

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: P633579

Luminaire Tested: GWS-SA2F-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-722-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

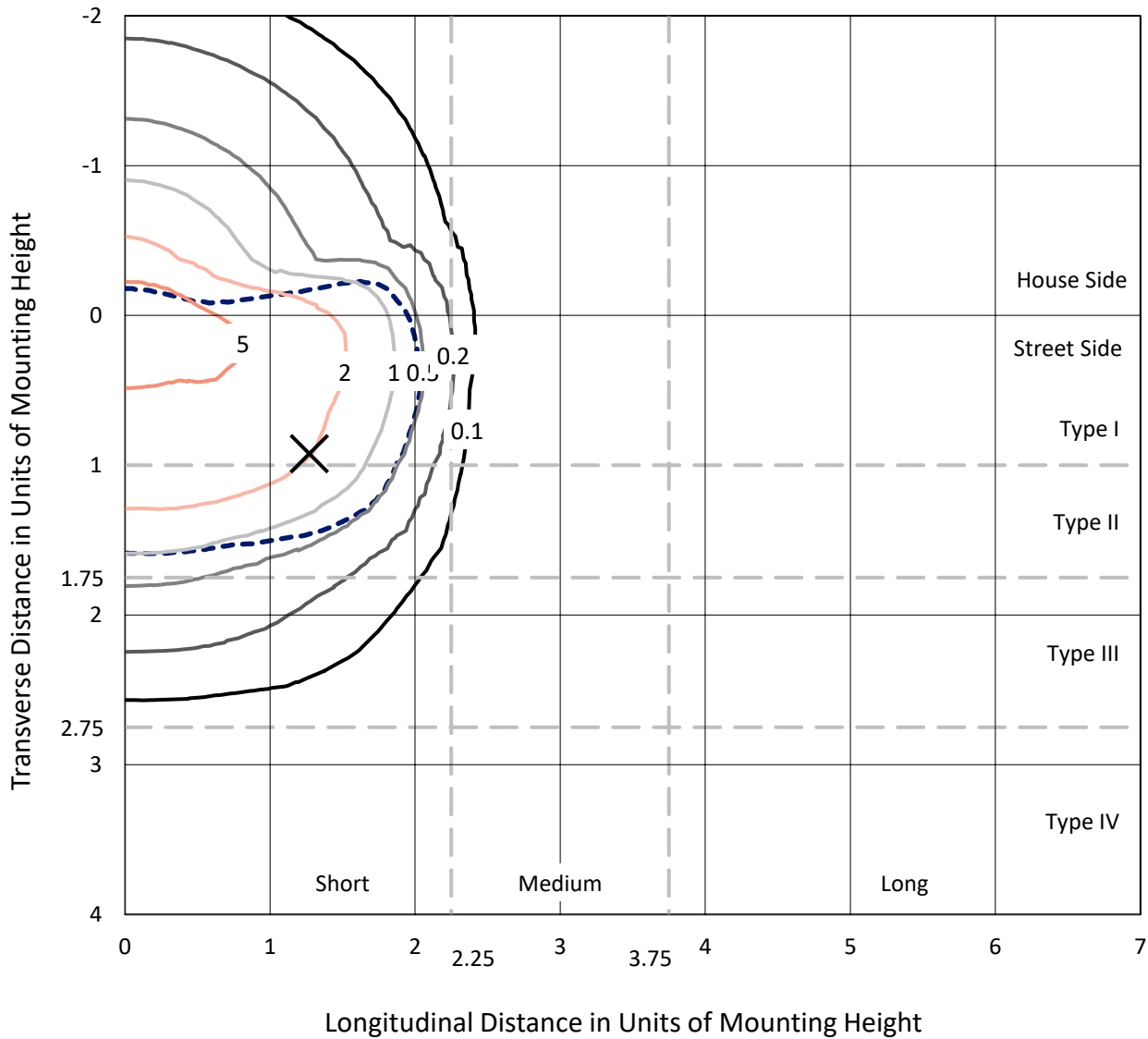
Lumens per Lamp: N/A  
Luminaire Lumens: 10007.1 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

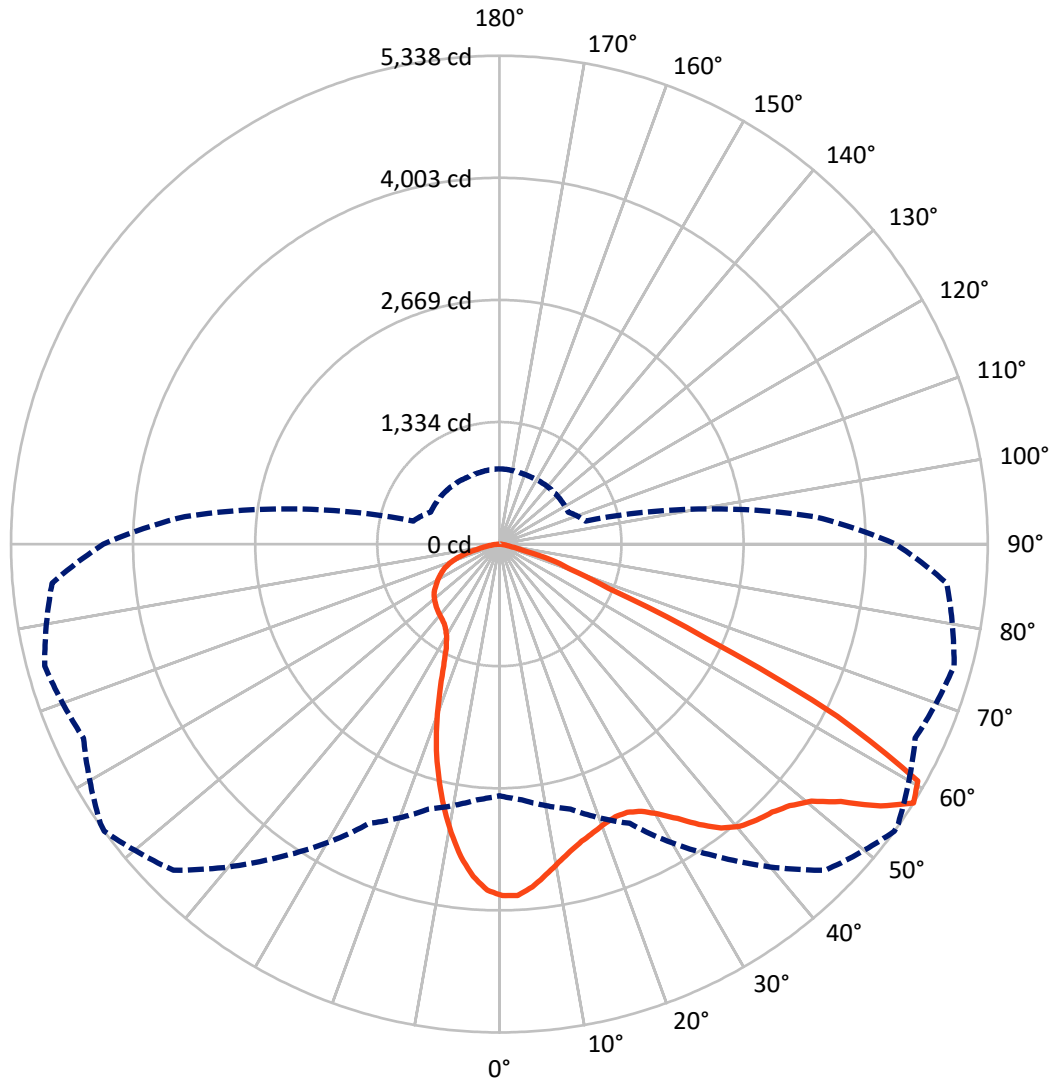
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2909.2	0.0	2909.2
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	7097.9	0.0	7097.9
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	10007.1	0.0	10007.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.7	3.4
10°-20°	805.8	8.1
20°-30°	1115.1	11.1
30°-40°	1549.5	15.5
40°-50°	2046.4	20.4
50°-60°	2431.8	24.3
60°-70°	1347.2	13.5
70°-80°	335.5	3.4
80°-90°	38.1	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°	10007.1	100.0
0°-180°	10007.1	100.0

**Coefficient of Utilization**



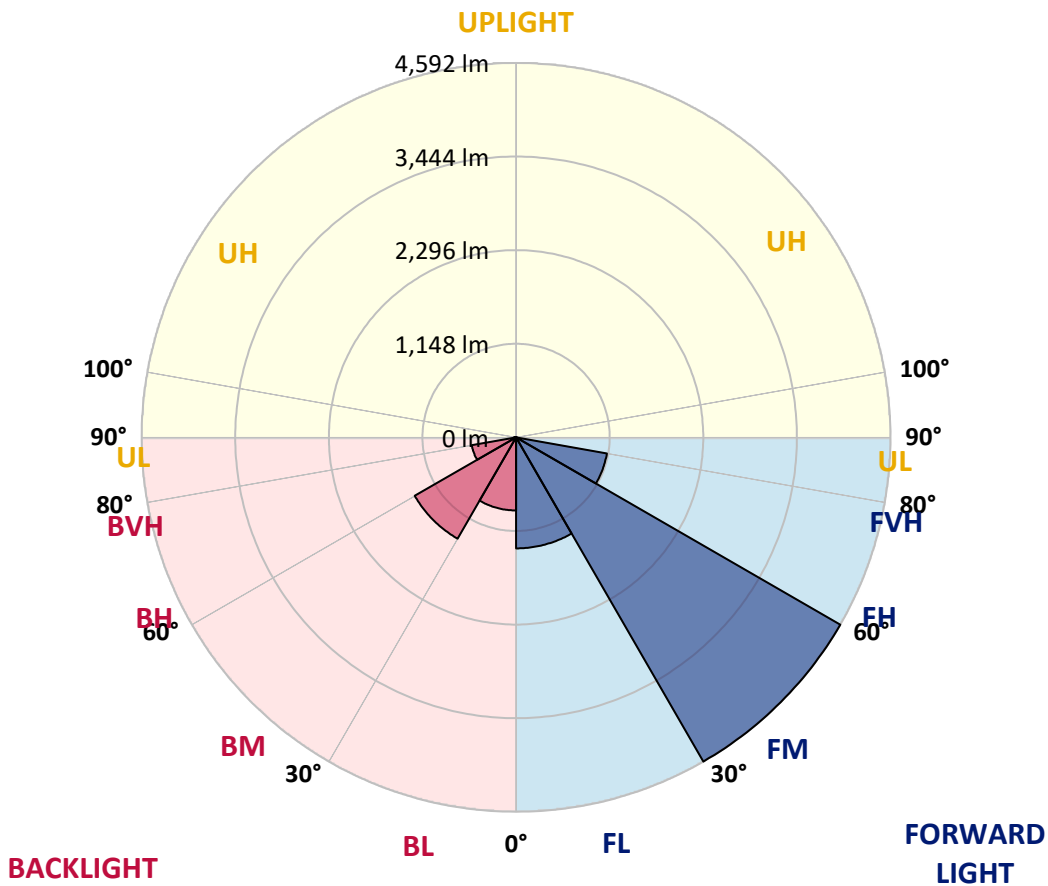
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.1	13.6			
FM (30°-60°)	4592.4	45.9			
FH (60°-80°)	1131.4	11.3			G1/1800
FVH (80°-90°)	11.9	0.1			G1/100
BL (0°-30°)	896.5	9.0	B2/1000		
BM (30°-60°)	1435.2	14.3	B2/2500		
BH (60°-80°)	551.3	5.5	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0
2.5°	3770.0	3777.7	3782.8	3800.8	3816.3	3830.0	3844.5	3844.5	3843.7	3841.1	3836.0
