

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: P643842

Luminaire Tested: GWS-SA6F-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643842  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (96) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49782.7 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - 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

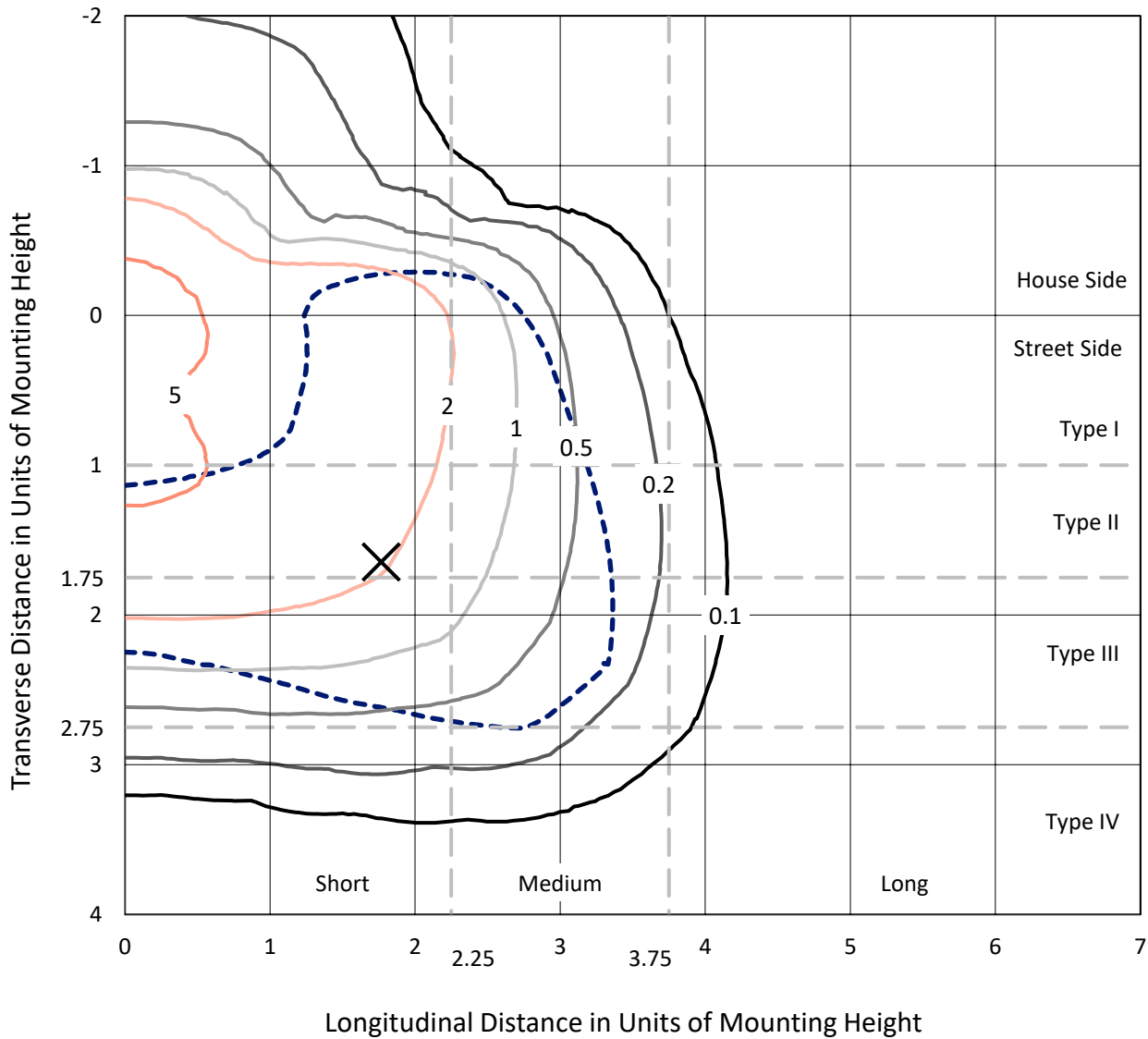


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### Iso-Footcandle Lines of Horizontal Illumination

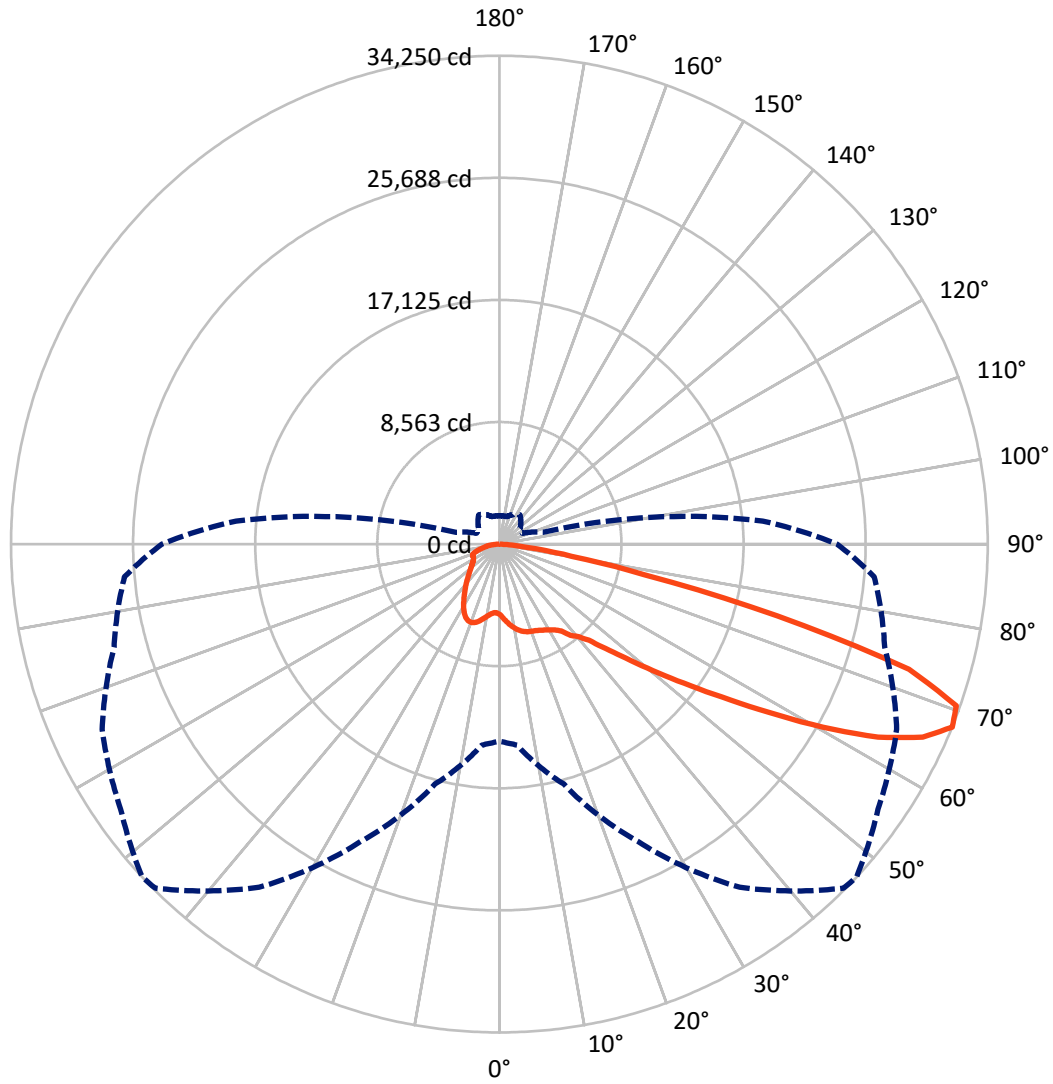
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11345.9	0.0	11345.9
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	38436.8	0.0	38436.8
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	49782.7	0.0	49782.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.4	1.0
10°-20°	1680.4	3.4
20°-30°	2856.2	5.7
30°-40°	4184.0	8.4
40°-50°	6374.8	12.8
50°-60°	11405.9	22.9
60°-70°	15220.0	30.6
70°-80°	6882.8	13.8
80°-90°	674.3	1.4
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°	49782.7	100.0
0°-180°	49782.7	100.0

**Coefficient of Utilization**



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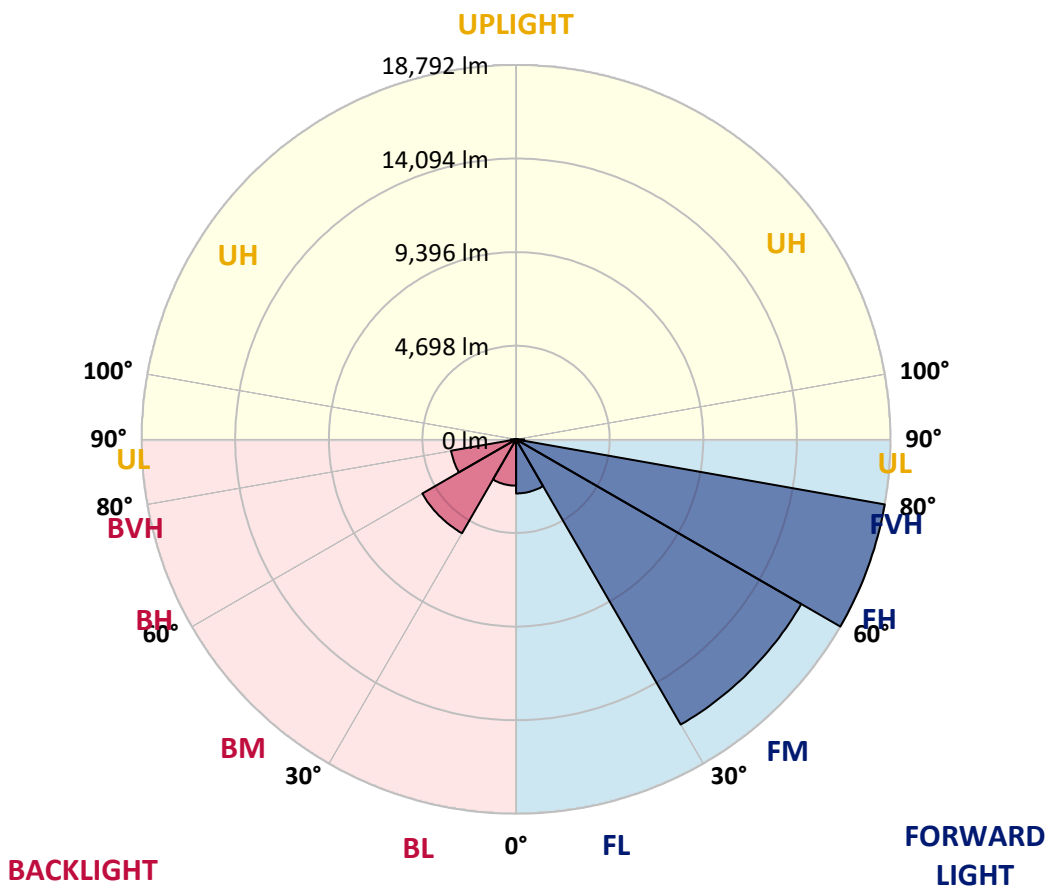
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2715.0	5.5			
FM (30°-60°)	16528.4	33.2			
FH (60°-80°)	18792.4	37.7			G5
FVH (80°-90°)	401.1	0.8			G3/500
BL (0°-30°)	2325.9	4.7	B3/2500		
BM (30°-60°)	5436.3	10.9	B4/8500		
