

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: P629774

Luminaire Tested: GWS-SA1C-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-735-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

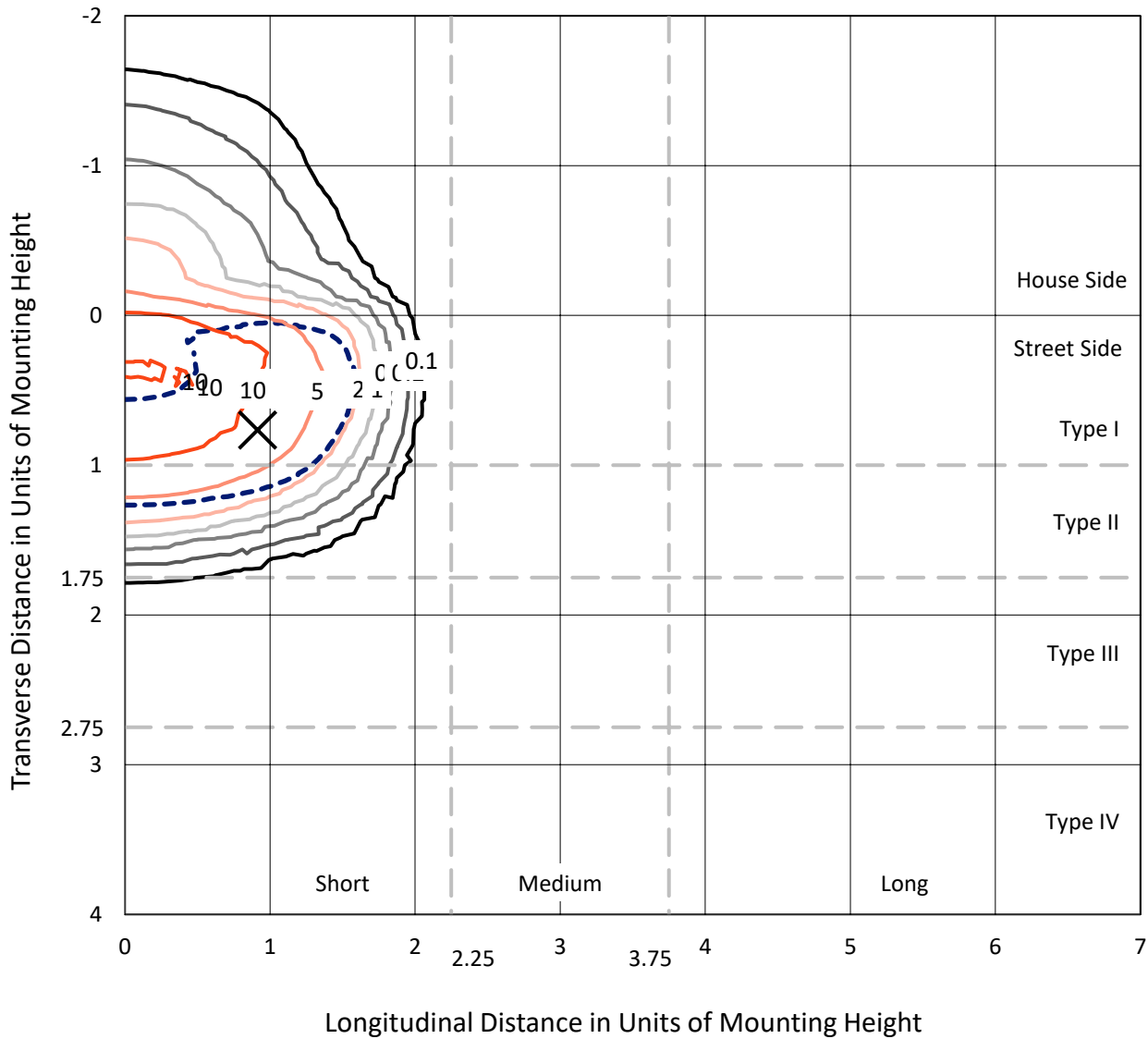
Lumens per Lamp: N/A  
Luminaire Lumens: 3570.4 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

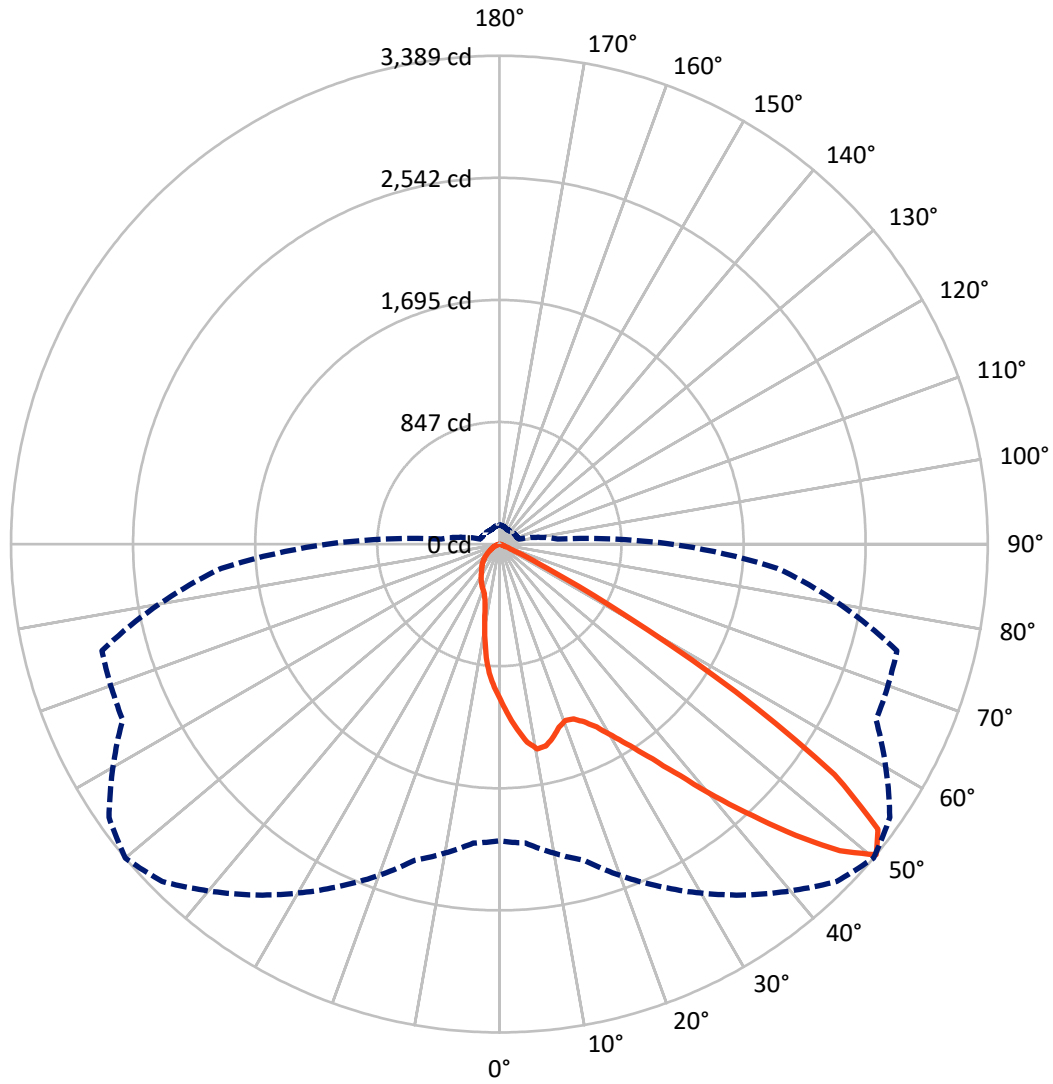
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	458.7	0.0	458.7
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	3111.7	0.0	3111.7
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	3570.4	0.0	3570.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	2.8
10°-20°	258.9	7.3
20°-30°	427.3	12.0
30°-40°	705.1	19.7
40°-50°	1115.6	31.2
50°-60°	844.6	23.7
60°-70°	105.7	3.0
70°-80°	12.0	0.3
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°	3570.4	100.0
0°-180°	3570.4	100.0

**Coefficient of Utilization**



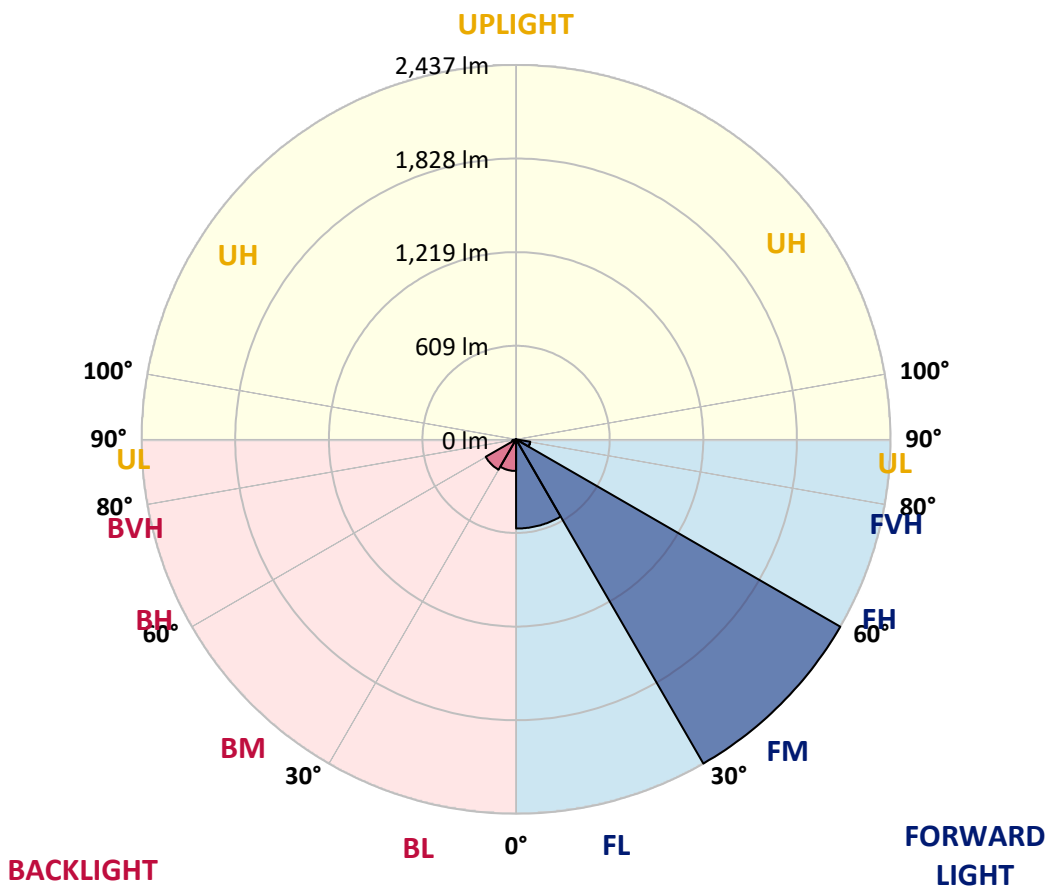
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.6	16.3			
FM (30°-60°)	2437.2	68.3			
FH (60°-80°)	93.5	2.6			G0/660
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	205.9	5.8	B1/500		
BM (30°-60°)	228.1	6.4	B1/1000		
BH (60°-80°)	24.2	0.7	B0/110		G0/110
