

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: P632444

Luminaire Tested: GWS-SA2C-760-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632444  
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-SA2C-760-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

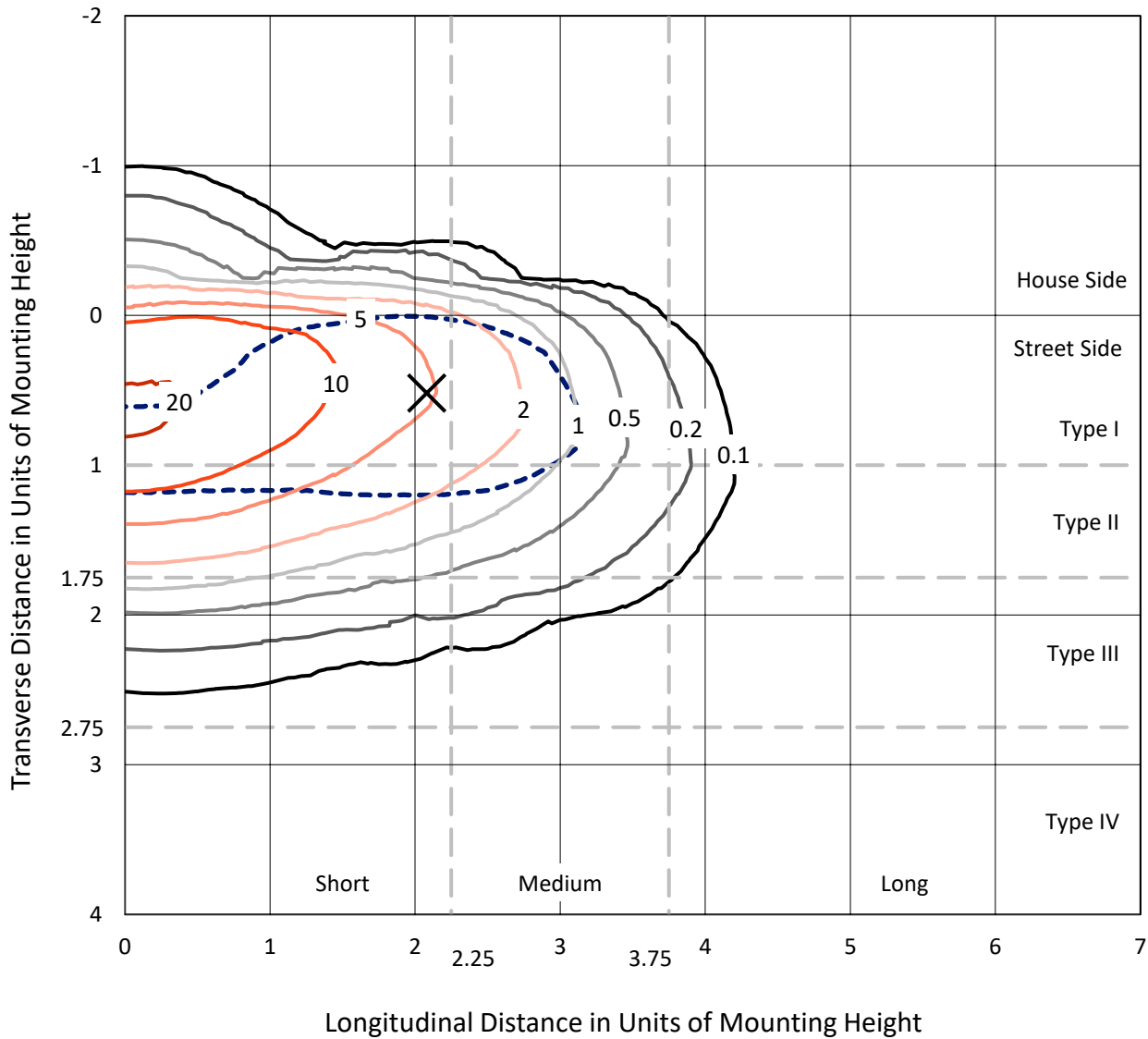
Lumens per Lamp: N/A  
Luminaire Lumens: 7530.6 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

