

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: P639183

Luminaire Tested: GWS-SA5B-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639183
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-SA5B-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18027.8 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

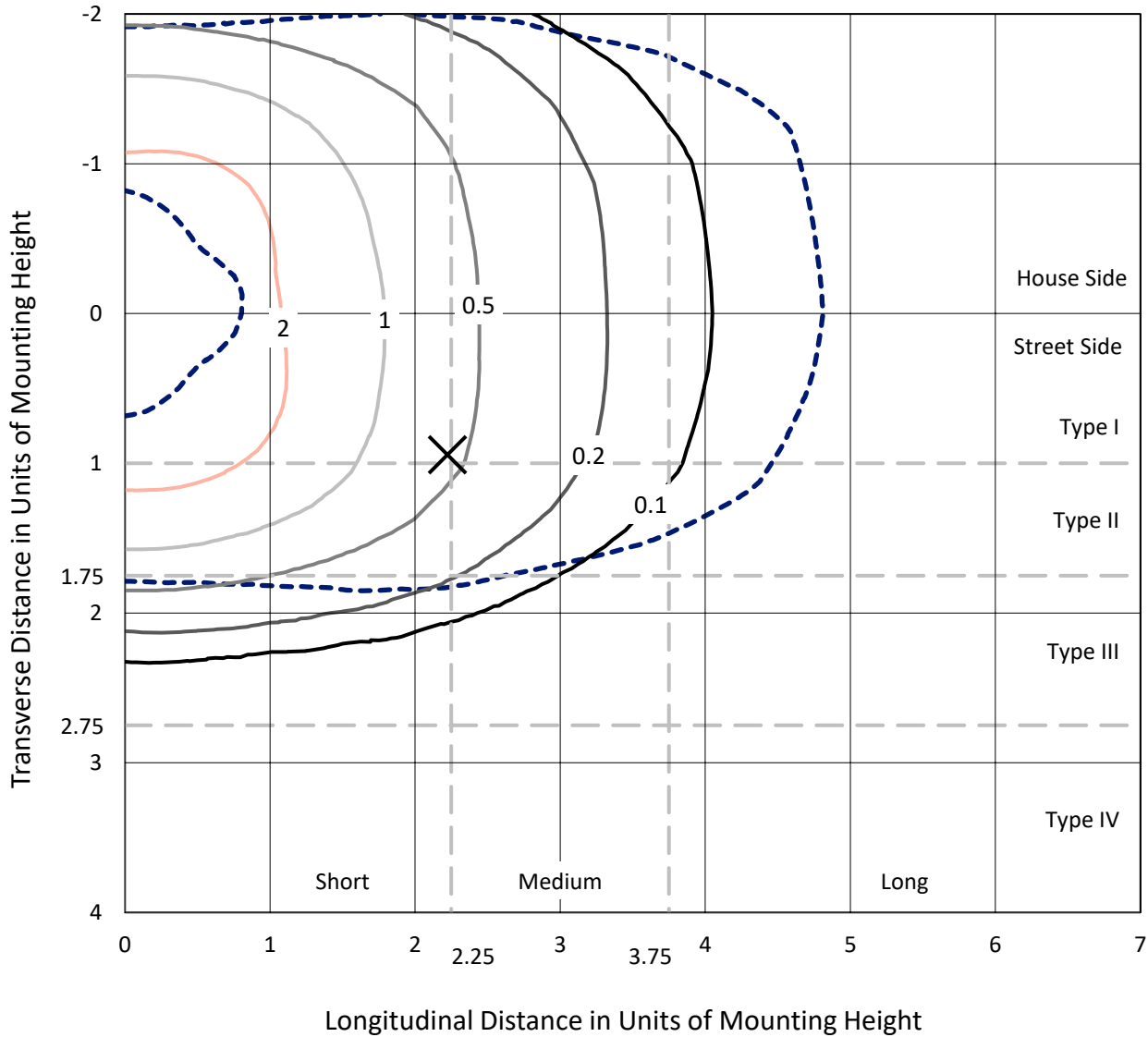
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

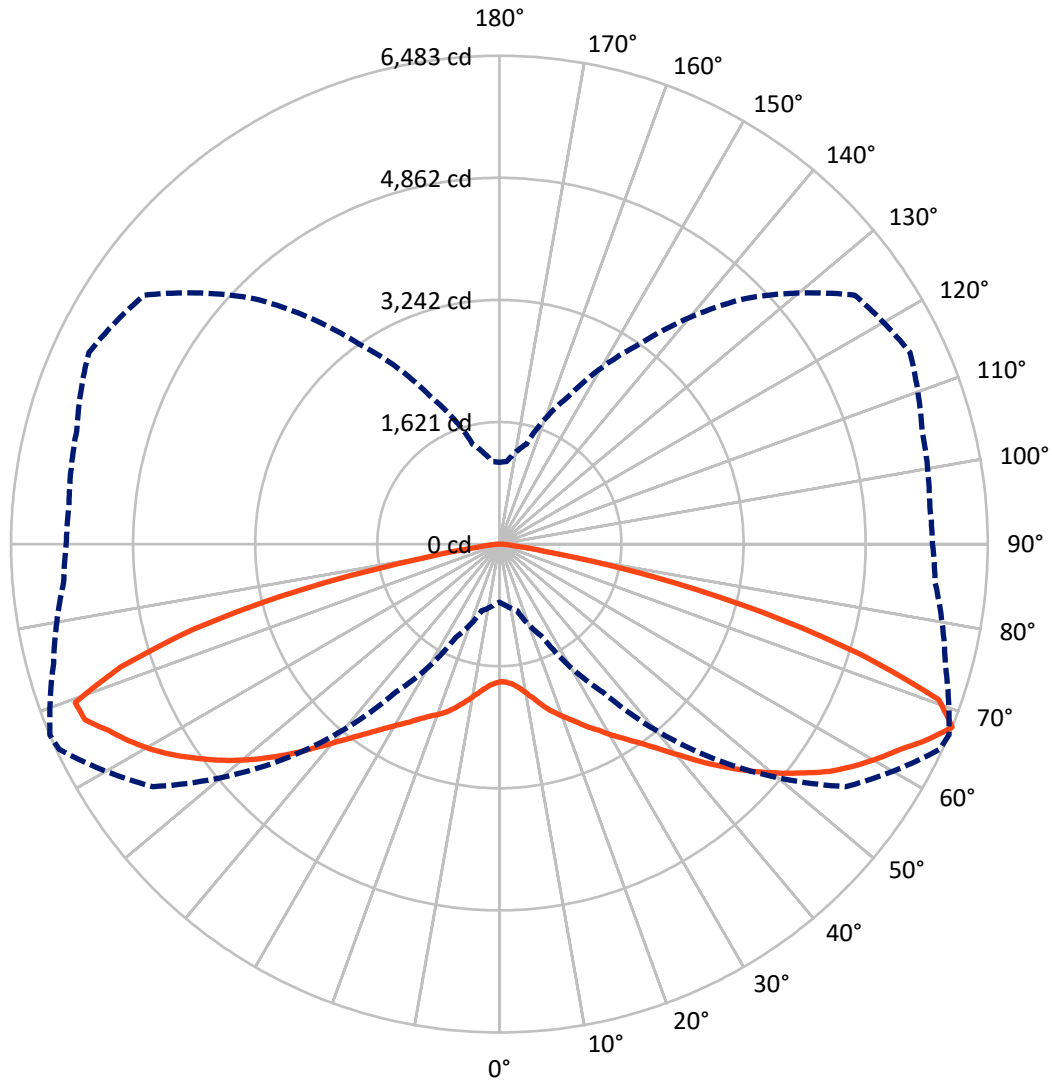
✕ Max cd
 - - - 1/2 Max cd



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	8914.4	0.0	8914.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	9113.4	0.0	9113.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	18027.8	0.0	18027.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	1.0
10°-20°	605.1	3.4
20°-30°	1187.1	6.6
30°-40°	2022.4	11.2
40°-50°	3247.6	18.0
50°-60°	4412.9	24.5
60°-70°	4221.2	23.4
70°-80°	2006.9	11.1
80°-90°	145.4	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°	18027.8	100.0
0°-180°	18027.8	100.0

Coefficient of Utilization



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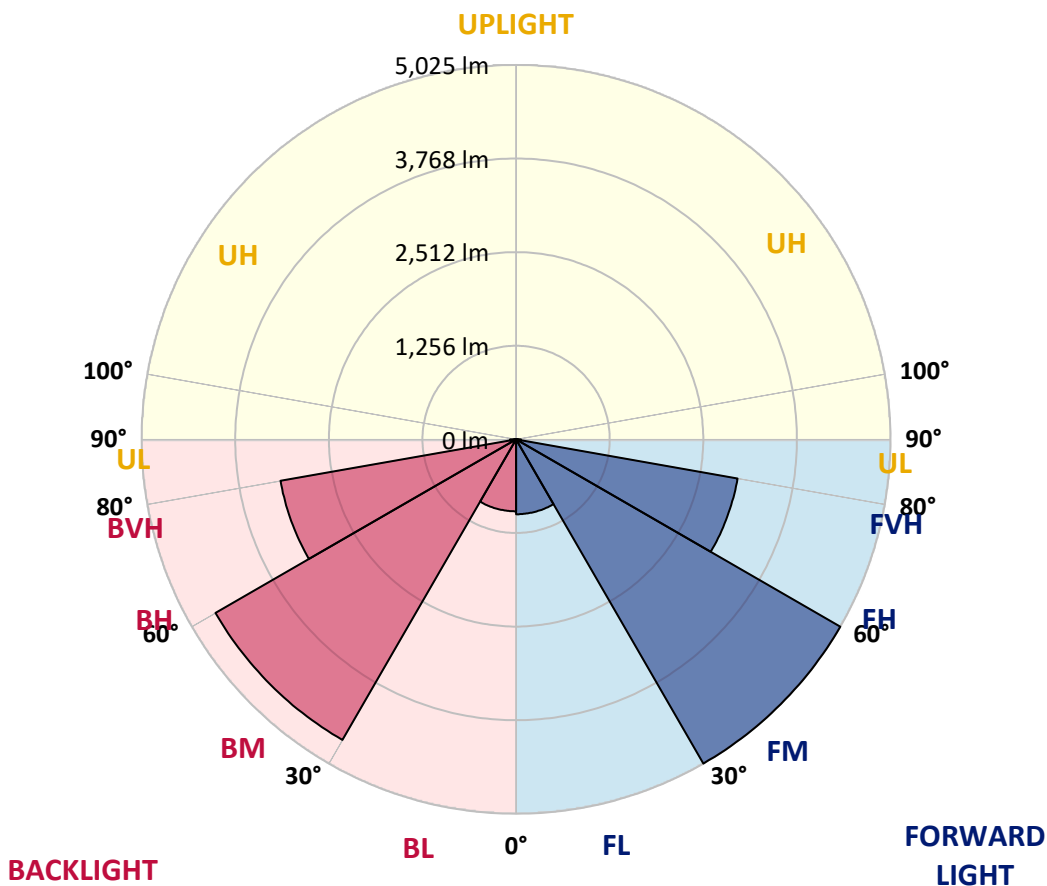
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.2	5.6			
FM (30°-60°)	5024.5	27.9			
FH (60°-80°)	3018.3	16.7			G2/5000
FVH (80°-90°)	65.4	0.4			G1/100
BL (0°-30°)	966.1	5.4	B2/1000		
BM (30°-60°)	4658.5	25.8	B3/5000		
BH (60°-80°)	3209.8	17.8	B4/5000		G4/5000
