

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: P630575

Luminaire Tested: GWS-SA1D-830-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630575  
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-830-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

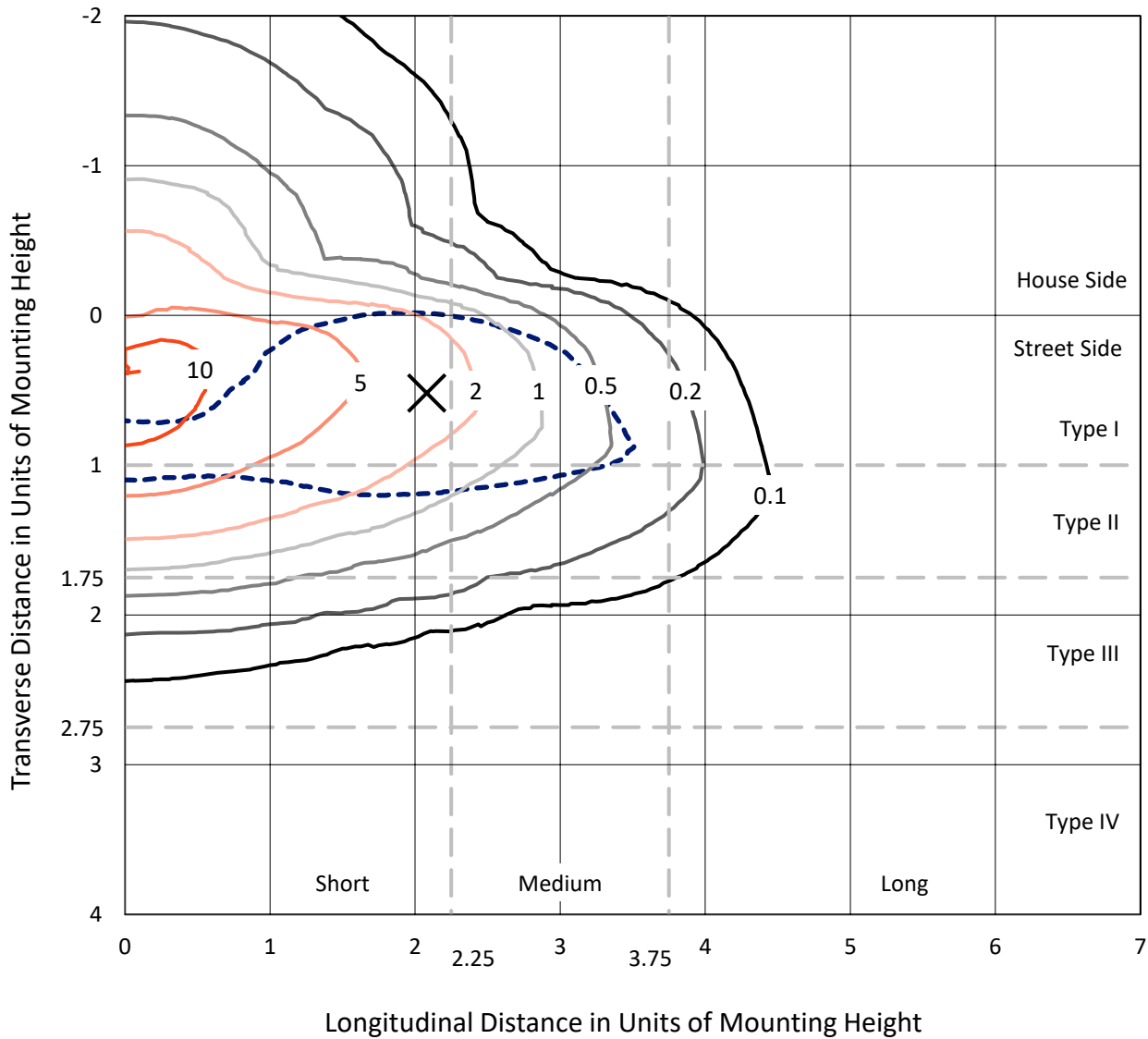
Lumens per Lamp: N/A  
Luminaire Lumens: 4911.8 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

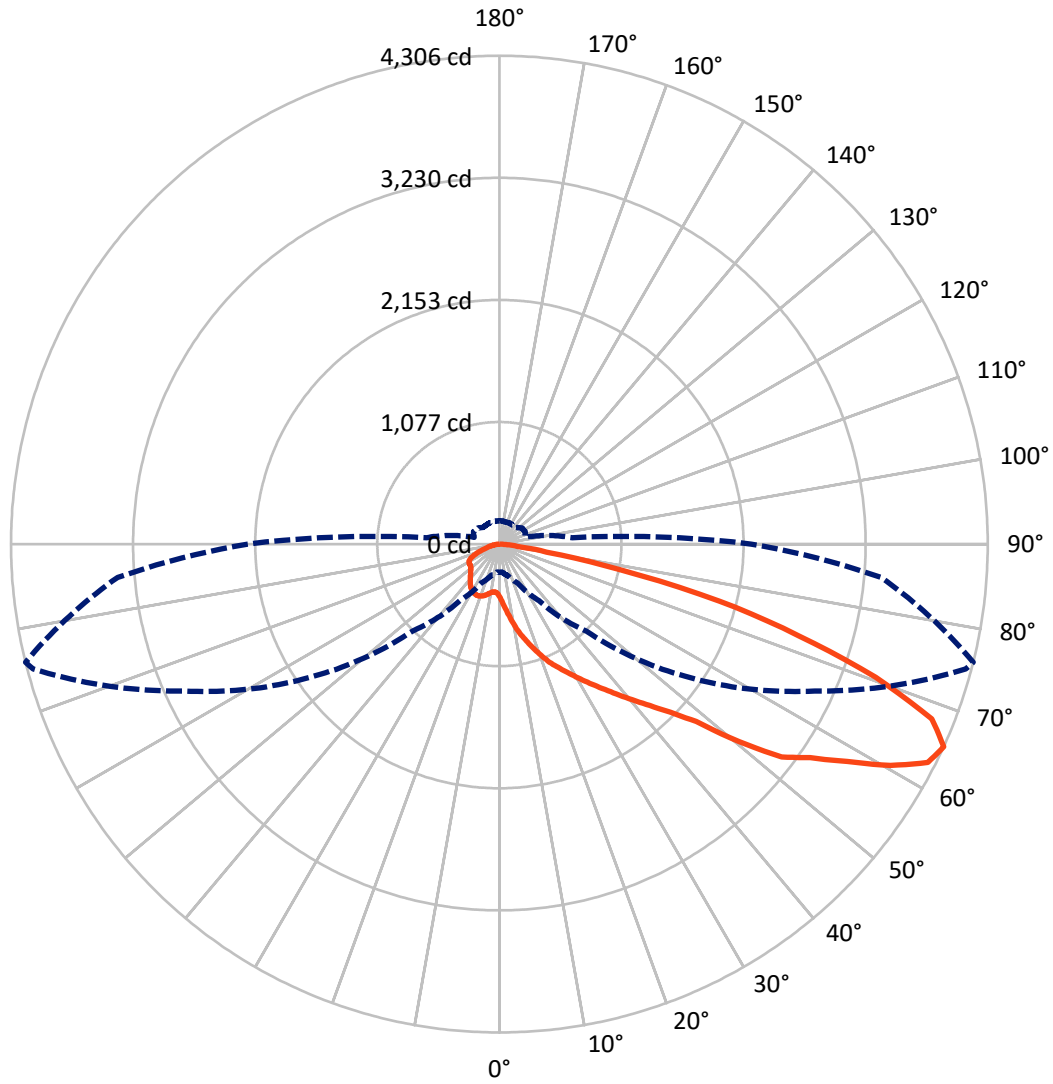
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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	821.0	0.0	821.0
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	4090.8	0.0	4090.8
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	4911.8	0.0	4911.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.3	1.1
10°-20°	210.5	4.3
20°-30°	410.2	8.4
30°-40°	686.0	14.0
40°-50°	982.3	20.0
50°-60°	1162.9	23.7
60°-70°	966.9	19.7
70°-80°	395.7	8.1
80°-90°	42.1	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°	4911.8	100.0
0°-180°	4911.8	100.0

**Coefficient of Utilization**



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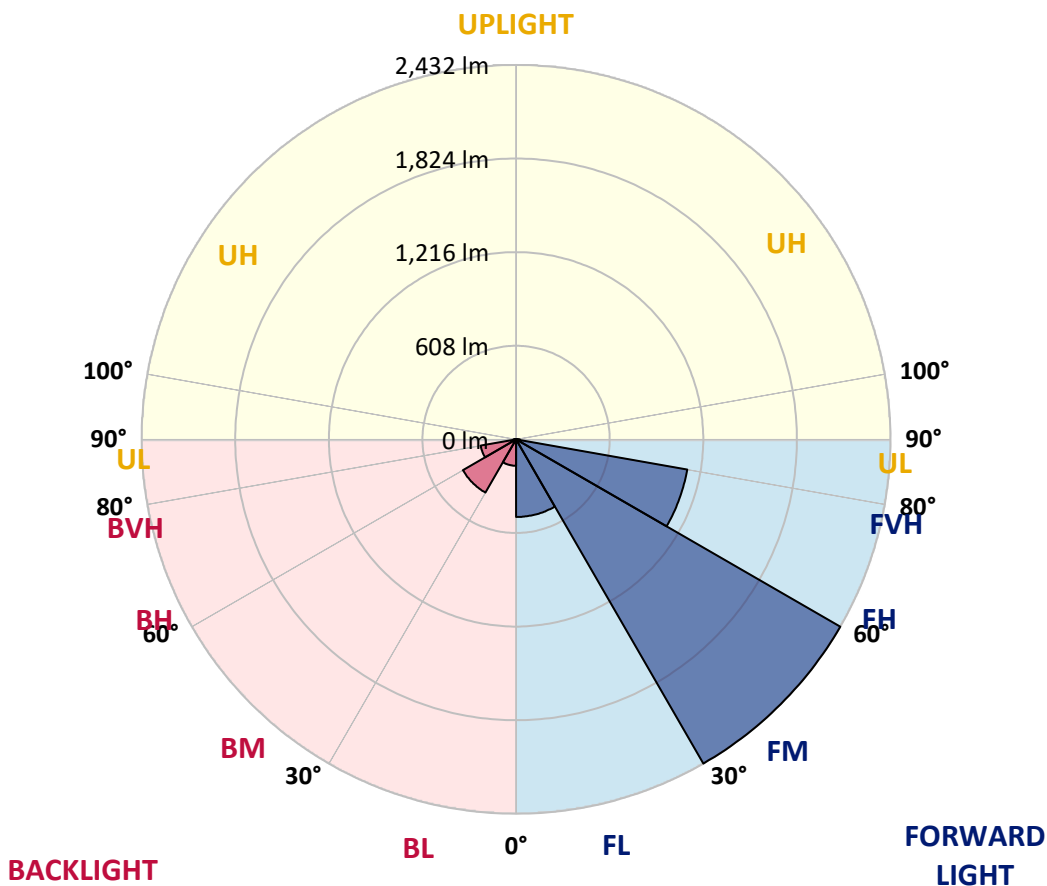
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.2	10.3			
FM (30°-60°)	2432.1	49.5			
FH (60°-80°)	1129.3	23.0			G1/1800
FVH (80°-90°)	25.1	0.5			G1/100
BL (0°-30°)	171.8	3.5	B1/500		
BM (30°-60°)	399.0	8.1	B1/1000		
