

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: P638267

Luminaire Tested: GWS-SA4E-740-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638267  
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-SA4E-740-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

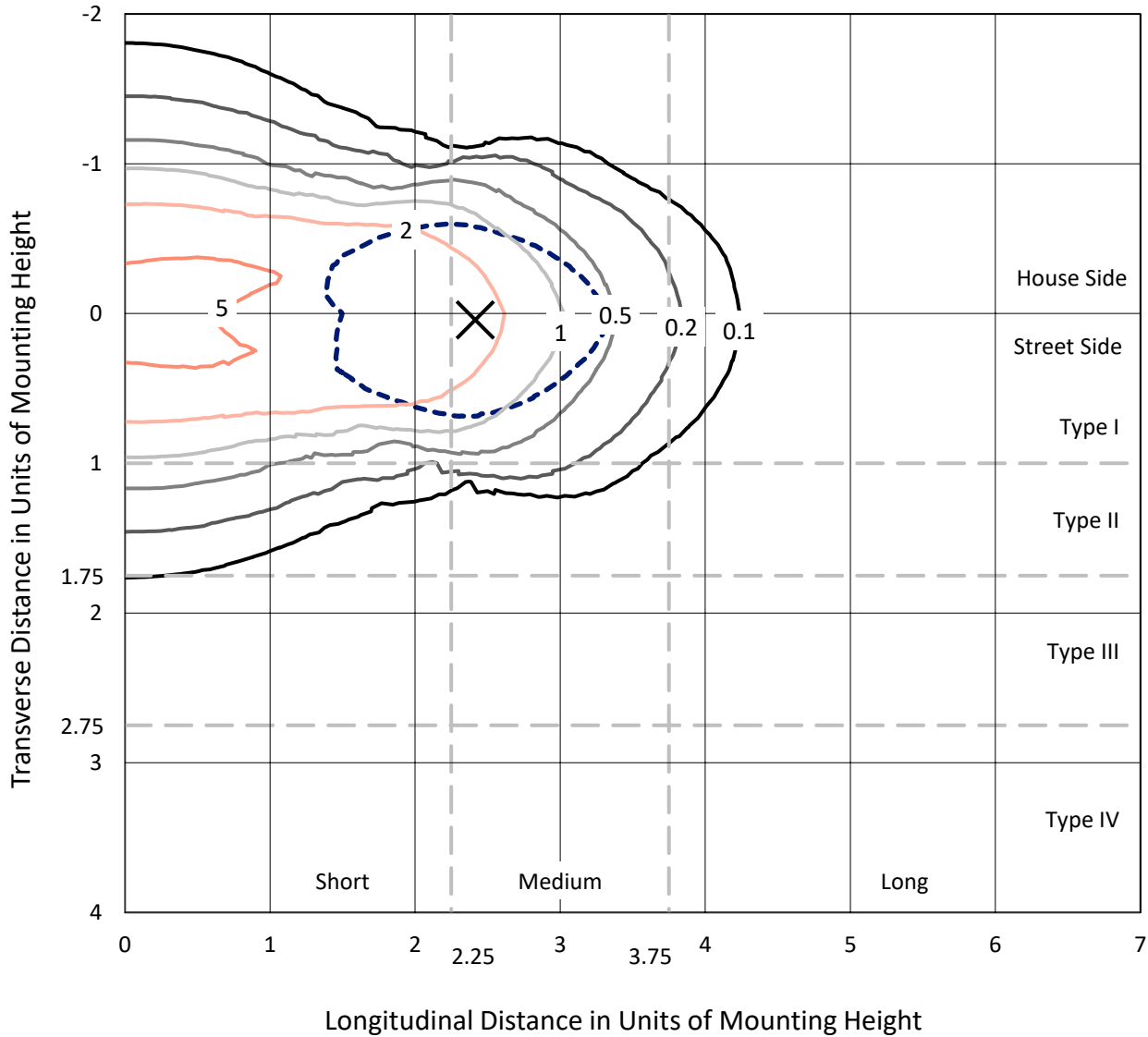
Lumens per Lamp: N/A  
Luminaire Lumens: 30546.7 lumens  
Efficiency: N/A  
Efficacy: 150.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

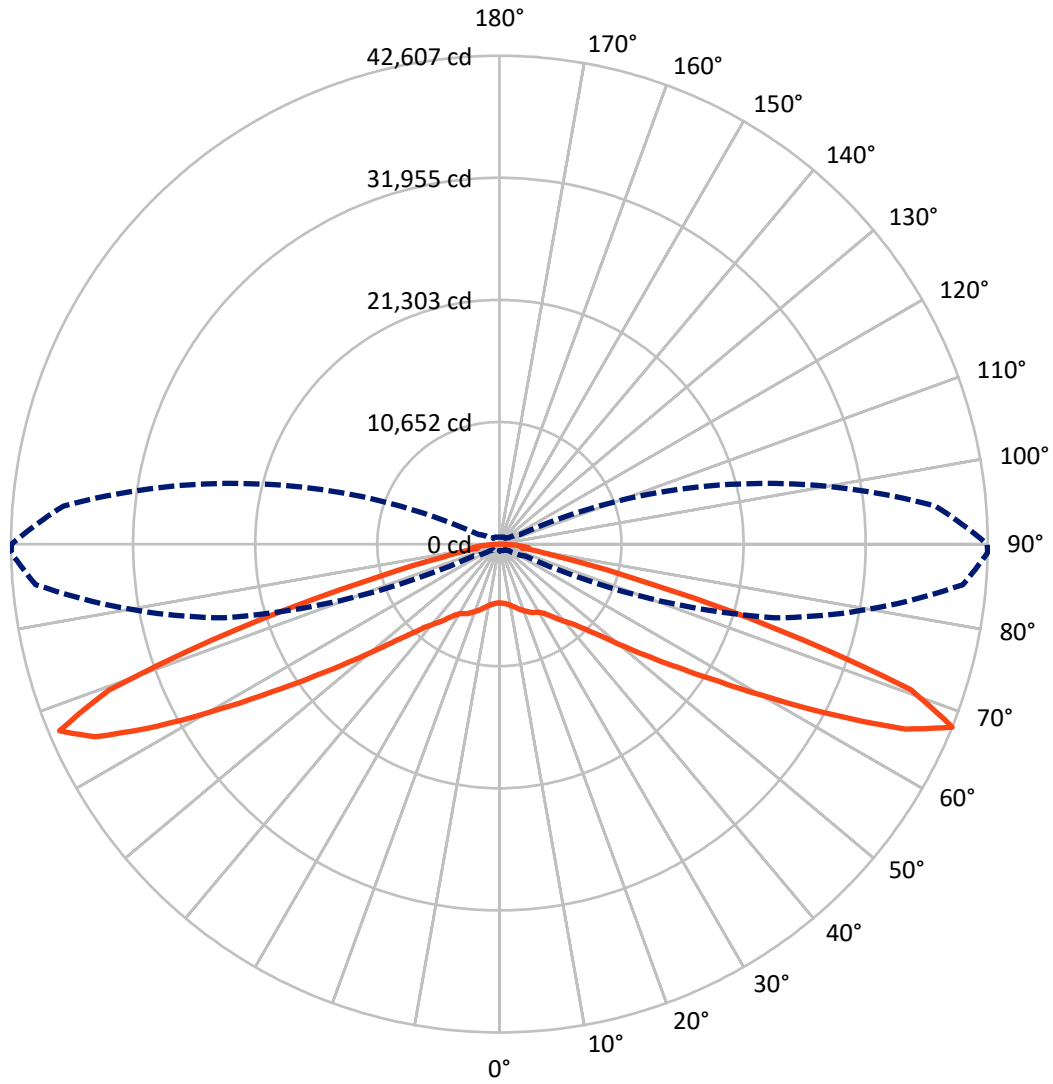
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	15139.5	0.0	15139.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	15407.2	0.0	15407.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	30546.7	0.0	30546.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.3	1.7
10°-20°	1674.6	5.5
20°-30°	2830.8	9.3
30°-40°	3884.9	12.7
40°-50°	4954.1	16.2
50°-60°	6215.7	20.3
60°-70°	7496.6	24.5
70°-80°	2712.1	8.9
80°-90°	263.7	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°	30546.7	100.0
0°-180°	30546.7	100.0

**Coefficient of Utilization**



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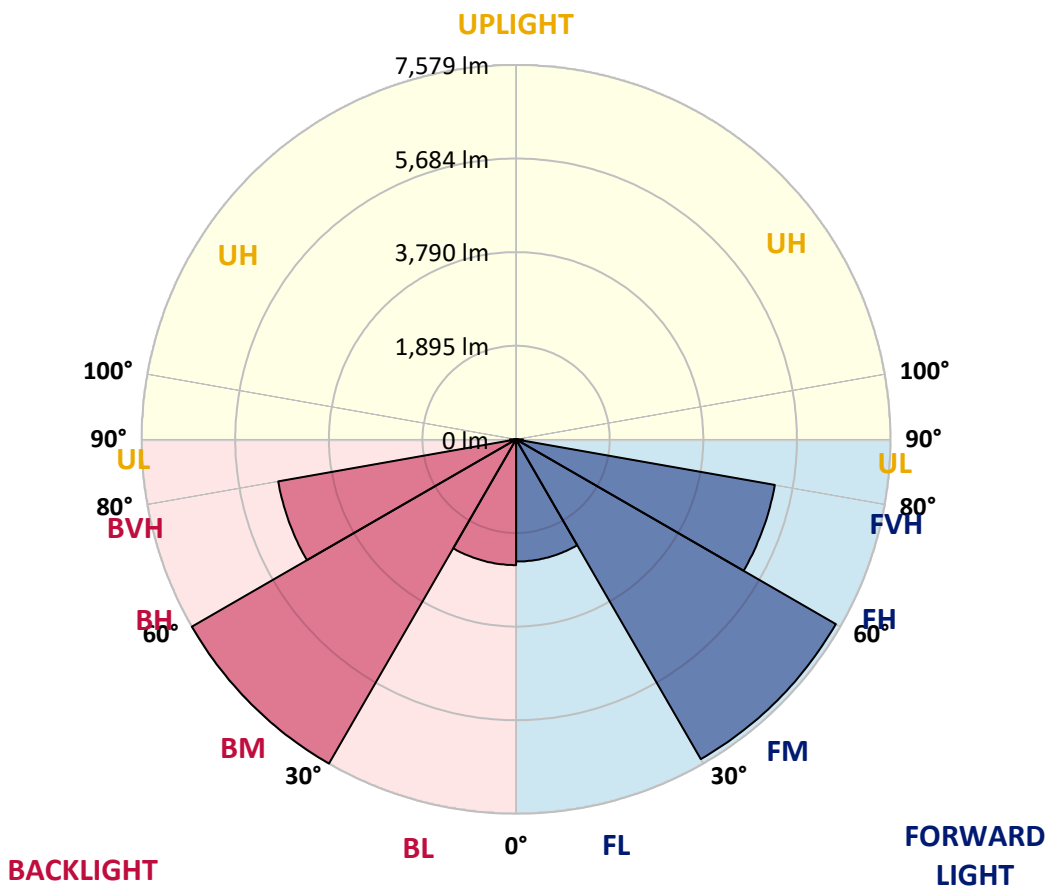
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2474.0	8.1			
FM (30°-60°)	7475.4	24.5			
FH (60°-80°)	5318.6	17.4			G3/7500
FVH (80°-90°)	139.2	0.5			G2/225
BL (0°-30°)	2545.6	8.3	B4/5000		
BM (30°-60°)	7579.3	24.8	B4/8500		
BH (60°-80°)	4890.0	16.0	B4/5000		G4/5000
