

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: P630299

Luminaire Tested: GWS-SA1D-735-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-735-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

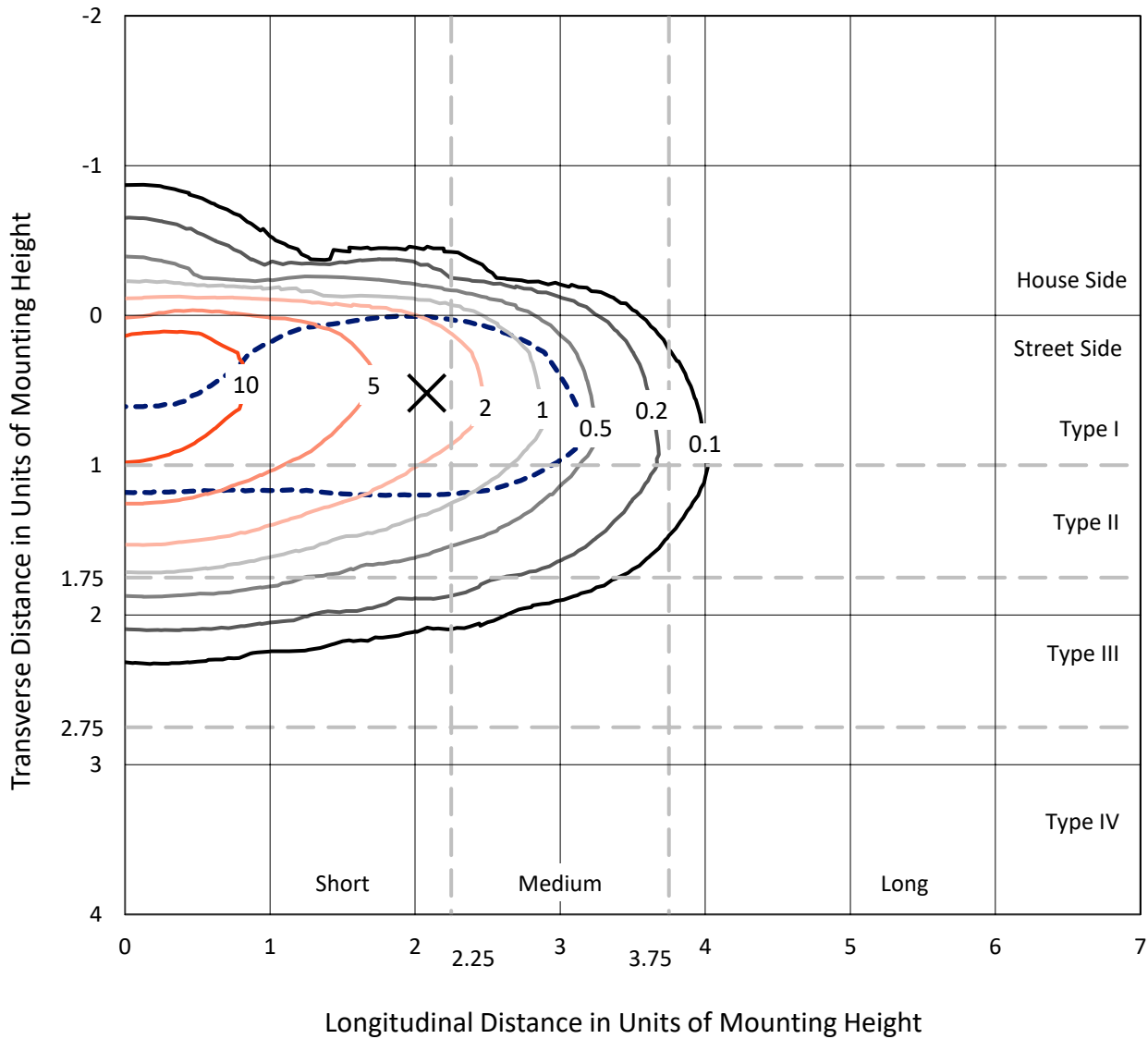
Lumens per Lamp: N/A  
Luminaire Lumens: 4823.3 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

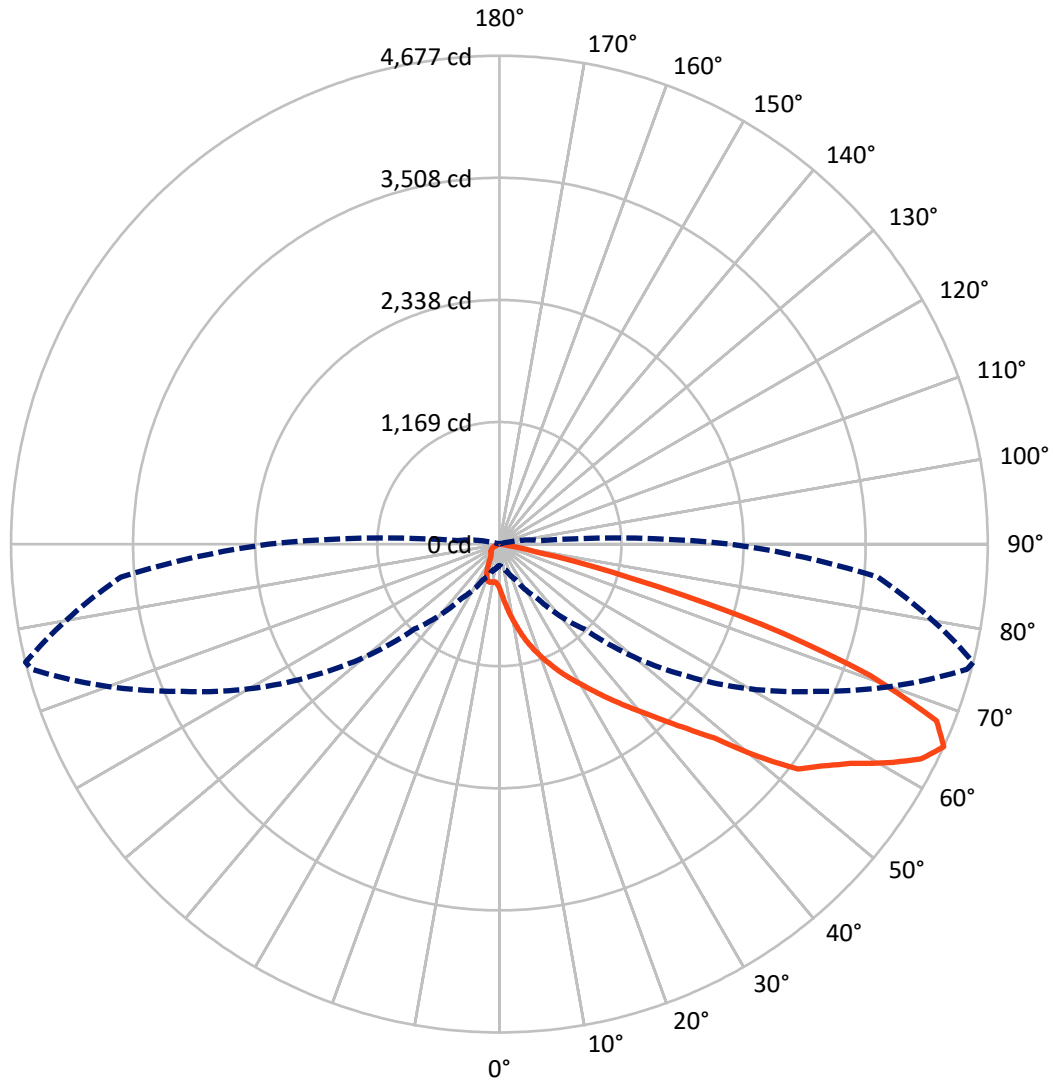
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	266.7	0.0	266.7
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	4556.6	0.0	4556.6
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	4823.3	0.0	4823.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	1.1
10°-20°	197.1	4.1
20°-30°	402.2	8.3
30°-40°	715.3	14.8
40°-50°	1057.3	21.9
50°-60°	1210.6	25.1
60°-70°	923.6	19.1
70°-80°	258.7	5.4
80°-90°	6.5	0.1
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°	4823.3	100.0
0°-180°	4823.3	100.0

**Coefficient of Utilization**



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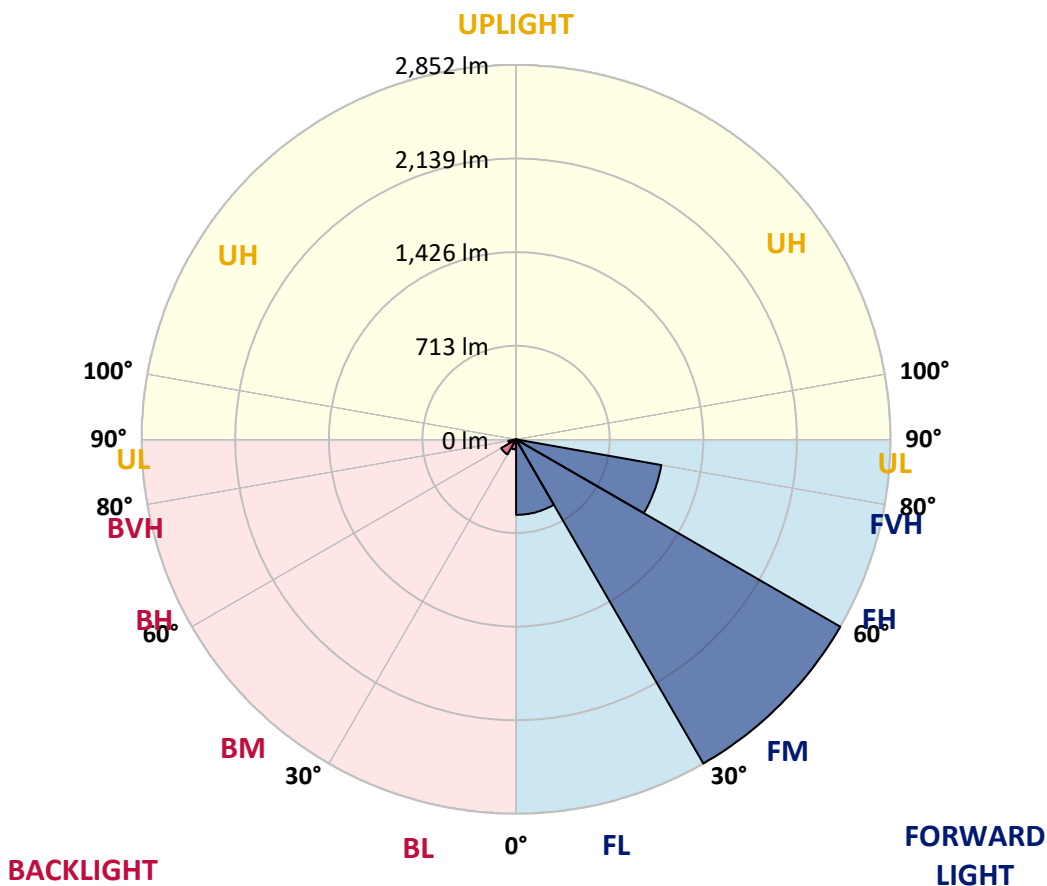
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.1	11.9			
FM (30°-60°)	2851.6	59.1			
FH (60°-80°)	1123.7	23.3			G1/1800
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	76.1	1.6	B0/110		
BM (30°-60°)	131.6	2.7	B0/220		
