

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: P639513

Luminaire Tested: GWS-SA5C-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639513
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-SA5C-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18056.3 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

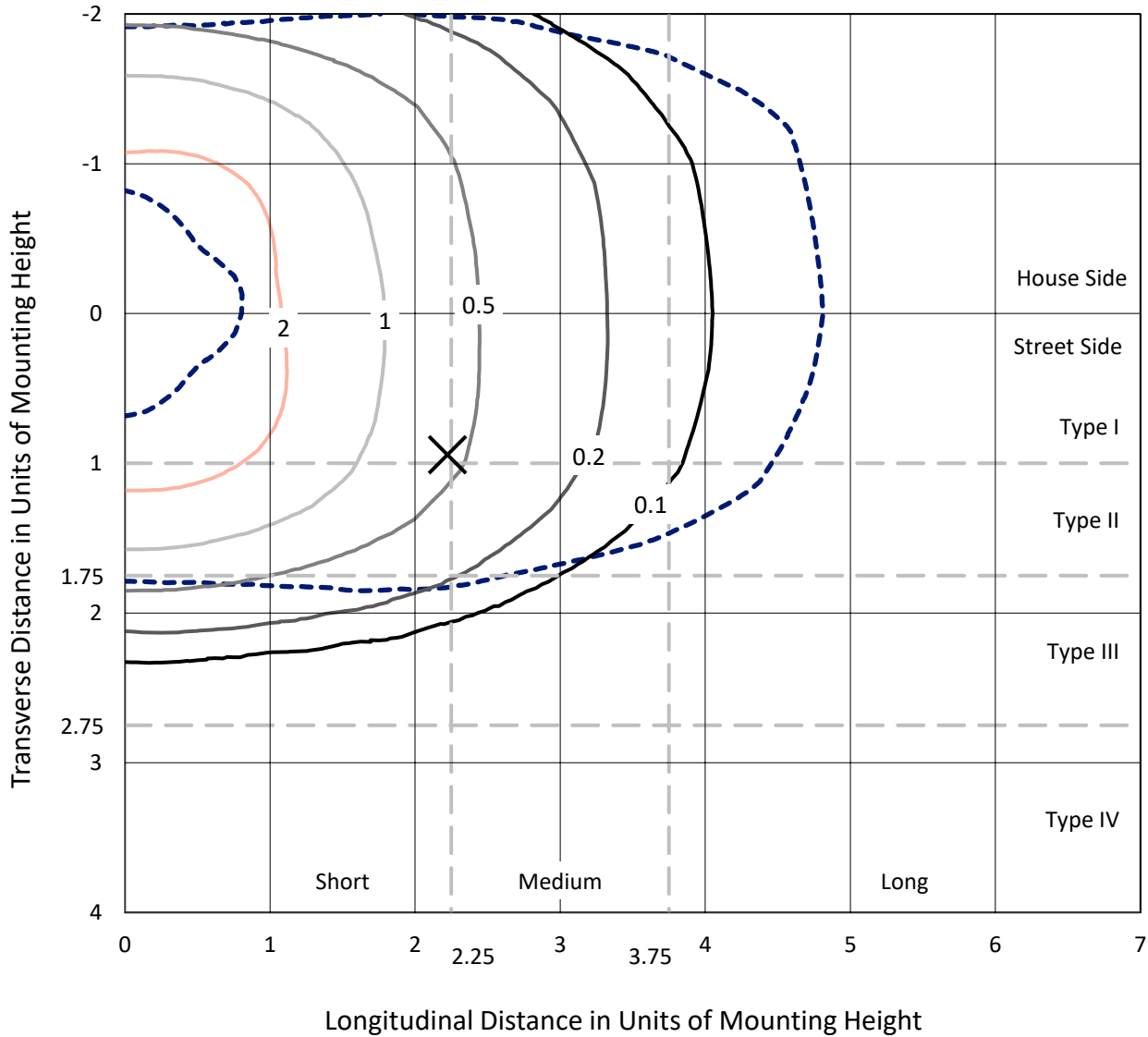
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

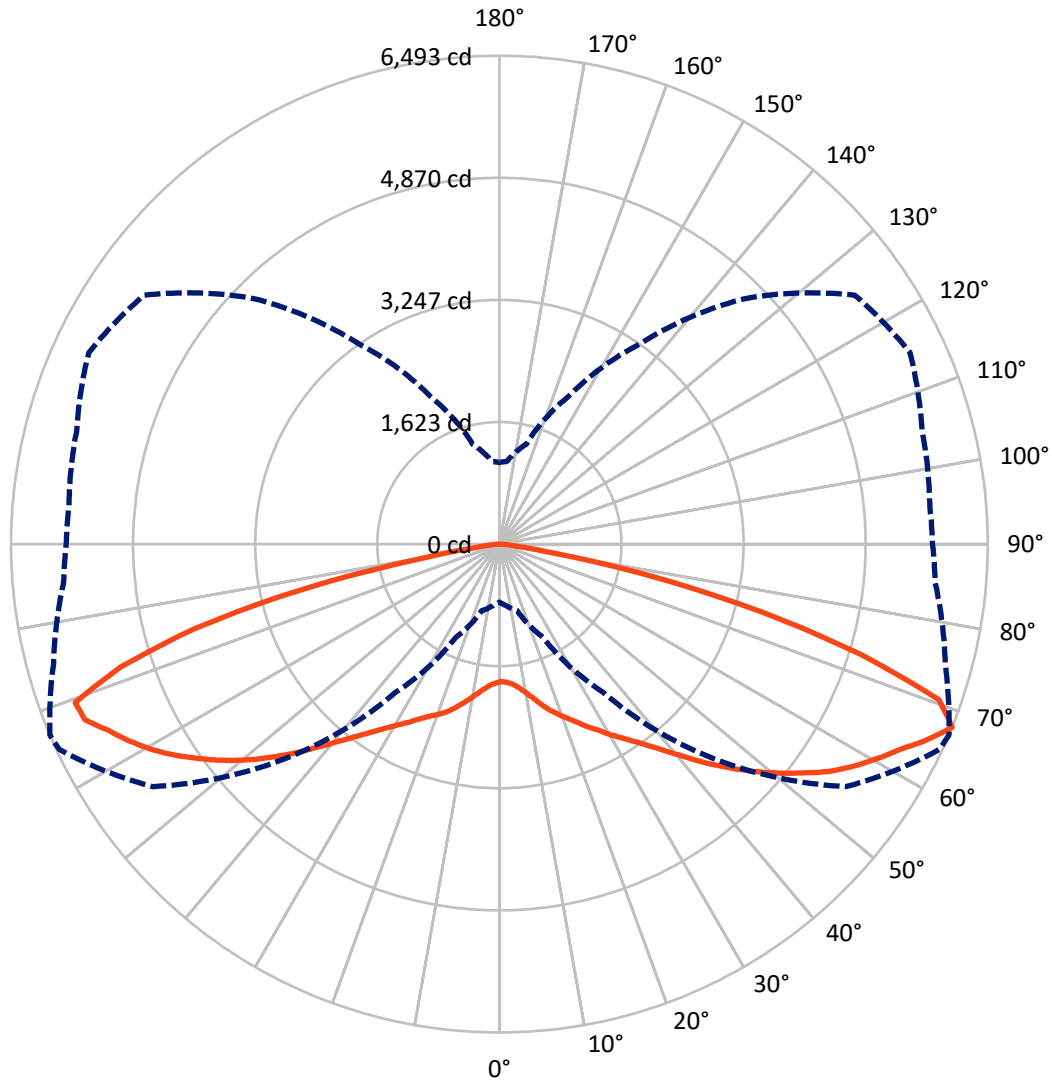
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	8928.5	0.0	8928.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	9127.8	0.0	9127.8
	% Fixture	50.6	0.0	50.6
Total	Lumens	18056.3	0.0	18056.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	1.0
10°-20°	606.0	3.4
20°-30°	1189.0	6.6
30°-40°	2025.6	11.2
40°-50°	3252.8	18.0
50°-60°	4419.9	24.5
60°-70°	4227.9	23.4
70°-80°	2010.1	11.1
80°-90°	145.7	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°	18056.3	100.0
0°-180°	18056.3	100.0

Coefficient of Utilization



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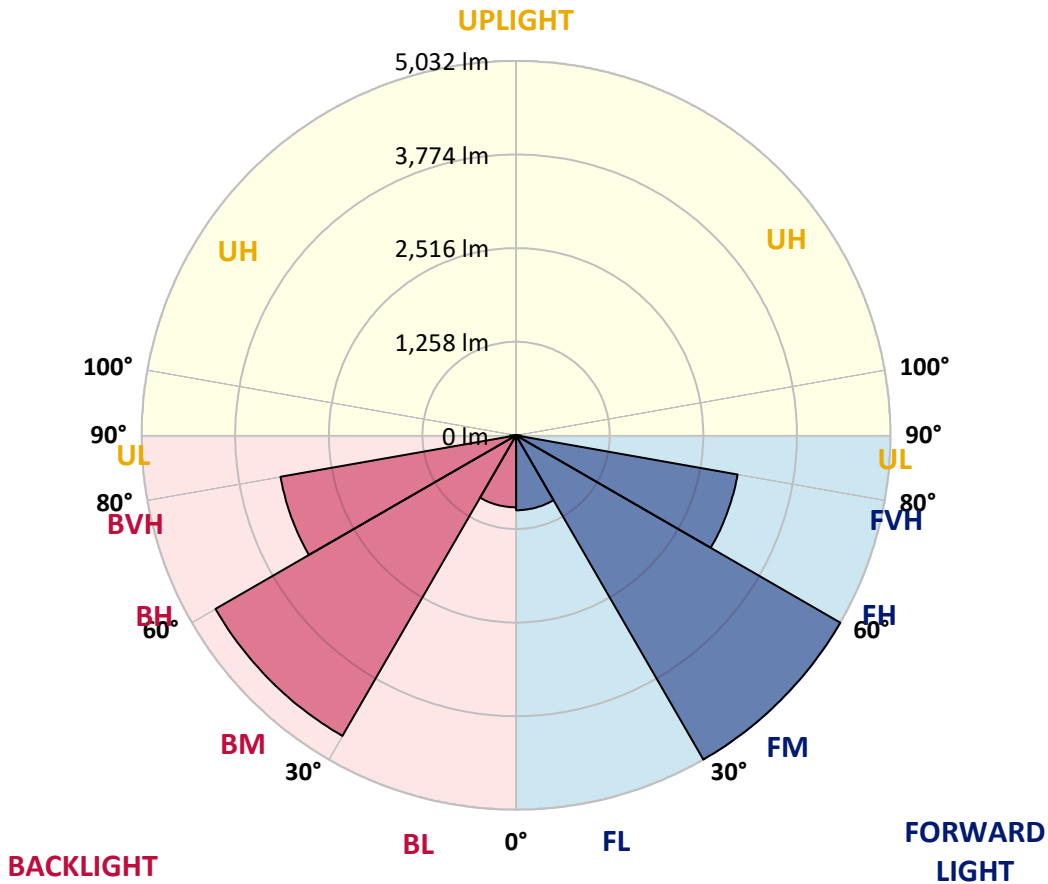
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.8	5.6			
FM (30°-60°)	5032.4	27.9			
FH (60°-80°)	3023.1	16.7			G2/5000
FVH (80°-90°)	65.5	0.4			G1/100
BL (0°-30°)	967.6	5.4	B2/1000		
BM (30°-60°)	4665.8	25.8	B3/5000		
BH (60°-80°)	3214.9	17.8	B4/5000		G4/5000
BVH (80°-90°)	80.2	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°	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3