BVH (80°-90°)	80.1	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°	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	1787.8	1790.3	1794.0	1801.6	1809.1	1820.4	1831.7	1830.4	1835.5	1839.2	1843.0
5°	1777.7	1780.2	1786.5	1796.5	1807.8	1826.7	1850.5	1860.6	1868.1	1881.9	1894.5
7.5°	1799.1	1804.1	1812.9	1826.7	1844.2	1868.1	1900.7	1918.3	1929.6	1954.7	1976.1
10°	1827.9	1834.2	1851.8	1878.1	1904.5	1940.9	1982.3	2008.7	2016.2	2048.9	2089.1
12.5°	1855.5	1863.1	1892.0	1939.7	1987.4	2036.3	2085.3	2117.9	2120.4	2164.4	2209.6
15°	1899.5	1905.8	1944.7	2006.2	2079.0	2146.8	2207.1	2229.7	2239.7	2271.1	2327.6
17.5°	1996.2	2003.7	2053.9	2120.4	2197.0	2268.6	2328.8	2347.7	2347.7	2374.0	2420.5
20°	2100.4	2107.9	2174.4	2259.8	2352.7	2425.5	2472.0	2454.4	2448.1	2455.6	2488.3
22.5°	2217.1	2230.9	2295.0	2394.1	2508.4	2597.5	2621.4	2568.6	2551.1	2533.5	2541.0
25°	2366.5	2382.8	2445.6	2551.1	2662.8	2757.0	2770.8	2689.2	2679.1	2617.6	2595.0
27.5°	2538.5	2551.1	2628.9	2733.1	2837.3	2916.4	2931.5	2831.0	2797.1	2711.8	2659.0
30°	2760.7	2772.0	2839.8	2942.8	3033.2	3088.4	3107.2	2969.1	2942.8	2812.2	2730.6
32.5°	3003.0	3008.0	3077.1	3176.3	3256.6	3309.3	3283.0	3122.3	3083.4	2936.5	2824.7
35°	3280.5	3280.5	3369.6	3450.0	3514.0	3529.1	3478.8	3295.5	3250.3	3090.9	2951.5
37.5°	3552.9	3560.4	3643.3	3738.7	3795.2	3792.7	3701.0	3500.2	3448.7	3275.5	3121.0
40°	3847.9	3864.3	3947.1	4053.8	4107.8	4100.3	3959.7	3736.2	3683.5	3478.8	3328.2
42.5°	4119.1	4145.5	4242.1	4351.4	4410.4	4405.4	4258.5	4007.4	3955.9	3724.9	3574.2