BH (60°-80°)	233.3	4.7	B1/500		G1/500
BVH (80°-90°)	17.0	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°	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1
2.5°	651.9	654.4	646.4	643.7	625.0	599.8	578.7	547.0	517.6	513.1	486.9
5°	828.0	817.7	808.7	802.8	776.9	748.3	703.7	644.0	581.5	573.9	517.3
7.5°	932.7	930.9	919.9	916.4	896.4	867.8	821.8	747.6	656.8	644.3	558.4
10°	1016.6	1015.5	1010.0	1013.1	994.8	966.9	922.3	845.7	739.3	726.9	604.3
12.5°	1089.8	1091.5	1090.5	1101.9	1092.6	1070.8	1024.5	940.3	821.8	808.4	660.2
15°	1143.3	1144.7	1149.9	1174.7	1179.9	1175.4	1128.5	1033.2	903.3	884.0	717.9
17.5°	1158.5	1161.3	1173.7	1213.8	1241.7	1260.4	1225.5	1127.8	983.4	962.4	776.6
20°	1178.9	1182.0	1194.4	1236.2	1277.3	1319.8	1313.6	1223.8	1064.2	1047.0	836.0
22.5°	1273.1	1270.7	1265.2	1285.2	1314.6	1367.4	1383.0	1316.0	1147.8	1131.2	901.6
25°	1454.8	1450.3	1415.1	1396.8	1387.1	1419.2	1446.8	1399.9	1229.3	1204.4	962.7
27.5°	1655.1	1652.6	1607.8	1564.2	1504.9	1491.0	1507.3	1473.1	1308.4	1283.2	1015.9
30°	1844.6	1837.4	1790.4	1735.9	1656.4	1597.0	1573.2	1544.9	1395.0	1368.8	1078.1
32.5°	2014.2	2004.9	1949.6	1889.2	1806.0	1735.9	1664.7	1621.2	1493.1	1462.7	1141.6
35°	2153.3	2144.0	2087.4	2023.2	1931.7	1879.9	1782.5	1704.1	1592.9	1562.2	1216.5
37.5°	2261.1	2252.4	2193.4	2130.2	2050.4	2009.3	1924.7	1797.3	1707.9	1675.8	1295.9
