

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: P630337

Luminaire Tested: GWS-SA1D-740-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-740-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

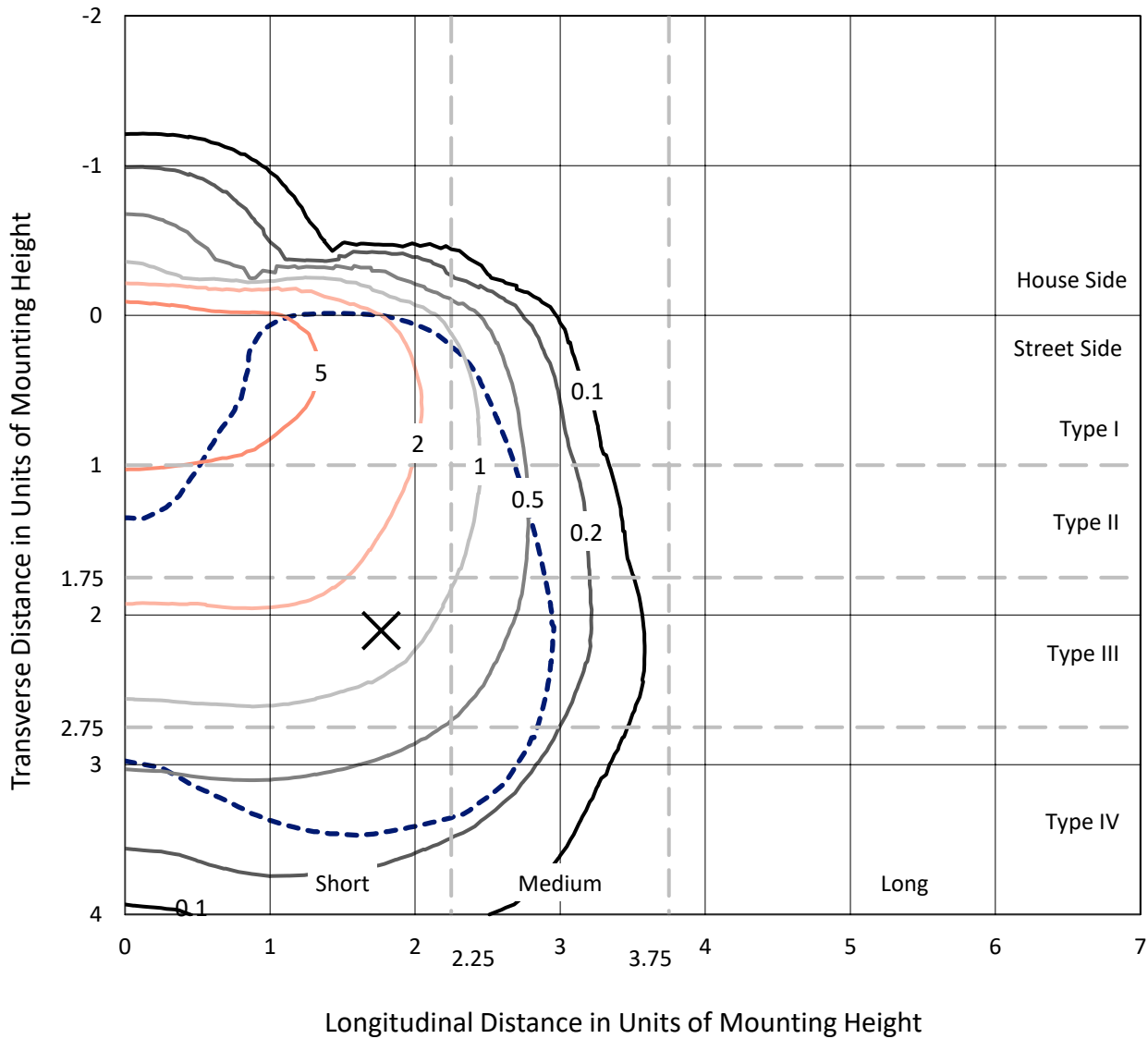
Lumens per Lamp: N/A  
Luminaire Lumens: 4777.7 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

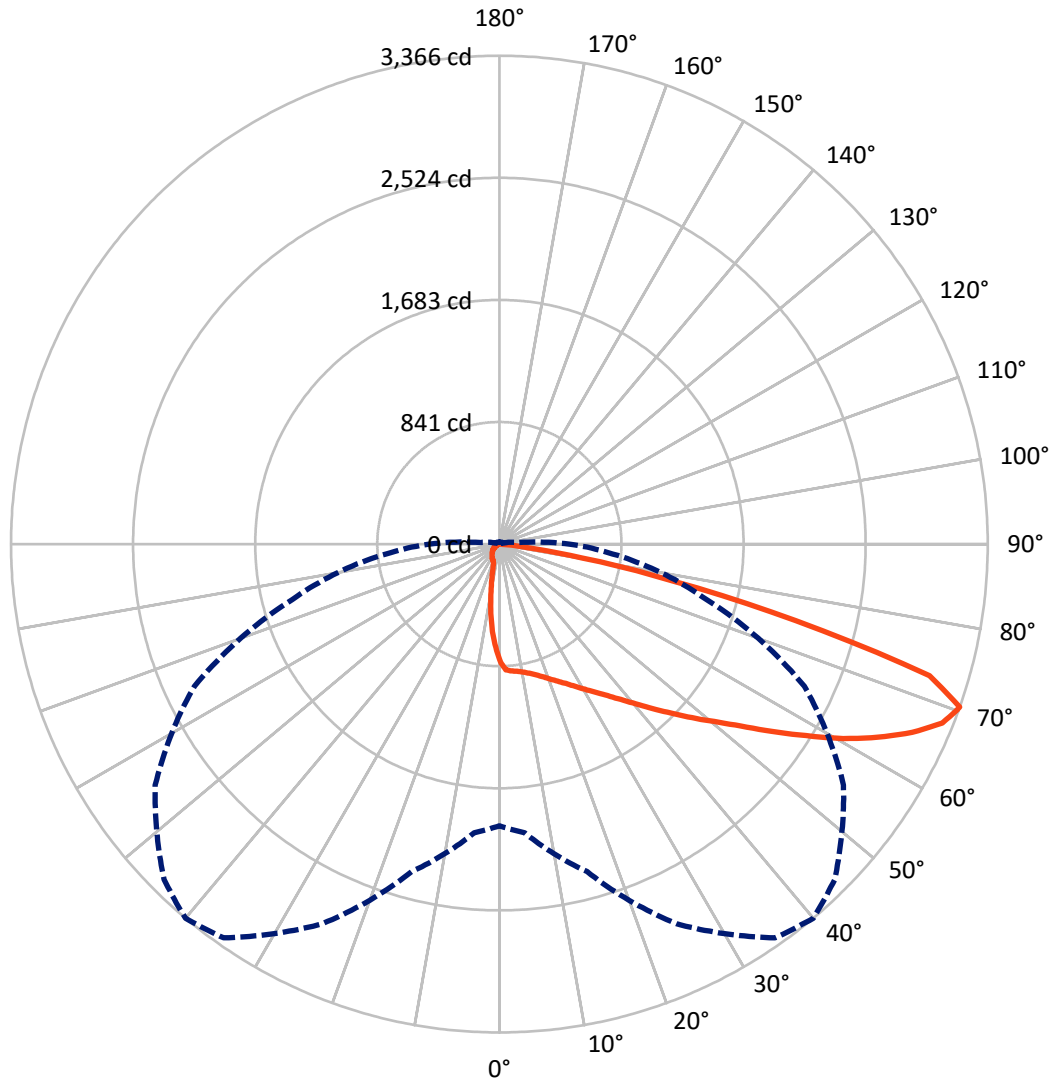
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	390.7	0.0	390.7
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	4387.0	0.0	4387.0
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	4777.7	0.0	4777.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	1.4
10°-20°	173.8	3.6
20°-30°	290.9	6.1
30°-40°	456.8	9.6
40°-50°	722.6	15.1
50°-60°	1054.1	22.1
60°-70°	1306.7	27.3
70°-80°	661.1	13.8
80°-90°	43.2	0.9
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°	4777.7	100.0
0°-180°	4777.7	100.0

**Coefficient of Utilization**

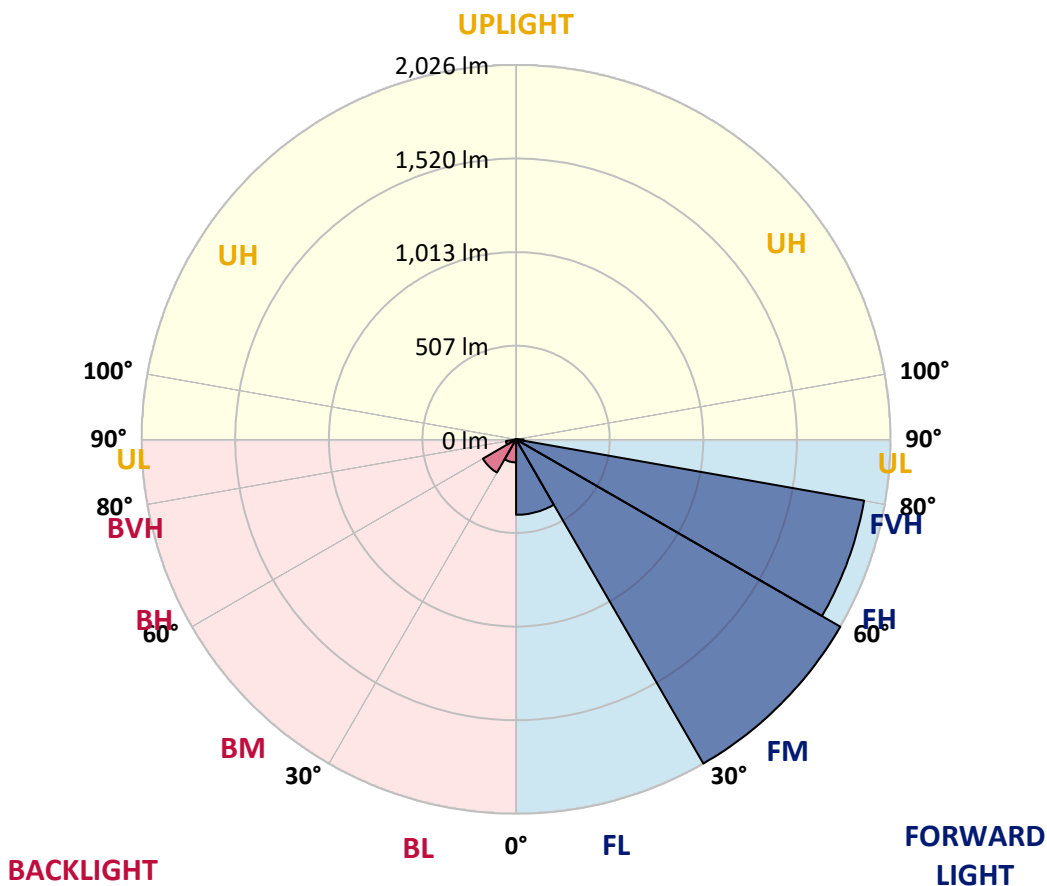


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.4	8.5			
FM (30°-60°)	2026.2	42.4			
FH (60°-80°)	1912.1	40.0			G2/5000
FVH (80°-90°)	40.3	0.8			G1/100
BL (0°-30°)	124.8	2.6	B1/500		
BM (30°-60°)	207.4	4.3	B0/220		
BH (60°-80°)	55.7	1.2	B0/110		G0/110
BVH (80°-90°)	2.9	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7
