

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: P631454

Luminaire Tested: GWS-SA1F-760-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631454  
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-SA1F-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**

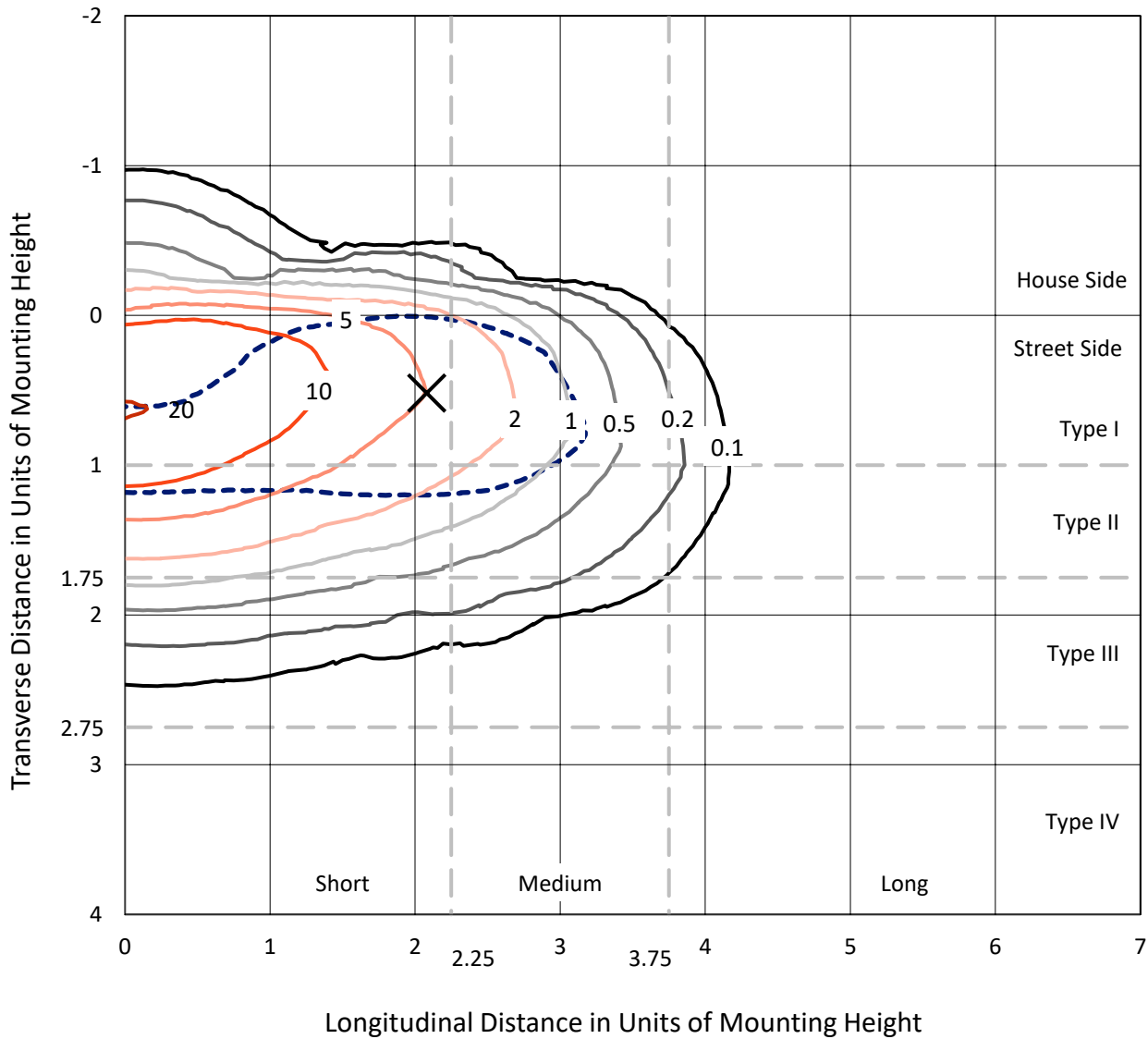
Lumens per Lamp: N/A  
Luminaire Lumens: 6855 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

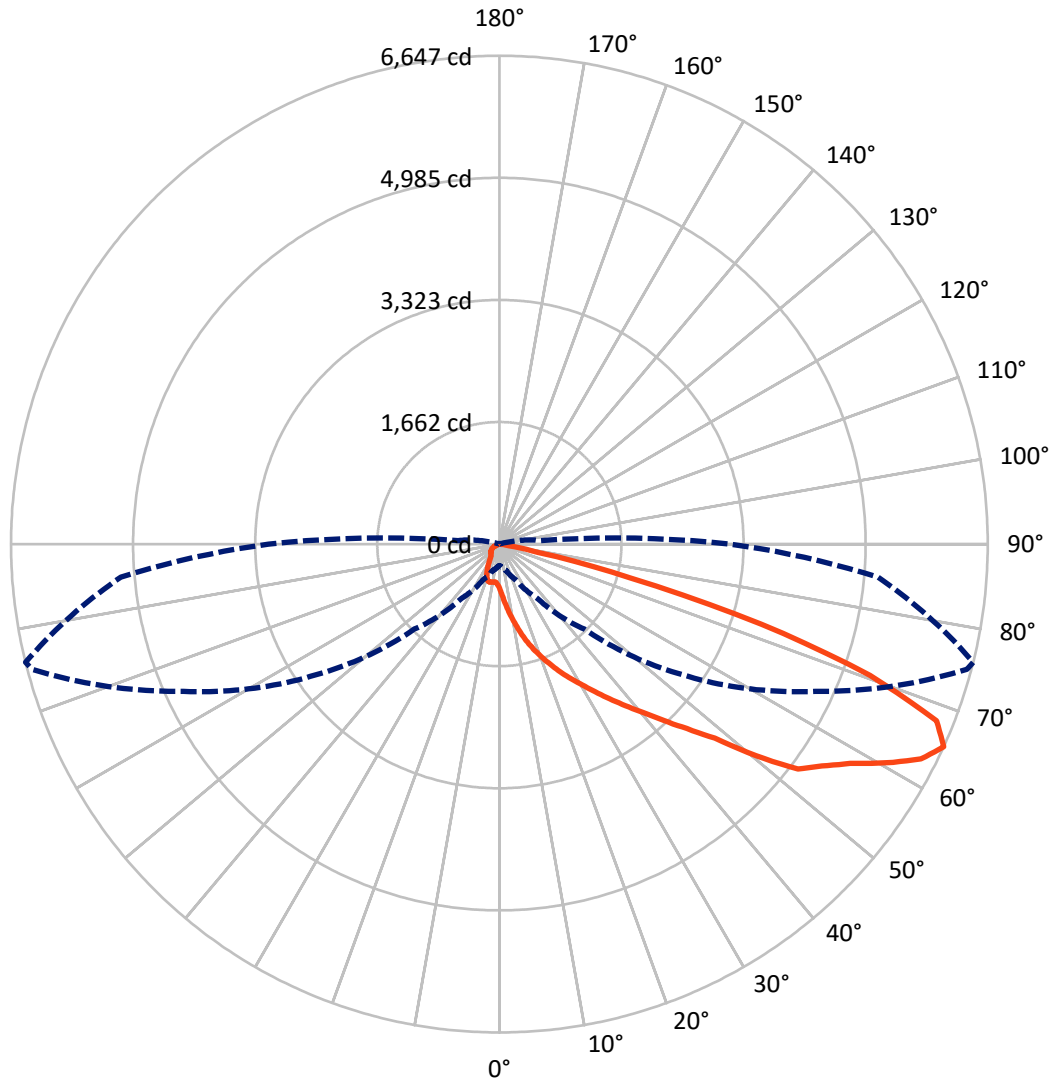
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 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	379.0	0.0	379.0
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	6476.0	0.0	6476.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	6855.0	0.0	6855.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	1.1
10°-20°	280.2	4.1
20°-30°	571.6	8.3
30°-40°	1016.6	14.8
40°-50°	1502.7	21.9
50°-60°	1720.5	25.1
60°-70°	1312.7	19.1
70°-80°	367.7	5.4
80°-90°	9.3	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°	6855.0	100.0
0°-180°	6855.0	100.0

**Coefficient of Utilization**



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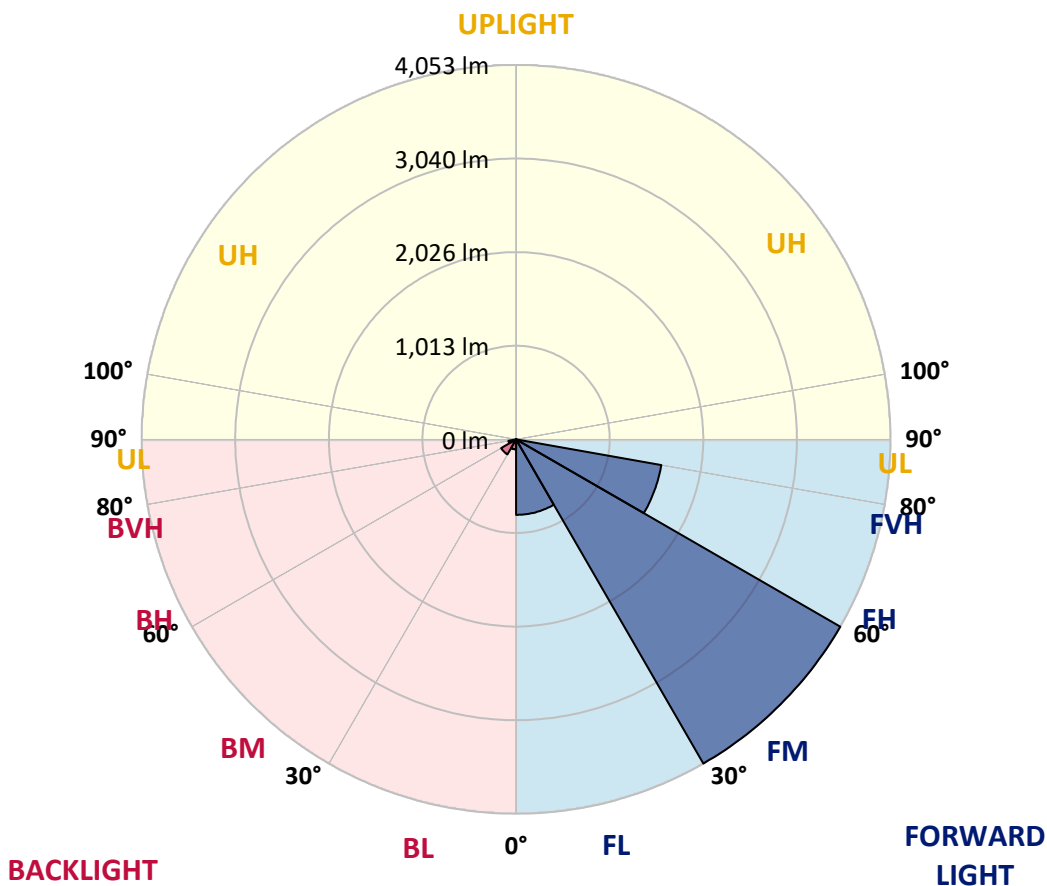
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	817.4	11.9			
FM (30°-60°)	4052.8	59.1			
FH (60°-80°)	1597.0	23.3			G1/1800
FVH (80°-90°)	8.7	0.1			G0/10
