

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: P631450

Luminaire Tested: GWS-SA1F-760-U-T2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-760-U-T2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

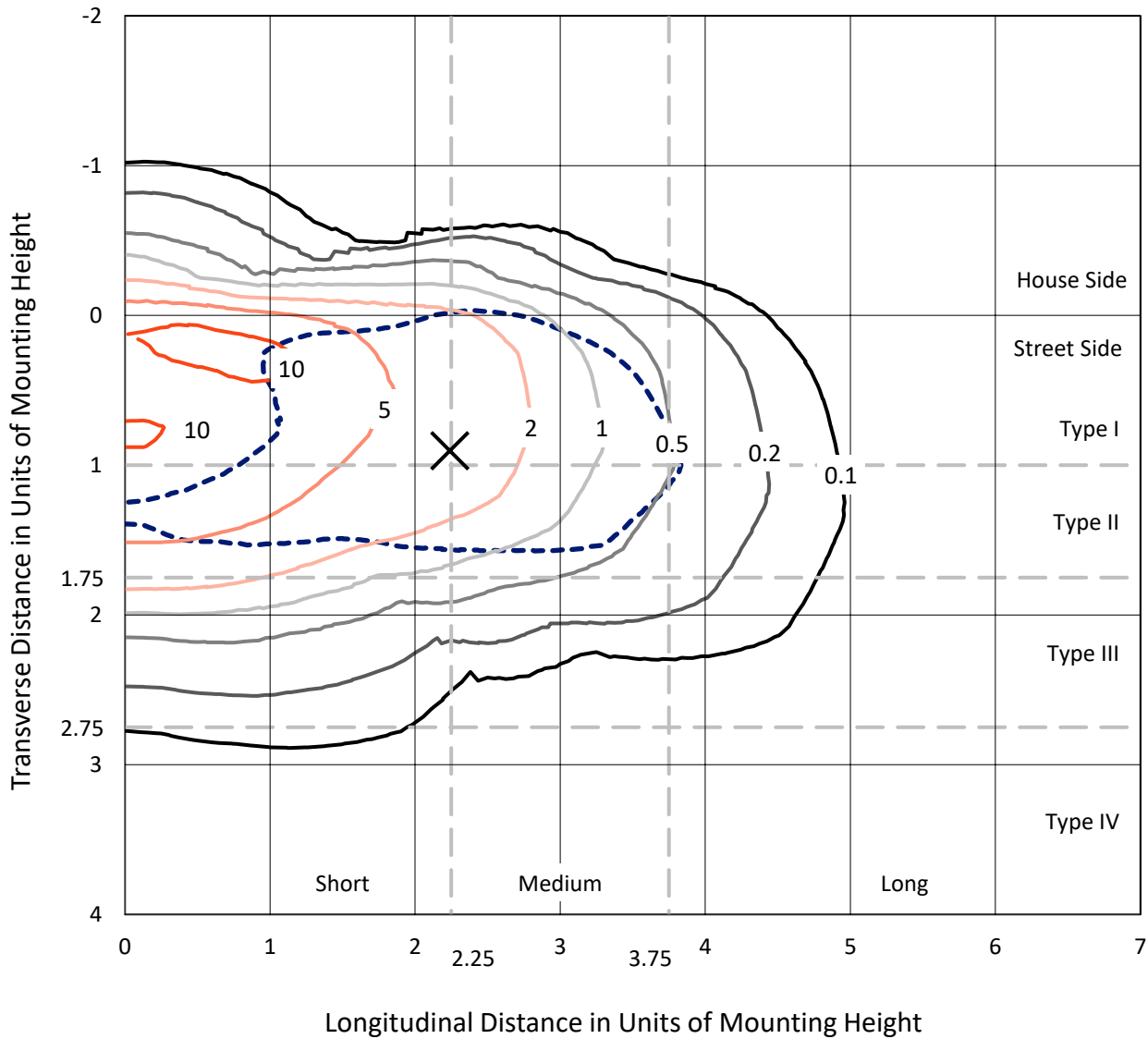
Lumens per Lamp: N/A  
Luminaire Lumens: 6366.9 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

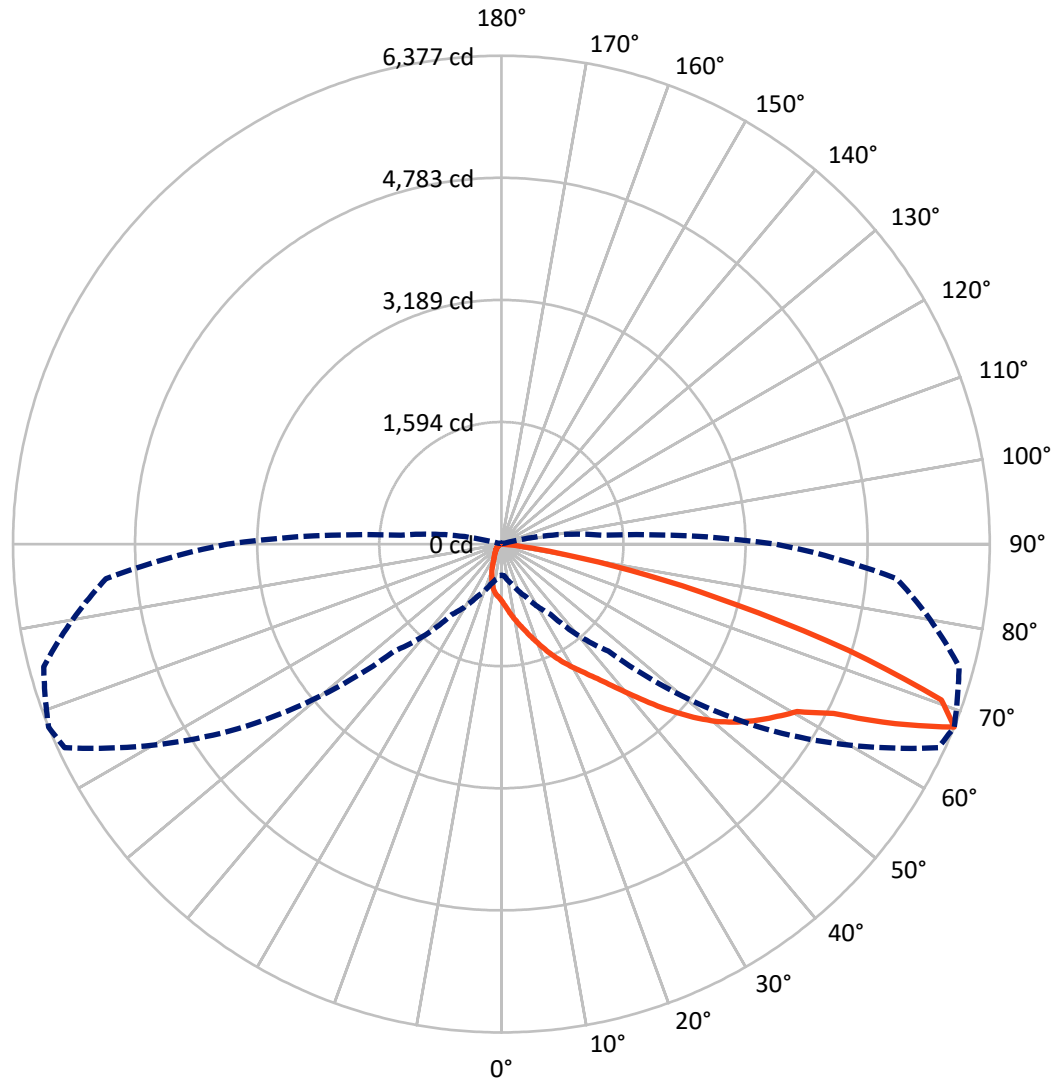
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	459.8	0.0	459.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	5907.1	0.0	5907.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	6366.9	0.0	6366.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	1.1
10°-20°	207.5	3.3
20°-30°	356.6	5.6
30°-40°	620.0	9.7
40°-50°	1081.9	17.0
50°-60°	1631.8	25.6
60°-70°	1636.3	25.7
70°-80°	721.9	11.3
80°-90°	38.6	0.6
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°	6366.9	100.0
0°-180°	6366.9	100.0

**Coefficient of Utilization**



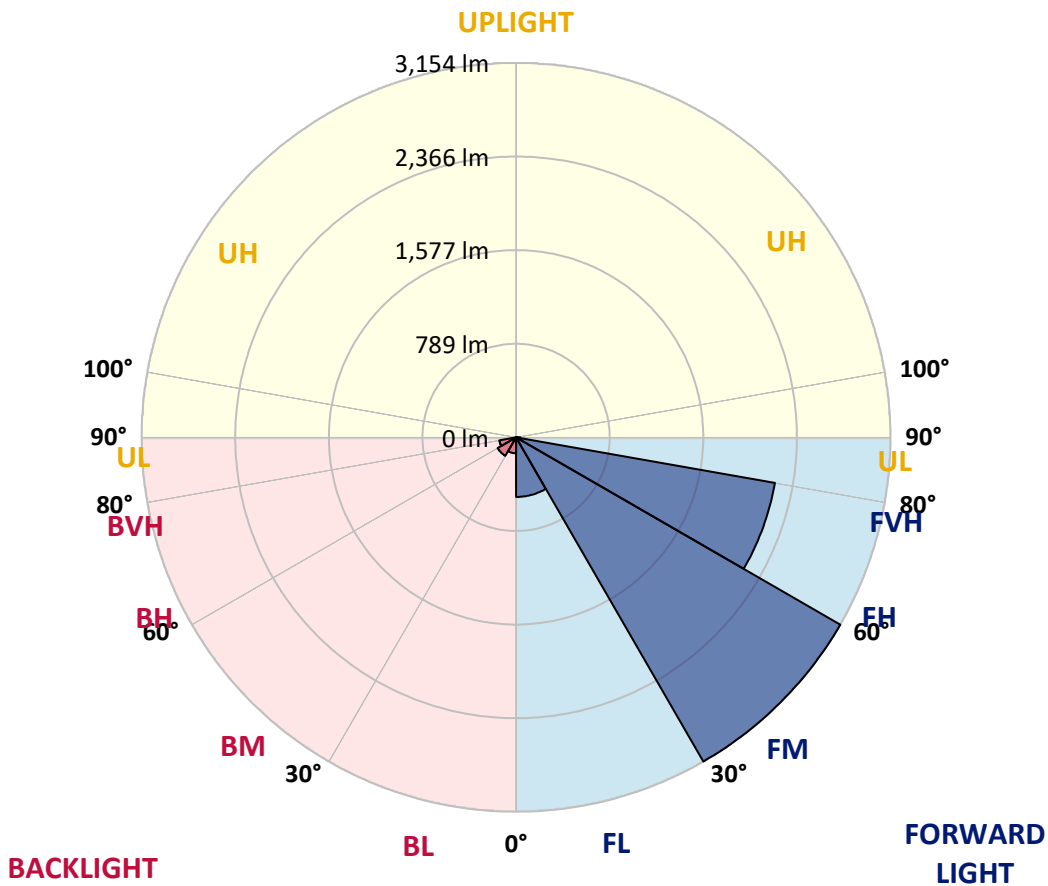
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.9	7.9			
FM (30°-60°)	3154.1	49.5			
FH (60°-80°)	2214.7	34.8			G2/5000
FVH (80°-90°)	36.4	0.6			G1/100
BL (0°-30°)	134.5	2.1	B1/500		
BM (30°-60°)	179.6	2.8	B0/220		
BH (60°-80°)	143.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	740.9	740.9	740.9	740.9	740.9	740.9	740.9	740.9	740.9	740.9	740.9