BH (60°-80°)	58.6	1.2	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: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	427.0	427.0	427.0	427.0	427.0	427.0	427.0	427.0	427.0	427.0	427.0
2.5°	658.1	668.0	660.3	647.4	622.5	598.5	567.7	525.2	491.4	487.1	455.3
5°	888.8	887.9	871.2	854.5	828.4	787.2	725.0	646.1	570.2	563.8	492.6
7.5°	1026.0	1027.3	1017.9	1005.0	979.3	936.8	872.1	776.9	665.9	653.0	543.7
10°	1141.3	1140.9	1134.1	1128.0	1104.9	1076.6	1007.1	902.5	768.8	748.6	600.7
12.5°	1227.9	1230.9	1234.4	1240.4	1230.5	1202.7	1137.1	1023.0	872.9	850.6	665.9
15°	1296.5	1297.4	1310.3	1333.4	1341.6	1327.0	1267.4	1139.6	975.8	956.5	740.9
17.5°	1317.1	1318.8	1340.7	1383.2	1426.0	1434.2	1389.2	1257.1	1077.0	1056.4	813.8
20°	1360.4	1364.3	1380.6	1417.9	1471.9	1515.6	1498.1	1375.9	1178.2	1151.2	888.4
22.5°	1496.8	1498.9	1493.3	1498.1	1525.9	1576.5	1587.2	1490.8	1282.0	1253.2	969.0
25°	1731.3	1732.2	1693.1	1656.3	1635.3	1644.7	1668.3	1596.7	1384.9	1356.6	1044.0
27.5°	1974.8	1977.8	1931.1	1868.5	1793.5	1750.6	1743.7	1693.6	1488.6	1457.3	1118.2
30°	2204.2	2204.2	2154.9	2078.6	1978.3	1894.7	1845.4	1791.3	1599.7	1565.4	1194.1
32.5°	2410.4	2408.7	2345.7	2263.0	2163.9	2072.2	1968.4	1893.4	1723.2	1685.0	1281.5
35°	2580.7	2576.4	2504.8	2425.5	2319.6	2251.4	2135.6	2003.1	1856.9	1818.8	1371.6