2.5°	871.6	874.6	874.2	875.5	872.4	867.7	866.8	860.3	848.5	833.8	817.2
5°	889.4	892.9	890.3	889.0	883.3	878.1	876.8	869.8	856.4	836.4	807.7
7.5°	904.6	905.5	903.7	900.7	892.4	885.5	880.7	871.1	855.1	835.1	802.0
10°	907.2	906.8	907.7	908.1	902.9	896.8	892.9	879.8	859.4	838.1	802.5
12.5°	904.2	904.2	909.8	916.4	916.4	913.3	909.4	897.7	873.8	848.5	811.2
15°	908.1	909.4	920.3	932.4	936.3	933.3	931.6	919.4	894.6	866.8	826.8
17.5°	922.0	923.3	940.7	959.0	963.7	960.3	956.8	944.6	918.1	887.7	844.6
20°	942.4	945.9	968.1	991.6	995.9	991.6	984.6	967.6	941.1	910.3	861.6
22.5°	979.8	982.0	1005.9	1030.7	1032.9	1025.9	1015.5	992.0	964.2	934.2	880.7
25°	1029.4	1032.4	1056.3	1080.2	1074.6	1064.1	1049.8	1023.3	991.6	962.4	905.0
27.5°	1088.5	1092.0	1115.4	1136.3	1121.5	1109.4	1093.3	1060.2	1028.1	1001.6	936.3
30°	1152.4	1155.4	1176.3	1195.0	1175.4	1161.1	1142.0	1108.1	1075.5	1055.5	980.7
32.5°	1214.1	1213.7	1233.7	1248.9	1228.9	1217.6	1200.2	1165.9	1139.8	1131.1	1046.8
35°	1271.5	1271.5	1288.0	1303.2	1288.9	1282.8	1266.7	1239.3	1224.6	1235.0	1135.0
37.5°	1329.3	1326.3	1341.9	1358.9	1357.6	1358.0	1348.9	1335.8	1336.7	1373.7	1256.3
40°	1377.1	1375.8	1394.1	1416.3	1433.6	1447.6	1441.9	1446.7	1474.1	1543.2	1411.5
42.5°	1415.4	1418.4	1441.9	1477.1	1521.0	1549.3	1553.2	1572.8	1643.2	1750.1	1586.7