2.5°	1790.6	1793.1	1796.9	1804.4	1812.0	1823.3	1834.6	1833.3	1838.4	1842.1	1845.9
5°	1780.5	1783.0	1789.3	1799.4	1810.7	1829.6	1853.4	1863.5	1871.1	1884.9	1897.5
7.5°	1801.9	1806.9	1815.7	1829.6	1847.2	1871.1	1903.7	1921.4	1932.7	1957.8	1979.2
10°	1830.8	1837.1	1854.7	1881.1	1907.5	1944.0	1985.5	2011.9	2019.4	2052.1	2092.4
12.5°	1858.5	1866.0	1894.9	1942.7	1990.5	2039.5	2088.6	2121.3	2123.8	2167.8	2213.1
15°	1902.5	1908.8	1947.8	2009.4	2082.3	2150.2	2210.6	2233.2	2243.3	2274.7	2331.3
17.5°	1999.3	2006.9	2057.2	2123.8	2200.5	2272.2	2332.5	2351.4	2351.4	2377.8	2424.3
20°	2103.7	2111.2	2177.9	2263.4	2356.4	2429.4	2475.9	2458.3	2452.0	2459.5	2492.2
22.5°	2220.6	2234.5	2298.6	2397.9	2512.3	2601.6	2625.5	2572.7	2555.1	2537.5	2545.0
25°	2370.3	2386.6	2449.5	2555.1	2667.0	2761.3	2775.1	2693.4	2683.4	2621.7	2599.1
27.5°	2542.5	2555.1	2633.1	2737.4	2841.8	2921.0	2936.1	2835.5	2801.6	2716.0	2663.2
30°	2765.1	2776.4	2844.3	2947.4	3037.9	3093.3	3112.1	2973.8	2947.4	2816.6	2734.9
32.5°	3007.8	3012.8	3082.0	3181.3	3261.8	3314.6	3288.2	3127.2	3088.2	2941.1	2829.2
35°	3285.7	3285.7	3374.9	3455.4	3519.5	3534.6	3484.3	3300.7	3255.5	3095.8	2956.2
37.5°	3558.5	3566.1	3649.1	3744.6	3801.2	3798.7	3706.9	3505.7	3454.2	3280.6	3126.0
40°	3854.0	3870.4	3953.4	4060.2	4114.3	4106.8	3965.9	3742.1	3689.3	3484.3	3333.4
42.5°	4125.6	4152.0	4248.9	4358.2	4417.3	4412.3	4265.2	4013.7	3962.2	3730.8	3579.9