BVH (80°-90°)	0.5	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°	45°	50°	55°	65°	75°	85°
0°	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7
2.5°	1232.6	1242.4	1239.7	1226.8	1212.9	1203.0	1187.7	1183.0	1148.3	1124.2	1098.7
5°	1381.4	1384.5	1381.1	1365.5	1341.0	1317.5	1292.4	1277.8	1219.7	1167.3	1114.0
7.5°	1417.1	1413.4	1419.8	1427.6	1424.2	1414.0	1387.5	1371.6	1302.2	1216.9	1136.1
10°	1305.6	1297.1	1321.3	1361.7	1404.2	1452.1	1445.3	1446.7	1382.8	1279.5	1164.9
12.5°	1157.8	1154.4	1172.4	1219.3	1302.6	1411.3	1437.5	1481.3	1456.5	1347.1	1197.9
15°	1092.9	1094.6	1105.5	1135.0	1194.9	1330.1	1393.0	1472.2	1522.5	1412.7	1234.3
17.5°	1102.8	1108.9	1108.5	1118.4	1154.8	1263.2	1336.6	1443.3	1573.4	1488.1	1276.1
20°	1169.7	1175.8	1166.6	1159.2	1171.4	1246.2	1307.0	1414.0	1607.8	1564.3	1320.3
22.5°	1270.0	1277.1	1255.3	1233.9	1226.1	1274.0	1318.2	1402.2	1633.9	1633.9	1359.7
25°	1391.3	1401.1	1367.5	1329.4	1307.7	1332.8	1366.1	1429.0	1660.8	1696.4	1386.5
27.5°	1526.9	1527.2	1498.3	1455.5	1414.7	1417.8	1437.8	1489.5	1690.3	1763.7	1407.6
30°	1679.5	1680.5	1642.1	1590.8	1539.4	1525.5	1542.5	1581.6	1751.8	1848.4	1436.8
32.5°	1876.6	1881.3	1826.3	1750.8	1684.2	1658.0	1667.9	1709.0	1849.7	1954.4	1480.7
35°	2143.0	2148.1	2066.9	1967.3	1861.3	1821.8	1831.7	1873.2	1991.4	2104.9	1550.7
