

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: P633767

Luminaire Tested: GWS-SA2F-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13656.3 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

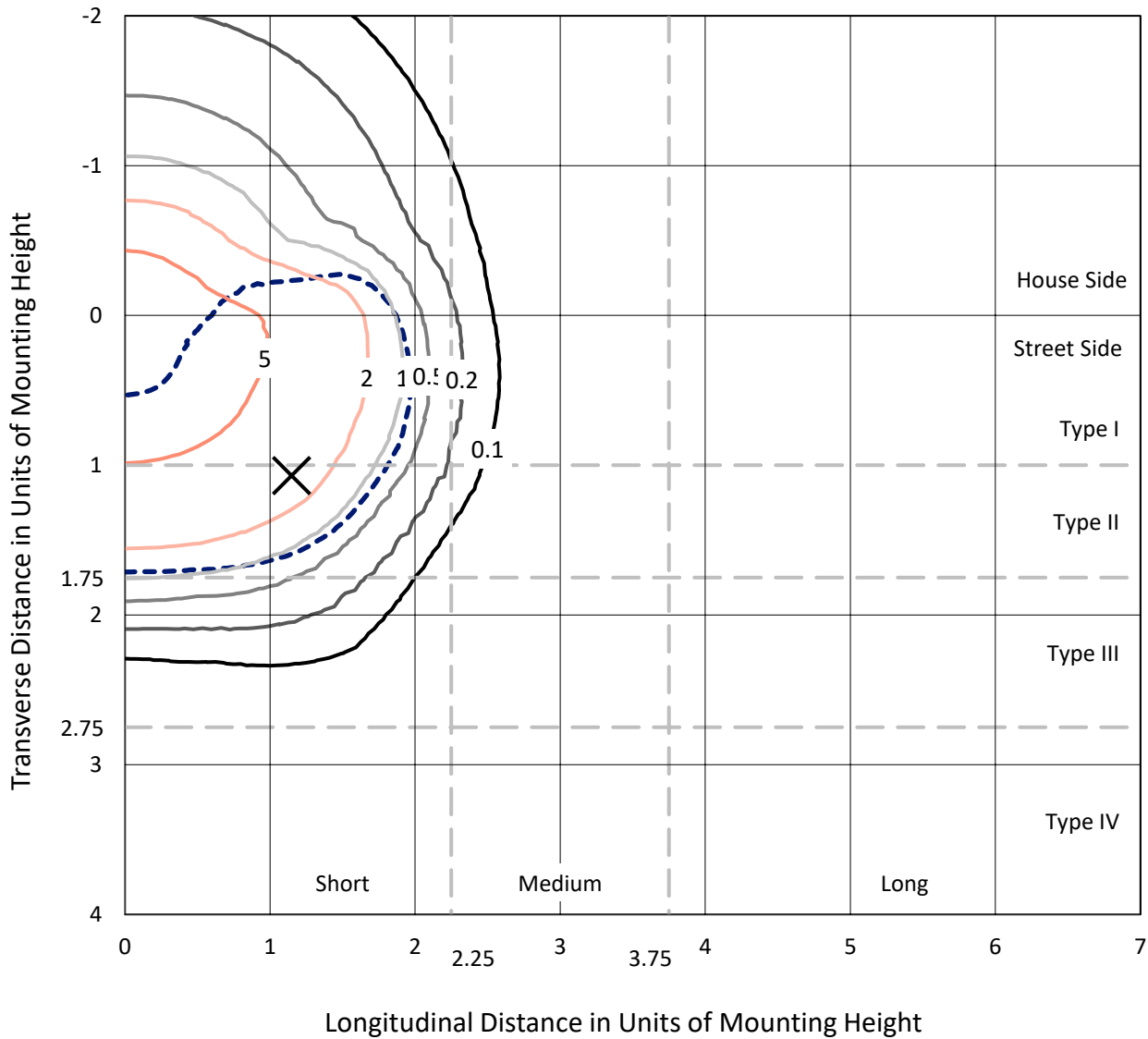
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

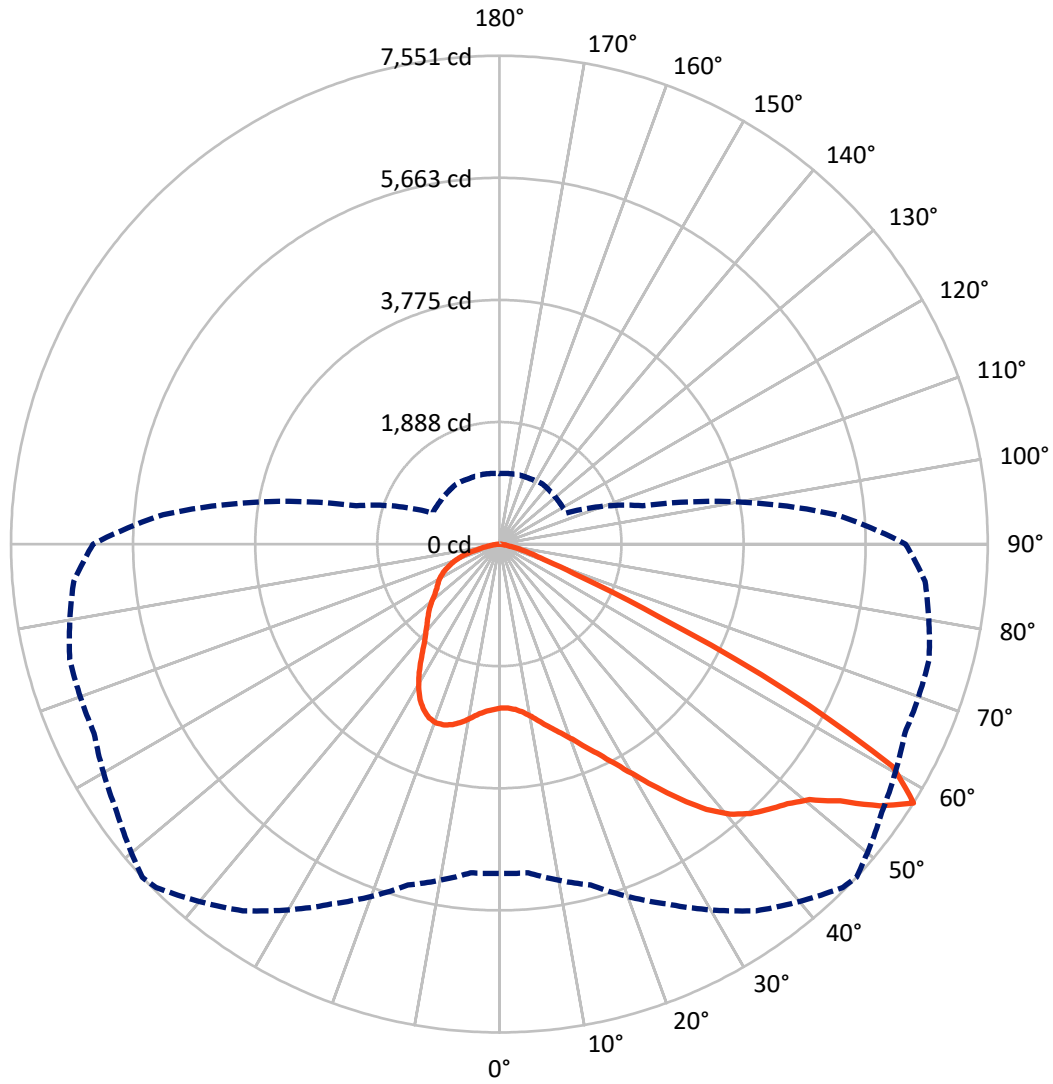
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4322.2	0.0	4322.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9334.1	0.0	9334.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	13656.3	0.0	13656.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	1.8
10°-20°	821.6	6.0
20°-30°	1479.3	10.8
30°-40°	2234.4	16.4
40°-50°	3008.9	22.0
50°-60°	3615.6	26.5
60°-70°	1760.8	12.9
70°-80°	433.8	3.2
80°-90°	52.1	0.4
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°	13656.3	100.0
0°-180°	13656.3	100.0

Coefficient of Utilization



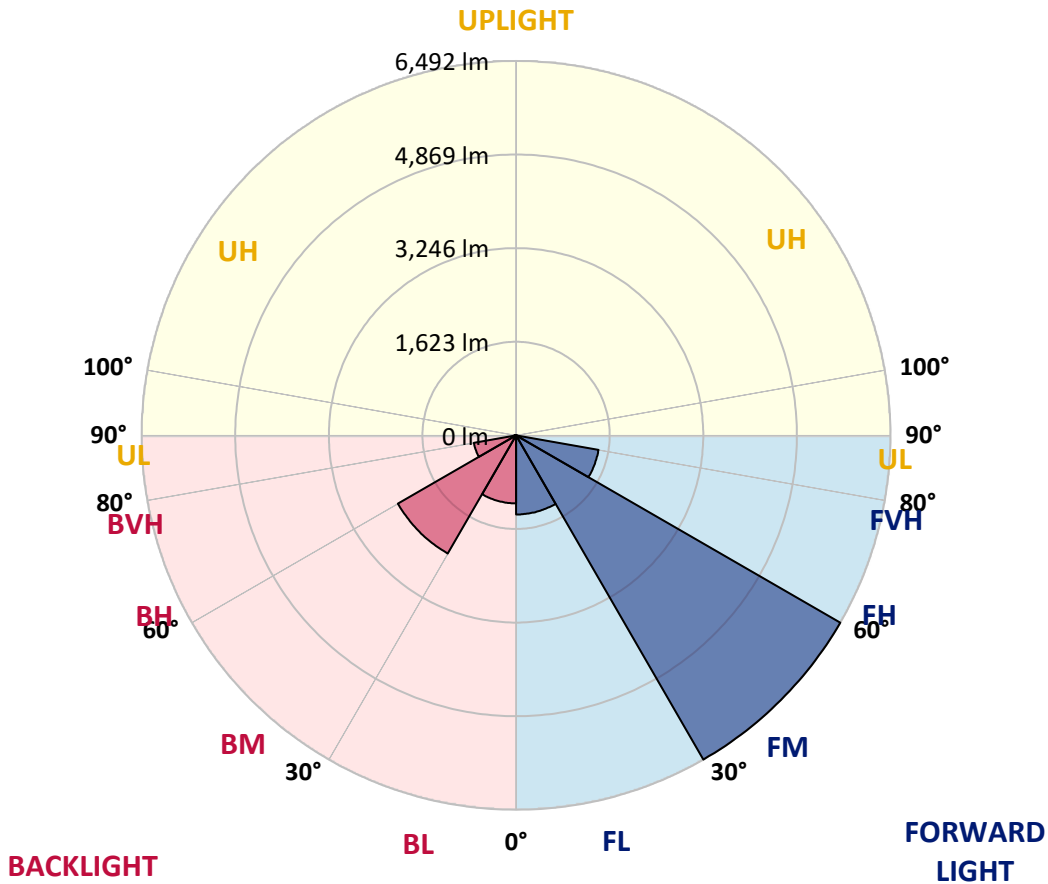
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.7	10.0			
FM (30°-60°)	6491.6	47.5			
FH (60°-80°)	1451.3	10.6			G1/1800
FVH (80°-90°)	19.6	0.1			G1/100
BL (0°-30°)	1179.0	8.6	B3/2500		
BM (30°-60°)	2367.2	17.3	B2/2500		
BH (60°-80°)	743.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	32.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6
2.5°	2528.0	2526.8	2526.8	2533.7	2533.7	2536.0	2539.5	2542.9	2544.1	2538.3	2525.7