5°	3620.9	3629.5	3641.5	3666.3	3699.8	3723.7	3763.1	3766.6	3783.7	3790.6	3787.1
7.5°	3447.9	3450.5	3465.9	3498.4	3551.6	3594.4	3650.9	3657.8	3698.9	3722.9	3718.6
10°	3258.6	3250.0	3277.4	3325.4	3394.8	3466.8	3539.6	3545.6	3611.5	3656.9	3653.5
12.5°	3085.6	3086.4	3113.8	3172.1	3258.6	3347.7	3445.3	3459.0	3540.4	3598.7	3592.7
15°	2940.8	2944.2	2977.6	3043.6	3142.1	3248.3	3370.0	3382.8	3485.6	3562.7	3545.6
17.5°	2825.1	2828.6	2857.7	2933.1	3038.4	3166.9	3315.1	3328.0	3455.6	3547.3	3512.2
20°	2745.5	2743.8	2772.0	2844.0	2952.8	3092.4	3267.2	3286.0	3446.2	3553.3	3489.9
22.5°	2712.9	2712.1	2732.6	2791.7	2893.7	3035.0	3238.0	3263.7	3456.5	3579.8	3476.2
25°	2729.2	2725.8	2743.8	2787.5	2868.8	3012.7	3246.6	3274.0	3500.2	3634.7	3478.7
27.5°	2779.7	2775.5	2790.9	2830.3	2892.0	3035.9	3306.6	3338.3	3592.7	3734.9	3513.0
30°	2856.8	2854.3	2869.7	2907.4	2961.3	3113.0	3421.4	3457.3	3735.7	3890.8	3587.5
32.5°	2946.8	2942.5	2969.9	3013.6	3076.1	3253.5	3575.5	3622.7	3905.3	4091.2	3712.6
35°	3047.9	3044.4	3082.1	3145.5	3235.5	3448.8	3762.3	3813.7	4078.4	4318.2	3878.8
37.5°	3146.4	3146.4	3219.2	3313.4	3426.5	3661.2	3937.9	3970.4	4198.3	4519.5	4057.0
40°	3233.8	3238.9	3348.5	3489.9	3633.8	3853.1	4053.5	4081.0	4251.4	4658.3	4212.0
42.5°	3330.5	3334.8	3462.5	3647.5	3818.8	4008.1	4123.8	4137.5	4261.7	4727.7	4321.7
45°	3407.6	3413.6	3572.1	3770.0	3979.9	4124.6	4179.5	4191.5	4276.3	4765.4	4401.3
