

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: P629335

Luminaire Tested: GWS-SA1B-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629335  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-740-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

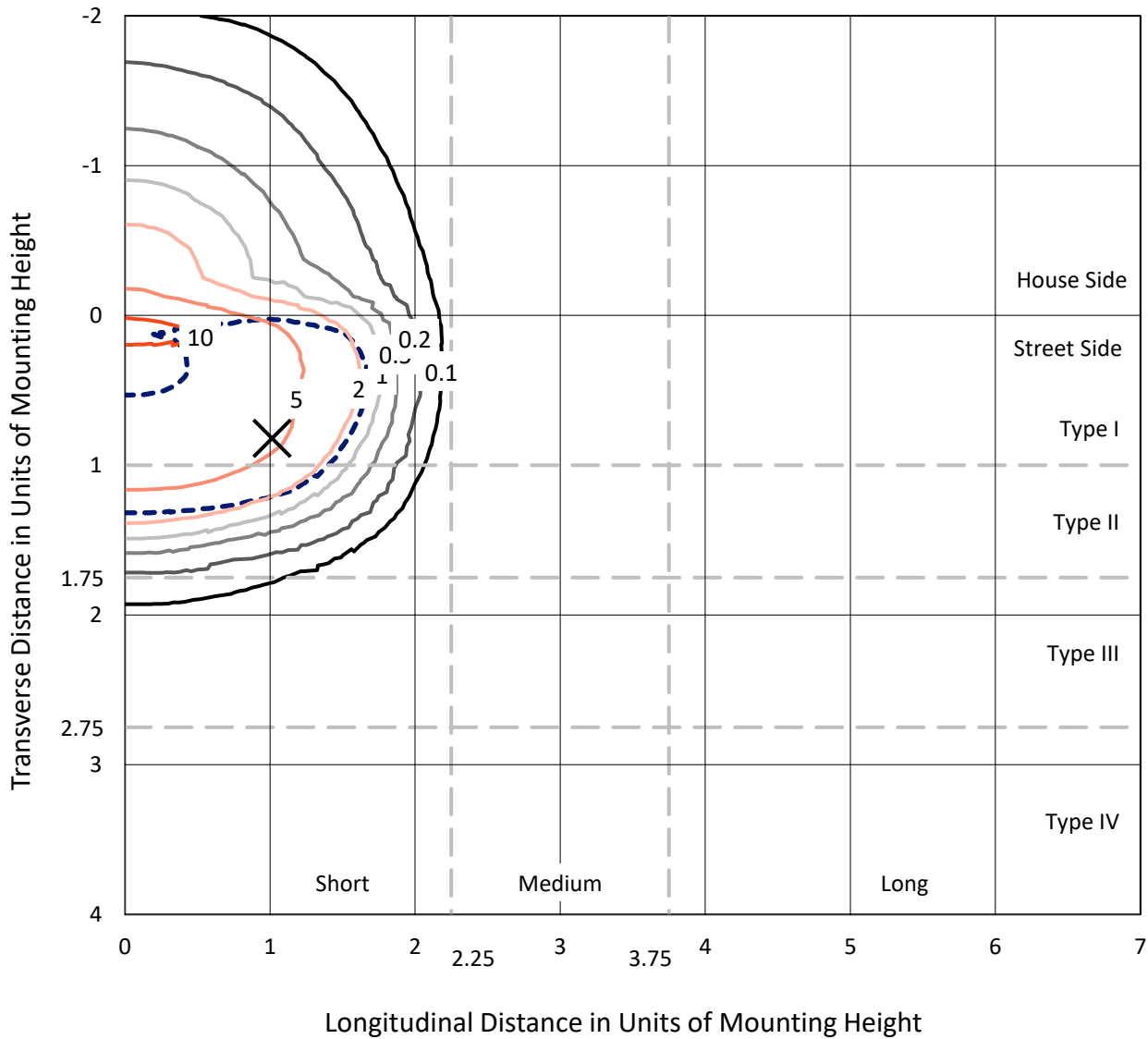
Lumens per Lamp: N/A  
Luminaire Lumens: 3251.4 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P629335  
 CATALOG NUMBER: GWS-SA1B-740-U-AFL-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

