

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: P643510

Luminaire Tested: GWS-SA6F-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

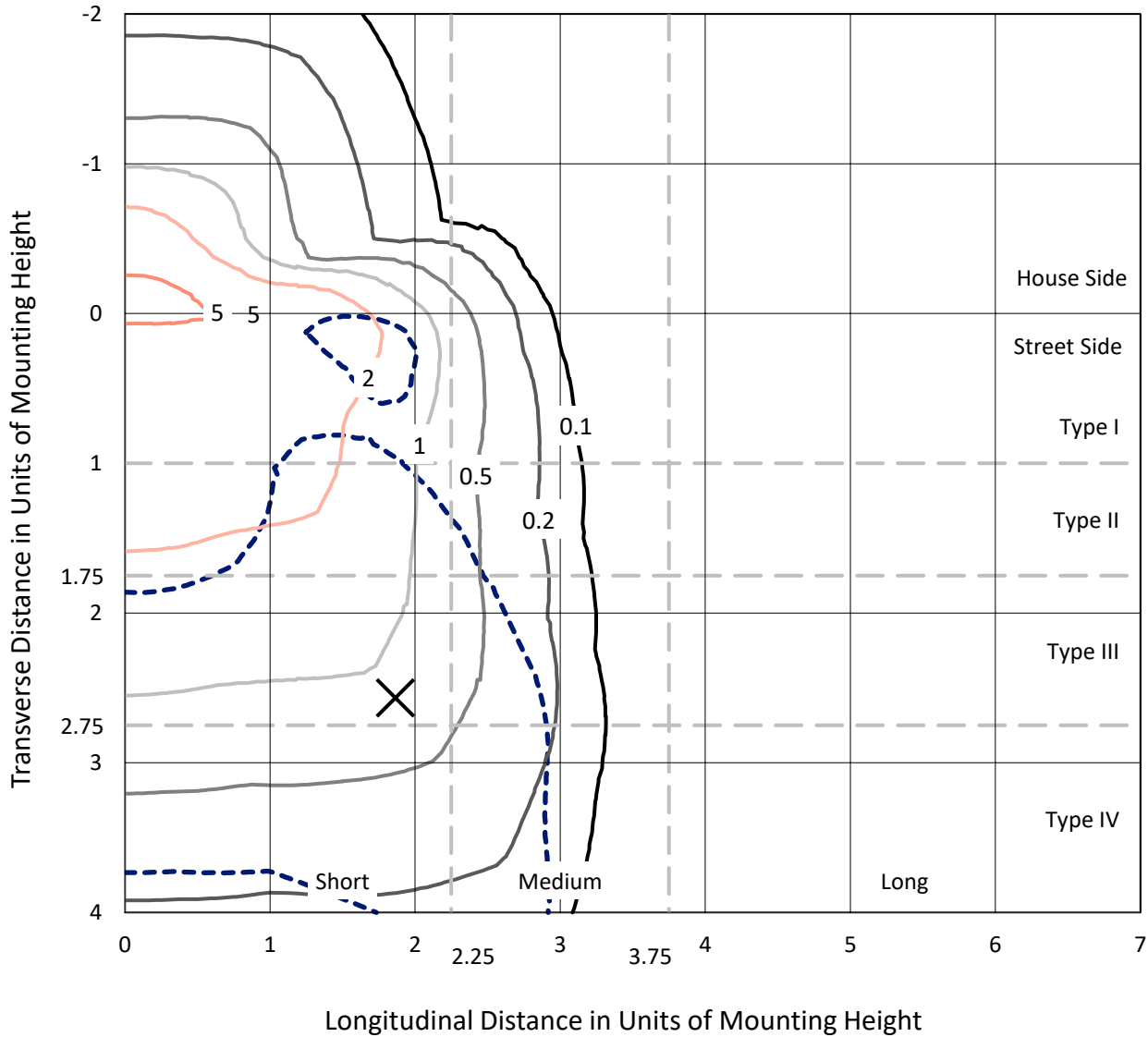
Lumens per Lamp: N/A  
Luminaire Lumens: 35410.7 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

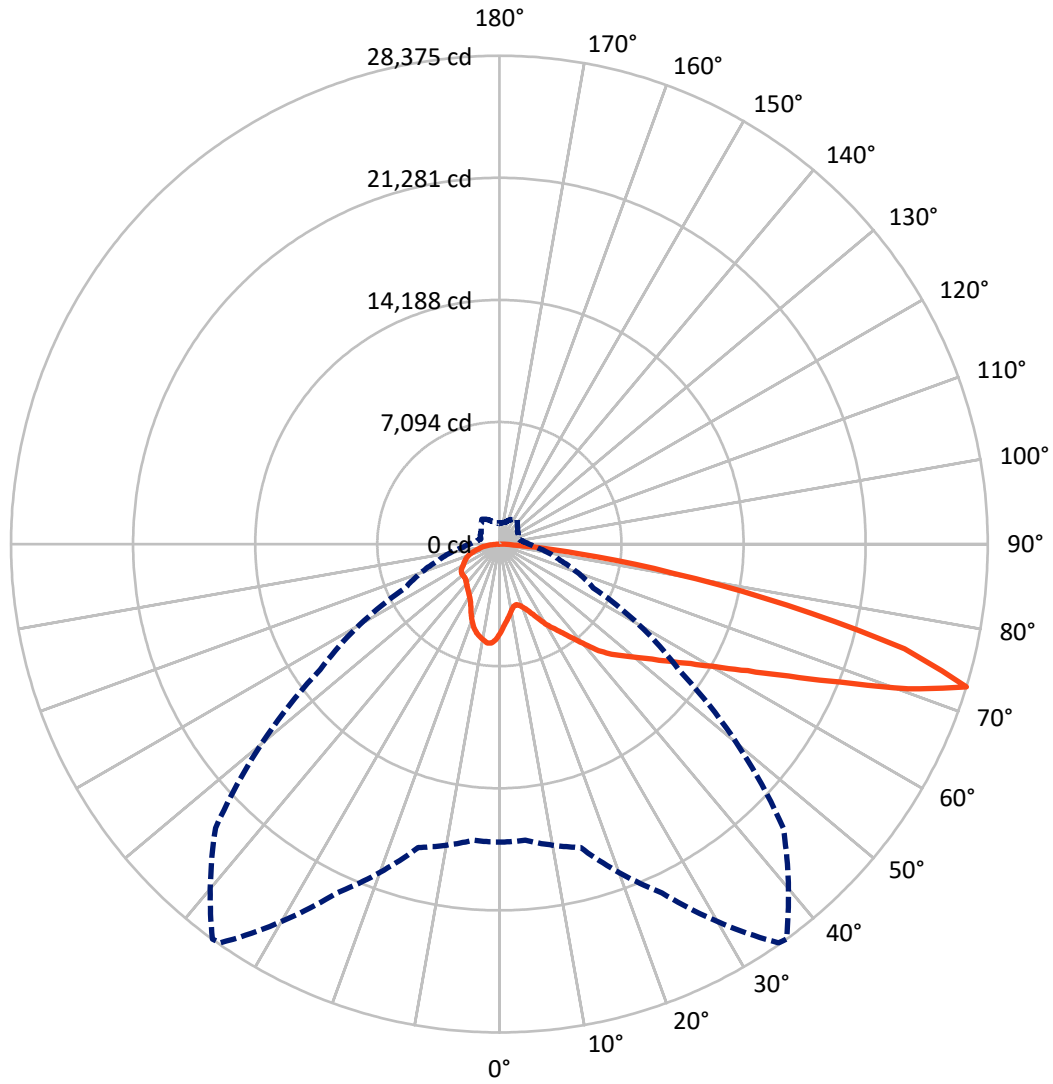
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8163.7	0.0	8163.7
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	27247.0	0.0	27247.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	35410.7	0.0	35410.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	484.4	1.4
10°-20°	1366.7	3.9
20°-30°	2263.5	6.4
30°-40°	3389.8	9.6
40°-50°	4945.4	14.0
50°-60°	7038.9	19.9
60°-70°	8893.1	25.1
70°-80°	6337.1	17.9
80°-90°	691.8	2.0
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°	35410.7	100.0
0°-180°	35410.7	100.0

**Coefficient of Utilization**



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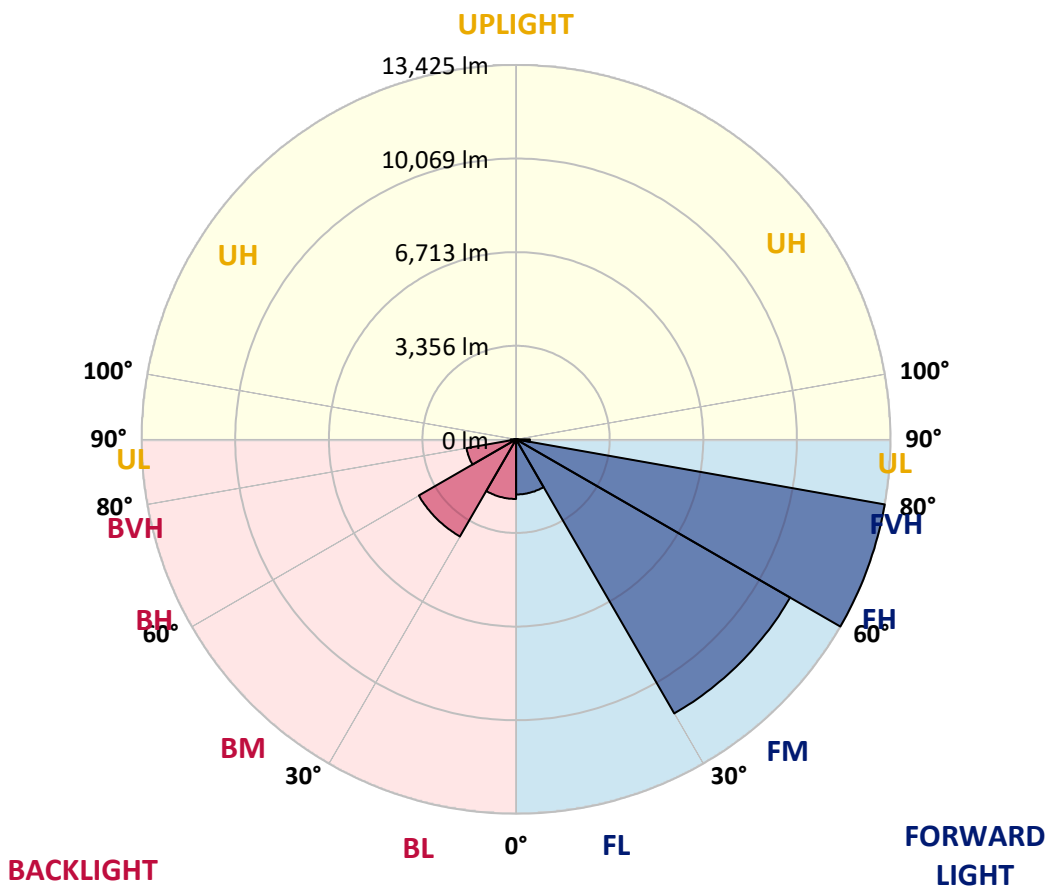
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.9	5.6			
FM (30°-60°)	11348.2	32.0			
FH (60°-80°)	13425.4	37.9			G5
FVH (80°-90°)	496.5	1.4			G3/500
BL (0°-30°)	2137.8	6.0	B3/2500		
BM (30°-60°)	4025.9	11.4	B3/5000		
BH (60°-80°)	1804.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	195.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5
2.5°	4727.9	4720.0	4704.2	4751.5	4798.8	4793.6	4859.3	4922.3	4990.7	5061.6	5156.2