45°	4341.9	4369.6	4490.3	4642.4	4736.7	4727.9	4579.6	4295.4	4232.5	3989.8	3823.8
47.5°	4531.8	4560.7	4695.2	4856.2	5005.8	5020.9	4885.1	4579.6	4512.9	4267.7	4080.4
50°	4677.6	4691.5	4842.4	5018.4	5191.9	5276.2	5158.0	4865.0	4784.5	4541.8	4330.6
52.5°	4666.3	4685.2	4871.3	5110.2	5342.8	5481.1	5399.4	5134.1	5056.1	4792.1	4585.8
55°	4436.2	4455.1	4676.4	5024.7	5427.1	5630.8	5622.0	5390.6	5334.0	5047.3	4851.2
57.5°	4100.5	4142.0	4362.0	4738.0	5316.4	5750.2	5785.4	5624.5	5565.4	5297.5	5114.0
60°	3499.4	3554.8	3808.8	4296.6	4961.8	5710.0	5960.2	5821.9	5785.4	5530.2	5351.6
62.5°	2542.5	2582.8	2921.0	3561.0	4436.2	5423.3	6107.3	6025.6	5997.9	5738.9	5566.6
65°	1522.7	1614.5	1886.1	2518.6	3578.6	4882.6	6026.9	6292.2	6263.3	5953.9	5750.2
67.5°	770.8	812.3	919.2	1365.6	2406.7	4040.1	5623.2	6458.2	6493.4	6137.5	5815.6
70°	477.8	489.1	519.3	674.0	1202.1	2654.4	4598.4	6025.6	6197.9	6108.6	5645.9
72.5°	383.5	386.0	391.1	420.0	577.2	1241.1	2907.2	4719.1	5029.7	5705.0	5403.2
75°	318.1	319.4	320.6	329.4	359.6	506.7	1414.6	3242.9	3606.3	4848.6	5009.6
77.5°	255.3	249.0	254.0	257.8	265.3	282.9	487.9	1730.2	2098.6	3182.6	3874.1
80°	166.0	163.5	173.5	177.3	184.8	196.2	260.3	587.2	713.0	1158.1	1232.3
82.5°	89.3	84.2	105.6	101.9	105.6	114.4	153.4	215.0	241.4	349.6	295.5
85°	27.7	27.7	28.9	34.0	41.5	40.2	66.6	105.6	116.9	149.6	110.7
87.5°	5.0	5.0	5.0	5.0	5.0	6.3	13.8	21.4	28.9	51.6	39.0
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°	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3	1828.3
