

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: P641677

Luminaire Tested: GWS-SA6B-735-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641677  
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-SA6B-735-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

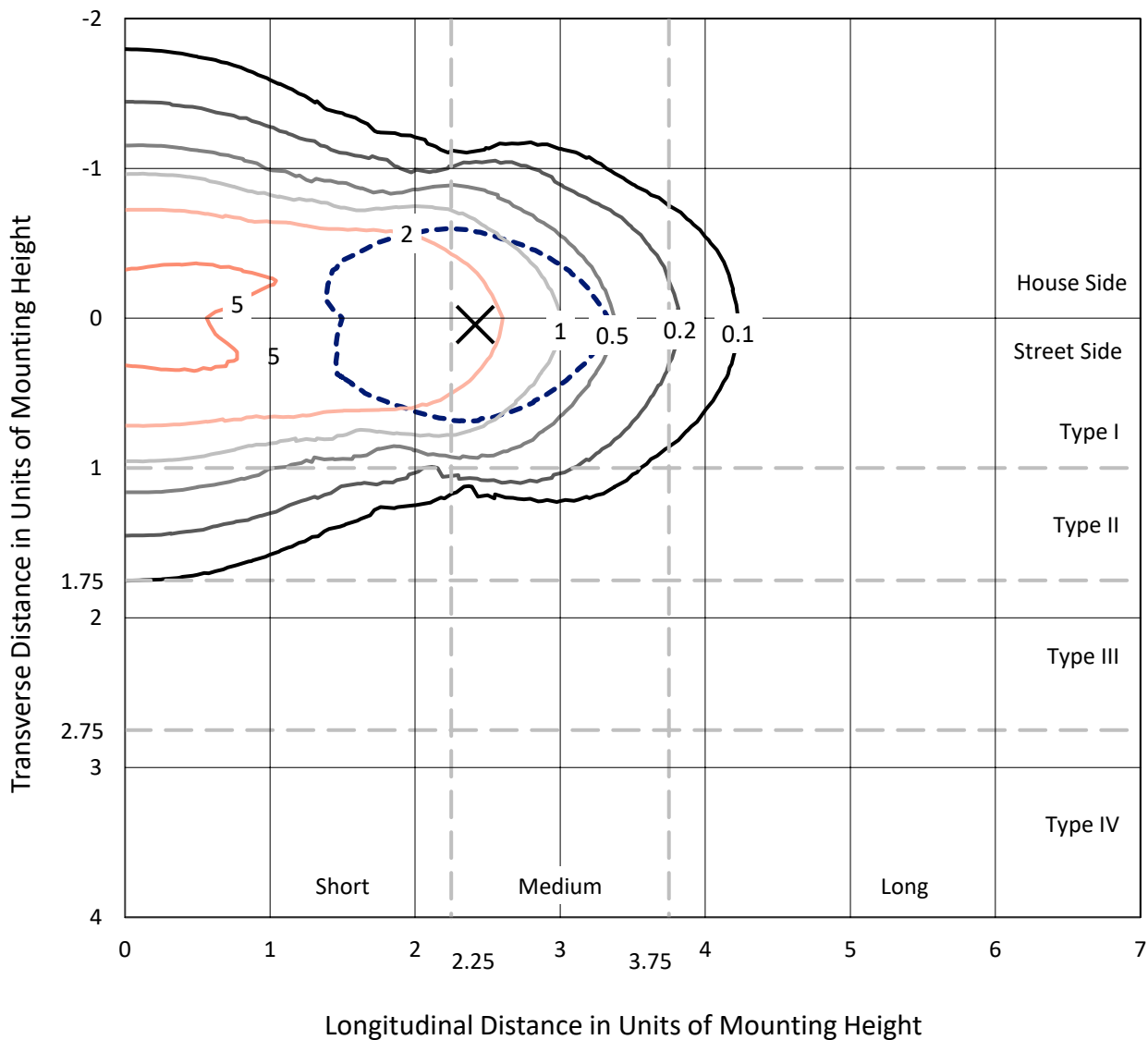
Lumens per Lamp: N/A  
Luminaire Lumens: 20844.2 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

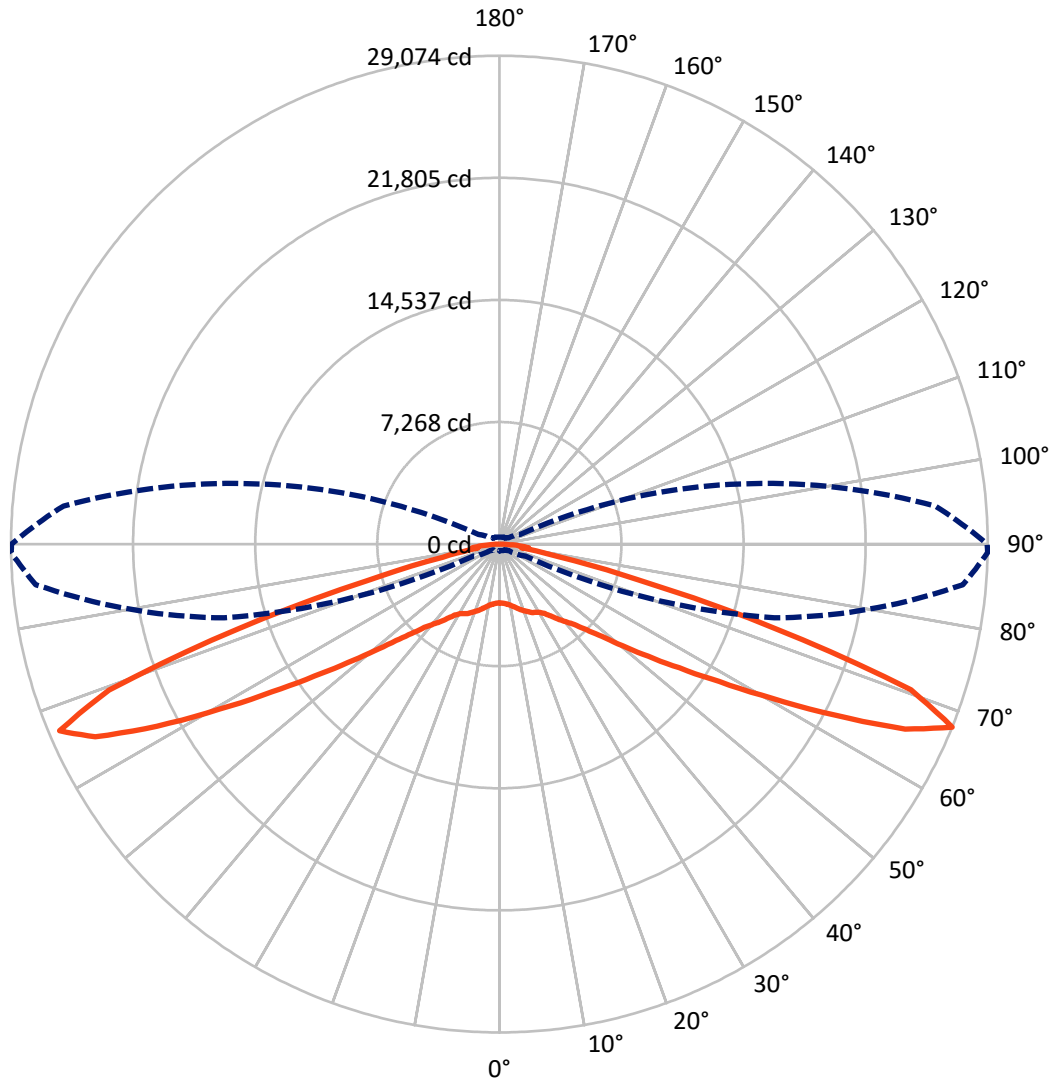
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	10330.8	0.0	10330.8
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	10513.4	0.0	10513.4
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	20844.2	0.0	20844.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.9	1.7
10°-20°	1142.7	5.5
20°-30°	1931.7	9.3
30°-40°	2650.9	12.7
40°-50°	3380.5	16.2
50°-60°	4241.4	20.3
60°-70°	5115.5	24.5
70°-80°	1850.6	8.9
80°-90°	180.0	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°	20844.2	100.0
0°-180°	20844.2	100.0

**Coefficient of Utilization**



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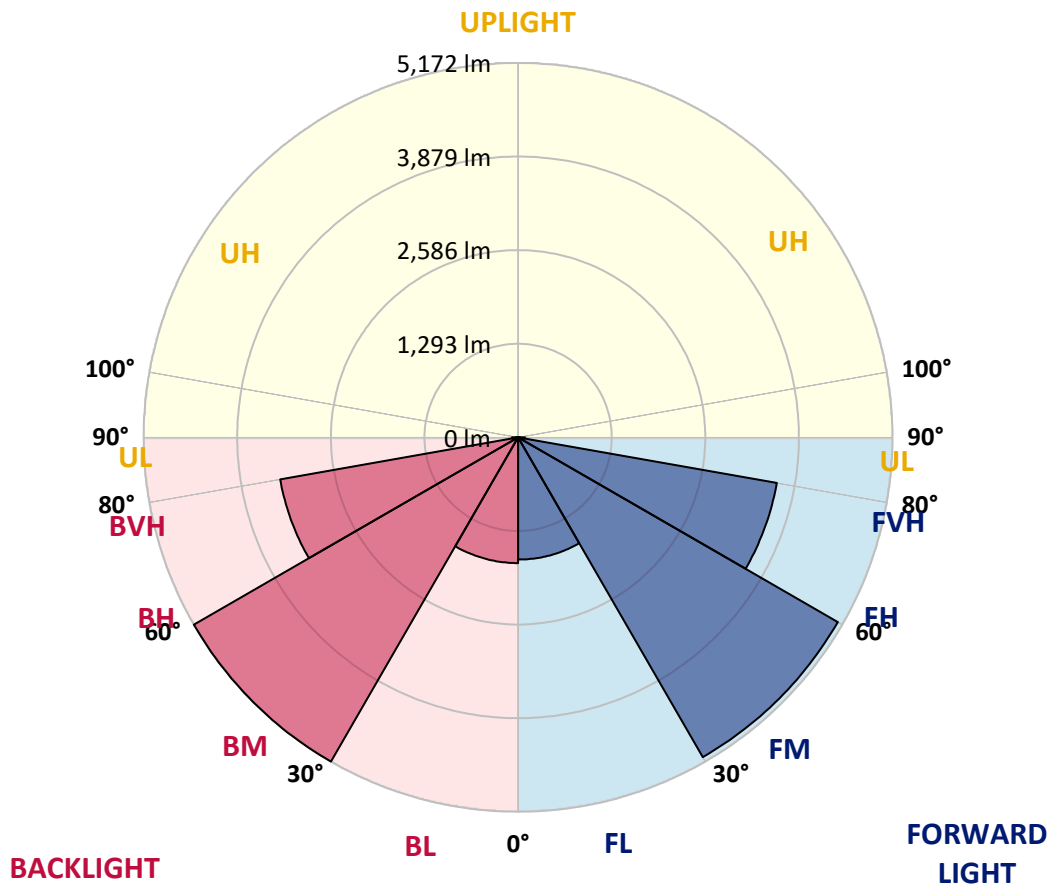
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.2	8.1			
FM (30°-60°)	5101.0	24.5			
FH (60°-80°)	3629.3	17.4			G2/5000
FVH (80°-90°)	95.0	0.5			G1/100
BL (0°-30°)	1737.0	8.3	B3/2500		
BM (30°-60°)	5171.9	24.8	B4/8500		
BH (60°-80°)	3336.8	16.0	B4/5000		G4/5000
BVH (80°-90°)	85.0	0.4			G1/100
