

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: P643693

Luminaire Tested: GWS-SA6F-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643693
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-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51234.6 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

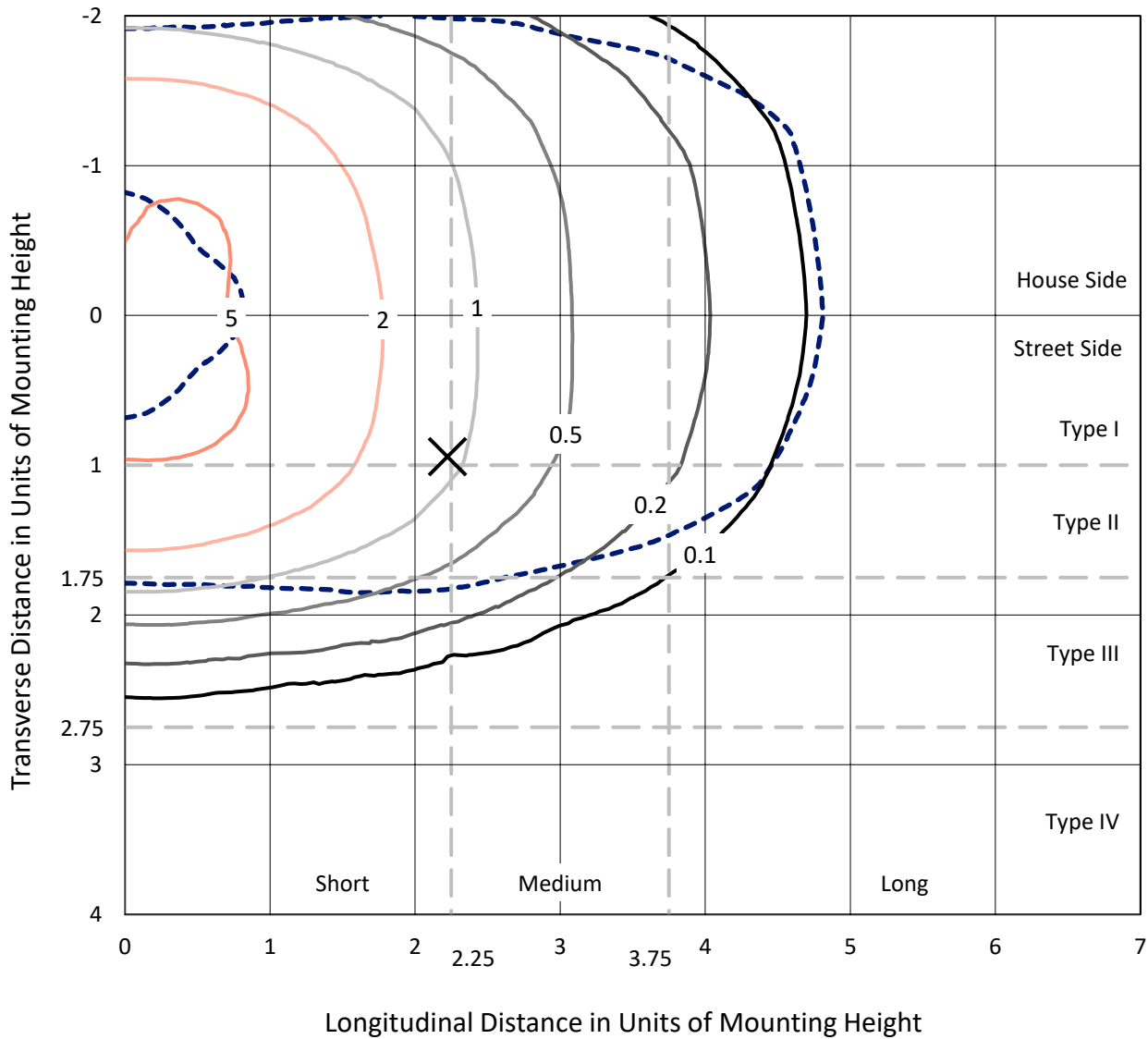
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

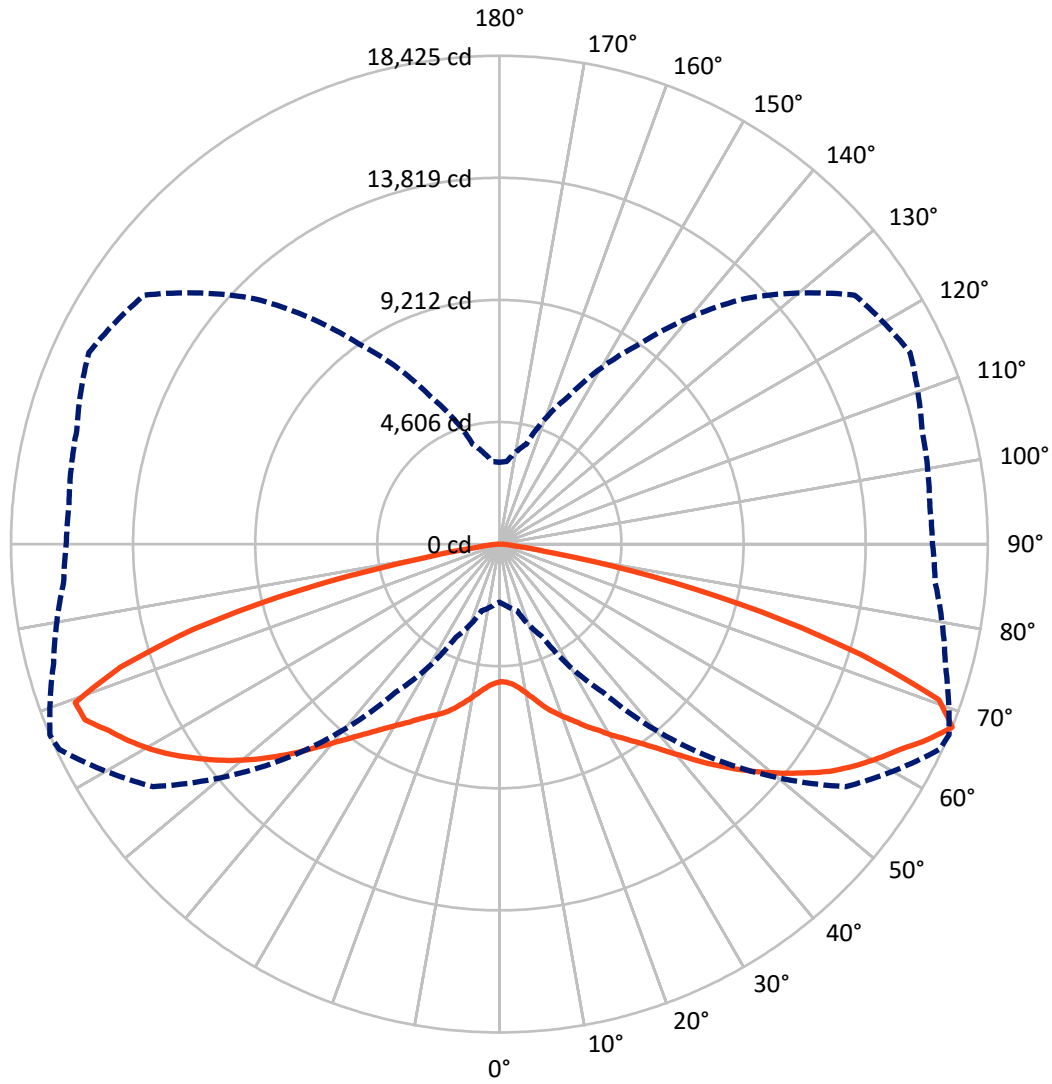
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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	25334.6	0.0	25334.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	25900.0	0.0	25900.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	51234.6	0.0	51234.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.0	1.0
10°-20°	1719.6	3.4
20°-30°	3373.7	6.6
30°-40°	5747.8	11.2
40°-50°	9229.7	18.0
50°-60°	12541.3	24.5
60°-70°	11996.6	23.4
70°-80°	5703.6	11.1
80°-90°	413.3	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°	51234.6	100.0
0°-180°	51234.6	100.0

Coefficient of Utilization



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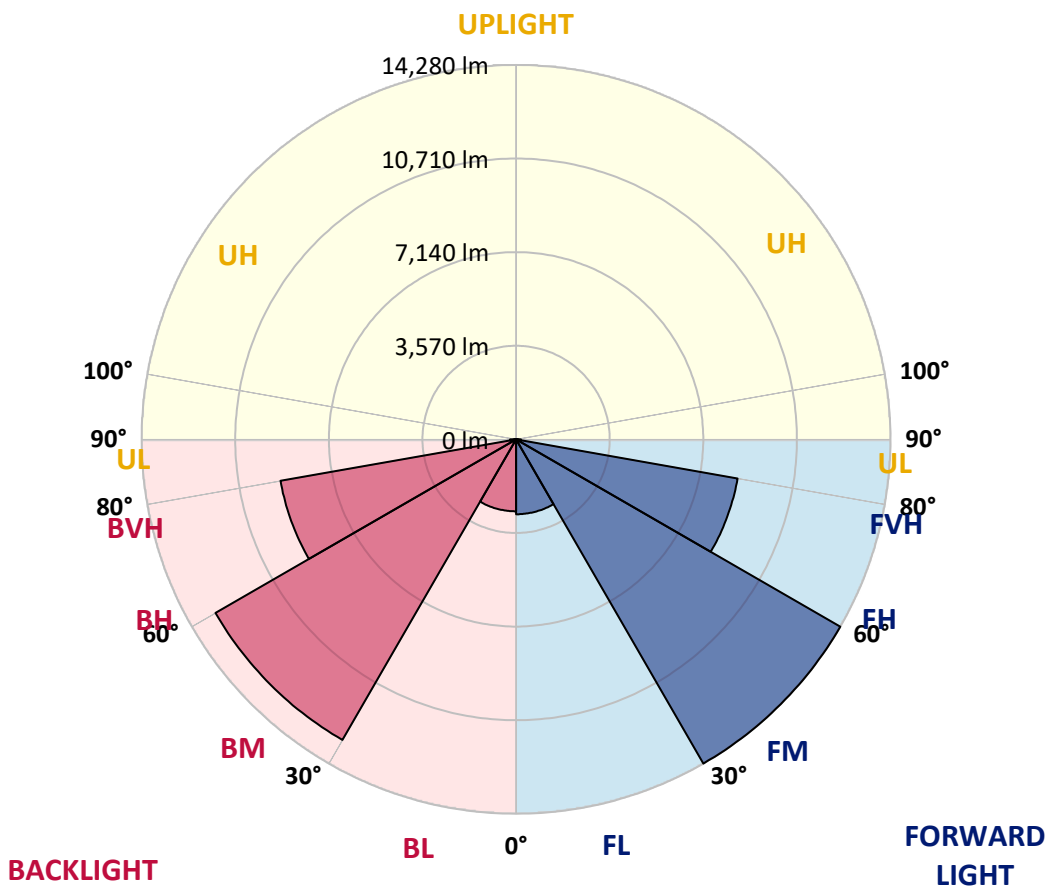
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2856.7	5.6			
FM (30°-60°)	14279.5	27.9			
FH (60°-80°)	8578.0	16.7			G4/12000
FVH (80°-90°)	185.8	0.4			G2/225
BL (0°-30°)	2745.6	5.4	B4/5000		
BM (30°-60°)	13239.3	25.8	B5		
BH (60°-80°)	9122.2	17.8	B5		G5
BVH (80°-90°)	227.5	0.4			G3/500
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°	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8
