

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: P643688

Luminaire Tested: GWS-SA6F-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-740-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

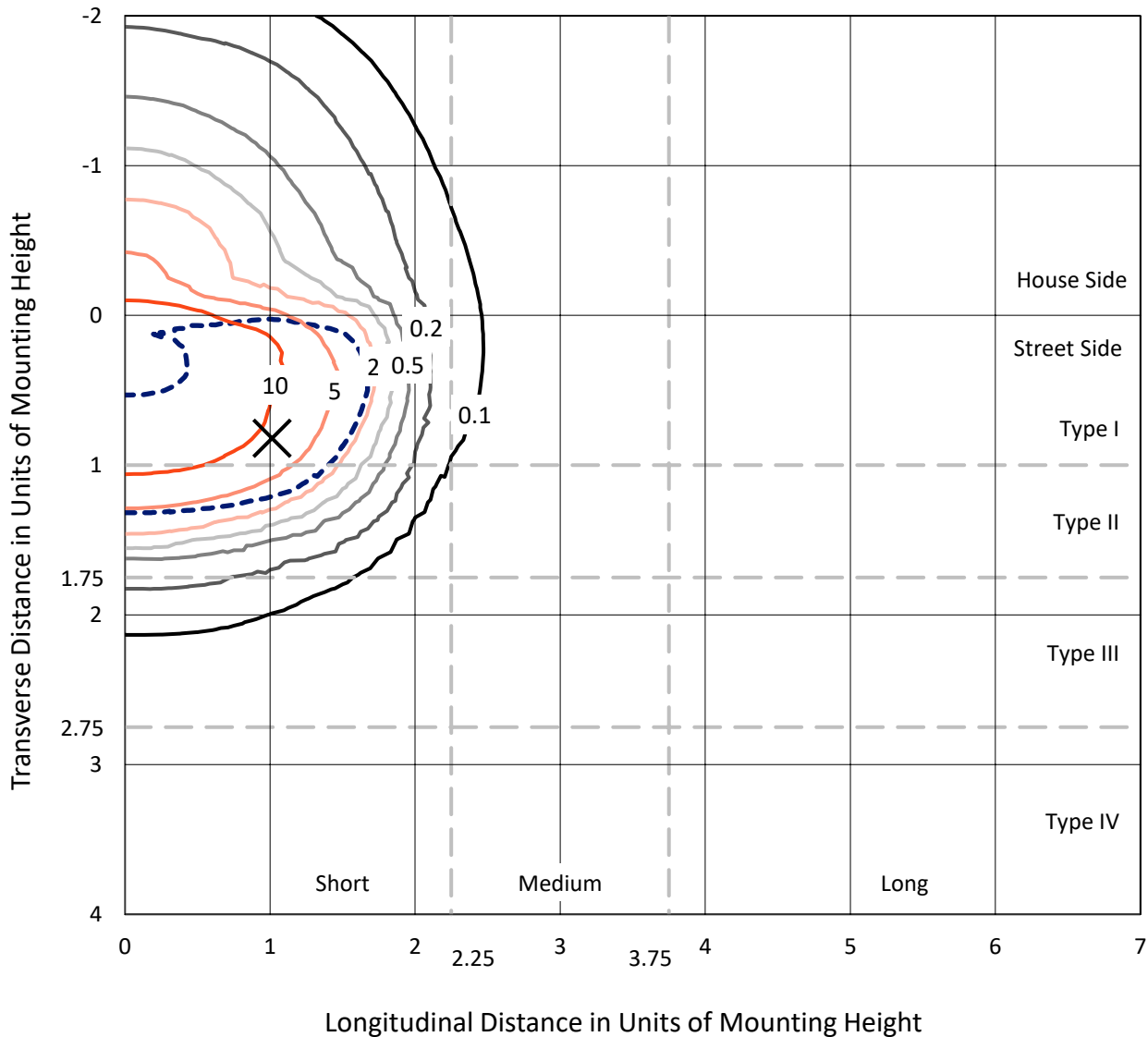
Lumens per Lamp: N/A  
Luminaire Lumens: 45151.4 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

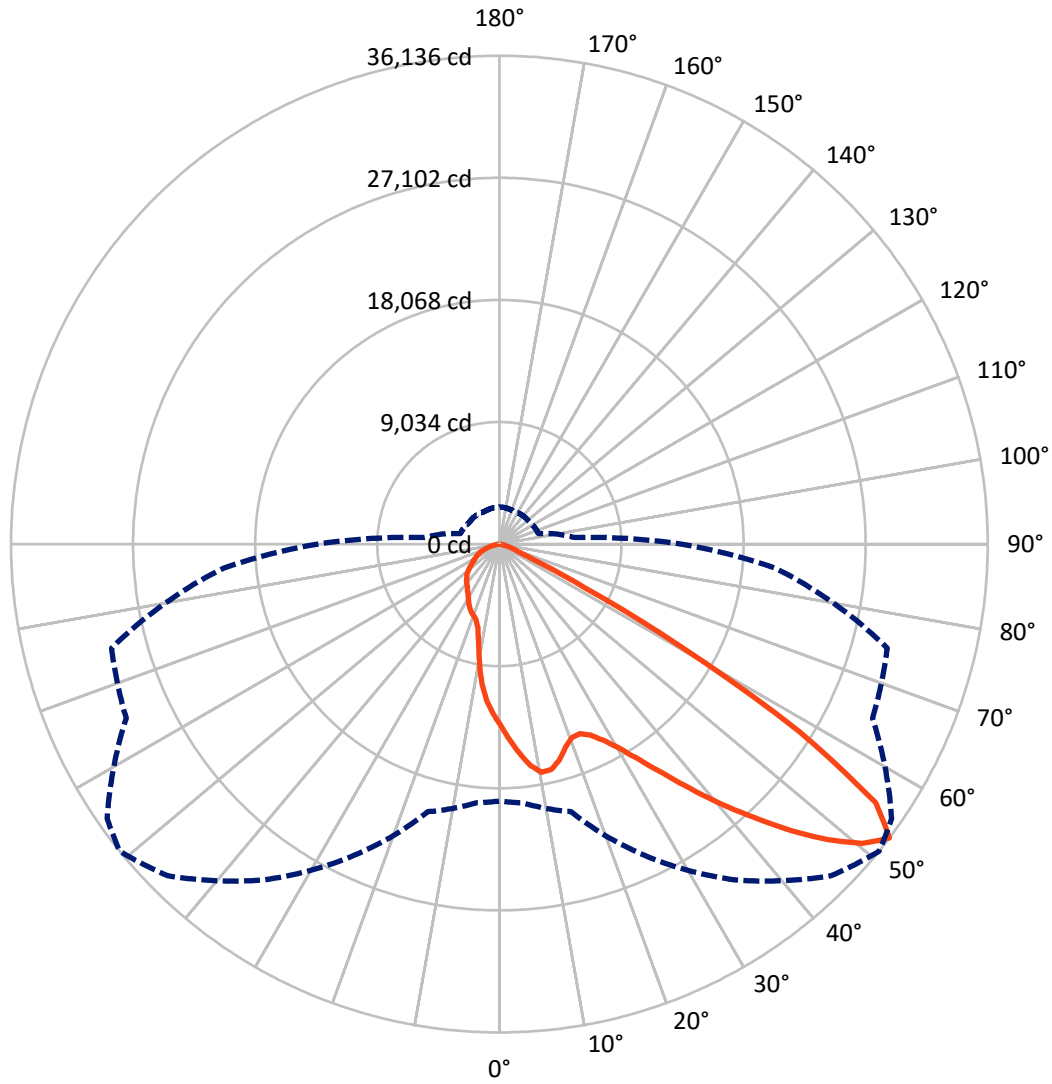
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8797.4	0.0	8797.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	36354.0	0.0	36354.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	45151.4	0.0	45151.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1254.5	2.8
10°-20°	3259.7	7.2
20°-30°	5300.0	11.7
30°-40°	8399.3	18.6
40°-50°	12667.9	28.1
50°-60°	10958.7	24.3
60°-70°	2484.4	5.5
70°-80°	732.6	1.6
80°-90°	94.4	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°	45151.4	100.0
0°-180°	45151.4	100.0

**Coefficient of Utilization**



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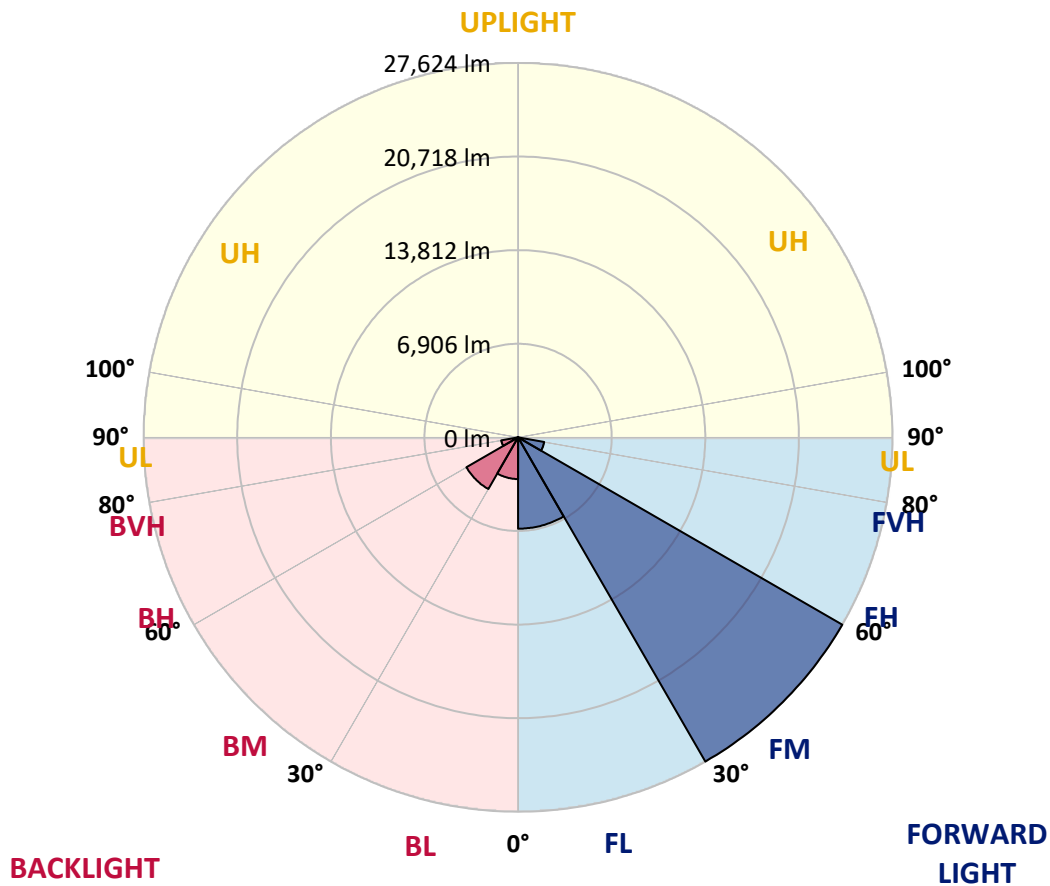
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6739.0	14.9			
FM (30°-60°)	27624.3	61.2			
FH (60°-80°)	1955.2	4.3			G2/5000
FVH (80°-90°)	35.6	0.1			G1/100
BL (0°-30°)	3075.2	6.8	B4/5000		
BM (30°-60°)	4401.6	9.7	B3/5000		
BH (60°-80°)	1261.8	2.8	B3/2500		G3/2500
BVH (80°-90°)	58.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8
2.5°	14981.6	15067.2	14935.2	14885.3	14803.2	14660.5	14496.4	14450.0	14096.7	13864.8	13604.4
