

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: P637313

Luminaire Tested: GWS-SA4C-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637313
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-SA4C-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20440.8 lumens
Efficiency: N/A
Efficacy: 159.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

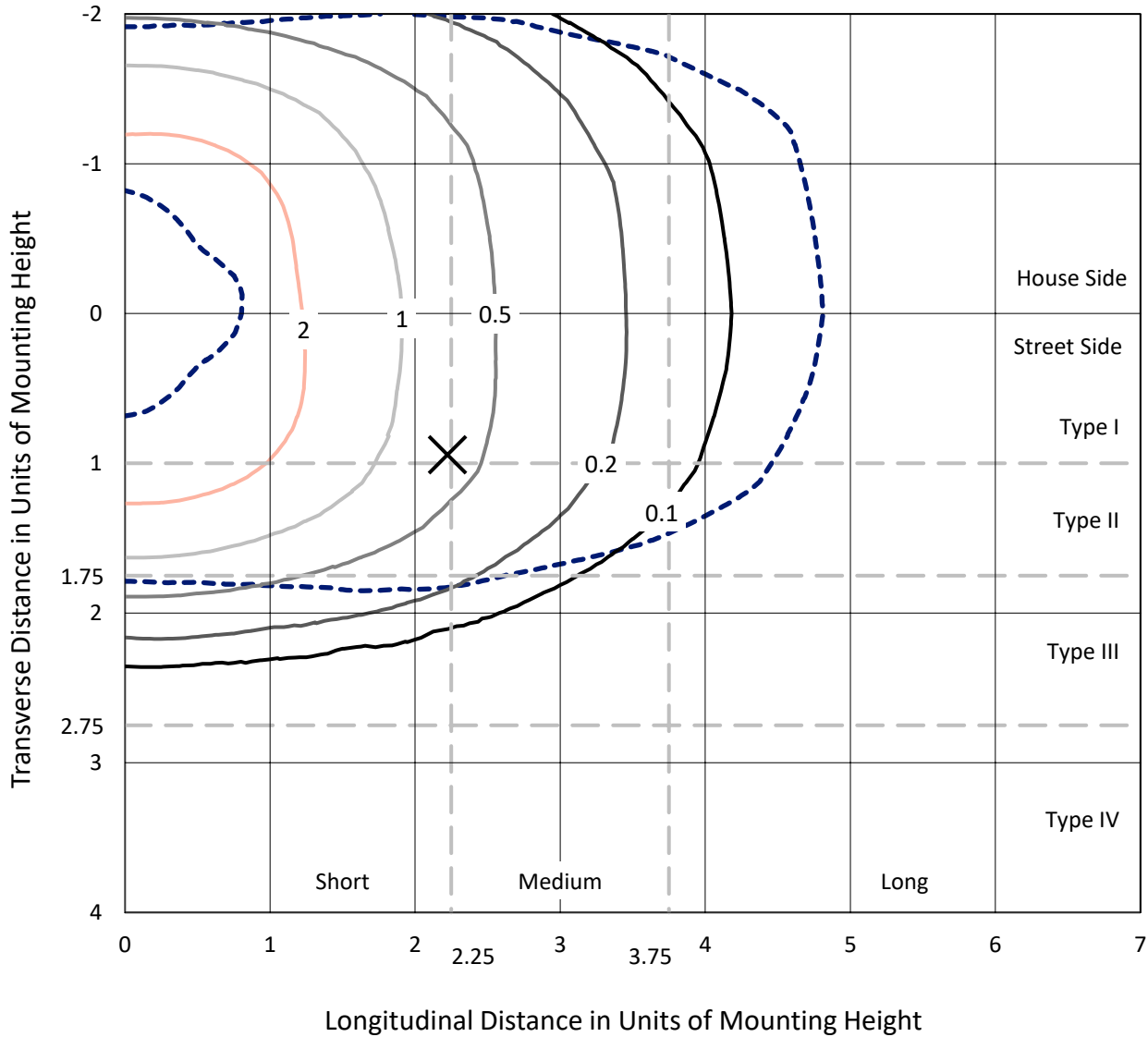
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

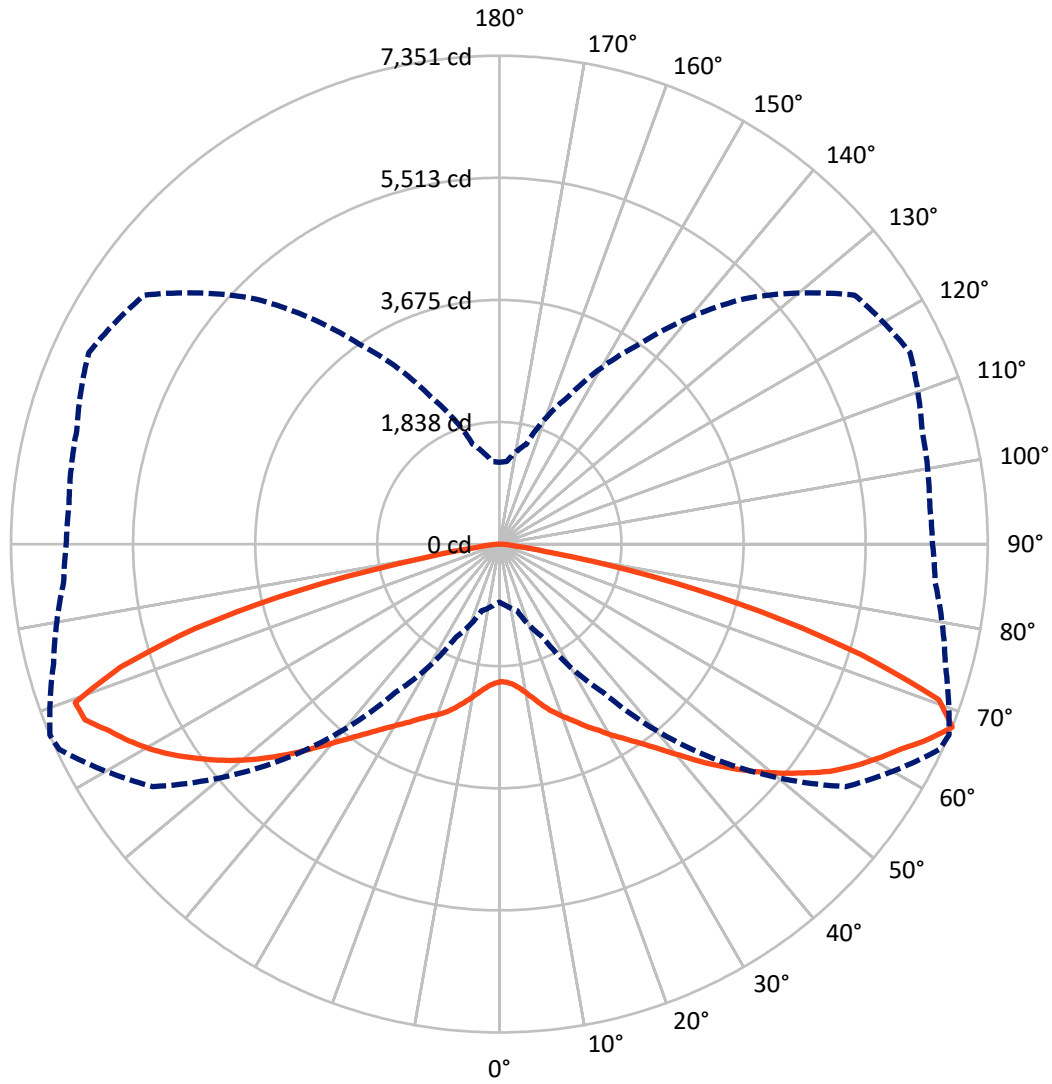
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	10107.6	0.0	10107.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	10333.2	0.0	10333.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	20440.8	0.0	20440.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	1.0
10°-20°	686.0	3.4
20°-30°	1346.0	6.6
30°-40°	2293.1	11.2
40°-50°	3682.3	18.0
50°-60°	5003.5	24.5
60°-70°	4786.2	23.4
70°-80°	2275.5	11.1
80°-90°	164.9	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°	20440.8	100.0
0°-180°	20440.8	100.0

Coefficient of Utilization



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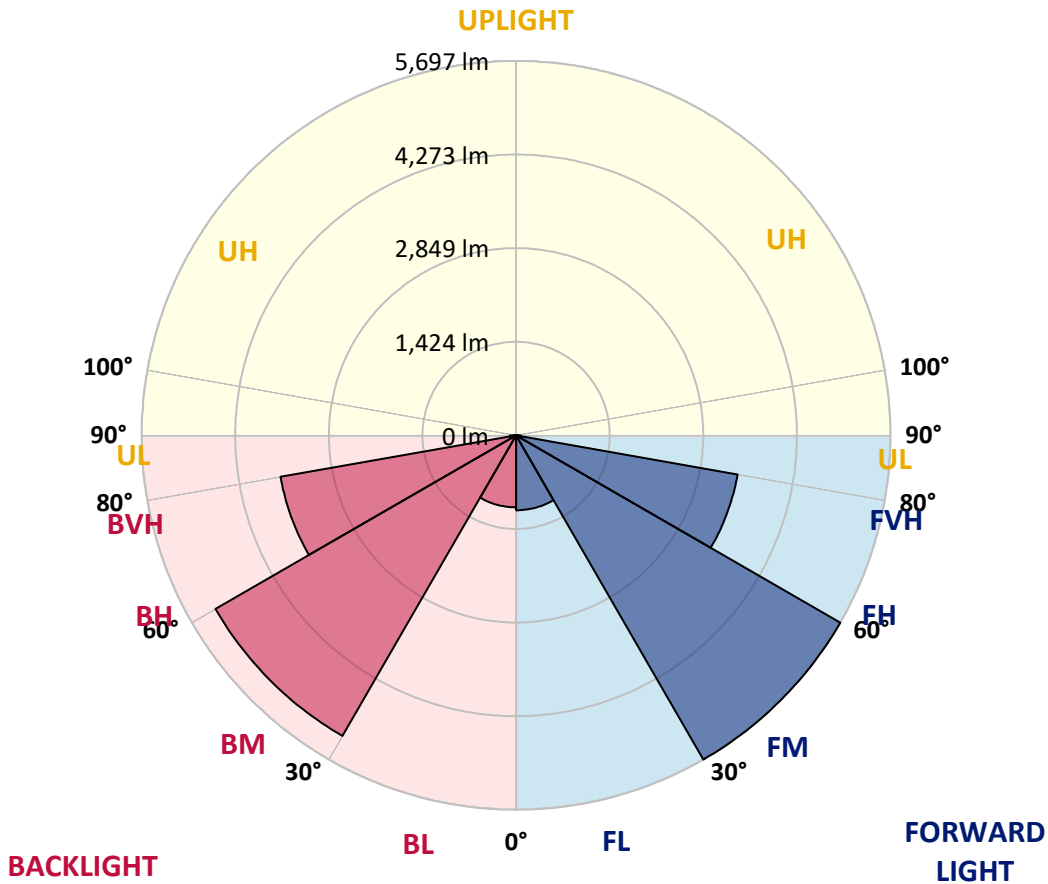
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.7	5.6			
FM (30°-60°)	5697.0	27.9			
FH (60°-80°)	3422.3	16.7			G2/5000
FVH (80°-90°)	74.1	0.4			G1/100
BL (0°-30°)	1095.4	5.4	B3/2500		
BM (30°-60°)	5282.0	25.8	B4/8500		
BH (60°-80°)	3639.4	17.8	B4/5000		G4/5000
