

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: P642978

Luminaire Tested: GWS-SA6E-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33943.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

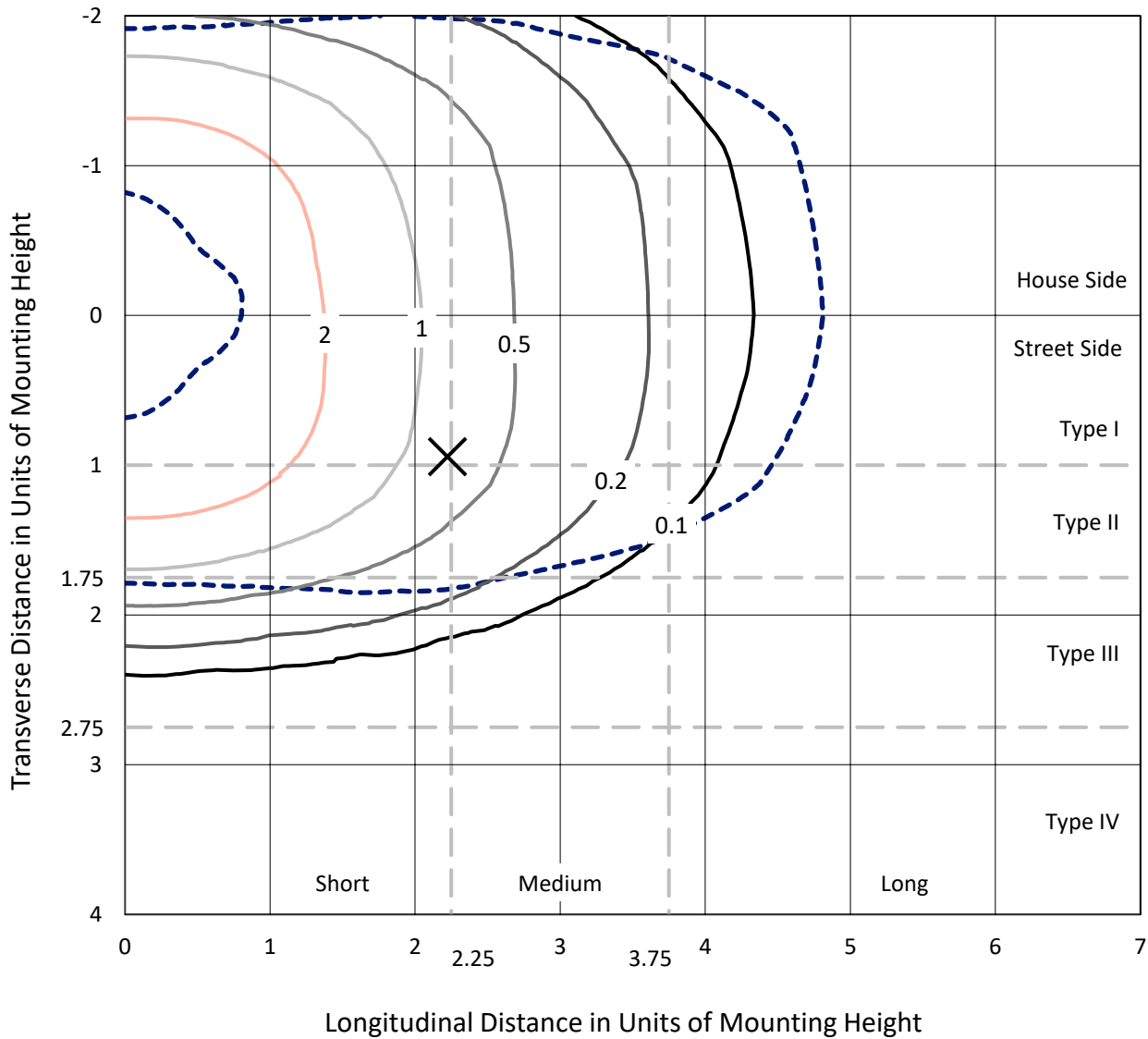
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

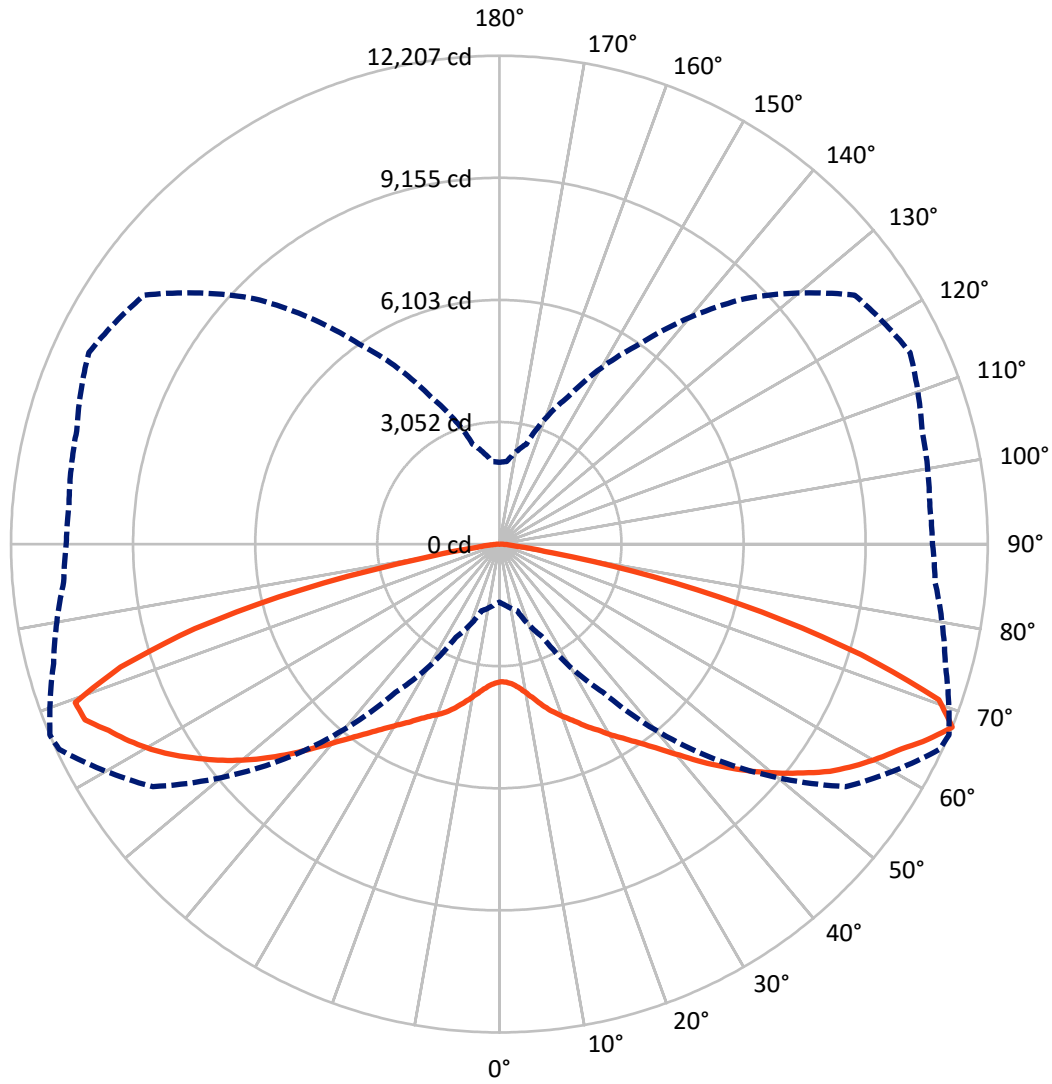
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16784.6	0.0	16784.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	17159.2	0.0	17159.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	33943.7	0.0	33943.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.2	1.0
10°-20°	1139.2	3.4
20°-30°	2235.2	6.6
30°-40°	3808.0	11.2
40°-50°	6114.8	18.0
50°-60°	8308.8	24.5
60°-70°	7947.9	23.4
70°-80°	3778.7	11.1
80°-90°	273.8	0.8
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°	33943.7	100.0
0°-180°	33943.7	100.0

Coefficient of Utilization



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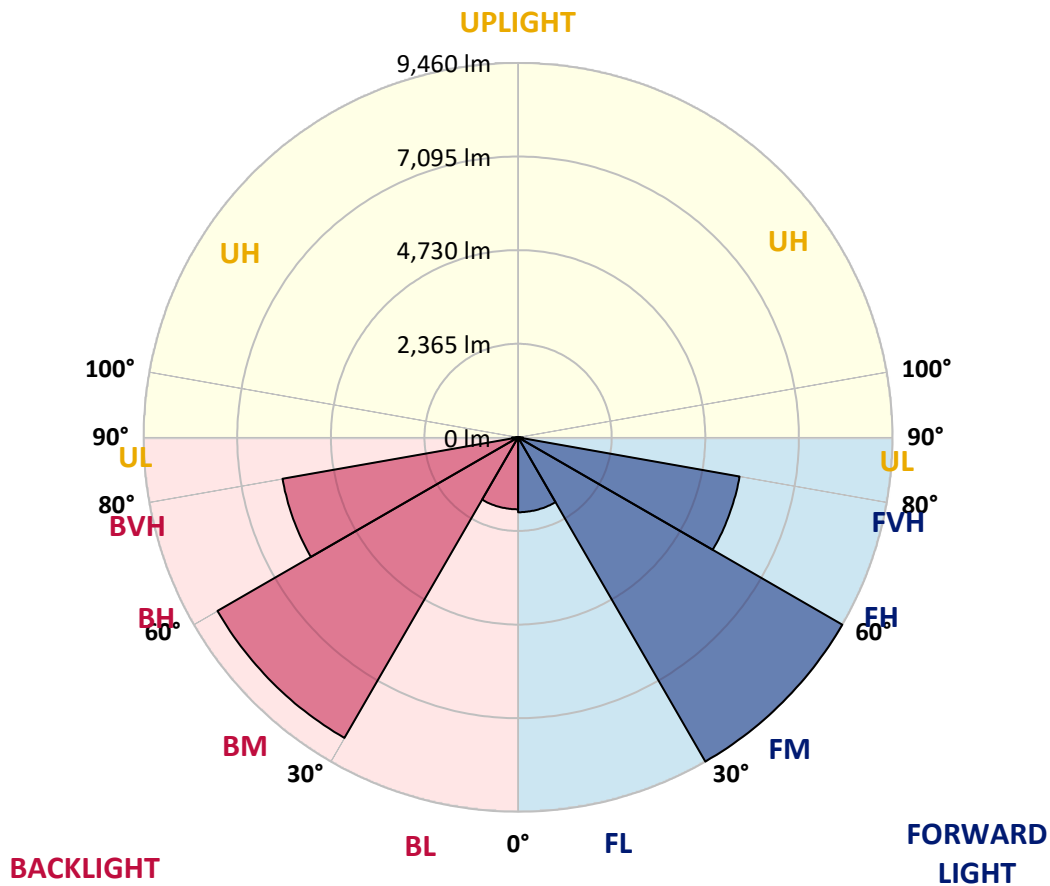
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1892.6	5.6			
FM (30°-60°)	9460.4	27.9			
FH (60°-80°)	5683.1	16.7			G3/7500
FVH (80°-90°)	123.1	0.4			G2/225
BL (0°-30°)	1819.0	5.4	B3/2500		
BM (30°-60°)	8771.2	25.8	B5		
BH (60°-80°)	6043.6	17.8	B5		G5
BVH (80°-90°)	150.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3366.1	3370.8	3377.9	3392.1	3406.3	3427.5	3448.8	3446.4	3455.9	3463.0	3470.1
