

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: P637973

Luminaire Tested: GWS-SA4D-830-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637973
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-SA4D-830-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20026.2 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

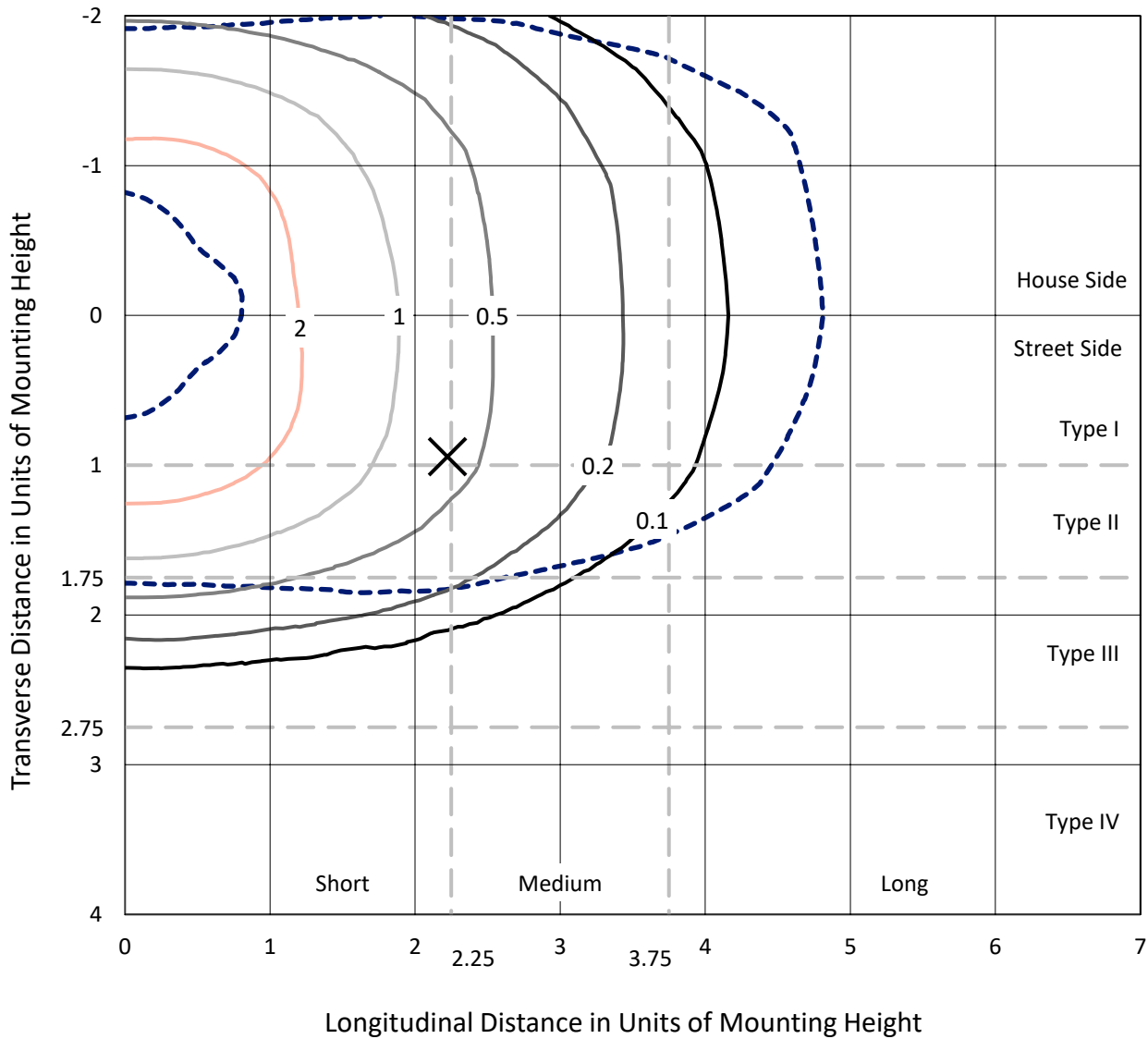
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

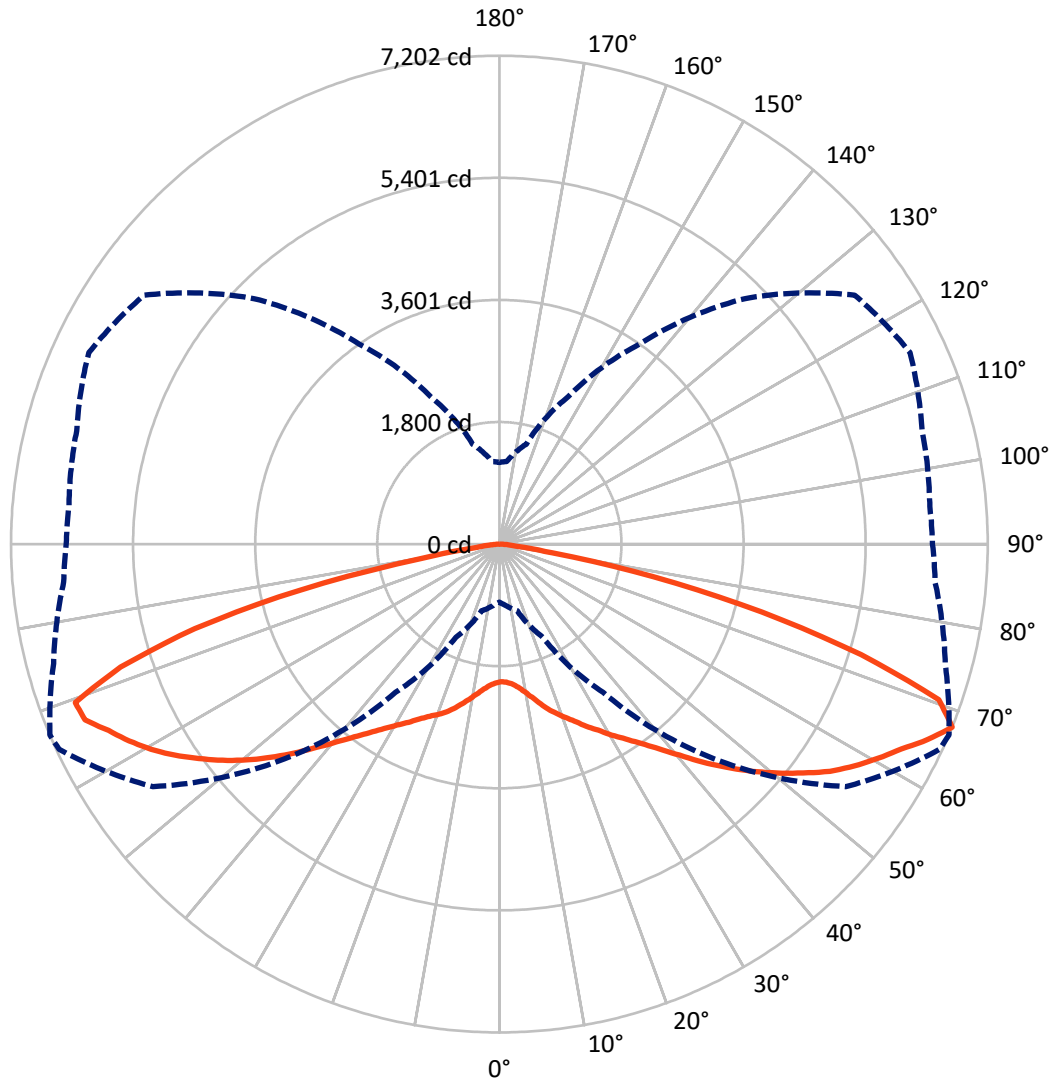
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	9902.6	0.0	9902.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	10123.6	0.0	10123.6
	% Fixture	50.6	0.0	50.6
Total	Lumens	20026.2	0.0	20026.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	1.0
10°-20°	672.1	3.4
20°-30°	1318.7	6.6
30°-40°	2246.6	11.2
40°-50°	3607.7	18.0
50°-60°	4902.0	24.5
60°-70°	4689.1	23.4
70°-80°	2229.4	11.1
80°-90°	161.6	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°	20026.2	100.0
0°-180°	20026.2	100.0

Coefficient of Utilization



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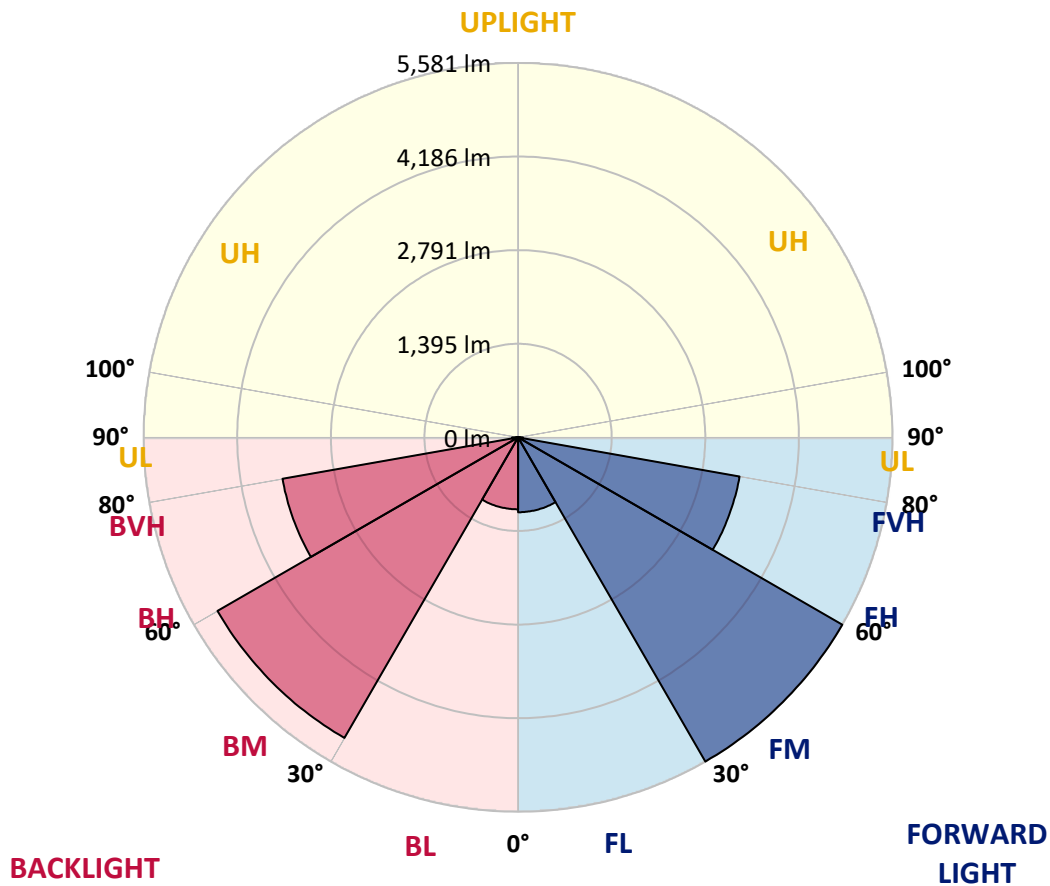
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1116.6	5.6			
FM (30°-60°)	5581.5	27.9			
FH (60°-80°)	3352.9	16.7			G2/5000
FVH (80°-90°)	72.6	0.4			G1/100
BL (0°-30°)	1073.2	5.4	B3/2500		
BM (30°-60°)	5174.9	25.8	B4/8500		
BH (60°-80°)	3565.6	17.8	B4/5000		G4/5000
BVH (80°-90°)	88.9	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°	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8