2.5°	5080.8	5087.9	5098.6	5120.0	5141.4	5173.5	5205.6	5202.1	5216.3	5227.0	5237.7
5°	5052.2	5059.3	5077.2	5105.7	5137.8	5191.4	5259.1	5287.7	5309.1	5348.3	5384.0
7.5°	5112.9	5127.1	5152.1	5191.4	5241.3	5309.1	5401.9	5451.8	5483.9	5555.3	5615.9
10°	5194.9	5212.8	5262.7	5337.6	5412.6	5516.0	5633.8	5708.7	5730.1	5822.9	5937.1
12.5°	5273.4	5294.8	5376.9	5512.5	5648.1	5787.2	5926.4	6019.1	6026.3	6151.1	6279.6
15°	5398.3	5416.1	5526.7	5701.6	5908.5	6101.2	6272.4	6336.7	6365.2	6454.4	6615.0
17.5°	5673.0	5694.4	5837.2	6026.3	6243.9	6447.3	6618.5	6672.1	6672.1	6747.0	6879.0
20°	5969.2	5990.6	6179.7	6422.3	6686.3	6893.3	7025.3	6975.3	6957.5	6978.9	7071.7
22.5°	6301.0	6340.2	6522.2	6804.1	7128.7	7382.1	7449.9	7300.0	7250.1	7200.1	7221.5
25°	6725.6	6772.0	6950.4	7250.1	7567.6	7835.2	7874.4	7642.5	7614.0	7439.2	7374.9
27.5°	7214.4	7250.1	7471.3	7767.4	8063.6	8288.3	8331.1	8045.7	7949.4	7706.8	7556.9
30°	7845.9	7878.0	8070.7	8363.3	8620.1	8777.1	8830.7	8438.2	8363.3	7992.2	7760.3
32.5°	8534.5	8548.8	8745.0	9026.9	9255.2	9405.1	9330.2	8873.5	8762.9	8345.4	8027.9
35°	9323.0	9323.0	9576.4	9804.7	9986.7	10029.5	9886.8	9365.8	9237.4	8784.3	8388.2
37.5°	10097.3	10118.7	10354.2	10625.3	10785.9	10778.8	10518.3	9947.4	9801.1	9308.8	8869.9
40°	10935.7	10982.1	11217.6	11520.9	11674.3	11652.9	11253.3	10618.2	10468.3	9886.8	9458.6
42.5°	11706.4	11781.3	12056.1	12366.5	12534.2	12519.9	12102.5	11388.9	11242.6	10586.1	10157.9
45°	12320.1	12398.6	12741.1	13172.8	13440.4	13415.5	12994.4	12188.1	12009.7	11321.1	10850.1
