

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: P631467

Luminaire Tested: GWS-SA1F-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631467  
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-SA1F-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

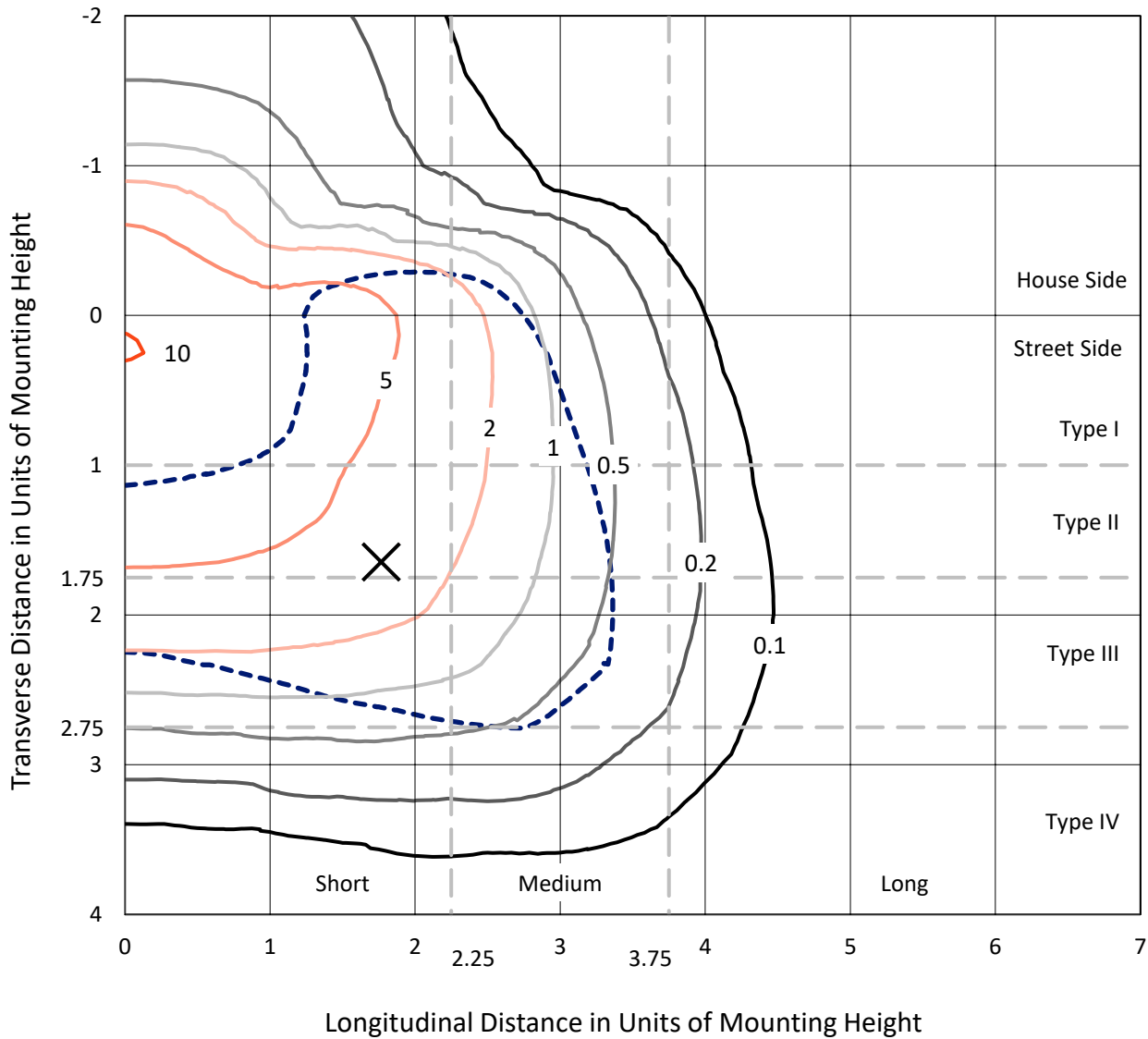
Lumens per Lamp: N/A  
Luminaire Lumens: 8427 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

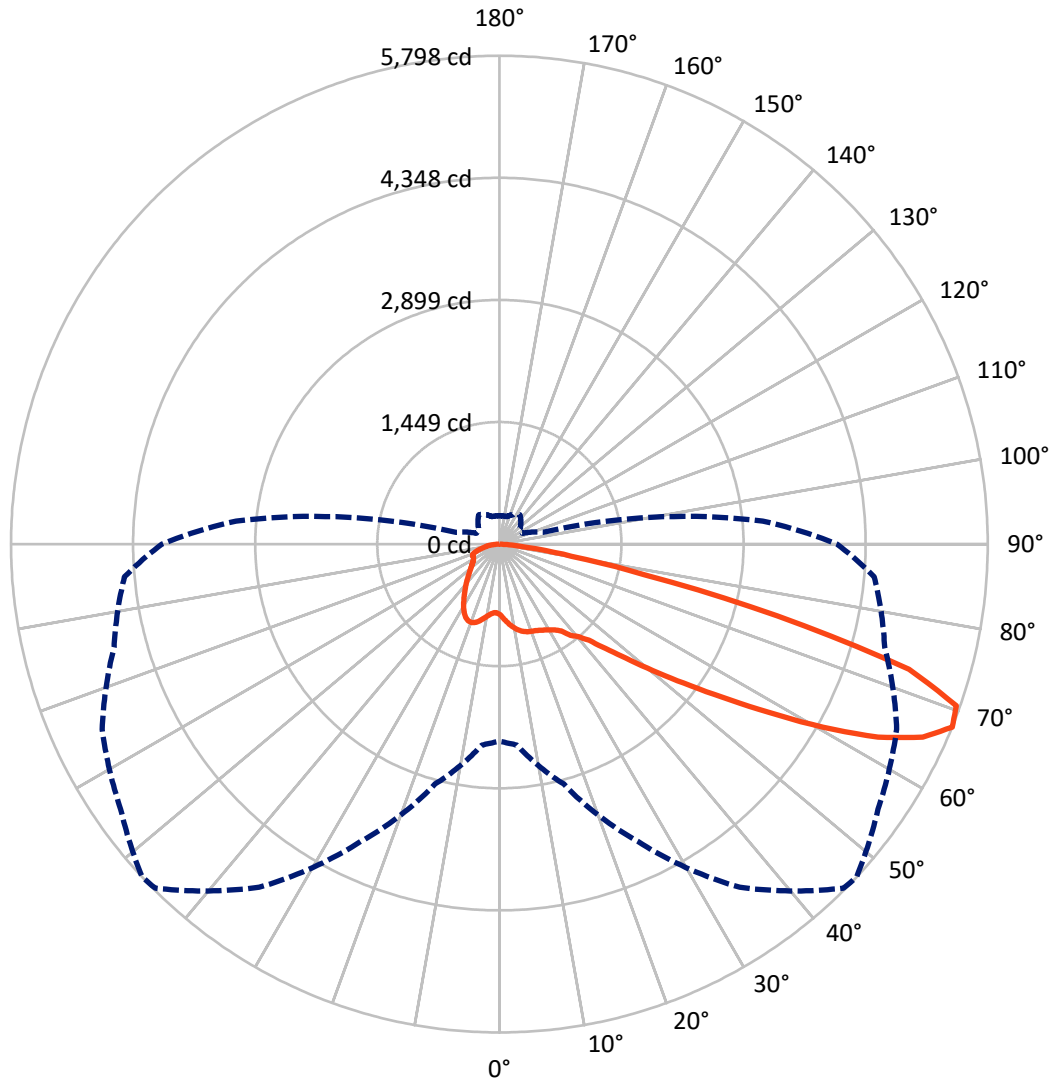
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 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	1920.6	0.0	1920.6
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	6506.4	0.0	6506.4
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	8427.0	0.0	8427.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	1.0
10°-20°	284.4	3.4
20°-30°	483.5	5.7
30°-40°	708.2	8.4
40°-50°	1079.1	12.8
50°-60°	1930.7	22.9
60°-70°	2576.4	30.6
70°-80°	1165.1	13.8
80°-90°	114.1	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°	8427.0	100.0
0°-180°	8427.0	100.0

**Coefficient of Utilization**



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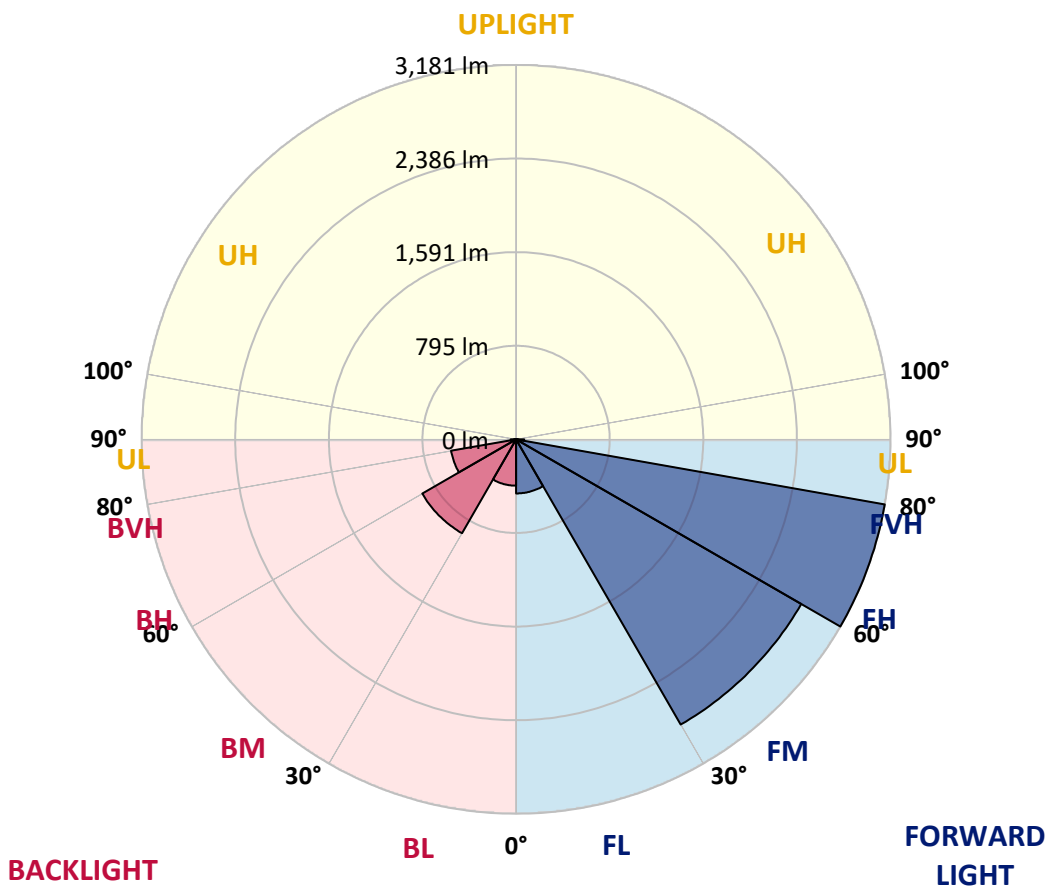
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.6	5.5			
FM (30°-60°)	2797.8	33.2			
FH (60°-80°)	3181.1	37.7			G2/5000
FVH (80°-90°)	67.9	0.8			G1/100
BL (0°-30°)	393.7	4.7	B1/500		
BM (30°-60°)	920.2	10.9	B1/1000		