40°	2321.5	2315.3	2268.0	2217.9	2150.9	2115.4	2077.4	1915.1	1836.7	1804.6	1389.5
42.5°	2339.8	2335.7	2302.5	2276.6	2231.4	2204.4	2226.2	2053.5	1974.1	1946.2	1494.8
45°	2293.9	2293.9	2284.2	2297.3	2299.4	2299.1	2375.4	2210.0	2143.0	2112.2	1643.3
47.5°	2176.5	2184.1	2198.2	2262.8	2330.8	2387.8	2549.8	2418.5	2360.2	2335.0	1853.6
50°	1961.7	1982.4	2030.8	2156.8	2301.5	2446.5	2714.8	2726.9	2782.5	2737.9	2163.0
52.5°	1647.1	1644.0	1767.3	1946.8	2167.5	2448.9	2805.6	2999.0	3148.5	3117.8	2393.0
55°	1309.1	1303.9	1418.9	1666.5	1962.0	2356.4	2860.2	3123.7	3351.6	3323.9	2599.8
57.5°	1002.4	995.9	1098.1	1321.5	1672.0	2159.9	2849.8	3272.1	3630.9	3616.8	2880.9
60°	689.9	682.0	777.6	973.1	1328.7	1859.5	2735.2	3348.4	3957.9	3962.7	3181.7
62.5°	414.4	409.9	479.3	630.9	955.8	1487.2	2466.9	3302.2	4218.3	4240.0	3375.0
65°	250.0	246.9	287.6	376.4	606.4	1085.3	2053.2	3065.6	4255.9	4306.0	3379.5
67.5°	182.0	182.3	194.1	229.3	353.6	701.0	1540.8	2641.6	4059.8	4111.6	3166.5
70°	158.2	158.8	165.1	173.0	213.7	401.2	1001.7	2085.3	3480.0	3520.1	2655.8
72.5°	140.5	140.5	144.7	148.8	167.1	244.5	536.6	1457.5	2746.6	2757.3	2027.0
75°	123.6	122.6	124.7	126.7	145.0	170.9	261.1	1015.5	2028.7	2003.8	1310.1
77.5°	98.4	97.4	97.7	99.8	116.4	122.2	132.3	634.3	1143.3	1079.1	578.7
80°	70.1	69.4	73.2	78.4	86.0	74.9	82.9	307.0	453.4	422.0	224.4
82.5°	41.8	43.2	49.0	53.2	59.4	47.0	53.5	102.6	160.6	156.4	91.2