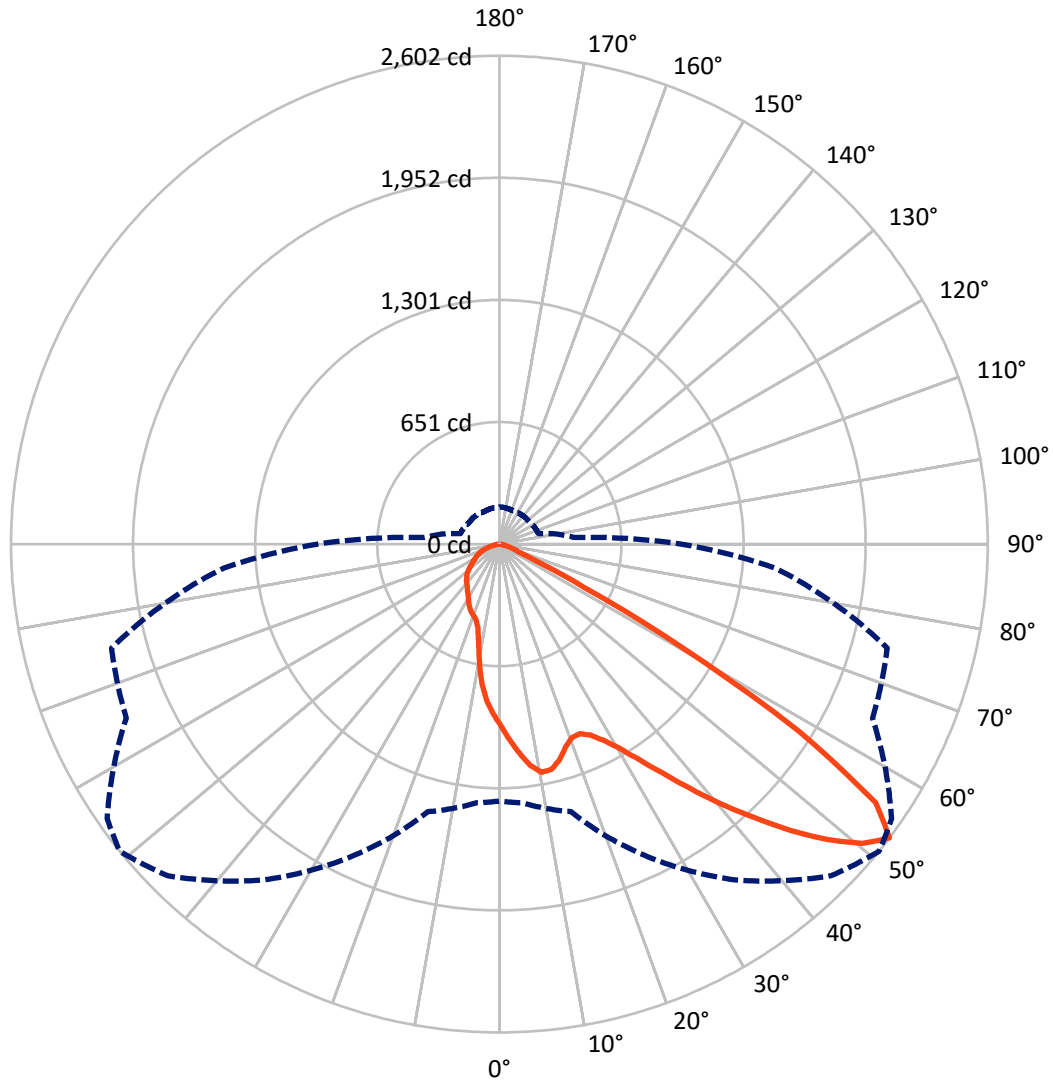
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P629335  
CATALOG NUMBER: GWS-SA1B-740-U-AFL-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P629335

CATALOG NUMBER: GWS-SA1B-740-U-AFL-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	633.5	0.0	633.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	2617.9	0.0	2617.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	3251.4	0.0	3251.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.3	2.8
10°-20°	234.7	7.2
20°-30°	381.7	11.7
30°-40°	604.8	18.6
40°-50°	912.2	28.1
50°-60°	789.1	24.3
60°-70°	178.9	5.5
70°-80°	52.8	1.6
80°-90°	6.8	0.2
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°	3251.4	100.0
0°-180°	3251.4	100.0