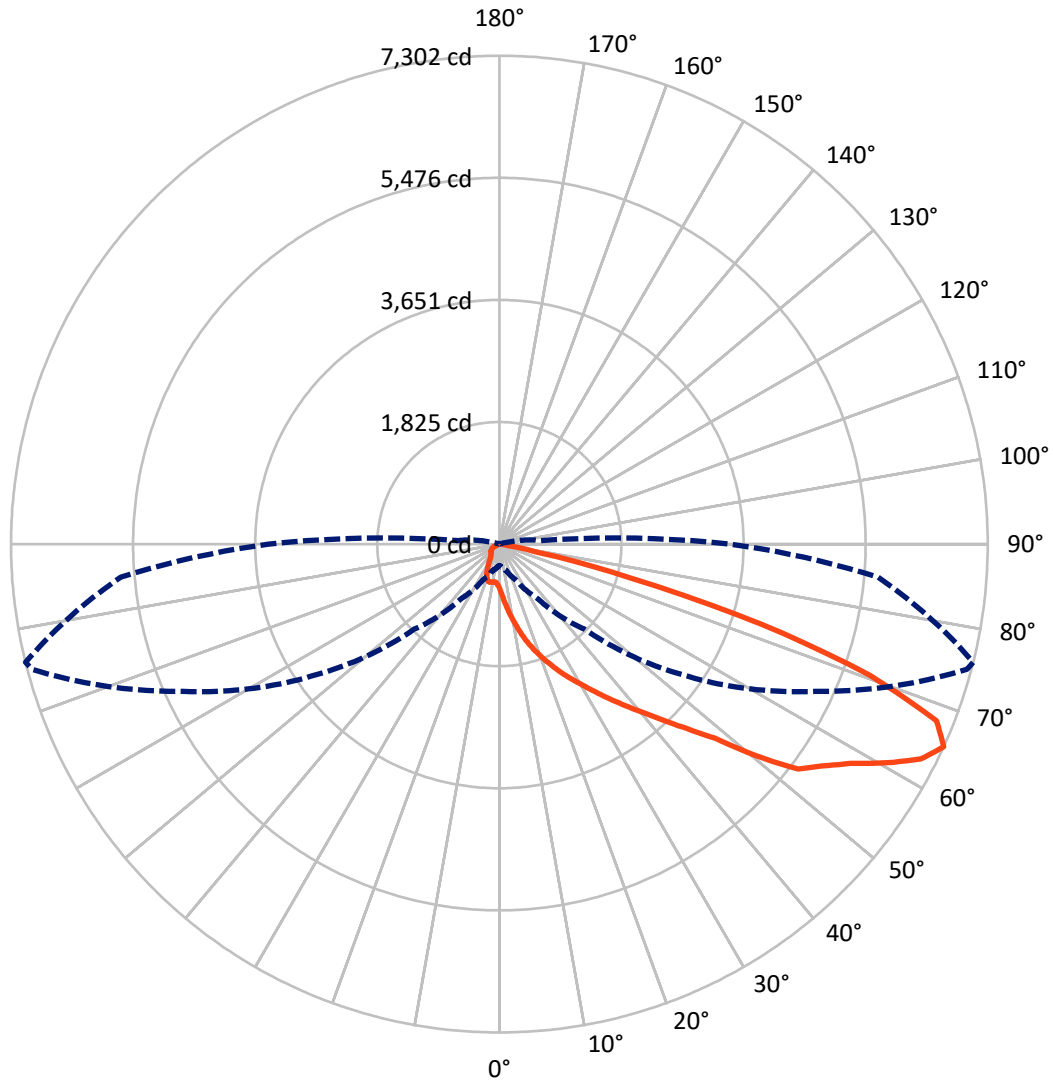
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.6 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	416.4	0.0	416.4
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	7114.2	0.0	7114.2
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	7530.6	0.0	7530.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	1.1
10°-20°	307.8	4.1
20°-30°	627.9	8.3
30°-40°	1116.8	14.8
40°-50°	1650.8	21.9
50°-60°	1890.1	25.1
60°-70°	1442.0	19.1
70°-80°	403.9	5.4
80°-90°	10.2	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°	7530.6	100.0
0°-180°	7530.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632444

