

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: P631960

Luminaire Tested: GWS-SA2B-760-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-760-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

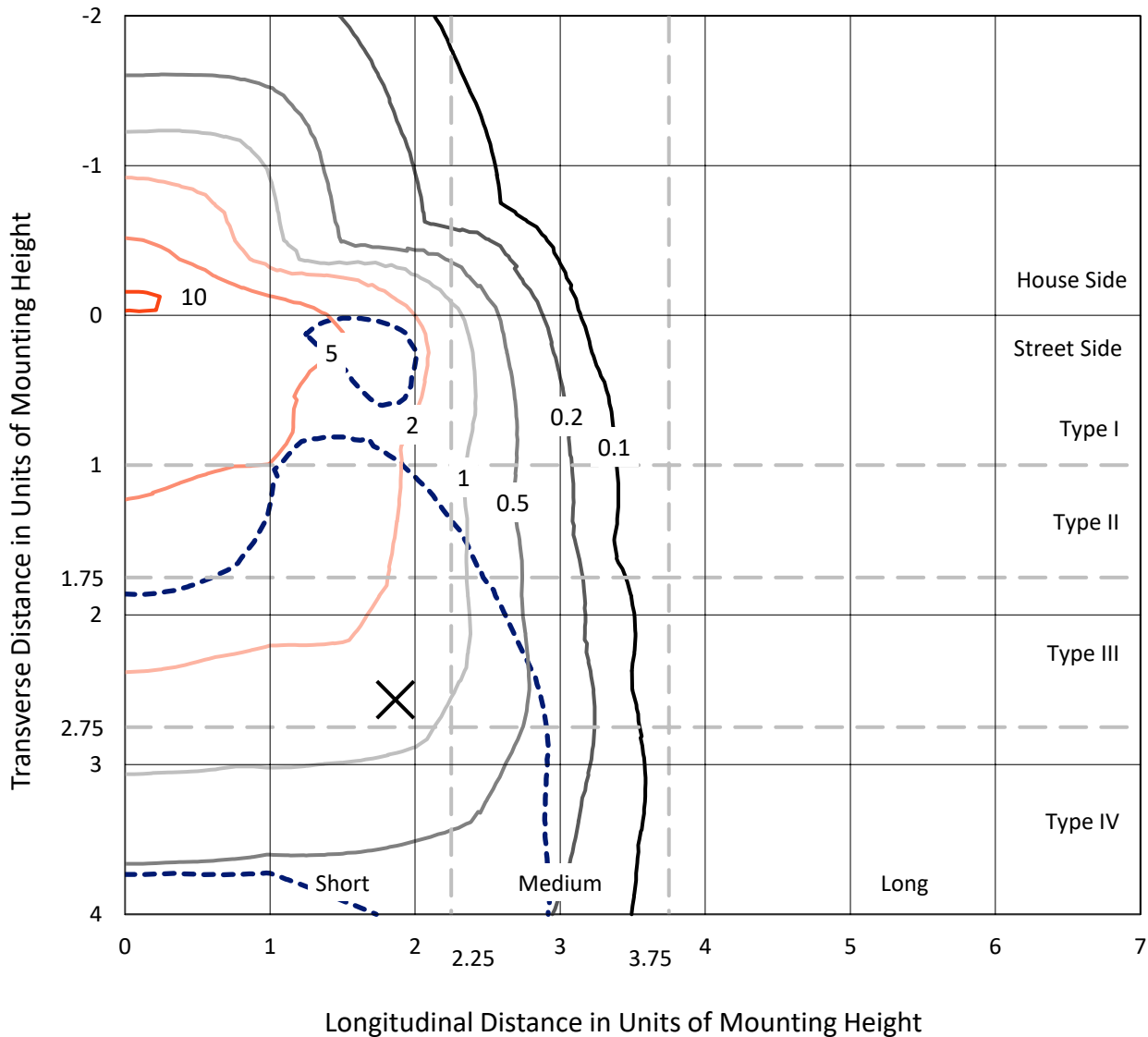
Lumens per Lamp: N/A  
Luminaire Lumens: 6725.3 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

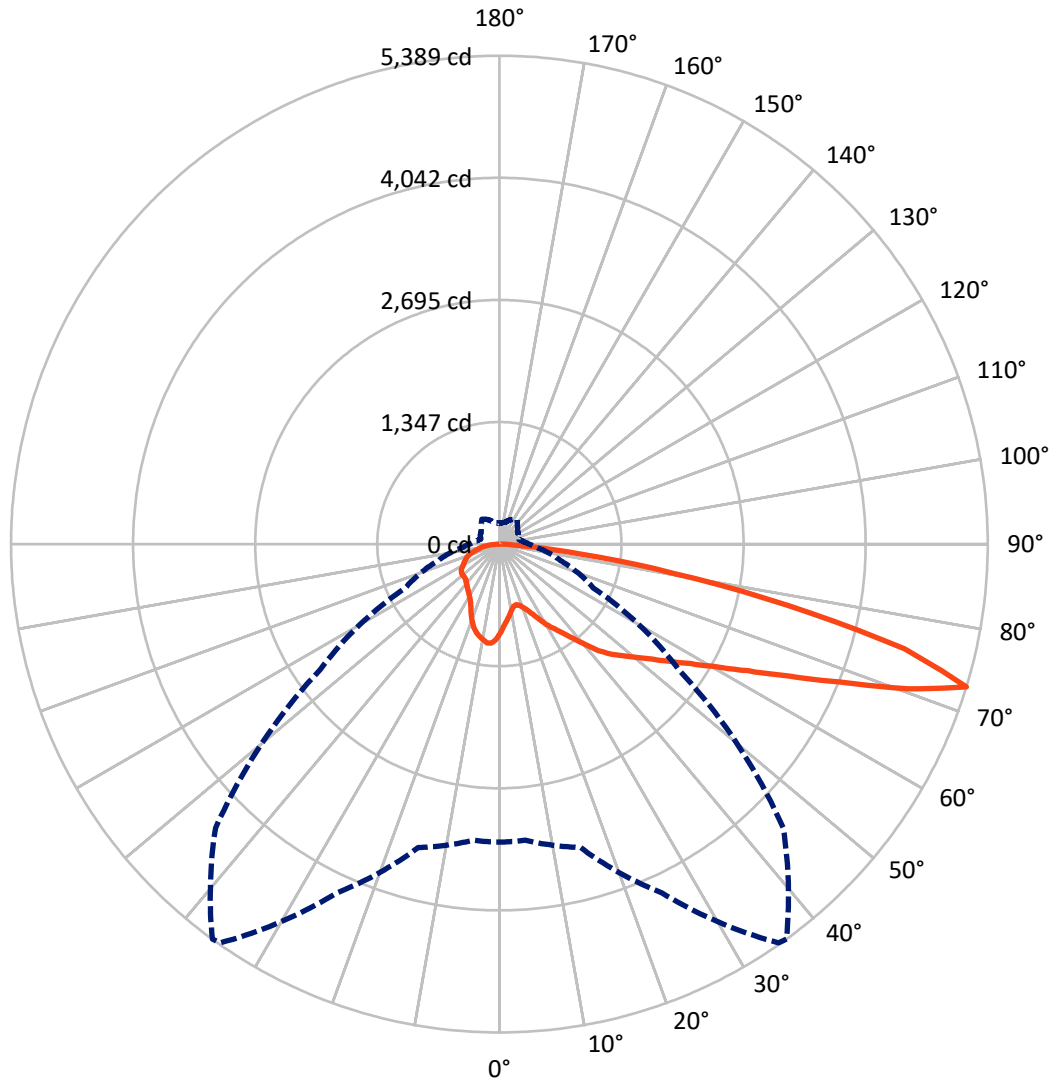
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1550.5	0.0	1550.5
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	5174.8	0.0	5174.8
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	6725.3	0.0	6725.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	1.4
10°-20°	259.6	3.9
20°-30°	429.9	6.4
30°-40°	643.8	9.6
40°-50°	939.3	14.0
50°-60°	1336.8	19.9
60°-70°	1689.0	25.1
70°-80°	1203.6	17.9
80°-90°	131.4	2.0
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°	6725.3	100.0
0°-180°	6725.3	100.0

**Coefficient of Utilization**



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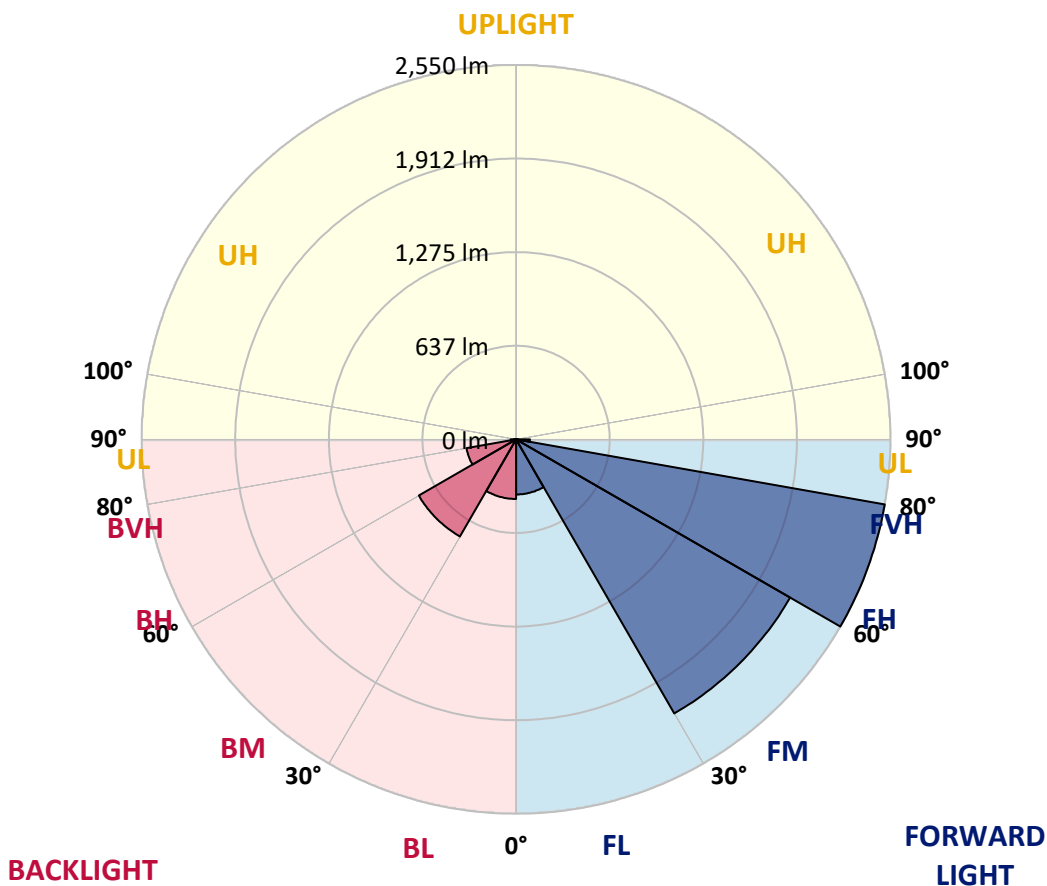
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.5	5.6			
FM (30°-60°)	2155.3	32.0			
FH (60°-80°)	2549.8	37.9			G2/5000
FVH (80°-90°)	94.3	1.4			G1/100
BL (0°-30°)	406.0	6.0	B1/500		
BM (30°-60°)	764.6	11.4	B1/1000		
BH (60°-80°)	342.8	5.1	B1/500		G1/500
BVH (80°-90°)	37.1	0.6			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3
