

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: P643822

Luminaire Tested: GWS-SA6F-760-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-760-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

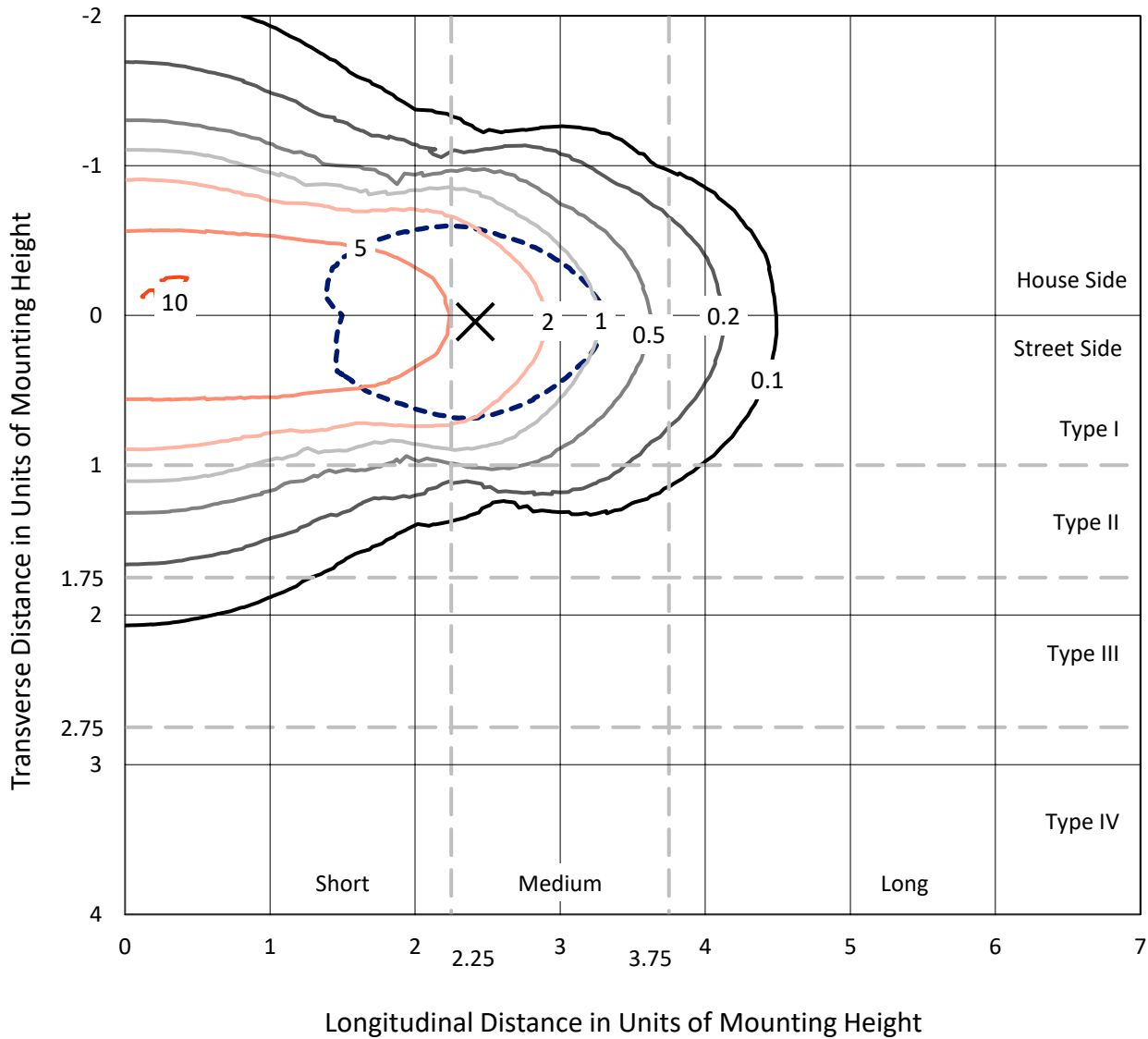
Lumens per Lamp: N/A  
Luminaire Lumens: 50121 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

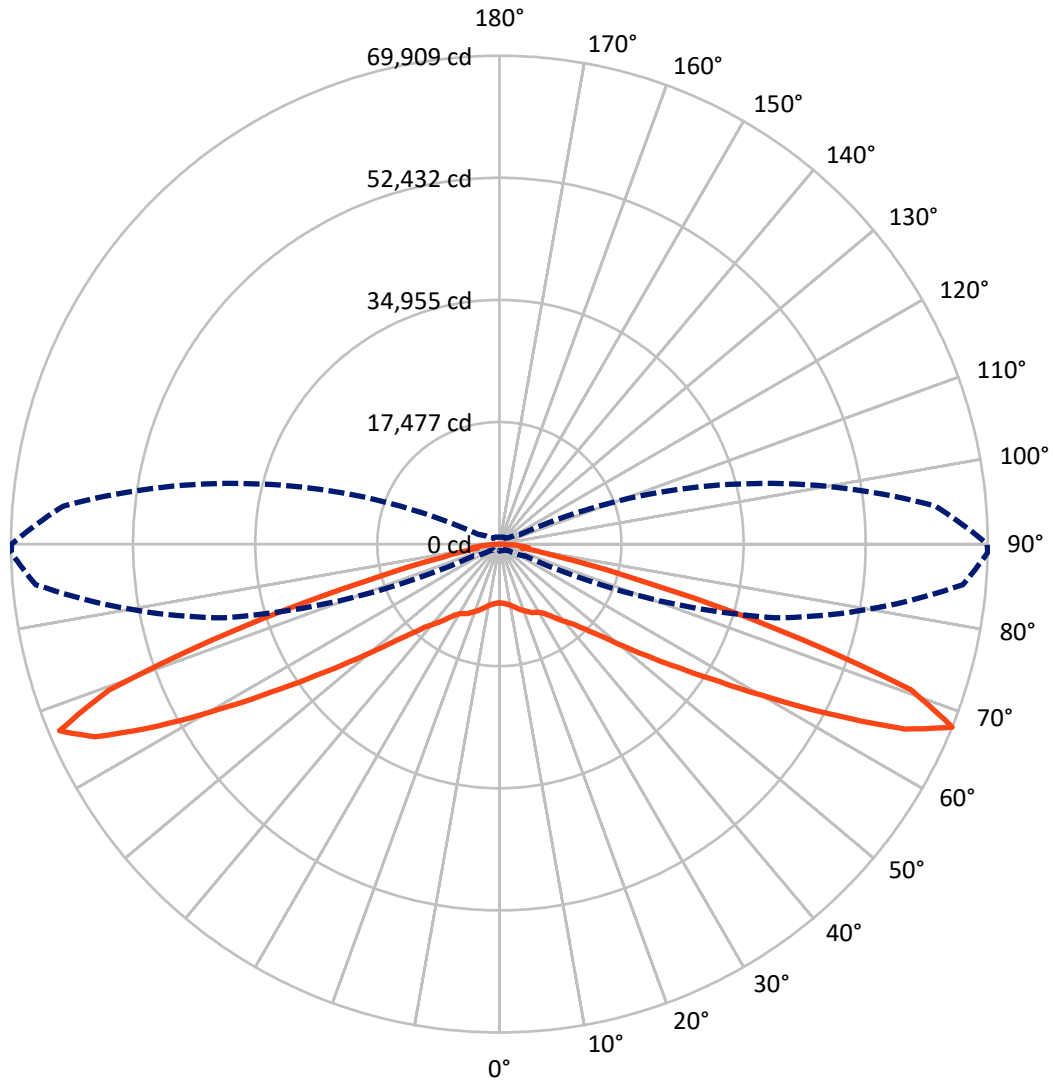
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type I - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24840.9	0.0	24840.9
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	25280.1	0.0	25280.1
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	50121.0	0.0	50121.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	843.8	1.7
10°-20°	2747.6	5.5
20°-30°	4644.8	9.3
30°-40°	6374.3	12.7
40°-50°	8128.7	16.2
50°-60°	10198.7	20.3
60°-70°	12300.5	24.5
70°-80°	4449.9	8.9
80°-90°	432.8	0.9
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°	50121.0	100.0
0°-180°	50121.0	100.0

**Coefficient of Utilization**



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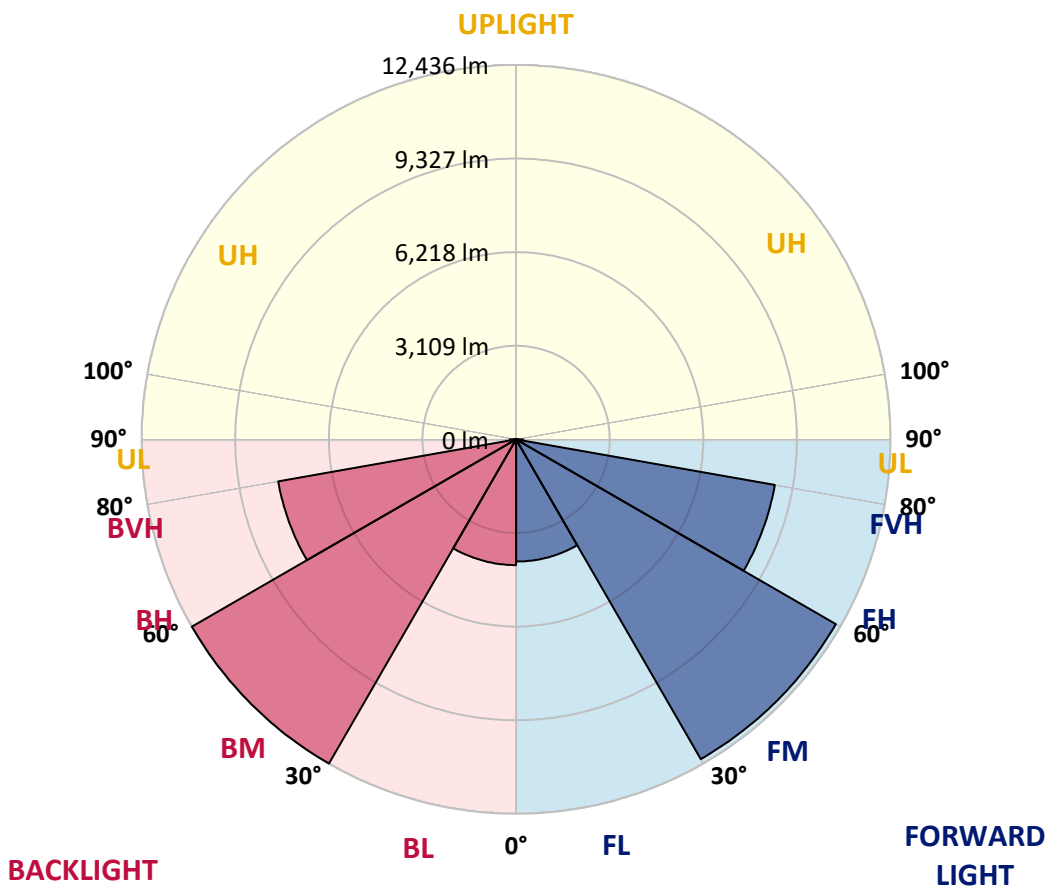
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4059.4	8.1			
FM (30°-60°)	12265.6	24.5			
FH (60°-80°)	8726.8	17.4			G4/12000
FVH (80°-90°)	228.3	0.5			G3/500
BL (0°-30°)	4176.8	8.3	B4/5000		
BM (30°-60°)	12436.1	24.8	B5		
BH (60°-80°)	8023.6	16.0	B5		G5
BVH (80°-90°)	204.4	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 I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4