BVH (80°-90°)	124.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0
2.5°	5142.4	5138.0	5127.0	5159.9	5153.3	5155.5	5168.7	5159.9	5144.6	5118.2	5155.5
5°	5287.2	5285.0	5260.8	5280.6	5258.6	5243.3	5241.1	5219.2	5201.6	5173.1	5212.6
7.5°	5427.6	5425.4	5405.6	5440.7	5423.2	5405.6	5385.9	5342.0	5300.3	5258.6	5302.5
10°	5535.1	5532.9	5528.5	5578.9	5583.3	5589.9	5581.1	5506.6	5434.2	5383.7	5427.6
12.5°	5596.5	5603.1	5614.1	5706.2	5752.3	5796.1	5807.1	5745.7	5625.0	5552.6	5605.3
15°	5554.8	5568.0	5622.8	5789.6	5916.8	6015.5	6057.2	6006.7	5851.0	5730.3	5789.6
17.5°	5355.2	5366.1	5473.6	5728.1	6008.9	6237.1	6305.1	6274.4	6101.1	5954.1	6011.1
20°	5078.8	5102.9	5219.2	5574.6	5993.6	6390.7	6572.8	6561.8	6373.1	6147.2	6215.2
22.5°	4828.7	4857.2	4980.0	5372.7	5890.5	6430.2	6842.6	6871.1	6621.0	6340.2	6395.1
25°	4547.8	4574.2	4732.1	5133.6	5712.8	6399.4	7073.0	7202.4	6901.8	6561.8	6612.3
27.5°	4260.4	4280.2	4436.0	4863.8	5480.2	6342.4	7255.0	7566.6	7178.3	6715.4	6750.5
30°	4008.2	4034.5	4177.1	4593.9	5225.7	6228.3	7404.2	7954.9	7496.4	6888.7	6917.2
32.5°	3764.6	3786.6	3942.3	4328.5	4955.9	6052.8	7538.1	8411.2	7968.0	7211.2	7211.2
35°	3457.5	3497.0	3672.5	4074.0	4701.4	5820.3	7634.6	8942.1	8613.0	7687.2	7689.4
37.5°	3174.5	3196.4	3380.7	3786.6	4433.8	5557.0	7643.4	9492.8	9429.1	8292.7	8297.1
40°	2852.0	2880.5	3078.0	3479.4	4126.6	5280.6	7560.0	10006.1	10284.7	8915.8	8891.7
42.5°	2525.1	2566.8	2755.5	3148.2	3795.4	4942.7	7338.4	10495.4	11370.7	9637.6	9578.3
