

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: P643473

Luminaire Tested: GWS-SA6F-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37739.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

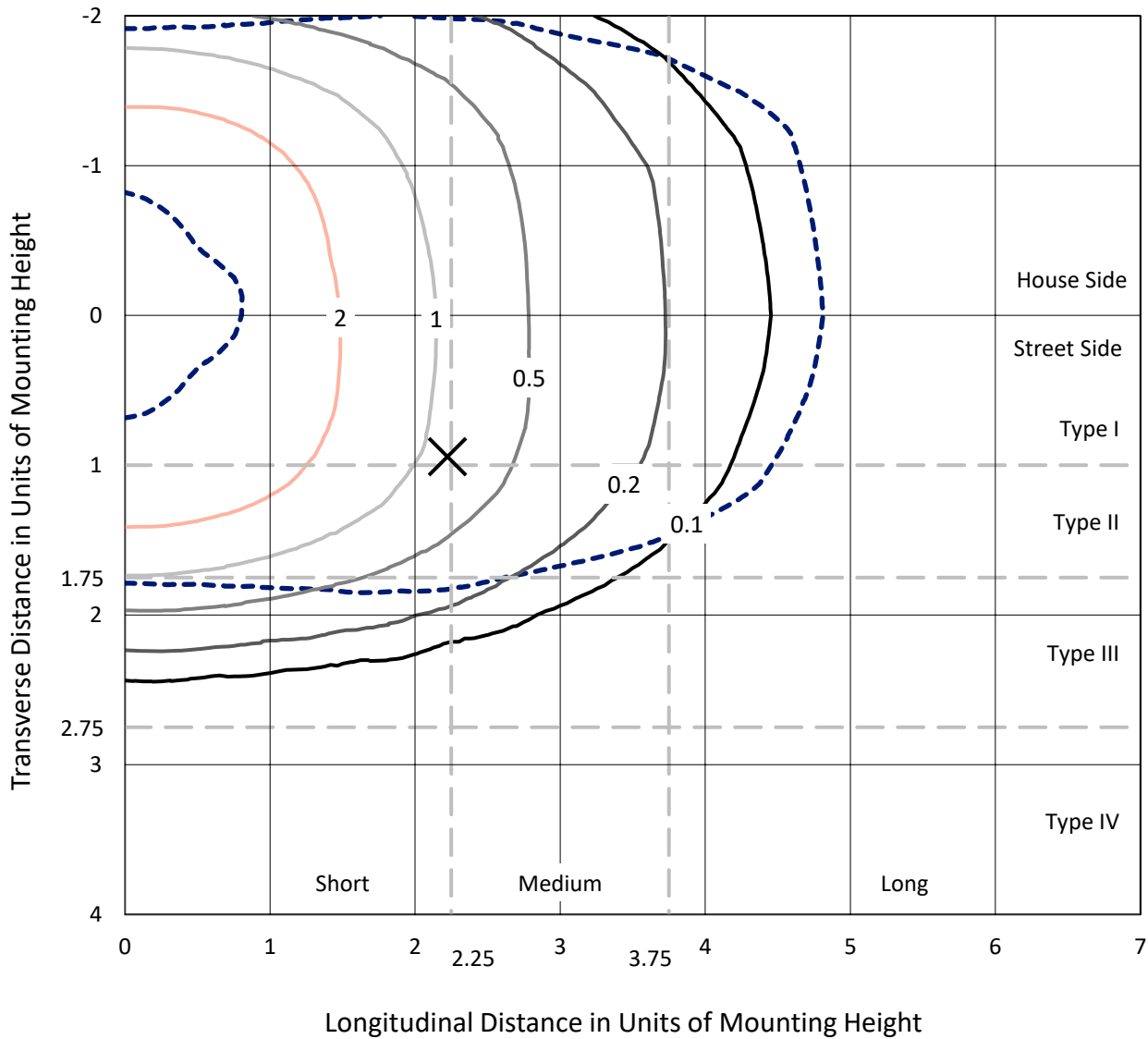
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

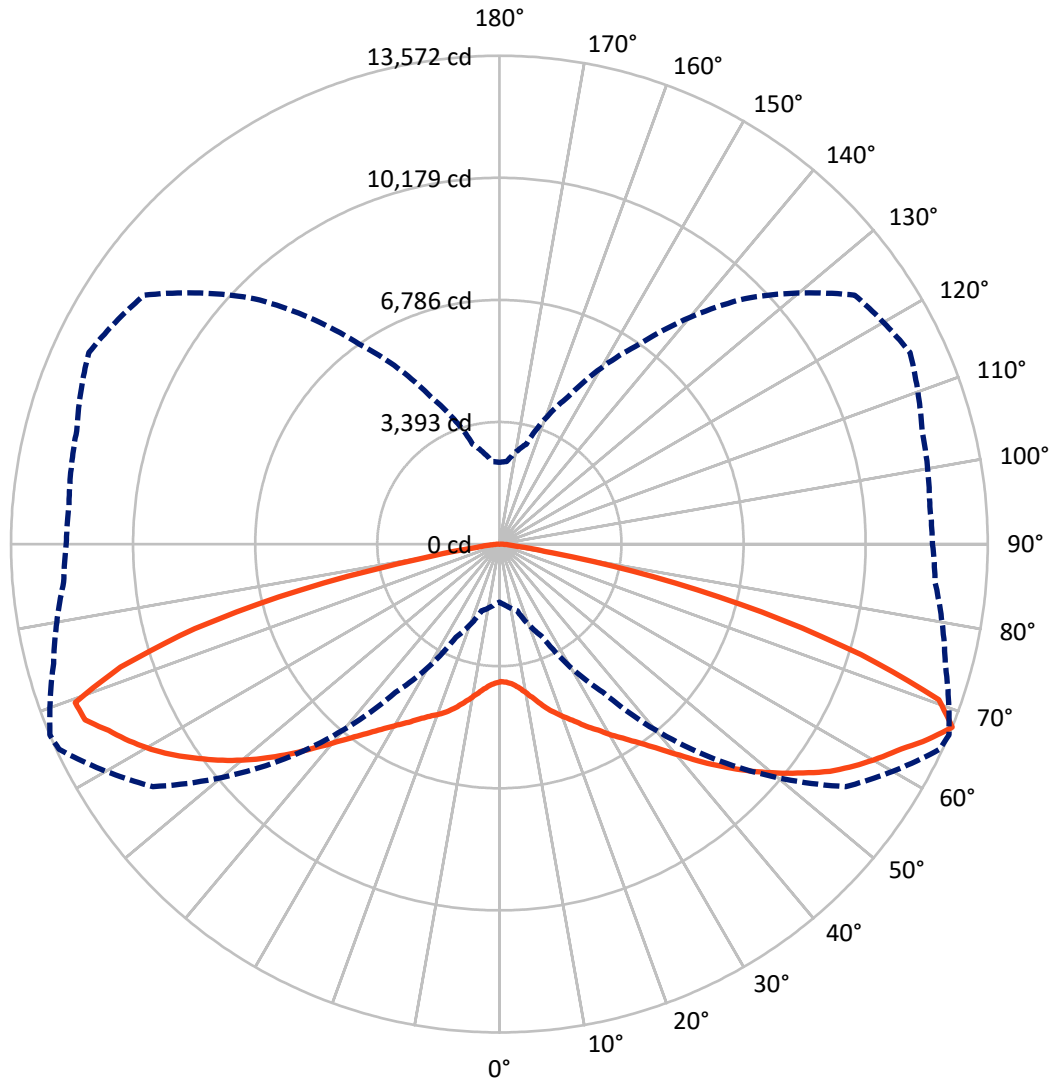
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18661.4	0.0	18661.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	19077.8	0.0	19077.8
	% Fixture	50.6	0.0	50.6
Total	Lumens	37739.2	0.0	37739.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.9	1.0
10°-20°	1266.6	3.4
20°-30°	2485.1	6.6
30°-40°	4233.8	11.2
40°-50°	6798.6	18.0
50°-60°	9237.9	24.5
60°-70°	8836.6	23.4
70°-80°	4201.3	11.1
80°-90°	304.5	0.8
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°	37739.2	100.0
0°-180°	37739.2	100.0

Coefficient of Utilization



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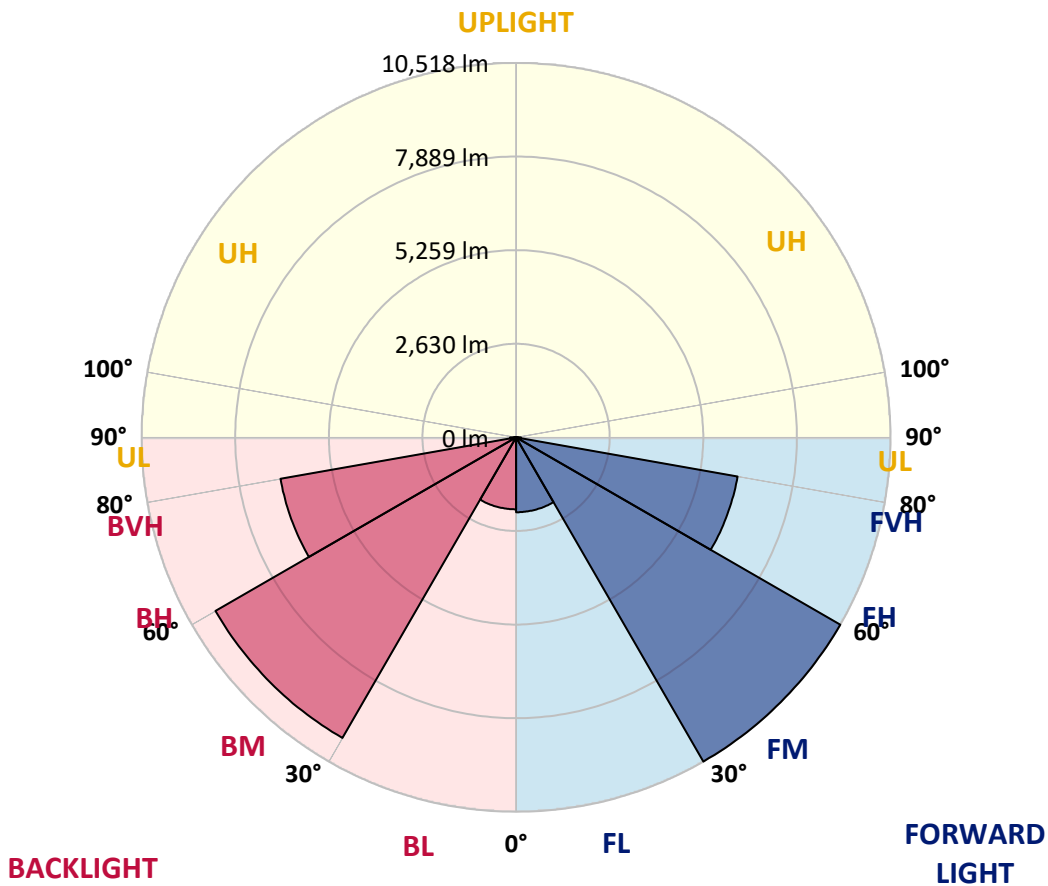
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2104.2	5.6			
FM (30°-60°)	10518.2	27.9			
FH (60°-80°)	6318.5	16.7			G3/7500
FVH (80°-90°)	136.8	0.4			G2/225
BL (0°-30°)	2022.4	5.4	B3/2500		
BM (30°-60°)	9752.0	25.8	B5		
BH (60°-80°)	6719.4	17.8	B5		G5
BVH (80°-90°)	167.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3
2.5°	3742.5	3747.7	3755.6	3771.4	3787.1	3810.8	3834.4	3831.8	3842.3	3850.2	3858.1
5°	3721.4	3726.7	3739.8	3760.9	3784.5	3823.9	3873.9	3894.9	3910.7	3939.6	3965.9