5°	16487.2	16533.6	16426.6	16319.5	16116.2	15862.9	15545.3	15477.5	14835.3	14303.7	13750.7
7.5°	16822.6	16804.8	16897.5	16958.2	16933.2	16833.3	16551.5	16419.4	15652.4	14810.3	13993.3
10°	15495.4	15395.5	15738.0	16144.7	16633.5	17197.2	17165.1	17154.4	16487.2	15491.8	14303.7
12.5°	13736.4	13686.4	13964.7	14474.9	15399.0	16647.8	17115.2	17479.1	17240.1	16141.2	14649.8
15°	12730.2	12712.4	12901.5	13269.0	14004.0	15581.0	16580.0	17300.7	17885.9	16836.9	15017.3
17.5°	12548.3	12559.0	12623.2	12833.7	13361.8	14660.5	15816.5	16822.6	18388.9	17600.4	15477.5
20°	13079.9	13151.3	13040.7	13072.8	13358.2	14328.7	15295.6	16341.0	18710.0	18367.5	15973.5
22.5°	14260.9	14235.9	13993.3	13850.6	13854.1	14532.0	15238.5	16116.2	18920.5	19113.2	16423.0
25°	15598.8	15570.3	15281.3	14963.7	14763.9	15085.1	15648.8	16355.2	19109.6	19794.7	16783.4
27.5°	17179.4	17090.2	16769.1	16362.4	15919.9	16059.1	16440.9	17001.0	19402.2	20465.4	17022.4
30°	18710.0	18813.5	18353.2	17871.6	17404.2	17318.6	17539.8	18046.4	19998.0	21250.4	17307.9
32.5°	20740.2	20704.5	20194.3	19566.3	18899.1	18834.9	19009.7	19473.6	21068.4	22335.0	17743.1
35°	23198.4	23205.6	22481.3	21632.1	20683.1	20511.8	20804.4	21253.9	22663.3	23805.0	18431.7
37.5°	25753.1	25742.4	25110.8	24147.5	22852.4	22609.7	22945.1	23280.5	24657.7	25806.6	19502.1
40°	27544.1	27615.5	27319.4	26812.7	25585.4	24993.1	25289.2	25521.1	26827.0	28161.4	20911.4
42.5°	28561.0	28668.0	28732.3	29035.5	28389.7	27758.2	27651.2	27772.5	28764.4	30348.5	22235.1
