

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: P633903

Luminaire Tested: GWS-SA2F-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633903
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-SA2F-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16848.6 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

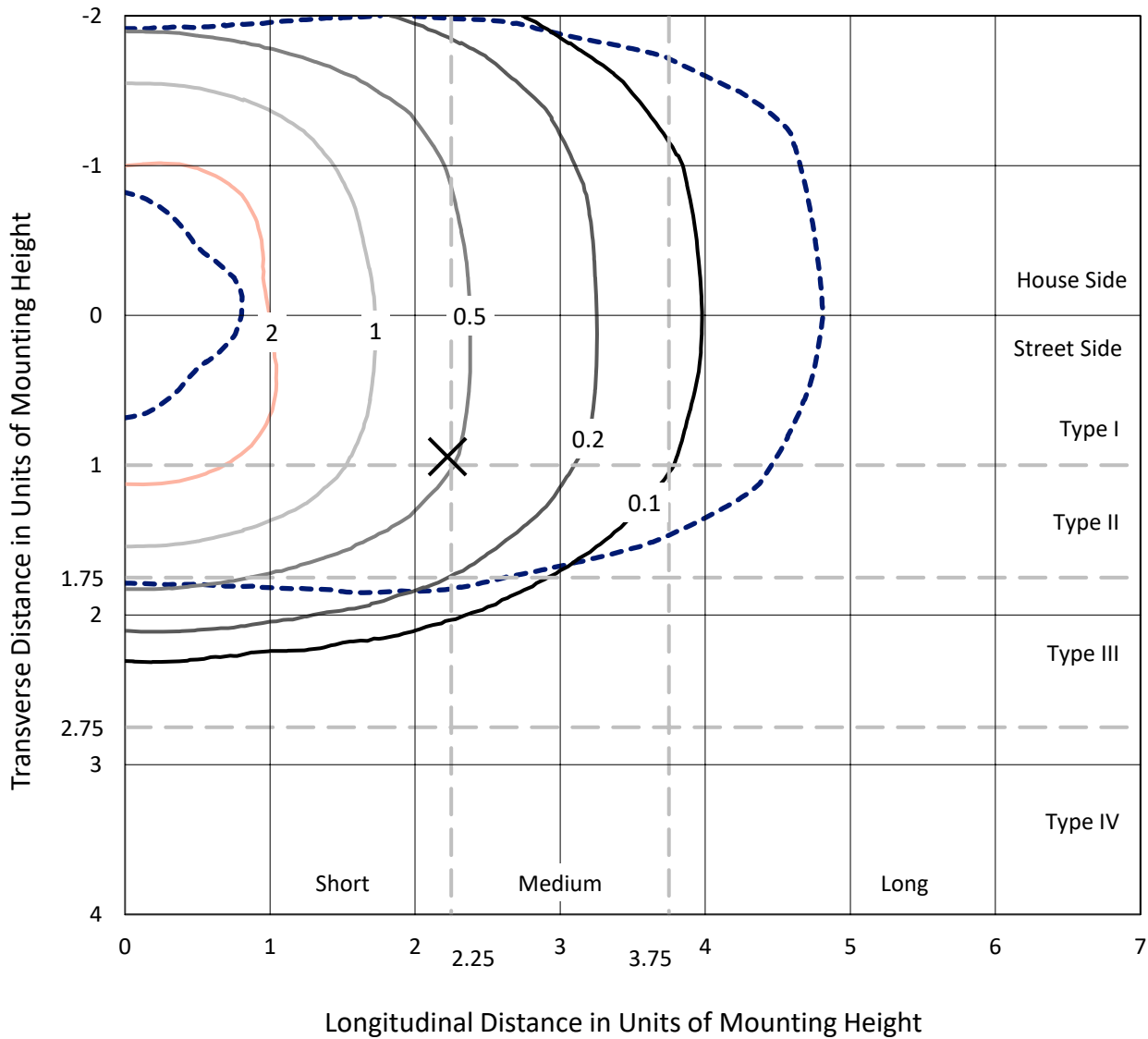
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

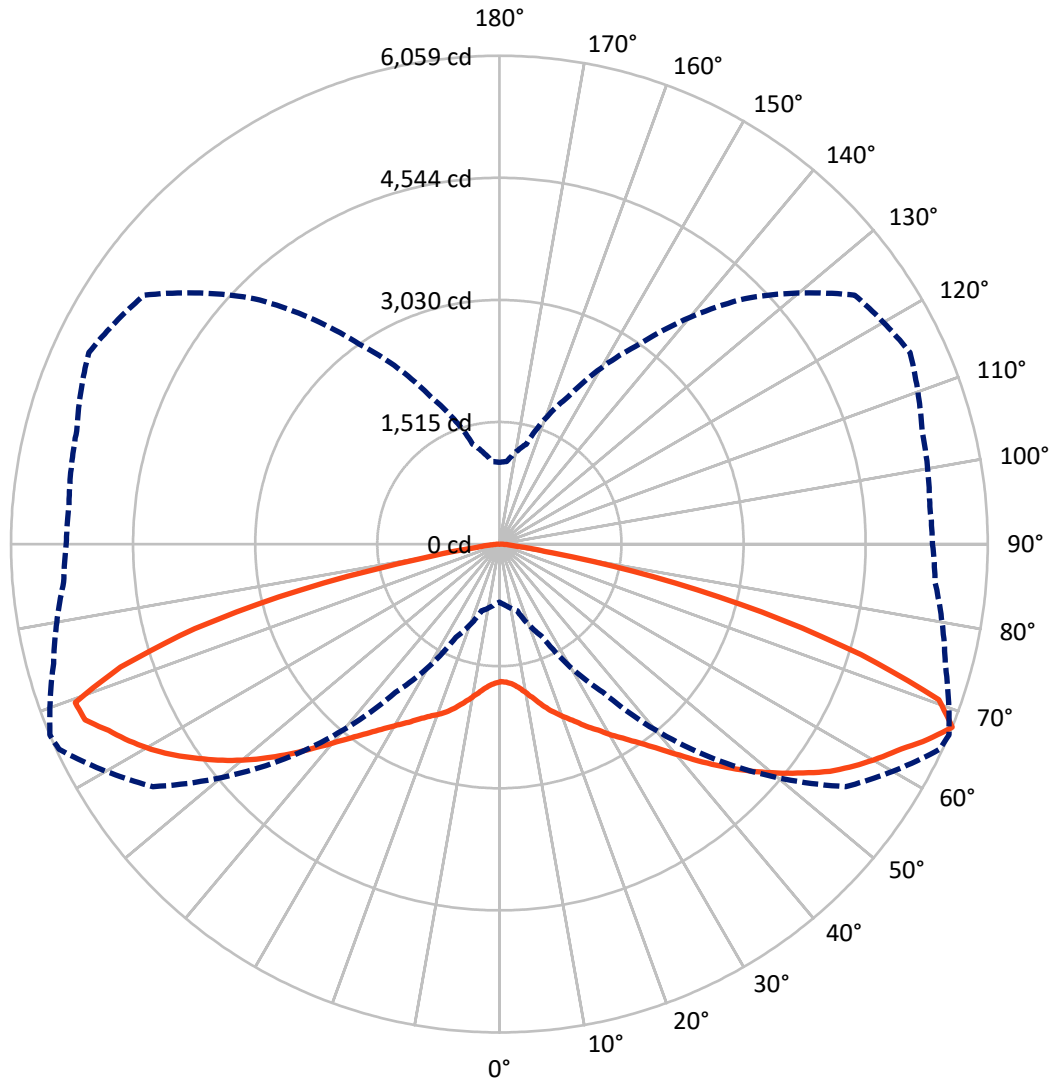
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	8331.3	0.0	8331.3
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	8517.3	0.0	8517.3
	% Fixture	50.6	0.0	50.6
Total	Lumens	16848.6	0.0	16848.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	1.0
10°-20°	565.5	3.4
20°-30°	1109.5	6.6
30°-40°	1890.2	11.2
40°-50°	3035.2	18.0
50°-60°	4124.2	24.5
60°-70°	3945.1	23.4
70°-80°	1875.6	11.1
80°-90°	135.9	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°	16848.6	100.0
0°-180°	16848.6	100.0

Coefficient of Utilization



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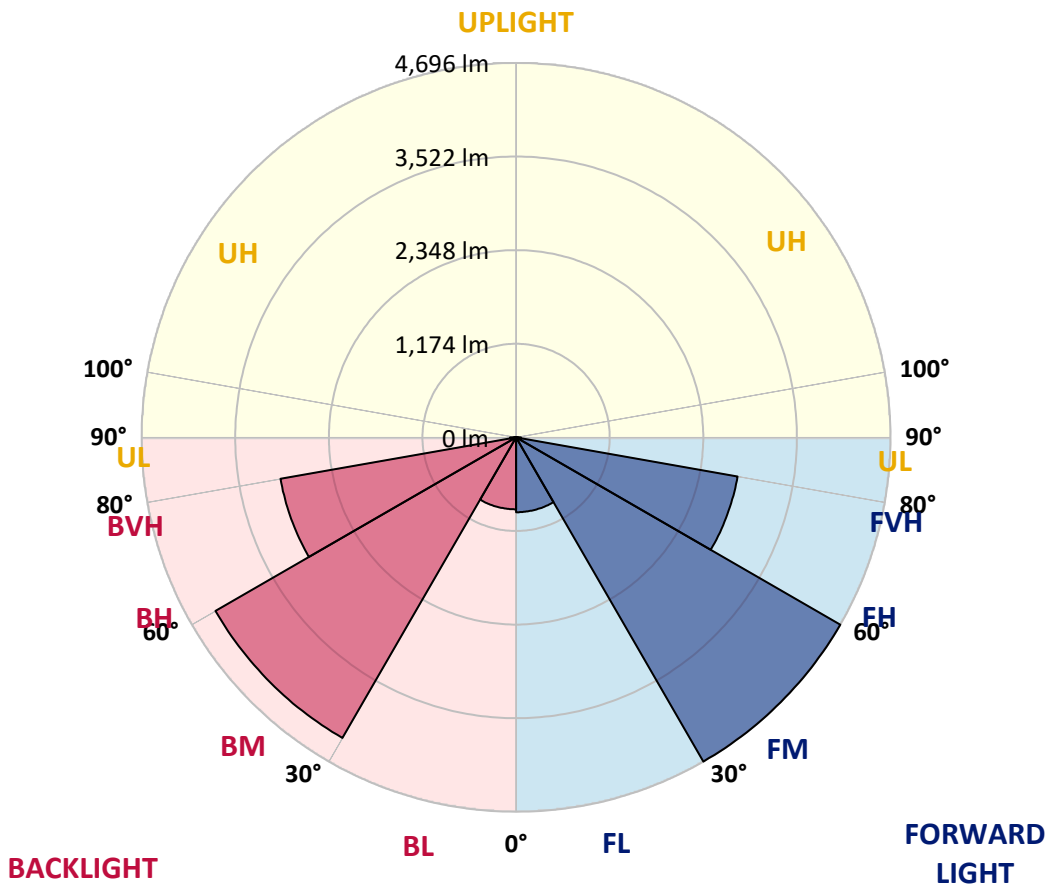
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.4	5.6			
FM (30°-60°)	4695.9	27.9			
FH (60°-80°)	2820.9	16.7			G2/5000
FVH (80°-90°)	61.1	0.4			G1/100
BL (0°-30°)	902.9	5.4	B2/1000		
BM (30°-60°)	4353.8	25.8	B3/5000		
BH (60°-80°)	2999.9	17.8	B4/5000		G4/5000
BVH (80°-90°)	74.8	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°	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0