5°	3347.2	3351.9	3363.7	3382.6	3403.9	3439.4	3484.3	3503.2	3517.4	3543.4	3567.0
7.5°	3387.3	3396.8	3413.4	3439.4	3472.4	3517.4	3578.8	3611.9	3633.2	3680.5	3720.6
10°	3441.7	3453.5	3486.6	3536.3	3585.9	3654.5	3732.5	3782.1	3796.3	3857.7	3933.4
12.5°	3493.7	3507.9	3562.3	3652.1	3741.9	3834.1	3926.3	3987.8	3992.5	4075.2	4160.3
15°	3576.5	3588.3	3661.6	3777.4	3914.5	4042.1	4155.6	4198.1	4217.0	4276.1	4382.5
17.5°	3758.5	3772.7	3867.2	3992.5	4136.7	4271.4	4384.9	4420.3	4420.3	4470.0	4557.4
20°	3954.7	3968.8	4094.1	4254.9	4429.8	4566.9	4654.4	4621.3	4609.4	4623.6	4685.1
22.5°	4174.5	4200.5	4321.1	4507.8	4722.9	4890.7	4935.6	4836.4	4803.3	4770.2	4784.4
25°	4455.8	4486.5	4604.7	4803.3	5013.7	5190.9	5216.9	5063.3	5044.4	4928.6	4886.0
27.5°	4779.6	4803.3	4949.8	5146.0	5342.2	5491.1	5519.5	5330.4	5266.6	5105.8	5006.6
30°	5198.0	5219.3	5347.0	5540.8	5711.0	5815.0	5850.4	5590.4	5540.8	5294.9	5141.3
32.5°	5654.2	5663.7	5793.7	5980.5	6131.7	6231.0	6181.4	5878.8	5805.5	5529.0	5318.6
35°	6176.7	6176.7	6344.5	6495.8	6616.3	6644.7	6550.1	6205.0	6119.9	5819.7	5557.3
37.5°	6689.6	6703.8	6859.8	7039.4	7145.8	7141.1	6968.5	6590.3	6493.4	6167.2	5876.4
40°	7245.1	7275.8	7431.8	7632.8	7734.4	7720.2	7455.5	7034.7	6935.4	6550.1	6266.5
42.5°	7755.7	7805.3	7987.3	8193.0	8304.1	8294.6	8018.1	7545.3	7448.4	7013.4	6729.8
45°	8162.3	8214.3	8441.2	8727.2	8904.5	8887.9	8609.0	8074.8	7956.6	7500.4	7188.4
47.5°	8519.2	8573.6	8826.5	9129.1	9410.4	9438.7	9183.4	8609.0	8483.7	8022.8	7670.6