85°	5.9	6.2	17.6	20.4	25.6	18.3	28.3	46.3	64.2	68.7	32.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	8.3	18.3	18.6	7.9
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°	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1	465.1
2.5°	473.4	457.2	434.1	414.7	398.5	385.4	374.3	366.0	363.6	360.2	360.2
5°	490.7	461.3	419.9	390.5	373.6	363.6	356.7	353.2	351.5	349.5	348.4
7.5°	514.5	473.4	417.5	387.8	374.7	368.4	364.0	361.9	360.5	358.4	358.4
10°	547.3	491.4	425.1	397.4	387.1	380.9	375.7	372.2	369.1	366.0	365.3
12.5°	582.9	514.9	438.9	410.6	399.5	391.9	384.7	379.5	375.7	371.9	370.9
15°	622.2	539.0	453.7	423.3	409.5	399.2	390.5	382.6	377.4	371.9	371.2
17.5°	660.9	563.5	466.2	432.0	414.4	401.6	389.2	378.8	372.2	366.0	364.3
20°	707.2	588.1	474.8	434.4	413.3	396.4	381.6	368.4	361.2	353.9	352.9
22.5°	749.7	610.8	478.9	430.9	405.4	385.4	368.1	353.9	346.0	338.7	337.4
25°	790.8	630.9	477.2	422.7	393.3	370.2	352.2	338.1	330.5	322.9	320.8
27.5°	830.5	644.3	470.3	409.9	378.1	353.2	336.0	323.2	316.6	310.1	307.3
30°	869.5	656.8	459.6	393.3	358.8	335.6	321.5	312.5	305.9	299.0	297.0
32.5°	908.8	665.8	443.4	374.0	339.1	320.1	311.5	304.9	298.0	291.1	289.0
35°	948.6	669.6	423.7	351.9	322.5	310.1	307.0	299.4	290.1	281.8	279.0
37.5°	995.9	673.0	399.2	330.1	308.0	305.3	304.6	293.2	282.1	270.7	267.6
40°	1052.8	677.5	374.0	310.4	296.3	303.5	300.8	285.2	263.1	252.1	248.6