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°	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5
2.5°	3509.0	3506.0	3498.5	3521.0	3516.5	3518.0	3527.0	3521.0	3510.5	3492.5	3518.0
5°	3607.8	3606.3	3589.8	3603.3	3588.4	3577.9	3576.4	3561.4	3549.4	3530.0	3556.9
7.5°	3703.6	3702.1	3688.7	3712.6	3700.6	3688.7	3675.2	3645.2	3616.8	3588.4	3618.3
10°	3777.0	3775.5	3772.5	3806.9	3809.9	3814.4	3808.4	3757.5	3708.1	3673.7	3703.6
12.5°	3818.9	3823.4	3830.9	3893.7	3925.2	3955.1	3962.6	3920.7	3838.4	3789.0	3824.9
15°	3790.4	3799.4	3836.9	3950.6	4037.5	4104.8	4133.3	4098.8	3992.5	3910.2	3950.6
17.5°	3654.2	3661.7	3735.1	3908.7	4100.3	4256.0	4302.4	4281.5	4163.2	4062.9	4101.8
20°	3465.6	3482.1	3561.4	3803.9	4089.9	4360.8	4485.1	4477.6	4348.8	4194.6	4241.1
22.5°	3294.9	3314.4	3398.2	3666.2	4019.5	4387.8	4669.2	4688.7	4518.0	4326.4	4363.8
25°	3103.3	3121.3	3229.1	3503.0	3898.2	4366.8	4826.4	4914.7	4709.6	4477.6	4512.0
27.5°	2907.2	2920.7	3027.0	3318.9	3739.6	4327.9	4950.6	5163.2	4898.2	4582.4	4606.3
30°	2735.1	2753.0	2850.3	3134.8	3565.9	4250.0	5052.4	5428.2	5115.3	4700.6	4720.1
32.5°	2568.9	2583.9	2690.1	2953.6	3381.8	4130.3	5143.8	5739.6	5437.2	4920.7	4920.7
35°	2359.3	2386.2	2506.0	2780.0	3208.1	3971.6	5209.6	6101.8	5877.3	5245.6	5247.0
37.5°	2166.2	2181.2	2306.9	2583.9	3025.5	3791.9	5215.6	6477.6	6434.2	5658.7	5661.7
40°	1946.1	1965.6	2100.3	2374.3	2815.9	3603.3	5158.7	6827.9	7018.0	6083.9	6067.4
42.5°	1723.1	1751.5	1880.3	2148.2	2589.8	3372.8	5007.5	7161.7	7759.0	6576.4	6536.0