47.5°	3447.9	3456.5	3638.1	3868.5	4088.7	4229.1	4271.1	4276.3	4336.2	4831.4	4497.3
50°	3441.1	3458.2	3662.9	3917.3	4169.2	4334.5	4418.5	4427.0	4458.7	4928.2	4609.5
52.5°	3501.9	3509.6	3716.0	3975.6	4284.0	4529.0	4674.6	4686.6	4672.0	5001.0	4676.3
55°	3400.8	3437.6	3650.1	3967.0	4458.7	4829.6	5054.1	5048.1	4865.6	5082.3	4787.7
57.5°	2750.6	2804.6	2999.0	3367.4	4170.9	5040.4	5337.6	5323.1	5015.5	5144.9	4908.4
60°	1904.3	1912.8	2088.4	2349.7	3219.2	4452.7	5254.5	5286.2	5042.9	5066.1	4684.9
62.5°	1523.1	1520.5	1536.8	1543.6	2047.3	3130.1	4147.8	4263.4	4189.7	3947.3	3320.3
65°	1300.4	1309.8	1357.7	1332.9	1336.3	1762.9	2478.2	2494.5	2443.1	2355.7	1756.1
67.5°	1017.7	1033.9	1118.7	1215.5	1184.7	1135.0	1285.8	1278.1	1007.4	779.5	644.2
70°	637.3	647.6	738.4	954.3	1031.4	932.0	826.6	823.2	539.7	443.7	486.6
72.5°	371.8	373.5	399.2	532.0	684.4	637.3	608.2	585.9	346.9	353.8	388.1
75°	204.7	204.7	203.9	229.6	269.8	239.0	231.3	225.3	232.1	263.0	288.7
77.5°	42.8	43.7	46.3	60.8	78.8	95.9	120.8	121.6	151.6	175.6	196.2
80°	19.7	20.6	25.7	32.6	42.0	55.7	73.7	74.5	91.7	110.5	124.2
82.5°	10.3	11.1	13.7	17.1	22.3	29.1	41.1	41.1	54.8	65.1	73.7
85°	3.4	3.4	5.1	6.9	9.4	12.0	16.3	16.3	24.0	31.7	36.8
87.5°	0.0	0.0	0.0	0.0	0.9	1.7	3.4	3.4	4.3	5.1	8.6
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°	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0	3842.0