37.5°	2709.3	2704.6	2639.0	2554.9	2456.8	2412.6	2315.7	2134.8	1998.0	1963.3	1471.5
40°	2779.2	2769.7	2724.3	2661.7	2579.4	2540.8	2500.5	2298.1	2163.9	2120.6	1589.4
42.5°	2799.8	2788.6	2758.6	2729.4	2679.7	2649.3	2692.6	2482.5	2346.1	2308.8	1724.0
45°	2738.9	2732.4	2729.9	2750.9	2759.9	2768.5	2875.2	2686.6	2547.2	2518.9	1893.4
47.5°	2592.2	2590.5	2613.2	2700.7	2795.9	2886.4	3073.7	2938.2	2807.9	2777.5	2130.0
50°	2321.3	2338.8	2402.3	2555.8	2746.2	2953.3	3259.4	3287.2	3229.8	3185.2	2438.7
52.5°	1897.7	1931.5	2073.9	2307.1	2580.7	2934.4	3345.1	3566.8	3625.5	3579.2	2660.0
55°	1489.1	1520.8	1647.7	1943.5	2308.4	2790.8	3349.0	3663.3	3791.5	3748.6	2809.6
57.5°	1109.2	1138.3	1253.7	1536.7	1938.0	2508.2	3257.2	3716.9	3988.3	3960.8	3045.9
60°	725.0	753.7	857.9	1105.3	1503.2	2096.6	3031.3	3705.7	4256.2	4253.7	3336.1
62.5°	402.2	424.9	500.4	693.3	1049.2	1623.7	2676.3	3593.8	4515.6	4531.9	3575.4
65°	205.8	220.4	266.3	381.2	635.0	1151.2	2209.4	3337.4	4635.7	4676.8	3638.4
67.5°	134.6	139.3	150.5	198.1	340.0	724.2	1662.7	2926.2	4466.7	4514.8	3427.0
70°	109.3	113.2	119.6	132.1	175.4	384.6	1092.0	2337.1	3732.3	3764.9	2729.0
72.5°	80.2	85.3	97.8	105.9	126.5	210.9	568.1	1534.1	2563.1	2620.5	1715.0
75°	59.2	62.2	72.5	83.6	103.3	133.3	217.4	806.5	1323.6	1290.1	720.3
77.5°	35.6	37.7	46.3	53.6	73.7	83.2	75.9	298.0	402.6	378.6	174.1
