

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: P641823

Luminaire Tested: GWS-SA6B-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641823
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-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21989.5 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

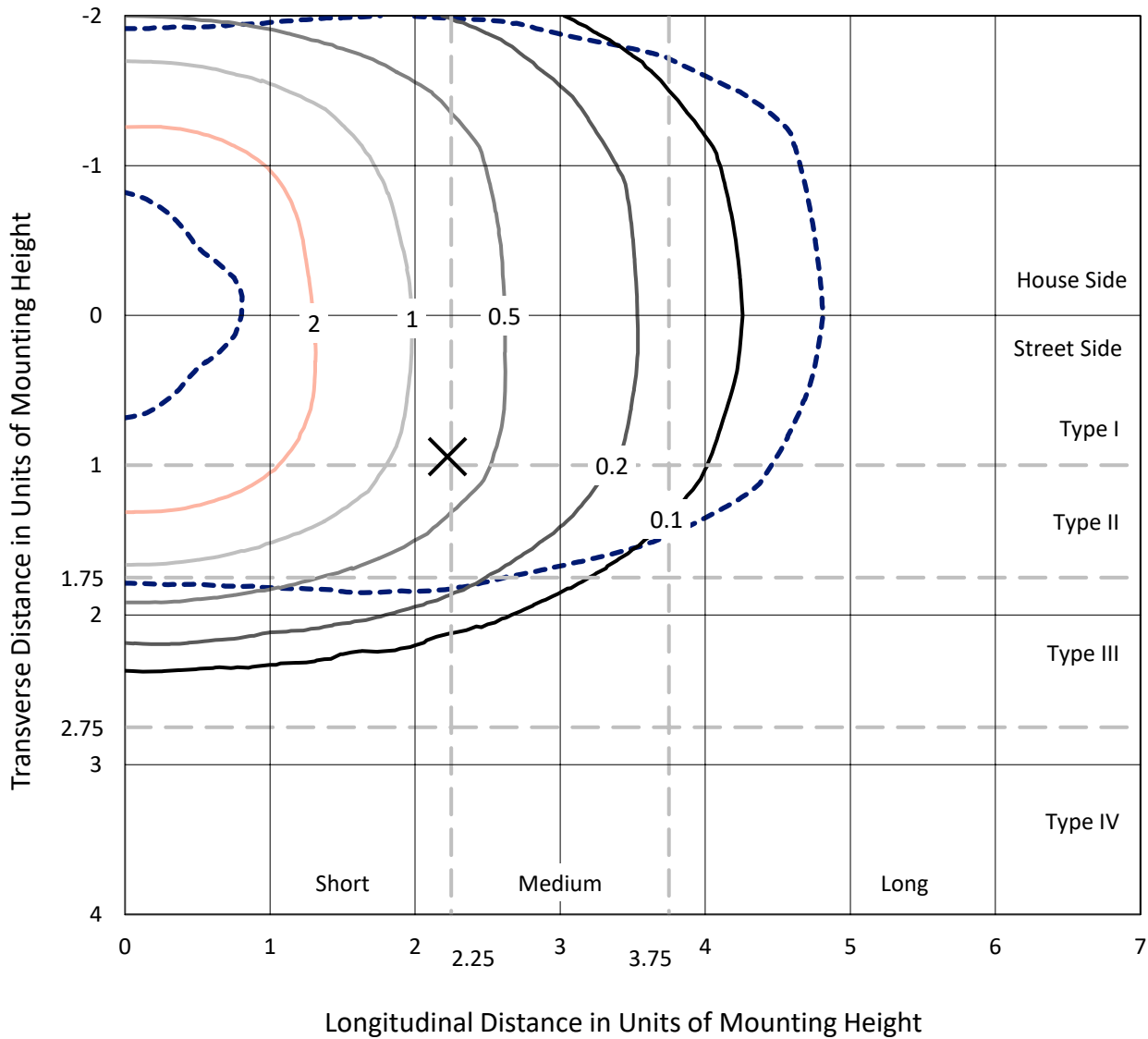
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

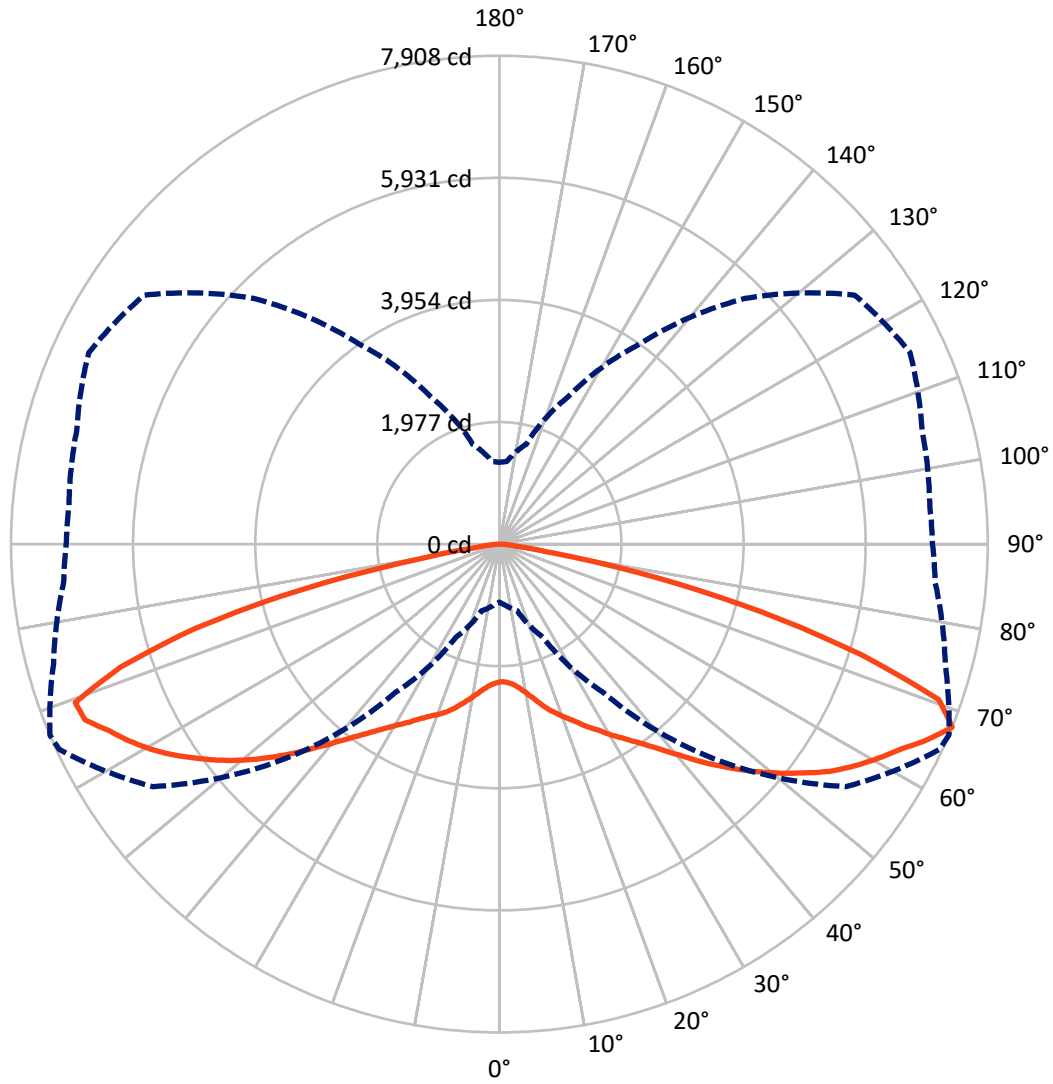
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	10873.4	0.0	10873.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	11116.1	0.0	11116.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	21989.5	0.0	21989.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	1.0
10°-20°	738.0	3.4
20°-30°	1448.0	6.6
30°-40°	2466.9	11.2
40°-50°	3961.3	18.0
50°-60°	5382.6	24.5
60°-70°	5148.8	23.4
70°-80°	2447.9	11.1
80°-90°	177.4	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°	21989.5	100.0
0°-180°	21989.5	100.0

Coefficient of Utilization



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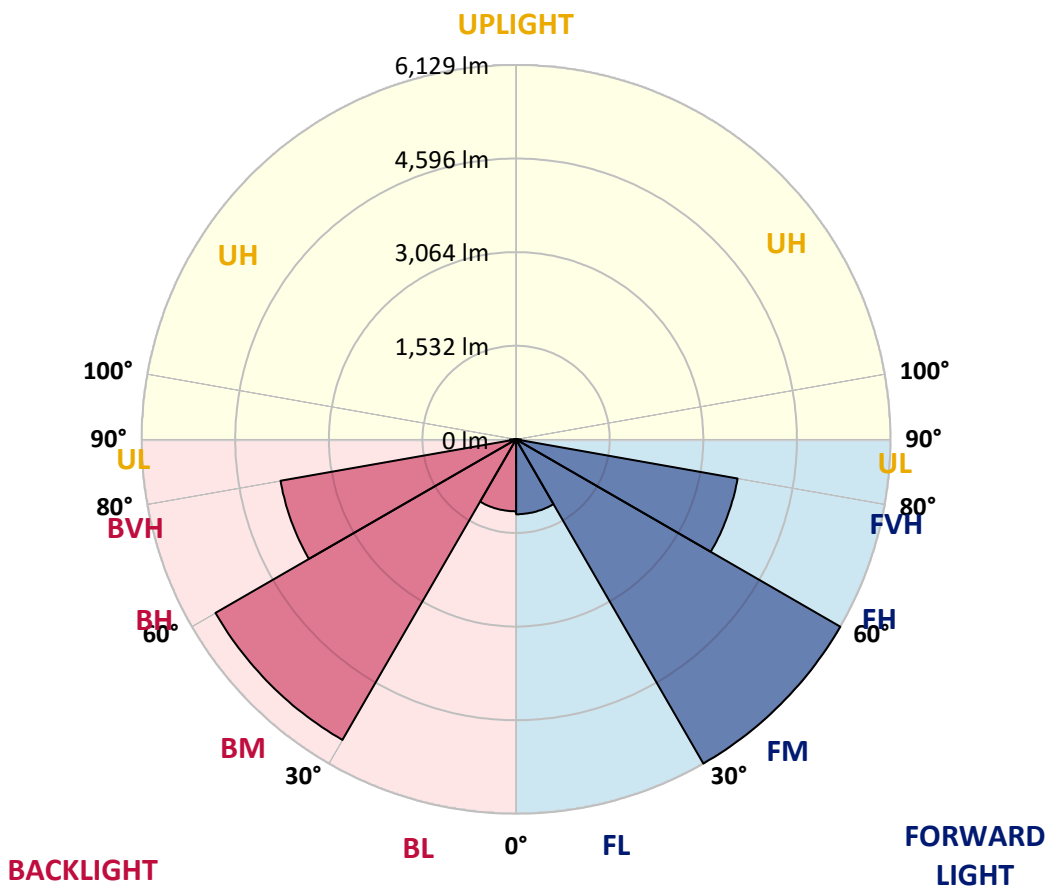
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.1	5.6			
FM (30°-60°)	6128.7	27.9			
FH (60°-80°)	3681.6	16.7			G2/5000
FVH (80°-90°)	79.7	0.4			G1/100
BL (0°-30°)	1178.4	5.4	B3/2500		
BM (30°-60°)	5682.2	25.8	B4/8500		
BH (60°-80°)	3915.2	17.8	B4/5000		G4/5000
BVH (80°-90°)	97.7	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°	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6
