

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: P631288

Luminaire Tested: GWS-SA1F-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631288  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-735-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

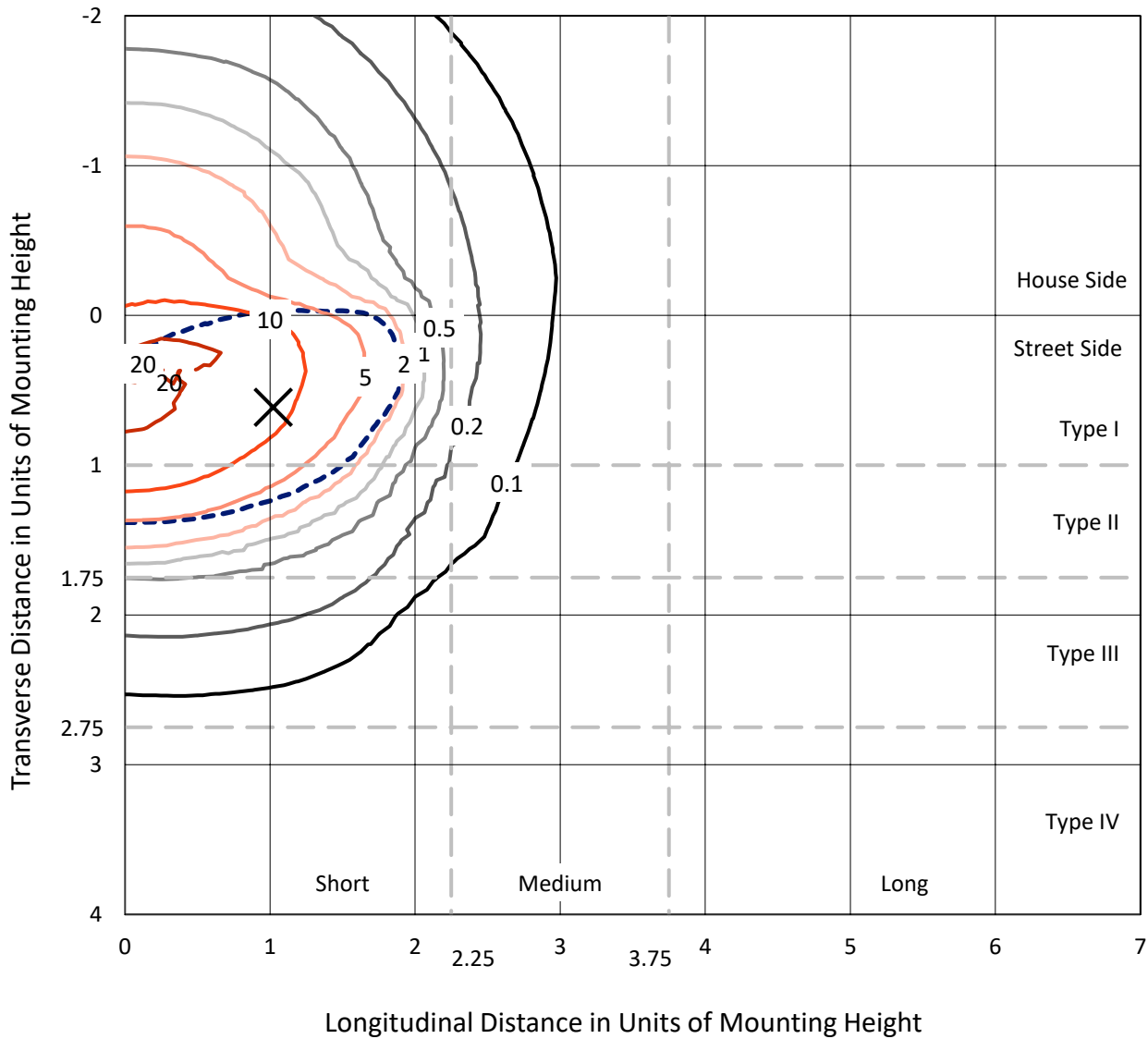
Lumens per Lamp: N/A  
Luminaire Lumens: 7313.2 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

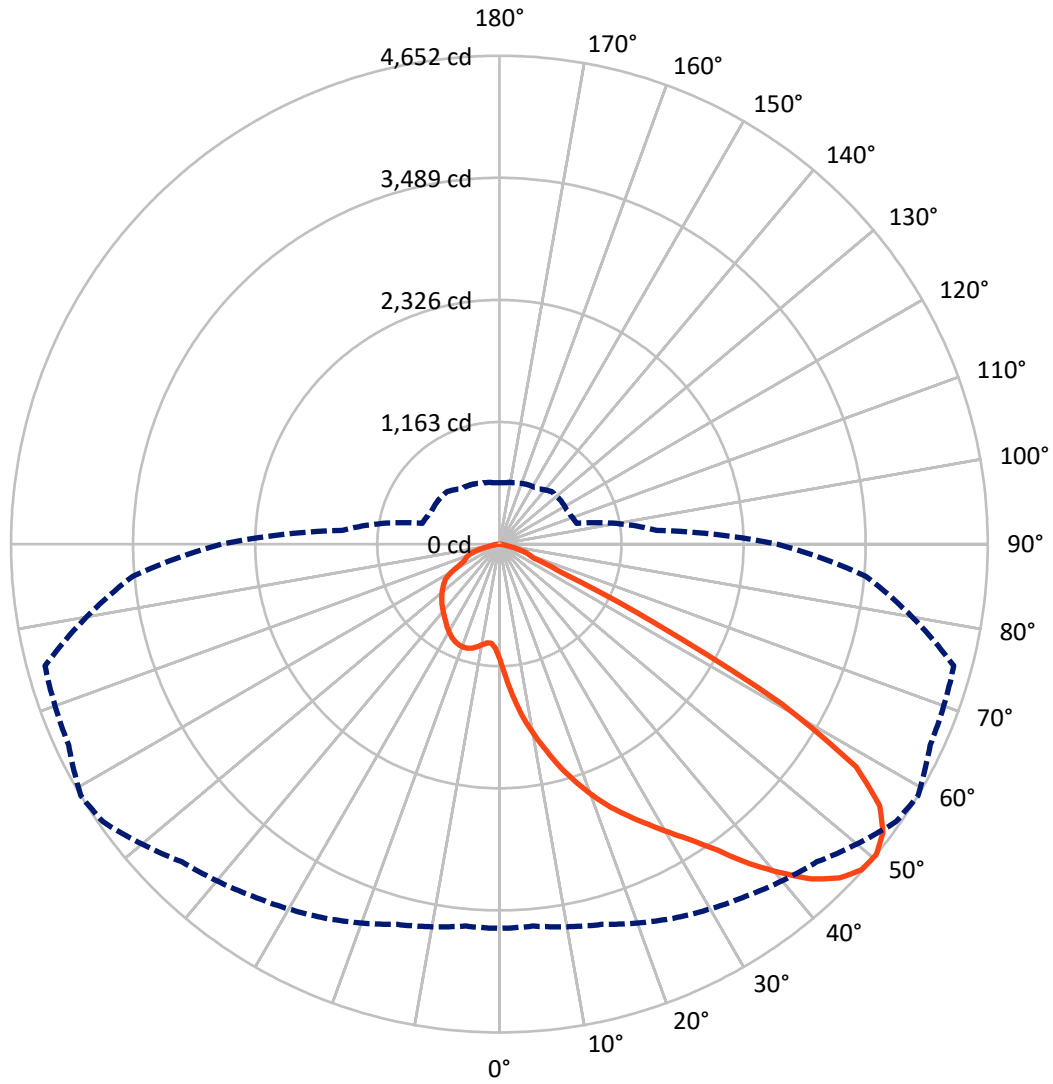
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1682.2	0.0	1682.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	5631.0	0.0	5631.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	7313.2	0.0	7313.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	1.7
10°-20°	451.2	6.2
20°-30°	854.4	11.7
30°-40°	1416.9	19.4
40°-50°	1935.6	26.5
50°-60°	1757.0	24.0
60°-70°	585.1	8.0
70°-80°	170.7	2.3
80°-90°	17.9	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°	7313.2	100.0
0°-180°	7313.2	100.0

**Coefficient of Utilization**



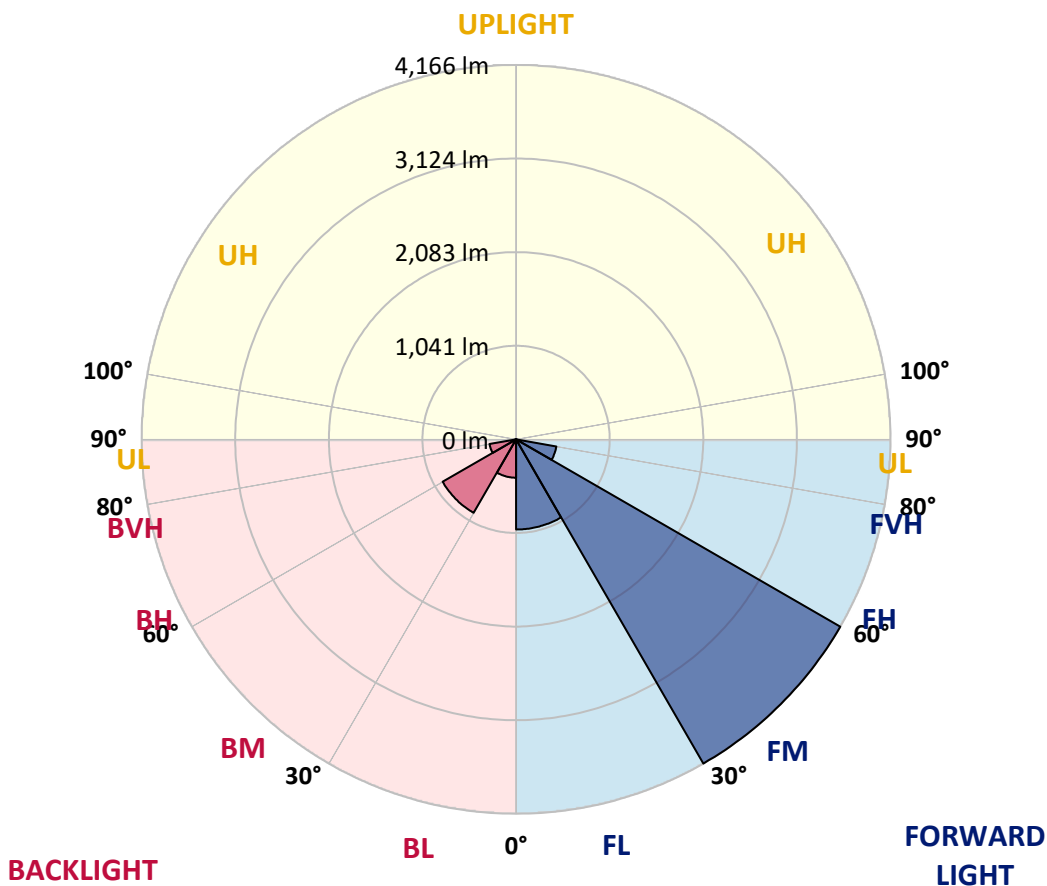
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.8	13.7			
FM (30°-60°)	4165.7	57.0			
FH (60°-80°)	455.5	6.2			G0/660
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	427.1	5.8	B1/500		
BM (30°-60°)	943.9	12.9	B1/1000		
BH (60°-80°)	300.2	4.1	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			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°	59°	65°	75°	85°
