

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: P629839

Luminaire Tested: GWS-SA1C-740-U-SL2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-740-U-SL2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

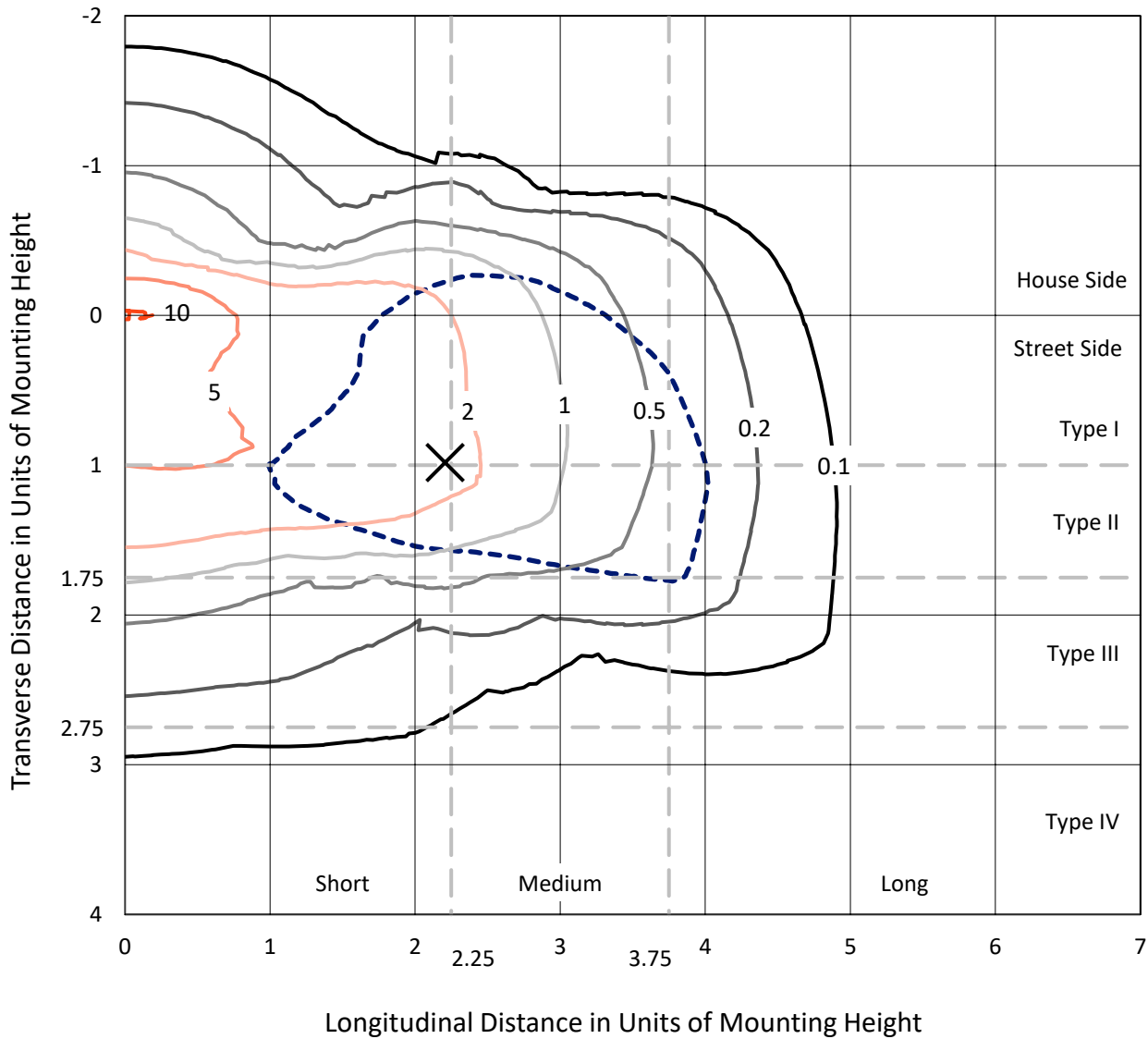
Lumens per Lamp: N/A  
Luminaire Lumens: 4723.3 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

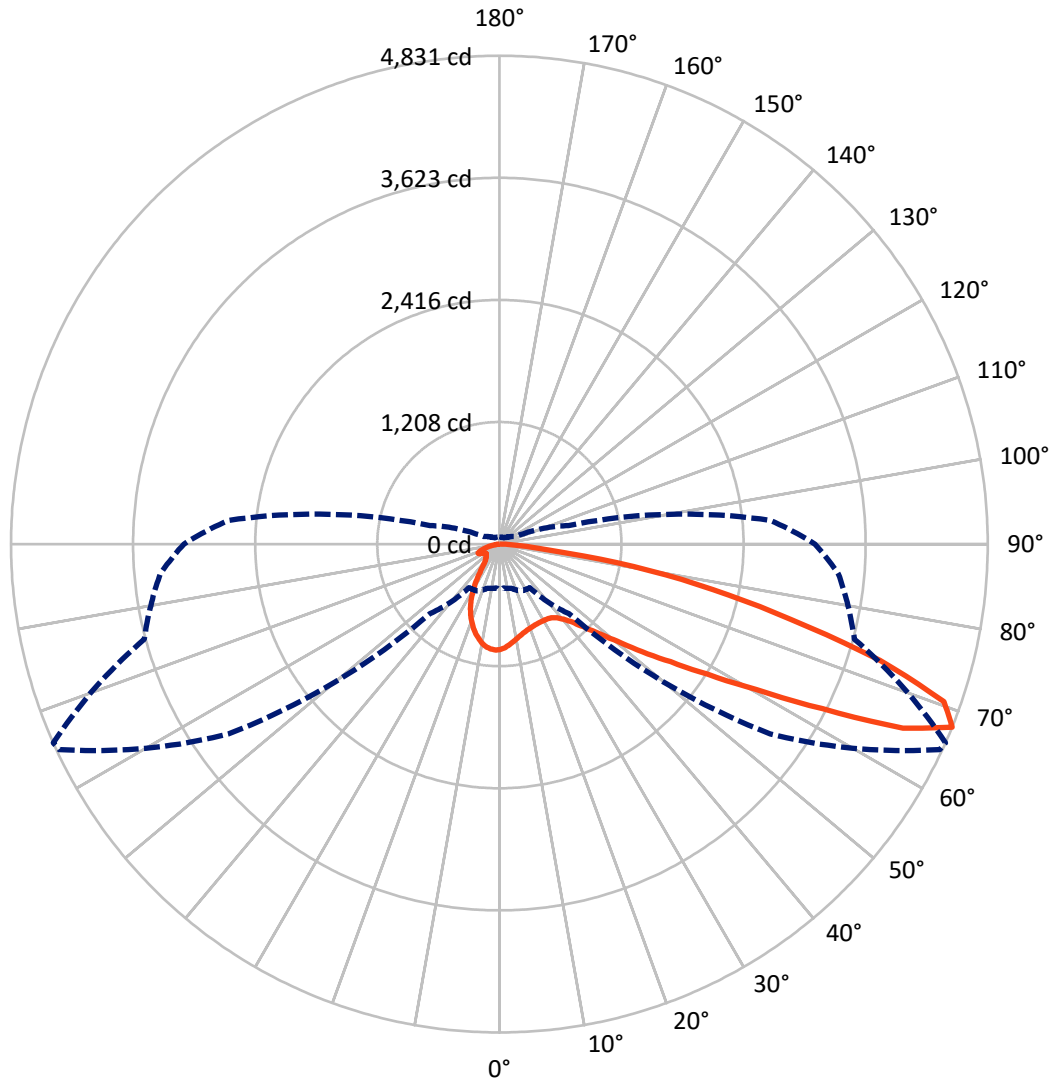
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	958.5	0.0	958.5
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	3764.8	0.0	3764.8
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	4723.3	0.0	4723.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.6	1.9
10°-20°	225.1	4.8
20°-30°	309.4	6.6
30°-40°	423.0	9.0
40°-50°	641.0	13.6
50°-60°	996.5	21.1
60°-70°	1213.2	25.7
70°-80°	739.0	15.6
80°-90°	84.4	1.8
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°	4723.3	100.0
0°-180°	4723.3	100.0

**Coefficient of Utilization**



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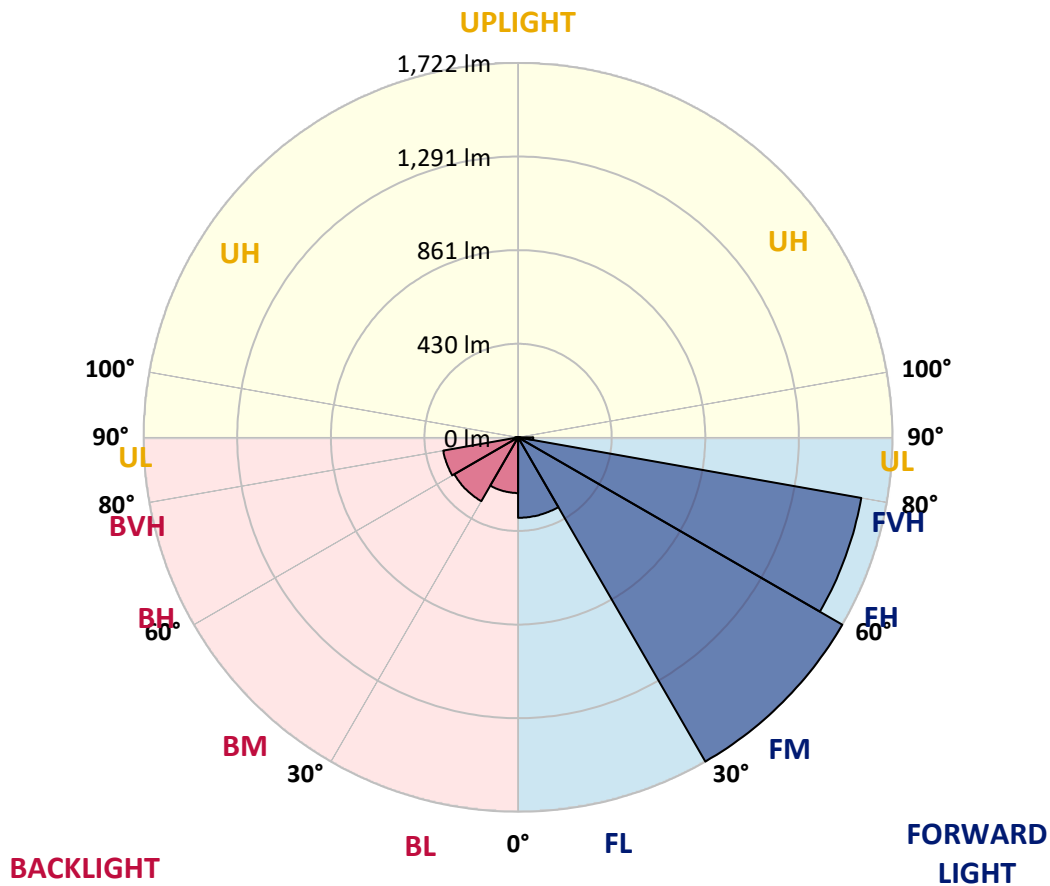
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.1	7.8			
FM (30°-60°)	1721.8	36.5			
FH (60°-80°)	1602.7	33.9			G1/1800
FVH (80°-90°)	70.2	1.5			G1/100
BL (0°-30°)	256.0	5.4	B1/500		
BM (30°-60°)	338.7	7.2	B1/1000		
BH (60°-80°)	349.5	7.4	B1/500		G1/500