2.5°	2180.6	2183.7	2188.3	2197.5	2206.7	2220.4	2234.2	2232.7	2238.8	2243.4	2248.0
5°	2168.4	2171.4	2179.1	2191.3	2205.1	2228.1	2257.2	2269.4	2278.6	2295.5	2310.8
7.5°	2194.4	2200.5	2211.2	2228.1	2249.5	2278.6	2318.4	2339.9	2353.7	2384.3	2410.3
10°	2229.6	2237.3	2258.7	2290.9	2323.0	2367.4	2418.0	2450.1	2459.3	2499.1	2548.1
12.5°	2263.3	2272.5	2307.7	2365.9	2424.1	2483.8	2543.5	2583.4	2586.4	2640.0	2695.1
15°	2316.9	2324.6	2372.0	2447.1	2535.9	2618.6	2692.1	2719.6	2731.9	2770.2	2839.1
17.5°	2434.8	2444.0	2505.3	2586.4	2679.8	2767.1	2840.6	2863.6	2863.6	2895.8	2952.4
20°	2561.9	2571.1	2652.3	2756.4	2869.7	2958.5	3015.2	2993.8	2986.1	2995.3	3035.1
22.5°	2704.3	2721.2	2799.3	2920.3	3059.6	3168.3	3197.4	3133.1	3111.7	3090.2	3099.4
25°	2886.6	2906.5	2983.0	3111.7	3248.0	3362.8	3379.7	3280.1	3267.9	3192.8	3165.3
27.5°	3096.4	3111.7	3206.6	3333.7	3460.8	3557.3	3575.7	3453.2	3411.8	3307.7	3243.4
30°	3367.4	3381.2	3463.9	3589.4	3699.7	3767.1	3790.1	3621.6	3589.4	3430.2	3330.7
32.5°	3663.0	3669.1	3753.3	3874.3	3972.3	4036.6	4004.4	3808.4	3761.0	3581.8	3445.5
35°	4001.4	4001.4	4110.1	4208.1	4286.2	4304.6	4243.3	4019.8	3964.6	3770.1	3600.2
37.5°	4333.7	4342.9	4443.9	4560.3	4629.2	4626.2	4514.4	4269.4	4206.6	3995.3	3806.9
40°	4693.5	4713.4	4814.5	4944.7	5010.5	5001.3	4829.8	4557.2	4492.9	4243.3	4059.6
42.5°	5024.3	5056.5	5174.4	5307.6	5379.6	5373.5	5194.3	4888.0	4825.2	4543.5	4359.7