BVH (80°-90°)	90.8	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°	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7
2.5°	2027.0	2029.9	2034.2	2042.7	2051.2	2064.1	2076.9	2075.4	2081.1	2085.4	2089.7
5°	2015.7	2018.5	2025.6	2037.0	2049.8	2071.2	2098.2	2109.6	2118.1	2133.8	2148.0
7.5°	2039.9	2045.5	2055.5	2071.2	2091.1	2118.1	2155.2	2175.1	2187.9	2216.4	2240.6
10°	2072.6	2079.7	2099.6	2129.5	2159.4	2200.7	2247.7	2277.6	2286.1	2323.1	2368.7
12.5°	2103.9	2112.4	2145.2	2199.3	2253.4	2308.9	2364.4	2401.4	2404.3	2454.1	2505.3
15°	2153.7	2160.8	2205.0	2274.7	2357.3	2434.2	2502.5	2528.1	2539.5	2575.1	2639.1
17.5°	2263.3	2271.9	2328.8	2404.3	2491.1	2572.2	2640.6	2661.9	2661.9	2691.8	2744.5
20°	2381.5	2390.0	2465.5	2562.3	2667.6	2750.2	2802.8	2782.9	2775.8	2784.3	2821.3
22.5°	2513.9	2529.5	2602.1	2714.6	2844.1	2945.2	2972.2	2912.4	2892.5	2872.6	2881.1
25°	2683.3	2701.8	2772.9	2892.5	3019.2	3126.0	3141.6	3049.1	3037.7	2968.0	2942.3
27.5°	2878.3	2892.5	2980.8	3098.9	3217.1	3306.8	3323.8	3210.0	3171.5	3074.7	3014.9
30°	3130.2	3143.1	3219.9	3336.6	3439.1	3501.8	3523.1	3366.5	3336.6	3188.6	3096.1
32.5°	3405.0	3410.7	3489.0	3601.4	3692.5	3752.3	3722.4	3540.2	3496.1	3329.5	3202.8
35°	3719.6	3719.6	3820.6	3911.7	3984.3	4001.4	3944.5	3736.6	3685.4	3504.6	3346.6
37.5°	4028.5	4037.0	4130.9	4239.1	4303.2	4300.3	4196.4	3968.7	3910.3	3713.9	3538.8
40°	4363.0	4381.5	4475.4	4596.4	4657.6	4649.1	4489.7	4236.3	4176.5	3944.5	3773.7
42.5°	4670.4	4700.3	4810.0	4933.8	5000.7	4995.0	4828.5	4543.8	4485.4	4223.5	4052.7
