

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: P630410

Luminaire Tested: GWS-SA1D-750-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-750-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

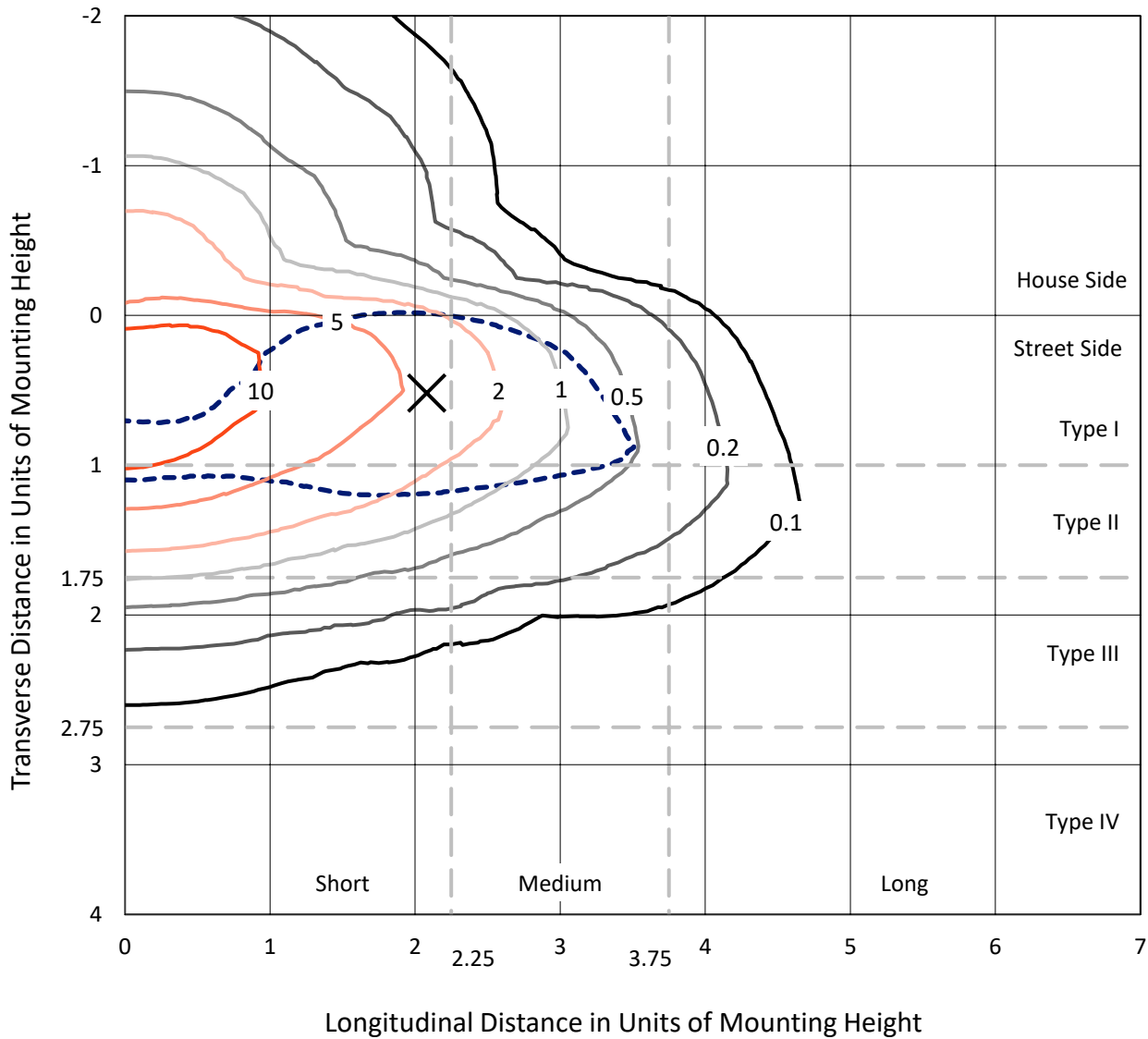
Lumens per Lamp: N/A  
Luminaire Lumens: 6324.8 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

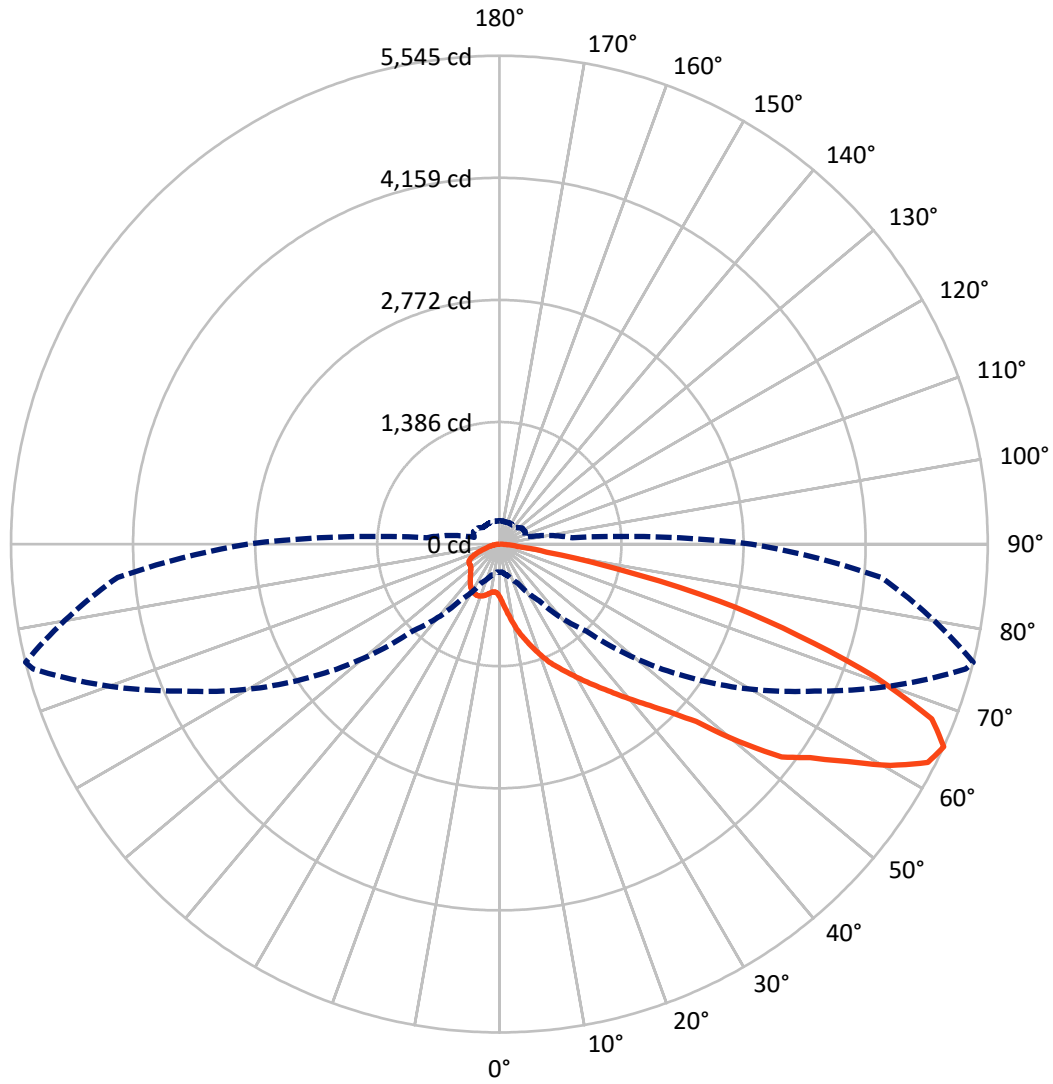
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 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	1057.2	0.0	1057.2
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	5267.6	0.0	5267.6
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	6324.8	0.0	6324.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	1.1
10°-20°	271.0	4.3
20°-30°	528.2	8.4
30°-40°	883.4	14.0
40°-50°	1264.8	20.0
50°-60°	1497.4	23.7
60°-70°	1245.1	19.7
70°-80°	509.5	8.1
80°-90°	54.2	0.9
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°	6324.8	100.0
0°-180°	6324.8	100.0

**Coefficient of Utilization**



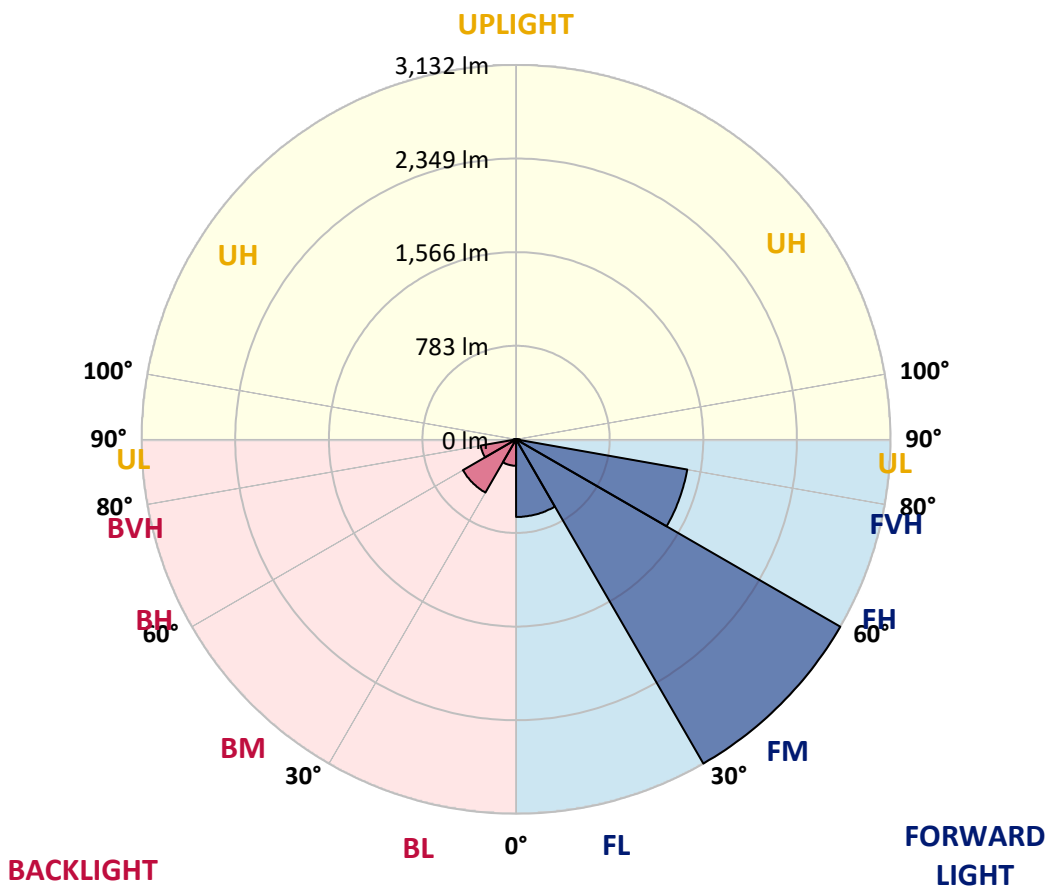
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.2	10.3			
FM (30°-60°)	3131.8	49.5			
FH (60°-80°)	1454.2	23.0			G1/1800
FVH (80°-90°)	32.4	0.5			G1/100
BL (0°-30°)	221.2	3.5	B1/500		
BM (30°-60°)	513.8	8.1	B1/1000		
BH (60°-80°)	300.4	4.7	B1/500		G1/500
BVH (80°-90°)	21.9	0.3			G1/100