2.5°	897.9	896.4	893.4	902.4	911.4	910.4	922.9	934.9	947.8	961.3	979.3
5°	826.1	825.1	822.6	836.0	849.5	849.0	869.5	888.9	915.4	944.3	980.3
7.5°	754.2	751.7	755.2	772.1	791.1	793.1	821.1	853.0	891.4	934.9	985.8
10°	690.8	690.3	691.8	710.8	739.2	741.2	777.1	821.6	872.5	930.4	998.3
12.5°	674.3	673.3	669.3	678.8	700.3	703.3	742.7	797.1	859.5	932.9	1015.2
15°	701.3	698.8	684.8	680.3	690.8	693.3	726.7	782.6	852.0	937.4	1036.7
17.5°	747.7	746.2	719.7	701.3	708.3	710.3	735.2	780.1	850.0	946.3	1063.1
20°	815.6	809.1	767.7	739.7	739.7	742.7	757.7	791.1	852.5	957.3	1093.1
22.5°	905.4	892.4	834.0	796.1	786.1	790.1	796.6	818.6	863.0	975.8	1130.5
25°	1006.2	994.3	924.9	871.5	857.5	859.0	853.5	857.5	885.9	1001.2	1176.9
27.5°	1113.6	1105.6	1031.7	963.8	941.9	941.9	922.4	912.9	917.9	1030.2	1228.8
30°	1209.4	1198.4	1136.0	1061.6	1032.7	1032.7	995.8	975.3	963.3	1065.6	1298.2
32.5°	1259.8	1253.3	1211.9	1155.0	1119.5	1114.1	1082.1	1058.1	1030.2	1118.0	1392.1
35°	1325.7	1324.2	1299.2	1254.8	1209.9	1201.9	1179.9	1161.0	1112.6	1183.4	1516.8
37.5°	1408.5	1406.0	1402.0	1375.6	1321.7	1320.2	1300.7	1277.8	1214.9	1277.8	1668.1
40°	1501.4	1496.9	1491.9	1491.4	1458.9	1453.5	1452.0	1426.0	1338.2	1391.6	1825.8
42.5°	1629.1	1613.7	1566.8	1587.7	1611.7	1606.7	1625.7	1586.7	1491.9	1526.8	1975.0
45°	1786.4	1748.4	1655.6	1661.6	1722.0	1732.0	1797.9	1788.4	1661.1	1683.1	2132.3