5°	2555.5	2555.5	2555.5	2561.3	2561.3	2563.5	2568.1	2569.3	2568.1	2559.0	2546.3
7.5°	2599.1	2599.1	2600.3	2607.1	2612.9	2616.3	2624.3	2623.2	2619.8	2604.8	2588.8
10°	2670.2	2673.7	2677.1	2685.1	2696.6	2704.6	2710.4	2710.4	2705.8	2682.8	2662.2
12.5°	2771.2	2775.7	2779.2	2786.1	2795.2	2809.0	2821.6	2821.6	2815.9	2787.2	2756.2
15°	2889.3	2893.9	2892.7	2895.0	2912.2	2931.7	2942.1	2948.9	2951.2	2911.1	2862.9
17.5°	3024.6	3029.2	3024.6	3017.8	3020.1	3051.0	3069.4	3094.6	3109.5	3055.6	2978.8
20°	3147.4	3142.8	3142.8	3147.4	3154.3	3192.1	3219.6	3260.9	3279.3	3213.9	3094.6
22.5°	3277.0	3287.3	3282.7	3282.7	3310.2	3373.3	3406.6	3460.5	3480.0	3395.1	3234.5
25°	3444.4	3453.6	3451.3	3453.6	3485.7	3575.2	3608.5	3708.3	3727.8	3606.2	3389.4
27.5°	3628.0	3642.9	3649.8	3647.5	3699.1	3816.1	3857.4	3996.2	4031.7	3842.5	3554.6
30°	3866.5	3882.6	3888.3	3886.0	3946.8	4106.3	4153.3	4311.6	4362.0	4122.3	3764.5
32.5°	4143.0	4159.0	4176.2	4183.1	4261.1	4424.0	4491.7	4655.7	4727.9	4445.8	4017.9
35°	4417.1	4430.9	4464.1	4518.0	4624.7	4791.0	4850.7	5012.4	5082.4	4781.9	4324.2
37.5°	4719.9	4729.1	4757.8	4832.3	4986.0	5144.3	5203.9	5358.8	5366.8	5106.5	4670.6
40°	5051.4	5051.4	5045.7	5119.1	5279.7	5439.1	5490.7	5580.2	5533.1	5356.5	5007.8
42.5°	5332.4	5327.8	5332.4	5401.2	5520.5	5650.1	5694.9	5677.7	5618.0	5548.0	5312.9
45°	5585.9	5589.3	5630.6	5683.4	5745.3	5822.2	5848.6	5751.1	5697.2	5701.7	5557.2