BVH (80°-90°)	14.2	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°	66°	75°	85°
0°	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7
2.5°	977.6	981.0	978.9	992.0	992.7	1009.3	1018.6	1026.5	1027.2	1037.5	1044.4
5°	910.7	912.8	912.8	925.2	933.5	955.5	976.9	999.6	1001.3	1026.1	1045.1
7.5°	856.6	858.7	857.3	873.8	884.5	909.0	936.2	971.0	974.5	1014.4	1047.5
10°	814.2	813.5	817.0	832.1	845.9	875.2	905.5	945.2	950.3	1001.0	1050.3
12.5°	785.3	786.0	788.0	803.9	818.7	847.7	879.0	922.1	927.6	985.5	1048.9
15°	771.5	770.1	771.8	786.3	800.4	825.9	858.3	902.8	908.3	971.7	1049.2
17.5°	768.4	767.4	767.0	777.4	788.0	811.8	842.8	888.0	893.8	962.7	1051.3
20°	778.0	776.7	772.9	777.4	781.8	801.8	831.8	877.3	883.8	956.9	1055.4
22.5°	804.6	802.2	796.3	790.8	784.9	797.0	824.9	869.4	875.9	953.1	1059.6
25°	844.9	842.8	836.6	824.2	802.9	800.8	823.5	865.9	872.5	950.3	1061.3
27.5°	900.4	897.3	891.1	873.2	838.3	814.9	828.7	865.6	871.8	947.2	1059.6
30°	966.2	964.1	960.7	939.0	892.4	844.9	840.4	868.3	873.2	945.5	1056.1
32.5°	1033.0	1031.0	1033.7	1023.4	966.2	894.5	865.9	875.9	879.4	945.2	1053.0
35°	1092.0	1094.4	1114.4	1116.1	1059.9	961.7	906.2	893.5	894.2	952.1	1054.4
37.5°	1153.6	1162.9	1189.1	1211.5	1164.7	1050.6	966.2	926.6	925.9	969.6	1063.0
40°	1235.3	1239.4	1272.9	1314.9	1285.6	1172.6	1051.3	980.7	975.8	1005.5	1086.1
42.5°	1314.9	1324.9	1378.3	1426.5	1416.9	1310.1	1158.5	1061.6	1053.0	1068.9	1133.6