45°	1459.3	1459.7	1492.3	1546.2	1616.2	1661.0	1676.6	1727.1	1827.1	1964.9	1778.8
47.5°	1513.2	1508.0	1544.5	1620.1	1721.4	1787.5	1815.3	1878.3	2033.1	2174.4	1935.3
50°	1572.8	1563.2	1604.5	1707.5	1839.2	1921.8	1978.3	2070.5	2237.4	2346.5	2051.8
52.5°	1641.9	1632.7	1679.7	1807.9	1980.5	2080.9	2153.5	2246.5	2412.6	2477.8	2121.3
55°	1729.7	1720.5	1770.1	1928.3	2147.4	2277.8	2353.9	2432.2	2575.6	2574.7	2171.8
57.5°	1827.1	1814.4	1883.1	2080.5	2355.6	2491.3	2568.7	2606.9	2699.5	2649.9	2205.7
60°	1938.8	1927.5	2022.7	2261.8	2596.0	2721.7	2770.4	2754.7	2801.2	2694.3	2193.9
62.5°	2039.6	2034.4	2152.6	2453.9	2825.1	2931.2	2944.7	2876.4	2876.0	2695.1	2114.8
65°	2144.4	2154.4	2330.0	2675.2	3055.5	3126.8	3103.8	2997.3	2906.0	2588.6	1881.0
67.5°	2183.5	2212.6	2446.9	2875.1	3237.2	3292.9	3252.4	3057.7	2781.2	2230.5	1432.3
70°	1941.8	1996.6	2336.5	2886.4	3312.4	3365.5	3268.5	2895.1	2318.7	1477.6	784.6
72.5°	1476.7	1540.6	1947.0	2363.5	2979.0	3099.9	2934.2	2358.7	1494.5	647.3	263.4
75°	826.4	895.5	1450.2	1779.7	2000.1	2110.5	2049.6	1513.2	662.1	169.1	78.7
77.5°	279.5	302.6	674.7	1101.1	1320.2	1221.1	1033.7	751.6	243.4	64.3	41.7
80°	165.6	174.3	251.3	548.2	694.7	576.0	454.7	277.8	123.9	34.3	29.1
82.5°	49.6	58.7	138.7	203.4	272.1	169.5	143.5	158.7	64.3	18.7	24.3