47.5°	5758.0	5761.4	5857.7	5946.1	5983.9	6008.0	5996.5	5861.2	5833.7	5885.3	5745.3
50°	5780.9	5799.2	5965.6	6146.8	6240.8	6244.3	6212.2	6047.0	6039.0	6097.5	5846.3
52.5°	5785.5	5803.8	6011.4	6338.3	6582.6	6634.3	6597.6	6425.5	6341.8	6283.3	5970.1
55°	5768.3	5788.9	6018.3	6466.8	6934.8	7141.2	7144.7	6901.5	6634.3	6595.3	6323.4
57.5°	5092.7	5100.7	5456.3	6139.9	6921.0	7506.0	7550.7	7220.4	6915.3	6878.6	6606.7
60°	3547.7	3579.8	3966.3	4869.0	5814.2	6845.3	6989.8	6893.5	6689.3	6422.1	5668.5
62.5°	1776.7	1804.2	2191.9	3045.3	4009.9	4824.3	4979.1	5081.2	5129.4	4842.6	3859.7
65°	765.1	785.7	1026.6	1590.9	2269.9	2663.3	2717.2	2840.0	3140.5	2802.1	2079.5
67.5°	511.6	525.3	648.1	970.4	1337.4	1362.6	1354.6	1381.0	1446.4	1194.0	939.4
70°	392.3	403.7	486.3	711.1	961.2	822.4	778.8	706.6	767.3	782.3	761.6
72.5°	284.5	293.6	355.6	485.2	602.2	525.3	518.4	555.1	637.7	660.7	648.1
75°	183.5	188.1	226.0	266.1	310.8	337.2	351.0	417.5	501.2	518.4	503.5
77.5°	122.7	126.2	148.0	170.9	176.6	177.8	182.4	212.2	269.5	301.7	298.2
80°	64.2	64.2	72.3	72.3	82.6	98.6	103.2	122.7	149.1	165.2	166.3
82.5°	25.2	26.4	31.0	34.4	41.3	50.5	53.9	64.2	78.0	89.5	99.8
85°	10.3	11.5	12.6	14.9	18.4	22.9	24.1	27.5	36.7	45.9	51.6
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	3.4	4.6	5.7	10.3	13.8
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°	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6	2532.6