2.5°	3824.8	3798.3	3799.1	3804.3	3788.0	3763.1	3746.9	3726.3	3713.5	3710.9	3720.3
5°	3770.0	3739.2	3717.7	3695.5	3649.2	3594.4	3551.6	3516.4	3493.3	3484.7	3474.5
7.5°	3694.6	3654.4	3600.4	3537.9	3453.9	3356.2	3287.7	3223.5	3178.9	3166.1	3160.1
10°	3619.2	3561.0	3465.0	3348.5	3208.9	3077.0	2952.8	2857.7	2782.3	2739.5	2753.2
12.5°	3541.3	3469.3	3319.4	3140.4	2945.9	2747.2	2584.4	2426.8	2305.2	2244.4	2226.4
15°	3472.7	3375.1	3166.1	2923.7	2665.0	2414.8	2179.2	1942.8	1788.6	1704.7	1681.6
17.5°	3414.5	3287.7	3004.2	2702.6	2393.4	2037.0	1747.5	1528.2	1422.9	1376.6	1373.2
20°	3357.1	3202.1	2844.0	2464.5	2079.9	1680.7	1422.0	1319.2	1281.5	1265.2	1264.4
22.5°	3305.7	3112.1	2675.2	2226.4	1768.1	1412.6	1270.4	1225.8	1215.5	1215.5	1213.8
25°	3262.0	3022.2	2502.2	1973.7	1486.2	1257.5	1191.6	1172.7	1177.0	1184.7	1185.6
27.5°	3244.0	2951.9	2335.2	1714.1	1291.8	1167.6	1137.6	1135.0	1147.0	1159.0	1160.7
30°	3262.9	2904.0	2163.8	1465.7	1175.3	1112.8	1099.0	1104.2	1118.7	1130.7	1130.7
32.5°	3321.1	2880.0	1989.1	1284.1	1107.6	1074.2	1069.9	1075.1	1086.2	1093.1	1093.9
35°	3419.6	2889.4	1808.3	1161.6	1063.9	1045.9	1045.1	1048.5	1052.8	1057.1	1057.9
37.5°	3543.8	2931.4	1614.7	1090.5	1035.7	1025.4	1023.7	1022.8	1023.7	1023.7	1024.5
40°	3665.5	2994.8	1441.7	1048.5	1016.0	1007.4	1003.1	997.1	996.3	994.5	993.7