0°	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0
2.5°	1435.6	1446.4	1429.7	1430.9	1389.2	1370.1	1316.5	1284.9	1264.1	1205.7	1152.7
5°	1725.1	1712.6	1699.5	1691.8	1655.4	1604.2	1537.5	1484.5	1435.6	1321.3	1211.1
7.5°	1902.7	1896.1	1887.2	1882.4	1846.7	1793.1	1726.3	1681.1	1610.2	1455.3	1281.9
10°	2053.4	2045.6	2040.3	2043.8	2014.7	1980.1	1907.4	1855.6	1775.8	1597.1	1367.7
12.5°	2170.1	2174.3	2176.1	2195.2	2182.6	2161.8	2086.7	2031.9	1943.2	1746.6	1468.4
15°	2262.5	2261.3	2282.1	2318.5	2338.7	2325.6	2265.4	2219.6	2111.2	1893.7	1576.8
17.5°	2283.9	2285.1	2317.9	2381.6	2447.7	2479.9	2445.9	2391.1	2283.9	2039.1	1689.4
20°	2301.2	2303.6	2337.5	2410.2	2506.7	2596.7	2602.0	2562.7	2470.4	2196.3	1803.8
22.5°	2410.2	2415.6	2424.5	2470.4	2557.3	2671.1	2733.7	2725.3	2647.9	2361.4	1927.1
25°	2696.7	2680.6	2637.2	2624.1	2657.4	2749.7	2856.4	2872.5	2834.3	2543.0	2059.9
27.5°	3050.6	3033.3	2969.0	2901.1	2829.0	2861.1	2974.9	3023.2	3023.8	2743.2	2193.4
30°	3371.7	3358.0	3305.5	3208.4	3083.9	3037.5	3121.5	3186.4	3225.1	2974.3	2345.3
32.5°	3646.3	3633.8	3562.9	3483.7	3362.1	3268.6	3299.0	3361.5	3452.1	3273.4	2534.1
35°	3877.4	3864.9	3797.0	3717.2	3604.6	3548.6	3537.9	3580.8	3698.1	3585.5	2750.9
37.5°	4065.1	4052.5	3981.7	3906.6	3820.8	3824.4	3840.5	3861.3	3928.6	3919.7	2982.7
