

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: P641713

Luminaire Tested: GWS-SA6B-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641713
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-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21795.6 lumens
Efficiency: N/A
Efficacy: 156.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

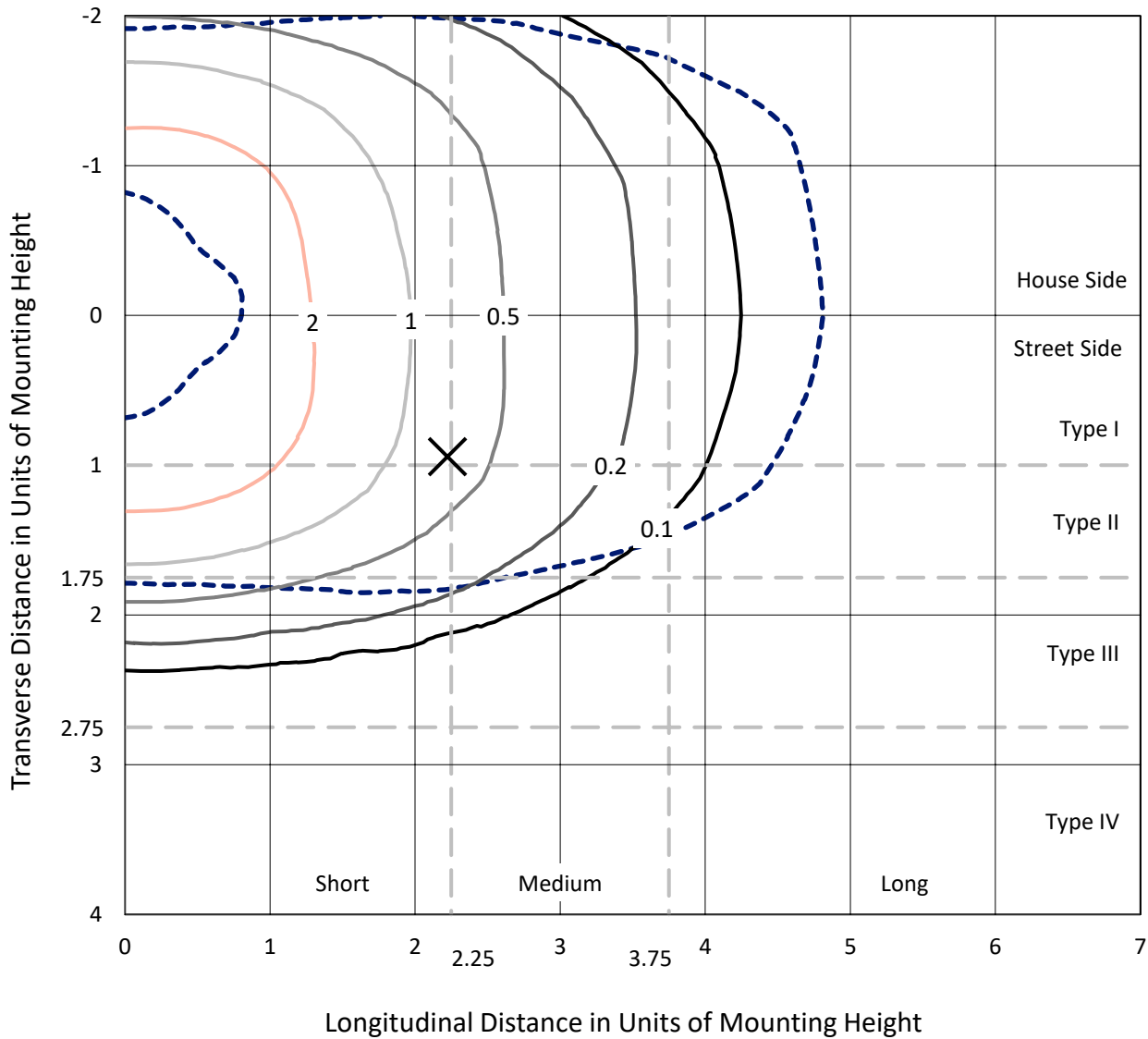
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

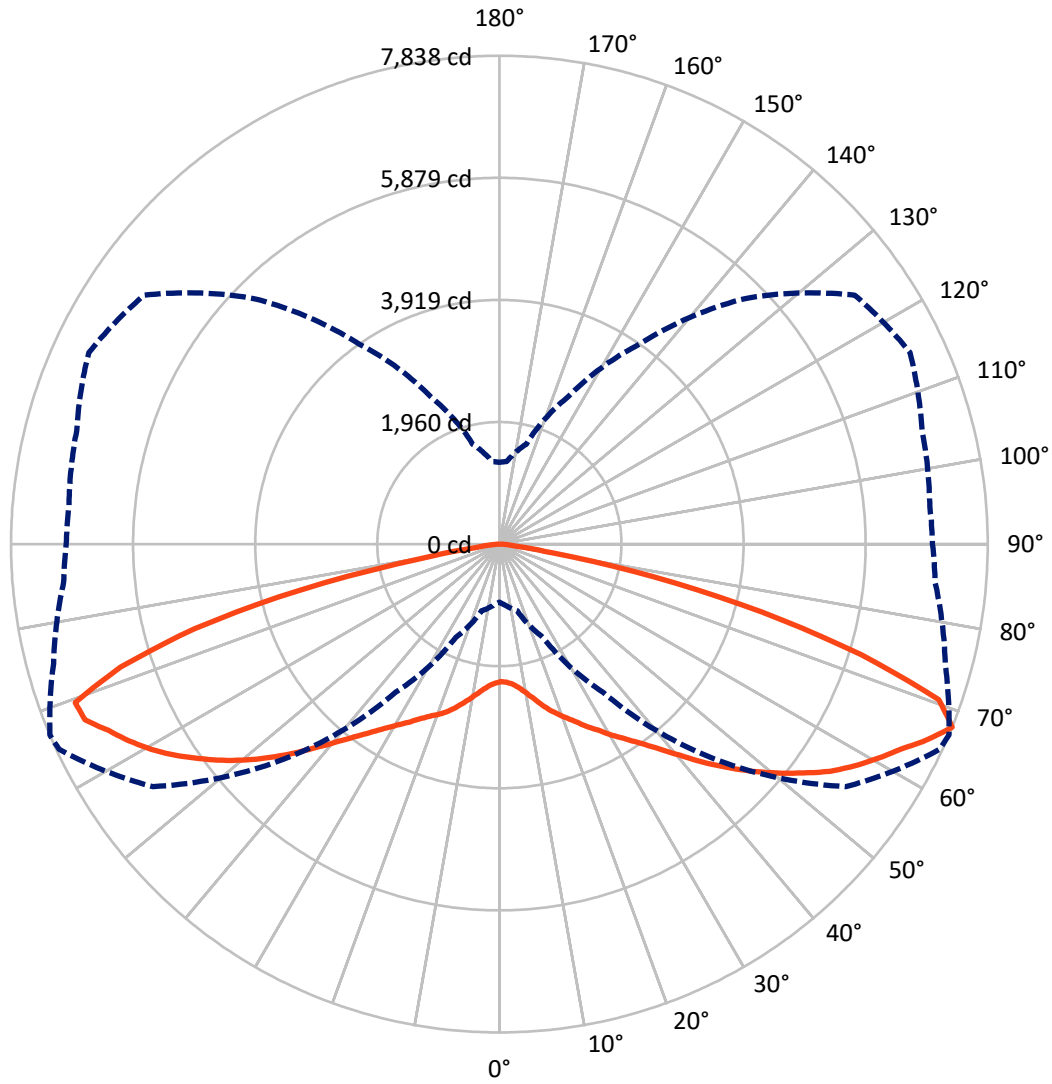
✕ Max cd
 - - - 1/2 Max cd



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	10777.5	0.0	10777.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	11018.1	0.0	11018.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	21795.6	0.0	21795.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.5	1.0
10°-20°	731.5	3.4
20°-30°	1435.2	6.6
30°-40°	2445.1	11.2
40°-50°	3926.4	18.0
50°-60°	5335.2	24.5
60°-70°	5103.4	23.4
70°-80°	2426.4	11.1
80°-90°	175.8	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°	21795.6	100.0
0°-180°	21795.6	100.0

Coefficient of Utilization



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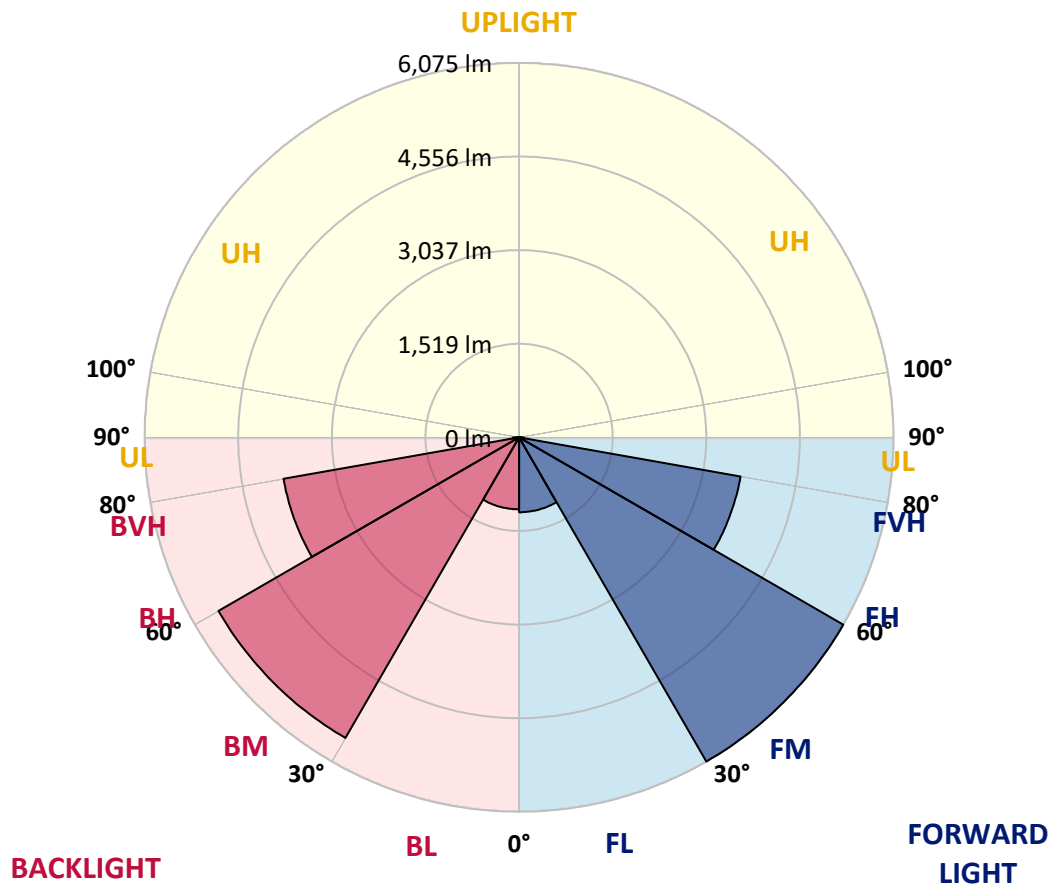
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.3	5.6			
FM (30°-60°)	6074.6	27.9			
FH (60°-80°)	3649.1	16.7			G2/5000
FVH (80°-90°)	79.0	0.4			G1/100
BL (0°-30°)	1168.0	5.4	B3/2500		
BM (30°-60°)	5632.1	25.8	B4/8500		
BH (60°-80°)	3880.7	17.8	B4/5000		G4/5000