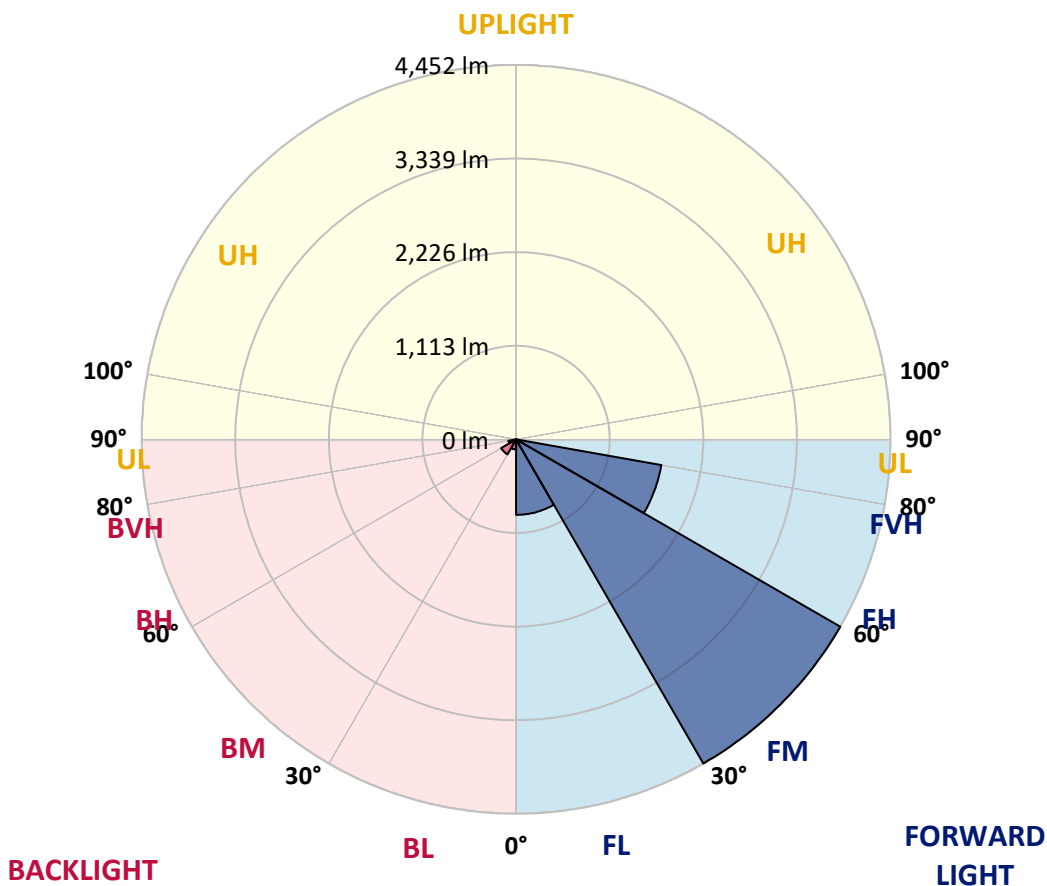
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.0	11.9			
FM (30°-60°)	4452.2	59.1			
FH (60°-80°)	1754.4	23.3			G1/1800
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	118.8	1.6	B1/500		
BM (30°-60°)	205.4	2.7	B0/220		
BH (60°-80°)	91.5	1.2	B0/110		G0/110
BVH (80°-90°)	0.6	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-G1**