45°	2209.2	2235.5	2424.2	2795.0	3415.8	4539.1	6983.0	10964.8	12660.7	10734.5	10648.9
47.5°	1853.8	1864.8	2060.0	2415.4	3023.1	4089.3	6474.0	11383.9	14077.9	12186.8	12039.8
50°	1537.9	1553.2	1706.8	2011.8	2542.7	3556.2	5840.0	11629.6	15883.4	14167.9	13913.4
52.5°	1243.9	1259.3	1382.1	1625.6	2101.7	2948.5	5054.6	11572.5	17715.3	16627.2	16256.4
55°	1004.8	1015.8	1099.1	1290.0	1654.2	2345.2	4126.6	11061.4	19749.0	19838.9	19040.4
57.5°	849.0	853.4	910.4	1026.7	1292.2	1807.7	3185.5	9854.8	21881.4	23937.1	22625.1
60°	759.1	761.3	787.6	860.0	1020.1	1379.9	2334.3	7932.9	24090.6	29064.1	27265.1
62.5°	702.0	702.0	724.0	765.7	846.8	1061.8	1715.6	5697.4	25676.8	34643.0	32855.0
65°	647.2	647.2	662.5	697.6	741.5	866.6	1287.8	3674.7	26455.6	39307.1	38910.0
67.5°	577.0	579.2	590.1	627.4	666.9	724.0	976.3	2485.6	24838.7	40597.1	42606.7
70°	511.2	513.4	528.7	552.8	585.8	625.2	763.5	1713.4	18079.5	33811.6	38096.1
72.5°	438.8	447.5	458.5	484.8	504.6	533.1	623.1	1110.1	10519.5	21749.8	25183.2
75°	359.8	370.8	383.9	410.2	423.4	434.4	513.4	792.0	5061.2	11021.9	12551.0
77.5°	278.6	289.6	304.9	329.1	337.9	351.0	392.7	572.6	2424.2	4885.7	5267.4
80°	186.5	190.9	204.0	232.5	247.9	256.7	289.6	390.5	1053.0	1961.3	1943.7
82.5°	114.1	116.3	120.7	138.2	144.8	153.6	188.7	239.1	502.4	2228.9	2555.8
85°	41.7	39.5	37.3	48.3	57.0	65.8	87.8	120.7	219.4	1531.3	1713.4
87.5°	0.0	0.0	0.0	2.2	4.4	4.4	8.8	17.6	52.7	572.6	392.7