2.5°	1985.9	1988.7	1992.9	2001.3	2009.6	2022.2	2034.7	2033.3	2038.9	2043.1	2047.3
5°	1974.8	1977.6	1984.5	1995.7	2008.2	2029.2	2055.7	2066.8	2075.2	2090.5	2104.5
7.5°	1998.5	2004.1	2013.8	2029.2	2048.7	2075.2	2111.4	2131.0	2143.5	2171.4	2195.1
10°	2030.6	2037.5	2057.1	2086.3	2115.6	2156.1	2202.1	2231.4	2239.7	2276.0	2320.6
12.5°	2061.2	2069.6	2101.7	2154.7	2207.7	2262.1	2316.4	2352.7	2355.5	2404.3	2454.5
15°	2110.0	2117.0	2160.3	2228.6	2309.5	2384.8	2451.7	2476.8	2488.0	2522.9	2585.6
17.5°	2217.4	2225.8	2281.6	2355.5	2440.6	2520.1	2587.0	2607.9	2607.9	2637.2	2688.8
20°	2333.2	2341.6	2415.5	2510.3	2613.5	2694.4	2746.0	2726.5	2719.5	2727.9	2764.1
22.5°	2462.9	2478.2	2549.3	2659.5	2786.4	2885.5	2911.9	2853.4	2833.8	2814.3	2822.7
25°	2628.8	2647.0	2716.7	2833.8	2958.0	3062.6	3077.9	2987.3	2976.1	2907.8	2882.7
27.5°	2819.9	2833.8	2920.3	3036.1	3151.8	3239.7	3256.4	3144.8	3107.2	3012.4	2953.8
30°	3066.7	3079.3	3154.6	3269.0	3369.4	3430.7	3451.7	3298.3	3269.0	3123.9	3033.3
32.5°	3335.9	3341.5	3418.2	3528.4	3617.6	3676.2	3646.9	3468.4	3425.2	3262.0	3137.9
35°	3644.1	3644.1	3743.1	3832.4	3903.5	3920.3	3864.5	3660.9	3610.6	3433.5	3278.7
37.5°	3946.7	3955.1	4047.2	4153.2	4215.9	4213.1	4111.3	3888.2	3831.0	3638.5	3467.0
40°	4274.5	4292.6	4384.7	4503.2	4563.2	4554.8	4398.6	4150.4	4091.8	3864.5	3697.1
42.5°	4575.7	4605.0	4712.4	4833.7	4899.3	4893.7	4730.5	4451.6	4394.4	4137.8	3970.5