40°	4186.6	4173.5	4122.8	4069.2	4015.0	4057.9	4137.7	4112.7	4148.5	4189.6	3195.9
42.5°	4240.8	4224.1	4194.9	4183.0	4166.3	4233.0	4386.7	4361.7	4318.8	4369.5	3354.4
45°	4186.6	4172.3	4171.7	4208.0	4246.7	4332.5	4558.9	4538.6	4430.2	4456.4	3449.1
47.5°	4020.4	4007.9	4041.8	4137.1	4232.4	4357.5	4635.7	4639.3	4509.4	4492.8	3510.5
50°	3661.2	3652.8	3751.1	3931.6	4096.0	4279.5	4611.3	4652.4	4528.5	4481.4	3502.7
52.5°	2930.8	2969.6	3183.4	3484.8	3804.1	4142.5	4520.8	4574.4	4436.8	4407.0	3461.0
55°	2006.3	2024.2	2238.0	2678.3	3184.6	3845.8	4312.9	4395.7	4328.4	4394.5	3504.5
57.5°	1038.9	1053.2	1221.8	1612.6	2160.0	3039.3	3735.6	4007.3	4109.7	4457.6	3639.7
60°	426.5	438.4	508.1	697.0	1089.5	1769.8	2688.4	3091.1	3331.7	4071.0	3232.3
62.5°	309.8	315.7	349.1	415.8	570.7	867.3	1521.4	1669.7	1838.9	2551.4	2052.2
65°	260.9	267.5	294.3	334.8	416.4	532.0	649.9	653.5	720.2	1039.5	760.7
67.5°	218.6	224.6	248.4	283.0	336.6	377.7	349.1	349.7	348.5	377.1	364.6
70°	170.4	175.1	199.0	235.9	263.9	242.4	272.8	302.0	289.5	300.8	318.1
72.5°	124.5	129.9	150.7	178.7	171.6	172.8	221.0	250.8	243.6	256.2	272.2
75°	90.0	93.5	104.2	89.4	94.1	113.8	155.5	171.6	178.7	189.4	203.7
77.5°	29.2	29.2	32.8	41.1	51.2	63.1	79.2	85.8	96.5	108.4	118.5
80°	14.9	15.5	18.5	22.6	28.6	36.3	46.5	49.4	54.8	61.4	65.5
82.5°	7.1	7.7	8.9	11.3	14.9	19.1	25.6	28.6	32.2	36.3	39.3
