

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: P637827

Luminaire Tested: GWS-SA4D-750-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637827  
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-SA4D-750-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

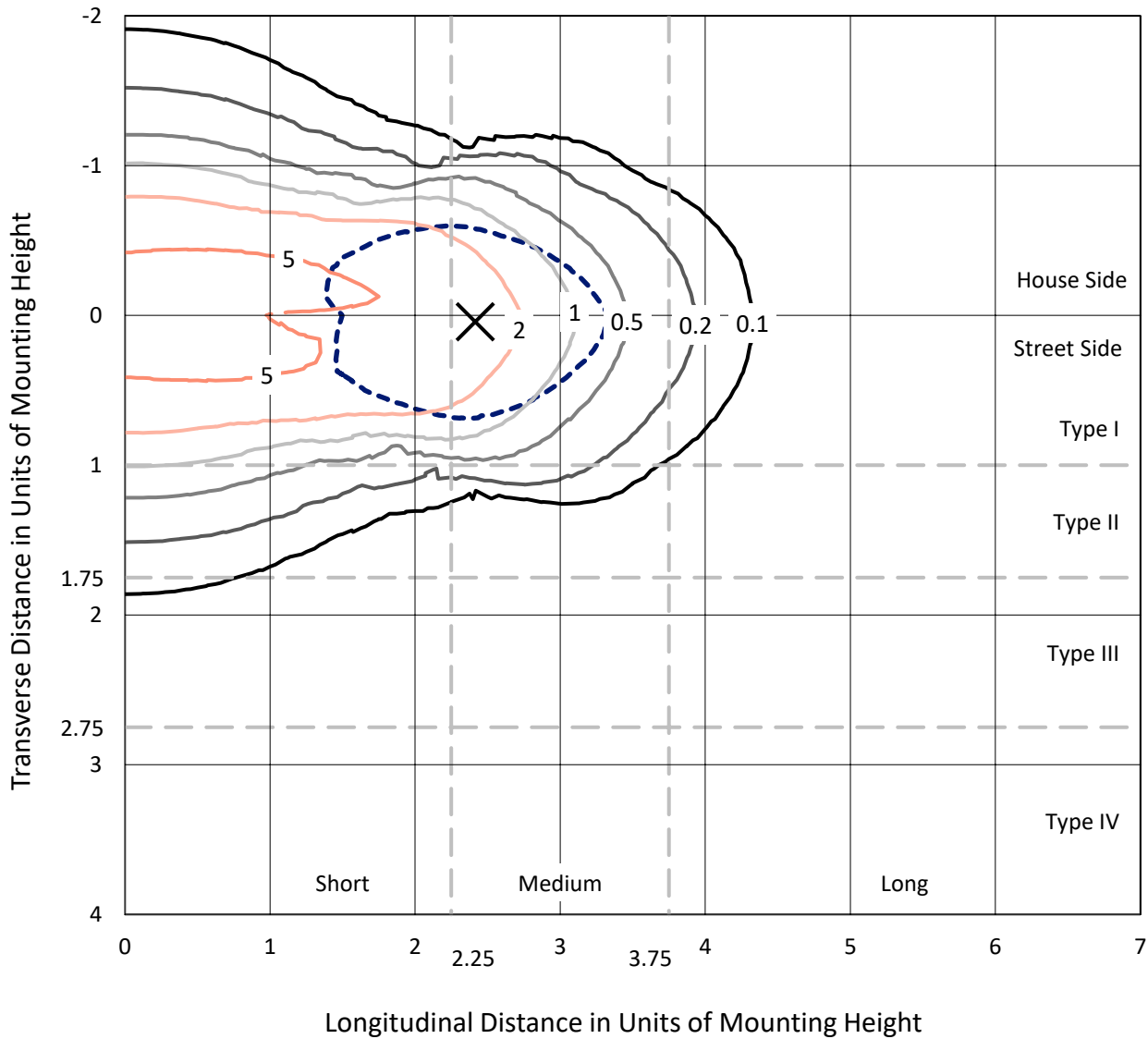
Lumens per Lamp: N/A  
Luminaire Lumens: 25004.3 lumens  
Efficiency: N/A  
Efficacy: 154.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

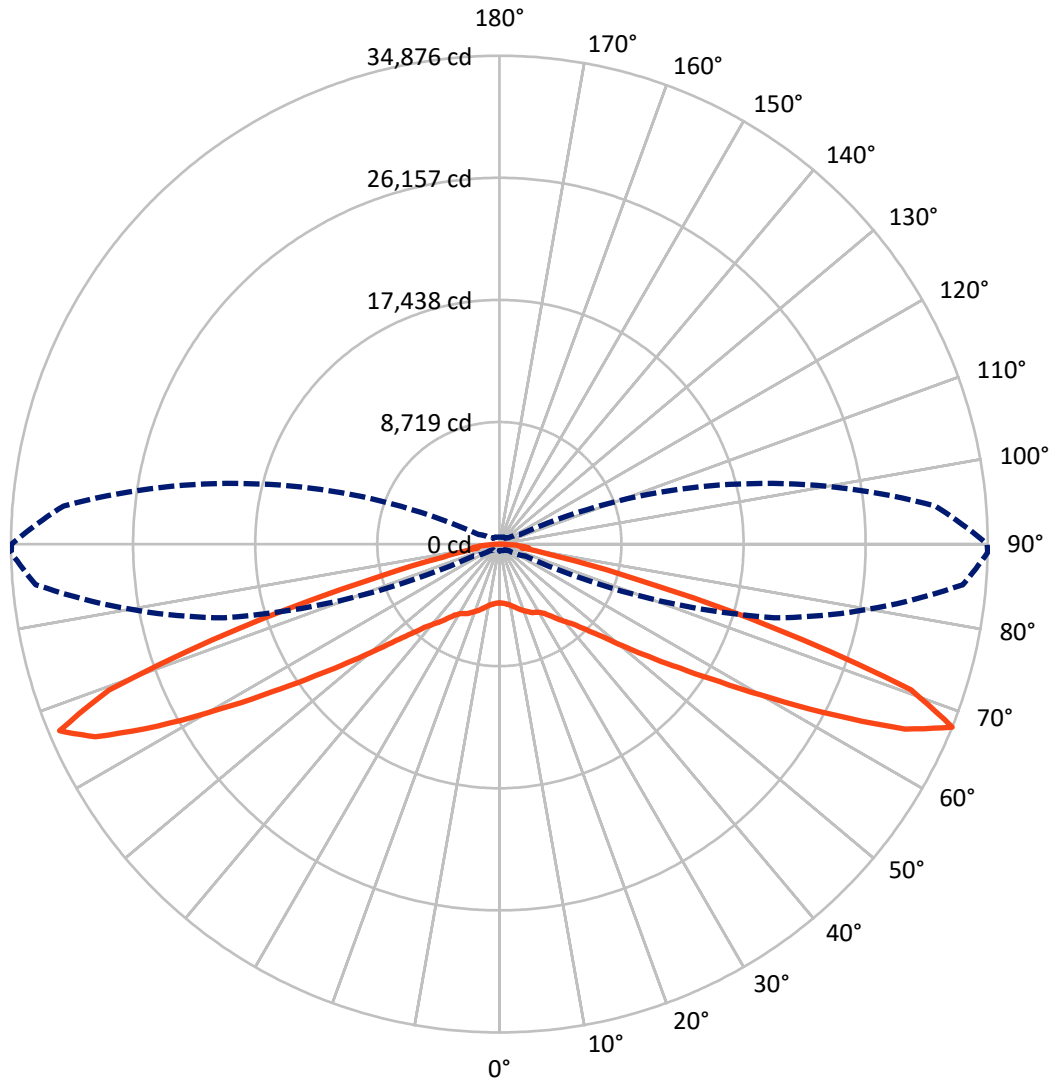
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	12392.6	0.0	12392.6
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	12611.7	0.0	12611.7
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	25004.3	0.0	25004.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.0	1.7
10°-20°	1370.7	5.5
20°-30°	2317.2	9.3
30°-40°	3180.0	12.7
40°-50°	4055.2	16.2
50°-60°	5087.9	20.3
60°-70°	6136.4	24.5
70°-80°	2220.0	8.9
80°-90°	215.9	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°	25004.3	100.0
0°-180°	25004.3	100.0

**Coefficient of Utilization**



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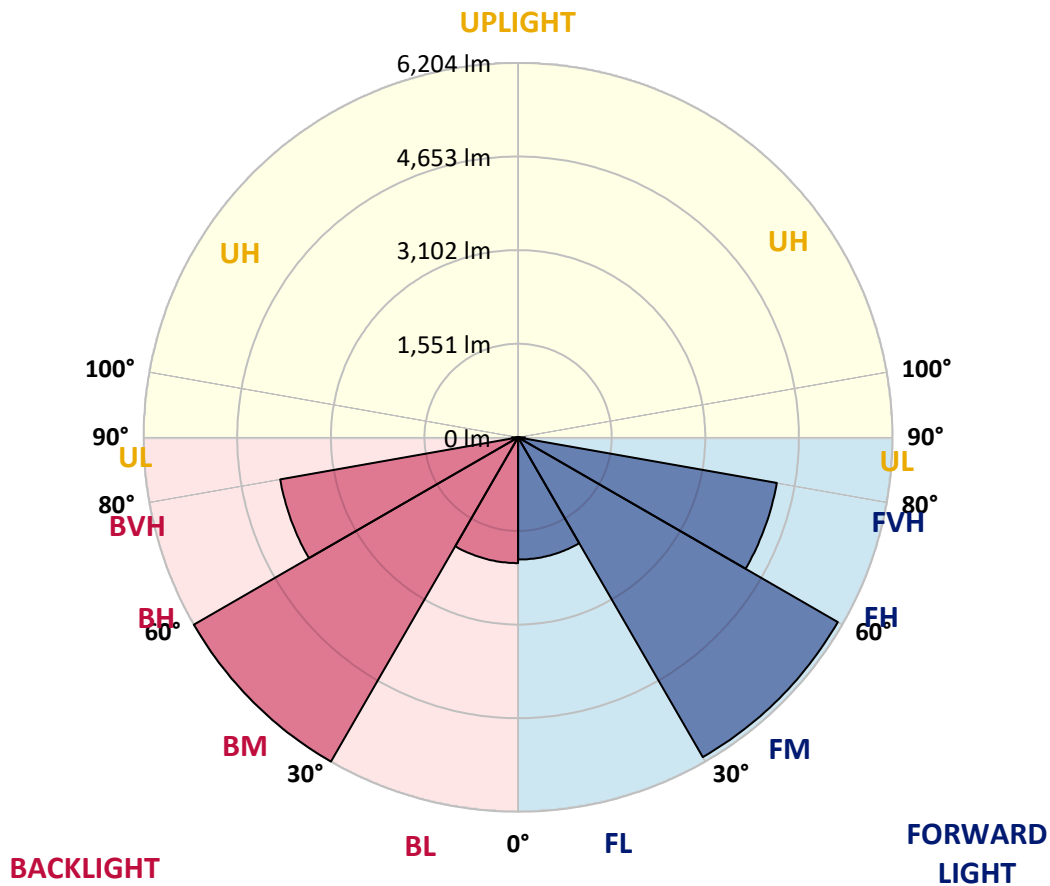
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2025.2	8.1			
FM (30°-60°)	6119.0	24.5			
FH (60°-80°)	4353.6	17.4			G2/5000
FVH (80°-90°)	113.9	0.5			G2/225
BL (0°-30°)	2083.7	8.3	B3/2500		
BM (30°-60°)	6204.1	24.8	B4/8500		
BH (60°-80°)	4002.8	16.0	B4/5000		G4/5000
