

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: P639238

Luminaire Tested: GWS-SA5B-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639238
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-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
RECTANGULAR WIDE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18278.3 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

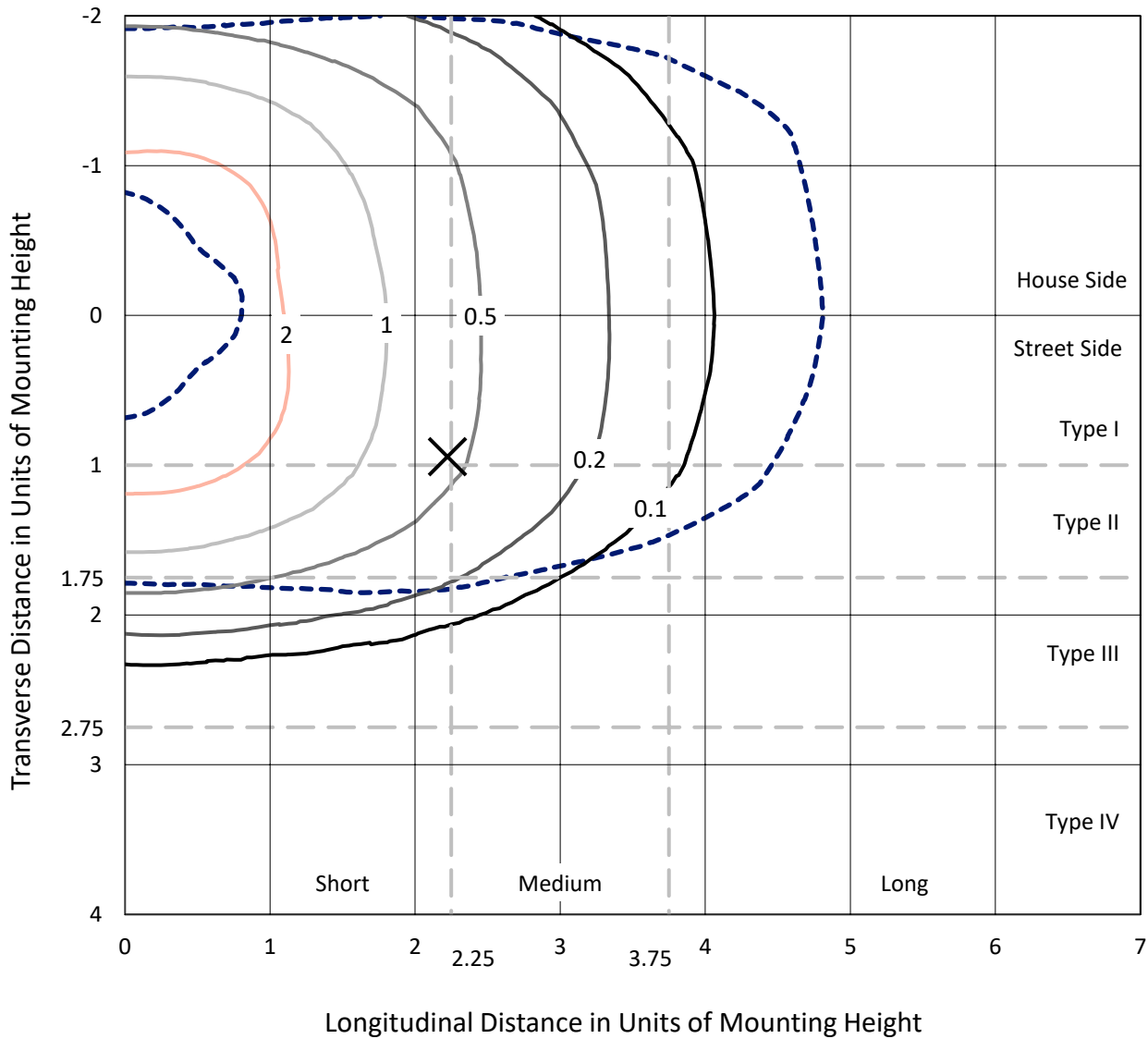
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

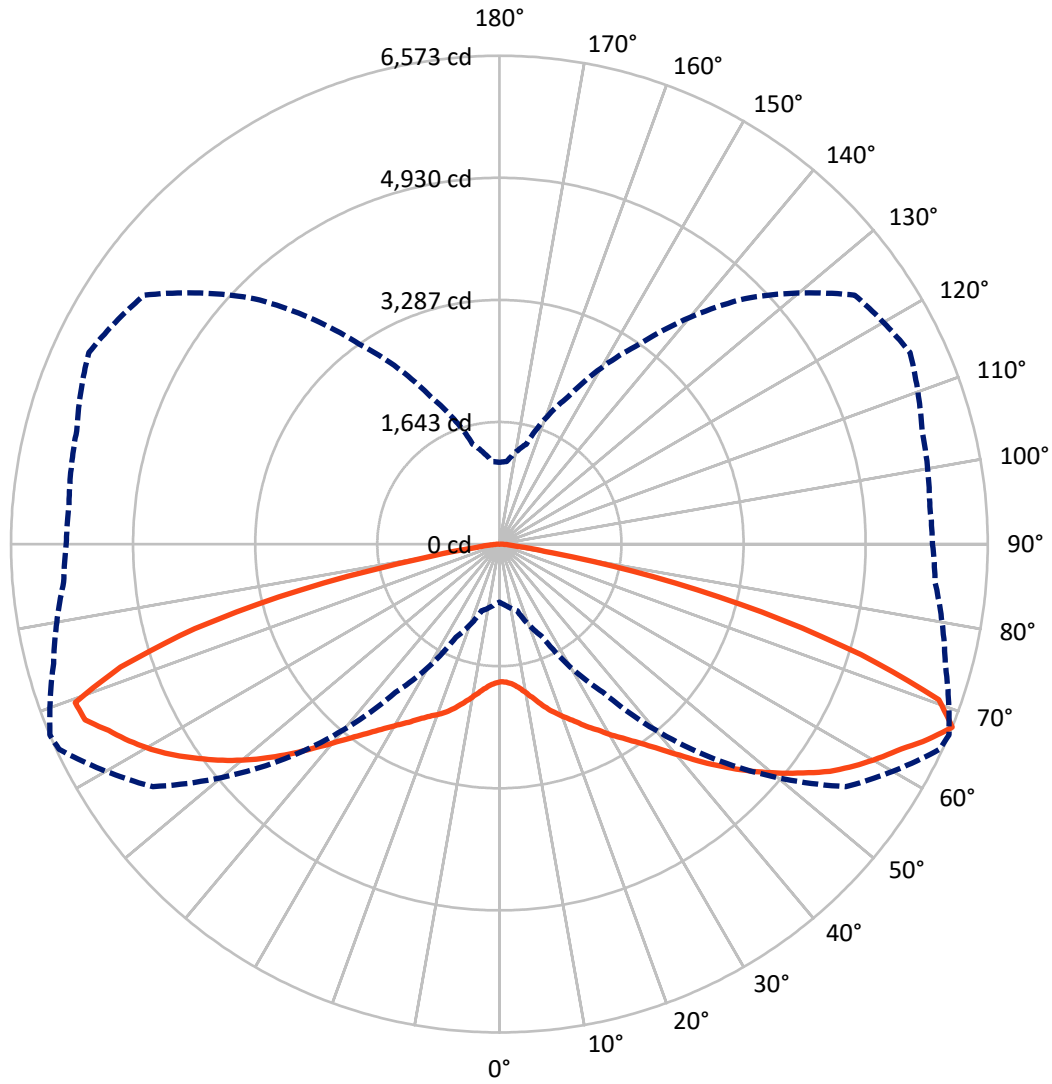
✕ Max cd
 - - - 1/2 Max cd



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	9038.3	0.0	9038.3
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	9240.0	0.0	9240.0
	% Fixture	50.6	0.0	50.6
Total	Lumens	18278.3	0.0	18278.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	1.0
10°-20°	613.5	3.4
20°-30°	1203.6	6.6
30°-40°	2050.6	11.2
40°-50°	3292.8	18.0
50°-60°	4474.2	24.5
60°-70°	4279.9	23.4
70°-80°	2034.8	11.1
80°-90°	147.5	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°	18278.3	100.0
0°-180°	18278.3	100.0

Coefficient of Utilization



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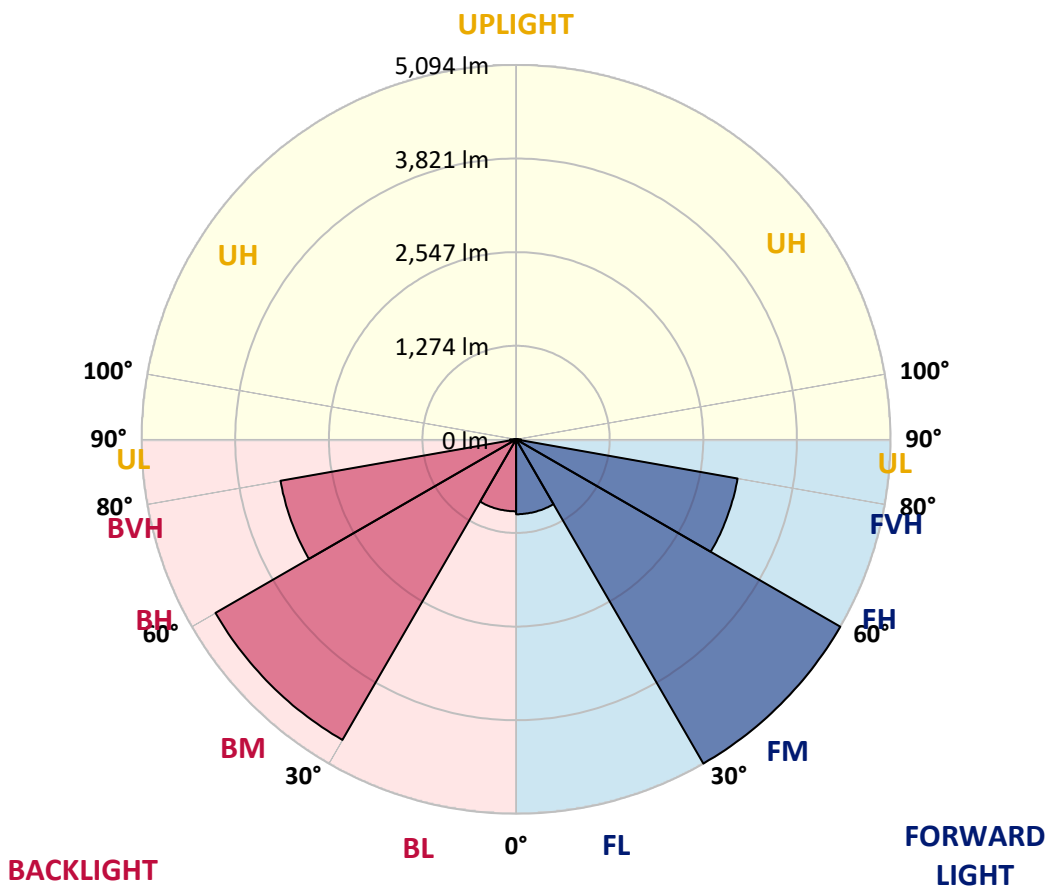
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.2	5.6			
FM (30°-60°)	5094.3	27.9			
FH (60°-80°)	3060.3	16.7			G2/5000
FVH (80°-90°)	66.3	0.4			G1/100
BL (0°-30°)	979.5	5.4	B2/1000		
BM (30°-60°)	4723.2	25.8	B3/5000		
BH (60°-80°)	3254.4	17.8	B4/5000		G4/5000