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9
2.5°	839.5	842.6	832.4	828.8	804.8	772.3	745.2	704.3	666.5	660.7	626.9
5°	1066.3	1052.9	1041.4	1033.8	1000.4	963.5	906.2	829.3	748.8	739.0	666.1
7.5°	1201.0	1198.8	1184.5	1180.1	1154.3	1117.4	1058.3	962.7	845.7	829.7	719.0
10°	1309.0	1307.7	1300.6	1304.6	1281.0	1245.0	1187.6	1088.9	952.0	936.0	778.1
12.5°	1403.3	1405.5	1404.2	1418.9	1406.9	1378.8	1319.3	1210.8	1058.3	1040.9	850.2
15°	1472.2	1474.0	1480.7	1512.7	1519.3	1513.6	1453.1	1330.4	1163.2	1138.3	924.4
17.5°	1491.8	1495.3	1511.3	1562.9	1598.9	1622.9	1578.0	1452.2	1266.3	1239.2	1000.0
20°	1518.0	1522.0	1538.0	1591.8	1644.7	1699.4	1691.4	1575.8	1370.4	1348.2	1076.5
22.5°	1639.4	1636.3	1629.2	1655.0	1692.8	1760.8	1780.8	1694.5	1478.0	1456.7	1161.0
25°	1873.3	1867.5	1822.2	1798.6	1786.1	1827.5	1863.1	1802.6	1582.9	1550.9	1239.7
27.5°	2131.2	2128.1	2070.3	2014.2	1937.8	1920.0	1940.9	1896.9	1684.8	1652.3	1308.1
30°	2375.3	2365.9	2305.5	2235.2	2133.0	2056.5	2025.8	1989.3	1796.4	1762.6	1388.2
32.5°	2593.6	2581.6	2510.5	2432.6	2325.5	2235.2	2143.6	2087.6	1922.6	1883.5	1470.0
35°	2772.8	2760.8	2687.9	2605.2	2487.3	2420.6	2295.3	2194.3	2051.1	2011.6	1566.5
37.5°	2911.5	2900.4	2824.4	2743.0	2640.3	2587.4	2478.4	2314.4	2199.2	2157.9	1668.7
40°	2989.3	2981.3	2920.4	2855.9	2769.7	2723.9	2675.0	2466.0	2365.1	2323.7	1789.2