37.5°	2406.0	2412.8	2330.6	2237.8	2092.4	2027.1	2037.3	2076.7	2204.2	2312.9	1662.8
40°	2587.8	2597.0	2571.5	2509.0	2374.1	2288.4	2300.7	2314.9	2438.3	2561.7	1808.3
42.5°	2683.7	2696.6	2707.5	2739.4	2668.4	2596.7	2575.9	2577.0	2676.5	2815.2	1959.5
45°	2689.4	2702.0	2757.7	2881.1	2935.1	2920.2	2882.5	2857.0	2858.3	2984.1	2054.0
47.5°	2502.5	2526.0	2630.3	2871.9	3075.2	3199.2	3180.2	3119.7	2934.8	2995.3	2043.8
50°	2059.7	2082.8	2272.5	2620.1	2973.2	3310.7	3389.2	3307.9	2884.8	2855.6	1938.7
52.5°	1495.9	1498.3	1621.3	2027.4	2560.0	3105.1	3289.9	3282.1	2808.7	2686.4	1795.3
55°	710.6	702.1	840.4	1144.2	1770.5	2511.4	2823.0	2911.4	2700.7	2564.0	1684.2
57.5°	207.0	211.0	272.5	446.5	885.6	1605.0	1933.3	2097.8	2216.7	2108.0	1306.3
60°	92.8	93.1	103.6	135.9	295.0	746.6	999.4	1203.0	1325.3	1228.2	648.1
62.5°	67.3	67.6	71.7	76.8	100.3	252.8	374.8	499.6	508.7	333.0	164.1
65°	56.1	56.1	56.8	56.8	60.2	90.4	113.8	146.8	123.7	91.8	64.2
67.5°	45.2	45.5	46.2	46.2	45.2	45.2	48.9	53.7	57.4	71.0	59.1
70°	35.3	35.0	35.0	35.3	34.3	29.2	31.6	36.0	39.4	55.4	51.3
72.5°	27.5	27.9	27.5	26.2	23.8	17.3	18.7	23.4	25.1	34.7	34.7
75°	20.7	21.1	19.7	15.0	9.9	5.4	7.1	11.6	14.6	17.0	12.6
77.5°	2.7	2.7	2.0	2.0	1.7	2.0	2.0	2.7	4.1	4.1	3.1
80°	0.3	0.3	0.3	0.7	1.0	1.4	1.4	1.4	1.4	1.7	1.7
