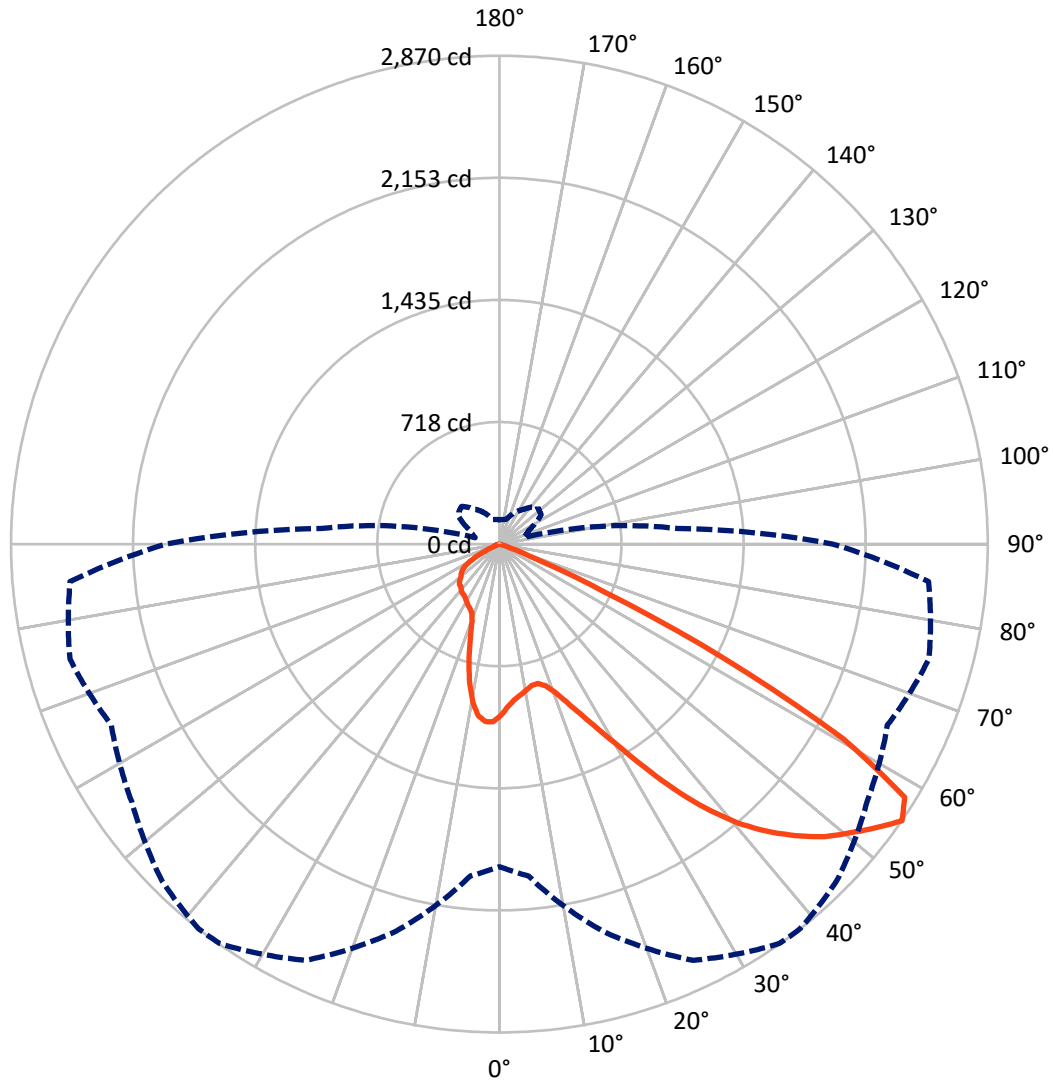
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 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	817.8	0.0	817.8
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3379.8	0.0	3379.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4197.6	0.0	4197.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	2.2
10°-20°	250.6	6.0
20°-30°	430.0	10.2
30°-40°	713.2	17.0
40°-50°	1048.4	25.0
50°-60°	1225.1	29.2
60°-70°	415.3	9.9
70°-80°	21.2	0.5
80°-90°	0.8	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°	4197.6	100.0
0°-180°	4197.6	100.0

**Coefficient of Utilization**



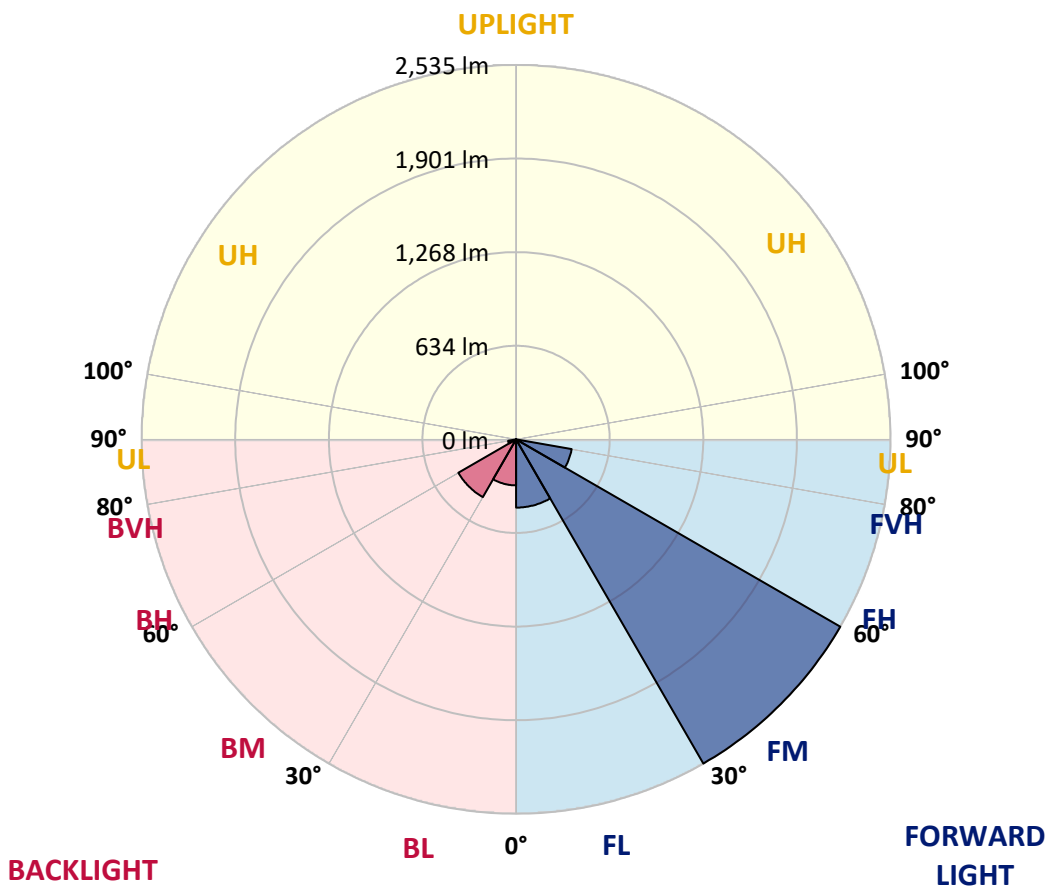
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.1	11.0			
FM (30°-60°)	2535.2	60.4			
FH (60°-80°)	382.0	9.1			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	311.6	7.4	B1/500		
BM (30°-60°)	451.4	10.8	B1/1000		
BH (60°-80°)	54.4	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°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6
2.5°	937.5	935.6	939.4	947.1	954.3	956.7	963.9	974.0	980.2	995.1	1007.1
5°	895.3	894.3	898.2	904.9	914.5	917.9	928.9	945.7	962.5	988.4	1013.8
7.5°	856.9	856.4	862.2	877.1	891.0	895.3	908.7	929.4	951.9	991.7	1029.2
10°	806.5	807.0	818.1	839.2	864.6	873.2	894.8	924.6	953.8	1005.2	1057.0
12.5°	790.2	791.2	796.9	813.3	841.1	852.1	882.3	927.4	964.9	1024.4	1093.0
15°	830.1	830.1	825.3	827.2	839.6	849.7	881.4	937.0	983.6	1047.4	1128.5
17.5°	907.3	904.4	892.4	876.1	871.8	875.2	900.6	957.7	1010.0	1074.3	1168.8