45°	5287.7	5321.4	5468.4	5653.7	5768.5	5757.8	5577.1	5231.0	5154.5	4858.9	4656.8
47.5°	5518.9	5554.1	5718.0	5914.0	6096.2	6114.6	5949.2	5577.1	5496.0	5197.3	4969.2
50°	5696.6	5713.4	5897.2	6111.6	6322.9	6425.5	6281.5	5924.7	5826.7	5531.2	5273.9
52.5°	5682.8	5705.8	5932.4	6223.3	6506.6	6675.1	6575.5	6252.4	6157.5	5835.9	5584.8
55°	5402.5	5425.5	5695.0	6119.2	6609.2	6857.3	6846.6	6564.8	6495.9	6146.8	5907.9
57.5°	4993.7	5044.2	5312.2	5770.1	6474.5	7002.8	7045.7	6849.7	6777.7	6451.5	6227.9
60°	4261.7	4329.1	4638.4	5232.6	6042.6	6953.8	7258.5	7090.1	7045.7	6734.8	6517.4
62.5°	3096.4	3145.4	3557.3	4336.7	5402.5	6604.6	7437.7	7338.2	7304.5	6989.0	6779.2
65°	1854.4	1966.2	2297.0	3067.3	4358.2	5946.2	7339.7	7662.8	7627.6	7250.9	7002.8
67.5°	938.7	989.2	1119.4	1663.0	2931.0	4920.2	6848.1	7864.9	7907.8	7474.4	7082.4
70°	581.9	595.7	632.4	820.8	1464.0	3232.6	5600.1	7338.2	7547.9	7439.2	6875.7
72.5°	467.1	470.1	476.2	511.5	702.9	1511.4	3540.4	5747.1	6125.3	6947.7	6580.1
75°	387.4	389.0	390.5	401.2	438.0	617.1	1722.8	3949.3	4391.9	5904.8	6100.8
77.5°	310.9	303.2	309.3	313.9	323.1	344.6	594.2	2107.1	2555.8	3875.8	4718.0
80°	202.1	199.1	211.3	215.9	225.1	238.9	317.0	715.1	868.3	1410.4	1500.7
82.5°	108.7	102.6	128.6	124.0	128.6	139.4	186.8	261.9	294.0	425.7	359.9
85°	33.7	33.7	35.2	41.3	50.5	49.0	81.2	128.6	142.4	182.2	134.8
87.5°	6.1	6.1	6.1	6.1	6.1	7.7	16.8	26.0	35.2	62.8	47.5
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°	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6	2226.6
