

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: P642212

Luminaire Tested: GWS-SA6C-740-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-740-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

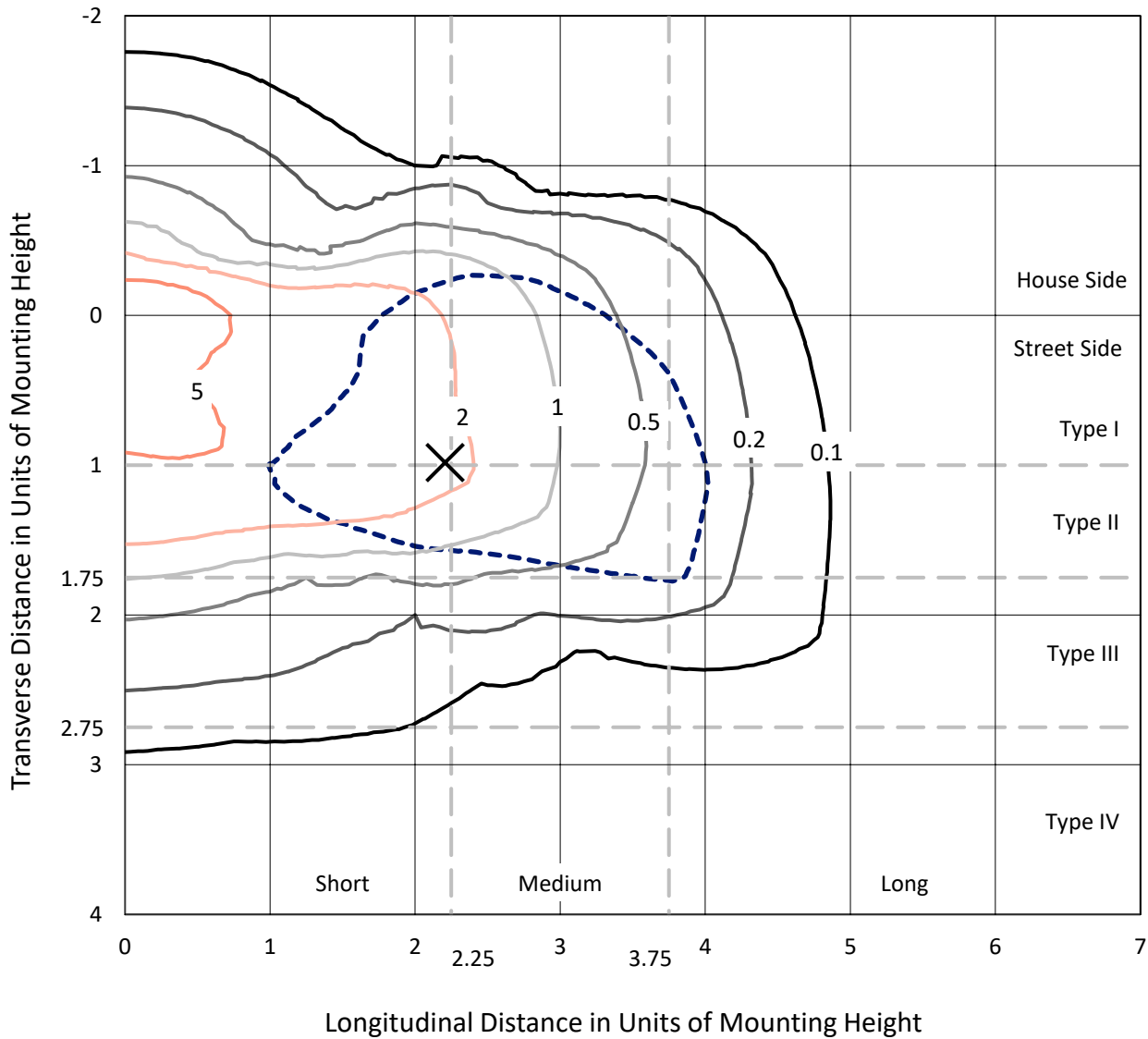
Lumens per Lamp: N/A  
Luminaire Lumens: 27903.1 lumens  
Efficiency: N/A  
Efficacy: 147.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

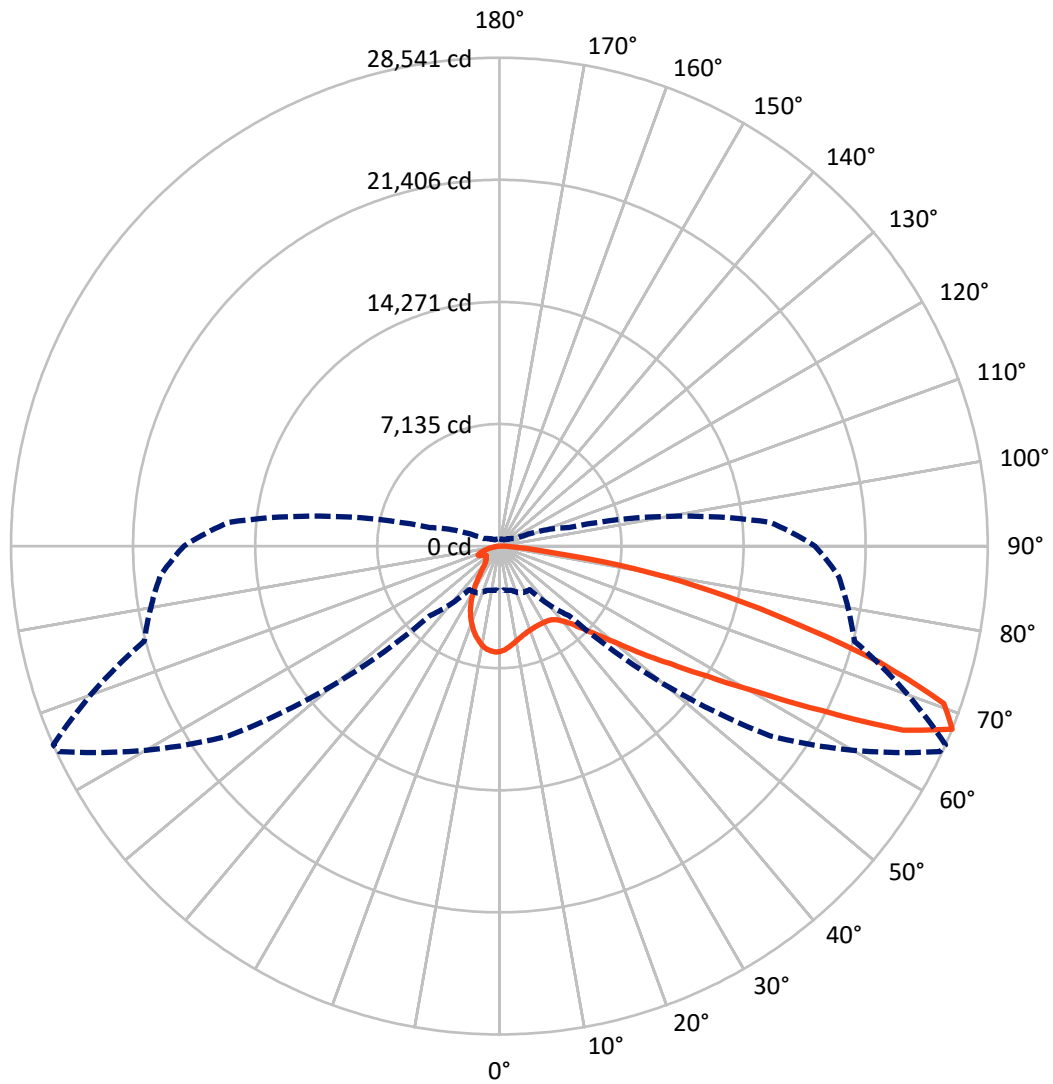
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5662.2	0.0	5662.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	22240.9	0.0	22240.9
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	27903.1	0.0	27903.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.1	1.9
10°-20°	1329.9	4.8
20°-30°	1828.0	6.6
30°-40°	2499.1	9.0
40°-50°	3786.8	13.6
50°-60°	5886.7	21.1
60°-70°	7167.0	25.7
70°-80°	4365.8	15.6
80°-90°	498.7	1.8
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°	27903.1	100.0
0°-180°	27903.1	100.0

**Coefficient of Utilization**



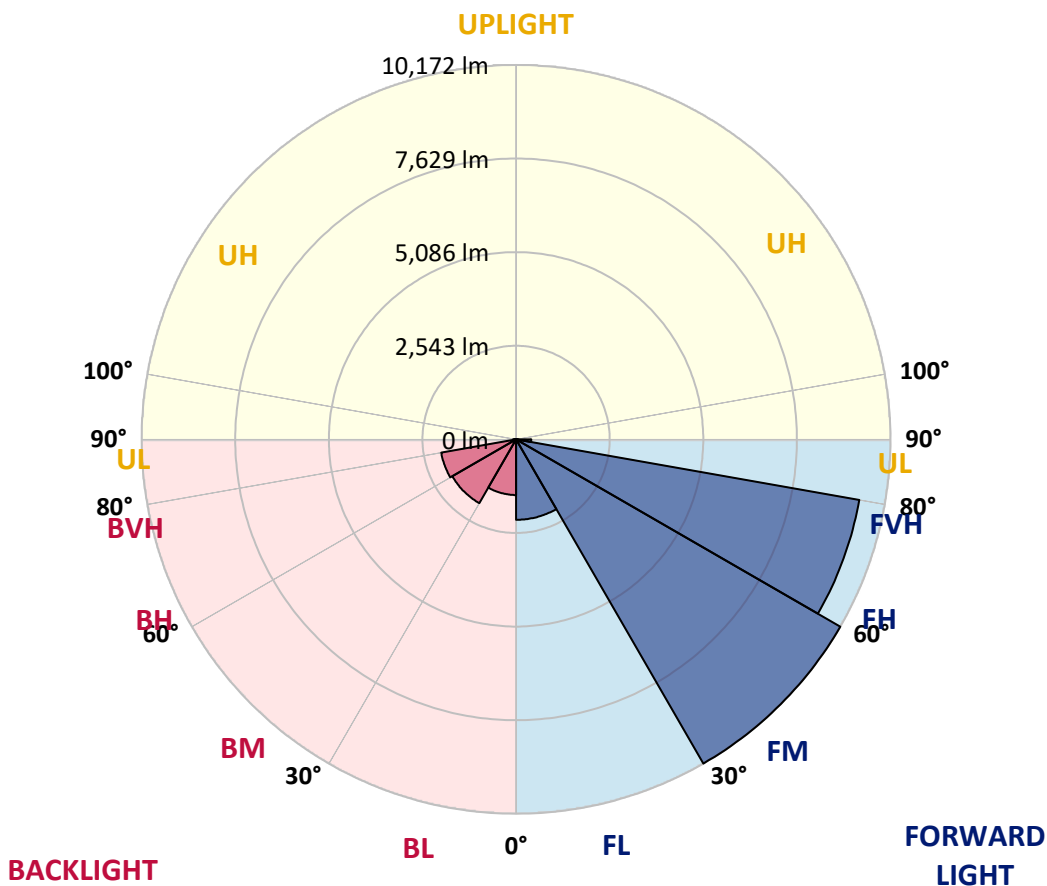
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2186.3	7.8			
FM (30°-60°)	10171.7	36.5			
FH (60°-80°)	9468.2	33.9			G4/12000
FVH (80°-90°)	414.6	1.5			G3/500
BL (0°-30°)	1512.6	5.4	B3/2500		
BM (30°-60°)	2000.9	7.2	B2/2500		
BH (60°-80°)	2064.5	7.4	B3/2500		G3/2500
BVH (80°-90°)	84.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8