45°	4815.6	4846.3	4980.2	5148.9	5253.5	5243.7	5079.2	4764.0	4694.3	4425.1	4241.0
47.5°	5026.2	5058.3	5207.5	5386.0	5551.9	5568.7	5418.1	5079.2	5005.3	4733.3	4525.5
50°	5188.0	5203.3	5370.6	5565.9	5758.3	5851.8	5720.7	5395.7	5306.5	5037.3	4803.0
52.5°	5175.4	5196.3	5402.7	5667.7	5925.7	6079.1	5988.5	5694.2	5607.7	5314.9	5086.1
55°	4920.2	4941.1	5186.6	5572.9	6019.1	6245.1	6235.3	5978.7	5915.9	5598.0	5380.4
57.5°	4547.8	4593.8	4837.9	5254.9	5896.4	6377.6	6416.6	6238.1	6172.5	5875.5	5671.9
60°	3881.2	3942.6	4224.3	4765.4	5503.1	6332.9	6610.5	6457.0	6416.6	6133.5	5935.5
62.5°	2819.9	2864.5	3239.7	3949.5	4920.2	6015.0	6773.6	6683.0	6652.3	6365.0	6173.9
65°	1688.9	1790.7	2091.9	2793.4	3969.1	5415.3	6684.4	6978.6	6946.6	6603.5	6377.6
67.5°	854.9	900.9	1019.5	1514.5	2669.3	4480.9	6236.7	7162.7	7201.8	6807.1	6450.1
70°	530.0	542.5	576.0	747.5	1333.2	2944.0	5100.1	6683.0	6874.0	6775.0	6261.8
72.5°	425.4	428.1	433.7	465.8	640.1	1376.5	3224.3	5234.0	5578.4	6327.4	5992.6
75°	352.8	354.2	355.6	365.4	398.9	562.0	1568.9	3596.7	3999.7	5377.6	5556.1
77.5°	283.1	276.1	281.7	285.9	294.3	313.8	541.1	1919.0	2327.6	3529.8	4296.8
80°	184.1	181.3	192.5	196.6	205.0	217.6	288.7	651.3	790.7	1284.4	1366.7
82.5°	99.0	93.4	117.1	113.0	117.1	126.9	170.1	238.5	267.8	387.7	327.7
85°	30.7	30.7	32.1	37.7	46.0	44.6	73.9	117.1	129.7	166.0	122.7
87.5°	5.6	5.6	5.6	5.6	5.6	7.0	15.3	23.7	32.1	57.2	43.2
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°	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8	2027.8