5°	4349.4	4344.2	4331.0	4402.0	4472.9	4470.3	4578.1	4680.6	4819.8	4972.3	5161.5
7.5°	3971.0	3957.8	3976.2	4065.6	4165.5	4176.0	4323.1	4491.3	4693.7	4922.3	5190.4
10°	3637.2	3634.6	3642.5	3742.3	3892.1	3902.7	4091.9	4325.8	4593.8	4898.7	5256.1
12.5°	3550.5	3545.2	3524.2	3574.1	3687.2	3702.9	3910.5	4197.0	4525.5	4911.8	5345.5
15°	3692.4	3679.3	3605.7	3582.0	3637.2	3650.4	3826.4	4120.8	4486.1	4935.5	5458.5
17.5°	3936.8	3928.9	3789.6	3692.4	3729.2	3739.7	3871.1	4107.6	4475.6	4982.8	5597.7
20°	4294.2	4260.1	4041.9	3894.8	3894.8	3910.5	3989.4	4165.5	4488.7	5040.6	5755.4
22.5°	4767.3	4699.0	4391.5	4191.7	4139.2	4160.2	4194.4	4310.0	4543.9	5137.8	5952.5
25°	5298.1	5235.1	4869.8	4588.6	4515.0	4522.9	4494.0	4515.0	4664.8	5271.9	6196.9
27.5°	5863.2	5821.1	5432.2	5074.8	4959.1	4959.1	4856.6	4806.7	4833.0	5424.3	6470.3
30°	6367.8	6309.9	5981.4	5589.9	5437.4	5437.4	5243.0	5135.2	5072.1	5610.9	6835.6
32.5°	6633.2	6599.0	6380.9	6081.3	5894.7	5865.8	5697.6	5571.5	5424.3	5886.8	7329.6
35°	6980.1	6972.2	6840.8	6606.9	6370.4	6328.3	6212.7	6112.8	5857.9	6231.1	7986.6
37.5°	7416.4	7403.2	7382.2	7242.9	6959.1	6951.2	6848.7	6727.8	6396.7	6727.8	8782.9
40°	7905.2	7881.5	7855.2	7852.6	7681.8	7652.9	7645.0	7508.3	7045.8	7327.0	9613.4
42.5°	8578.0	8496.5	8249.4	8359.8	8486.0	8459.7	8559.6	8354.6	7855.2	8039.2	10399.2
45°	9405.8	9206.1	8717.2	8748.8	9066.8	9119.3	9466.2	9416.3	8746.2	8861.8	11227.0
47.5°	9902.5	9729.0	9274.4	9248.1	9644.9	9710.6	10464.9	10559.5	9705.4	9852.6	12249.3
