

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: P631458

Luminaire Tested: GWS-SA1F-760-U-T3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-760-U-T3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

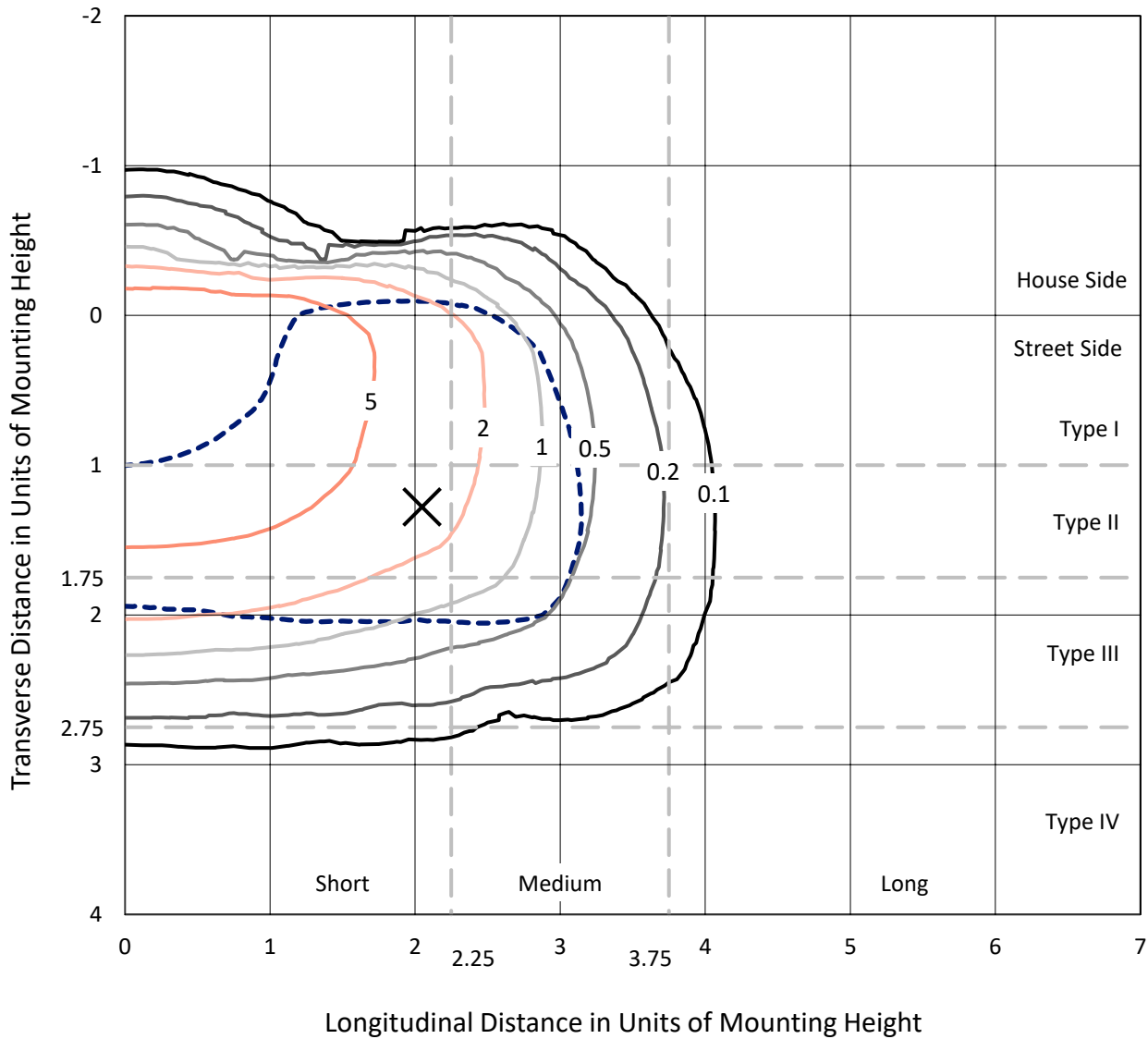
Lumens per Lamp: N/A  
Luminaire Lumens: 6240.2 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

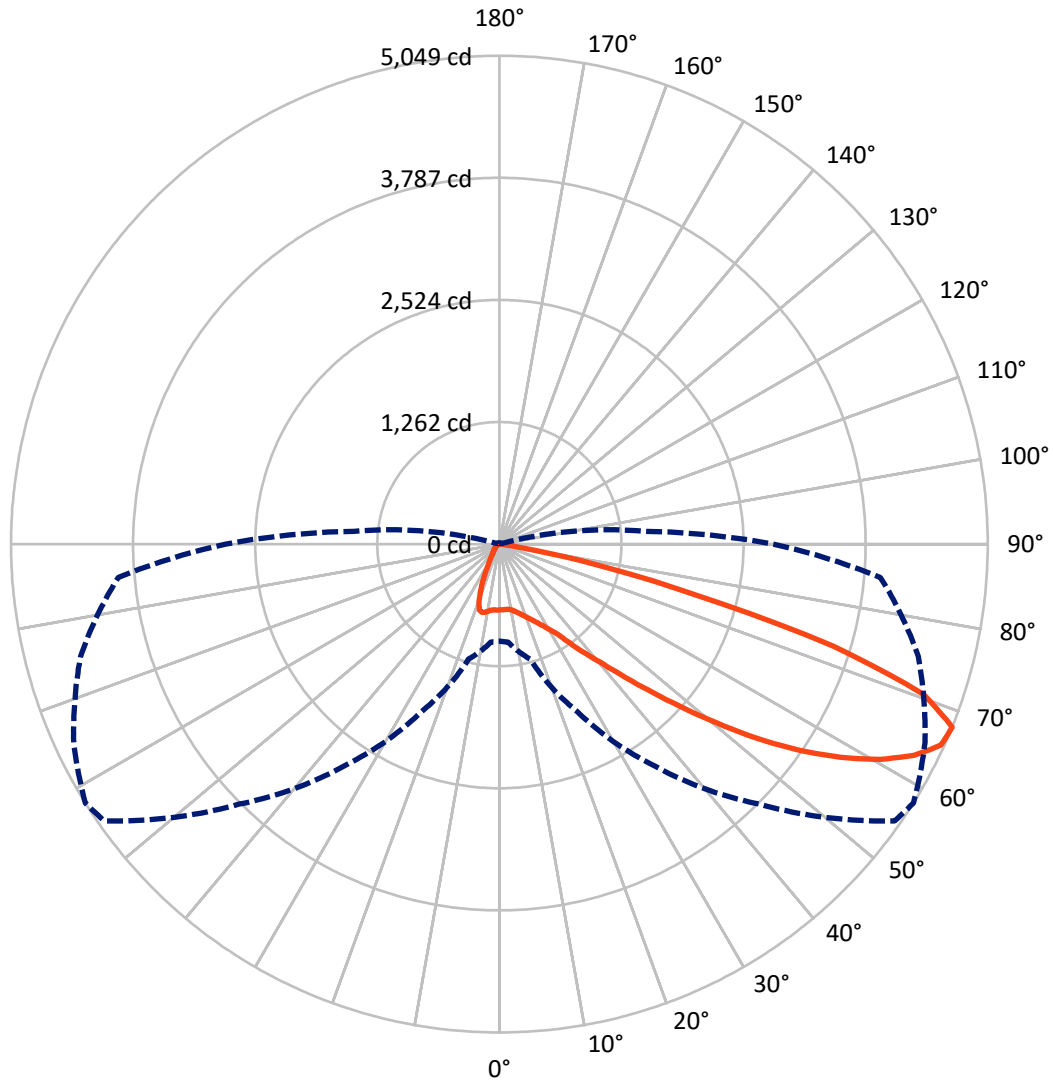
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	680.8	0.0	680.8
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	5559.4	0.0	5559.4
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	6240.2	0.0	6240.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.9	1.0
10°-20°	179.4	2.9
20°-30°	313.1	5.0
30°-40°	559.1	9.0
40°-50°	1021.9	16.4
50°-60°	1699.5	27.2
60°-70°	1846.0	29.6
70°-80°	542.0	8.7
80°-90°	15.4	0.2
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°	6240.2	100.0
0°-180°	6240.2	100.0

**Coefficient of Utilization**



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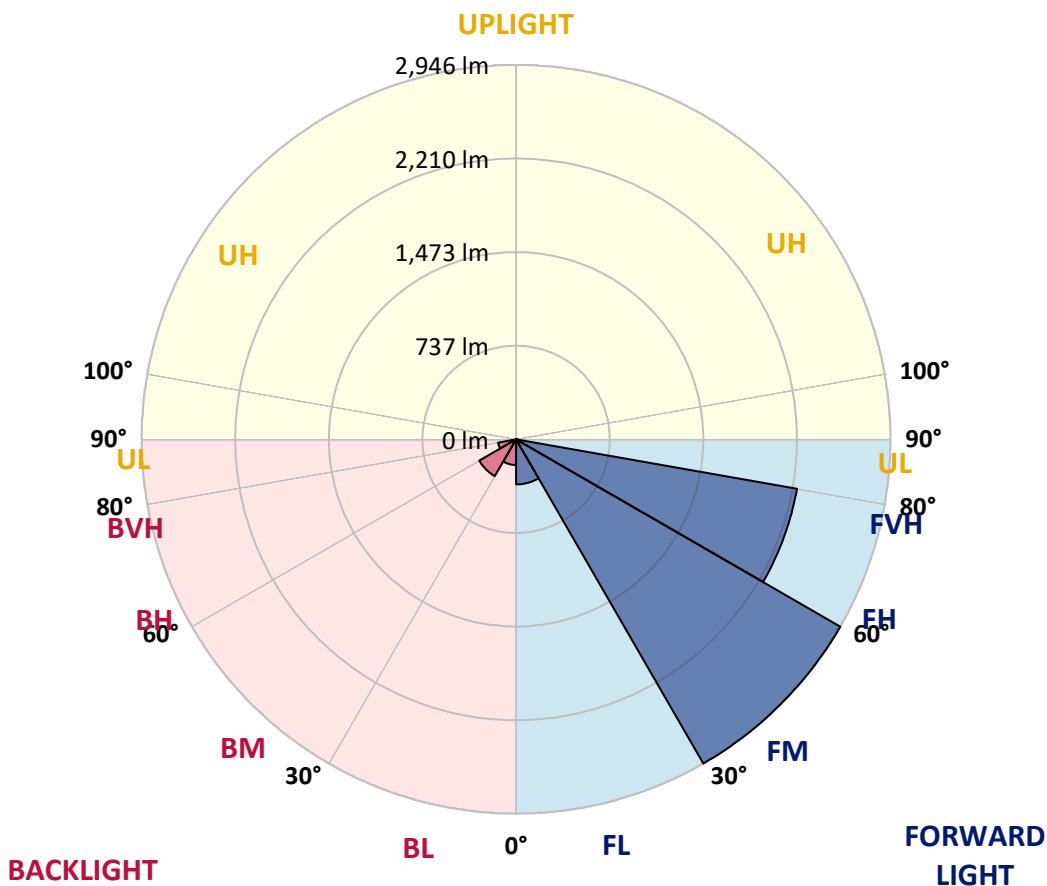
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.3	5.7			
FM (30°-60°)	2946.1	47.2			
FH (60°-80°)	2244.3	36.0			G2/5000
FVH (80°-90°)	14.7	0.2			G1/100
BL (0°-30°)	201.9	3.2	B1/500		
BM (30°-60°)	334.4	5.4	B1/1000		