BH (60°-80°)	560.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	46.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	835.4	835.4	835.4	835.4	835.4	835.4	835.4	835.4	835.4	835.4	835.4
2.5°	890.8	893.9	893.3	888.4	885.3	879.9	880.5	871.9	859.1	850.6	840.9
5°	969.4	974.3	968.2	960.3	948.1	930.4	928.6	909.1	884.7	867.7	850.0
7.5°	1037.7	1040.7	1033.4	1020.0	1002.3	978.6	974.3	951.2	920.7	893.9	868.3
10°	1090.7	1094.3	1084.6	1066.9	1043.8	1020.0	1017.0	993.2	960.9	929.2	896.9
12.5°	1135.8	1137.0	1126.6	1102.9	1077.9	1053.5	1050.5	1028.5	998.7	966.4	931.0
15°	1162.0	1162.6	1149.8	1123.6	1099.8	1078.5	1076.7	1057.8	1030.4	999.9	962.1
17.5°	1160.2	1161.4	1152.2	1129.1	1108.4	1095.6	1093.7	1081.5	1060.2	1032.8	995.0
20°	1137.6	1138.8	1132.7	1117.5	1106.5	1102.9	1103.5	1099.8	1087.0	1064.5	1026.1
22.5°	1119.9	1121.8	1116.3	1105.3	1104.1	1112.6	1114.5	1116.3	1110.2	1090.1	1052.9
25°	1128.5	1131.5	1123.0	1107.7	1110.2	1129.1	1132.7	1138.8	1134.0	1116.9	1084.6
27.5°	1187.6	1189.4	1167.5	1136.4	1129.1	1149.2	1154.7	1164.4	1160.8	1144.9	1119.9
30°	1324.7	1323.5	1276.5	1200.4	1169.9	1177.8	1182.1	1196.1	1197.3	1187.0	1163.2
32.5°	1517.8	1511.7	1439.2	1318.0	1229.6	1210.1	1215.0	1233.9	1247.9	1236.9	1204.6
35°	1721.9	1716.5	1636.6	1494.7	1339.9	1272.3	1266.8	1281.4	1302.7	1272.3	1226.0
37.5°	1916.3	1907.8	1826.1	1650.7	1475.8	1381.3	1373.4	1358.8	1346.0	1287.5	1252.2
40°	2132.0	2122.3	2051.0	1852.3	1625.7	1464.8	1444.7	1386.8	1375.2	1338.1	1320.4