82.5°	0.3	0.3	0.3	0.3	1.0	1.0	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	1.0	1.4	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°	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7	1081.7
2.5°	1083.4	1063.7	1039.9	1023.6	1000.5	985.2	963.4	948.8	936.2	926.4	931.8
5°	1083.7	1052.5	1003.9	962.4	917.2	875.8	831.2	796.2	764.6	750.4	758.2
7.5°	1090.5	1045.7	971.2	897.5	810.8	725.2	645.0	579.8	547.5	532.2	536.9
10°	1103.8	1042.6	934.9	812.5	671.9	554.9	477.1	432.9	414.9	405.4	407.1
12.5°	1116.0	1040.6	887.6	700.7	530.1	430.6	390.1	384.0	387.7	388.1	387.7
15°	1132.7	1036.8	829.2	585.9	424.1	372.1	373.1	382.0	390.8	393.5	392.8
17.5°	1150.3	1031.1	753.8	475.8	359.9	355.1	367.0	378.9	387.7	389.1	389.4
20°	1168.7	1019.2	667.8	388.4	330.0	342.2	355.5	364.3	370.8	372.8	373.5
22.5°	1177.2	994.0	568.5	325.9	309.9	326.2	336.1	347.6	349.7	342.2	343.6
25°	1172.8	951.5	471.7	283.8	289.9	306.2	320.8	315.0	306.5	301.1	302.8
27.5°	1158.8	895.1	376.9	252.8	268.5	289.2	290.9	284.4	283.1	278.7	280.0
30°	1143.9	830.2	303.1	228.0	246.7	268.5	263.4	265.7	266.1	261.0	262.7
32.5°	1134.7	762.2	241.3	211.4	232.8	236.9	247.1	251.8	252.2	240.3	242.3
35°	1137.8	695.3	204.2	197.8	219.9	218.9	233.1	235.8	216.1	199.8	201.5