2.5°	2540.6	2525.7	2540.6	2545.2	2557.8	2562.4	2554.4	2553.2	2553.2	2541.8	2538.3
5°	2557.8	2544.1	2559.0	2565.8	2584.2	2595.7	2598.0	2607.1	2612.9	2608.3	2607.1
7.5°	2600.3	2583.0	2599.1	2609.4	2633.5	2651.9	2659.9	2680.5	2695.5	2693.2	2692.0
10°	2674.8	2651.9	2670.2	2687.4	2713.8	2735.6	2736.7	2748.2	2763.1	2758.5	2756.2
12.5°	2760.8	2739.0	2759.7	2776.9	2807.9	2817.0	2802.1	2797.5	2799.8	2794.1	2789.5
15°	2866.4	2835.4	2853.7	2873.2	2890.4	2880.1	2848.0	2835.4	2834.2	2826.2	2821.6
17.5°	2971.9	2932.9	2946.6	2957.0	2948.9	2916.8	2876.7	2854.9	2844.6	2828.5	2823.9
20°	3076.3	3026.9	3024.6	3016.6	2979.9	2921.4	2867.5	2823.9	2797.5	2775.7	2767.7
22.5°	3195.5	3126.7	3092.3	3055.6	2975.3	2880.1	2798.7	2736.7	2694.3	2666.8	2657.6
25°	3324.0	3226.5	3155.4	3082.0	2929.4	2791.8	2678.2	2593.4	2542.9	2513.1	2502.8
27.5°	3451.3	3317.1	3210.5	3085.4	2837.7	2664.5	2511.9	2397.2	2346.8	2322.7	2314.7
30°	3623.4	3437.6	3275.8	3040.7	2717.2	2487.8	2297.4	2181.6	2148.3	2131.1	2124.2
32.5°	3821.8	3590.1	3363.0	2946.6	2563.5	2281.4	2080.7	2000.4	1977.4	1944.2	1943.0
35°	4083.3	3808.0	3445.6	2807.9	2369.7	2060.0	1914.3	1857.0	1815.7	1762.9	1758.4
37.5°	4388.4	4079.9	3490.3	2631.2	2143.7	1877.6	1790.5	1726.2	1659.7	1589.7	1580.6
40°	4703.9	4397.6	3493.8	2422.5	1922.4	1757.2	1683.8	1600.1	1517.5	1439.5	1429.2
42.5°	5035.3	4693.5	3433.0	2181.6	1741.1	1652.8	1578.3	1472.8	1379.8	1327.1	1321.3