47.5°	1880.7	1847.8	1761.4	1756.4	1831.8	1844.3	1987.5	2005.5	1843.3	1871.2	2326.4
50°	1958.1	1935.1	1864.2	1871.2	1951.1	1963.6	2175.7	2214.1	2015.0	2063.9	2552.0
52.5°	2051.4	2018.5	1963.6	1996.5	2094.3	2109.3	2384.8	2426.3	2169.7	2275.5	2785.6
55°	2103.8	2090.3	2091.3	2141.8	2264.5	2285.0	2603.9	2597.0	2311.5	2456.7	2961.3
57.5°	2224.6	2219.6	2265.5	2284.5	2463.2	2489.6	2823.1	2763.2	2440.2	2597.0	3045.7
60°	2437.7	2425.3	2465.2	2494.1	2708.8	2746.2	3067.6	2925.9	2527.6	2701.3	3017.2
62.5°	2737.2	2721.7	2723.2	2769.2	3037.7	3077.1	3339.7	3061.6	2554.5	2717.2	2837.0
65°	3109.6	3087.1	3061.6	3124.0	3474.4	3507.4	3635.6	3160.5	2490.1	2563.5	2460.7
67.5°	3502.4	3483.9	3454.0	3584.7	4039.9	4059.9	3967.6	3152.0	2286.0	2152.2	1726.0
70°	3525.3	3529.8	3671.6	4144.7	4778.1	4783.1	4281.5	2981.3	1851.3	1395.1	860.0
72.5°	3288.7	3281.3	3465.9	4247.1	5372.1	5389.1	4429.7	2415.3	1144.0	695.8	403.3
75°	2671.3	2684.3	2878.5	3716.0	4604.4	4619.4	3611.2	1424.0	543.5	340.4	258.0
77.5°	1150.0	1222.4	1605.2	2617.9	3297.7	3251.3	1861.2	577.0	290.0	242.6	197.7
80°	331.9	360.4	572.0	1244.8	1976.0	1941.1	736.7	216.1	202.1	182.2	141.8
82.5°	107.3	118.8	209.6	495.6	885.5	884.5	279.5	127.8	132.3	123.8	91.3
85°	29.9	34.4	64.4	150.2	274.0	268.5	80.9	60.4	70.4	71.4	45.4
87.5°	0.0	0.0	0.5	1.0	1.0	1.0	2.0	9.0	20.5	26.0	18.5