2.5°	862.8	868.3	862.8	864.0	848.2	840.9	825.0	803.1	797.6	783.6	762.3
5°	968.2	973.1	967.6	966.4	948.1	934.7	908.5	870.7	859.8	832.3	790.3
7.5°	1025.5	1028.5	1030.4	1033.4	1026.7	1015.8	992.0	945.1	933.5	889.0	829.9
10°	1031.6	1034.0	1043.2	1061.5	1074.9	1081.6	1068.2	1024.9	1006.6	963.4	878.7
12.5°	1014.5	1018.2	1032.8	1063.3	1100.4	1134.6	1143.1	1105.3	1088.9	1033.4	935.9
15°	992.0	995.0	1015.1	1056.6	1112.6	1175.4	1210.7	1194.3	1176.0	1118.1	999.3
17.5°	957.3	961.5	989.6	1045.6	1118.1	1207.7	1283.9	1289.3	1276.5	1213.8	1069.4
20°	937.8	940.8	965.8	1023.7	1114.5	1231.5	1352.1	1403.9	1389.9	1324.1	1149.8
22.5°	954.2	956.6	973.1	1018.2	1102.3	1244.9	1415.5	1518.5	1510.5	1442.3	1234.5
25°	1040.7	1048.7	1038.9	1046.8	1107.8	1252.2	1466.7	1633.0	1634.8	1566.0	1322.2
27.5°	1216.2	1205.9	1182.7	1143.1	1150.4	1271.7	1510.5	1740.9	1756.7	1686.6	1400.2
30°	1394.8	1388.7	1374.6	1313.1	1261.9	1314.9	1547.7	1851.1	1876.1	1805.4	1469.7
32.5°	1595.2	1601.3	1576.3	1502.6	1415.5	1402.7	1586.1	1955.9	2002.9	1940.1	1551.4
35°	1834.7	1836.5	1787.2	1705.5	1606.8	1547.7	1654.9	2071.7	2158.2	2111.9	1660.4
37.5°	2068.1	2079.0	2052.2	1923.7	1835.9	1728.1	1768.9	2220.4	2342.3	2324.0	1797.5