47.5°	12858.9	12940.9	13322.7	13779.4	14204.0	14246.8	13861.5	12994.4	12805.3	12109.6	11578.0
50°	13272.7	13312.0	13740.1	14239.7	14732.0	14971.1	14635.7	13804.4	13576.0	12887.4	12288.0
52.5°	13240.6	13294.2	13822.2	14500.1	15160.2	15552.7	15320.7	14567.9	14346.7	13597.4	13012.3
55°	12587.7	12641.2	13269.2	14257.5	15399.2	15977.2	15952.3	15295.8	15135.2	14321.7	13765.1
57.5°	11635.1	11752.8	12377.2	13444.0	15085.3	16316.2	16416.1	15959.4	15791.7	15031.7	14510.8
60°	9929.6	10086.6	10807.3	12191.7	14079.1	16202.0	16912.0	16519.6	16416.1	15691.8	15185.2
62.5°	7214.4	7328.6	8288.3	10104.4	12587.7	15388.5	17329.5	17097.6	17019.1	16284.1	15795.3
65°	4320.8	4581.2	5351.9	7146.6	10154.4	13854.3	17101.1	17854.0	17771.9	16894.2	16316.2
67.5°	2187.1	2304.9	2608.2	3874.8	6829.0	11463.8	15955.8	18325.0	18424.9	17415.1	16501.7
70°	1355.8	1387.9	1473.6	1912.4	3411.0	7531.9	13048.0	17097.6	17586.4	17333.1	16020.1
72.5°	1088.2	1095.4	1109.6	1191.7	1637.7	3521.6	8249.1	13390.5	14271.8	16187.8	15331.5
75°	902.7	906.3	909.8	934.8	1020.4	1437.9	4013.9	9201.7	10232.9	13758.0	14214.7
77.5°	724.3	706.5	720.7	731.4	752.8	802.8	1384.4	4909.5	5954.9	9030.5	10992.8
80°	471.0	463.8	492.4	503.1	524.5	556.6	738.6	1666.2	2023.0	3286.1	3496.6
82.5°	253.3	239.1	299.7	289.0	299.7	324.7	435.3	610.1	685.0	991.9	838.5
85°	78.5	78.5	82.1	96.3	117.7	114.2	189.1	299.7	331.8	424.6	314.0
87.5°	14.3	14.3	14.3	14.3	14.3	17.8	39.2	60.7	82.1	146.3	110.6
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°	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8	5187.8