50°	10309.8	10188.9	9815.8	9852.6	10273.0	10338.7	11455.7	11658.0	10609.4	10867.0	13437.2
52.5°	10801.3	10627.8	10338.7	10512.2	11027.3	11106.1	12556.8	12775.0	11424.1	11981.3	14667.1
55°	11077.2	11006.3	11011.5	11277.0	11923.5	12031.2	13710.5	13673.7	12170.5	12935.3	15592.2
57.5°	11713.2	11686.9	11928.7	12028.6	12969.4	13108.7	14864.3	14548.9	12848.5	13673.7	16036.4
60°	12835.4	12769.7	12979.9	13132.4	14262.4	14459.5	16152.0	15405.6	13308.4	14223.0	15886.6
62.5°	14412.2	14330.8	14338.6	14580.4	15994.3	16201.9	17584.3	16120.5	13450.4	14307.1	14937.8
65°	16372.8	16254.5	16120.5	16449.0	18293.9	18467.3	19142.7	16640.8	13111.3	13497.7	12956.3
67.5°	18441.0	18343.8	18186.1	18874.7	21271.4	21376.6	20890.4	16596.1	12036.5	11332.2	9087.8
70°	18561.9	18585.6	19331.9	21823.3	25158.3	25184.6	22543.4	15697.3	9747.4	7345.4	4528.1
72.5°	17316.2	17276.8	18249.2	22362.1	28285.7	28375.1	23323.9	12717.1	6023.5	3663.5	2123.5
75°	14065.3	14133.7	15156.0	19565.8	24243.8	24322.6	19013.9	7497.8	2861.9	1792.3	1358.7
77.5°	6055.0	6436.1	8451.8	13784.1	17363.5	17119.1	9800.0	3038.0	1526.9	1277.2	1040.7
80°	1747.7	1897.5	3011.7	6554.4	10404.4	10220.5	3879.0	1137.9	1064.4	959.2	746.4
82.5°	565.0	625.5	1103.8	2609.7	4662.2	4656.9	1471.7	672.8	696.4	651.8	480.9
85°	157.7	181.3	339.0	791.0	1442.8	1413.9	425.7	318.0	370.6	375.8	239.2
87.5°	0.0	0.0	2.6	5.3	5.3	5.3	10.5	47.3	107.8	136.7	97.2
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°	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5	5182.5