BVH (80°-90°)	102.0	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°	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8
2.5°	4209.3	4205.7	4196.8	4223.7	4218.3	4220.1	4230.9	4223.7	4211.1	4189.6	4220.1
5°	4327.9	4326.1	4306.3	4322.5	4304.5	4291.9	4290.2	4272.2	4257.8	4234.5	4266.8
7.5°	4442.8	4441.0	4424.8	4453.6	4439.2	4424.8	4408.7	4372.8	4338.6	4304.5	4340.4
10°	4530.8	4529.0	4525.4	4566.7	4570.3	4575.7	4568.5	4507.4	4448.2	4406.9	4442.8
12.5°	4581.1	4586.5	4595.4	4670.9	4708.6	4744.5	4753.5	4703.2	4604.4	4545.2	4588.3
15°	4547.0	4557.7	4602.6	4739.1	4843.3	4924.1	4958.2	4916.9	4789.4	4690.6	4739.1
17.5°	4383.5	4392.5	4480.5	4688.8	4918.7	5105.4	5161.1	5136.0	4994.1	4873.8	4920.5
20°	4157.3	4177.0	4272.2	4563.1	4906.1	5231.1	5380.2	5371.2	5216.8	5031.8	5087.5
22.5°	3952.5	3975.9	4076.5	4397.9	4821.7	5263.5	5601.1	5624.4	5419.7	5189.8	5234.7
25°	3722.7	3744.2	3873.5	4202.2	4676.2	5238.3	5789.6	5895.6	5649.6	5371.2	5412.5
27.5°	3487.4	3503.6	3631.1	3981.3	4485.9	5191.6	5938.7	6193.7	5875.8	5496.9	5525.7
30°	3280.9	3302.5	3419.2	3760.4	4277.6	5098.3	6060.8	6511.5	6136.2	5638.8	5662.1
32.5°	3081.6	3099.5	3227.0	3543.1	4056.7	4954.6	6170.3	6885.1	6522.3	5902.8	5902.8
35°	2830.2	2862.5	3006.2	3334.8	3848.4	4764.2	6249.4	7319.7	7050.3	6292.5	6294.3
37.5°	2598.5	2616.5	2767.3	3099.5	3629.3	4548.7	6256.5	7770.4	7718.3	6788.1	6791.7
40°	2334.5	2357.9	2519.5	2848.1	3377.9	4322.5	6188.3	8190.6	8418.7	7298.1	7278.4