42.5°	2362.3	2362.3	2303.2	2107.6	1806.6	1584.2	1558.0	1470.9	1483.1	1458.7	1438.0
45°	2592.7	2599.4	2552.5	2364.8	2048.5	1809.7	1767.6	1644.0	1673.2	1662.2	1651.9
47.5°	2788.9	2801.7	2792.5	2627.4	2344.7	2083.9	2019.9	1891.3	1954.1	1980.3	2009.5
50°	3000.3	3014.3	3005.2	2940.0	2691.4	2416.0	2358.7	2225.9	2333.7	2412.3	2508.0
52.5°	3314.1	3334.2	3258.1	3233.1	3112.4	2793.1	2742.0	2590.8	2786.4	2916.8	3130.1
55°	3579.2	3578.6	3551.7	3609.0	3564.5	3254.4	3197.7	3060.6	3310.5	3448.8	3760.7
57.5°	3702.2	3716.9	3808.9	3971.0	4059.9	3818.0	3763.8	3623.6	3872.9	3944.8	4281.7
60°	3765.6	3783.9	3961.8	4282.3	4521.8	4433.4	4412.1	4233.6	4373.7	4365.2	4721.0
62.5°	3676.7	3713.2	3999.0	4424.9	4851.4	5051.9	5045.2	4775.3	4799.6	4716.2	4993.4
65°	3268.4	3308.0	3756.5	4353.6	5039.7	5522.3	5524.1	5265.8	5126.8	4886.8	4947.7
67.5°	2337.4	2394.0	2948.5	3895.4	4973.3	5776.4	5797.7	5488.2	5203.6	4735.7	4467.6
70°	1274.1	1315.5	1750.0	2831.5	4374.9	5715.5	5755.1	5380.9	4864.8	4096.5	3439.0
72.5°	578.9	592.3	814.1	1553.8	2988.7	4919.7	5085.4	4802.1	3995.3	3025.9	2186.9
75°	265.1	271.1	354.6	743.4	1561.7	3292.2	3408.6	3576.7	2780.3	1910.8	1140.0
77.5°	166.3	168.2	201.7	340.0	778.7	1643.3	1765.8	2129.6	1628.1	945.7	476.5
80°	98.1	99.9	125.5	184.0	365.6	751.9	868.3	842.1	765.3	408.2	216.9
82.5°	49.4	51.2	72.5	104.8	199.2	299.2	352.2	354.0	285.2	221.2	122.5