BH (60°-80°)	3310.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	273.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0
2.5°	5262.6	5280.6	5277.0	5248.2	5230.2	5197.8	5201.4	5151.0	5075.4	5025.0	4967.4
5°	5727.0	5755.7	5719.8	5673.0	5601.0	5496.6	5485.8	5370.6	5226.6	5125.8	5021.4
7.5°	6130.1	6148.1	6104.9	6025.7	5921.3	5780.9	5755.7	5619.0	5439.0	5280.6	5129.4
10°	6443.3	6464.9	6407.3	6302.9	6166.1	6025.7	6007.7	5867.3	5676.6	5489.4	5298.6
12.5°	6709.6	6716.8	6655.6	6515.3	6367.7	6223.7	6205.7	6076.1	5899.7	5709.0	5500.2
15°	6864.4	6868.0	6792.4	6637.6	6497.3	6371.3	6360.5	6248.9	6086.9	5906.9	5683.8
17.5°	6853.6	6860.8	6806.8	6670.0	6547.7	6472.1	6461.3	6389.3	6263.3	6101.3	5878.1
20°	6720.4	6727.6	6691.6	6601.7	6536.9	6515.3	6518.9	6497.3	6421.7	6288.5	6061.7
22.5°	6616.1	6626.8	6594.5	6529.7	6522.5	6572.9	6583.7	6594.5	6558.5	6439.7	6220.1
25°	6666.4	6684.4	6634.0	6544.1	6558.5	6670.0	6691.6	6727.6	6698.8	6598.1	6407.3
27.5°	7015.6	7026.4	6896.8	6713.2	6670.0	6788.8	6821.2	6878.8	6857.2	6763.6	6616.1
30°	7825.5	7818.3	7541.1	7091.2	6911.2	6958.0	6983.2	7066.0	7073.2	7012.0	6871.6
32.5°	8966.6	8930.6	8502.2	7785.9	7264.0	7148.8	7177.6	7289.2	7372.0	7307.2	7116.4
35°	10172.4	10140.1	9668.5	8829.8	7915.5	7515.9	7483.6	7569.9	7695.9	7515.9	7242.4
37.5°	11320.7	11270.3	10788.0	9751.3	8718.2	8160.3	8113.5	8027.1	7951.5	7605.9	7397.2
40°	12595.0	12537.4	12116.2	10942.8	9603.7	8653.4	8534.6	8192.7	8124.3	7904.7	7800.3
42.5°	13955.6	13955.6	13606.5	12451.0	10672.8	9358.9	9204.2	8689.4	8761.4	8617.4	8495.0
