

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: P630464

Luminaire Tested: GWS-SA1D-760-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630464  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

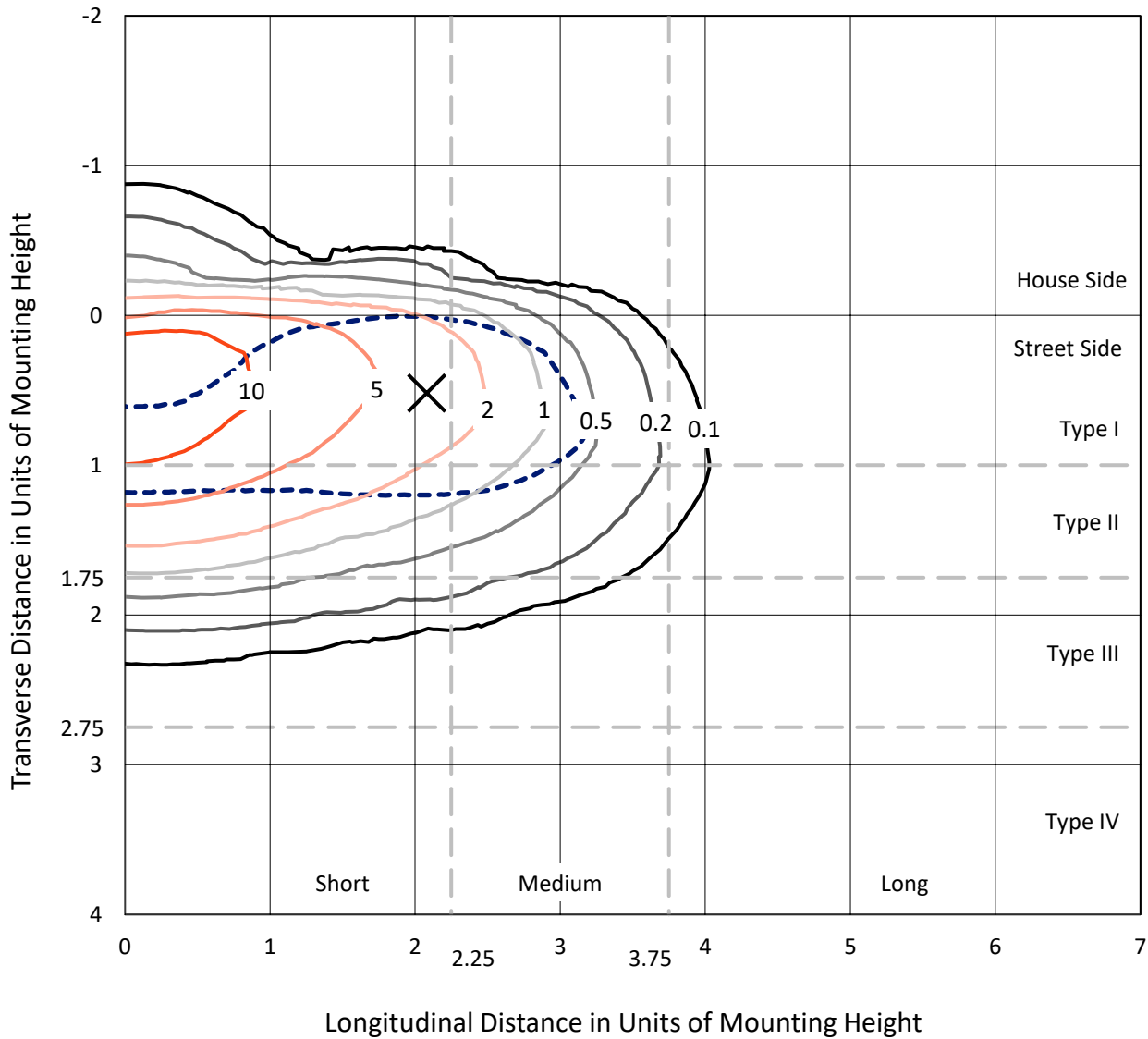
Lumens per Lamp: N/A  
Luminaire Lumens: 4933.8 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

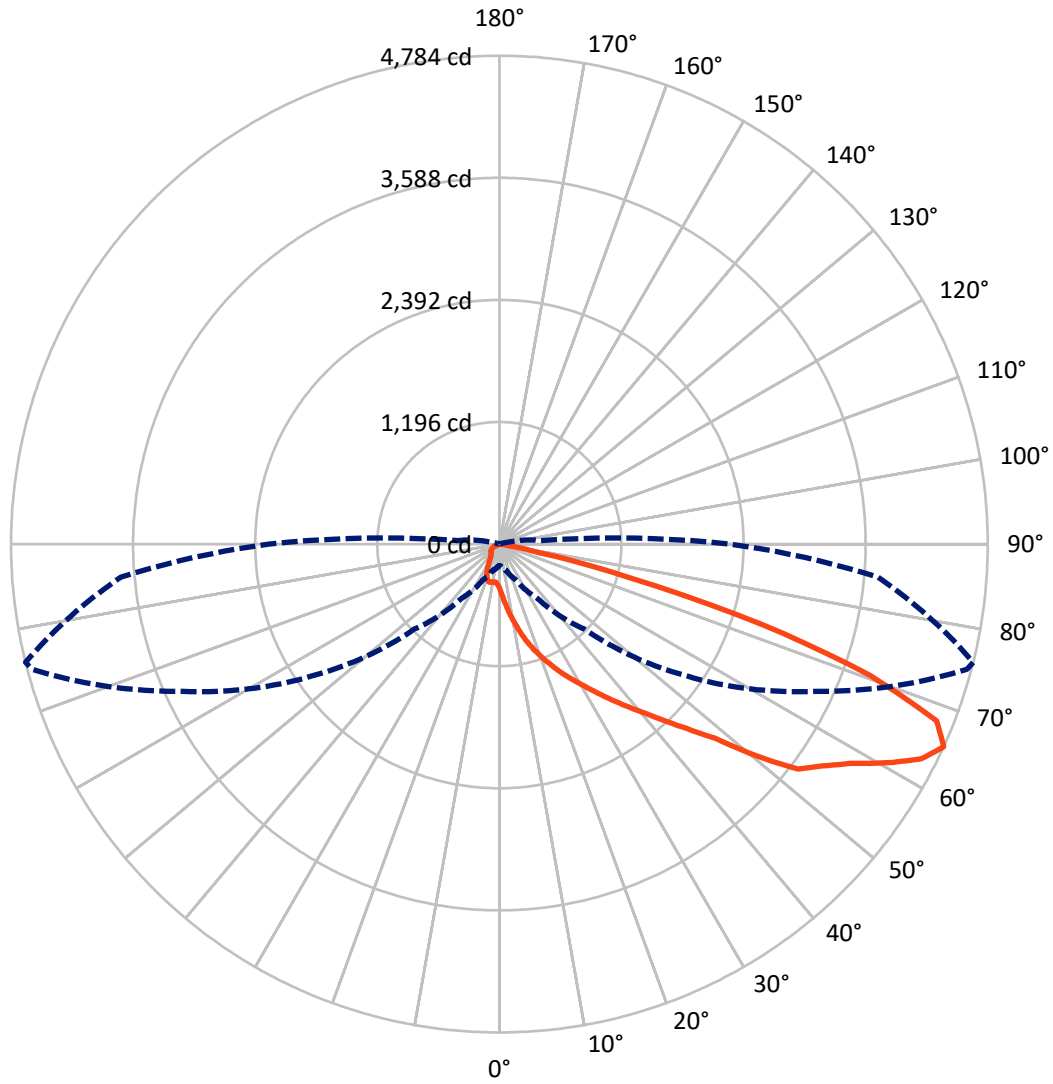
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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	272.8	0.0	272.8
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	4661.0	0.0	4661.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	4933.8	0.0	4933.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	1.1
10°-20°	201.6	4.1
20°-30°	411.4	8.3
30°-40°	731.7	14.8
40°-50°	1081.6	21.9
50°-60°	1238.3	25.1
60°-70°	944.8	19.1
70°-80°	264.7	5.4
80°-90°	6.7	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°	4933.8	100.0
0°-180°	4933.8	100.0

**Coefficient of Utilization**



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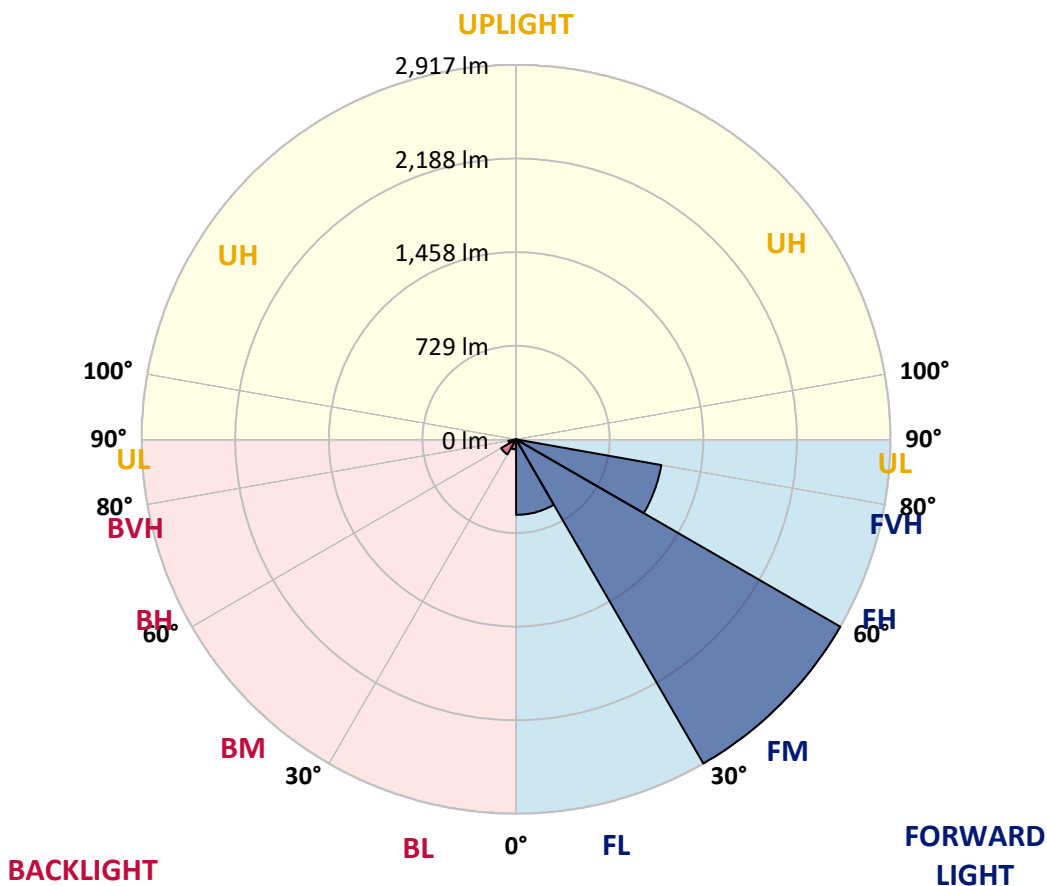
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.3	11.9			
FM (30°-60°)	2916.9	59.1			
FH (60°-80°)	1149.5	23.3			G1/1800
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	77.8	1.6	B0/110		