40°	2274.6	2291.7	2283.2	2158.9	2043.7	1952.9	1945.6	2394.7	2564.7	2585.4	1978.5
42.5°	2439.1	2450.1	2456.8	2368.5	2266.7	2215.5	2163.7	2597.0	2827.3	2912.0	2200.3
45°	2612.8	2616.5	2630.5	2570.8	2481.8	2486.1	2421.5	2842.5	3103.9	3273.9	2455.0
47.5°	2834.0	2846.2	2839.5	2776.7	2696.3	2744.4	2687.8	3095.4	3376.9	3660.2	2715.8
50°	3103.3	3116.1	3110.0	3036.9	2947.3	2967.4	2932.1	3341.0	3640.1	4024.6	2932.7
52.5°	3242.2	3252.6	3328.2	3361.1	3314.1	3186.2	3140.5	3610.9	3862.5	4324.4	3132.0
55°	3175.2	3182.5	3347.0	3486.0	3657.8	3529.8	3350.1	3819.3	4058.7	4558.4	3280.0
57.5°	2897.4	2937.0	3160.6	3395.8	3757.1	3869.2	3690.1	4046.0	4247.6	4721.1	3425.7
60°	2327.6	2325.8	2646.3	3068.6	3563.4	3962.5	4170.3	4352.4	4437.1	4846.0	3620.6
62.5°	1286.3	1297.9	1724.4	2280.7	3024.7	3721.2	4530.4	4882.0	4869.2	5064.1	3925.9
65°	640.4	663.6	895.1	1306.4	2012.6	3075.3	4592.5	5689.9	5653.4	5577.8	4556.6
67.5°	406.4	415.6	543.5	759.2	1118.7	1976.7	4205.6	6292.6	6377.2	6187.1	5182.4
70°	263.2	278.5	377.8	519.1	675.1	1018.8	3080.8	5902.0	6096.3	6120.1	4792.4
72.5°	143.2	154.2	241.3	370.5	487.5	509.4	1730.5	4429.2	4741.8	5191.5	3749.2
75°	81.7	89.6	132.2	251.7	357.7	310.1	767.1	2965.0	3164.3	3710.2	2686.5
77.5°	49.4	56.1	74.3	122.5	224.2	207.2	290.0	1804.8	1931.6	2213.7	1410.0
80°	22.5	26.8	46.9	67.6	122.5	98.1	110.9	841.5	868.9	908.5	466.7