45°	15316.3	15355.9	15078.7	13970.0	12101.8	10690.8	10442.4	9711.7	9884.5	9819.7	9758.5
47.5°	16475.3	16550.9	16496.9	15521.4	13851.2	12310.6	11932.6	11173.1	11543.9	11698.7	11871.5
50°	17724.4	17807.2	17753.2	17368.0	15899.4	14272.4	13934.0	13149.3	13786.4	14250.8	14815.9
52.5°	19578.2	19697.0	19247.0	19099.4	18386.7	16500.5	16198.2	15305.5	16460.9	17231.2	18491.1
55°	21144.0	21140.4	20982.0	21320.4	21057.6	19225.4	18890.7	18080.8	19556.6	20373.7	22216.7
57.5°	21871.1	21957.5	22501.1	23458.5	23984.1	22555.0	22234.7	21406.8	22879.0	23303.8	25294.3
60°	22245.5	22353.5	23404.5	25297.9	26712.6	26190.6	26064.6	25010.0	25837.9	25787.5	27889.6
62.5°	21719.9	21935.9	23624.1	26140.2	28660.0	29844.2	29804.6	28210.0	28354.0	27860.8	29498.7
65°	19308.2	19542.2	22191.5	25719.1	29772.2	32623.1	32633.9	31107.7	30287.0	28868.7	29228.7
67.5°	13808.0	14142.8	17418.4	23012.2	29379.9	34124.1	34250.1	32421.5	30740.5	27976.0	26392.2
70°	7526.7	7771.5	10338.0	16727.3	25845.1	33764.2	33998.1	31788.0	28739.1	24200.1	20316.1
72.5°	3419.6	3498.8	4809.1	9179.0	17656.0	29063.1	30042.2	28368.4	23602.5	17875.6	12918.9
75°	1565.8	1601.8	2095.0	4391.5	9225.8	19448.6	20136.1	21129.6	16424.9	11288.3	6734.8
77.5°	982.7	993.5	1191.5	2008.6	4600.3	9708.1	10431.6	12580.6	9618.1	5586.6	2814.9
80°	579.5	590.3	741.5	1087.1	2159.8	4441.9	5129.4	4974.6	4521.1	2411.7	1281.5
82.5°	291.6	302.4	428.4	619.1	1177.1	1767.4	2080.6	2091.4	1684.6	1306.7	723.5
85°	104.4	108.0	140.4	244.8	500.3	583.1	651.5	795.5	824.3	759.5	349.2
87.5°	0.0	0.0	3.6	7.2	14.4	57.6	61.2	115.2	241.2	270.0	140.4