2.5°	1670.8	1673.2	1676.7	1683.7	1690.8	1701.3	1711.9	1710.7	1715.4	1718.9	1722.4
5°	1661.4	1663.8	1669.6	1679.0	1689.6	1707.2	1729.5	1738.9	1745.9	1758.8	1770.5
7.5°	1681.4	1686.1	1694.3	1707.2	1723.6	1745.9	1776.4	1792.8	1803.4	1826.9	1846.8
10°	1708.4	1714.2	1730.7	1755.3	1779.9	1814.0	1852.7	1877.3	1884.4	1914.9	1952.4
12.5°	1734.2	1741.2	1768.2	1812.8	1857.4	1903.1	1948.9	1979.4	1981.7	2022.8	2065.1
15°	1775.2	1781.1	1817.5	1875.0	1943.0	2006.4	2062.7	2083.8	2093.2	2122.5	2175.3
17.5°	1865.6	1872.6	1919.6	1981.7	2053.3	2120.2	2176.5	2194.1	2194.1	2218.8	2262.2
20°	1963.0	1970.0	2032.2	2112.0	2198.8	2266.9	2310.3	2293.9	2288.0	2295.0	2325.5
22.5°	2072.1	2085.0	2144.8	2237.5	2344.3	2427.6	2449.9	2400.6	2384.2	2367.8	2374.8
25°	2211.7	2227.0	2285.6	2384.2	2488.6	2576.6	2589.5	2513.3	2503.9	2446.4	2425.3
27.5°	2372.5	2384.2	2456.9	2554.3	2651.7	2725.6	2739.7	2645.8	2614.2	2534.4	2485.1
30°	2580.1	2590.7	2654.1	2750.3	2834.8	2886.4	2904.0	2774.9	2750.3	2628.2	2552.0
32.5°	2806.6	2811.3	2875.8	2968.5	3043.6	3092.9	3068.2	2918.1	2881.7	2744.4	2640.0
35°	3065.9	3065.9	3149.2	3224.3	3284.1	3298.2	3251.3	3080.0	3037.7	2888.7	2758.5
37.5°	3320.5	3327.5	3405.0	3494.2	3547.0	3544.6	3459.0	3271.2	3223.1	3061.2	2916.9
40°	3596.2	3611.5	3688.9	3788.7	3839.1	3832.1	3700.7	3491.8	3442.5	3251.3	3110.5
42.5°	3849.7	3874.3	3964.7	4066.7	4121.9	4117.2	3979.9	3745.3	3697.1	3481.3	3340.5