2.5°	8437.6	8430.4	8412.4	8466.4	8455.6	8459.2	8480.8	8466.4	8441.2	8398.0	8459.2
5°	8675.2	8671.6	8632.0	8664.4	8628.4	8603.2	8599.6	8563.6	8534.8	8488.0	8552.8
7.5°	8905.6	8902.0	8869.6	8927.2	8898.4	8869.6	8837.2	8765.2	8696.8	8628.4	8700.4
10°	9081.9	9078.3	9071.1	9153.9	9161.1	9171.9	9157.5	9035.1	8916.4	8833.6	8905.6
12.5°	9182.7	9193.5	9211.5	9362.7	9438.3	9510.3	9528.3	9427.5	9229.5	9110.7	9197.1
15°	9114.3	9135.9	9225.9	9499.5	9708.3	9870.3	9938.7	9855.9	9600.3	9402.3	9499.5
17.5°	8786.8	8804.8	8981.2	9398.7	9859.5	10233.8	10345.4	10295.0	10010.7	9769.5	9863.1
20°	8333.2	8372.8	8563.6	9146.7	9834.3	10485.8	10784.6	10766.6	10457.0	10086.2	10197.8
22.5°	7922.9	7969.6	8171.2	8815.6	9665.1	10550.6	11227.3	11274.1	10863.8	10403.0	10493.0
25°	7462.1	7505.3	7764.5	8423.2	9373.5	10500.2	11605.3	11817.7	11324.5	10766.6	10849.4
27.5°	6990.5	7022.9	7278.5	7980.4	8992.0	10406.6	11904.1	12415.2	11778.1	11018.6	11076.2
30°	6576.6	6619.8	6853.8	7537.7	8574.4	10219.4	12148.9	13052.4	12300.0	11302.9	11349.7
32.5°	6177.0	6213.0	6468.6	7102.1	8131.6	9931.5	12368.4	13801.1	13074.0	11832.1	11832.1
35°	5673.1	5737.9	6025.8	6684.6	7714.1	9549.9	12526.8	14672.2	14132.3	12613.2	12616.8
37.5°	5208.7	5244.7	5547.1	6213.0	7274.9	9117.9	12541.2	15575.7	15471.3	13606.7	13613.9
40°	4679.6	4726.4	5050.3	5709.1	6771.0	8664.4	12404.4	16418.1	16875.2	14629.0	14589.4
42.5°	4143.2	4211.6	4521.2	5165.5	6227.4	8110.0	12040.9	17220.8	18657.0	15813.3	15716.1
