

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: P641658

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641658
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-SA6B-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21496.9 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

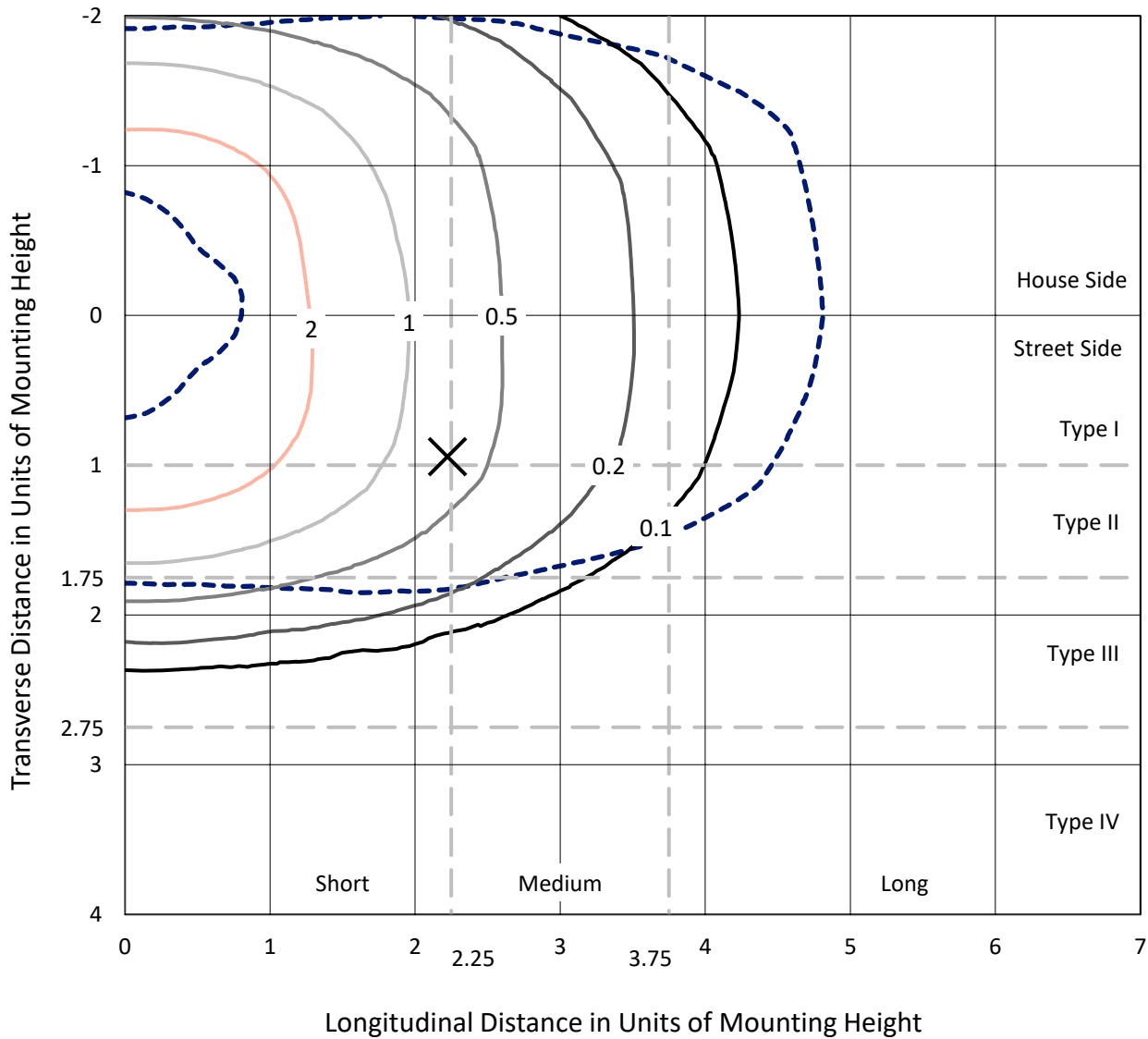
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

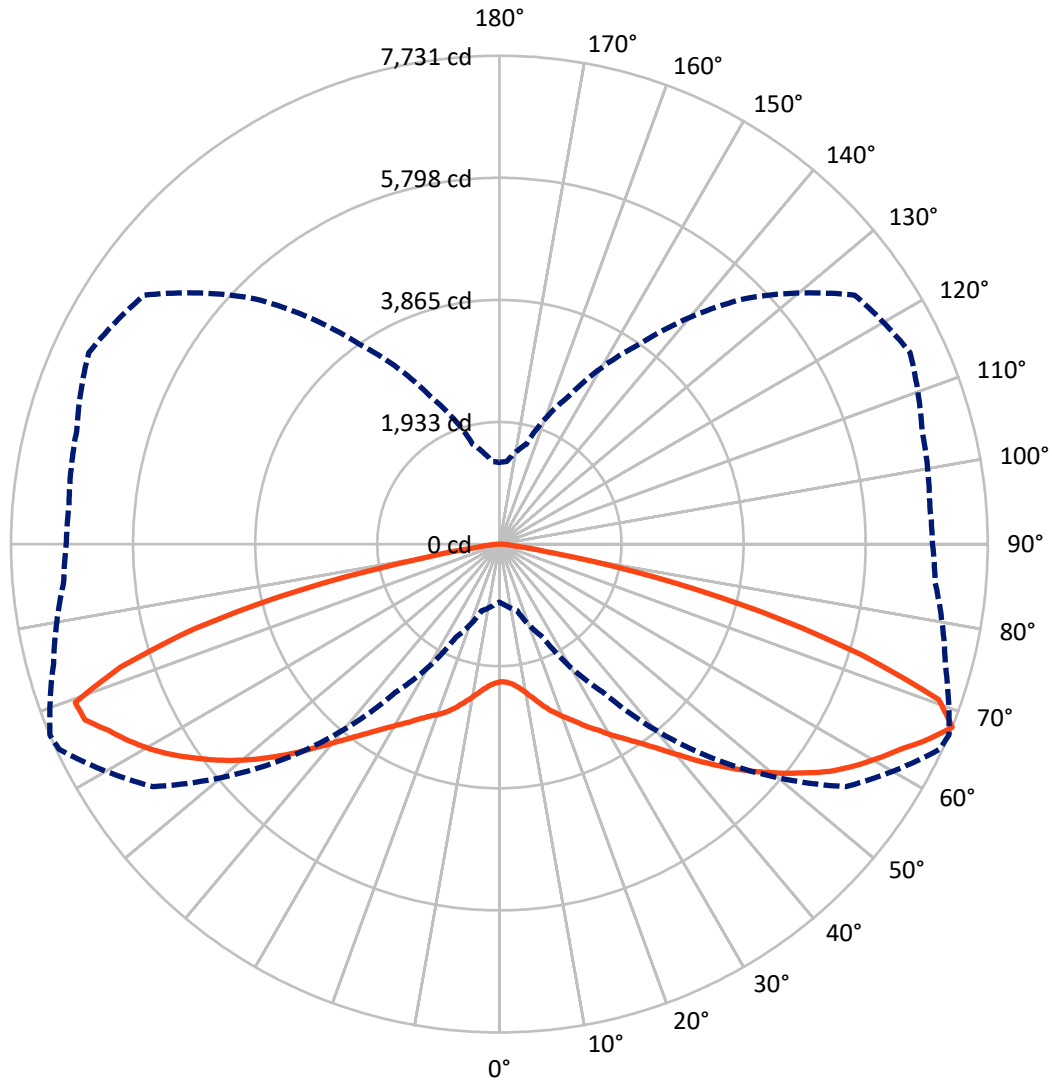
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	10629.8	0.0	10629.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	10867.1	0.0	10867.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	21496.9	0.0	21496.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.0
10°-20°	721.5	3.4
20°-30°	1415.5	6.6
30°-40°	2411.6	11.2
40°-50°	3872.6	18.0
50°-60°	5262.0	24.5
60°-70°	5033.5	23.4
70°-80°	2393.1	11.1
80°-90°	173.4	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°	21496.9	100.0
0°-180°	21496.9	100.0

Coefficient of Utilization



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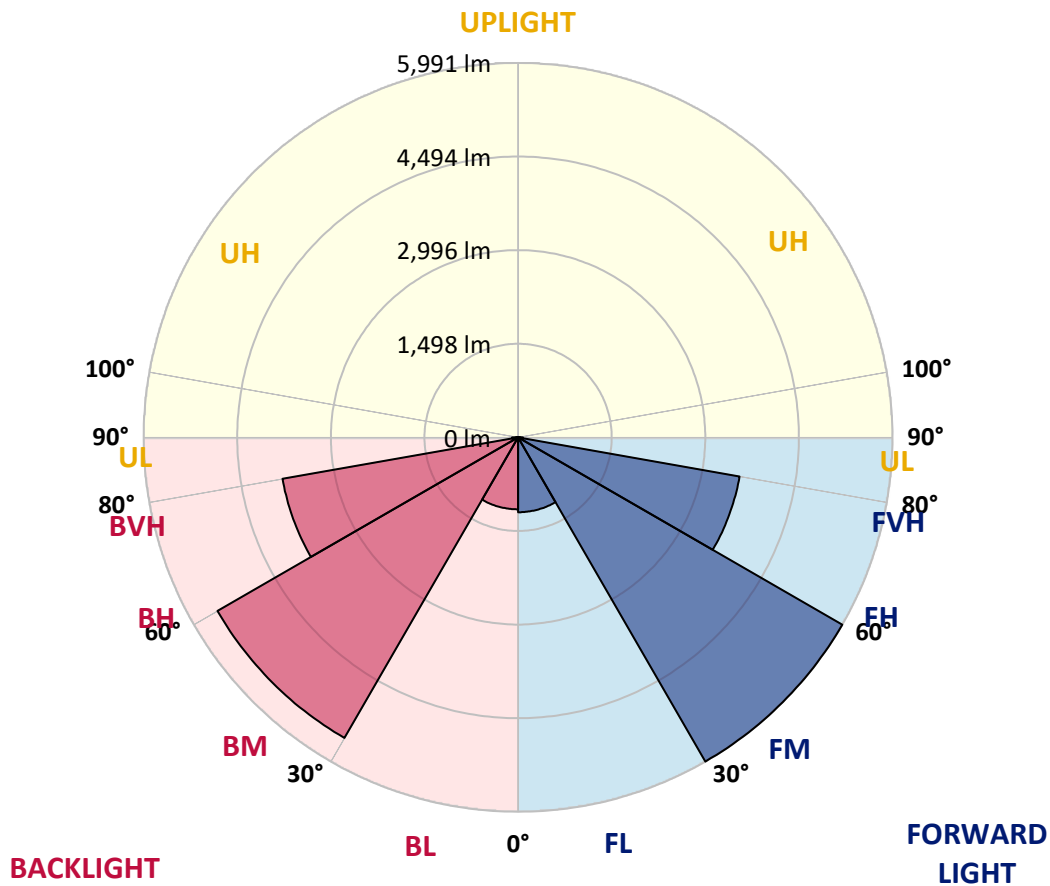
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1198.6	5.6			
FM (30°-60°)	5991.4	27.9			
FH (60°-80°)	3599.1	16.7			G2/5000
FVH (80°-90°)	77.9	0.4			G1/100
BL (0°-30°)	1152.0	5.4	B3/2500		
BM (30°-60°)	5554.9	25.8	B4/8500		
BH (60°-80°)	3827.5	17.8	B4/5000		G4/5000
BVH (80°-90°)	95.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2.5°	2131.8	2134.8	2139.3	2148.2	2157.2	2170.7	2184.2	2182.7	2188.7	2193.1	2197.6