BVH (80°-90°)	81.2	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°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	1812.6	1815.1	1819.0	1826.6	1834.2	1845.7	1857.1	1855.9	1861.0	1864.8	1868.6
5°	1802.4	1805.0	1811.3	1821.5	1833.0	1852.1	1876.2	1886.4	1894.1	1908.1	1920.8
7.5°	1824.0	1829.1	1838.1	1852.1	1869.9	1894.1	1927.2	1945.0	1956.4	1981.9	2003.5
10°	1853.3	1859.7	1877.5	1904.2	1931.0	1967.9	2009.9	2036.6	2044.3	2077.4	2118.1
12.5°	1881.3	1889.0	1918.2	1966.6	2015.0	2064.6	2114.3	2147.4	2149.9	2194.5	2240.3
15°	1925.9	1932.2	1971.7	2034.1	2107.9	2176.6	2237.7	2260.6	2270.8	2302.7	2359.9
17.5°	2023.9	2031.5	2082.4	2149.9	2227.6	2300.1	2361.2	2380.3	2380.3	2407.0	2454.1
20°	2129.5	2137.2	2204.6	2291.2	2385.4	2459.2	2506.3	2488.5	2482.1	2489.8	2522.9
22.5°	2247.9	2261.9	2326.8	2427.4	2543.2	2633.6	2657.8	2604.3	2586.5	2568.7	2576.3
25°	2399.4	2415.9	2479.6	2586.5	2699.8	2795.3	2809.3	2726.5	2716.3	2654.0	2631.1
27.5°	2573.8	2586.5	2665.4	2771.1	2876.7	2956.9	2972.2	2870.4	2836.0	2749.4	2696.0
30°	2799.1	2810.5	2879.3	2983.7	3075.3	3131.3	3150.4	3010.4	2983.7	2851.3	2768.5
32.5°	3044.7	3049.8	3119.8	3220.4	3301.9	3355.3	3328.6	3165.7	3126.2	2977.3	2864.0
35°	3326.1	3326.1	3416.4	3497.9	3562.8	3578.1	3527.2	3341.3	3295.5	3133.9	2992.6
37.5°	3602.3	3609.9	3693.9	3790.7	3847.9	3845.4	3752.5	3548.8	3496.6	3321.0	3164.4
40°	3901.4	3918.0	4002.0	4110.2	4164.9	4157.3	4014.7	3788.1	3734.7	3527.2	3374.4