42.5°	3012.9	3007.6	2964.9	2931.5	2873.3	2838.6	2866.6	2644.3	2542.0	2506.0	1924.9
45°	2953.8	2953.8	2941.3	2958.2	2960.9	2960.4	3058.7	2845.7	2759.5	2719.9	2116.1
47.5°	2802.6	2812.4	2830.6	2913.8	3001.3	3074.7	3283.2	3114.3	3039.1	3006.7	2386.8
50°	2526.0	2552.7	2615.0	2777.2	2963.6	3150.3	3495.8	3511.4	3582.9	3525.6	2785.2
52.5°	2121.0	2116.9	2275.7	2506.9	2791.0	3153.4	3612.7	3861.7	4054.3	4014.7	3081.4
55°	1685.6	1679.0	1827.0	2145.9	2526.5	3034.2	3683.0	4022.2	4315.7	4280.1	3347.7
57.5°	1290.8	1282.4	1414.0	1701.7	2153.0	2781.2	3669.6	4213.4	4675.4	4657.2	3709.7
60°	888.4	878.2	1001.3	1253.0	1711.0	2394.4	3522.0	4311.7	5096.5	5102.7	4096.9
62.5°	533.6	527.8	617.2	812.4	1230.8	1915.1	3176.5	4252.1	5431.8	5459.8	4345.9
65°	321.9	317.9	370.4	484.7	780.8	1397.5	2643.9	3947.5	5480.2	5544.7	4351.7
67.5°	234.3	234.8	249.9	295.2	455.3	902.6	1984.0	3401.5	5227.7	5294.4	4077.4
70°	203.6	204.5	212.5	222.8	275.2	516.7	1289.9	2685.2	4481.1	4532.7	3419.8
72.5°	181.0	181.0	186.3	191.6	215.2	314.8	691.0	1876.8	3536.7	3550.5	2610.1
75°	159.2	157.8	160.5	163.2	186.8	220.1	336.2	1307.7	2612.3	2580.3	1687.0
77.5°	126.7	125.4	125.8	128.5	149.8	157.4	170.3	816.8	1472.2	1389.5	745.2
80°	90.3	89.4	94.3	100.9	110.7	96.5	106.7	395.3	583.8	543.4	289.0
82.5°	53.8	55.6	63.1	68.5	76.5	60.5	68.9	132.1	206.8	201.4	117.4