45°	3624.9	3668.1	3977.6	4586.0	5604.7	7447.7	11457.7	17991.1	20773.6	17613.1	17472.8
47.5°	3041.7	3059.7	3380.1	3963.2	4960.3	6709.8	10622.6	18678.6	23099.0	19996.1	19754.9
50°	2523.4	2548.6	2800.5	3300.9	4172.0	5835.0	9582.3	19081.8	26061.5	23246.6	22829.0
52.5°	2041.0	2066.2	2267.8	2667.3	3448.5	4837.9	8293.6	18988.2	29067.3	27281.8	26673.5
55°	1648.6	1666.6	1803.4	2116.6	2714.1	3848.0	6771.0	18149.5	32404.1	32551.7	31241.5
57.5°	1393.1	1400.3	1493.9	1684.6	2120.2	2966.1	5226.7	16169.7	35903.0	39275.9	37123.3
60°	1245.5	1249.1	1292.3	1411.1	1673.8	2264.2	3830.0	13016.4	39527.9	47688.3	44736.6
62.5°	1151.9	1151.9	1187.9	1256.3	1389.5	1742.2	2814.9	9348.3	42130.4	56842.2	53908.5
65°	1061.9	1061.9	1087.1	1144.7	1216.7	1421.9	2113.0	6029.4	43408.3	64495.1	63843.6
67.5°	946.7	950.3	968.3	1029.5	1094.3	1187.9	1601.8	4078.4	40755.4	66611.7	69909.0
70°	838.7	842.3	867.5	907.1	961.1	1025.9	1252.7	2811.3	29664.8	55478.0	62508.1
72.5°	719.9	734.3	752.3	795.5	827.9	874.7	1022.3	1821.4	17260.4	35687.0	41320.5
75°	590.3	608.3	629.9	673.1	694.7	712.7	842.3	1299.5	8304.4	18084.7	20593.7
77.5°	457.2	475.2	500.4	539.9	554.3	575.9	644.3	939.5	3977.6	8016.4	8642.8
80°	306.0	313.2	334.8	381.6	406.8	421.2	475.2	640.7	1727.8	3218.1	3189.3
82.5°	187.2	190.8	198.0	226.8	237.6	252.0	309.6	392.4	824.3	3657.3	4193.6
85°	68.4	64.8	61.2	79.2	93.6	108.0	144.0	198.0	360.0	2512.6	2811.3
87.5°	0.0	0.0	0.0	3.6	7.2	7.2	14.4	28.8	86.4	939.5	644.3
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°	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4	8412.4