42.5°	4176.3	4203.1	4301.1	4411.8	4471.7	4466.6	4317.6	4063.1	4010.9	3776.7	3623.9
45°	4395.3	4423.3	4545.5	4699.5	4795.0	4786.1	4635.9	4348.2	4284.5	4038.9	3870.9
47.5°	4587.5	4616.8	4753.0	4915.9	5067.4	5082.6	4945.2	4635.9	4568.4	4320.2	4130.5
50°	4735.1	4749.1	4901.9	5080.1	5255.8	5341.0	5221.4	4924.8	4843.3	4597.7	4383.8
52.5°	4723.7	4742.8	4931.2	5173.0	5408.5	5548.5	5465.8	5197.2	5118.3	4851.0	4642.2
55°	4490.8	4509.8	4733.9	5086.5	5493.8	5700.0	5691.1	5456.9	5399.6	5109.4	4910.8
57.5°	4150.9	4192.9	4415.6	4796.2	5381.8	5820.9	5856.6	5693.6	5633.8	5362.7	5176.8
60°	3542.4	3598.5	3855.6	4349.5	5022.8	5780.2	6033.5	5893.5	5856.6	5598.2	5417.4
62.5°	2573.8	2614.5	2956.9	3604.8	4490.8	5490.0	6182.4	6099.7	6071.7	5809.5	5635.1
65°	1541.5	1634.4	1909.3	2549.6	3622.6	4942.6	6101.0	6369.5	6340.3	6027.1	5820.9
67.5°	780.3	822.3	930.5	1382.4	2436.3	4089.8	5692.4	6537.6	6573.2	6213.0	5887.1
70°	483.7	495.2	525.7	682.3	1216.9	2687.1	4655.0	6099.7	6274.1	6183.7	5715.3
72.5°	388.2	390.8	395.9	425.1	584.3	1256.3	2942.9	4777.2	5091.6	5775.1	5469.6
75°	322.0	323.3	324.6	333.5	364.0	513.0	1432.0	3282.8	3650.6	4908.3	5071.2
77.5°	258.4	252.0	257.1	260.9	268.6	286.4	493.9	1751.5	2124.5	3221.7	3921.8
80°	168.0	165.5	175.7	179.5	187.1	198.6	263.5	594.4	721.7	1172.3	1247.4
82.5°	90.4	85.3	106.9	103.1	106.9	115.8	155.3	217.7	244.4	353.9	299.1
85°	28.0	28.0	29.3	34.4	42.0	40.7	67.5	106.9	118.4	151.5	112.0
87.5°	5.1	5.1	5.1	5.1	5.1	6.4	14.0	21.6	29.3	52.2	39.5