45°	4915.3	4946.6	5083.3	5255.5	5362.3	5352.3	5184.3	4862.6	4791.4	4516.7	4328.8
47.5°	5130.2	5163.0	5315.3	5497.5	5666.9	5684.0	5530.2	5184.3	5108.9	4831.3	4619.2
50°	5295.4	5311.0	5481.8	5681.1	5877.6	5972.9	5839.1	5507.5	5416.4	5141.6	4902.5
52.5°	5282.5	5303.9	5514.6	5785.0	6048.4	6205.0	6112.4	5812.1	5723.8	5424.9	5191.4
55°	5022.0	5043.4	5293.9	5688.2	6143.8	6374.4	6364.4	6102.5	6038.4	5713.9	5491.8
57.5°	4642.0	4689.0	4938.1	5363.7	6018.5	6509.6	6549.4	6367.2	6300.3	5997.1	5789.3
60°	3961.6	4024.2	4311.7	4864.0	5617.1	6464.0	6747.3	6590.7	6549.4	6260.5	6058.3
62.5°	2878.3	2923.8	3306.8	4031.3	5022.0	6139.5	6913.9	6821.3	6790.0	6496.8	6301.8
65°	1723.8	1827.8	2135.2	2851.2	4051.2	5527.4	6822.8	7123.1	7090.4	6740.2	6509.6
67.5°	872.6	919.6	1040.6	1545.9	2724.5	4573.7	6365.8	7311.0	7350.9	6948.0	6583.6
70°	540.9	553.7	587.9	763.0	1360.9	3005.0	5205.7	6821.3	7016.3	6915.3	6391.4
72.5°	434.2	437.0	442.7	475.4	653.4	1405.0	3291.1	5342.3	5693.9	6458.3	6116.7
75°	360.1	361.6	363.0	373.0	407.1	573.7	1601.4	3671.2	4082.6	5489.0	5671.2
77.5°	289.0	281.8	287.5	291.8	300.4	320.3	552.3	1958.7	2375.8	3602.8	4385.8
80°	187.9	185.1	196.4	200.7	209.3	222.1	294.7	664.8	807.1	1311.0	1395.0
82.5°	101.1	95.4	119.6	115.3	119.6	129.5	173.7	243.4	273.3	395.7	334.5
85°	31.3	31.3	32.7	38.4	47.0	45.6	75.4	119.6	132.4	169.4	125.3
87.5°	5.7	5.7	5.7	5.7	5.7	7.1	15.7	24.2	32.7	58.4	44.1