45°	5331.3	4932.1	3295.3	1928.1	1606.9	1565.7	1470.5	1356.9	1307.6	1269.7	1261.7
47.5°	5564.1	5090.4	3109.5	1701.0	1498.0	1476.2	1352.3	1293.8	1256.0	1221.6	1213.5
50°	5678.8	5126.0	2867.5	1516.3	1397.0	1370.7	1285.8	1241.1	1215.8	1188.3	1181.4
52.5°	5821.0	5166.1	2658.8	1361.5	1298.4	1262.8	1230.7	1195.2	1176.8	1159.6	1153.9
55°	6147.9	5317.5	2548.6	1237.6	1204.4	1188.3	1183.7	1153.9	1148.1	1136.7	1126.4
57.5°	6281.0	5220.0	2288.3	1136.7	1129.8	1132.1	1143.6	1116.0	1110.3	1096.5	1089.7
60°	5051.4	3945.7	1549.6	1049.5	1067.9	1082.8	1094.2	1066.7	1058.7	1056.4	1047.2
62.5°	3236.8	2427.1	1081.6	968.1	995.6	1013.9	1020.8	994.5	988.7	1007.1	1008.2
65°	1684.9	1322.5	877.5	880.9	903.8	931.4	945.1	936.0	933.7	953.2	954.3
67.5°	860.3	808.6	765.1	777.7	796.0	831.6	863.7	903.8	917.6	919.9	921.0
70°	732.9	710.0	688.2	696.2	715.7	735.2	766.2	785.7	762.8	757.0	754.7
72.5°	624.0	606.8	596.4	605.6	615.9	612.5	603.3	612.5	615.9	617.1	618.2
75°	485.2	472.6	464.5	465.7	465.7	453.1	435.9	425.5	414.1	404.9	404.9
77.5°	297.1	299.4	307.4	306.2	305.1	300.5	283.3	274.1	246.6	238.6	238.6
80°	169.8	173.2	181.2	183.5	183.5	177.8	160.6	150.3	137.6	131.9	130.8
82.5°	103.2	107.8	112.4	114.7	115.8	109.0	94.1	86.0	79.1	73.4	73.4
85°	53.9	56.2	60.8	61.9	58.5	51.6	43.6	40.1	33.3	32.1	32.1
87.5°	14.9	16.1	18.4	14.9	13.8	10.3	5.7	4.6	2.3	1.1	1.1
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)