

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: P630422

Luminaire Tested: GWS-SA1D-750-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-750-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

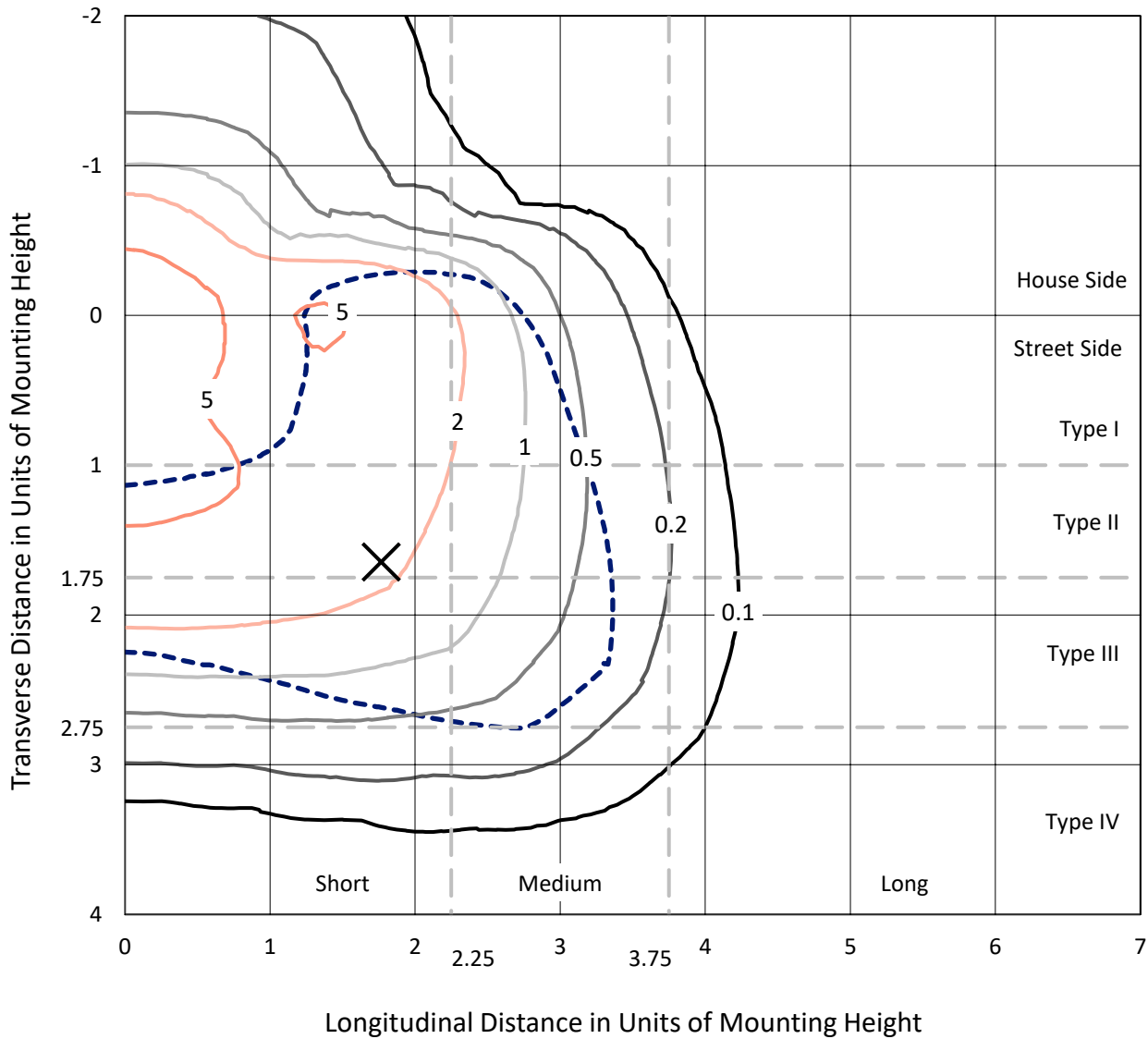
Lumens per Lamp: N/A  
Luminaire Lumens: 6149.6 lumens  
Efficiency: N/A  
Efficacy: 138.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

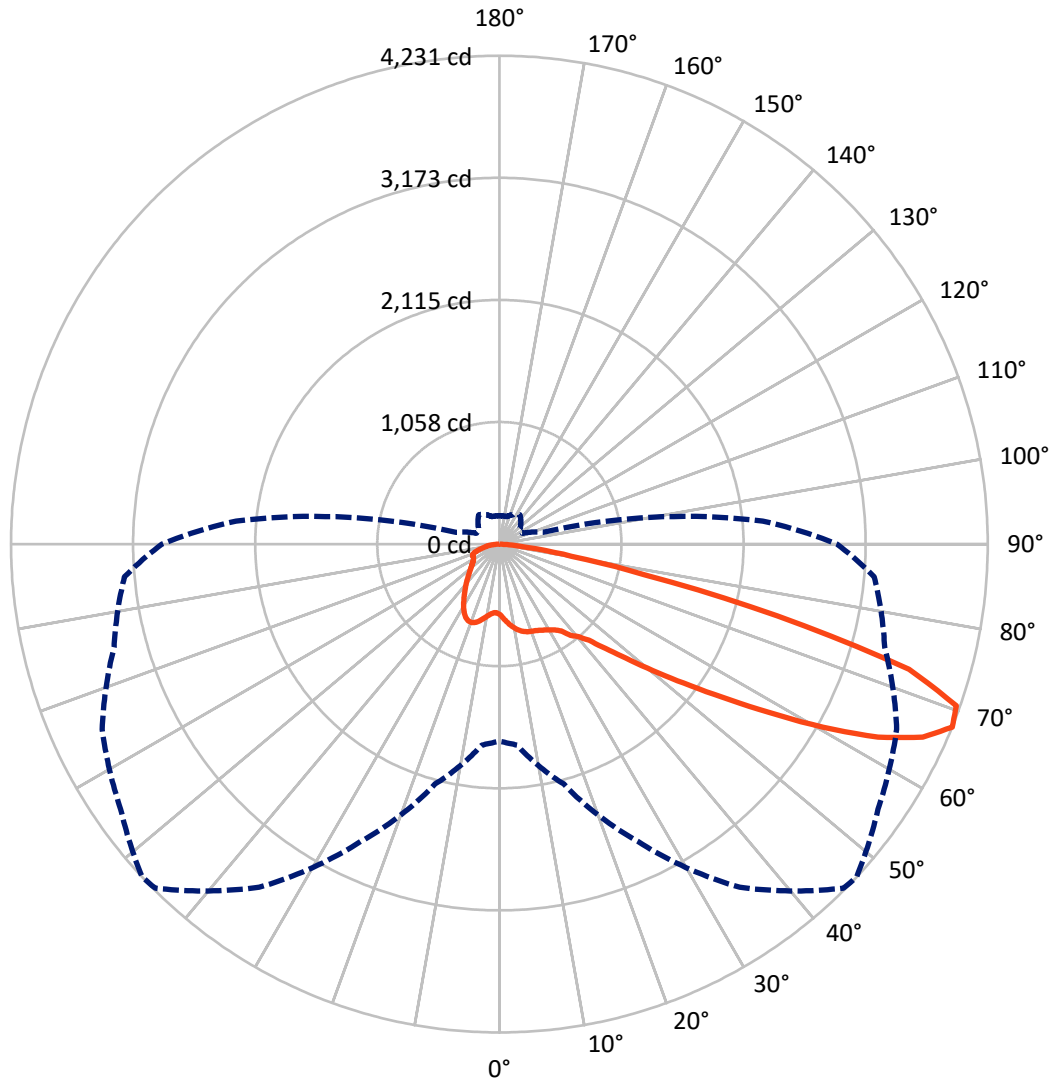
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1401.5	0.0	1401.5
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	4748.0	0.0	4748.0
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	6149.6	0.0	6149.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	1.0
10°-20°	207.6	3.4
20°-30°	352.8	5.7
30°-40°	516.8	8.4
40°-50°	787.5	12.8
50°-60°	1409.0	22.9
60°-70°	1880.1	30.6
70°-80°	850.2	13.8
80°-90°	83.3	1.4
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°	6149.6	100.0
0°-180°	6149.6	100.0

**Coefficient of Utilization**



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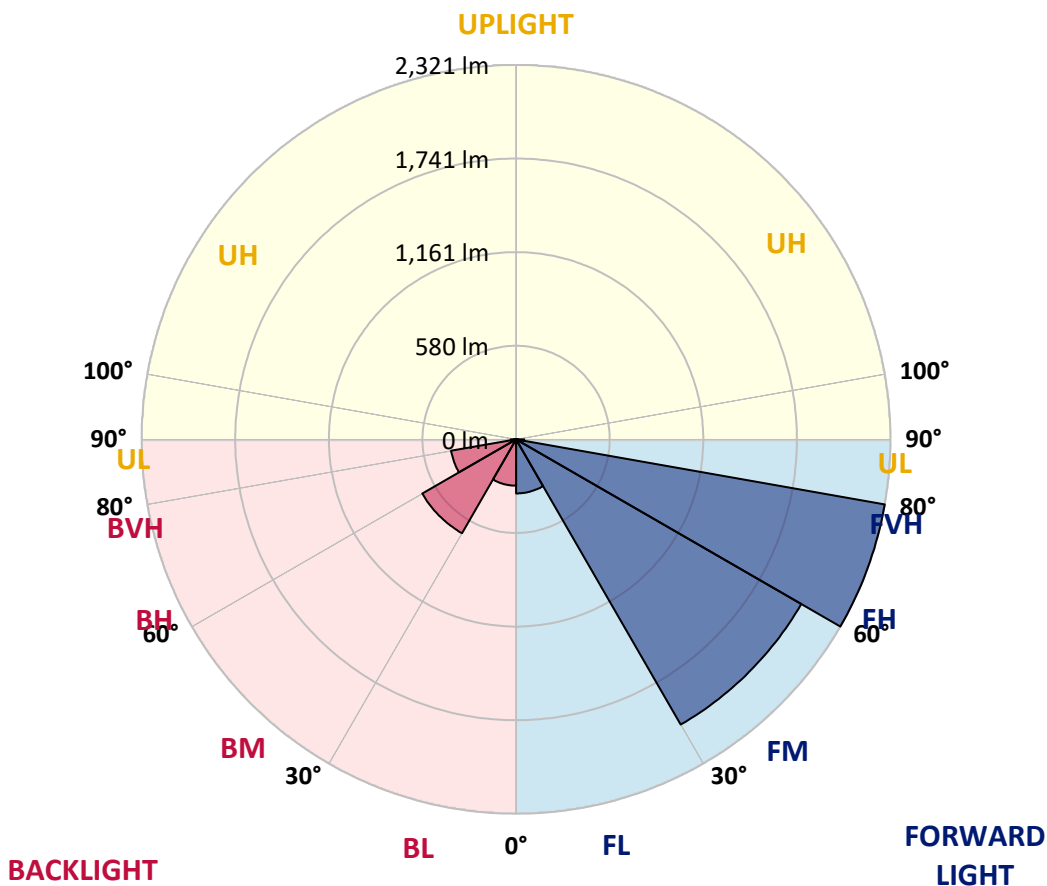
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.4	5.5			
FM (30°-60°)	2041.7	33.2			
FH (60°-80°)	2321.4	37.7			G2/5000
FVH (80°-90°)	49.5	0.8			G1/100
BL (0°-30°)	287.3	4.7	B1/500		
BM (30°-60°)	671.6	10.9	B1/1000		
BH (60°-80°)	408.9	6.6	B1/500		G1/500
BVH (80°-90°)	33.7	0.5			G1/100