45°	28778.6	28921.3	29388.7	30512.6	30762.4	30584.0	30234.3	29941.8	30209.4	31900.5	23102.1
47.5°	27818.9	28068.6	29067.6	31033.5	32492.8	33053.0	32664.1	32218.1	31044.2	32300.1	23012.9
50°	24015.5	24308.1	26559.4	29970.3	32739.0	34779.8	34815.5	34155.4	30944.3	31147.7	21892.6
52.5°	19013.3	19213.1	20501.1	25407.0	30323.5	34708.5	36135.6	35429.2	30462.7	29706.3	20490.4
55°	11363.7	11684.9	12887.2	16762.0	23623.0	30762.4	33802.2	34144.7	30227.2	28496.8	19534.2
57.5°	3835.5	3992.5	5141.3	7403.4	13921.9	22524.1	26117.0	27508.5	27440.7	26648.6	17668.2
60°	1826.8	1862.4	2094.4	2807.9	5573.1	11770.5	15459.7	17065.2	18528.1	18674.4	10992.7
62.5°	1391.5	1412.9	1530.6	1684.0	2240.6	4959.4	7085.8	8313.2	8880.5	7621.0	4003.2
65°	1163.1	1181.0	1270.2	1366.5	1523.5	2147.9	2718.7	3136.2	2825.8	2201.4	1908.8
67.5°	970.5	984.7	1052.5	1156.0	1263.0	1437.9	1509.2	1552.0	1627.0	1826.8	1755.4
70°	760.0	774.2	845.6	934.8	1038.3	1081.1	1148.9	1191.7	1341.5	1598.4	1591.3
72.5°	585.1	603.0	642.2	699.3	784.9	827.8	902.7	952.6	1038.3	1245.2	1330.8
75°	428.1	438.9	474.5	492.4	503.1	492.4	567.3	624.4	738.6	817.0	838.5
77.5°	174.8	196.2	189.1	189.1	224.8	271.2	310.4	346.1	424.6	471.0	474.5
80°	71.4	78.5	92.8	103.5	124.9	160.6	185.5	199.8	235.5	264.0	285.4
82.5°	42.8	46.4	53.5	57.1	71.4	92.8	107.0	117.7	146.3	174.8	185.5
85°	21.4	21.4	25.0	28.5	35.7	42.8	50.0	57.1	74.9	92.8	103.5
87.5°	3.6	3.6	3.6	7.1	10.7	14.3	17.8	21.4	25.0	28.5	35.7
