

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: P643500

Luminaire Tested: GWS-SA6F-722-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-722-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

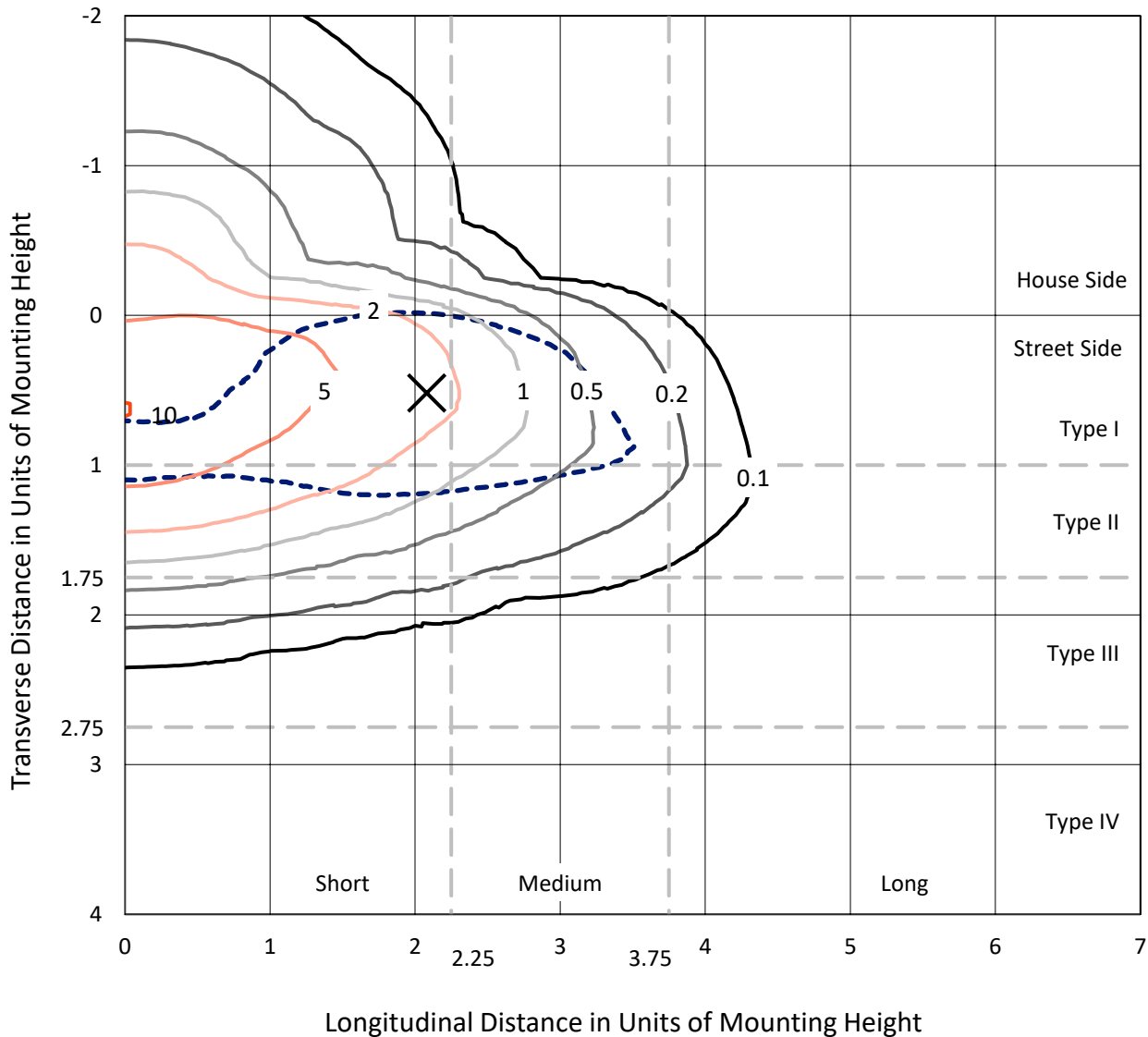
Lumens per Lamp: N/A  
Luminaire Lumens: 37381.8 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

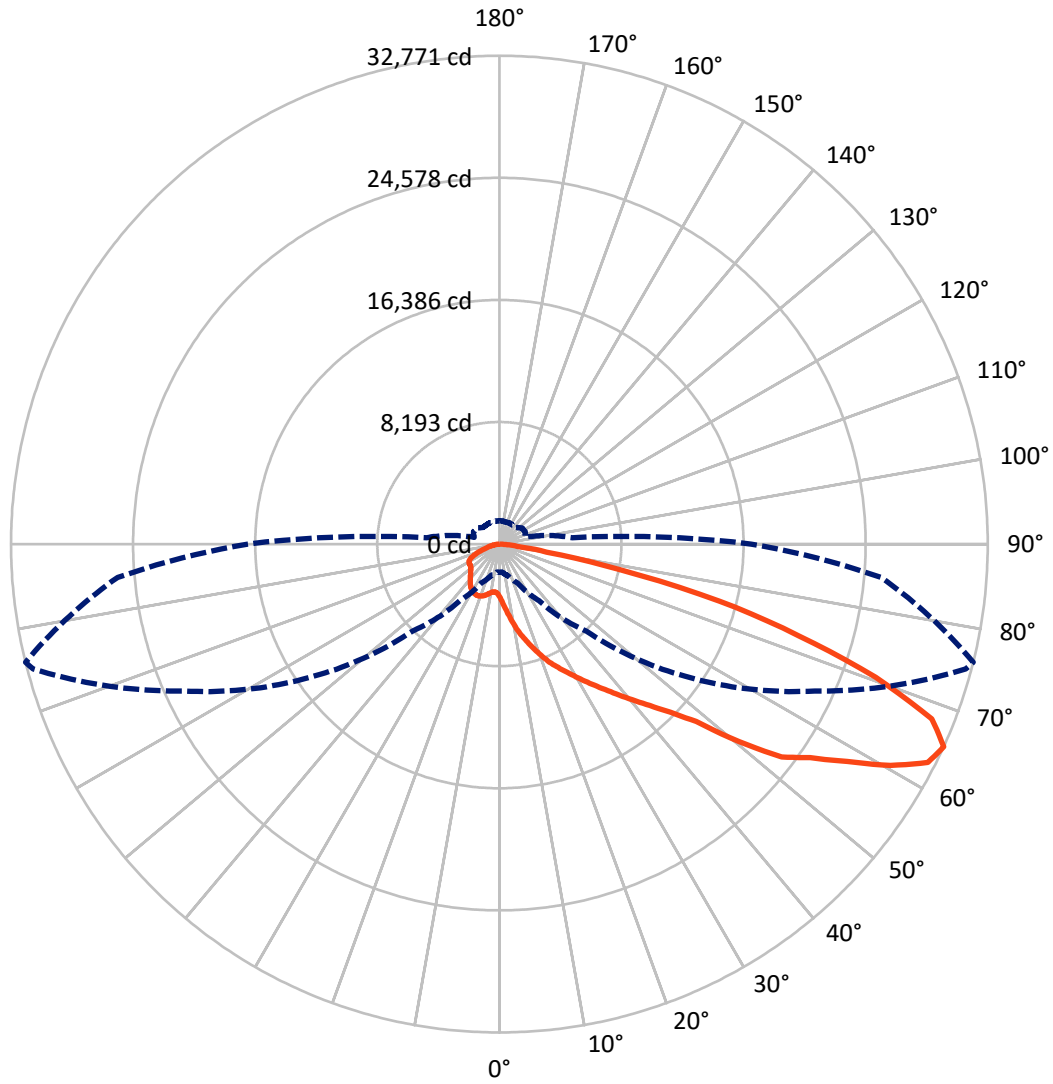
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6248.4	0.0	6248.4
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	31133.4	0.0	31133.4
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	37381.8	0.0	37381.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	420.6	1.1
10°-20°	1601.9	4.3
20°-30°	3121.8	8.4
30°-40°	5221.1	14.0
40°-50°	7475.5	20.0
50°-60°	8850.0	23.7
60°-70°	7358.8	19.7
70°-80°	3011.4	8.1
80°-90°	320.6	0.9
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°	37381.8	100.0
0°-180°	37381.8	100.0

**Coefficient of Utilization**



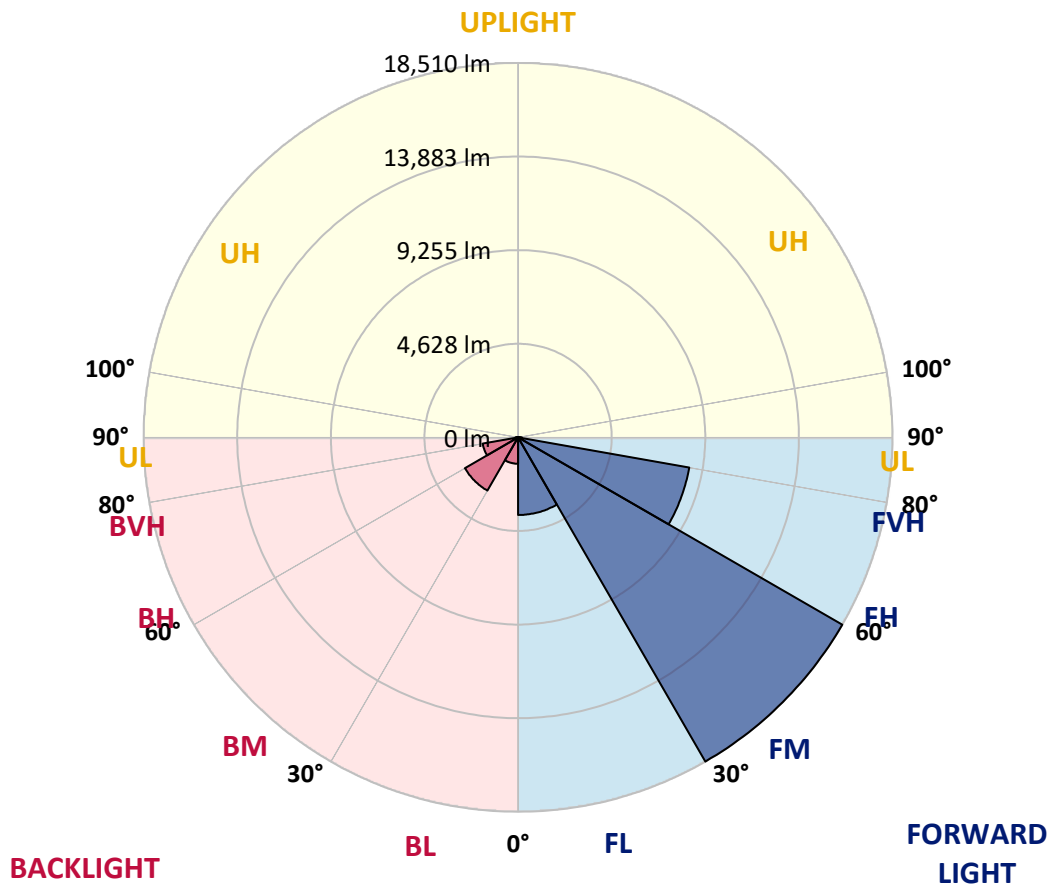
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3837.1	10.3			
FM (30°-60°)	18510.1	49.5			
FH (60°-80°)	8595.0	23.0			G4/12000
FVH (80°-90°)	191.2	0.5			G2/225
BL (0°-30°)	1307.2	3.5	B3/2500		
BM (30°-60°)	3036.6	8.1	B3/5000		
BH (60°-80°)	1775.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	129.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9