80°	17.6	19.7	30.4	40.3	47.2	33.4	31.7	83.2	89.6	89.6	43.7
82.5°	6.0	7.7	16.3	26.6	23.2	12.9	15.0	21.4	24.0	25.3	12.9
85°	0.0	0.0	3.9	7.7	3.4	1.7	3.9	4.7	6.0	6.4	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.7	1.7
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°	427.0	427.0	427.0	427.0	427.0	427.0	427.0	427.0	427.0	427.0	427.0
2.5°	438.2	418.0	387.6	360.2	339.1	319.4	304.4	292.4	290.3	283.4	284.3
5°	457.9	421.5	365.3	322.0	291.6	271.0	253.8	241.0	235.4	229.8	225.5
7.5°	488.3	435.6	356.7	304.0	268.4	236.7	210.1	188.7	178.4	171.9	167.6
10°	525.7	455.3	357.2	293.3	240.5	192.1	155.6	132.1	120.9	117.5	117.0
12.5°	570.2	480.2	360.6	275.7	200.2	142.8	115.3	104.6	101.2	98.2	98.2
15°	617.4	508.1	360.6	243.5	152.6	111.5	99.9	93.0	88.8	87.0	86.2
17.5°	667.1	534.2	352.0	199.4	117.0	98.2	88.8	82.3	78.9	76.3	75.5
20°	720.3	559.1	330.6	152.6	100.3	87.9	78.9	72.5	69.0	66.5	66.5
22.5°	774.3	582.2	295.8	117.5	88.8	78.0	69.5	63.5	60.0	57.5	57.5
25°	824.5	597.7	251.2	96.9	80.2	69.5	61.7	55.7	51.9	50.2	49.3
27.5°	871.2	607.5	201.9	85.3	72.0	62.2	54.0	48.4	45.4	44.2	43.3
30°	919.7	610.1	154.4	77.6	65.2	54.9	47.2	42.9	40.3	38.6	38.6
32.5°	966.8	607.1	117.9	71.2	59.2	48.4	42.0	38.2	36.0	34.7	34.3
35°	1014.9	593.4	95.6	65.6	53.2	42.4	37.3	34.3	33.0	31.3	31.3