2.5°	1853.4	1842.1	1848.4	1852.2	1850.9	1848.4	1835.8	1833.3	1827.0	1817.0	1814.5
5°	1908.8	1896.2	1897.5	1893.7	1881.1	1864.8	1837.1	1823.3	1812.0	1799.4	1798.1
7.5°	1995.5	1981.7	1977.9	1960.3	1925.1	1887.4	1843.4	1818.2	1799.4	1783.0	1780.5
10°	2106.2	2092.4	2079.8	2038.3	1980.4	1930.2	1872.3	1835.8	1808.2	1788.1	1784.3
12.5°	2229.4	2218.1	2186.7	2126.3	2057.2	1998.1	1939.0	1893.7	1853.4	1823.3	1819.5
15°	2366.5	2341.3	2293.5	2215.6	2150.2	2102.4	2030.7	1969.1	1905.0	1864.8	1856.0
17.5°	2462.0	2440.7	2384.1	2308.6	2257.1	2215.6	2131.3	2043.3	1956.6	1897.5	1884.9
20°	2529.9	2507.3	2443.2	2387.9	2371.5	2336.3	2238.2	2136.4	2035.8	1962.8	1946.5
22.5°	2579.0	2555.1	2489.7	2462.0	2484.7	2478.4	2382.8	2267.1	2147.7	2060.9	2040.8
25°	2625.5	2602.9	2545.0	2555.1	2615.5	2634.3	2531.2	2396.7	2260.9	2159.0	2135.1
27.5°	2669.5	2640.6	2614.2	2669.5	2755.0	2790.2	2680.8	2528.7	2381.6	2277.2	2258.3
30°	2737.4	2703.5	2699.7	2780.2	2916.0	2946.2	2825.4	2673.3	2527.4	2421.8	2397.9
32.5°	2822.9	2791.5	2794.0	2914.7	3071.9	3097.0	2993.9	2851.8	2706.0	2600.4	2567.7
35°	2938.6	2899.6	2921.0	3069.4	3227.8	3274.3	3191.4	3073.2	2931.1	2822.9	2786.5
37.5°	3098.3	3041.7	3085.7	3241.7	3401.3	3470.5	3406.4	3318.4	3177.5	3068.1	3034.2
40°	3302.0	3255.5	3273.1	3445.4	3610.1	3693.1	3652.8	3566.1	3426.5	3312.1	3273.1
42.5°	3543.4	3496.9	3490.6	3674.2	3838.9	3964.7	3925.7	3846.5	3701.9	3571.1	3533.4