45°	1416.2	1425.8	1485.8	1547.8	1565.4	1465.5	1295.6	1176.7	1168.1	1164.3	1220.8
47.5°	1517.5	1527.5	1581.3	1670.8	1732.5	1659.8	1474.1	1328.7	1314.6	1299.7	1352.5
50°	1585.7	1597.4	1648.8	1756.3	1901.0	1902.4	1685.7	1527.8	1509.9	1486.5	1537.8
52.5°	1583.3	1590.9	1639.8	1763.9	2022.3	2181.2	1968.9	1781.4	1767.0	1716.0	1760.8
55°	1458.9	1470.3	1519.6	1674.6	2035.4	2445.4	2385.1	2080.5	2054.7	1963.4	2012.7
57.5°	1209.1	1218.8	1268.4	1459.6	1919.3	2580.9	2913.7	2461.6	2426.1	2232.8	2289.7
60°	912.8	901.1	924.5	1092.0	1641.6	2584.3	3380.3	2978.5	2919.2	2520.9	2568.5
62.5°	685.0	673.3	678.5	725.7	1113.0	2375.5	3646.3	3685.6	3587.7	2846.2	2836.9
65°	541.3	534.8	549.6	582.0	648.8	1809.0	3648.4	4450.2	4388.5	3223.1	3112.2
67.5°	441.1	436.9	452.1	512.0	526.2	972.0	3271.4	4807.2	4831.3	3635.9	3367.5
70°	355.3	349.1	372.8	451.7	489.3	588.2	2343.4	4625.2	4664.2	3882.0	3295.5
72.5°	245.3	245.7	257.7	365.9	472.4	507.9	1325.6	3851.3	3935.7	3659.0	2897.2
75°	165.4	166.8	170.2	241.5	435.2	492.7	706.4	2915.8	2975.4	3024.3	2394.8
77.5°	99.9	100.6	108.5	146.1	300.1	460.0	478.6	2113.6	2160.5	1993.7	1484.4
80°	57.9	60.3	67.5	97.9	202.6	345.6	370.4	1295.9	1349.0	886.2	471.7
82.5°	25.5	27.2	36.9	56.9	118.2	293.9	289.1	512.0	504.5	247.1	163.7