BL (0°-30°)	108.2	1.6	B0/110		
BM (30°-60°)	187.0	2.7	B0/220		
BH (60°-80°)	83.3	1.2	B0/110		G0/110
BVH (80°-90°)	0.5	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°	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9
2.5°	935.4	949.4	938.4	920.1	884.8	850.7	806.8	746.5	698.3	692.2	647.1
5°	1263.2	1262.0	1238.2	1214.4	1177.3	1118.8	1030.4	918.3	810.4	801.3	700.1
7.5°	1458.2	1460.0	1446.6	1428.3	1391.8	1331.4	1239.4	1104.2	946.3	928.0	772.7
10°	1622.1	1621.5	1611.7	1603.2	1570.3	1530.1	1431.4	1282.7	1092.6	1063.9	853.7
12.5°	1745.2	1749.5	1754.3	1762.9	1748.8	1709.2	1616.0	1453.9	1240.6	1209.0	946.3
15°	1842.7	1843.9	1862.2	1895.1	1906.7	1886.0	1801.3	1619.7	1386.9	1359.5	1053.0
17.5°	1871.9	1874.4	1905.5	1965.8	2026.7	2038.3	1974.3	1786.6	1530.7	1501.5	1156.6
20°	1933.5	1939.0	1962.1	2015.1	2091.9	2154.1	2129.1	1955.4	1674.5	1636.1	1262.6
22.5°	2127.3	2130.3	2122.4	2129.1	2168.7	2240.6	2255.8	2118.7	1822.0	1781.1	1377.1
25°	2460.6	2461.8	2406.3	2353.9	2324.1	2337.5	2371.0	2269.2	1968.2	1928.0	1483.8
27.5°	2806.7	2811.0	2744.5	2655.6	2548.9	2488.0	2478.2	2407.0	2115.7	2071.2	1589.2
30°	3132.7	3132.7	3062.6	2954.2	2811.6	2692.7	2622.7	2545.9	2273.5	2224.8	1697.1
32.5°	3425.8	3423.4	3333.8	3216.2	3075.4	2945.0	2797.5	2690.9	2449.0	2394.8	1821.4
35°	3667.7	3661.6	3559.9	3447.1	3296.6	3199.7	3035.2	2846.9	2639.1	2584.9	1949.3