82.5°	10.4	12.2	21.3	40.2	69.5	56.7	42.7	194.4	273.6	259.0	118.8
85°	1.2	1.2	7.9	16.5	19.5	14.6	17.7	43.9	55.4	78.0	34.1
87.5°	0.0	0.0	0.6	0.6	1.2	1.8	3.7	5.5	7.9	12.8	8.5
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°	740.9	740.9	740.9	740.9	740.9	740.9	740.9	740.9	740.9	740.9	740.9
2.5°	752.5	735.5	720.2	697.7	682.4	665.4	653.8	639.8	634.3	630.0	624.0
5°	769.6	742.2	705.0	663.6	629.4	597.1	567.3	547.8	530.7	528.3	519.8
7.5°	797.6	756.8	694.0	626.4	568.5	514.9	472.8	438.7	421.7	416.2	406.4
10°	834.8	778.7	677.6	574.0	490.5	426.5	379.0	340.6	313.8	304.1	296.7
12.5°	876.2	798.8	651.4	509.4	414.3	341.2	280.9	240.1	223.0	216.9	211.4
15°	923.7	817.7	609.9	444.8	340.0	251.0	208.4	190.7	183.4	181.6	179.8
17.5°	969.4	829.9	560.6	377.8	261.4	195.0	174.9	168.2	166.3	164.5	163.3
20°	1021.2	838.4	502.7	314.4	202.9	165.1	155.4	150.5	146.8	143.2	142.6
22.5°	1074.2	838.4	439.9	252.3	170.0	148.1	137.1	128.0	121.3	117.6	116.4
25°	1124.8	826.9	377.8	201.7	149.9	131.6	117.6	107.2	98.1	93.8	92.6
27.5°	1160.8	797.0	323.6	170.6	135.9	117.0	99.9	88.4	81.0	76.8	76.2
30°	1183.3	752.5	273.6	152.3	123.7	101.8	84.7	74.9	69.5	66.4	65.2
32.5°	1200.4	697.7	229.1	139.5	112.1	88.4	73.7	65.8	60.9	58.5	57.9
35°	1234.5	645.9	196.2	128.0	99.9	77.4	64.6	58.5	54.8	51.8	51.2