85°	4.5	5.5	7.9	17.9	43.4	155.1	224.3	226.0	212.6	93.7	67.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	33.8	60.6	60.3	26.5	23.4
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°	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7
2.5°	1048.9	1039.6	1047.9	1048.9	1047.2	1045.8	1035.4	1026.5	1025.5	1015.8	1015.8
5°	1052.7	1044.1	1048.2	1040.3	1027.9	1015.1	993.1	977.9	971.0	958.6	958.6
7.5°	1057.8	1048.9	1044.1	1024.4	995.5	967.6	932.1	902.4	890.4	872.8	872.1
10°	1062.7	1051.3	1034.8	996.5	950.3	905.9	854.2	812.2	783.6	762.5	762.5
12.5°	1062.3	1047.5	1014.8	958.3	894.5	830.1	761.2	697.8	659.9	627.1	625.1
15°	1061.6	1041.3	989.3	913.8	829.4	740.1	646.4	563.7	507.6	475.5	472.8
17.5°	1060.9	1033.4	960.7	863.2	750.1	628.5	504.8	415.2	368.3	348.7	349.4
20°	1060.9	1024.4	930.0	804.9	658.8	494.8	370.4	305.3	293.6	294.6	295.6
22.5°	1057.8	1013.4	895.9	741.5	557.2	363.9	273.2	251.2	257.4	267.0	268.4
25°	1050.6	995.1	856.3	671.2	436.2	265.0	222.9	218.8	230.2	242.2	245.7
27.5°	1039.2	974.1	811.8	588.9	321.1	212.9	196.1	195.7	204.7	213.6	216.7
30°	1027.2	950.7	765.0	497.2	232.6	185.4	178.8	178.8	183.3	188.8	188.1
32.5°	1013.0	926.9	714.6	401.8	189.5	169.9	167.8	166.8	167.5	169.5	169.5
35°	1001.0	905.9	663.0	300.8	169.9	161.3	159.2	156.8	155.7	154.4	155.1
37.5°	996.5	889.3	609.6	226.7	160.2	155.1	151.6	148.2	145.8	145.1	144.7
40°	1003.7	882.5	556.1	186.8	153.3	148.5	144.7	140.2	138.2	138.2	138.2