2.5°	4961.7	4980.1	4919.6	4898.6	4756.7	4564.8	4404.5	4162.8	3939.4	3905.2	3705.5
5°	6301.9	6223.1	6154.8	6110.1	5913.0	5694.9	5355.9	4901.2	4425.6	4367.7	3936.7
7.5°	7098.2	7085.1	7001.0	6974.7	6822.3	6604.2	6254.6	5689.6	4998.5	4903.9	4249.5
10°	7736.8	7729.0	7686.9	7710.6	7571.3	7358.4	7019.4	6436.0	5626.6	5531.9	4599.0
12.5°	8294.0	8307.1	8299.2	8386.0	8315.0	8149.4	7797.3	7156.0	6254.6	6152.2	5024.7
15°	8701.3	8711.8	8751.2	8940.5	8979.9	8945.7	8588.3	7863.0	6874.9	6727.7	5463.6
17.5°	8816.9	8838.0	8932.6	9237.4	9450.3	9592.2	9326.8	8583.1	7484.5	7324.2	5910.4
20°	8972.0	8995.6	9090.3	9408.2	9721.0	10044.2	9996.9	9313.6	8099.5	7968.1	6362.4
22.5°	9689.4	9671.0	9629.0	9781.4	10004.8	10406.9	10525.1	10015.3	8735.5	8609.3	6861.7
25°	11071.8	11037.6	10769.6	10630.3	10556.7	10801.1	11011.3	10653.9	9355.7	9166.5	7326.9
27.5°	12596.0	12577.6	12236.0	11904.8	11452.8	11347.7	11471.2	11211.1	9957.5	9765.7	7731.6
30°	14038.8	13983.6	13626.2	13211.0	12606.5	12154.5	11973.2	11757.7	10617.1	10417.4	8204.6
32.5°	15329.1	15258.2	14837.7	14377.8	13744.4	13211.0	12669.6	12338.5	11363.5	11132.2	8688.2
35°	16388.2	16317.3	15886.3	15397.5	14701.0	14306.8	13565.7	12969.2	12123.0	11889.1	9258.4
37.5°	17208.2	17142.5	16693.1	16212.1	15605.1	15292.3	14648.5	13678.7	12998.1	12753.7	9862.9
40°	17668.1	17620.8	17260.7	16879.7	16369.8	16099.1	15810.1	14574.9	13978.3	13733.9	10575.1