85°	7.6	8.0	22.7	26.2	32.9	23.6	36.5	59.6	82.7	88.5	41.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	10.7	23.6	24.0	10.2
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°	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9
2.5°	609.6	588.7	558.9	534.0	513.1	496.2	482.0	471.3	468.2	463.8	463.8
5°	631.8	594.0	540.7	502.9	481.1	468.2	459.3	454.9	452.6	450.0	448.6
7.5°	662.5	609.6	537.6	499.3	482.4	474.4	468.7	466.0	464.2	461.5	461.5
10°	704.8	632.7	547.4	511.8	498.4	490.4	483.8	479.3	475.3	471.3	470.4
12.5°	750.6	663.0	565.1	528.7	514.5	504.7	495.3	488.7	483.8	478.9	477.5
15°	801.2	694.1	584.3	545.1	527.3	514.0	502.9	492.7	486.0	478.9	478.0
17.5°	851.0	725.7	600.3	556.2	533.6	517.1	501.1	487.8	479.3	471.3	469.1
20°	910.6	757.2	611.4	559.4	532.2	510.5	491.3	474.4	465.1	455.8	454.4
22.5°	965.3	786.6	616.7	554.9	522.0	496.2	474.0	455.8	445.5	436.2	434.4
25°	1018.2	812.4	614.5	544.2	506.4	476.7	453.5	435.3	425.5	415.7	413.1
27.5°	1069.4	829.7	605.6	527.8	486.9	454.9	432.6	416.2	407.7	399.3	395.7
30°	1119.6	845.7	591.8	506.4	462.0	432.2	414.0	402.4	394.0	385.1	382.4
32.5°	1170.3	857.3	570.9	481.5	436.6	412.2	401.1	392.6	383.7	374.8	372.2
35°	1221.4	862.2	545.6	453.1	415.3	399.3	395.3	385.5	373.5	362.8	359.3
37.5°	1282.4	866.6	514.0	425.1	396.6	393.1	392.2	377.5	363.3	348.6	344.6
40°	1355.7	872.4	481.5	399.7	381.5	390.8	387.3	367.3	338.8	324.6	320.1