2.5°	8441.2	8401.6	8452.0	8488.0	8567.2	8596.0	8603.2	8578.0	8578.0	8534.8	8542.0
5°	8538.4	8513.2	8596.0	8657.2	8772.4	8815.6	8844.4	8826.4	8837.2	8808.4	8815.6
7.5°	8686.0	8664.4	8808.4	8927.2	9045.9	9096.3	9121.5	9107.1	9110.7	9074.7	9085.5
10°	8891.2	8898.4	9071.1	9225.9	9384.3	9434.7	9445.5	9402.3	9366.3	9301.5	9305.1
12.5°	9171.9	9207.9	9452.7	9625.5	9787.5	9859.5	9780.3	9621.9	9474.3	9362.7	9348.3
15°	9477.9	9542.7	9895.5	10115.0	10291.4	10255.4	10021.5	9665.1	9373.5	9207.9	9175.5
17.5°	9845.1	9942.3	10385.0	10647.8	10799.0	10568.6	10079.0	9546.3	9139.5	8916.4	8873.2
20°	10190.6	10345.4	10903.4	11245.3	11263.3	10745.0	10053.9	9305.1	8794.0	8520.4	8462.8
22.5°	10507.4	10705.4	11446.9	11882.5	11648.5	10824.2	9899.1	8963.2	8376.4	8056.0	8005.6
25°	10853.0	11133.7	12080.5	12487.2	12033.7	10791.8	9575.1	8538.4	7872.5	7544.9	7508.9
27.5°	11090.6	11443.3	12717.6	13106.4	12350.4	10608.2	9157.5	8074.0	7411.7	7102.1	7051.7
30°	11364.1	11814.1	13419.5	13779.5	12544.8	10338.2	8711.2	7642.1	6983.3	6648.6	6612.6
32.5°	11860.9	12426.0	14290.7	14492.2	12606.0	10003.5	8282.8	7224.5	6537.0	6202.2	6151.8
35°	12660.0	13322.3	15514.5	15287.8	12559.2	9636.3	7876.1	6735.0	6079.8	5766.7	5716.3
37.5°	13667.9	14492.2	16878.8	16004.1	12429.6	9233.1	7393.7	6324.6	5669.5	5352.7	5323.9
40°	14607.4	15622.5	18408.7	16623.2	12166.9	8736.4	6929.3	5896.2	5226.7	4891.9	4827.1
42.5°	15784.5	17134.4	20179.7	17159.6	11734.9	8142.4	6407.4	5367.1	4672.4	4370.0	4290.8