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°	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8	13443.8
2.5°	13451.0	13258.3	13033.5	12855.1	12648.2	12494.8	12277.1	12141.5	12013.1	11906.1	11827.6
5°	13465.2	13140.6	12673.2	12259.3	11831.1	11424.4	11007.0	10668.0	10364.7	10111.4	10090.0
7.5°	13547.3	13079.9	12348.5	11624.2	10789.3	9983.0	9176.6	8520.1	8020.6	7760.2	7706.7
10°	13686.4	13072.8	12016.7	10860.7	9437.1	8138.4	7182.2	6682.7	6393.7	6290.2	6254.5
12.5°	13832.7	13054.9	11592.1	9783.2	7806.6	6668.4	6143.9	6083.3	6136.8	6143.9	6140.3
15°	14011.1	13044.2	11056.9	8520.1	6614.9	5986.9	6022.6	6151.0	6275.9	6304.5	6304.5
17.5°	14228.8	13019.2	10329.1	7285.6	5869.2	5854.9	6044.0	6215.3	6333.0	6354.4	6354.4
20°	14457.1	12955.0	9433.5	6279.5	5565.9	5772.9	5976.2	6108.2	6190.3	6218.8	6222.4
22.5°	14614.1	12783.8	8402.4	5533.8	5376.8	5615.9	5762.1	5897.7	5897.7	5826.4	5805.0
25°	14646.2	12416.3	7285.6	5023.6	5152.0	5373.2	5523.1	5444.6	5298.3	5241.2	5237.7
27.5°	14528.5	11881.1	6183.2	4659.7	4880.9	5102.1	5077.1	4962.9	4898.7	4841.6	4863.0
30°	14385.7	11238.9	5227.0	4360.0	4566.9	4784.5	4698.9	4659.7	4613.3	4549.1	4563.3
32.5°	14289.4	10521.7	4492.0	4128.1	4356.4	4392.1	4452.7	4449.2	4406.3	4285.0	4277.9
35°	14318.0	9797.4	3999.6	3939.0	4181.6	4167.3	4281.5	4260.1	3963.9	3796.2	3785.5
37.5°	14546.3	9101.7	3710.6	3789.1	3903.3	3992.5	4092.4	3835.5	3732.0	3625.0	3632.1
40°	14981.6	8455.9	3553.6	3707.0	3735.6	3867.6	3635.7	3632.1	3585.7	3489.4	3485.8
42.5°	15474.0	7910.0	3446.6	3667.8	3628.5	3653.5	3407.3	3435.9	3432.3	3371.7	3353.8