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°	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0	5127.0
2.5°	5144.6	5120.4	5151.1	5173.1	5221.4	5238.9	5243.3	5227.9	5227.9	5201.6	5206.0
5°	5203.8	5188.4	5238.9	5276.2	5346.4	5372.7	5390.3	5379.3	5385.9	5368.3	5372.7
7.5°	5293.7	5280.6	5368.3	5440.7	5513.1	5543.8	5559.2	5550.4	5552.6	5530.7	5537.3
10°	5418.8	5423.2	5528.5	5622.8	5719.4	5750.1	5756.7	5730.3	5708.4	5668.9	5671.1
12.5°	5589.9	5611.9	5761.0	5866.3	5965.1	6008.9	5960.7	5864.1	5774.2	5706.2	5697.4
15°	5776.4	5815.9	6030.9	6164.7	6272.2	6250.3	6107.7	5890.5	5712.8	5611.9	5592.1
17.5°	6000.2	6059.4	6329.2	6489.4	6581.5	6441.1	6142.8	5818.1	5570.2	5434.2	5407.8
20°	6210.8	6305.1	6645.2	6853.6	6864.5	6548.6	6127.4	5671.1	5359.6	5192.8	5157.7
22.5°	6403.8	6524.5	6976.4	7241.9	7099.3	6596.9	6033.1	5462.7	5105.1	4909.8	4879.1
25°	6614.4	6785.6	7362.5	7610.5	7334.0	6577.1	5835.6	5203.8	4797.9	4598.3	4576.4
27.5°	6759.2	6974.2	7750.9	7987.8	7527.1	6465.3	5581.1	4920.8	4517.1	4328.5	4297.7
30°	6926.0	7200.2	8178.7	8398.0	7645.6	6300.7	5309.1	4657.5	4256.1	4052.0	4030.1
32.5°	7228.7	7573.2	8709.6	8832.4	7682.8	6096.7	5048.0	4403.0	3984.0	3780.0	3749.3
35°	7715.8	8119.4	9455.5	9317.3	7654.3	5872.9	4800.1	4104.7	3705.4	3514.5	3483.8
37.5°	8330.0	8832.4	10286.9	9753.8	7575.3	5627.2	4506.2	3854.6	3455.3	3262.2	3244.7
40°	8902.6	9521.3	11219.3	10131.2	7415.2	5324.5	4223.2	3593.5	3185.5	2981.4	2941.9
42.5°	9620.0	10442.7	12298.7	10458.1	7151.9	4962.5	3905.0	3271.0	2847.6	2663.3	2615.1