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°	47°	55°	65°	75°	85°
0°	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6
2.5°	650.1	652.3	651.9	648.3	646.1	642.1	642.5	636.3	627.0	620.7	613.6
5°	707.4	711.0	706.6	700.8	691.9	679.0	677.7	663.4	645.6	633.2	620.3
7.5°	757.2	759.5	754.1	744.3	731.5	714.1	711.0	694.1	671.9	652.3	633.6
10°	795.9	798.6	791.5	778.6	761.7	744.3	742.1	724.8	701.2	678.1	654.5
12.5°	828.8	829.7	822.2	804.8	786.6	768.8	766.6	750.6	728.8	705.2	679.4
15°	848.0	848.4	839.1	819.9	802.6	787.0	785.7	771.9	751.9	729.7	702.1
17.5°	846.6	847.5	840.8	823.9	808.8	799.5	798.2	789.3	773.7	753.7	726.1
20°	830.2	831.1	826.6	815.5	807.5	804.8	805.3	802.6	793.3	776.8	748.8
22.5°	817.3	818.6	814.6	806.6	805.7	811.9	813.3	814.6	810.2	795.5	768.4
25°	823.5	825.7	819.5	808.4	810.2	823.9	826.6	831.1	827.5	815.0	791.5
27.5°	866.6	868.0	852.0	829.3	823.9	838.6	842.6	849.7	847.1	835.5	817.3
30°	966.7	965.8	931.5	876.0	853.7	859.5	862.6	872.9	873.7	866.2	848.8
32.5°	1107.6	1103.2	1050.3	961.8	897.3	883.1	886.6	900.4	910.7	902.6	879.1
35°	1256.6	1252.6	1194.3	1090.7	977.8	928.4	924.4	935.1	950.7	928.4	894.6
37.5°	1398.4	1392.2	1332.6	1204.6	1077.0	1008.0	1002.2	991.6	982.2	939.6	913.8
40°	1555.8	1548.7	1496.7	1351.7	1186.3	1068.9	1054.3	1012.0	1003.6	976.5	963.6
42.5°	1723.9	1723.9	1680.8	1538.1	1318.4	1156.1	1137.0	1073.4	1082.3	1064.5	1049.4