45°	4335.0	4362.7	4483.2	4635.1	4729.3	4720.5	4572.3	4288.6	4225.8	3983.5	3817.8
47.5°	4524.6	4553.5	4687.8	4848.5	4997.9	5013.0	4877.4	4572.3	4505.8	4261.0	4073.9
50°	4670.3	4684.1	4834.7	5010.5	5183.7	5267.8	5149.8	4857.3	4777.0	4534.7	4323.7
52.5°	4659.0	4677.8	4863.6	5102.1	5334.4	5472.5	5390.9	5126.0	5048.1	4784.5	4578.6
55°	4429.2	4448.0	4669.0	5016.8	5418.5	5621.9	5613.1	5382.1	5325.6	5039.4	4843.5
57.5°	4094.0	4135.4	4355.1	4730.5	5308.0	5741.1	5776.3	5615.6	5556.6	5289.2	5105.9
60°	3493.9	3549.1	3802.7	4289.9	4954.0	5701.0	5950.8	5812.7	5776.3	5521.4	5343.2
62.5°	2538.5	2578.7	2916.4	3555.4	4429.2	5414.7	6097.7	6016.1	5988.5	5729.8	5557.8
65°	1520.3	1612.0	1883.2	2514.7	3573.0	4874.9	6017.3	6282.2	6253.4	5944.5	5741.1
67.5°	769.6	811.0	917.7	1363.4	2402.9	4033.7	5614.3	6448.0	6483.1	6127.8	5806.4
70°	477.1	488.4	518.5	672.9	1200.2	2650.2	4591.2	6016.1	6188.1	6098.9	5636.9
72.5°	382.9	385.4	390.4	419.3	576.2	1239.1	2902.6	4711.7	5021.8	5695.9	5394.6
75°	317.6	318.9	320.1	328.9	359.1	505.9	1412.4	3237.8	3600.6	4841.0	5001.7
77.5°	254.9	248.6	253.6	257.4	264.9	282.5	487.1	1727.5	2095.3	3177.5	3868.0
80°	165.7	163.2	173.3	177.0	184.6	195.8	259.9	586.3	711.8	1156.3	1230.3
82.5°	89.1	84.1	105.5	101.7	105.5	114.2	153.2	214.7	241.0	349.0	295.0
85°	27.6	27.6	28.9	33.9	41.4	40.2	66.5	105.5	116.8	149.4	110.5
87.5°	5.0	5.0	5.0	5.0	5.0	6.3	13.8	21.3	28.9	51.5	38.9