BVH (80°-90°)	96.8	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°	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9
2.5°	2161.4	2164.4	2169.0	2178.1	2187.2	2200.9	2214.5	2213.0	2219.1	2223.6	2228.2
5°	2149.2	2152.3	2159.9	2172.0	2185.7	2208.4	2237.3	2249.4	2258.5	2275.2	2290.4
7.5°	2175.1	2181.1	2191.7	2208.4	2229.7	2258.5	2298.0	2319.2	2332.9	2363.3	2389.1
10°	2210.0	2217.6	2238.8	2270.7	2302.5	2346.6	2396.7	2428.5	2437.6	2477.1	2525.7
12.5°	2243.4	2252.5	2287.4	2345.0	2402.7	2461.9	2521.1	2560.6	2563.6	2616.7	2671.4
15°	2296.5	2304.1	2351.1	2425.5	2513.5	2595.5	2668.3	2695.7	2707.8	2745.8	2814.1
17.5°	2413.4	2422.5	2483.2	2563.6	2656.2	2742.7	2815.6	2838.3	2838.3	2870.2	2926.4
20°	2539.3	2548.4	2628.9	2732.1	2844.4	2932.4	2988.6	2967.4	2959.8	2968.9	3008.3
22.5°	2680.5	2697.2	2774.6	2894.5	3032.6	3140.4	3169.2	3105.5	3084.2	3063.0	3072.1
25°	2861.1	2880.8	2956.7	3084.2	3219.3	3333.2	3349.9	3251.2	3239.1	3164.7	3137.4
27.5°	3069.1	3084.2	3178.3	3304.3	3430.3	3525.9	3544.1	3422.7	3381.7	3278.5	3214.8
30°	3337.7	3351.4	3433.3	3557.8	3667.1	3733.9	3756.6	3589.7	3557.8	3399.9	3301.3
32.5°	3630.7	3636.7	3720.2	3840.1	3937.3	4001.0	3969.1	3774.8	3727.8	3550.2	3415.1
35°	3966.1	3966.1	4073.9	4171.0	4248.4	4266.6	4205.9	3984.3	3929.7	3736.9	3568.4
37.5°	4295.5	4304.6	4404.7	4520.1	4588.4	4585.4	4474.6	4231.7	4169.5	3960.0	3773.3
40°	4652.2	4671.9	4772.1	4901.1	4966.3	4957.2	4787.2	4517.1	4453.3	4205.9	4023.8