45°	1892.0	1896.9	1862.7	1725.7	1494.9	1320.6	1289.9	1199.7	1221.0	1213.0	1205.5
47.5°	2035.2	2044.5	2037.8	1917.3	1711.0	1520.7	1474.0	1380.2	1426.0	1445.1	1466.5
50°	2189.5	2199.7	2193.0	2145.5	1964.0	1763.1	1721.3	1624.3	1703.0	1760.4	1830.2
52.5°	2418.5	2433.1	2377.6	2359.3	2271.3	2038.3	2000.9	1890.7	2033.4	2128.6	2284.2
55°	2611.9	2611.5	2591.9	2633.7	2601.2	2374.9	2333.5	2233.5	2415.8	2516.7	2744.4
57.5°	2701.7	2712.4	2779.5	2897.8	2962.7	2786.2	2746.6	2644.4	2826.2	2878.7	3124.6
60°	2748.0	2761.3	2891.1	3125.0	3299.8	3235.3	3219.7	3089.5	3191.7	3185.5	3445.2
62.5°	2683.0	2709.7	2918.3	3229.1	3540.3	3686.6	3681.7	3484.7	3502.5	3441.6	3643.9
65°	2385.1	2414.0	2741.3	3177.0	3677.7	4029.9	4031.2	3842.7	3741.3	3566.1	3610.6
67.5°	1705.7	1747.0	2151.7	2842.7	3629.3	4215.3	4230.9	4005.0	3797.3	3455.8	3260.2
70°	929.8	960.0	1277.0	2066.3	3192.6	4170.9	4199.8	3926.7	3550.1	2989.4	2509.6
72.5°	422.4	432.2	594.1	1133.9	2181.0	3590.1	3711.1	3504.3	2915.6	2208.1	1595.9
75°	193.4	197.9	258.8	542.5	1139.6	2402.5	2487.4	2610.1	2029.0	1394.4	831.9
77.5°	121.4	122.7	147.2	248.1	568.3	1199.2	1288.6	1554.1	1188.1	690.1	347.7
80°	71.6	72.9	91.6	134.3	266.8	548.7	633.6	614.5	558.5	297.9	158.3
82.5°	36.0	37.4	52.9	76.5	145.4	218.3	257.0	258.3	208.1	161.4	89.4
85°	12.9	13.3	17.3	30.2	61.8	72.0	80.5	98.3	101.8	93.8	43.1