BM (30°-60°)	134.6	2.7	B0/220		
BH (60°-80°)	60.0	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°	436.8	436.8	436.8	436.8	436.8	436.8	436.8	436.8	436.8	436.8	436.8
2.5°	673.2	683.3	675.4	662.2	636.8	612.3	580.7	537.3	502.6	498.2	465.8
5°	909.2	908.3	891.2	874.1	847.3	805.2	741.6	660.9	583.3	576.7	503.9
7.5°	1049.5	1050.8	1041.2	1028.0	1001.7	958.3	892.1	794.7	681.1	668.0	556.1
10°	1167.5	1167.0	1160.0	1153.9	1130.2	1101.3	1030.2	923.2	786.4	765.8	614.4
12.5°	1256.1	1259.2	1262.7	1268.8	1258.7	1230.2	1163.1	1046.4	892.9	870.1	681.1
15°	1326.3	1327.1	1340.3	1364.0	1372.3	1357.4	1296.4	1165.7	998.2	978.5	757.9
17.5°	1347.3	1349.1	1371.4	1414.8	1458.7	1467.0	1421.0	1285.9	1101.7	1080.7	832.4
20°	1391.6	1395.5	1412.2	1450.4	1505.6	1550.4	1532.4	1407.4	1205.2	1177.6	908.7
22.5°	1531.1	1533.3	1527.6	1532.4	1560.9	1612.6	1623.6	1524.9	1311.3	1282.0	991.2
25°	1771.0	1771.8	1731.9	1694.2	1672.7	1682.4	1706.5	1633.3	1416.6	1387.7	1067.9
27.5°	2020.1	2023.1	1975.3	1911.3	1834.6	1790.7	1783.7	1732.4	1522.7	1490.7	1143.8
30°	2254.7	2254.7	2204.3	2126.2	2023.6	1938.1	1887.6	1832.4	1636.3	1601.2	1221.4
32.5°	2465.7	2463.9	2399.4	2314.8	2213.5	2119.6	2013.5	1936.7	1762.6	1723.6	1310.9
35°	2639.8	2635.4	2562.2	2481.0	2372.7	2303.0	2184.5	2049.0	1899.5	1860.4	1403.0