5°	2119.8	2122.8	2130.3	2142.2	2155.7	2178.2	2206.6	2218.6	2227.6	2244.0	2259.0
7.5°	2145.2	2151.2	2161.7	2178.2	2199.1	2227.6	2266.5	2287.5	2300.9	2330.9	2356.3
10°	2179.7	2187.2	2208.1	2239.6	2271.0	2314.4	2363.8	2395.2	2404.2	2443.2	2491.1
12.5°	2212.6	2221.6	2256.0	2312.9	2369.8	2428.2	2486.6	2525.5	2528.5	2580.9	2634.8
15°	2265.0	2272.5	2318.9	2392.3	2479.1	2559.9	2631.8	2658.7	2670.7	2708.1	2775.5
17.5°	2380.3	2389.3	2449.1	2528.5	2619.8	2705.1	2777.0	2799.4	2799.4	2830.9	2886.3
20°	2504.5	2513.5	2592.9	2694.7	2805.4	2892.3	2947.7	2926.7	2919.2	2928.2	2967.1
22.5°	2643.8	2660.2	2736.6	2854.8	2991.1	3097.4	3125.8	3062.9	3042.0	3021.0	3030.0
25°	2821.9	2841.4	2916.2	3042.0	3175.2	3287.5	3303.9	3206.6	3194.7	3121.3	3094.4
27.5°	3027.0	3042.0	3134.8	3259.0	3383.3	3477.6	3495.6	3375.8	3335.4	3233.6	3170.7
30°	3292.0	3305.4	3386.3	3509.0	3616.8	3682.7	3705.1	3540.5	3509.0	3353.3	3256.0
32.5°	3580.9	3586.9	3669.2	3787.5	3883.3	3946.2	3914.7	3723.1	3676.7	3501.6	3368.3
35°	3911.7	3911.7	4018.0	4113.8	4190.2	4208.2	4148.3	3929.7	3875.8	3685.7	3519.5
37.5°	4236.6	4245.6	4344.4	4458.2	4525.5	4522.5	4413.2	4173.7	4112.3	3905.8	3721.6
40°	4588.4	4607.9	4706.7	4833.9	4898.3	4889.3	4721.6	4455.2	4392.3	4148.3	3968.6
42.5°	4911.8	4943.2	5058.5	5188.7	5259.1	5253.1	5077.9	4778.5	4717.1	4441.7	4262.0
45°	5169.2	5202.2	5345.9	5527.0	5639.3	5628.8	5452.2	5113.9	5039.0	4750.1	4552.5