45°	17573.5	19251.0	22238.7	17674.3	11090.6	7411.7	5752.3	4722.8	4064.0	3754.4	3693.3
47.5°	19805.3	21896.7	24470.5	17980.3	10111.4	6641.4	5010.7	4042.4	3383.7	3034.5	3005.7
50°	22940.6	25744.8	26864.3	17926.3	9017.1	5727.1	4175.6	3232.5	2681.7	2429.8	2390.2
52.5°	26759.9	30575.5	29452.4	17278.4	7854.5	4686.8	3254.1	2537.8	2127.4	1947.4	1915.0
55°	31551.0	36360.2	32177.4	15888.9	6385.8	3588.9	2555.8	2001.4	1720.6	1612.6	1598.2
57.5°	37483.3	43851.1	34801.5	13549.1	4801.9	2739.3	1969.0	1652.2	1519.1	1454.3	1450.7
60°	45312.5	51802.7	37080.1	10529.0	3437.7	2095.0	1627.0	1475.9	1371.5	1328.3	1324.7
62.5°	54621.2	59023.6	38498.4	7170.5	2584.6	1670.2	1432.7	1339.1	1277.9	1252.7	1249.1
65°	64189.1	63588.0	37821.6	4697.6	1961.8	1418.3	1285.1	1234.7	1180.7	1155.5	1155.5
67.5°	69840.6	62623.3	32627.3	3261.3	1555.1	1245.5	1159.1	1112.3	1022.3	1000.7	1000.7
70°	61860.2	50744.4	21385.6	2386.6	1259.9	1090.7	1007.9	943.1	907.1	885.5	881.9
72.5°	40913.7	33019.7	11371.3	1655.8	1051.1	928.7	853.1	827.9	784.7	763.1	759.5
75°	20363.3	17343.2	5827.9	1195.1	874.7	745.1	712.7	701.9	665.9	637.1	629.9
77.5°	8488.0	7721.3	2717.7	867.5	665.9	601.1	572.3	572.3	532.7	500.4	486.0
80°	3200.1	2850.9	1285.1	593.9	493.2	446.4	428.4	414.0	381.6	342.0	320.4
82.5°	4280.0	2796.9	629.9	370.8	324.0	288.0	262.8	252.0	234.0	216.0	201.6
85°	2771.7	1987.0	284.4	190.8	162.0	122.4	108.0	100.8	90.0	79.2	72.0
87.5°	565.1	665.9	86.4	36.0	21.6	10.8	10.8	3.6	0.0	0.0	0.0
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)