50°	8793.4	8819.4	9103.1	9434.0	9760.2	9918.6	9696.4	9145.6	8994.3	8538.1	8141.0
52.5°	8772.1	8807.6	9157.4	9606.5	10043.9	10303.9	10150.2	9651.5	9504.9	9008.5	8620.8
55°	8339.5	8375.0	8791.0	9445.8	10202.2	10585.2	10568.6	10133.7	10027.3	9488.4	9119.6
57.5°	7708.4	7786.4	8200.1	8906.9	9994.2	10809.7	10875.9	10573.4	10462.3	9958.8	9613.6
60°	6578.5	6682.5	7160.0	8077.2	9327.6	10734.1	11204.5	10944.5	10875.9	10396.1	10060.4
62.5°	4779.6	4855.3	5491.1	6694.3	8339.5	10195.1	11481.1	11327.4	11275.4	10788.5	10464.6
65°	2862.6	3035.1	3545.7	4734.7	6727.4	9178.7	11329.8	11828.5	11774.2	11192.7	10809.7
67.5°	1449.0	1527.0	1727.9	2567.1	4524.3	7594.9	10571.0	12140.6	12206.7	11537.8	10932.7
70°	898.3	919.5	976.3	1267.0	2259.8	4990.0	8644.5	11327.4	11651.3	11483.4	10613.5
72.5°	721.0	725.7	735.1	789.5	1085.0	2333.1	5465.1	8871.4	9455.3	10724.6	10157.3
75°	598.0	600.4	602.8	619.3	676.1	952.6	2659.3	6096.3	6779.4	9114.9	9417.4
77.5°	479.9	468.0	477.5	484.6	498.8	531.9	917.2	3252.6	3945.2	5982.8	7282.9
80°	312.0	307.3	326.2	333.3	347.5	368.8	489.3	1103.9	1340.3	2177.1	2316.5
82.5°	167.8	158.4	198.6	191.5	198.6	215.1	288.4	404.2	453.9	657.1	555.5
85°	52.0	52.0	54.4	63.8	78.0	75.6	125.3	198.6	219.8	281.3	208.0
87.5°	9.5	9.5	9.5	9.5	9.5	11.8	26.0	40.2	54.4	96.9	73.3
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°	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0	3437.0