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°	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0	4935.0
2.5°	4949.4	4895.4	4877.4	4859.4	4830.7	4819.9	4798.3	4776.7	4776.7	4755.1	4744.3
5°	4974.6	4902.6	4855.8	4834.3	4816.3	4827.1	4827.1	4834.3	4859.4	4845.1	4852.3
7.5°	5064.6	4981.8	4917.0	4899.0	4899.0	4942.2	4971.0	5007.0	5053.8	5061.0	5061.0
10°	5223.0	5125.8	5057.4	5046.6	5064.6	5125.8	5169.0	5212.2	5269.8	5273.4	5280.6
12.5°	5395.8	5298.6	5230.2	5244.6	5262.6	5341.8	5388.6	5424.6	5482.2	5482.2	5478.6
15°	5575.8	5467.8	5410.2	5439.0	5493.0	5583.0	5590.2	5593.8	5622.6	5615.4	5611.8
17.5°	5762.9	5647.8	5604.6	5647.8	5705.4	5748.5	5712.6	5662.2	5651.4	5637.0	5629.8
20°	5946.5	5827.7	5809.7	5842.1	5860.1	5824.1	5712.6	5619.0	5575.8	5554.2	5547.0
22.5°	6104.9	6004.1	5993.3	5993.3	5903.3	5777.3	5611.8	5485.8	5428.2	5399.4	5392.2
25°	6292.1	6198.5	6180.5	6083.3	5852.9	5622.6	5399.4	5284.2	5237.4	5223.0	5226.6
27.5°	6511.7	6446.9	6389.3	6112.1	5709.0	5349.0	5097.0	5046.6	5028.6	5046.6	5057.4
30°	6781.6	6716.8	6587.3	6076.1	5478.6	4992.6	4751.5	4747.9	4801.9	4848.7	4855.8
32.5°	7001.2	6972.4	6760.0	5960.9	5154.6	4600.3	4395.1	4409.5	4506.7	4571.5	4582.3
35°	7174.0	7220.8	6904.0	5770.1	4769.5	4229.5	4067.5	4074.7	4128.7	4218.7	4222.3
37.5°	7418.8	7577.1	7033.6	5478.6	4326.7	3909.2	3761.6	3707.6	3700.4	3725.6	3732.8
40°	7911.9	8149.5	7127.2	5053.8	3898.4	3621.2	3455.6	3351.2	3261.2	3192.8	3171.2
42.5°	8657.0	8930.6	7181.2	4539.1	3516.8	3336.8	3149.6	3016.5	2858.1	2714.1	2663.7