Type II Short





REPORT NUMBER: P632444

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7
2.5°	1027.5	1042.9	1030.9	1010.8	972.0	934.5	886.3	820.0	767.1	760.5	710.9
5°	1387.7	1386.3	1360.2	1334.1	1293.3	1229.0	1132.0	1008.8	890.3	880.3	769.2
7.5°	1601.9	1603.9	1589.2	1569.1	1528.9	1462.7	1361.6	1213.0	1039.6	1019.5	848.8
10°	1782.0	1781.3	1770.6	1761.2	1725.1	1680.9	1572.4	1409.1	1200.3	1168.8	937.8
12.5°	1917.2	1921.9	1927.2	1936.6	1921.2	1877.7	1775.3	1597.2	1362.9	1328.1	1039.6
15°	2024.3	2025.6	2045.7	2081.9	2094.6	2071.8	1978.8	1779.3	1523.6	1493.5	1156.7
17.5°	2056.4	2059.1	2093.2	2159.5	2226.5	2239.2	2168.9	1962.7	1681.6	1649.4	1270.5
20°	2124.0	2130.1	2155.5	2213.7	2298.1	2366.4	2338.9	2148.1	1839.5	1797.4	1387.0
22.5°	2336.9	2340.3	2331.6	2338.9	2382.4	2461.4	2478.2	2327.5	2001.5	1956.7	1512.9
25°	2703.1	2704.4	2643.5	2585.9	2553.1	2567.9	2604.7	2492.9	2162.2	2118.0	1630.0
27.5°	3083.3	3088.0	3015.0	2917.3	2800.1	2733.2	2722.5	2644.2	2324.2	2275.3	1745.8
30°	3441.4	3441.4	3364.5	3245.3	3088.7	2958.1	2881.1	2796.8	2497.6	2444.0	1864.3
32.5°	3763.4	3760.7	3662.3	3533.1	3378.5	3235.3	3073.3	2956.1	2690.4	2630.8	2000.9
35°	4029.2	4022.5	3910.7	3786.9	3621.5	3515.1	3334.3	3127.5	2899.2	2839.6	2141.4
37.5°	4230.0	4222.6	4120.2	3989.0	3835.7	3766.8	3615.5	3333.0	3119.5	3065.2	2297.4
40°	4339.1	4324.4	4253.4	4155.7	4027.2	3966.9	3904.0	3588.0	3378.5	3310.9	2481.5
42.5°	4371.3	4353.8	4307.0	4261.5	4183.8	4136.3	4203.9	3875.9	3663.0	3604.8	2691.7
45°	4276.2	4266.2	4262.1	4294.9	4309.0	4322.4	4489.1	4194.5	3977.0	3932.8	2956.1
47.5°	4047.3	4044.6	4080.1	4216.6	4365.2	4506.5	4799.0	4587.5	4384.0	4336.4	3325.6
50°	3624.2	3651.6	3750.7	3990.4	4287.6	4610.9	5088.9	5132.4	5042.7	4973.0	3807.6
52.5°	2962.8	3015.7	3237.9	3602.1	4029.2	4581.4	5222.7	5568.8	5660.5	5588.2	4153.0
55°	2324.9	2374.4	2572.5	3034.4	3604.1	4357.2	5228.8	5719.4	5919.6	5852.7	4386.6
57.5°	1731.8	1777.3	1957.4	2399.2	3025.7	3916.1	5085.5	5803.1	6226.9	6184.0	4755.5
60°	1132.0	1176.8	1339.5	1725.7	2347.0	3273.4	4732.7	5785.7	6645.2	6641.2	5208.7
62.5°	627.9	663.4	781.2	1082.4	1638.0	2535.1	4178.5	5611.0	7050.2	7075.7	5582.2
65°	321.3	344.1	415.7	595.1	991.4	1797.4	3449.5	5210.7	7237.7	7301.9	5680.6
67.5°	210.2	217.6	235.0	309.3	530.8	1130.6	2596.0	4568.7	6973.9	7048.9	5350.6
70°	170.7	176.7	186.8	206.2	273.8	600.5	1705.0	3649.0	5827.2	5878.1	4260.8
72.5°	125.2	133.2	152.6	165.3	197.5	329.3	887.0	2395.2	4001.7	4091.4	2677.6
75°	92.4	97.1	113.1	130.5	161.3	208.2	339.4	1259.2	2066.5	2014.3	1124.6
77.5°	55.6	58.9	72.3	83.7	115.1	129.9	118.5	465.2	628.6	591.1	271.8
80°	27.4	30.8	47.5	62.9	73.6	52.2	49.5	129.9	139.9	139.9	68.3
82.5°	9.4	12.0	25.4	41.5	36.1	20.1	23.4	33.5	37.5	39.5	20.1
85°	0.0	0.0	6.0	12.0	5.4	2.7	6.0	7.4	9.4	10.0	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632444