2.5°	3484.3	3463.0	3474.8	3481.9	3479.5	3474.8	3451.2	3446.4	3434.6	3415.7	3411.0
5°	3588.3	3564.6	3567.0	3559.9	3536.3	3505.5	3453.5	3427.5	3406.3	3382.6	3380.3
7.5°	3751.4	3725.4	3718.3	3685.2	3619.0	3548.1	3465.4	3418.1	3382.6	3351.9	3347.2
10°	3959.4	3933.4	3909.8	3831.7	3723.0	3628.5	3519.7	3451.2	3399.2	3361.3	3354.3
12.5°	4191.0	4169.8	4110.7	3997.2	3867.2	3756.1	3645.0	3559.9	3484.3	3427.5	3420.4
15°	4448.7	4401.4	4311.6	4165.0	4042.1	3952.3	3817.6	3701.7	3581.2	3505.5	3489.0
17.5°	4628.4	4588.2	4481.8	4340.0	4243.1	4165.0	4006.7	3841.2	3678.1	3567.0	3543.4
20°	4756.0	4713.4	4592.9	4488.9	4458.2	4392.0	4207.6	4016.1	3827.0	3689.9	3659.2
22.5°	4848.2	4803.3	4680.4	4628.4	4670.9	4659.1	4479.4	4262.0	4037.4	3874.3	3836.5
25°	4935.6	4893.1	4784.4	4803.3	4916.7	4952.2	4758.4	4505.4	4250.1	4058.7	4013.8
27.5°	5018.4	4964.0	4914.4	5018.4	5179.1	5245.3	5039.7	4753.6	4477.1	4280.9	4245.4
30°	5146.0	5082.2	5075.1	5226.4	5481.7	5538.4	5311.5	5025.5	4751.3	4552.7	4507.8
32.5°	5306.8	5247.7	5252.4	5479.3	5774.8	5822.1	5628.2	5361.1	5086.9	4888.4	4826.9
35°	5524.2	5451.0	5491.1	5770.1	6067.9	6155.4	5999.4	5777.2	5510.1	5306.8	5238.2
37.5°	5824.4	5718.1	5800.8	6093.9	6394.1	6524.1	6403.6	6238.1	5973.4	5767.7	5703.9
40°	6207.4	6119.9	6153.0	6476.9	6786.5	6942.5	6866.9	6703.8	6441.4	6226.3	6153.0
42.5°	6661.2	6573.8	6562.0	6907.1	7216.7	7453.1	7379.8	7230.9	6959.1	6713.2	6642.3
45°	7105.6	7025.3	7041.8	7394.0	7741.5	7999.2	7925.9	7751.0	7455.5	7171.8	7115.1