37.5°	3850.5	3843.8	3750.6	3631.1	3491.6	3428.8	3291.1	3034.0	2839.6	2790.2	2091.3
40°	3949.8	3936.4	3871.8	3782.9	3665.9	3611.0	3553.8	3266.1	3075.4	3013.9	2258.9
42.5°	3979.1	3963.2	3920.6	3879.2	3808.5	3765.2	3826.7	3528.2	3334.4	3281.4	2450.2
45°	3892.6	3883.4	3879.8	3909.6	3922.4	3934.6	4086.3	3818.2	3620.2	3580.0	2690.9
47.5°	3684.2	3681.7	3714.0	3838.3	3973.6	4102.2	4368.5	4175.9	3990.7	3947.4	3027.3
50°	3299.0	3324.0	3414.2	3632.4	3902.9	4197.2	4632.3	4671.9	4590.3	4526.9	3466.0
52.5°	2697.0	2745.1	2947.4	3278.9	3667.7	4170.4	4754.2	5069.2	5152.7	5086.9	3780.4
55°	2116.3	2161.4	2341.8	2762.2	3280.8	3966.3	4759.7	5206.3	5388.5	5327.6	3993.1
57.5°	1576.4	1617.8	1781.8	2183.9	2754.3	3564.7	4629.3	5282.5	5668.2	5629.2	4328.9
60°	1030.4	1071.2	1219.3	1570.9	2136.4	2979.7	4308.1	5266.7	6049.1	6045.4	4741.4
62.5°	571.6	603.9	711.1	985.3	1491.1	2307.6	3803.6	5107.6	6417.7	6440.9	5081.4
65°	292.5	313.2	378.4	541.7	902.5	1636.1	3140.0	4743.2	6588.3	6646.8	5171.0
67.5°	191.3	198.0	213.9	281.5	483.2	1029.2	2363.1	4158.8	6348.3	6416.5	4870.6
70°	155.4	160.9	170.0	187.7	249.2	546.6	1552.0	3321.6	5304.4	5350.7	3878.5
72.5°	113.9	121.3	138.9	150.5	179.8	299.8	807.4	2180.3	3642.7	3724.4	2437.4
75°	84.1	88.4	103.0	118.8	146.9	189.5	308.9	1146.2	1881.1	1833.5	1023.7