85°	0.0	0.0	29.6	63.0	71.3	27.8	27.8	90.0	11.7	7.8	17.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.2	1.3	1.7	3.9
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°	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7	810.7
2.5°	805.5	790.3	772.5	755.5	739.4	718.6	708.6	696.4	686.0	680.3	683.4
5°	789.4	765.5	729.0	692.0	654.7	619.4	587.7	566.4	547.3	537.3	539.5
7.5°	775.5	743.3	686.4	626.0	566.0	505.6	456.4	418.2	388.6	376.5	374.3
10°	769.4	729.0	648.6	561.6	469.5	388.2	318.6	276.5	246.5	231.7	234.3
12.5°	772.5	721.6	616.4	498.6	379.1	284.3	217.8	178.2	156.9	148.2	146.1
15°	781.2	719.9	587.7	434.3	292.6	198.7	150.4	134.3	130.0	129.1	129.1
17.5°	791.2	720.3	558.2	369.1	222.1	147.4	128.7	125.6	124.3	123.5	123.9
20°	801.2	720.3	524.3	303.0	166.9	127.4	122.6	120.4	119.1	118.7	118.7
22.5°	813.3	720.3	486.4	241.7	133.9	120.8	116.9	115.6	114.3	113.9	113.5
25°	828.1	720.7	444.7	189.1	121.7	115.2	112.2	110.8	109.5	108.7	108.7
27.5°	849.4	724.2	398.6	147.4	114.8	110.0	107.4	106.1	104.8	103.5	103.5
30°	880.3	732.9	346.9	121.7	108.2	104.3	101.7	100.9	99.5	98.2	97.8
32.5°	926.3	748.1	293.4	109.1	102.2	98.2	95.2	94.3	93.0	91.7	91.3
35°	990.7	775.9	241.3	101.3	94.3	90.4	88.7	88.2	86.5	85.2	85.2
37.5°	1085.0	821.2	191.3	93.5	87.8	84.8	82.6	81.7	80.0	78.7	78.2