42.5°	1122.6	685.8	347.7	292.5	287.6	297.0	293.9	265.9	251.0	244.8	243.1
45°	1225.2	716.2	321.5	278.3	281.1	287.6	282.8	254.5	248.6	244.5	242.4
47.5°	1407.8	762.8	298.7	267.6	275.9	279.4	260.7	251.4	246.9	241.4	239.0
50°	1597.7	783.2	280.4	261.1	270.0	271.8	248.6	247.2	244.1	238.3	235.8
52.5°	1726.2	780.4	269.3	258.6	265.2	258.6	243.1	242.8	240.7	233.8	231.0
55°	1871.2	785.2	264.5	259.3	263.1	236.5	236.2	237.2	236.2	228.6	227.2
57.5°	2067.0	800.1	262.1	261.7	261.7	225.8	229.6	231.0	228.9	225.5	224.4
60°	2255.2	801.1	257.6	264.5	260.7	219.3	222.0	223.4	221.0	220.3	220.0
62.5°	2326.0	751.4	247.6	262.4	256.6	212.0	214.1	214.8	212.4	214.1	213.7
65°	2220.7	645.7	231.0	252.4	243.8	205.5	204.1	205.8	201.7	206.1	206.5
67.5°	1971.7	513.1	205.8	233.4	225.8	198.2	195.4	195.4	188.5	195.4	195.1
70°	1589.8	362.6	168.9	203.0	206.1	189.6	188.2	180.3	169.2	179.6	178.5
72.5°	1205.1	260.4	132.9	160.6	177.5	177.5	177.8	164.4	151.6	156.4	152.3
75°	763.5	183.4	106.4	122.9	139.2	155.7	163.7	138.8	127.4	125.3	123.3
77.5°	343.9	120.5	82.9	94.3	98.8	122.9	149.5	119.5	103.9	99.4	98.1
80°	144.0	74.9	59.0	66.6	60.8	103.2	131.9	92.9	76.3	70.1	65.6
82.5°	63.2	44.5	37.6	35.9	38.0	76.7	98.4	61.8	47.7	64.6	65.3
85°	26.6	23.5	19.3	17.6	15.5	29.4	46.3	24.2	29.7	16.9	13.8
87.5°	6.2	6.9	5.2	3.5	2.1	0.3	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)