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°	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8	1850.8
2.5°	1876.2	1864.8	1871.1	1875.0	1873.7	1871.1	1858.4	1855.9	1849.5	1839.3	1836.8
5°	1932.2	1919.5	1920.8	1917.0	1904.2	1887.7	1859.7	1845.7	1834.2	1821.5	1820.2
7.5°	2020.1	2006.1	2002.3	1984.4	1948.8	1910.6	1866.1	1840.6	1821.5	1805.0	1802.4
10°	2132.1	2118.1	2105.4	2063.4	2004.8	1953.9	1895.3	1858.4	1830.4	1810.0	1806.2
12.5°	2256.8	2245.4	2213.6	2152.5	2082.4	2022.6	1962.8	1917.0	1876.2	1845.7	1841.9
15°	2395.6	2370.1	2321.7	2242.8	2176.6	2128.3	2055.7	1993.3	1928.4	1887.7	1878.8
17.5°	2492.3	2470.7	2413.4	2337.0	2284.8	2242.8	2157.5	2068.4	1980.6	1920.8	1908.1
20°	2561.1	2538.1	2473.2	2417.2	2400.7	2365.0	2265.7	2162.6	2060.8	1987.0	1970.4
22.5°	2610.7	2586.5	2520.3	2492.3	2515.2	2508.9	2412.1	2295.0	2174.1	2086.3	2065.9
25°	2657.8	2634.9	2576.3	2586.5	2647.6	2666.7	2562.3	2426.1	2288.7	2185.5	2161.4
27.5°	2702.3	2673.1	2646.3	2702.3	2788.9	2824.5	2713.8	2559.8	2410.9	2305.2	2286.1
30°	2771.1	2736.7	2732.9	2814.4	2951.8	2982.4	2860.2	2706.2	2558.5	2451.6	2427.4
32.5°	2857.6	2825.8	2828.4	2950.6	3109.7	3135.1	3030.7	2886.9	2739.3	2632.3	2599.2
35°	2974.7	2935.3	2956.9	3107.1	3267.5	3314.6	3230.6	3110.9	2967.1	2857.6	2820.7
37.5°	3136.4	3079.1	3123.7	3281.5	3443.2	3513.2	3448.3	3359.2	3216.6	3105.8	3071.5
40°	3342.6	3295.5	3313.3	3487.7	3654.5	3738.5	3697.7	3609.9	3468.6	3352.8	3313.3
42.5°	3587.0	3539.9	3533.5	3719.4	3886.1	4013.4	3974.0	3893.8	3747.4	3615.0	3576.8