2.5°	5775.0	5795.3	5783.1	5860.5	5864.5	5962.2	6017.2	6064.0	6068.1	6129.2	6169.9
5°	5380.1	5392.3	5392.3	5465.6	5514.4	5644.7	5770.9	5905.2	5915.4	6062.0	6173.9
7.5°	5060.5	5072.7	5064.5	5162.2	5225.4	5369.9	5530.7	5736.3	5756.6	5992.8	6188.2
10°	4810.1	4806.0	4826.4	4915.9	4997.4	5170.4	5349.5	5583.6	5614.1	5913.4	6204.5
12.5°	4639.1	4643.2	4655.4	4749.0	4836.6	5007.5	5192.8	5447.2	5479.8	5821.8	6196.3
15°	4557.7	4549.5	4559.7	4645.2	4728.7	4879.3	5070.6	5333.2	5365.8	5740.4	6198.4
17.5°	4539.4	4533.3	4531.2	4592.3	4655.4	4795.8	4979.0	5245.7	5280.3	5687.4	6210.6
20°	4596.4	4588.2	4565.8	4592.3	4618.7	4736.8	4913.9	5182.6	5221.3	5652.8	6235.0
22.5°	4753.1	4738.8	4704.2	4671.7	4637.1	4708.3	4873.2	5135.8	5174.5	5630.4	6259.4
25°	4991.3	4979.0	4942.4	4869.1	4742.9	4730.7	4865.1	5115.4	5154.1	5614.1	6269.6
27.5°	5319.0	5300.7	5264.0	5158.2	4952.6	4814.2	4895.6	5113.4	5150.0	5595.8	6259.4
30°	5707.8	5695.6	5675.2	5547.0	5272.2	4991.3	4964.8	5129.7	5158.2	5585.7	6239.1
32.5°	6102.7	6090.5	6106.8	6045.7	5707.8	5284.4	5115.4	5174.5	5194.8	5583.6	6220.8
35°	6450.8	6465.0	6583.1	6593.3	6261.5	5681.3	5353.6	5278.3	5282.3	5624.3	6228.9
37.5°	6815.1	6870.1	7024.8	7157.1	6880.3	6206.5	5707.8	5473.7	5469.6	5728.1	6279.8
40°	7297.6	7322.0	7519.5	7767.8	7594.8	6927.1	6210.6	5793.3	5764.8	5939.8	6416.2
42.5°	7767.8	7826.8	8142.3	8427.3	8370.3	7739.3	6843.6	6271.6	6220.8	6314.4	6697.1
45°	8366.3	8423.3	8777.5	9143.9	9247.7	8657.4	7653.8	6951.5	6900.6	6878.2	7212.1