45°	15773.7	7406.9	3361.0	3521.5	3532.2	3282.5	3207.5	3239.6	3257.5	3225.4	3221.8
47.5°	15463.3	6828.9	3271.8	3296.7	3389.5	3114.8	3022.0	3025.6	3057.7	3061.3	3047.0
50°	14592.7	6183.2	3164.7	3104.1	3043.4	2939.9	2854.3	2836.5	2868.6	2900.7	2911.4
52.5°	13468.8	5565.9	2986.3	2893.6	2750.8	2750.8	2711.6	2654.5	2697.3	2740.1	2754.4
55°	12644.6	5109.2	2733.0	2629.5	2472.6	2526.1	2518.9	2469.0	2526.1	2558.2	2568.9
57.5°	10957.0	4106.6	2404.8	2372.6	2240.6	2304.9	2319.1	2254.9	2226.4	2233.5	2244.2
60°	6504.3	2650.9	2169.3	2165.7	2048.0	2122.9	2165.7	2101.5	2015.9	2026.6	2040.8
62.5°	2918.5	2026.6	1873.1	1858.9	1855.3	1951.6	1998.0	1937.4	1816.1	1826.8	1841.0
65°	1837.5	1751.8	1627.0	1627.0	1684.0	1766.1	1801.8	1751.8	1612.7	1594.8	1609.1
67.5°	1705.5	1630.5	1502.1	1477.1	1505.7	1573.4	1577.0	1480.7	1398.6	1384.3	1384.3
70°	1530.6	1473.5	1348.7	1298.7	1288.0	1284.4	1273.7	1248.8	1195.2	1181.0	1188.1
72.5°	1266.6	1227.4	1148.9	1095.3	1066.8	1063.2	1020.4	999.0	952.6	945.5	941.9
75°	838.5	849.2	849.2	842.0	817.0	806.3	760.0	738.6	685.0	663.6	660.1
77.5°	495.9	506.6	520.9	524.5	520.9	520.9	478.1	453.1	399.6	371.1	363.9
80°	303.3	310.4	317.5	328.2	314.0	303.3	264.0	239.0	214.1	196.2	192.7
82.5°	196.2	203.4	206.9	214.1	206.9	192.7	160.6	146.3	128.4	114.2	110.6
85°	110.6	114.2	121.3	121.3	110.6	99.9	82.1	71.4	60.7	53.5	53.5
87.5°	39.2	39.2	39.2	42.8	35.7	32.1	21.4	14.3	10.7	10.7	10.7
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)