45°	3826.3	3783.0	3791.9	3981.6	4168.7	4307.5	4268.0	4173.8	4014.7	3861.9	3831.4
47.5°	4075.8	4040.1	4047.8	4248.9	4455.1	4593.9	4544.2	4429.7	4243.8	4080.9	4044.0
50°	4331.6	4290.9	4302.4	4513.7	4736.4	4867.5	4791.2	4621.9	4416.9	4257.8	4226.0
52.5°	4586.2	4537.8	4567.1	4767.0	4997.4	5101.7	4960.4	4755.5	4556.9	4399.1	4363.5
55°	4879.0	4828.1	4796.2	5010.1	5237.9	5281.2	5087.7	4848.4	4612.9	4433.5	4411.8
57.5°	5146.3	5103.0	5043.2	5257.0	5425.1	5393.2	5185.7	4823.0	4476.7	4246.4	4215.8
60°	5385.6	5348.7	5296.5	5478.5	5554.9	5483.6	5106.8	4521.3	4140.7	3900.1	3886.1
62.5°	5605.8	5566.3	5518.0	5673.3	5663.1	5497.6	4747.9	4058.0	3548.8	3290.4	3267.5
65°	5780.2	5744.5	5730.5	5852.7	5836.2	5223.9	4189.1	3299.3	2592.9	2301.4	2292.5
67.5°	5829.8	5815.8	5890.9	6098.4	5840.0	4674.0	3285.3	2188.1	1392.5	1116.3	1099.8
70°	5644.0	5642.7	5857.8	6154.4	5310.5	3570.5	1938.6	986.5	700.1	621.2	611.0
72.5°	5402.1	5398.3	5568.9	5309.2	3938.3	1953.9	815.9	528.2	437.9	416.2	416.2
75°	5005.0	4994.8	5123.4	4038.9	2214.8	735.7	432.8	362.8	343.7	339.9	339.9
77.5°	4079.6	3994.3	3791.9	2496.1	772.6	361.5	286.4	285.1	273.7	272.4	272.4
80°	1341.6	1341.6	1559.3	952.1	341.1	222.8	202.4	212.6	201.1	193.5	192.2
82.5°	218.9	301.7	429.0	272.4	184.6	138.7	124.7	132.4	138.7	110.7	110.7
85°	86.6	113.3	165.5	127.3	85.3	56.0	59.8	66.2	58.6	50.9	49.6
87.5°	33.1	40.7	58.6	30.5	17.8	10.2	6.4	6.4	5.1	5.1	5.1
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)