7.5°	3766.1	3776.6	3795.0	3823.9	3860.7	3910.7	3979.0	4015.8	4039.4	4092.0	4136.7
10°	3826.6	3839.7	3876.5	3931.7	3986.9	4063.1	4149.8	4205.0	4220.8	4289.1	4373.2
12.5°	3884.4	3900.1	3960.6	4060.5	4160.3	4262.8	4365.3	4433.7	4438.9	4530.9	4625.5
15°	3976.4	3989.5	4071.0	4199.8	4352.2	4494.1	4620.3	4667.6	4688.6	4754.3	4872.6
17.5°	4178.7	4194.5	4299.6	4438.9	4599.2	4749.0	4875.2	4914.6	4914.6	4969.8	5067.0
20°	4396.9	4412.6	4551.9	4730.6	4925.1	5077.6	5174.8	5138.0	5124.9	5140.6	5209.0
22.5°	4641.3	4670.2	4804.2	5011.8	5251.0	5437.6	5487.5	5377.2	5340.4	5303.6	5319.3
25°	4954.0	4988.2	5119.6	5340.4	5574.3	5771.4	5800.3	5629.5	5608.4	5479.7	5432.3
27.5°	5314.1	5340.4	5503.3	5721.4	5939.6	6105.2	6136.7	5926.4	5855.5	5676.8	5566.4
30°	5779.3	5802.9	5944.8	6160.3	6349.6	6465.2	6504.6	6215.5	6160.3	5887.0	5716.2
32.5°	6286.5	6297.0	6441.6	6649.2	6817.4	6927.8	6872.6	6536.2	6454.7	6147.2	5913.3
35°	6867.3	6867.3	7053.9	7222.1	7356.1	7387.7	7282.6	6898.8	6804.2	6470.5	6178.7
37.5°	7437.6	7453.4	7626.8	7826.6	7944.8	7939.6	7747.7	7327.2	7219.5	6856.8	6533.5
40°	8055.2	8089.4	8262.8	8486.2	8599.2	8583.5	8289.1	7821.3	7710.9	7282.6	6967.2
42.5°	8622.9	8678.1	8880.5	9109.1	9232.6	9222.1	8914.6	8389.0	8281.2	7797.7	7482.3
45°	9074.9	9132.8	9385.1	9703.1	9900.2	9881.8	9571.7	8977.7	8846.3	8339.1	7992.2
47.5°	9471.8	9532.2	9813.4	10149.8	10462.6	10494.1	10210.3	9571.7	9432.4	8919.9	8528.3