37.5°	1162.6	633.4	183.2	187.2	197.4	205.3	216.1	198.1	193.7	186.2	187.2
40°	1208.8	580.8	170.6	180.8	182.2	194.7	178.1	180.5	180.8	176.0	177.1
42.5°	1262.8	536.9	163.1	177.1	173.7	175.7	159.0	163.8	168.9	166.9	167.2
45°	1290.0	494.1	156.7	164.1	165.2	145.8	142.1	147.1	153.6	154.6	155.0
47.5°	1265.9	453.3	149.9	145.4	152.2	132.9	128.5	130.2	137.6	141.7	142.4
50°	1192.1	406.4	139.7	128.8	125.1	119.3	115.2	115.5	124.0	131.2	132.5
52.5°	1088.5	357.5	123.0	109.1	100.6	105.0	106.0	104.0	111.8	118.9	120.3
55°	987.9	296.3	97.5	88.7	80.9	90.4	93.1	90.4	92.8	97.5	97.9
57.5°	695.6	167.5	74.8	73.4	66.9	77.5	81.9	77.8	73.7	76.8	77.5
60°	322.5	87.7	57.4	57.4	55.7	66.6	74.1	68.3	60.5	61.8	62.9
62.5°	100.9	55.4	42.1	39.8	45.5	56.8	62.9	57.1	47.9	47.9	49.3
65°	57.1	47.6	33.3	30.6	37.0	45.5	49.3	43.2	35.0	34.3	34.3
67.5°	53.0	45.2	29.6	24.8	26.2	29.2	30.6	26.5	24.1	23.8	24.1
70°	43.8	37.7	23.8	17.0	16.0	15.6	16.3	15.3	14.6	15.0	16.0
72.5°	27.2	22.8	15.0	10.2	8.8	8.5	8.5	8.5	8.2	8.2	8.2
75°	9.9	8.5	6.8	5.1	4.4	4.1	4.1	4.4	4.1	3.7	3.4
77.5°	3.1	2.7	2.7	2.7	2.4	2.0	1.7	1.7	1.4	1.0	1.0
80°	1.7	1.7	1.7	1.7	1.4	1.4	1.0	0.7	0.3	0.3	0.0
82.5°	1.7	1.7	1.7	1.4	1.4	1.4	1.0	0.7	0.3	0.0	0.0
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.0	0.7	0.3	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)