CATALOG NUMBER: GWS-SA2C-760-U-T2R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7	666.7
2.5°	684.1	652.7	605.1	562.3	529.5	498.7	475.3	456.5	453.2	442.5	443.8
5°	714.9	658.0	570.3	502.7	455.2	423.1	396.3	376.2	367.5	358.8	352.1
7.5°	762.5	680.1	556.9	474.6	419.1	369.5	328.0	294.5	278.5	268.4	261.7
10°	820.7	710.9	557.6	457.9	375.5	299.9	243.0	206.2	188.8	183.4	182.7
12.5°	890.3	749.7	563.0	430.4	312.6	222.9	180.1	163.3	158.0	153.3	153.3
15°	964.0	793.3	563.0	380.2	238.3	174.0	156.0	145.3	138.6	135.9	134.6
17.5°	1041.6	834.1	549.6	311.3	182.7	153.3	138.6	128.5	123.2	119.2	117.8
20°	1124.6	872.9	516.1	238.3	156.6	137.2	123.2	113.1	107.8	103.8	103.8
22.5°	1209.0	909.1	461.9	183.4	138.6	121.8	108.4	99.1	93.7	89.7	89.7
25°	1287.3	933.2	392.3	151.3	125.2	108.4	96.4	87.0	81.0	78.3	77.0
27.5°	1360.2	948.6	315.3	133.2	112.5	97.1	84.3	75.6	71.0	68.9	67.6
30°	1435.9	952.6	241.0	121.2	101.8	85.7	73.6	66.9	62.9	60.2	60.2
32.5°	1509.5	947.9	184.1	111.1	92.4	75.6	65.6	59.6	56.2	54.2	53.6
35°	1584.5	926.5	149.3	102.4	83.0	66.3	58.2	53.6	51.5	48.9	48.9
37.5°	1666.2	897.7	129.9	93.7	73.6	59.6	52.2	48.9	46.2	44.2	43.5
40°	1767.9	864.2	119.2	86.4	64.9	53.6	46.9	43.5	41.5	39.5	38.8
42.5°	1888.4	831.4	113.8	78.3	58.2	47.5	42.2	38.2	36.1	33.5	32.8
45°	2059.1	824.0	107.8	69.6	52.2	42.8	36.8	32.8	30.1	28.1	27.4
47.5°	2333.6	844.8	97.7	60.2	46.2	37.5	31.5	28.1	24.8	22.8	21.4
50°	2606.0	839.4	87.7	52.2	40.8	32.1	26.8	23.4	20.1	18.1	17.4
52.5°	2754.6	814.0	78.3	46.2	35.5	27.4	22.8	18.7	16.7	14.7	14.1
55°	2889.2	804.0	68.9	40.2	30.1	24.1	18.7	15.4	14.1	12.0	11.4
57.5°	3152.9	827.4	60.9	34.8	26.1	20.8	16.1	12.7	11.4	9.4	8.7
60°	3428.7	830.1	52.2	30.1	22.8	17.4	12.7	10.0	8.7	6.7	6.0
62.5°	3572.6	762.5	42.8	25.4	18.7	14.7	10.7	8.0	6.7	4.0	4.0
65°	3452.1	616.5	36.1	20.8	14.7	11.4	8.0	6.0	4.0	2.0	0.7
67.5°	3055.2	438.5	30.1	16.7	10.7	8.0	6.0	4.0	0.7	0.0	0.0
70°	2237.2	250.4	23.4	12.0	8.0	5.4	4.0	2.0	0.0	0.0	0.0
72.5°	1375.0	133.9	17.4	8.0	6.0	4.0	3.3	1.3	0.0	0.0	0.0
75°	521.5	64.3	10.7	5.4	4.7	3.3	2.0	0.7	0.0	0.0	0.0
77.5°	141.2	31.5	6.0	4.0	3.3	2.0	1.3	0.0	0.0	0.0	0.0
80°	36.8	14.7	4.0	2.7	2.0	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	12.7	6.7	2.0	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0
85°	5.4	2.7	1.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.7	0.7	0.7	0.7	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)