85°	1.8	1.8	2.4	3.6	4.8	7.1	9.5	11.3	14.3	17.3	19.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	1.8	2.4	3.0	3.6	4.8
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°	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0	1108.0
2.5°	1128.9	1095.5	1052.6	1016.3	982.9	957.3	935.2	924.5	914.4	907.3	909.6
5°	1159.8	1102.6	1022.8	967.4	933.5	916.2	904.3	898.3	897.1	892.4	890.6
7.5°	1205.1	1123.5	1016.9	960.9	938.2	929.3	922.7	919.2	921.0	916.2	914.4
10°	1261.1	1158.0	1031.8	982.3	962.7	956.1	948.9	944.2	941.8	934.7	933.5
12.5°	1330.8	1200.9	1058.6	1009.7	990.1	978.7	969.2	960.9	955.5	946.6	944.2
15°	1405.9	1248.6	1090.1	1036.5	1013.3	996.6	981.1	968.6	959.1	947.2	945.4
17.5°	1487.5	1298.6	1116.3	1055.0	1025.2	1003.2	980.5	962.1	948.9	933.5	931.7
20°	1572.6	1349.3	1136.0	1063.9	1025.8	996.0	965.6	941.2	924.5	909.0	907.8
22.5°	1660.8	1395.7	1147.9	1061.5	1016.3	979.3	943.0	915.6	895.9	877.5	876.3
25°	1749.6	1440.4	1150.9	1052.0	997.2	954.3	918.0	885.8	863.8	842.9	840.5
27.5°	1839.5	1477.9	1143.7	1032.9	971.6	925.1	888.8	857.2	834.6	813.7	810.2
30°	1935.4	1510.1	1128.3	1007.9	941.8	894.1	858.4	834.6	813.1	792.3	788.7
32.5°	2037.9	1538.1	1106.2	977.5	907.3	863.2	837.0	815.5	794.1	775.6	772.0
35°	2160.0	1556.6	1073.5	938.2	875.1	840.5	822.7	797.6	771.4	751.2	749.4
37.5°	2286.3	1570.9	1034.1	900.7	847.1	827.4	812.5	778.6	745.8	721.4	718.4
40°	2408.4	1582.8	985.3	865.6	821.5	817.9	797.6	755.3	698.8	671.4	669.0