47.5°	8964.7	9023.8	9341.3	9870.6	10234.9	9805.4	8708.2	7849.2	7765.8	7678.2	7989.7
50°	9367.8	9437.0	9740.3	10375.4	11230.3	11238.5	9958.1	9025.8	8919.9	8781.5	9084.8
52.5°	9353.5	9398.3	9687.4	10420.2	11946.9	12885.3	11631.3	10524.0	10438.5	10137.2	10401.8
55°	8618.7	8685.8	8976.9	9893.0	12024.2	14446.6	14090.3	12290.9	12138.2	11598.8	11889.9
57.5°	7142.9	7199.9	7493.0	8622.7	11338.2	15246.5	17212.9	14542.2	14332.6	13190.6	13526.5
60°	5392.3	5323.1	5461.5	6450.8	9697.5	15266.9	19969.1	17595.6	17245.5	14892.4	15173.3
62.5°	4046.7	3977.5	4008.1	4286.9	6574.9	14033.3	21540.6	21772.6	21194.5	16813.9	16759.0
65°	3197.9	3159.2	3246.8	3438.1	3833.0	10686.8	21552.8	26289.6	25925.2	19040.9	18385.4
67.5°	2605.6	2581.1	2670.7	3024.9	3108.3	5742.4	19325.9	28398.5	28541.0	21479.5	19893.8
70°	2098.7	2062.0	2202.5	2668.7	2890.5	3474.7	13844.0	27323.7	27553.7	22932.9	19468.4
72.5°	1449.3	1451.4	1522.6	2161.8	2790.8	3000.5	7830.9	22751.8	23250.5	21615.9	17115.2
75°	977.1	985.2	1005.6	1426.9	2570.9	2910.9	4173.0	17225.1	17577.3	17866.3	14147.3
77.5°	590.3	594.4	641.2	863.1	1773.0	2717.5	2827.4	12486.3	12763.1	11777.9	8769.3
80°	342.0	356.2	399.0	578.1	1196.9	2041.7	2188.3	7655.8	7969.3	5235.5	2786.7
82.5°	150.6	160.8	217.8	335.9	698.2	1736.4	1707.9	3024.9	2980.1	1459.5	966.9
85°	26.5	32.6	46.8	105.9	256.5	916.0	1325.2	1335.3	1256.0	553.7	401.0
87.5°	0.0	0.0	0.0	0.0	0.0	6.1	199.5	358.3	356.2	156.7	138.4