BH (60°-80°)	143.7	2.3	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
2.5°	667.2	666.0	666.0	670.9	671.5	673.9	679.4	680.0	683.0	681.8	677.6
5°	632.5	633.1	636.7	645.3	652.6	661.7	675.1	678.2	684.9	688.5	686.1
7.5°	600.2	600.8	606.3	619.7	633.7	652.0	673.9	680.0	693.4	703.1	703.8
10°	588.0	587.4	592.9	608.1	626.4	652.0	683.7	691.6	711.7	728.7	731.8
12.5°	591.6	591.0	596.5	610.5	630.6	662.9	700.7	711.7	737.3	763.5	769.0
15°	606.3	605.7	609.3	620.9	642.8	676.3	722.6	739.1	771.4	803.1	811.6
17.5°	650.1	647.1	643.4	644.7	657.5	692.2	750.7	770.8	811.0	848.8	856.1
20°	728.1	720.2	710.5	697.7	691.6	715.3	783.0	806.1	854.9	898.1	899.3
22.5°	845.7	842.7	820.1	783.0	756.8	757.4	820.7	847.6	907.3	954.8	948.1
25°	1009.6	1007.8	973.1	912.1	843.9	820.7	868.9	896.3	969.4	1020.0	998.7
27.5°	1213.1	1200.4	1159.5	1077.3	975.5	903.0	929.8	954.2	1035.2	1082.8	1042.5
30°	1390.5	1391.1	1352.7	1266.8	1152.2	1026.7	1004.2	1025.5	1095.5	1145.5	1096.8
32.5°	1561.1	1566.5	1524.5	1447.1	1321.6	1188.2	1110.8	1114.4	1172.9	1227.2	1168.1
35°	1719.5	1723.8	1694.5	1628.7	1511.7	1356.9	1259.5	1257.6	1289.3	1344.8	1267.4
37.5°	1896.8	1901.1	1872.4	1813.3	1703.6	1550.1	1428.2	1425.8	1438.6	1483.7	1395.3
40°	2085.7	2093.6	2061.9	2012.0	1907.2	1777.4	1624.4	1602.5	1589.7	1642.7	1561.1