45°	10710.4	11732.7	13553.6	10771.8	6759.2	4517.1	3505.8	2878.3	2476.9	2288.2	2250.9
47.5°	12070.5	13345.2	14913.8	10958.3	6162.5	4047.6	3053.8	2463.7	2062.2	1849.4	1831.9
50°	13981.4	15690.4	16372.7	10925.4	5495.6	3490.4	2544.9	1970.1	1634.4	1480.8	1456.7
52.5°	16309.0	18634.5	17950.0	10530.5	4787.0	2856.4	1983.2	1546.7	1296.6	1186.9	1167.1
55°	19229.1	22160.0	19610.8	9683.6	3891.9	2187.3	1557.6	1219.8	1048.7	982.8	974.1
57.5°	22844.5	26725.4	21210.1	8257.6	2926.6	1669.5	1200.0	1007.0	925.8	886.3	884.1
60°	27616.1	31571.6	22598.8	6417.0	2095.1	1276.8	991.6	899.5	835.9	809.5	807.3
62.5°	33289.4	35972.5	23463.2	4370.1	1575.2	1017.9	873.2	816.1	778.8	763.5	761.3
65°	39120.7	38754.3	23050.7	2863.0	1195.6	864.4	783.2	752.5	719.6	704.2	704.2
67.5°	42565.0	38166.3	19885.0	1987.6	947.7	759.1	706.4	677.9	623.1	609.9	609.9
70°	37701.2	30926.6	13033.6	1454.5	767.8	664.7	614.3	574.8	552.8	539.7	537.5
72.5°	24935.3	20124.1	6930.4	1009.2	640.6	566.0	519.9	504.6	478.3	465.1	462.9
75°	12410.6	10569.9	3551.8	728.4	533.1	454.1	434.4	427.8	405.9	388.3	383.9
77.5°	5173.1	4705.8	1656.4	528.7	405.9	366.4	348.8	348.8	324.7	304.9	296.2
80°	1950.3	1737.5	783.2	362.0	300.6	272.0	261.1	252.3	232.5	208.4	195.3
82.5°	2608.5	1704.6	383.9	226.0	197.4	175.5	160.2	153.6	142.6	131.6	122.9
85°	1689.3	1211.0	173.3	116.3	98.7	74.6	65.8	61.4	54.8	48.3	43.9
87.5°	344.4	405.9	52.7	21.9	13.2	6.6	6.6	2.2	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)