2.5°	5214.1	5206.2	5313.9	5398.0	5476.9	5529.4	5545.2	5555.7	5576.7	5587.2	5576.7
5°	5250.8	5290.3	5469.0	5600.4	5705.5	5768.6	5771.2	5765.9	5781.7	5768.6	5760.7
7.5°	5329.7	5405.9	5631.9	5771.2	5839.5	5842.2	5779.1	5705.5	5668.7	5637.2	5626.7
10°	5434.8	5547.8	5794.9	5886.8	5865.8	5768.6	5629.3	5513.6	5447.9	5400.6	5390.1
12.5°	5579.4	5705.5	5939.4	5936.8	5805.4	5631.9	5469.0	5329.7	5235.1	5179.9	5161.5
15°	5716.0	5876.3	6044.5	5921.0	5713.4	5503.1	5292.9	5106.3	4980.2	4893.4	4877.7
17.5°	5884.2	6055.0	6120.7	5871.1	5597.7	5327.1	5045.9	4801.4	4630.6	4528.1	4520.2
20°	6078.7	6231.1	6157.5	5784.3	5447.9	5093.2	4712.1	4438.8	4254.8	4154.9	4162.8
22.5°	6304.7	6415.1	6168.0	5666.1	5240.3	4762.0	4336.3	4073.5	3950.0	3897.4	3900.0
25°	6546.5	6617.4	6149.6	5505.8	4922.3	4357.3	3950.0	3829.1	3818.6	3805.4	3810.7
27.5°	6832.9	6817.2	6094.4	5279.8	4494.0	3886.9	3679.3	3710.8	3752.9	3747.6	3752.9
30°	7216.6	7066.8	6023.5	4967.0	3984.1	3492.7	3519.0	3608.3	3663.5	3668.8	3684.5
32.5°	7655.5	7342.8	5910.5	4541.3	3497.9	3271.9	3369.2	3476.9	3542.6	3555.8	3576.8
35°	8178.5	7658.1	5710.8	4010.4	3148.4	3140.5	3229.9	3303.5	3374.4	3379.7	3379.7
37.5°	8780.3	7973.5	5392.8	3424.3	2932.9	3027.5	3111.6	3127.4	3145.8	3130.0	3137.9
40°	9332.2	8278.4	4940.7	2890.9	2756.8	2927.6	2998.6	2946.0	2888.2	2848.8	2856.7
42.5°	9794.7	8486.0	4341.5	2517.7	2578.1	2838.3	2893.5	2785.7	2672.7	2599.1	2609.7