45°	1507.5	1525.5	1654.2	1907.2	2330.9	3097.3	4765.0	7482.1	8639.3	7324.9	7266.5
47.5°	1265.0	1272.5	1405.7	1648.2	2062.9	2790.4	4417.7	7768.0	9606.4	8315.9	8215.6
50°	1049.4	1059.9	1164.7	1372.8	1735.0	2426.7	3985.1	7935.7	10838.4	9667.7	9494.1
52.5°	848.8	859.3	943.1	1109.3	1434.1	2012.0	3449.1	7896.8	12088.4	11345.9	11092.9
55°	685.6	693.1	750.0	880.2	1128.8	1600.3	2815.9	7548.0	13476.2	13537.5	12992.6
57.5°	579.3	582.3	621.3	700.6	881.7	1233.5	2173.7	6724.6	14931.3	16334.0	15438.7
60°	518.0	519.5	537.4	586.8	696.1	941.6	1592.8	5413.2	16438.8	19832.5	18604.9
62.5°	479.0	479.0	494.0	522.5	577.8	724.6	1170.7	3887.8	17521.1	23639.4	22419.3
65°	441.6	441.6	452.1	476.1	506.0	591.3	878.7	2507.5	18052.5	26822.1	26551.1
67.5°	393.7	395.2	402.7	428.1	455.1	494.0	666.2	1696.1	16949.2	27702.3	29073.6
70°	348.8	350.3	360.8	377.2	399.7	426.7	521.0	1169.2	12336.9	23072.0	25995.7
72.5°	299.4	305.4	312.9	330.8	344.3	363.8	425.2	757.5	7178.2	14841.4	17184.3
75°	245.5	253.0	262.0	279.9	288.9	296.4	350.3	540.4	3453.6	7521.0	8564.4
77.5°	190.1	197.6	208.1	224.6	230.5	239.5	268.0	390.7	1654.2	3333.9	3594.3
80°	127.2	130.2	139.2	158.7	169.2	175.2	197.6	266.5	718.6	1338.3	1326.4
82.5°	77.8	79.3	82.3	94.3	98.8	104.8	128.7	163.2	342.8	1521.0	1744.0
85°	28.4	26.9	25.4	32.9	38.9	44.9	59.9	82.3	149.7	1044.9	1169.2
87.5°	0.0	0.0	0.0	1.5	3.0	3.0	6.0	12.0	35.9	390.7	268.0