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°	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7	2069.7
2.5°	2098.2	2085.4	2092.5	2096.8	2095.4	2092.5	2078.3	2075.4	2068.3	2056.9	2054.1
5°	2160.8	2146.6	2148.0	2143.8	2129.5	2111.0	2079.7	2064.1	2051.2	2037.0	2035.6
7.5°	2259.1	2243.4	2239.1	2219.2	2179.4	2136.6	2086.8	2058.4	2037.0	2018.5	2015.7
10°	2384.3	2368.7	2354.4	2307.5	2242.0	2185.0	2119.6	2078.3	2047.0	2024.2	2019.9
12.5°	2523.8	2511.0	2475.4	2407.1	2328.8	2261.9	2195.0	2143.8	2098.2	2064.1	2059.8
15°	2679.0	2650.5	2596.4	2508.2	2434.2	2380.1	2298.9	2229.2	2156.6	2111.0	2101.1
17.5°	2787.2	2763.0	2698.9	2613.5	2555.2	2508.2	2412.8	2313.2	2214.9	2148.0	2133.8
20°	2864.0	2838.4	2765.8	2703.2	2684.7	2644.8	2533.8	2418.5	2304.6	2222.1	2203.6
22.5°	2919.6	2892.5	2818.5	2787.2	2812.8	2805.7	2697.5	2566.5	2431.3	2333.1	2310.3
25°	2972.2	2946.6	2881.1	2892.5	2960.8	2982.2	2865.5	2713.2	2559.4	2444.1	2417.1
27.5°	3022.1	2989.3	2959.4	3022.1	3118.9	3158.7	3034.9	2862.6	2696.1	2577.9	2556.6
30°	3098.9	3060.5	3056.2	3147.3	3301.1	3335.2	3198.6	3026.3	2861.2	2741.6	2714.6
32.5°	3195.7	3160.1	3163.0	3299.6	3477.6	3506.0	3389.3	3228.5	3063.3	2943.8	2906.8
35°	3326.7	3282.6	3306.8	3474.7	3654.1	3706.8	3612.8	3479.0	3318.1	3195.7	3154.4
37.5°	3507.5	3443.4	3493.2	3669.7	3850.5	3928.8	3856.2	3756.6	3597.1	3473.3	3434.9
40°	3738.1	3685.4	3705.3	3900.3	4086.8	4180.8	4135.2	4037.0	3879.0	3749.5	3705.3
42.5°	4011.4	3958.7	3951.6	4159.4	4345.9	4488.2	4444.1	4354.4	4190.7	4042.7	4000.0