77.5°	50.6	53.6	65.8	76.2	104.8	118.2	107.9	423.5	572.2	538.1	247.4
80°	25.0	28.0	43.3	57.3	67.0	47.5	45.1	118.2	127.4	127.4	62.2
82.5°	8.5	11.0	23.2	37.8	32.9	18.3	21.3	30.5	34.1	36.0	18.3
85°	0.0	0.0	5.5	11.0	4.9	2.4	5.5	6.7	8.5	9.1	6.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.4	2.4
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°	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9	606.9
2.5°	622.8	594.1	550.9	511.9	482.0	454.0	432.6	415.6	412.5	402.8	404.0
5°	650.8	599.0	519.2	457.6	414.4	385.1	360.7	342.5	334.5	326.6	320.5
7.5°	694.1	619.1	507.0	432.0	381.5	336.4	298.6	268.1	253.5	244.4	238.3
10°	747.1	647.1	507.6	416.8	341.8	273.0	221.2	187.7	171.8	167.0	166.4
12.5°	810.4	682.5	512.5	391.8	284.6	202.9	163.9	148.7	143.8	139.5	139.5
15°	877.5	722.1	512.5	346.1	216.9	158.4	142.0	132.2	126.1	123.7	122.5
17.5°	948.2	759.3	500.3	283.4	166.4	139.5	126.1	117.0	112.1	108.5	107.2
20°	1023.7	794.6	469.8	216.9	142.6	124.9	112.1	103.0	98.1	94.5	94.5
22.5°	1100.5	827.5	420.5	167.0	126.1	110.9	98.7	90.2	85.3	81.7	81.7
25°	1171.8	849.4	357.1	137.7	113.9	98.7	87.7	79.2	73.7	71.3	70.1
27.5°	1238.2	863.5	287.0	121.3	102.4	88.4	76.8	68.9	64.6	62.8	61.5
30°	1307.1	867.1	219.4	110.3	92.6	78.0	67.0	60.9	57.3	54.8	54.8
32.5°	1374.1	862.8	167.6	101.2	84.1	68.9	59.7	54.2	51.2	49.4	48.7
35°	1442.3	843.3	135.9	93.2	75.6	60.3	53.0	48.7	46.9	44.5	44.5