2.5°	2055.7	2043.1	2050.1	2054.3	2052.9	2050.1	2036.1	2033.3	2026.4	2015.2	2012.4
5°	2117.0	2103.1	2104.5	2100.3	2086.3	2068.2	2037.5	2022.2	2009.6	1995.7	1994.3
7.5°	2213.2	2197.9	2193.7	2174.2	2135.1	2093.3	2044.5	2016.6	1995.7	1977.6	1974.8
10°	2336.0	2320.6	2306.7	2260.7	2196.5	2140.7	2076.6	2036.1	2005.5	1983.1	1979.0
12.5°	2472.6	2460.1	2425.2	2358.3	2281.6	2216.0	2150.5	2100.3	2055.7	2022.2	2018.0
15°	2624.7	2596.8	2543.8	2457.3	2384.8	2331.8	2252.3	2184.0	2112.8	2068.2	2058.4
17.5°	2730.6	2706.9	2644.2	2560.5	2503.3	2457.3	2363.9	2266.2	2170.0	2104.5	2090.5
20°	2806.0	2780.9	2709.7	2648.4	2630.2	2591.2	2482.4	2369.4	2257.9	2177.0	2158.9
22.5°	2860.3	2833.8	2761.3	2730.6	2755.8	2748.8	2642.8	2514.5	2382.0	2285.8	2263.5
25°	2911.9	2886.8	2822.7	2833.8	2900.8	2921.7	2807.4	2658.1	2507.5	2394.5	2368.0
27.5°	2960.8	2928.7	2899.4	2960.8	3055.6	3094.6	2973.3	2804.6	2641.4	2525.6	2504.7
30°	3036.1	2998.4	2994.2	3083.5	3234.1	3267.6	3133.7	2964.9	2803.2	2686.0	2659.5
32.5°	3130.9	3096.0	3098.8	3232.7	3407.0	3434.9	3320.6	3163.0	3001.2	2884.1	2847.8
35°	3259.2	3216.0	3239.7	3404.2	3580.0	3631.6	3539.5	3408.4	3250.8	3130.9	3090.5
37.5°	3436.3	3373.6	3422.4	3595.3	3772.4	3849.1	3778.0	3680.4	3524.2	3402.9	3365.2
40°	3662.2	3610.6	3630.2	3821.2	4003.9	4096.0	4051.3	3955.1	3800.3	3673.4	3630.2
42.5°	3930.0	3878.4	3871.4	4075.1	4257.7	4397.2	4354.0	4266.1	4105.7	3960.7	3918.9