42.5°	4980.0	5011.9	5128.8	5260.8	5332.1	5326.1	5148.5	4844.9	4782.7	4503.4	4321.3
45°	5241.1	5274.5	5420.2	5603.8	5717.7	5707.0	5527.9	5184.9	5109.0	4816.1	4615.7
47.5°	5470.3	5505.2	5667.6	5861.9	6042.5	6060.7	5896.8	5527.9	5447.5	5151.5	4925.4
50°	5646.3	5663.0	5845.2	6057.7	6267.1	6368.8	6226.1	5872.5	5775.3	5482.4	5227.4
52.5°	5632.7	5655.4	5880.1	6168.5	6449.3	6616.2	6517.6	6197.3	6103.2	5784.5	5535.5
55°	5354.9	5377.7	5644.8	6065.3	6551.0	6796.8	6786.2	6506.9	6438.6	6092.6	5855.8
57.5°	4949.6	4999.7	5265.4	5719.2	6417.4	6941.0	6983.5	6789.3	6717.9	6394.6	6173.0
60°	4224.1	4290.9	4597.5	5186.4	5989.4	6892.5	7194.5	7027.6	6983.5	6675.4	6459.9
62.5°	3069.1	3117.6	3525.9	4298.5	5354.9	6546.4	7372.1	7273.4	7240.1	6927.4	6719.4
65°	1838.1	1948.9	2276.7	3040.2	4319.7	5893.7	7275.0	7595.2	7560.3	7186.9	6941.0
67.5°	930.4	980.5	1109.5	1648.4	2905.1	4876.8	6787.7	7795.6	7838.1	7408.5	7020.0
70°	576.8	590.4	626.9	813.6	1451.0	3204.1	5550.7	7273.4	7481.4	7373.6	6815.1
72.5°	462.9	466.0	472.0	507.0	696.7	1498.1	3509.2	5696.4	6071.3	6886.4	6522.1
75°	384.0	385.5	387.0	397.7	434.1	611.7	1707.6	3914.5	4353.1	5852.8	6047.0
77.5°	308.1	300.5	306.6	311.2	320.3	341.5	588.9	2088.5	2533.3	3841.6	4676.4
80°	200.4	197.3	209.5	214.0	223.1	236.8	314.2	708.8	860.6	1397.9	1487.5
82.5°	107.8	101.7	127.5	122.9	127.5	138.1	185.2	259.5	291.4	422.0	356.7
85°	33.4	33.4	34.9	41.0	50.1	48.6	80.4	127.5	141.2	180.6	133.6
87.5°	6.1	6.1	6.1	6.1	6.1	7.6	16.7	25.8	34.9	62.2	47.1