42.5°	1445.5	883.1	447.8	376.6	370.4	382.4	378.4	342.4	323.3	315.3	313.0
45°	1577.6	922.2	414.0	358.4	361.9	370.4	364.2	327.7	320.1	314.8	312.1
47.5°	1812.8	982.2	384.6	344.6	355.3	359.7	335.7	323.7	317.9	310.8	307.7
50°	2057.4	1008.5	361.1	336.2	347.7	349.9	320.1	318.4	314.4	306.8	303.7
52.5°	2222.8	1004.9	346.8	333.0	341.5	333.0	313.0	312.6	309.9	301.0	297.5
55°	2409.5	1011.1	340.6	333.9	338.8	304.6	304.1	305.5	304.1	294.4	292.6
57.5°	2661.6	1030.2	337.5	337.0	337.0	290.8	295.7	297.5	294.8	290.4	289.0
60°	2904.0	1031.6	331.7	340.6	335.7	282.3	285.9	287.7	284.6	283.7	283.2
62.5°	2995.1	967.5	318.8	337.9	330.4	273.0	275.7	276.6	273.5	275.7	275.2
65°	2859.5	831.5	297.5	325.0	313.9	264.6	262.8	265.0	259.7	265.5	265.9
67.5°	2538.9	660.7	265.0	300.6	290.8	255.2	251.7	251.7	242.8	251.7	251.2
70°	2047.1	466.9	217.4	261.5	265.5	244.1	242.3	232.1	217.9	231.2	229.9
72.5°	1551.8	335.3	171.2	206.8	228.5	228.5	229.0	211.7	195.2	201.4	196.1
75°	983.1	236.1	137.0	158.3	179.2	200.5	210.8	178.7	164.1	161.4	158.7
77.5°	442.9	155.2	106.7	121.4	127.2	158.3	192.5	153.8	133.8	128.1	126.3
80°	185.4	96.5	76.0	85.8	78.3	132.9	169.9	119.6	98.3	90.3	84.5
82.5°	81.4	57.4	48.5	46.2	48.9	98.7	126.7	79.6	61.4	83.1	84.0
85°	34.2	30.2	24.9	22.7	20.0	37.8	59.6	31.1	38.2	21.8	17.8
87.5°	8.0	8.9	6.7	4.4	2.7	0.4	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)