47.5°	7568.9	7502.8	7516.9	7890.4	8273.4	8531.0	8438.8	8226.1	7881.0	7578.4	7509.8
50°	8044.1	7968.4	7989.7	8382.1	8795.8	9039.2	8897.4	8583.0	8202.4	7907.0	7847.9
52.5°	8516.8	8427.0	8481.4	8852.5	9280.3	9474.2	9211.8	8831.2	8462.5	8169.3	8103.2
55°	9060.5	8966.0	8906.9	9304.0	9727.1	9807.5	9448.2	9003.8	8566.5	8233.2	8193.0
57.5°	9556.9	9476.5	9365.4	9762.6	10074.6	10015.5	9630.2	8956.5	8313.5	7885.7	7829.0
60°	10001.3	9932.8	9835.8	10173.9	10315.7	10183.3	9483.6	8396.3	7689.5	7242.7	7216.7
62.5°	10410.2	10337.0	10247.1	10535.5	10516.6	10209.3	8817.0	7535.8	6590.3	6110.5	6067.9
65°	10734.1	10667.9	10641.9	10868.8	10838.1	9701.1	7779.3	6127.0	4815.1	4273.8	4257.2
67.5°	10826.3	10800.3	10939.7	11325.0	10845.2	8679.9	6101.0	4063.4	2586.0	2073.1	2042.3
70°	10481.2	10478.8	10878.3	11429.1	9861.8	6630.5	3600.1	1832.0	1300.1	1153.5	1134.6
72.5°	10032.0	10024.9	10341.7	9859.5	7313.6	3628.5	1515.2	981.0	813.2	773.0	773.0
75°	9294.5	9275.6	9514.4	7500.4	4113.0	1366.3	803.7	673.7	638.2	631.1	631.1
77.5°	7576.0	7417.7	7041.8	4635.4	1434.8	671.3	531.9	529.5	508.2	505.9	505.9
80°	2491.5	2491.5	2895.7	1768.1	633.5	413.7	375.8	394.8	373.5	359.3	356.9
82.5°	406.6	560.2	796.6	505.9	342.8	257.7	231.7	245.8	257.7	205.7	205.7
85°	160.7	210.4	307.3	236.4	158.4	104.0	111.1	122.9	108.7	94.6	92.2
87.5°	61.5	75.6	108.7	56.7	33.1	18.9	11.8	11.8	9.5	9.5	9.5
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)