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°	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4	1825.4
2.5°	1850.5	1839.2	1845.5	1849.3	1848.0	1845.5	1832.9	1830.4	1824.2	1814.1	1811.6
5°	1905.8	1893.2	1894.5	1890.7	1878.1	1861.8	1834.2	1820.4	1809.1	1796.5	1795.3
7.5°	1992.4	1978.6	1974.8	1957.2	1922.1	1884.4	1840.5	1815.4	1796.5	1780.2	1777.7
10°	2102.9	2089.1	2076.5	2035.1	1977.3	1927.1	1869.4	1832.9	1805.3	1785.2	1781.5
12.5°	2225.9	2214.6	2183.2	2123.0	2053.9	1994.9	1935.9	1890.7	1850.5	1820.4	1816.6
15°	2362.7	2337.6	2289.9	2212.1	2146.8	2099.1	2027.5	1966.0	1902.0	1861.8	1853.0
17.5°	2458.2	2436.8	2380.3	2305.0	2253.5	2212.1	2128.0	2040.1	1953.5	1894.5	1881.9
20°	2526.0	2503.4	2439.3	2384.1	2367.8	2332.6	2234.7	2133.0	2032.6	1959.7	1943.4
22.5°	2574.9	2551.1	2485.8	2458.2	2480.8	2474.5	2379.1	2263.6	2144.3	2057.7	2037.6
25°	2621.4	2598.8	2541.0	2551.1	2611.3	2630.2	2527.2	2392.9	2257.3	2155.6	2131.7
27.5°	2665.3	2636.4	2610.1	2665.3	2750.7	2785.8	2676.6	2524.7	2377.8	2273.6	2254.8
30°	2733.1	2699.2	2695.4	2775.8	2911.4	2941.5	2821.0	2669.1	2523.4	2418.0	2394.1
32.5°	2818.5	2787.1	2789.6	2910.1	3067.0	3092.2	2989.2	2847.3	2701.7	2596.3	2563.6
35°	2934.0	2895.1	2916.4	3064.5	3222.7	3269.2	3186.3	3068.3	2926.4	2818.5	2782.1
37.5°	3093.4	3036.9	3080.9	3236.5	3396.0	3465.0	3401.0	3313.1	3172.5	3063.3	3029.4
40°	3296.8	3250.3	3267.9	3439.9	3604.4	3687.2	3647.1	3560.4	3421.1	3306.8	3267.9
42.5°	3537.8	3491.4	3485.1	3668.4	3832.9	3958.4	3919.5	3840.4	3696.0	3565.5	3527.8