42.5°	2277.0	2289.2	2278.2	2228.3	2138.7	2031.5	1879.1	1845.0	1817.6	1884.0	1797.5
45°	2514.6	2529.3	2524.4	2486.0	2416.5	2329.4	2185.6	2146.0	2133.2	2194.8	2091.8
47.5°	2743.1	2759.0	2776.6	2768.1	2718.8	2678.5	2518.9	2496.4	2492.7	2558.5	2398.9
50°	2913.1	2927.8	2995.4	3044.1	3077.6	3069.1	2930.8	2897.3	2891.8	2933.9	2723.0
52.5°	3035.0	3049.0	3142.2	3294.6	3417.6	3484.7	3345.1	3337.8	3308.0	3293.3	3026.5
55°	3129.4	3148.9	3247.0	3477.4	3725.4	3874.0	3786.9	3760.7	3683.9	3599.8	3308.0
57.5°	3148.3	3156.3	3294.6	3605.3	3964.2	4204.9	4204.9	4159.2	4011.1	3894.7	3633.3
60°	2978.9	3003.3	3190.4	3595.0	4066.6	4421.2	4551.6	4519.9	4320.0	4176.9	3946.5
62.5°	2603.0	2630.4	2858.3	3347.0	3964.2	4465.7	4814.2	4809.3	4583.9	4410.2	4206.1
65°	1996.1	2016.2	2214.9	2799.8	3531.6	4294.5	5001.9	5015.3	4792.3	4564.4	4295.7
67.5°	1002.9	1016.9	1231.4	1912.6	2799.2	3801.5	4989.1	5048.8	4855.6	4482.7	3953.8
70°	350.4	364.4	465.5	820.7	1703.6	2902.8	4557.7	4655.2	4483.3	3826.5	2916.8
72.5°	120.0	126.7	193.2	304.7	662.9	1720.7	3465.8	3612.6	3304.9	2568.9	1676.2
75°	68.2	72.5	103.6	165.1	277.8	566.1	1966.3	2056.4	1926.7	1400.2	689.7
77.5°	46.3	50.0	64.6	93.8	153.5	182.2	801.9	1009.6	880.5	457.0	176.1
80°	27.4	29.9	39.6	55.4	78.6	70.7	171.8	228.5	294.3	136.5	53.0
82.5°	12.8	14.6	25.6	36.6	39.6	29.9	50.6	61.5	82.9	67.0	21.9