40°	1200.2	879.8	148.7	87.4	81.7	78.7	76.5	75.2	73.0	71.3	70.4
42.5°	1347.1	951.6	117.4	80.9	76.1	73.0	71.3	68.7	65.6	63.0	62.6
45°	1500.2	1025.5	96.9	74.8	70.9	68.2	66.1	62.6	58.3	55.2	54.3
47.5°	1617.5	1071.5	84.8	68.2	65.2	63.0	60.4	56.1	50.9	47.4	46.5
50°	1701.4	1078.5	75.6	62.2	60.4	58.3	54.3	49.1	43.5	40.0	39.1
52.5°	1742.7	1047.2	68.2	56.5	55.2	53.0	48.3	42.6	36.5	33.0	32.2
55°	1761.4	988.1	61.3	51.7	50.0	47.4	42.2	36.1	30.0	27.0	26.1
57.5°	1754.0	900.7	55.2	46.9	44.8	41.7	36.1	29.6	24.8	21.7	21.3
60°	1699.2	778.1	49.1	42.2	39.6	36.1	30.4	24.3	20.0	17.8	17.4
62.5°	1581.0	626.0	43.0	36.5	34.8	31.3	26.1	20.0	16.5	15.2	14.8
65°	1338.9	442.5	36.9	30.9	30.0	26.5	21.7	16.5	14.3	13.5	13.0
67.5°	962.4	269.1	31.3	26.5	25.6	22.6	18.3	14.3	13.0	12.6	12.6
70°	483.8	127.4	24.8	21.7	21.7	18.7	15.6	13.0	12.6	12.2	12.2
72.5°	164.3	54.3	18.7	17.0	17.8	16.1	13.5	12.2	12.2	12.2	12.2
75°	56.1	28.7	13.0	12.2	13.0	13.0	11.7	11.7	12.2	12.2	12.2
77.5°	36.5	19.1	9.1	8.3	10.0	10.0	10.0	10.9	11.7	11.7	11.7
80°	30.0	10.4	6.1	5.7	7.4	7.4	8.3	10.0	10.9	10.9	10.9
82.5°	25.6	6.5	3.5	3.9	5.2	5.7	7.0	8.3	9.6	10.0	10.0
85°	17.4	3.5	2.6	3.0	3.5	4.3	5.7	7.0	7.8	8.7	8.7
87.5°	4.8	1.3	1.7	2.2	2.2	3.0	4.3	5.2	6.1	6.5	6.5
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)