45°	4192.2	4144.8	4154.5	4362.3	4567.4	4719.4	4676.1	4572.9	4398.6	4231.2	4197.8
47.5°	4465.5	4426.5	4434.9	4655.2	4881.1	5033.2	4978.8	4853.2	4649.6	4471.1	4430.7
50°	4745.9	4701.2	4713.8	4945.3	5189.3	5333.0	5249.3	5063.8	4839.3	4665.0	4630.1
52.5°	5024.8	4971.8	5003.9	5222.8	5475.2	5589.6	5434.8	5210.3	4992.7	4819.8	4780.7
55°	5345.5	5289.8	5254.9	5489.2	5738.8	5786.2	5574.3	5312.1	5054.1	4857.4	4833.7
57.5°	5638.4	5591.0	5525.4	5759.7	5943.8	5909.0	5681.6	5284.2	4904.8	4652.4	4619.0
60°	5900.6	5860.2	5803.0	6002.4	6086.1	6008.0	5595.2	4953.7	4536.7	4273.1	4257.7
62.5°	6141.9	6098.6	6045.6	6215.8	6204.6	6023.3	5201.9	4446.0	3888.2	3605.1	3580.0
65°	6332.9	6293.9	6278.5	6412.4	6394.3	5723.5	4589.7	3614.8	2840.8	2521.5	2511.7
67.5°	6387.3	6372.0	6454.3	6681.6	6398.5	5121.0	3599.5	2397.3	1525.7	1223.1	1204.9
70°	6183.7	6182.3	6418.0	6742.9	5818.3	3911.9	2124.0	1080.8	767.0	680.6	669.4
72.5°	5918.7	5914.5	6101.4	5816.9	4314.9	2140.7	893.9	578.8	479.7	456.0	456.0
75°	5483.6	5472.5	5613.3	4425.1	2426.6	806.1	474.2	397.5	376.5	372.4	372.4
77.5°	4469.7	4376.3	4154.5	2734.8	846.5	396.1	313.8	312.4	299.8	298.4	298.4
80°	1469.9	1469.9	1708.4	1043.2	373.8	244.1	221.7	232.9	220.3	212.0	210.6
82.5°	239.9	330.5	470.0	298.4	202.2	152.0	136.7	145.0	152.0	121.3	121.3
85°	94.8	124.1	181.3	139.5	93.4	61.4	65.5	72.5	64.2	55.8	54.4
87.5°	36.3	44.6	64.2	33.5	19.5	11.2	7.0	7.0	5.6	5.6	5.6
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)