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°	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3	984.3
2.5°	990.3	988.8	1009.2	1025.2	1040.2	1050.2	1053.2	1055.2	1059.1	1061.1	1059.1
5°	997.3	1004.7	1038.7	1063.6	1083.6	1095.6	1096.1	1095.1	1098.1	1095.6	1094.1
7.5°	1012.2	1026.7	1069.6	1096.1	1109.1	1109.6	1097.6	1083.6	1076.6	1070.6	1068.6
10°	1032.2	1053.7	1100.6	1118.0	1114.1	1095.6	1069.1	1047.2	1034.7	1025.7	1023.7
12.5°	1059.6	1083.6	1128.0	1127.5	1102.6	1069.6	1038.7	1012.2	994.3	983.8	980.3
15°	1085.6	1116.0	1148.0	1124.5	1085.1	1045.2	1005.2	969.8	945.8	929.4	926.4
17.5°	1117.5	1150.0	1162.5	1115.0	1063.1	1011.7	958.3	911.9	879.5	860.0	858.5
20°	1154.5	1183.4	1169.5	1098.6	1034.7	967.3	894.9	843.0	808.1	789.1	790.6
22.5°	1197.4	1218.4	1171.5	1076.1	995.3	904.4	823.6	773.6	750.2	740.2	740.7
25°	1243.3	1256.8	1168.0	1045.7	934.9	827.6	750.2	727.2	725.2	722.7	723.7
27.5°	1297.7	1294.7	1157.5	1002.7	853.5	738.2	698.8	704.8	712.8	711.8	712.8
30°	1370.6	1342.2	1144.0	943.3	756.7	663.3	668.3	685.3	695.8	696.8	699.8
32.5°	1454.0	1394.6	1122.5	862.5	664.3	621.4	639.9	660.3	672.8	675.3	679.3
35°	1553.3	1454.5	1084.6	761.7	598.0	596.5	613.4	627.4	640.9	641.9	641.9
37.5°	1667.6	1514.4	1024.2	650.4	557.0	575.0	591.0	594.0	597.5	594.5	596.0
40°	1772.4	1572.2	938.4	549.0	523.6	556.0	569.5	559.5	548.5	541.1	542.6
42.5°	1860.2	1611.7	824.6	478.2	489.6	539.1	549.5	529.1	507.6	493.6	495.6