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°	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8	6165.8
2.5°	6196.3	6141.4	6190.2	6196.3	6186.1	6178.0	6116.9	6064.0	6057.9	6000.9	6000.9
5°	6218.7	6167.8	6192.3	6145.4	6072.2	5996.8	5866.6	5777.0	5736.3	5663.0	5663.0
7.5°	6249.3	6196.3	6167.8	6051.8	5880.8	5715.9	5506.3	5331.2	5260.0	5156.1	5152.1
10°	6277.8	6210.6	6112.9	5886.9	5614.1	5351.6	5046.2	4797.9	4628.9	4504.8	4504.8
12.5°	6275.7	6188.2	5994.8	5661.0	5284.4	4903.7	4496.6	4122.1	3898.1	3704.8	3692.6
15°	6271.6	6151.5	5844.2	5398.4	4899.7	4372.4	3818.8	3330.2	2998.4	2809.1	2792.8
17.5°	6267.6	6104.7	5675.2	5099.1	4431.5	3712.9	2982.1	2452.9	2176.0	2060.0	2064.1
20°	6267.6	6051.8	5494.0	4755.1	3892.0	2923.1	2188.3	1803.5	1734.3	1740.4	1746.5
22.5°	6249.3	5986.7	5292.5	4380.6	3291.5	2149.6	1614.2	1483.9	1520.6	1577.6	1585.7
25°	6206.5	5878.8	5058.4	3965.3	2577.1	1565.4	1317.0	1292.6	1359.8	1431.0	1451.4
27.5°	6139.3	5754.6	4795.8	3478.8	1897.2	1258.0	1158.2	1156.2	1209.1	1262.1	1280.4
30°	6068.1	5616.2	4519.0	2937.4	1374.0	1095.1	1056.5	1056.5	1082.9	1115.5	1111.4
32.5°	5984.6	5475.7	4221.8	2373.5	1119.6	1003.5	991.3	985.2	989.3	1001.5	1001.5
35°	5913.4	5351.6	3916.5	1777.1	1003.5	952.7	940.4	926.2	920.1	911.9	916.0
37.5°	5886.9	5253.8	3601.0	1339.4	946.5	916.0	895.7	875.3	861.1	857.0	854.9
40°	5929.7	5213.1	3285.4	1103.3	905.8	877.3	854.9	828.5	816.3	816.3	816.3