47.5°	5395.3	5429.7	5589.9	5781.5	5959.7	5977.6	5816.0	5452.2	5372.8	5080.9	4857.9
50°	5568.9	5585.4	5765.1	5974.6	6181.2	6281.5	6140.8	5792.0	5696.2	5407.3	5155.8
52.5°	5555.5	5577.9	5799.5	6083.9	6360.9	6525.6	6428.2	6112.4	6019.6	5705.2	5459.7
55°	5281.5	5304.0	5567.5	5982.1	6461.2	6703.7	6693.2	6417.8	6350.4	6009.1	5775.5
57.5°	4881.8	4931.2	5193.2	5640.8	6329.4	6845.9	6887.8	6696.2	6625.9	6307.0	6088.4
60°	4166.2	4232.1	4534.5	5115.3	5907.3	6798.0	7095.9	6931.2	6887.8	6583.9	6371.4
62.5°	3027.0	3074.9	3477.6	4239.6	5281.5	6456.7	7271.1	7173.8	7140.8	6832.4	6627.3
65°	1812.9	1922.2	2245.5	2998.6	4260.5	5813.0	7175.3	7491.1	7456.7	7088.4	6845.9
67.5°	917.7	967.1	1094.3	1625.8	2865.3	4810.0	6694.7	7688.7	7730.7	7307.0	6923.8
70°	568.9	582.3	618.3	802.4	1431.2	3160.2	5474.6	7173.8	7378.9	7272.6	6721.7
72.5°	456.6	459.6	465.6	500.0	687.1	1477.6	3461.1	5618.4	5988.1	6792.0	6432.7
75°	378.7	380.2	381.7	392.2	428.2	603.3	1684.2	3860.8	4293.5	5772.5	5964.2
77.5°	303.9	296.4	302.4	306.9	315.9	336.8	580.8	2059.9	2498.5	3789.0	4612.3
80°	197.6	194.6	206.6	211.1	220.1	233.5	309.9	699.1	848.8	1378.8	1467.1
82.5°	106.3	100.3	125.8	121.3	125.8	136.2	182.6	256.0	287.4	416.2	351.8
85°	32.9	32.9	34.4	40.4	49.4	47.9	79.3	125.8	139.2	178.1	131.7
87.5°	6.0	6.0	6.0	6.0	6.0	7.5	16.5	25.4	34.4	61.4	46.4