45°	10315.1	8677.8	3637.2	2265.4	2425.7	2775.2	2812.0	2672.7	2528.2	2417.8	2402.0
47.5°	11032.6	9069.4	3011.7	2089.3	2317.9	2741.1	2801.5	2612.3	2423.1	2257.5	2239.1
50°	11918.2	9623.9	2488.8	1973.7	2268.0	2722.7	2798.9	2546.6	2320.6	2126.1	2113.0
52.5°	12885.3	10165.3	2102.4	1884.3	2218.1	2667.5	2785.7	2473.0	2212.8	2002.6	1986.8
55°	13529.2	10378.2	1842.3	1800.2	2136.6	2580.7	2733.2	2402.0	2049.9	1858.0	1834.4
57.5°	13718.4	10104.9	1660.9	1724.0	2031.5	2459.9	2633.3	2252.2	1950.0	1797.6	1779.2
60°	13392.5	9416.3	1547.9	1660.9	1915.8	2304.8	2459.9	2165.5	1871.2	1734.5	1721.4
62.5°	12472.7	8354.6	1461.2	1595.2	1797.6	2141.9	2349.5	2060.4	1784.4	1676.7	1658.3
65°	10622.6	6851.3	1390.2	1526.9	1684.6	1986.8	2228.6	1955.3	1689.8	1608.4	1587.3
67.5°	7429.5	4812.0	1314.0	1445.4	1571.6	1837.0	2102.4	1858.0	1592.6	1532.2	1511.1
70°	3632.0	2551.8	1222.0	1350.8	1450.7	1684.6	1976.3	1739.8	1463.8	1429.7	1400.8
72.5°	1729.3	1427.0	1114.3	1222.0	1285.1	1482.2	1766.0	1568.9	1311.4	1237.8	1187.9
75°	1159.0	1014.4	972.4	1069.6	1085.4	1243.1	1513.8	1353.4	1156.3	1072.2	1030.2
77.5°	877.8	775.3	817.3	904.0	872.5	1022.3	1245.7	1206.3	1043.3	967.1	946.1
80°	617.6	565.0	649.1	701.7	678.0	869.9	1122.2	1032.8	859.4	775.3	759.5
82.5°	389.0	378.4	478.3	486.2	494.1	688.5	922.4	812.1	667.5	549.3	509.8
85°	194.5	215.5	286.5	286.5	283.8	354.8	525.6	457.3	360.0	286.5	278.6
87.5°	65.7	92.0	123.5	99.9	76.2	60.4	68.3	84.1	89.4	86.7	86.7
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)