2.5°	5259.1	5227.0	5244.9	5255.6	5252.0	5244.9	5209.2	5202.1	5184.2	5155.7	5148.5
5°	5416.1	5380.5	5384.0	5373.3	5337.6	5291.3	5212.8	5173.5	5141.4	5105.7	5102.2
7.5°	5662.3	5623.1	5612.4	5562.4	5462.5	5355.5	5230.6	5159.2	5105.7	5059.3	5052.2
10°	5976.3	5937.1	5901.4	5783.6	5619.5	5476.8	5312.7	5209.2	5130.7	5073.6	5062.9
12.5°	6326.0	6293.9	6204.7	6033.4	5837.2	5669.5	5501.8	5373.3	5259.1	5173.5	5162.8
15°	6714.9	6643.5	6507.9	6286.7	6101.2	5965.6	5762.2	5587.4	5405.4	5291.3	5266.3
17.5°	6986.0	6925.4	6764.8	6550.7	6404.5	6286.7	6047.7	5797.9	5551.7	5384.0	5348.3
20°	7178.7	7114.5	6932.5	6775.5	6729.1	6629.2	6350.9	6061.9	5776.5	5569.6	5523.2
22.5°	7317.9	7250.1	7064.5	6986.0	7050.3	7032.4	6761.3	6433.0	6094.0	5847.9	5790.8
25°	7449.9	7385.6	7221.5	7250.1	7421.3	7474.8	7182.3	6800.5	6415.2	6126.2	6058.4
27.5°	7574.7	7492.7	7417.8	7574.7	7817.4	7917.3	7606.9	7175.1	6757.7	6461.5	6408.0
30°	7767.4	7671.1	7660.4	7888.7	8274.1	8359.7	8017.2	7585.4	7171.6	6871.9	6804.1
32.5°	8010.0	7920.8	7928.0	8270.5	8716.5	8787.8	8495.3	8092.1	7678.2	7378.5	7285.7
35°	8338.3	8227.7	8288.3	8709.3	9158.9	9290.9	9055.4	8720.1	8316.9	8010.0	7906.6
37.5°	8791.4	8630.9	8755.7	9198.2	9651.3	9847.5	9665.6	9415.8	9016.2	8705.8	8609.4
40°	9369.4	9237.4	9287.4	9776.2	10243.6	10479.0	10364.9	10118.7	9722.6	9398.0	9287.4
42.5°	10054.5	9922.4	9904.6	10425.5	10892.9	11249.7	11139.1	10914.3	10504.0	10133.0	10025.9
45°	10725.2	10603.9	10628.9	11160.5	11685.0	12073.9	11963.3	11699.3	11253.3	10825.1	10739.5