45°	1959.1	1648.1	690.8	430.2	460.7	527.1	534.1	507.6	480.2	459.2	456.2
47.5°	2095.3	1722.5	572.0	396.8	440.2	520.6	532.1	496.1	460.2	428.7	425.3
50°	2263.5	1827.8	472.7	374.8	430.7	517.1	531.6	483.7	440.7	403.8	401.3
52.5°	2447.2	1930.6	399.3	357.9	421.3	506.6	529.1	469.7	420.3	380.3	377.3
55°	2569.5	1971.1	349.9	341.9	405.8	490.1	519.1	456.2	389.3	352.9	348.4
57.5°	2605.4	1919.1	315.4	327.4	385.8	467.2	500.1	427.8	370.4	341.4	337.9
60°	2543.5	1788.4	294.0	315.4	363.9	437.7	467.2	411.3	355.4	329.4	326.9
62.5°	2368.9	1586.7	277.5	303.0	341.4	406.8	446.2	391.3	338.9	318.4	314.9
65°	2017.5	1301.2	264.0	290.0	319.9	377.3	423.3	371.4	320.9	305.5	301.5
67.5°	1411.0	913.9	249.6	274.5	298.5	348.9	399.3	352.9	302.5	291.0	287.0
70°	689.8	484.7	232.1	256.6	275.5	319.9	375.3	330.4	278.0	271.5	266.0
72.5°	328.4	271.0	211.6	232.1	244.1	281.5	335.4	298.0	249.1	235.1	225.6
75°	220.1	192.7	184.7	203.1	206.1	236.1	287.5	257.1	219.6	203.6	195.7
77.5°	166.7	147.2	155.2	171.7	165.7	194.2	236.6	229.1	198.2	183.7	179.7
80°	117.3	107.3	123.3	133.3	128.8	165.2	213.1	196.2	163.2	147.2	144.2
82.5°	73.9	71.9	90.8	92.3	93.8	130.8	175.2	154.2	126.8	104.3	96.8
85°	36.9	40.9	54.4	54.4	53.9	67.4	99.8	86.8	68.4	54.4	52.9
87.5°	12.5	17.5	23.5	19.0	14.5	11.5	13.0	16.0	17.0	16.5	16.5
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)