45°	4051.5	4077.3	4189.9	4331.9	4419.9	4411.7	4273.2	4008.1	3949.4	3723.0	3568.1
47.5°	4228.7	4255.7	4381.2	4531.4	4671.0	4685.1	4558.4	4273.2	4211.1	3982.3	3807.4
50°	4364.8	4377.7	4518.5	4682.7	4844.7	4923.3	4813.0	4539.6	4464.5	4238.1	4040.9
52.5°	4354.2	4371.8	4545.5	4768.4	4985.5	5114.5	5038.3	4790.7	4717.9	4471.5	4279.1
55°	4139.5	4157.1	4363.6	4688.6	5064.1	5254.1	5245.9	5030.0	4977.2	4709.7	4526.7
57.5°	3826.2	3864.9	4070.3	4421.1	4960.8	5365.6	5398.5	5248.3	5193.1	4943.2	4771.9
60°	3265.4	3317.0	3554.0	4009.3	4629.9	5328.1	5561.6	5432.5	5398.5	5160.3	4993.7
62.5°	2372.5	2410.0	2725.6	3322.9	4139.5	5060.6	5698.8	5622.6	5596.8	5355.1	5194.3
65°	1420.9	1506.5	1760.0	2350.2	3339.3	4556.0	5623.7	5871.3	5844.3	5555.7	5365.6
67.5°	719.2	758.0	857.7	1274.2	2245.7	3769.9	5247.1	6026.2	6059.1	5727.0	5426.6
70°	445.9	456.4	484.6	628.9	1121.7	2476.9	4290.8	5622.6	5783.3	5700.0	5268.2
72.5°	357.9	360.2	364.9	391.9	538.6	1158.1	2712.7	4403.5	4693.3	5323.4	5041.8
75°	296.9	298.0	299.2	307.4	335.6	472.9	1320.0	3026.0	3365.1	4524.3	4674.5
77.5°	238.2	232.3	237.0	240.5	247.6	264.0	455.3	1614.5	1958.3	2969.7	3615.0
80°	154.9	152.5	161.9	165.4	172.5	183.0	242.9	547.9	665.3	1080.6	1149.9
82.5°	83.3	78.6	98.6	95.0	98.6	106.8	143.1	200.6	225.3	326.2	275.7
85°	25.8	25.8	27.0	31.7	38.7	37.5	62.2	98.6	109.1	139.6	103.3
87.5°	4.7	4.7	4.7	4.7	4.7	5.9	12.9	19.9	27.0	48.1	36.4
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°	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0	1706.0