42.5°	2522.2	1586.3	934.1	828.0	798.2	796.5	773.8	708.3	664.8	647.5	645.1
45°	2600.2	1583.4	881.0	792.9	775.0	765.5	741.6	674.3	647.5	632.0	629.1
47.5°	2658.0	1567.9	821.5	755.9	748.8	735.7	684.5	652.9	627.9	612.4	609.4
50°	2647.9	1503.5	761.3	720.2	717.2	705.9	642.8	626.1	604.0	587.4	585.0
52.5°	2595.5	1381.4	699.9	680.9	686.8	664.8	613.0	593.9	574.9	555.8	551.6
55°	2608.6	1293.3	653.5	642.8	653.5	603.4	579.6	559.4	541.5	523.0	519.5
57.5°	2665.8	1206.3	604.0	601.7	613.0	556.4	536.7	511.1	485.5	470.6	470.6
60°	2238.6	879.3	517.1	523.0	548.6	518.3	501.0	474.8	446.8	433.7	433.7
62.5°	1323.6	551.6	428.9	422.4	438.4	457.5	467.0	445.6	412.2	394.9	395.5
65°	583.2	401.5	378.3	372.9	368.1	381.2	407.5	409.2	374.1	353.8	354.4
67.5°	359.2	363.4	353.8	349.7	345.5	343.1	340.7	341.9	332.4	313.9	313.3
70°	324.1	335.4	328.8	325.3	319.9	315.7	301.4	278.2	262.1	257.3	262.7
72.5°	278.8	294.3	290.7	288.9	282.4	272.2	253.2	230.5	211.5	199.6	201.9
75°	210.3	222.8	224.6	225.2	218.0	208.5	188.8	169.8	153.1	140.6	143.6
77.5°	120.9	128.1	129.9	131.6	126.3	122.7	109.6	95.9	87.0	73.9	77.4
80°	67.3	70.3	70.3	70.9	67.9	63.7	54.8	47.1	42.9	36.9	37.5
82.5°	40.5	41.7	42.3	42.9	41.1	36.9	30.4	25.0	22.6	19.7	19.1
85°	19.7	20.8	20.8	21.4	18.5	16.1	12.5	9.5	8.3	6.0	6.6
87.5°	4.8	5.4	5.4	4.8	4.2	3.0	1.8	0.6	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)