20°	1011.9	1012.9	989.3	955.3	927.9	927.4	942.8	994.1	1047.9	1106.4	1212.5
22.5°	1138.6	1134.7	1103.5	1057.0	1009.5	1005.7	1011.9	1049.8	1102.6	1157.3	1266.2
25°	1285.4	1283.5	1239.3	1176.9	1114.1	1105.0	1105.0	1142.4	1180.8	1229.7	1330.5
27.5°	1438.9	1438.9	1396.2	1324.2	1240.8	1224.4	1222.0	1266.2	1291.6	1301.2	1384.7
30°	1596.8	1594.8	1552.6	1478.7	1389.5	1372.7	1366.0	1398.6	1416.8	1388.1	1452.3
32.5°	1757.0	1760.4	1717.7	1649.1	1569.4	1558.4	1537.8	1537.8	1552.6	1512.3	1558.9
35°	1929.3	1928.3	1894.7	1848.2	1780.1	1767.6	1733.5	1680.3	1702.8	1685.1	1706.2
37.5°	2081.4	2088.6	2072.2	2037.7	1982.5	1970.1	1913.9	1817.5	1834.7	1862.6	1881.3
40°	2235.9	2241.6	2257.9	2246.9	2177.3	2154.3	2054.5	1896.2	1915.4	2010.8	2064.6
42.5°	2387.5	2390.4	2423.5	2441.7	2348.6	2308.3	2161.0	1944.1	1964.3	2126.9	2221.0
45°	2483.9	2490.2	2544.8	2600.5	2499.7	2444.6	2253.6	2005.6	2014.2	2207.6	2336.6
47.5°	2480.1	2494.5	2597.1	2698.4	2629.8	2570.3	2364.9	2103.9	2089.5	2283.4	2412.9
50°	2402.8	2420.1	2567.4	2728.1	2723.3	2668.2	2488.7	2246.4	2201.3	2350.5	2422.5
52.5°	2242.6	2292.5	2515.1	2732.0	2798.7	2770.8	2641.8	2438.3	2352.5	2447.0	2437.9
55°	1896.2	1957.6	2356.3	2699.3	2866.8	2870.2	2802.5	2638.4	2516.5	2613.0	2532.4
57.5°	1439.4	1488.3	1813.6	2402.8	2754.0	2809.2	2864.9	2744.0	2617.8	2726.2	2554.4
60°	867.5	924.1	1135.7	1763.3	2224.3	2318.4	2536.7	2513.2	2361.1	2407.6	2094.8
62.5°	351.7	381.4	524.4	971.6	1400.1	1487.9	1697.0	1732.6	1695.1	1647.6	1270.5
65°	128.6	140.6	210.2	401.6	643.9	676.0	786.4	849.2	901.1	767.2	472.6