37.5°	2771.4	2766.5	2699.4	2613.5	2513.0	2467.9	2368.7	2183.7	2043.8	2008.2	1505.2
40°	2842.8	2833.2	2786.7	2722.7	2638.5	2599.0	2557.8	2350.8	2213.5	2169.2	1625.8
42.5°	2863.9	2852.5	2821.8	2792.0	2741.1	2710.0	2754.3	2539.4	2399.9	2361.7	1763.5
45°	2801.6	2795.0	2792.4	2813.9	2823.1	2831.9	2941.1	2748.1	2605.6	2576.6	1936.7
47.5°	2651.6	2649.9	2673.1	2762.6	2860.0	2952.5	3144.1	3005.6	2872.2	2841.1	2178.8
50°	2374.4	2392.4	2457.3	2614.3	2809.1	3020.9	3334.1	3362.6	3303.8	3258.2	2494.6
52.5°	1941.1	1975.8	2121.4	2360.0	2639.8	3001.6	3421.8	3648.5	3708.6	3661.2	2720.9
55°	1523.2	1555.6	1685.4	1988.1	2361.3	2854.7	3425.7	3747.2	3878.3	3834.5	2874.0
57.5°	1134.6	1164.4	1282.4	1571.9	1982.4	2565.7	3331.9	3802.0	4079.6	4051.6	3115.6
60°	741.6	771.0	877.6	1130.6	1537.6	2144.6	3100.7	3790.6	4353.7	4351.1	3412.6
62.5°	411.4	434.6	511.8	709.2	1073.2	1660.9	2737.6	3676.1	4619.1	4635.7	3657.3
65°	210.5	225.4	272.4	389.9	649.5	1177.6	2260.0	3413.9	4741.9	4784.0	3721.8
67.5°	137.7	142.5	153.9	202.6	347.8	740.8	1700.8	2993.3	4569.1	4618.2	3505.5
70°	111.8	115.8	122.4	135.1	179.4	393.4	1117.1	2390.7	3817.8	3851.1	2791.5
72.5°	82.0	87.3	100.0	108.3	129.4	215.8	581.1	1569.2	2621.8	2680.6	1754.3
75°	60.5	63.6	74.1	85.5	105.7	136.4	222.4	825.0	1353.9	1319.7	736.8