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°	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9	2206.9
2.5°	2237.3	2223.6	2231.2	2235.8	2234.2	2231.2	2216.0	2213.0	2205.4	2193.3	2190.2
5°	2304.1	2288.9	2290.4	2285.9	2270.7	2250.9	2217.6	2200.9	2187.2	2172.0	2170.5
7.5°	2408.8	2392.1	2387.5	2366.3	2323.8	2278.3	2225.1	2194.8	2172.0	2152.3	2149.2
10°	2542.4	2525.7	2510.5	2460.4	2390.6	2329.9	2260.1	2216.0	2182.6	2158.4	2153.8
12.5°	2691.1	2677.5	2639.5	2566.7	2483.2	2411.8	2340.5	2285.9	2237.3	2200.9	2196.3
15°	2856.6	2826.2	2768.5	2674.4	2595.5	2537.8	2451.3	2376.9	2299.5	2250.9	2240.3
17.5°	2971.9	2946.1	2877.8	2786.7	2724.5	2674.4	2572.7	2466.5	2361.7	2290.4	2275.2
20°	3053.9	3026.6	2949.1	2882.4	2862.6	2820.1	2701.7	2578.8	2457.4	2369.3	2349.6
22.5°	3113.1	3084.2	3005.3	2971.9	2999.2	2991.6	2876.3	2736.6	2592.5	2487.7	2463.4
25°	3169.2	3141.9	3072.1	3084.2	3157.1	3179.9	3055.4	2893.0	2729.1	2606.1	2577.3
27.5°	3222.4	3187.4	3155.6	3222.4	3325.6	3368.1	3236.0	3052.4	2874.8	2748.8	2726.0
30°	3304.3	3263.3	3258.8	3355.9	3519.8	3556.3	3410.6	3226.9	3050.8	2923.3	2894.5
32.5°	3407.5	3369.6	3372.6	3518.3	3708.1	3738.4	3614.0	3442.4	3266.4	3138.9	3099.4
35°	3547.2	3500.1	3525.9	3705.0	3896.3	3952.4	3852.3	3709.6	3538.1	3407.5	3363.5
37.5°	3739.9	3671.6	3724.8	3913.0	4105.7	4189.2	4111.8	4005.6	3835.6	3703.5	3662.5
40°	3985.8	3929.7	3950.9	4158.9	4357.7	4457.9	4409.3	4304.6	4136.1	3998.0	3950.9
42.5°	4277.2	4221.1	4213.5	4435.1	4633.9	4785.7	4738.7	4643.0	4468.5	4310.6	4265.1