85°	17.7	18.3	23.8	41.4	84.7	98.7	110.3	134.7	139.5	128.6	59.1
87.5°	0.0	0.0	0.6	1.2	2.4	9.7	10.4	19.5	40.8	45.7	23.8
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°	835.4	835.4	835.4	835.4	835.4	835.4	835.4	835.4	835.4	835.4	835.4
2.5°	837.8	828.7	825.6	822.6	817.7	815.9	812.2	808.6	808.6	804.9	803.1
5°	842.1	829.9	822.0	818.3	815.3	817.1	817.1	818.3	822.6	820.1	821.4
7.5°	857.3	843.3	832.3	829.3	829.3	836.6	841.5	847.6	855.5	856.7	856.7
10°	884.1	867.7	856.1	854.3	857.3	867.7	875.0	882.3	892.0	892.7	893.9
12.5°	913.4	896.9	885.3	887.8	890.8	904.2	912.2	918.3	928.0	928.0	927.4
15°	943.8	925.6	915.8	920.7	929.8	945.1	946.3	946.9	951.8	950.5	949.9
17.5°	975.5	956.0	948.7	956.0	965.8	973.1	967.0	958.5	956.6	954.2	953.0
20°	1006.6	986.5	983.4	988.9	992.0	985.9	967.0	951.2	943.8	940.2	939.0
22.5°	1033.4	1016.4	1014.5	1014.5	999.3	978.0	949.9	928.6	918.9	914.0	912.8
25°	1065.1	1049.3	1046.2	1029.8	990.8	951.8	914.0	894.5	886.6	884.1	884.7
27.5°	1102.3	1091.3	1081.5	1034.6	966.4	905.5	862.8	854.3	851.2	854.3	856.1
30°	1148.0	1137.0	1115.1	1028.5	927.4	845.1	804.3	803.7	812.8	820.8	822.0
32.5°	1185.1	1180.3	1144.3	1009.0	872.6	778.7	744.0	746.4	762.9	773.8	775.7
35°	1214.4	1222.3	1168.7	976.7	807.4	716.0	688.5	689.8	698.9	714.1	714.7
37.5°	1255.8	1282.6	1190.6	927.4	732.4	661.7	636.7	627.6	626.4	630.6	631.9
40°	1339.3	1379.5	1206.5	855.5	659.9	613.0	585.0	567.3	552.0	540.5	536.8