45°	10024.9	10114.9	7181.2	3991.9	3178.4	3070.5	2883.3	2724.9	2523.3	2354.1	2318.1
47.5°	12213.4	11925.4	7188.4	3462.8	2879.7	2836.5	2674.5	2494.5	2271.3	2131.0	2109.4
50°	15510.6	14499.2	7336.0	3023.7	2631.3	2638.5	2519.7	2321.7	2120.2	2015.8	1997.8
52.5°	19247.0	17670.4	7731.9	2699.7	2422.5	2476.5	2411.7	2220.9	2041.0	1951.0	1933.0
55°	22760.2	20586.1	8070.3	2469.3	2246.1	2339.7	2336.1	2159.8	1997.8	1907.8	1897.0
57.5°	25747.9	22583.8	8019.9	2282.1	2095.0	2213.7	2267.7	2120.2	1969.0	1893.4	1882.6
60°	27605.3	23642.1	7303.6	2109.4	1979.8	2123.8	2228.1	2109.4	1983.4	1965.4	1969.0
62.5°	28411.6	23447.7	5928.5	1979.8	1904.2	2080.6	2271.3	2185.0	2116.6	2159.8	2185.0
65°	27158.9	21777.5	4362.7	1882.6	1832.2	2091.4	2372.1	2303.7	2116.6	2145.4	2156.2
67.5°	23681.7	18537.9	3153.2	1785.4	1742.2	2123.8	2516.1	2285.7	1994.2	1994.2	1972.6
70°	17065.7	13332.9	2289.3	1688.2	1652.2	2077.0	2523.3	2163.4	1853.8	1843.0	1789.0
72.5°	10269.6	7865.1	1785.4	1580.2	1515.4	1843.0	2364.9	2019.4	1717.0	1627.0	1562.2
75°	5334.6	3941.6	1497.4	1461.4	1299.5	1562.2	2163.4	1796.2	1468.6	1389.4	1353.4
77.5°	2285.7	1843.0	1285.1	1303.1	1079.9	1313.9	1745.8	1555.0	1303.1	1202.3	1169.9
80°	1126.7	1047.5	1015.1	1043.9	863.9	1015.1	1504.6	1360.6	1105.1	989.9	943.1
82.5°	644.3	611.9	730.7	741.5	615.5	849.5	1270.7	1151.9	914.3	788.3	712.7
85°	298.8	320.4	442.7	446.3	381.6	583.1	831.5	647.9	485.9	403.2	385.2
87.5°	118.8	140.4	194.4	190.8	111.6	108.0	72.0	39.6	32.4	28.8	25.2
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)