50°	9776.7	9805.6	10120.9	10488.9	10851.6	11027.6	10780.6	10168.2	10000.0	9492.8	9051.3
52.5°	9753.0	9792.4	10181.4	10680.7	11166.9	11456.0	11285.2	10730.7	10567.7	10015.8	9584.8
55°	9272.1	9311.5	9774.0	10502.0	11343.0	11768.8	11750.4	11266.8	11148.5	10549.3	10139.3
57.5°	8570.3	8657.1	9117.0	9902.8	11111.7	12018.4	12092.0	11755.6	11632.1	11072.3	10688.6
60°	7314.1	7429.7	7960.6	8980.3	10370.6	11934.3	12457.3	12168.3	12092.0	11558.5	11185.3
62.5°	5314.1	5398.2	6105.2	7442.9	9272.1	11335.1	12764.8	12594.0	12536.2	11994.8	11634.7
65°	3182.7	3374.5	3942.2	5264.1	7479.7	10205.0	12596.6	13151.2	13090.7	12444.2	12018.4
67.5°	1611.0	1697.8	1921.2	2854.2	5030.2	8444.2	11753.0	13498.1	13571.7	12827.9	12155.1
70°	998.7	1022.3	1085.4	1408.7	2512.5	5548.0	9611.1	12594.0	12954.1	12767.5	11800.3
72.5°	801.6	806.8	817.3	877.8	1206.3	2594.0	6076.2	9863.4	10512.5	11923.8	11293.1
75°	664.9	667.5	670.2	688.6	751.6	1059.1	2956.6	6778.0	7537.5	10134.1	10470.5
77.5°	533.5	520.4	530.9	538.8	554.5	591.3	1019.7	3616.3	4386.4	6651.8	8097.3
80°	346.9	341.7	362.7	370.6	386.3	410.0	544.0	1227.3	1490.2	2420.5	2575.6
82.5°	186.6	176.1	220.8	212.9	220.8	239.2	320.6	449.4	504.6	730.6	617.6
85°	57.8	57.8	60.4	71.0	86.7	84.1	139.3	220.8	244.4	312.7	231.3
87.5°	10.5	10.5	10.5	10.5	10.5	13.1	28.9	44.7	60.4	107.8	81.5
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°	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3	3821.3