77.5°	36.4	38.6	47.4	54.8	75.4	85.1	77.6	304.8	411.8	387.3	178.1
80°	18.0	20.2	31.1	41.2	48.2	34.2	32.5	85.1	91.7	91.7	44.7
82.5°	6.1	7.9	16.7	27.2	23.7	13.2	15.4	21.9	24.6	25.9	13.2
85°	0.0	0.0	3.9	7.9	3.5	1.8	3.9	4.8	6.1	6.6	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.8	1.8
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°	436.8	436.8	436.8	436.8	436.8	436.8	436.8	436.8	436.8	436.8	436.8
2.5°	448.2	427.6	396.5	368.4	346.9	326.7	311.4	299.1	296.9	289.9	290.8
5°	468.4	431.1	373.7	329.4	298.2	277.2	259.6	246.5	240.8	235.1	230.7
7.5°	499.5	445.6	364.9	311.0	274.5	242.1	214.9	193.0	182.4	175.9	171.5
10°	537.7	465.8	365.3	300.0	246.0	196.5	159.2	135.1	123.7	120.2	119.7
12.5°	583.3	491.2	368.8	282.0	204.8	146.0	118.0	107.0	103.5	100.4	100.4
15°	631.5	519.7	368.8	249.1	156.1	114.0	102.2	95.2	90.8	89.0	88.2
17.5°	682.4	546.5	360.1	203.9	119.7	100.4	90.8	84.2	80.7	78.1	77.2
20°	736.8	571.9	338.1	156.1	102.6	89.9	80.7	74.1	70.6	68.0	68.0
22.5°	792.1	595.6	302.6	120.2	90.8	79.8	71.0	64.9	61.4	58.8	58.8
25°	843.4	611.4	257.0	99.1	82.0	71.0	63.2	57.0	53.1	51.3	50.4
27.5°	891.2	621.5	206.6	87.3	73.7	63.6	55.3	49.6	46.5	45.2	44.3
30°	940.7	624.1	157.9	79.4	66.7	56.1	48.2	43.9	41.2	39.5	39.5
32.5°	989.0	621.0	120.6	72.8	60.5	49.6	43.0	39.0	36.8	35.5	35.1