42.5°	1465.4	1511.7	1215.6	768.4	595.3	564.8	533.2	510.6	483.8	459.4	450.9
45°	1697.0	1712.2	1215.6	675.7	538.0	519.8	488.1	461.3	427.1	398.5	392.4
47.5°	2067.4	2018.7	1216.8	586.2	487.5	480.1	452.7	422.3	384.5	360.7	357.1
50°	2625.6	2454.4	1241.8	511.8	445.4	446.6	426.5	393.0	358.9	341.2	338.2
52.5°	3258.1	2991.2	1308.8	457.0	410.1	419.2	408.2	376.0	345.5	330.3	327.2
55°	3852.8	3484.7	1366.1	418.0	380.2	396.1	395.5	365.6	338.2	322.9	321.1
57.5°	4358.5	3822.9	1357.6	386.3	354.6	374.7	383.9	358.9	333.3	320.5	318.7
60°	4672.9	4002.0	1236.3	357.1	335.1	359.5	377.2	357.1	335.7	332.7	333.3
62.5°	4809.4	3969.1	1003.6	335.1	322.3	352.2	384.5	369.9	358.3	365.6	369.9
65°	4597.3	3686.4	738.5	318.7	310.1	354.0	401.5	390.0	358.3	363.2	365.0
67.5°	4008.7	3138.0	533.8	302.2	294.9	359.5	425.9	386.9	337.6	337.6	333.9
70°	2888.8	2256.9	387.5	285.8	279.7	351.6	427.1	366.2	313.8	312.0	302.8
72.5°	1738.4	1331.4	302.2	267.5	256.5	312.0	400.3	341.8	290.6	275.4	264.4
75°	903.0	667.2	253.5	247.4	220.0	264.4	366.2	304.1	248.6	235.2	229.1
77.5°	386.9	312.0	217.5	220.6	182.8	222.4	295.5	263.2	220.6	203.5	198.0
80°	190.7	177.3	171.8	176.7	146.2	171.8	254.7	230.3	187.1	167.6	159.6
82.5°	109.1	103.6	123.7	125.5	104.2	143.8	215.1	195.0	154.8	133.4	120.6
85°	50.6	54.2	74.9	75.6	64.6	98.7	140.8	109.7	82.3	68.2	65.2
87.5°	20.1	23.8	32.9	32.3	18.9	18.3	12.2	6.7	5.5	4.9	4.3
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)