42.5°	1032.0	887.6	501.7	168.8	148.5	143.0	137.5	133.4	132.7	133.4	133.7
45°	1083.7	907.6	445.2	159.9	144.4	137.5	130.9	127.8	127.8	128.5	128.5
47.5°	1176.0	960.0	389.4	154.4	140.2	133.0	126.1	123.0	122.7	123.4	123.4
50°	1335.9	1054.4	339.1	150.6	137.1	129.6	122.7	118.5	117.5	117.2	117.2
52.5°	1537.5	1218.1	307.0	147.8	133.4	125.8	118.9	113.4	111.3	110.3	110.3
55°	1781.1	1436.2	307.0	145.8	128.5	121.3	113.4	107.9	104.8	103.4	103.4
57.5°	2057.1	1690.1	360.1	144.0	124.7	116.1	107.5	102.0	98.5	96.5	96.5
60°	2337.9	1958.6	491.4	141.6	121.3	109.6	101.0	95.8	91.3	88.9	88.6
62.5°	2629.1	2254.2	664.3	143.0	118.9	103.4	94.1	88.2	84.4	82.0	81.7
65°	2895.8	2535.7	815.6	153.7	119.2	97.9	86.1	81.0	77.9	74.8	74.4
67.5°	3122.2	2691.1	709.5	175.4	126.5	91.3	78.2	73.0	70.3	68.2	67.9
70°	2963.7	2454.1	402.5	188.8	136.5	84.4	69.3	65.8	63.1	61.7	61.3
72.5°	2534.3	2077.8	269.1	166.8	124.4	75.5	61.0	58.2	56.2	54.4	54.1
75°	2053.0	1647.8	205.7	136.8	96.8	61.3	52.4	50.3	48.2	46.5	46.2
77.5°	1214.6	952.1	151.6	108.2	68.2	47.9	43.4	41.7	39.6	38.2	37.9
80°	387.6	330.8	96.1	74.4	45.1	36.9	33.4	32.0	30.0	28.3	27.9
82.5°	147.8	127.8	51.0	37.9	30.0	25.2	22.4	21.0	19.6	17.9	17.6
85°	65.5	61.3	28.3	20.3	16.2	12.4	11.0	10.3	8.6	7.2	6.9
87.5°	23.1	23.1	12.1	5.9	3.4	1.7	1.0	0.3	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)