2.5°	2257.2	2243.4	2251.1	2255.7	2254.1	2251.1	2235.7	2232.7	2225.0	2212.8	2209.7
5°	2324.6	2309.3	2310.8	2306.2	2290.9	2271.0	2237.3	2220.4	2206.7	2191.3	2189.8
7.5°	2430.2	2413.4	2408.8	2387.3	2344.5	2298.5	2244.9	2214.3	2191.3	2171.4	2168.4
10°	2565.0	2548.1	2532.8	2482.3	2411.9	2350.6	2280.2	2235.7	2202.1	2177.6	2173.0
12.5°	2715.1	2701.3	2663.0	2589.5	2505.3	2433.3	2361.3	2306.2	2257.2	2220.4	2215.8
15°	2882.0	2851.3	2793.2	2698.2	2618.6	2560.4	2473.1	2398.1	2320.0	2271.0	2260.2
17.5°	2998.4	2972.3	2903.4	2811.5	2748.7	2698.2	2595.6	2488.4	2382.8	2310.8	2295.5
20°	3081.0	3053.5	2975.4	2908.0	2888.1	2845.2	2725.8	2601.7	2479.2	2390.4	2370.5
22.5°	3140.8	3111.7	3032.0	2998.4	3025.9	3018.3	2901.9	2761.0	2615.5	2509.9	2485.4
25°	3197.4	3169.9	3099.4	3111.7	3185.2	3208.1	3082.6	2918.7	2753.3	2629.3	2600.2
27.5°	3251.0	3215.8	3183.6	3251.0	3355.2	3398.0	3264.8	3079.5	2900.3	2773.2	2750.3
30°	3333.7	3292.4	3287.8	3385.8	3551.2	3587.9	3440.9	3255.6	3078.0	2949.3	2920.3
32.5°	3437.8	3399.6	3402.6	3549.6	3741.0	3771.7	3646.1	3473.1	3295.4	3166.8	3127.0
35°	3578.7	3531.3	3557.3	3738.0	3930.9	3987.6	3886.5	3742.6	3569.5	3437.8	3393.4
37.5°	3773.2	3704.3	3757.9	3947.8	4142.3	4226.5	4148.4	4041.2	3869.7	3736.5	3695.1
40°	4021.3	3964.6	3986.1	4195.9	4396.5	4497.5	4448.5	4342.9	4172.9	4033.5	3986.1
42.5°	4315.3	4258.6	4251.0	4474.6	4675.2	4828.3	4780.8	4684.4	4508.2	4349.0	4303.0