37.5°	1516.7	817.1	118.2	85.3	67.0	54.2	47.5	44.5	42.0	40.2	39.6
40°	1609.3	786.7	108.5	78.6	59.1	48.7	42.7	39.6	37.8	36.0	35.3
42.5°	1719.0	756.8	103.6	71.3	53.0	43.3	38.4	34.7	32.9	30.5	29.9
45°	1874.4	750.1	98.1	63.4	47.5	39.0	33.5	29.9	27.4	25.6	25.0
47.5°	2124.2	769.0	89.0	54.8	42.0	34.1	28.6	25.6	22.5	20.7	19.5
50°	2372.2	764.1	79.8	47.5	37.2	29.2	24.4	21.3	18.3	16.5	15.8
52.5°	2507.5	741.0	71.3	42.0	32.3	25.0	20.7	17.1	15.2	13.4	12.8
55°	2630.0	731.8	62.8	36.6	27.4	21.9	17.1	14.0	12.8	11.0	10.4
57.5°	2870.1	753.2	55.5	31.7	23.8	18.9	14.6	11.6	10.4	8.5	7.9
60°	3121.1	755.6	47.5	27.4	20.7	15.8	11.6	9.1	7.9	6.1	5.5
62.5°	3252.1	694.1	39.0	23.2	17.1	13.4	9.7	7.3	6.1	3.7	3.7
65°	3142.4	561.2	32.9	18.9	13.4	10.4	7.3	5.5	3.7	1.8	0.6
67.5°	2781.1	399.1	27.4	15.2	9.7	7.3	5.5	3.7	0.6	0.0	0.0
70°	2036.5	227.9	21.3	11.0	7.3	4.9	3.7	1.8	0.0	0.0	0.0
72.5°	1251.6	121.9	15.8	7.3	5.5	3.7	3.0	1.2	0.0	0.0	0.0
75°	474.7	58.5	9.7	4.9	4.3	3.0	1.8	0.6	0.0	0.0	0.0
77.5°	128.6	28.6	5.5	3.7	3.0	1.8	1.2	0.0	0.0	0.0	0.0
80°	33.5	13.4	3.7	2.4	1.8	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	11.6	6.1	1.8	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
85°	4.9	2.4	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	0.6	0.6	0.6	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)