45°	3773.9	3731.2	3740.0	3927.0	4111.6	4248.4	4209.5	4116.6	3959.7	3809.0	3778.9
47.5°	4019.9	3984.8	3992.3	4190.7	4394.1	4530.9	4481.9	4368.9	4185.6	4025.0	3988.5
50°	4272.3	4232.1	4243.4	4451.8	4671.5	4800.8	4725.5	4558.5	4356.4	4199.5	4168.1
52.5°	4523.4	4475.7	4504.5	4701.6	4928.9	5031.8	4892.5	4690.3	4494.5	4338.8	4303.7
55°	4812.1	4761.9	4730.5	4941.4	5166.2	5208.8	5018.0	4782.0	4549.7	4372.7	4351.4
57.5°	5075.8	5033.1	4974.1	5185.0	5350.7	5319.3	5114.7	4756.9	4415.4	4188.2	4158.0
60°	5311.8	5275.4	5223.9	5403.4	5478.8	5408.5	5036.8	4459.3	4084.0	3846.7	3832.9
62.5°	5529.0	5490.1	5442.3	5595.5	5585.5	5422.3	4682.8	4002.4	3500.2	3245.3	3222.7
65°	5701.0	5665.8	5652.0	5772.5	5756.2	5152.3	4131.7	3254.1	2557.3	2269.8	2261.1
67.5°	5749.9	5736.1	5810.2	6014.8	5760.0	4610.0	3240.3	2158.1	1373.5	1101.0	1084.7
70°	5566.6	5565.4	5777.6	6070.1	5237.7	3521.5	1912.0	973.0	690.5	612.7	602.6
72.5°	5328.1	5324.3	5492.6	5236.5	3884.3	1927.1	804.7	521.0	431.9	410.5	410.5
75°	4936.4	4926.4	5053.2	3983.5	2184.5	725.6	426.9	357.8	339.0	335.2	335.2
77.5°	4023.7	3939.6	3740.0	2461.9	762.1	356.5	282.5	281.2	269.9	268.7	268.7
80°	1323.2	1323.2	1537.9	939.1	336.5	219.7	199.6	209.7	198.4	190.8	189.6
82.5°	215.9	297.5	423.1	268.7	182.0	136.8	123.0	130.6	136.8	109.2	109.2
85°	85.4	111.7	163.2	125.5	84.1	55.2	59.0	65.3	57.8	50.2	49.0
87.5°	32.6	40.2	57.8	30.1	17.6	10.0	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)