42.5°	2067.0	2101.1	2255.5	2577.0	3106.7	4045.9	6006.9	8591.1	9307.6	7888.9	7840.4
45°	1808.4	1829.9	1984.4	2287.8	2796.1	3715.5	5716.0	8975.4	10363.5	8786.8	8716.8
47.5°	1517.4	1526.4	1686.3	1977.2	2474.6	3347.4	5299.4	9318.4	11523.6	9975.6	9855.3
50°	1258.9	1271.4	1397.1	1646.7	2081.3	2911.0	4780.4	9519.5	13001.5	11597.2	11388.9
52.5°	1018.2	1030.8	1131.4	1330.7	1720.4	2413.5	4137.5	9472.8	14501.0	13610.3	13306.8
55°	822.5	831.5	899.7	1055.9	1354.0	1919.7	3377.9	9054.4	16165.7	16239.4	15585.7
57.5°	695.0	698.6	745.3	840.4	1057.7	1479.7	2607.5	8066.7	17911.2	19593.9	18520.0
60°	621.3	623.1	644.7	704.0	835.0	1129.6	1910.7	6493.6	19719.6	23790.7	22318.1
62.5°	574.7	574.7	592.6	626.7	693.2	869.2	1404.3	4663.7	21018.0	28357.4	26893.8
65°	529.8	529.8	542.3	571.1	607.0	709.3	1054.1	3008.0	21655.5	32175.2	31850.2
67.5°	472.3	474.1	483.1	513.6	545.9	592.6	799.1	2034.6	20332.0	33231.2	34876.1
70°	418.4	420.2	432.8	452.5	479.5	511.8	624.9	1402.5	14799.1	27676.8	31184.0
72.5°	359.2	366.3	375.3	396.9	413.0	436.4	510.0	908.7	8610.8	17803.5	20613.9
75°	294.5	303.5	314.3	335.8	346.6	355.6	420.2	648.3	4142.9	9022.1	10273.7
77.5°	228.1	237.0	249.6	269.4	276.6	287.3	321.4	468.7	1984.4	3999.2	4311.7
80°	152.6	156.2	167.0	190.4	202.9	210.1	237.0	319.7	862.0	1605.4	1591.1
82.5°	93.4	95.2	98.8	113.1	118.5	125.7	154.4	195.7	411.2	1824.5	2092.1
85°	34.1	32.3	30.5	39.5	46.7	53.9	71.8	98.8	179.6	1253.5	1402.5
87.5°	0.0	0.0	0.0	1.8	3.6	3.6	7.2	14.4	43.1	468.7	321.4