2.5°	1729.5	1718.9	1724.8	1728.3	1727.1	1724.8	1713.1	1710.7	1704.8	1695.5	1693.1
5°	1781.1	1769.4	1770.5	1767.0	1755.3	1740.0	1714.2	1701.3	1690.8	1679.0	1677.9
7.5°	1862.1	1849.2	1845.6	1829.2	1796.4	1761.2	1720.1	1696.6	1679.0	1663.8	1661.4
10°	1965.3	1952.4	1940.7	1902.0	1848.0	1801.1	1747.1	1713.1	1687.2	1668.5	1664.9
12.5°	2080.3	2069.7	2040.4	1984.1	1919.6	1864.4	1809.3	1767.0	1729.5	1701.3	1697.8
15°	2208.2	2184.7	2140.1	2067.4	2006.4	1961.8	1894.9	1837.4	1777.6	1740.0	1731.8
17.5°	2297.4	2277.4	2224.6	2154.2	2106.1	2067.4	1988.8	1906.7	1825.7	1770.5	1758.8
20°	2360.7	2339.6	2279.8	2228.1	2212.9	2180.0	2088.5	1993.5	1899.6	1831.6	1816.3
22.5°	2406.5	2384.2	2323.2	2297.4	2318.5	2312.6	2223.5	2115.5	2004.0	1923.1	1904.3
25°	2449.9	2428.8	2374.8	2384.2	2440.5	2458.1	2361.9	2236.4	2109.6	2014.6	1992.3
27.5°	2491.0	2464.0	2439.3	2491.0	2570.8	2603.6	2501.5	2359.6	2222.3	2124.9	2107.3
30°	2554.3	2522.6	2519.1	2594.2	2720.9	2749.1	2636.5	2494.5	2358.4	2259.8	2237.5
32.5°	2634.1	2604.8	2607.1	2719.8	2866.4	2889.9	2793.7	2661.1	2525.0	2426.4	2395.9
35°	2742.1	2705.7	2725.6	2864.1	3011.9	3055.3	2977.9	2867.6	2735.0	2634.1	2600.1
37.5°	2891.1	2838.3	2879.3	3024.8	3173.8	3238.4	3178.5	3096.4	2965.0	2862.9	2831.2
40°	3081.2	3037.7	3054.2	3214.9	3368.6	3446.1	3408.5	3327.5	3197.3	3090.5	3054.2
42.5°	3306.4	3263.0	3257.2	3428.5	3582.2	3699.5	3663.1	3589.2	3454.3	3332.2	3297.0