45°	4279.0	4230.6	4240.6	4452.7	4661.9	4817.1	4772.9	4667.6	4489.7	4318.8	4284.7
47.5°	4558.0	4518.1	4526.7	4751.6	4982.2	5137.4	5081.8	4953.7	4745.9	4563.7	4522.4
50°	4844.1	4798.6	4811.4	5047.7	5296.8	5443.4	5358.0	5168.7	4939.5	4761.6	4726.0
52.5°	5128.8	5074.7	5107.5	5330.9	5588.6	5705.3	5547.3	5318.1	5096.1	4919.6	4879.7
55°	5456.2	5399.3	5363.7	5602.8	5857.6	5906.0	5689.7	5422.0	5158.7	4958.0	4933.8
57.5°	5755.1	5706.7	5639.8	5879.0	6066.9	6031.3	5799.3	5393.6	5006.4	4748.7	4714.6
60°	6022.8	5981.5	5923.1	6126.7	6212.1	6132.4	5711.0	5056.2	4630.6	4361.6	4345.9
62.5°	6269.0	6224.9	6170.8	6344.5	6333.1	6148.0	5309.6	4538.1	3968.7	3679.7	3654.1
65°	6464.0	6424.2	6408.5	6545.2	6526.7	5842.0	4684.7	3689.7	2899.6	2573.7	2563.7
67.5°	6519.6	6503.9	6587.9	6819.9	6530.9	5227.0	3674.0	2447.0	1557.3	1248.4	1229.9
70°	6311.7	6310.3	6550.9	6882.5	5938.8	3992.9	2168.0	1103.2	782.9	694.7	683.3
72.5°	6041.3	6037.0	6227.7	5937.3	4404.3	2185.0	912.5	590.7	489.7	465.5	465.5
75°	5597.1	5585.7	5729.5	4516.7	2476.9	822.8	484.0	405.7	384.3	380.1	380.1
77.5°	4562.3	4466.9	4240.6	2791.5	864.1	404.3	320.3	318.9	306.0	304.6	304.6
80°	1500.4	1500.4	1743.8	1064.8	381.5	249.1	226.3	237.7	224.9	216.4	214.9
82.5°	244.8	337.4	479.7	304.6	206.4	155.2	139.5	148.0	155.2	123.8	123.8
85°	96.8	126.7	185.1	142.3	95.4	62.6	66.9	74.0	65.5	56.9	55.5
87.5°	37.0	45.6	65.5	34.2	19.9	11.4	7.1	7.1	5.7	5.7	5.7
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)