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°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2.5°	2206.6	2193.1	2200.6	2205.1	2203.6	2200.6	2185.7	2182.7	2175.2	2163.2	2160.2
5°	2272.5	2257.5	2259.0	2254.5	2239.6	2220.1	2187.2	2170.7	2157.2	2142.2	2140.8
7.5°	2375.8	2359.3	2354.8	2333.9	2292.0	2247.0	2194.6	2164.7	2142.2	2122.8	2119.8
10°	2507.5	2491.1	2476.1	2426.7	2357.8	2297.9	2229.1	2185.7	2152.7	2128.8	2124.3
12.5°	2654.2	2640.8	2603.3	2531.5	2449.1	2378.8	2308.4	2254.5	2206.6	2170.7	2166.2
15°	2817.4	2787.5	2730.6	2637.8	2559.9	2503.0	2417.7	2344.3	2268.0	2220.1	2209.6
17.5°	2931.2	2905.7	2838.4	2748.5	2687.2	2637.8	2537.5	2432.7	2329.4	2259.0	2244.0
20°	3012.0	2985.1	2908.7	2842.9	2823.4	2781.5	2664.7	2543.5	2423.7	2336.9	2317.4
22.5°	3070.4	3042.0	2964.1	2931.2	2958.1	2950.6	2836.9	2699.1	2556.9	2453.6	2429.7
25°	3125.8	3098.9	3030.0	3042.0	3113.8	3136.3	3013.5	2853.3	2691.7	2570.4	2542.0
27.5°	3178.2	3143.8	3112.3	3178.2	3280.0	3321.9	3191.7	3010.5	2835.4	2711.1	2688.7
30°	3259.0	3218.6	3214.1	3309.9	3471.6	3507.5	3363.8	3182.7	3009.0	2883.3	2854.8
32.5°	3360.8	3323.4	3326.4	3470.1	3657.2	3687.2	3564.4	3395.3	3221.6	3095.9	3056.9
35°	3498.6	3452.2	3477.6	3654.2	3842.9	3898.3	3799.5	3658.7	3489.6	3360.8	3317.4
37.5°	3688.7	3621.3	3673.7	3859.3	4049.5	4131.8	4055.5	3950.7	3783.0	3652.8	3612.3
40°	3931.2	3875.8	3896.8	4101.9	4298.0	4396.8	4348.9	4245.6	4079.4	3943.2	3896.8
42.5°	4218.6	4163.2	4155.8	4374.3	4570.4	4720.1	4673.7	4579.4	4407.3	4251.6	4206.7