2.5°	3873.9	3850.2	3863.4	3871.2	3868.6	3863.4	3837.1	3831.8	3818.7	3797.7	3792.4
5°	3989.5	3963.2	3965.9	3958.0	3931.7	3897.5	3839.7	3810.8	3787.1	3760.9	3758.2
7.5°	4170.8	4141.9	4134.1	4097.3	4023.7	3944.8	3852.8	3800.3	3760.9	3726.7	3721.4
10°	4402.1	4373.2	4346.9	4260.2	4139.3	4034.2	3913.3	3837.1	3779.3	3737.2	3729.3
12.5°	4659.7	4636.0	4570.3	4444.2	4299.6	4176.1	4052.6	3958.0	3873.9	3810.8	3802.9
15°	4946.1	4893.6	4793.7	4630.8	4494.1	4394.2	4244.4	4115.7	3981.6	3897.5	3879.1
17.5°	5145.9	5101.2	4982.9	4825.3	4717.5	4630.8	4454.7	4270.7	4089.4	3965.9	3939.6
20°	5287.8	5240.5	5106.5	4990.8	4956.7	4883.1	4678.1	4465.2	4254.9	4102.5	4068.3
22.5°	5390.3	5340.4	5203.7	5145.9	5193.2	5180.0	4980.3	4738.5	4488.8	4307.5	4265.5
25°	5487.5	5440.2	5319.3	5340.4	5466.5	5505.9	5290.4	5009.2	4725.4	4512.5	4462.6
27.5°	5579.5	5519.1	5463.9	5579.5	5758.2	5831.8	5603.2	5285.2	4977.7	4759.5	4720.1
30°	5721.4	5650.5	5642.6	5810.8	6094.6	6157.7	5905.4	5587.4	5282.5	5061.8	5011.8
32.5°	5900.2	5834.5	5839.7	6092.0	6420.5	6473.1	6257.6	5960.6	5655.7	5435.0	5366.6
35°	6141.9	6060.5	6105.2	6415.3	6746.4	6843.7	6670.2	6423.2	6126.2	5900.2	5823.9
37.5°	6475.7	6357.5	6449.4	6775.3	7109.1	7253.6	7119.6	6935.6	6641.3	6412.6	6341.7
40°	6901.5	6804.2	6841.0	7201.1	7545.4	7718.8	7634.7	7453.4	7161.7	6922.5	6841.0
42.5°	7406.1	7308.8	7295.7	7679.4	8023.7	8286.5	8205.0	8039.5	7737.2	7463.9	7385.1
45°	7900.2	7810.8	7829.2	8220.8	8607.1	8893.6	8812.1	8617.6	8289.1	7973.8	7910.7