42.5°	6096.6	5243.7	2963.8	997.4	877.3	844.8	812.2	787.8	783.7	787.8	789.8
45°	6401.9	5361.7	2630.0	944.5	852.9	812.2	773.5	755.2	755.2	759.3	759.3
47.5°	6947.5	5671.1	2300.2	911.9	828.5	785.7	745.0	726.7	724.7	728.7	728.7
50°	7892.0	6228.9	2003.0	889.6	810.2	765.4	724.7	700.2	694.1	692.1	692.1
52.5°	9082.8	7195.8	1813.7	873.3	787.8	743.0	702.3	669.7	657.5	651.4	651.4
55°	10521.9	8484.3	1813.7	861.1	759.3	716.5	669.7	637.1	618.8	610.7	610.7
57.5°	12152.5	9984.6	2127.2	850.9	736.9	686.0	635.1	602.5	582.2	570.0	570.0
60°	13811.5	11570.3	2902.7	836.6	716.5	647.3	596.4	565.9	539.4	525.2	523.1
62.5°	15531.5	13316.8	3924.6	844.8	702.3	610.7	555.7	521.1	498.7	484.5	482.4
65°	17107.1	14979.9	4818.2	907.9	704.3	578.1	508.9	478.4	460.0	441.7	439.7
67.5°	18444.5	15897.9	4191.3	1036.1	747.1	539.4	462.1	431.5	415.3	403.0	401.0
70°	17508.1	14497.5	2377.6	1115.5	806.1	498.7	409.2	388.8	372.5	364.4	362.3
72.5°	14971.7	12274.6	1589.8	985.2	734.8	445.8	360.3	344.0	331.8	321.6	319.6
75°	12128.0	9734.2	1215.2	808.1	572.0	362.3	309.4	297.2	285.0	274.8	272.8
77.5°	7175.4	5624.3	895.7	639.2	403.0	282.9	256.5	246.3	234.1	226.0	223.9
80°	2290.0	1954.2	567.9	439.7	266.7	217.8	197.5	189.3	177.1	166.9	164.9
82.5°	873.3	755.2	301.3	223.9	177.1	148.6	132.3	124.2	116.0	105.9	103.8
85°	386.8	362.3	166.9	120.1	95.7	73.3	65.1	61.1	50.9	42.7	40.7
87.5°	136.4	136.4	71.2	34.6	20.4	10.2	6.1	2.0	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)