42.5°	17807.3	17775.8	17523.5	17326.4	16982.1	16777.2	16942.7	15628.7	15024.3	14811.4	11376.6
45°	17457.8	17457.8	17384.2	17484.1	17499.9	17497.2	18078.0	16819.2	16309.4	16075.5	12506.7
47.5°	16564.3	16622.1	16729.9	17221.3	17739.0	18172.6	19405.2	18406.5	17962.4	17770.5	14107.1
50°	14929.7	15087.4	15455.3	16414.5	17515.6	18619.4	20661.3	20753.3	21176.4	20837.4	16461.8
52.5°	12535.6	12511.9	13450.1	14816.7	16496.0	18637.8	21352.5	22824.2	23962.1	23728.2	18212.1
55°	9962.8	9923.3	10798.5	12682.7	14932.3	17933.5	21767.7	23772.9	25507.4	25297.1	19786.2
57.5°	7629.1	7579.2	8357.0	10057.4	12724.8	16438.2	21688.9	24902.9	27633.4	27525.7	21925.4
60°	5250.7	5190.3	5918.3	7405.7	10112.6	14151.8	20816.4	25483.7	30122.2	30158.9	24214.4
62.5°	3153.6	3119.4	3647.7	4801.4	7274.3	11318.8	18774.4	25131.6	32103.7	32269.2	25686.1
65°	1902.7	1879.0	2189.1	2864.5	4614.8	8259.8	15626.1	23331.4	32390.1	32771.2	25720.3
67.5°	1385.0	1387.6	1476.9	1745.0	2691.1	5334.8	11726.1	20104.2	30897.4	31291.6	24098.8
70°	1203.6	1208.9	1256.2	1316.6	1626.7	3053.7	7623.8	15870.5	26485.0	26789.8	20212.0
72.5°	1069.6	1069.6	1101.1	1132.7	1272.0	1860.6	4083.9	11092.8	20903.1	20984.6	15426.4
75°	940.8	932.9	948.7	964.5	1103.8	1300.9	1986.8	7729.0	15439.5	15250.3	9970.6
77.5°	749.0	741.1	743.7	759.5	885.6	930.3	1006.5	4827.6	8701.3	8212.5	4404.5