35°	1038.1	607.0	97.8	67.1	54.4	43.4	38.2	35.1	33.8	32.0	32.0
37.5°	1091.6	588.1	85.1	61.4	48.2	39.0	34.2	32.0	30.3	28.9	28.5
40°	1158.3	566.2	78.1	56.6	42.5	35.1	30.7	28.5	27.2	25.9	25.4
42.5°	1237.2	544.7	74.6	51.3	38.2	31.1	27.6	25.0	23.7	21.9	21.5
45°	1349.1	539.9	70.6	45.6	34.2	28.1	24.1	21.5	19.7	18.4	18.0
47.5°	1528.9	553.5	64.0	39.5	30.3	24.6	20.6	18.4	16.2	14.9	14.0
50°	1707.4	550.0	57.5	34.2	26.8	21.1	17.5	15.4	13.2	11.8	11.4
52.5°	1804.7	533.3	51.3	30.3	23.2	18.0	14.9	12.3	11.0	9.6	9.2
55°	1892.9	526.7	45.2	26.3	19.7	15.8	12.3	10.1	9.2	7.9	7.5
57.5°	2065.7	542.1	39.9	22.8	17.1	13.6	10.5	8.3	7.5	6.1	5.7
60°	2246.4	543.8	34.2	19.7	14.9	11.4	8.3	6.6	5.7	4.4	3.9
62.5°	2340.7	499.5	28.1	16.7	12.3	9.6	7.0	5.3	4.4	2.6	2.6
65°	2261.7	403.9	23.7	13.6	9.6	7.5	5.3	3.9	2.6	1.3	0.4
67.5°	2001.7	287.3	19.7	11.0	7.0	5.3	3.9	2.6	0.4	0.0	0.0
70°	1465.7	164.0	15.4	7.9	5.3	3.5	2.6	1.3	0.0	0.0	0.0
72.5°	900.8	87.7	11.4	5.3	3.9	2.6	2.2	0.9	0.0	0.0	0.0
75°	341.7	42.1	7.0	3.5	3.1	2.2	1.3	0.4	0.0	0.0	0.0
77.5°	92.5	20.6	3.9	2.6	2.2	1.3	0.9	0.0	0.0	0.0	0.0
80°	24.1	9.6	2.6	1.8	1.3	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	8.3	4.4	1.3	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0
85°	3.5	1.8	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)