**Coefficient of Utilization**



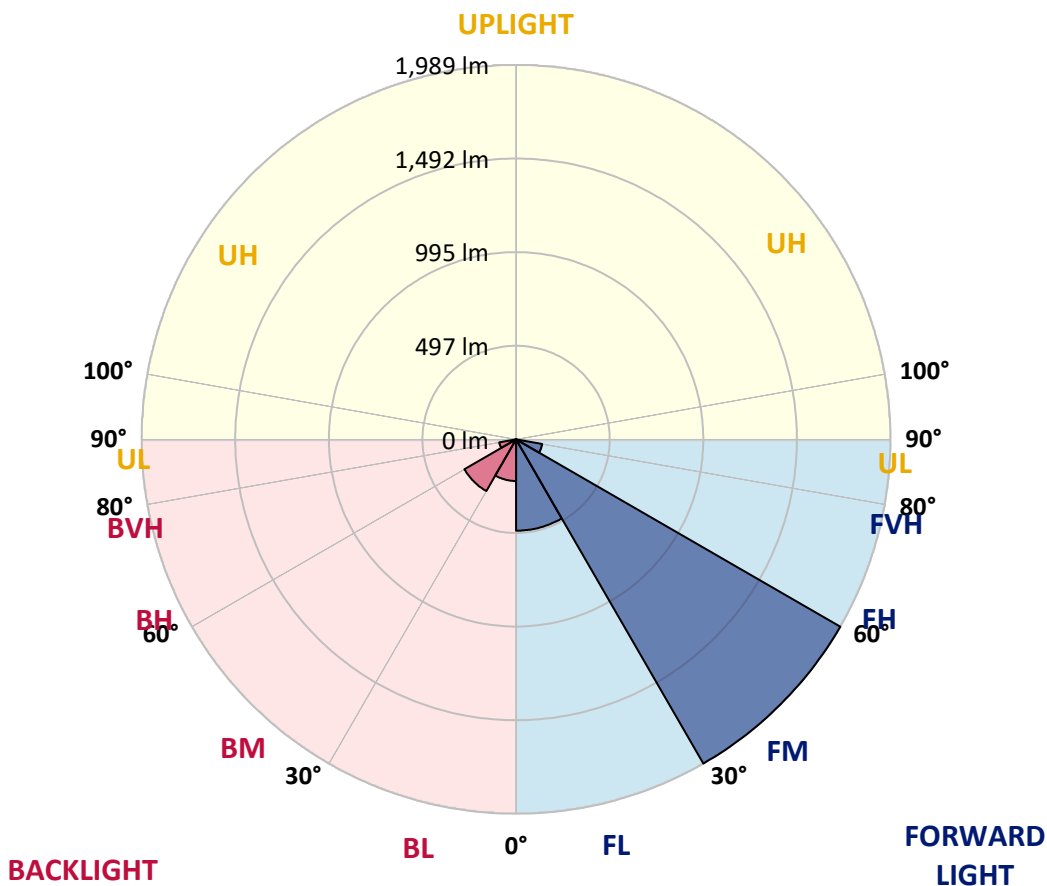
REPORT NUMBER: P629335

CATALOG NUMBER: GWS-SA1B-740-U-AFL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.3	14.9			
FM (30°-60°)	1989.3	61.2			
FH (60°-80°)	140.8	4.3			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	221.4	6.8	B1/500		
BM (30°-60°)	317.0	9.7	B1/1000		
BH (60°-80°)	90.9	2.8	B0/110		G0/110
BVH (80°-90°)	4.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