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°	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5	3498.5
2.5°	3510.5	3494.0	3515.0	3530.0	3562.9	3574.9	3577.9	3567.4	3567.4	3549.4	3552.4
5°	3550.9	3540.4	3574.9	3600.3	3648.2	3666.2	3678.2	3670.7	3675.2	3663.2	3666.2
7.5°	3612.3	3603.3	3663.2	3712.6	3762.0	3783.0	3793.4	3787.5	3789.0	3774.0	3778.5
10°	3697.6	3700.6	3772.5	3836.9	3902.7	3923.7	3928.2	3910.2	3895.2	3868.3	3869.8
12.5°	3814.4	3829.4	3931.2	4003.0	4070.4	4100.3	4067.4	4001.5	3940.2	3893.7	3887.8
15°	3941.6	3968.6	4115.3	4206.6	4280.0	4265.0	4167.7	4019.5	3898.2	3829.4	3815.9
17.5°	4094.3	4134.8	4318.9	4428.2	4491.1	4395.2	4191.7	3970.1	3800.9	3708.1	3690.1
20°	4238.1	4302.4	4534.5	4676.7	4684.2	4468.6	4181.2	3869.8	3657.2	3543.4	3519.5
22.5°	4369.8	4452.1	4760.5	4941.7	4844.4	4501.5	4116.8	3727.6	3483.6	3350.3	3329.4
25°	4513.5	4630.3	5024.0	5193.2	5004.5	4488.1	3982.1	3550.9	3274.0	3137.7	3122.8
27.5°	4612.3	4759.0	5289.0	5450.6	5136.3	4411.7	3808.4	3357.8	3082.4	2953.6	2932.7
30°	4726.1	4913.2	5580.9	5730.6	5217.1	4299.4	3622.8	3178.2	2904.2	2765.0	2750.0
32.5°	4932.7	5167.7	5943.2	6027.0	5242.6	4160.2	3444.6	3004.5	2718.6	2579.4	2558.4
35°	5265.0	5540.5	6452.1	6357.8	5223.1	4007.5	3275.5	2800.9	2528.5	2398.2	2377.3
37.5°	5684.2	6027.0	7019.5	6655.7	5169.2	3839.9	3074.9	2630.3	2357.8	2226.1	2214.1
40°	6074.9	6497.1	7655.8	6913.2	5059.9	3633.3	2881.8	2452.1	2173.7	2034.4	2007.5
42.5°	6564.4	7125.8	8392.3	7136.3	4880.3	3386.3	2664.7	2232.1	1943.1	1817.4	1784.4