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°	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8	4196.8
2.5°	4211.1	4191.4	4216.5	4234.5	4274.0	4288.4	4291.9	4279.4	4279.4	4257.8	4261.4
5°	4259.6	4247.1	4288.4	4318.9	4376.3	4397.9	4412.3	4403.3	4408.7	4394.3	4397.9
7.5°	4333.3	4322.5	4394.3	4453.6	4512.8	4538.0	4550.5	4543.4	4545.2	4527.2	4532.6
10°	4435.6	4439.2	4525.4	4602.6	4681.6	4706.8	4712.2	4690.6	4672.7	4640.3	4642.1
12.5°	4575.7	4593.6	4715.8	4802.0	4882.8	4918.7	4879.2	4800.2	4726.5	4670.9	4663.7
15°	4728.3	4760.6	4936.6	5046.2	5134.2	5116.2	4999.5	4821.7	4676.2	4593.6	4577.5
17.5°	4911.5	4960.0	5180.9	5312.0	5387.4	5272.5	5028.2	4762.4	4559.5	4448.2	4426.6
20°	5083.9	5161.1	5439.5	5610.1	5619.0	5360.4	5015.7	4642.1	4387.1	4250.6	4221.9
22.5°	5241.9	5340.7	5710.6	5927.9	5811.2	5400.0	4938.4	4471.5	4178.8	4019.0	3993.8
25°	5414.3	5554.4	6026.7	6229.6	6003.3	5383.8	4776.8	4259.6	3927.4	3764.0	3746.0
27.5°	5532.8	5708.8	6344.5	6538.5	6161.4	5292.2	4568.5	4028.0	3697.5	3543.1	3518.0
30°	5669.3	5893.8	6694.7	6874.3	6258.3	5157.5	4345.8	3812.5	3483.8	3316.8	3298.9
32.5°	5917.1	6199.1	7129.3	7229.9	6288.9	4990.5	4132.1	3604.2	3261.2	3094.2	3069.0
35°	6315.8	6646.2	7739.9	7626.7	6265.5	4807.3	3929.2	3359.9	3033.1	2876.9	2851.7
37.5°	6818.6	7229.9	8420.5	7984.1	6200.9	4606.2	3688.6	3155.2	2828.4	2670.3	2656.0
40°	7287.3	7793.7	9183.7	8293.0	6069.8	4358.4	3456.9	2941.5	2607.5	2440.5	2408.2
42.5°	7874.6	8548.0	10067.2	8560.5	5854.3	4062.1	3196.5	2677.5	2330.9	2180.1	2140.6