67.5°	79.6	87.3	136.7	206.3	234.1	217.8	221.7	264.4	252.4	155.9	84.4
70°	59.0	65.3	107.0	143.0	94.5	72.9	49.4	52.8	47.5	41.7	41.3
72.5°	40.8	46.5	80.1	84.4	36.5	25.9	18.2	25.4	28.8	28.3	29.3
75°	26.9	31.2	50.4	33.1	9.1	7.2	6.2	13.4	17.3	17.3	17.8
77.5°	15.8	18.2	17.8	6.7	1.9	1.9	1.4	2.4	3.8	4.3	5.3
80°	1.9	1.4	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4	1.4
82.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.4
85°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.4	1.4
87.5°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.4	1.4
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°	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6	1006.6
2.5°	1016.2	1012.9	1026.8	1036.8	1045.0	1048.8	1043.6	1043.1	1043.1	1032.5	1029.6
5°	1028.2	1029.6	1049.3	1058.0	1059.4	1054.6	1042.6	1034.4	1029.6	1018.6	1012.4
7.5°	1051.2	1056.0	1074.7	1073.3	1060.4	1038.3	1006.6	982.1	966.3	949.0	938.5
10°	1084.3	1093.5	1105.0	1084.8	1043.6	987.4	922.2	875.6	847.8	828.1	816.1
12.5°	1124.6	1133.8	1129.9	1082.4	996.5	896.3	812.3	745.1	713.0	695.2	682.8
15°	1165.4	1171.2	1146.2	1053.6	913.5	778.7	685.2	618.5	579.1	564.7	554.2
17.5°	1207.2	1205.7	1149.1	997.0	802.7	646.3	554.2	508.6	497.6	495.2	494.2
20°	1250.8	1237.9	1137.6	915.9	669.3	515.3	463.0	465.9	486.0	495.6	497.6
22.5°	1300.7	1268.1	1108.8	806.1	533.1	429.4	434.7	463.0	490.4	503.3	505.2
25°	1354.0	1295.9	1060.8	665.0	420.3	394.9	426.1	458.7	488.0	503.8	505.7
27.5°	1389.0	1302.7	982.1	523.0	360.8	381.4	414.5	445.7	476.0	493.2	495.6
30°	1426.9	1299.8	875.2	403.0	340.7	369.9	398.7	427.0	454.8	474.0	476.0