45°	4562.6	4511.0	4521.6	4747.8	4970.9	5136.3	5089.3	4977.0	4787.2	4605.1	4568.7
47.5°	4860.1	4817.6	4826.7	5066.5	5312.4	5477.9	5418.7	5282.1	5060.4	4866.2	4822.1
50°	5165.2	5116.6	5130.3	5382.2	5647.8	5804.2	5713.1	5511.2	5266.9	5077.1	5039.2
52.5°	5468.7	5411.1	5446.0	5684.3	5959.0	6083.5	5915.0	5670.6	5433.8	5245.6	5203.1
55°	5817.8	5757.1	5719.2	5974.2	6245.9	6297.5	6066.8	5781.4	5500.6	5286.6	5260.8
57.5°	6136.6	6085.0	6013.6	6268.6	6469.0	6431.0	6183.6	5751.1	5338.2	5063.5	5027.1
60°	6421.9	6377.9	6315.7	6532.7	6623.8	6538.8	6089.5	5391.3	4937.5	4650.6	4633.9
62.5°	6684.5	6637.5	6579.8	6765.0	6752.8	6555.5	5661.5	4838.8	4231.7	3923.6	3896.3
65°	6892.5	6850.0	6833.3	6979.0	6959.3	6229.2	4995.2	3934.2	3091.8	2744.2	2733.6
67.5°	6951.7	6935.0	7024.5	7271.9	6963.8	5573.5	3917.5	2609.2	1660.5	1331.1	1311.4
70°	6730.1	6728.5	6985.1	7338.7	6332.4	4257.5	2311.7	1176.3	834.8	740.7	728.6
72.5°	6441.7	6437.1	6640.5	6330.9	4696.2	2329.9	972.9	629.9	522.1	496.3	496.3
75°	5968.1	5956.0	6109.3	4816.1	2641.0	877.3	516.1	432.6	409.8	405.3	405.3
77.5°	4864.6	4763.0	4521.6	2976.5	921.3	431.1	341.5	340.0	326.3	324.8	324.8
80°	1599.8	1599.8	1859.3	1135.3	406.8	265.6	241.3	253.5	239.8	230.7	229.2
82.5°	261.1	359.7	511.5	324.8	220.1	165.4	148.7	157.9	165.4	132.1	132.1
85°	103.2	135.1	197.3	151.8	101.7	66.8	71.3	78.9	69.8	60.7	59.2
87.5°	39.5	48.6	69.8	36.4	21.2	12.1	7.6	7.6	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)