85°	0.0	0.0	8.5	15.2	14.6	8.5	14.0	15.2	22.5	33.5	8.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.8	3.7	6.7	3.7
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°	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0	680.0
2.5°	682.4	678.2	683.0	680.6	683.0	682.4	677.6	674.5	674.5	669.0	667.2
5°	691.0	686.7	687.9	682.4	681.2	678.2	672.1	669.6	669.6	664.2	662.3
7.5°	709.9	703.1	701.9	691.0	686.1	677.6	666.6	662.3	661.7	656.2	654.4
10°	739.7	731.8	726.3	712.3	698.3	681.2	658.1	638.6	627.6	613.0	611.8
12.5°	776.3	766.5	758.0	736.7	713.5	675.1	606.9	535.6	491.7	457.0	459.4
15°	817.1	808.0	794.5	762.3	714.7	614.8	472.2	362.5	308.9	280.3	279.1
17.5°	861.6	848.2	826.2	782.4	676.3	469.8	307.1	216.9	188.9	179.1	176.7
20°	903.0	886.6	859.1	786.6	565.4	318.1	191.9	168.2	163.3	160.2	160.2
22.5°	946.9	926.2	885.3	753.7	420.4	203.5	163.3	157.8	154.2	149.9	149.3
25°	991.4	964.5	909.1	667.8	275.4	160.2	152.9	146.8	140.1	133.4	131.6
27.5°	1029.1	994.4	927.4	539.9	176.7	144.4	139.5	129.2	120.0	112.7	111.5
30°	1074.2	1029.7	935.3	394.8	138.9	127.3	120.0	109.1	98.1	90.8	88.4
32.5°	1134.5	1085.8	923.1	257.1	123.1	112.1	100.5	87.7	76.8	68.9	67.6
35°	1228.4	1170.5	867.1	163.9	111.5	96.9	82.9	69.5	60.3	54.2	53.0