45°	4603.2	4551.1	4561.8	4790.0	5015.1	5182.0	5134.6	5021.2	4829.8	4646.1	4609.3
47.5°	4903.3	4860.5	4869.6	5111.6	5359.7	5526.6	5466.9	5329.0	5105.5	4909.5	4865.0
50°	5211.1	5162.1	5175.9	5430.1	5698.1	5855.8	5763.9	5560.3	5313.7	5122.3	5084.0
52.5°	5517.4	5459.2	5494.4	5734.8	6012.0	6137.6	5967.6	5721.1	5482.2	5292.3	5249.4
55°	5869.6	5808.3	5770.1	6027.3	6301.4	6353.5	6120.7	5832.9	5549.6	5333.6	5307.6
57.5°	6191.2	6139.1	6067.1	6324.4	6526.5	6488.3	6238.7	5802.2	5385.7	5108.5	5071.8
60°	6479.1	6434.7	6371.9	6590.9	6682.7	6597.0	6143.7	5439.3	4981.4	4692.0	4675.2
62.5°	6744.0	6696.5	6638.3	6825.2	6812.9	6613.8	5711.9	4881.9	4269.4	3958.5	3930.9
65°	6953.8	6910.9	6894.1	7041.1	7021.2	6284.6	5039.6	3969.2	3119.3	2768.7	2757.9
67.5°	7013.5	6996.7	7087.0	7336.6	7025.8	5623.1	3952.4	2632.4	1675.3	1343.0	1323.1
70°	6789.9	6788.4	7047.2	7404.0	6388.7	4295.4	2332.2	1186.8	842.2	747.3	735.0
72.5°	6499.0	6494.4	6699.6	6387.2	4737.9	2350.6	981.6	635.5	526.8	500.7	500.7
75°	6021.2	6009.0	6163.6	4858.9	2664.5	885.1	520.7	436.4	413.5	408.9	408.9
77.5°	4907.9	4805.3	4561.8	3002.9	929.5	434.9	344.6	343.0	329.2	327.7	327.7
80°	1614.0	1614.0	1875.9	1145.4	410.4	268.0	243.5	255.7	242.0	232.8	231.2
82.5°	263.4	362.9	516.1	327.7	222.0	166.9	150.1	159.3	166.9	133.2	133.2
85°	104.1	136.3	199.1	153.1	102.6	67.4	72.0	79.6	70.4	61.3	59.7
87.5°	39.8	49.0	70.4	36.8	21.4	12.3	7.7	7.7	6.1	6.1	6.1
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)