32.5°	1482.6	1297.9	744.6	327.2	332.5	360.8	381.9	405.4	424.6	435.7	434.2
35°	1555.5	1295.5	592.6	295.1	327.7	353.6	370.4	381.4	360.3	353.6	355.1
37.5°	1649.1	1301.2	464.4	281.6	326.3	351.7	366.1	334.4	301.8	289.3	287.4
40°	1752.7	1316.1	354.1	276.4	331.1	356.5	349.8	297.5	257.2	232.7	227.4
42.5°	1856.8	1332.4	280.2	274.4	339.2	369.9	322.9	270.6	210.2	196.2	194.3
45°	1934.1	1329.5	242.3	271.1	346.4	377.6	315.7	232.2	187.6	181.4	181.8
47.5°	1972.9	1297.9	221.7	263.4	349.3	369.9	298.0	216.4	172.2	179.0	184.7
50°	1952.3	1215.8	202.5	248.5	343.1	359.8	269.6	204.4	164.6	192.4	205.4
52.5°	1927.3	1115.1	181.4	225.5	328.2	345.9	258.6	201.0	159.8	185.7	195.3
55°	1960.5	1051.2	146.8	190.0	298.9	313.3	250.0	200.6	148.7	144.4	143.0
57.5°	1913.9	924.1	105.1	136.7	229.3	248.1	243.7	197.2	131.9	131.5	133.4
60°	1479.2	563.8	72.0	86.8	140.6	158.3	221.2	188.6	113.7	104.6	105.1
62.5°	840.6	239.9	49.4	53.7	72.0	85.4	168.9	171.3	105.1	99.8	105.1
65°	292.7	85.9	38.4	36.0	39.8	45.6	96.9	132.4	95.5	86.4	87.3
67.5°	60.5	42.7	34.1	29.7	29.7	29.7	49.4	82.5	78.7	68.6	69.6
70°	38.4	36.5	29.7	25.4	24.5	22.6	28.3	45.6	54.2	49.9	50.4
72.5°	28.3	27.8	23.5	20.6	18.2	16.3	17.8	22.6	27.8	28.8	29.3
75°	17.3	17.8	15.4	13.0	11.5	10.1	10.6	10.6	10.6	9.6	10.6
77.5°	5.3	5.8	4.8	3.8	3.4	3.4	3.4	2.9	2.4	1.4	1.4
80°	1.4	1.4	1.4	1.4	1.4	1.0	1.0	0.5	0.5	0.0	0.0
82.5°	1.4	1.4	1.4	1.4	1.0	1.0	0.5	0.5	0.0	0.0	0.0
85°	1.4	1.4	1.4	1.4	1.0	1.0	0.5	0.5	0.0	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	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)