37.5°	1282.0	602.6	170.0	117.6	88.4	68.9	58.5	53.0	50.0	46.9	46.3
40°	1352.1	575.2	150.5	107.2	78.0	62.2	53.6	48.7	44.5	41.4	40.8
42.5°	1460.0	562.4	137.7	96.9	68.9	56.1	49.4	43.3	39.0	36.0	35.3
45°	1588.5	569.1	126.7	86.5	62.8	51.8	43.9	37.8	33.5	30.5	29.9
47.5°	1726.2	592.9	117.6	76.8	56.7	47.5	39.0	32.3	28.6	25.6	25.0
50°	1870.0	631.9	109.7	67.6	51.8	42.7	33.5	28.0	24.4	21.9	21.3
52.5°	1994.9	684.9	101.8	60.9	47.5	37.8	29.2	24.4	20.7	18.3	17.7
55°	2114.4	734.9	95.7	54.8	42.7	32.9	25.6	20.7	17.7	15.2	14.6
57.5°	2244.2	787.9	88.4	49.4	38.4	29.2	22.5	17.7	15.2	12.8	12.2
60°	2433.1	866.5	77.4	45.1	33.5	25.6	19.5	15.8	13.4	10.4	9.7
62.5°	2705.4	1009.7	65.2	39.0	28.6	21.9	16.5	13.4	11.0	8.5	7.3
65°	3214.8	1253.4	53.6	32.3	23.2	18.3	14.0	11.0	8.5	6.1	5.5
67.5°	3581.6	1316.8	43.3	26.2	18.9	14.0	11.6	8.5	6.1	4.3	3.7
70°	3131.3	945.7	33.5	21.3	15.8	11.0	9.1	6.7	4.3	3.0	2.4
72.5°	2359.3	617.9	25.0	16.5	12.2	9.1	6.7	5.5	3.7	2.4	1.8
75°	1662.9	357.1	18.3	12.2	8.5	6.7	5.5	4.3	3.0	1.8	1.8
77.5°	852.5	147.5	12.8	8.5	6.1	4.3	3.7	2.4	2.4	1.8	1.2
80°	259.0	48.7	7.3	5.5	4.3	3.0	1.8	1.8	1.8	1.2	0.6
82.5°	59.1	15.8	4.3	4.3	3.0	2.4	1.8	0.6	0.6	0.0	0.0
85°	15.2	4.9	3.7	3.0	3.0	2.4	1.2	0.6	0.0	0.0	0.0
87.5°	5.5	3.0	3.0	3.0	2.4	1.8	1.2	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)