47.5°	8415.3	8341.7	8357.5	8772.7	9198.5	9484.9	9382.4	9145.9	8762.2	8425.8	8349.6
50°	8943.5	8859.4	8883.1	9319.4	9779.3	10050.0	9892.3	9542.7	9119.6	8791.1	8725.4
52.5°	9469.2	9369.3	9429.7	9842.4	10318.0	10533.6	10241.8	9818.7	9408.7	9082.8	9009.2
55°	10073.6	9968.5	9902.8	10344.3	10814.8	10904.1	10504.6	10010.6	9524.4	9153.8	9109.1
57.5°	10625.5	10536.2	10412.7	10854.2	11201.1	11135.4	10707.0	9958.0	9243.1	8767.4	8704.4
60°	11119.6	11043.4	10935.7	11311.5	11469.2	11322.0	10544.1	9335.1	8549.3	8052.6	8023.7
62.5°	11574.3	11492.8	11393.0	11713.6	11692.6	11350.9	9802.9	8378.5	7327.2	6793.7	6746.4
65°	11934.3	11860.8	11831.9	12084.2	12050.0	10785.9	8649.2	6812.1	5353.5	4751.7	4733.3
67.5°	12036.8	12007.9	12163.0	12591.4	12057.9	9650.5	6783.2	4517.8	2875.2	2304.9	2270.7
70°	11653.1	11650.5	12094.7	12707.0	10964.6	7371.9	4002.6	2036.8	1445.5	1282.5	1261.5
72.5°	11153.8	11145.9	11498.1	10961.9	8131.4	4034.2	1684.6	1090.7	904.1	859.4	859.4
75°	10333.8	10312.8	10578.2	8339.1	4573.0	1519.1	893.6	749.0	709.6	701.7	701.7
77.5°	8423.2	8247.1	7829.2	5153.8	1595.3	746.4	591.3	588.7	565.0	562.4	562.4
80°	2770.1	2770.1	3219.5	1965.8	704.3	459.9	417.9	438.9	415.2	399.5	396.8
82.5°	452.0	622.9	885.7	562.4	381.1	286.5	257.6	273.3	286.5	228.6	228.6
85°	178.7	233.9	341.7	262.8	176.1	115.6	123.5	136.7	120.9	105.1	102.5
87.5°	68.3	84.1	120.9	63.1	36.8	21.0	13.1	13.1	10.5	10.5	10.5
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)