REPORT NUMBER: P629335

CATALOG NUMBER: GWS-SA1B-740-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	968.1	968.1	968.1	968.1	968.1	968.1	968.1	968.1	968.1	968.1	968.1
2.5°	1078.8	1085.0	1075.5	1071.9	1066.0	1055.7	1043.9	1040.6	1015.1	998.4	979.7
5°	1187.3	1190.6	1182.9	1175.2	1160.5	1142.3	1119.4	1114.6	1068.3	1030.0	990.2
7.5°	1211.4	1210.1	1216.8	1221.2	1219.4	1212.2	1191.9	1182.4	1127.1	1066.5	1007.7
10°	1115.8	1108.6	1133.3	1162.6	1197.8	1238.4	1236.1	1235.3	1187.3	1115.6	1030.0
12.5°	989.2	985.6	1005.6	1042.4	1108.9	1198.8	1232.5	1258.7	1241.5	1162.3	1054.9
15°	916.7	915.4	929.1	955.5	1008.4	1122.0	1193.9	1245.8	1288.0	1212.4	1081.4
17.5°	903.6	904.4	909.0	924.2	962.2	1055.7	1139.0	1211.4	1324.2	1267.4	1114.6
20°	941.9	947.0	939.1	941.4	961.9	1031.8	1101.4	1176.7	1347.3	1322.7	1150.3
22.5°	1026.9	1025.1	1007.7	997.4	997.7	1046.5	1097.3	1160.5	1362.5	1376.4	1182.6
25°	1123.3	1121.2	1100.4	1077.6	1063.2	1086.3	1126.9	1177.8	1376.1	1425.4	1208.6
27.5°	1237.1	1230.7	1207.6	1178.3	1146.4	1156.4	1183.9	1224.3	1397.2	1473.7	1225.8
30°	1347.3	1354.8	1321.6	1287.0	1253.3	1247.1	1263.1	1299.5	1440.1	1530.3	1246.4
32.5°	1493.5	1491.0	1454.2	1409.0	1360.9	1356.3	1368.9	1402.3	1517.2	1608.4	1277.7
35°	1670.5	1671.1	1618.9	1557.8	1489.4	1477.1	1498.1	1530.5	1632.0	1714.2	1327.3
37.5°	1854.5	1853.7	1808.3	1738.9	1645.6	1628.2	1652.3	1676.5	1775.6	1858.4	1404.4
40°	1983.5	1988.6	1967.3	1930.8	1842.4	1799.8	1821.1	1837.8	1931.8	2027.9	1505.9
42.5°	2056.7	2064.4	2069.0	2090.9	2044.4	1998.9	1991.2	1999.9	2071.4	2185.4	1601.2
45°	2072.4	2082.7	2116.3	2197.2	2215.2	2202.4	2177.2	2156.1	2175.4	2297.2	1663.6
47.5°	2003.3	2021.3	2093.2	2234.8	2339.8	2380.2	2352.2	2320.1	2235.5	2326.0	1657.2
50°	1729.4	1750.4	1912.6	2158.2	2357.6	2504.5	2507.1	2459.6	2228.3	2243.0	1576.5
52.5°	1369.2	1383.6	1476.3	1829.6	2183.6	2499.4	2602.2	2551.3	2193.6	2139.2	1475.5
55°	818.3	841.4	928.0	1207.0	1701.1	2215.2	2434.1	2458.8	2176.7	2052.1	1406.7
57.5°	276.2	287.5	370.2	533.1	1002.5	1622.0	1880.7	1980.9	1976.0	1919.0	1272.3
60°	131.5	134.1	150.8	202.2	401.3	847.6	1113.3	1228.9	1334.2	1344.8	791.6
62.5°	100.2	101.7	110.2	121.3	161.4	357.1	510.3	598.6	639.5	548.8	288.3
65°	83.8	85.0	91.5	98.4	109.7	154.7	195.8	225.8	203.5	158.5	137.5
67.5°	69.9	70.9	75.8	83.2	91.0	103.5	108.7	111.8	117.2	131.5	126.4
70°	54.7	55.8	60.9	67.3	74.8	77.8	82.7	85.8	96.6	115.1	114.6
72.5°	42.1	43.4	46.2	50.4	56.5	59.6	65.0	68.6	74.8	89.7	95.8
75°	30.8	31.6	34.2	35.5	36.2	35.5	40.9	45.0	53.2	58.8	60.4
77.5°	12.6	14.1	13.6	13.6	16.2	19.5	22.4	24.9	30.6	33.9	34.2
80°	5.1	5.7	6.7	7.5	9.0	11.6	13.4	14.4	17.0	19.0	20.6
82.5°	3.1	3.3	3.9	4.1	5.1	6.7	7.7	8.5	10.5	12.6	13.4
85°	1.5	1.5	1.8	2.1	2.6	3.1	3.6	4.1	5.4	6.7	7.5