45°	8767.1	9603.9	11094.4	8817.3	5532.8	3697.5	2869.7	2356.1	2027.5	1873.0	1842.5
47.5°	9880.5	10923.8	12207.8	8970.0	5044.4	3313.2	2499.7	2016.7	1688.0	1513.9	1499.5
50°	11444.6	12843.5	13402.0	8943.1	4498.5	2857.1	2083.1	1612.6	1337.9	1212.2	1192.4
52.5°	13349.9	15253.5	14693.2	8619.8	3918.4	2338.1	1623.4	1266.0	1061.3	971.5	955.4
55°	15740.1	18139.3	16052.6	7926.6	3185.7	1790.4	1275.0	998.5	858.4	804.5	797.3
57.5°	18699.6	21876.4	17361.7	6759.4	2395.6	1366.6	982.3	824.3	757.8	725.5	723.7
60°	22605.5	25843.3	18498.5	5252.7	1715.0	1045.2	811.7	736.3	684.2	662.6	660.9
62.5°	27249.4	29445.6	19206.0	3577.2	1289.4	833.2	714.7	668.0	637.5	624.9	623.1
65°	32022.6	31722.7	18868.4	2343.5	978.7	707.5	641.1	616.0	589.0	576.4	576.4
67.5°	34842.0	31241.4	16277.1	1627.0	775.8	621.3	578.2	554.9	510.0	499.2	499.2
70°	30860.7	25315.3	10668.8	1190.6	628.5	544.1	502.8	470.5	452.5	441.8	440.0
72.5°	20411.0	16472.8	5672.9	826.1	524.4	463.3	425.6	413.0	391.5	380.7	378.9
75°	10158.8	8652.1	2907.4	596.2	436.4	371.7	355.6	350.2	332.2	317.9	314.3
77.5°	4234.5	3852.0	1355.8	432.8	332.2	299.9	285.5	285.5	265.8	249.6	242.4
80°	1596.5	1422.3	641.1	296.3	246.0	222.7	213.7	206.5	190.4	170.6	159.8
82.5°	2135.2	1395.3	314.3	185.0	161.6	143.7	131.1	125.7	116.7	107.7	100.6
85°	1382.8	991.3	141.9	95.2	80.8	61.1	53.9	50.3	44.9	39.5	35.9
87.5°	281.9	332.2	43.1	18.0	10.8	5.4	5.4	1.8	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)