37.5°	1342.9	1289.3	775.0	123.1	99.9	84.1	67.6	54.8	48.1	43.9	42.7
40°	1512.9	1438.0	661.1	107.8	88.4	71.3	55.4	45.1	40.2	36.6	35.3
42.5°	1733.5	1613.5	530.1	98.1	77.4	59.7	45.1	37.2	32.9	30.5	29.9
45°	1991.2	1784.7	391.8	88.4	67.0	49.4	37.2	30.5	27.4	25.6	25.0
47.5°	2255.1	1934.6	270.5	78.0	57.3	40.8	31.1	26.2	23.8	21.3	20.7
50°	2536.6	2061.3	184.6	67.6	48.7	33.5	26.8	23.8	20.7	18.9	18.3
52.5°	2743.1	2108.2	128.6	58.5	41.4	28.6	23.8	21.3	18.9	16.5	15.8
55°	2933.9	2107.0	97.5	49.4	35.3	25.0	21.3	18.9	16.5	14.6	14.0
57.5°	3124.0	2090.6	76.8	42.0	30.5	22.5	18.9	16.5	15.2	12.8	12.2
60°	3247.0	2028.4	59.7	35.3	26.2	19.5	16.5	14.6	12.8	11.0	10.4
62.5°	3312.2	1941.9	45.7	28.0	21.3	17.1	14.6	12.8	11.0	9.1	8.5
65°	3223.9	1788.3	35.9	21.9	16.5	14.6	12.2	10.4	8.5	6.7	6.1
67.5°	2832.1	1508.1	28.0	17.7	12.8	11.0	10.4	8.5	6.1	4.9	4.3
70°	2001.6	1032.8	21.9	13.4	9.7	8.5	7.9	6.7	4.9	3.7	3.0
72.5°	1098.6	521.0	15.8	9.7	7.3	6.7	6.1	5.5	4.3	3.0	3.0
75°	422.9	143.2	11.6	6.7	4.9	4.9	4.3	4.3	3.7	2.4	2.4
77.5°	110.3	42.7	7.3	4.3	3.0	3.0	3.0	2.4	2.4	1.8	1.8
80°	35.3	14.0	4.3	3.0	2.4	1.8	1.8	1.2	1.8	1.2	1.2
82.5°	11.6	4.9	2.4	2.4	1.8	1.2	1.2	0.6	0.6	0.0	0.0
85°	4.3	2.4	1.8	1.2	1.2	1.2	0.6	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	1.2	1.2	1.2	0.6	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)