45°	4500.1	4449.2	4459.7	4682.7	4902.8	5065.9	5019.5	4908.8	4721.6	4542.0	4506.1
47.5°	4793.5	4751.6	4760.6	4997.1	5239.6	5402.8	5344.4	5209.7	4991.1	4799.5	4756.1
50°	5094.4	5046.5	5060.0	5308.5	5570.4	5724.6	5634.8	5435.7	5194.7	5007.6	4970.1
52.5°	5393.8	5336.9	5371.3	5606.4	5877.3	6000.1	5833.9	5592.9	5359.4	5173.7	5131.8
55°	5738.1	5678.2	5640.8	5892.3	6160.3	6211.2	5983.6	5702.2	5425.2	5214.2	5188.7
57.5°	6052.5	6001.6	5931.2	6182.7	6380.3	6342.9	6098.9	5672.2	5265.1	4994.1	4958.2
60°	6333.9	6290.5	6229.1	6443.2	6533.0	6449.2	6006.1	5317.4	4869.8	4586.9	4570.4
62.5°	6592.9	6546.5	6489.6	6672.3	6660.3	6465.7	5583.9	4772.5	4173.7	3869.8	3842.9
65°	6798.0	6756.1	6739.6	6883.3	6863.9	6143.8	4926.7	3880.3	3049.4	2706.6	2696.2
67.5°	6856.4	6839.9	6928.3	7172.3	6868.4	5497.1	3863.8	2573.4	1637.8	1312.9	1293.4
70°	6637.8	6636.3	6889.3	7238.1	6245.6	4199.2	2280.0	1160.2	823.4	730.6	718.6
72.5°	6353.4	6348.9	6549.5	6244.1	4631.8	2297.9	959.6	621.3	515.0	489.5	489.5
75°	5886.3	5874.3	6025.5	4750.1	2604.8	865.3	509.0	426.7	404.2	399.7	399.7
77.5°	4798.0	4697.7	4459.7	2935.7	908.7	425.2	336.8	335.3	321.9	320.4	320.4
80°	1577.9	1577.9	1833.9	1119.8	401.2	262.0	238.0	250.0	236.5	227.5	226.1
82.5°	257.5	354.8	504.5	320.4	217.1	163.2	146.7	155.7	163.2	130.2	130.2
85°	101.8	133.2	194.6	149.7	100.3	65.9	70.4	77.8	68.9	59.9	58.4
87.5°	38.9	47.9	68.9	35.9	21.0	12.0	7.5	7.5	6.0	6.0	6.0
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)