87.5°	0.0	0.0	0.4	0.9	1.8	7.1	7.6	14.2	29.8	33.3	17.3
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°	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6
2.5°	611.4	604.7	602.5	600.3	596.7	595.4	592.7	590.1	590.1	587.4	586.1
5°	614.5	605.6	599.8	597.2	594.9	596.3	596.3	597.2	600.3	598.5	599.4
7.5°	625.6	615.4	607.4	605.2	605.2	610.5	614.1	618.5	624.3	625.2	625.2
10°	645.2	633.2	624.7	623.4	625.6	633.2	638.5	643.9	651.0	651.4	652.3
12.5°	666.5	654.5	646.1	647.9	650.1	659.9	665.6	670.1	677.2	677.2	676.8
15°	688.8	675.4	668.3	671.9	678.5	689.7	690.5	691.0	694.5	693.7	693.2
17.5°	711.9	697.7	692.3	697.7	704.8	710.1	705.7	699.4	698.1	696.3	695.4
20°	734.6	719.9	717.7	721.7	723.9	719.4	705.7	694.1	688.8	686.1	685.2
22.5°	754.1	741.7	740.3	740.3	729.2	713.7	693.2	677.7	670.5	667.0	666.1
25°	777.3	765.7	763.5	751.5	723.0	694.5	667.0	652.8	647.0	645.2	645.6
27.5°	804.4	796.4	789.3	755.0	705.2	660.8	629.6	623.4	621.2	623.4	624.7
30°	837.7	829.7	813.7	750.6	676.8	616.7	586.9	586.5	593.2	598.9	599.8
32.5°	864.9	861.3	835.1	736.3	636.7	568.3	542.9	544.7	556.7	564.7	566.0
35°	886.2	892.0	852.8	712.8	589.2	522.5	502.5	503.3	510.0	521.1	521.6
37.5°	916.4	936.0	868.9	676.8	534.5	482.9	464.7	458.0	457.1	460.2	461.1
40°	977.3	1006.7	880.4	624.3	481.6	447.3	426.9	414.0	402.9	394.4	391.7
42.5°	1069.4	1103.2	887.1	560.7	434.4	412.2	389.1	372.6	353.1	335.3	329.0