45°	3779.8	3737.1	3745.9	3933.2	4118.1	4255.1	4216.2	4123.1	3965.9	3815.0	3784.9
47.5°	4026.3	3991.1	3998.6	4197.3	4401.0	4538.1	4489.0	4375.9	4192.3	4031.3	3994.9
50°	4279.0	4238.8	4250.1	4458.8	4678.9	4808.4	4733.0	4565.7	4363.3	4206.1	4174.7
52.5°	4530.5	4482.7	4511.7	4709.1	4936.7	5039.8	4900.2	4697.8	4501.6	4345.7	4310.5
55°	4819.7	4769.4	4738.0	4949.2	5174.3	5217.1	5025.9	4789.5	4556.9	4379.6	4358.2
57.5°	5083.8	5041.0	4981.9	5193.2	5359.2	5327.7	5122.8	4764.4	4422.4	4194.8	4164.6
60°	5320.2	5283.7	5232.2	5412.0	5487.4	5417.0	5044.8	4466.4	4090.4	3852.8	3838.9
62.5°	5537.7	5498.7	5451.0	5604.4	5594.3	5430.8	4690.2	4008.7	3505.7	3250.5	3227.8
65°	5710.0	5674.8	5660.9	5781.7	5765.3	5160.5	4138.2	3259.3	2561.4	2273.4	2264.6
67.5°	5759.0	5745.2	5819.4	6024.3	5769.1	4617.3	3245.4	2161.5	1375.6	1102.8	1086.4
70°	5575.4	5574.2	5786.7	6079.7	5246.0	3527.1	1915.1	974.5	691.6	613.6	603.6
72.5°	5336.5	5332.8	5501.2	5244.7	3890.5	1930.2	806.0	521.8	432.6	411.2	411.2
75°	4944.2	4934.1	5061.1	3989.8	2187.9	726.8	427.5	358.4	339.5	335.7	335.7
77.5°	4030.1	3945.8	3745.9	2465.8	763.3	357.1	282.9	281.7	270.3	269.1	269.1
80°	1325.3	1325.3	1540.3	940.6	337.0	220.0	199.9	210.0	198.7	191.1	189.9
82.5°	216.3	298.0	423.8	269.1	182.3	137.1	123.2	130.8	137.1	109.4	109.4
85°	85.5	111.9	163.5	125.7	84.2	55.3	59.1	65.4	57.8	50.3	49.0
87.5°	32.7	40.2	57.8	30.2	17.6	10.1	6.3	6.3	5.0	5.0	5.0
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)