45°	7308.4	8006.1	9248.6	7350.4	4612.3	3082.4	2392.2	1964.1	1690.1	1561.4	1535.9
47.5°	8236.6	9106.4	10176.7	7477.6	4205.1	2762.0	2083.8	1681.2	1407.2	1262.0	1250.0
50°	9540.5	10706.7	11172.2	7455.1	3750.0	2381.8	1736.5	1344.3	1115.3	1010.5	994.0
52.5°	11128.8	12715.7	12248.6	7185.7	3266.5	1949.1	1353.3	1055.4	884.7	809.9	796.4
55°	13121.4	15121.4	13381.8	6607.8	2655.7	1492.5	1062.9	832.3	715.6	670.7	664.7
57.5°	15588.4	18236.7	14473.2	5634.8	1997.0	1139.2	818.9	687.1	631.7	604.8	603.3
60°	18844.5	21543.6	15420.8	4378.8	1429.7	871.3	676.7	613.8	570.4	552.4	550.9
62.5°	22715.8	24546.6	16010.6	2982.1	1074.9	694.6	595.8	556.9	531.4	521.0	519.5
65°	26694.8	26444.8	15729.2	1953.6	815.9	589.8	534.4	513.5	491.0	480.5	480.5
67.5°	29045.1	26043.6	13569.0	1356.3	646.7	518.0	482.0	462.6	425.2	416.2	416.2
70°	25726.3	21103.5	8893.8	992.5	524.0	453.6	419.2	392.2	377.2	368.3	366.8
72.5°	17015.1	13732.1	4729.1	688.6	437.1	386.2	354.8	344.3	326.3	317.4	315.9
75°	8468.6	7212.6	2423.7	497.0	363.8	309.9	296.4	291.9	276.9	265.0	262.0
77.5°	3530.0	3211.1	1130.2	360.8	276.9	250.0	238.0	238.0	221.6	208.1	202.1
80°	1330.8	1185.6	534.4	247.0	205.1	185.6	178.1	172.2	158.7	142.2	133.2
82.5°	1780.0	1163.2	262.0	154.2	134.7	119.8	109.3	104.8	97.3	89.8	83.8
85°	1152.7	826.4	118.3	79.3	67.4	50.9	44.9	41.9	37.4	32.9	29.9
87.5°	235.0	276.9	35.9	15.0	9.0	4.5	4.5	1.5	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)