87.5°	0.3	0.3	0.3	0.5	0.8	1.0	1.3	1.5	1.8	2.1	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P629335  
 CATALOG NUMBER: GWS-SA1B-740-U-AFL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	968.1	968.1	968.1	968.1	968.1	968.1	968.1	968.1	968.1	968.1	968.1
2.5°	968.6	954.7	938.6	925.7	910.8	899.8	884.1	874.3	865.1	857.4	851.7
5°	969.6	946.3	912.6	882.8	852.0	822.7	792.6	768.2	746.4	728.1	726.6
7.5°	975.6	941.9	889.2	837.1	776.9	718.9	660.8	613.5	577.6	558.8	555.0
10°	985.6	941.4	865.3	782.1	679.6	586.1	517.2	481.2	460.4	453.0	450.4
12.5°	996.1	940.1	834.8	704.5	562.2	480.2	442.4	438.1	441.9	442.4	442.2
15°	1009.0	939.3	796.2	613.5	476.3	431.1	433.7	442.9	451.9	454.0	454.0
17.5°	1024.6	937.5	743.8	524.6	422.6	421.6	435.2	447.6	456.0	457.6	457.6
20°	1041.1	932.9	679.3	452.2	400.8	415.7	430.4	439.9	445.8	447.8	448.1
22.5°	1052.4	920.6	605.1	398.5	387.2	404.4	414.9	424.7	424.7	419.6	418.0
25°	1054.7	894.1	524.6	361.8	371.0	386.9	397.7	392.1	381.5	377.4	377.2
27.5°	1046.2	855.6	445.3	335.5	351.5	367.4	365.6	357.4	352.8	348.7	350.2
30°	1035.9	809.3	376.4	314.0	328.9	344.5	338.4	335.5	332.2	327.6	328.6
32.5°	1029.0	757.7	323.5	297.3	313.7	316.3	320.6	320.4	317.3	308.6	308.1
35°	1031.1	705.5	288.0	283.6	301.1	300.1	308.3	306.8	285.4	273.4	272.6
37.5°	1047.5	655.4	267.2	272.9	281.1	287.5	294.7	276.2	268.7	261.0	261.6
40°	1078.8	608.9	255.9	266.9	269.0	278.5	261.8	261.6	258.2	251.3	251.0
42.5°	1114.3	569.6	248.2	264.1	261.3	263.1	245.4	247.4	247.2	242.8	241.5
45°	1135.9	533.4	242.0	253.6	254.4	236.4	231.0	233.3	234.6	232.3	232.0
47.5°	1113.5	491.8	235.6	237.4	244.1	224.3	217.6	217.9	220.2	220.4	219.4
50°	1050.8	445.3	227.9	223.5	219.2	211.7	205.5	204.3	206.6	208.9	209.7
52.5°	969.9	400.8	215.0	208.4	198.1	198.1	195.3	191.2	194.2	197.3	198.3
55°	910.6	367.9	196.8	189.4	178.1	181.9	181.4	177.8	181.9	184.2	185.0
57.5°	789.0	295.7	173.2	170.9	161.4	166.0	167.0	162.4	160.3	160.8	161.6
60°	468.4	190.9	156.2	156.0	147.5	152.9	156.0	151.3	145.2	145.9	147.0
62.5°	210.2	145.9	134.9	133.9	133.6	140.5	143.9	139.5	130.8	131.5	132.6
65°	132.3	126.2	117.2	117.2	121.3	127.2	129.7	126.2	116.1	114.8	115.9
67.5°	122.8	117.4	108.2	106.4	108.4	113.3	113.6	106.6	100.7	99.7	99.7
70°	110.2	106.1	97.1	93.5	92.8	92.5	91.7	89.9	86.1	85.0	85.6
72.5°	91.2	88.4	82.7	78.9	76.8	76.6	73.5	71.9	68.6	68.1	67.8
75°	60.4	61.1	61.1	60.6	58.8	58.1	54.7	53.2	49.3	47.8	47.5
77.5°	35.7	36.5	37.5	37.8	37.5	37.5	34.4	32.6	28.8	26.7	26.2
80°	21.8	22.4	22.9	23.6	22.6	21.8	19.0	17.2	15.4	14.1	13.9
82.5°	14.1	14.6	14.9	15.4	14.9	13.9	11.6	10.5	9.2	8.2	8.0
85°	8.0	8.2	8.7	8.7	8.0	7.2	5.9	5.1	4.4	3.9	3.9
87.5°	2.8	2.8	2.8	3.1	2.6	2.3	1.5	1.0	0.8	0.8	0.8
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)