37.5°	1067.2	575.0	83.2	60.0	47.2	38.2	33.4	31.3	29.6	28.3	27.9
40°	1132.3	553.5	76.3	55.3	41.6	34.3	30.0	27.9	26.6	25.3	24.9
42.5°	1209.5	532.5	72.9	50.2	37.3	30.4	27.0	24.4	23.2	21.4	21.0
45°	1318.8	527.8	69.0	44.6	33.4	27.4	23.6	21.0	19.3	18.0	17.6
47.5°	1494.6	541.1	62.6	38.6	29.6	24.0	20.2	18.0	15.9	14.6	13.7
50°	1669.1	537.7	56.2	33.4	26.2	20.6	17.2	15.0	12.9	11.6	11.1
52.5°	1764.3	521.4	50.2	29.6	22.7	17.6	14.6	12.0	10.7	9.4	9.0
55°	1850.5	514.9	44.2	25.7	19.3	15.4	12.0	9.9	9.0	7.7	7.3
57.5°	2019.4	529.9	39.0	22.3	16.7	13.3	10.3	8.1	7.3	6.0	5.6
60°	2196.1	531.7	33.4	19.3	14.6	11.1	8.1	6.4	5.6	4.3	3.9
62.5°	2288.3	488.3	27.4	16.3	12.0	9.4	6.9	5.1	4.3	2.6	2.6
65°	2211.1	394.9	23.2	13.3	9.4	7.3	5.1	3.9	2.6	1.3	0.4
67.5°	1956.8	280.8	19.3	10.7	6.9	5.1	3.9	2.6	0.4	0.0	0.0
70°	1432.9	160.4	15.0	7.7	5.1	3.4	2.6	1.3	0.0	0.0	0.0
72.5°	880.7	85.8	11.1	5.1	3.9	2.6	2.1	0.9	0.0	0.0	0.0
75°	334.0	41.2	6.9	3.4	3.0	2.1	1.3	0.4	0.0	0.0	0.0
77.5°	90.5	20.2	3.9	2.6	2.1	1.3	0.9	0.0	0.0	0.0	0.0
80°	23.6	9.4	2.6	1.7	1.3	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	8.1	4.3	1.3	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.7	0.9	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.4	0.4	0.4	0.4	0.0	0.0	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)