42.5°	3755.4	3043.6	1303.8	1018.5	998.0	987.7	982.5	973.1	972.3	971.4	970.6
45°	3823.1	3084.7	1189.0	989.4	979.1	969.7	958.6	950.0	951.7	953.4	953.4
47.5°	3899.3	3120.7	1105.0	962.0	956.0	946.6	932.9	926.9	932.9	938.9	938.9
50°	3991.9	3171.2	1036.5	934.6	932.0	920.9	908.9	906.3	913.2	921.7	921.7
52.5°	4059.5	3214.9	987.7	907.2	907.2	892.6	882.3	881.5	889.2	897.7	898.6
55°	4186.3	3316.8	970.6	875.5	872.0	860.9	853.2	847.2	856.6	864.3	864.3
57.5°	4329.4	3452.2	974.8	830.1	825.8	822.4	816.4	809.5	812.1	820.6	821.5
60°	4026.1	3190.1	927.7	784.7	782.1	780.4	772.7	760.7	764.1	771.0	771.8
62.5°	2812.3	2120.1	750.4	728.1	736.7	735.8	725.6	711.9	712.7	722.1	722.1
65°	1459.7	1147.0	658.7	676.7	689.6	684.4	667.3	655.3	653.6	665.6	663.0
67.5°	629.6	626.2	599.6	622.8	636.5	625.3	607.3	587.6	589.4	593.6	590.2
70°	507.1	522.5	533.7	558.5	569.7	549.1	529.4	518.3	508.8	508.0	502.0
72.5°	405.2	426.6	451.4	477.1	480.6	460.0	435.2	424.9	410.3	409.5	403.5
75°	305.0	322.9	342.6	363.2	363.2	343.5	327.2	322.1	305.0	299.8	294.7
77.5°	208.2	219.3	234.7	239.9	245.0	237.3	221.0	212.4	192.7	187.6	180.7
80°	131.1	138.8	148.2	151.6	156.8	147.3	134.5	125.1	111.4	107.1	103.7
82.5°	78.8	83.9	89.9	91.7	95.9	89.1	77.1	70.2	62.5	59.1	56.5
85°	40.3	42.8	46.3	47.1	46.3	39.4	35.1	31.7	26.6	25.7	24.0
87.5°	10.3	12.0	12.8	12.0	11.1	8.6	6.0	4.3	1.7	1.7	0.9
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)