45°	3527.0	3487.1	3495.3	3670.2	3842.6	3970.5	3934.2	3847.3	3700.7	3559.9	3531.7
47.5°	3757.0	3724.1	3731.2	3916.6	4106.6	4234.5	4188.8	4083.2	3911.9	3761.7	3727.7
50°	3992.8	3955.3	3965.8	4160.6	4365.9	4486.8	4416.4	4260.3	4071.4	3924.8	3895.4
52.5°	4227.5	4182.9	4209.9	4394.1	4606.5	4702.7	4572.4	4383.5	4200.5	4055.0	4022.2
55°	4497.4	4450.4	4421.1	4618.2	4828.2	4868.1	4689.8	4469.2	4252.1	4086.7	4066.7
57.5°	4743.8	4703.9	4648.7	4845.8	5000.7	4971.4	4780.1	4445.7	4126.6	3914.2	3886.1
60°	4964.3	4930.3	4882.2	5050.0	5120.4	5054.7	4707.4	4167.7	3816.8	3595.1	3582.2
62.5°	5167.3	5131.0	5086.4	5229.5	5220.1	5067.6	4376.5	3740.6	3271.2	3033.0	3011.9
65°	5328.1	5295.2	5282.3	5394.9	5379.7	4815.3	3861.4	3041.3	2390.1	2121.4	2113.2
67.5°	5373.8	5360.9	5430.1	5621.4	5383.2	4308.4	3028.4	2016.9	1283.6	1029.0	1013.8
70°	5202.5	5201.4	5399.6	5673.0	4895.1	3291.2	1787.0	909.3	645.3	572.6	563.2
72.5°	4979.6	4976.1	5133.3	4893.9	3630.3	1801.1	752.1	486.9	403.6	383.7	383.7
75°	4613.5	4604.1	4722.6	3723.0	2041.6	678.2	398.9	334.4	316.8	313.3	313.3
77.5°	3760.5	3681.9	3495.3	2300.9	712.2	333.2	264.0	262.8	252.3	251.1	251.1
80°	1236.7	1236.7	1437.3	877.6	314.5	205.3	186.6	195.9	185.4	178.3	177.2
82.5°	201.8	278.1	395.4	251.1	170.1	127.9	115.0	122.0	127.9	102.1	102.1
85°	79.8	104.4	152.5	117.3	78.6	51.6	55.1	61.0	54.0	46.9	45.8
87.5°	30.5	37.5	54.0	28.2	16.4	9.4	5.9	5.9	4.7	4.7	4.7
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)