47.5°	11424.6	11324.7	11346.1	11909.8	12487.8	12876.7	12737.6	12416.4	11895.5	11438.8	11335.4
50°	12141.7	12027.5	12059.6	12651.9	13276.3	13643.8	13429.7	12955.2	12380.8	11934.8	11845.6
52.5°	12855.3	12719.7	12801.8	13361.9	14007.7	14300.3	13904.3	13329.8	12773.2	12330.8	12230.9
55°	13675.9	13533.2	13444.0	14043.4	14682.1	14803.4	14261.1	13590.3	12930.2	12427.1	12366.5
57.5°	14425.2	14303.9	14136.2	14735.6	15206.6	15117.4	14535.8	13518.9	12548.5	11902.7	11817.0
60°	15096.0	14992.5	14846.2	15356.4	15570.5	15370.7	14314.6	12673.3	11606.5	10932.2	10892.9
62.5°	15713.2	15602.6	15467.0	15902.3	15873.8	15409.9	13308.4	11374.6	9947.4	9223.1	9158.9
65°	16202.0	16102.1	16062.9	16405.4	16359.0	14642.8	11742.1	9248.1	7267.9	6450.8	6425.9
67.5°	16341.2	16301.9	16512.4	17094.0	16369.7	13101.5	9208.9	6133.3	3903.3	3129.1	3082.7
70°	15820.3	15816.7	16419.7	17251.0	14885.5	10008.1	5434.0	2765.2	1962.4	1741.2	1712.6
72.5°	15142.3	15131.6	15609.7	14881.9	11039.2	5476.8	2287.1	1480.7	1227.4	1166.7	1166.7
75°	14029.2	14000.6	14361.0	11321.1	6208.2	2062.3	1213.1	1016.9	963.3	952.6	952.6
77.5°	11435.3	11196.2	10628.9	6996.7	2165.7	1013.3	802.8	799.2	767.1	763.5	763.5
80°	3760.6	3760.6	4370.7	2668.8	956.2	624.4	567.3	595.8	563.7	542.3	538.8
82.5°	613.7	845.6	1202.4	763.5	517.4	388.9	349.7	371.1	388.9	310.4	310.4
85°	242.6	317.5	463.8	356.8	239.1	157.0	167.7	185.5	164.1	142.7	139.1
87.5°	92.8	114.2	164.1	85.6	50.0	28.5	17.8	17.8	14.3	14.3	14.3
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)