45°	1238.4	1249.5	887.1	493.1	392.6	379.3	356.2	336.6	311.7	290.8	286.4
47.5°	1508.7	1473.1	888.0	427.8	355.7	350.4	330.4	308.1	280.6	263.2	260.6
50°	1916.0	1791.1	906.2	373.5	325.0	325.9	311.3	286.8	261.9	249.0	246.8
52.5°	2377.6	2182.8	955.1	333.5	299.3	305.9	297.9	274.4	252.1	241.0	238.8
55°	2811.5	2543.0	996.9	305.0	277.5	289.0	288.6	266.8	246.8	235.7	234.3
57.5°	3180.6	2789.8	990.7	281.9	258.8	273.5	280.1	261.9	243.2	233.9	232.6
60°	3410.0	2920.5	902.2	260.6	244.6	262.3	275.2	260.6	245.0	242.8	243.2
62.5°	3509.7	2896.5	732.3	244.6	235.2	257.0	280.6	269.9	261.5	266.8	269.9
65°	3354.9	2690.2	538.9	232.6	226.3	258.3	293.0	284.6	261.5	265.0	266.3
67.5°	2925.4	2290.0	389.5	220.5	215.2	262.3	310.8	282.4	246.3	246.3	243.7
70°	2108.1	1647.0	282.8	208.5	204.1	256.6	311.7	267.2	229.0	227.7	221.0
72.5°	1268.6	971.6	220.5	195.2	187.2	227.7	292.1	249.5	212.1	201.0	193.0
75°	659.0	486.9	185.0	180.5	160.5	193.0	267.2	221.9	181.4	171.6	167.2
77.5°	282.4	227.7	158.7	161.0	133.4	162.3	215.7	192.1	161.0	148.5	144.5
80°	139.2	129.4	125.4	128.9	106.7	125.4	185.9	168.1	136.5	122.3	116.5
82.5°	79.6	75.6	90.3	91.6	76.0	104.9	157.0	142.3	112.9	97.4	88.0
85°	36.9	39.6	54.7	55.1	47.1	72.0	102.7	80.0	60.0	49.8	47.6
87.5°	14.7	17.3	24.0	23.6	13.8	13.3	8.9	4.9	4.0	3.6	3.1
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)