80°	533.5	528.2	557.1	596.6	654.4	570.3	630.7	2336.3	3450.6	3211.4	1708.2
82.5°	318.0	328.5	373.2	404.7	452.0	357.4	407.3	780.5	1222.0	1190.5	693.8
85°	44.7	47.3	134.0	155.1	194.5	139.3	215.5	352.2	488.8	523.0	244.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	18.4	63.1	139.3	141.9	60.4
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°	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9	3539.9
2.5°	3603.0	3479.5	3303.4	3156.2	3032.7	2932.8	2848.8	2785.7	2767.3	2741.0	2741.0
5°	3734.4	3511.0	3195.7	2972.3	2843.5	2767.3	2714.7	2688.4	2675.3	2659.5	2651.7
7.5°	3915.7	3603.0	3177.3	2951.2	2851.4	2804.1	2769.9	2754.1	2743.6	2727.9	2727.9
10°	4165.4	3739.6	3235.1	3024.8	2946.0	2898.7	2859.3	2833.0	2809.3	2785.7	2780.4
12.5°	4436.1	3918.4	3340.2	3124.7	3040.6	2982.8	2927.6	2888.2	2859.3	2830.4	2822.5
15°	4735.7	4102.3	3453.2	3221.9	3116.8	3038.0	2972.3	2911.8	2872.4	2830.4	2825.1
17.5°	5030.0	4288.9	3547.8	3287.6	3153.6	3056.4	2961.8	2882.9	2833.0	2785.7	2772.5
20°	5382.1	4475.5	3613.5	3306.0	3145.7	3016.9	2903.9	2804.1	2748.9	2693.7	2685.8
22.5°	5705.4	4648.9	3645.0	3279.7	3085.3	2932.8	2801.4	2693.7	2633.3	2578.1	2567.6
25°	6018.1	4801.4	3631.9	3216.7	2993.3	2817.2	2680.6	2572.8	2515.0	2457.2	2441.4
27.5°	6320.3	4903.9	3579.3	3119.4	2877.7	2688.4	2557.0	2459.8	2409.9	2359.9	2338.9
30°	6617.3	4998.5	3497.9	2993.3	2730.5	2554.4	2446.7	2378.3	2328.4	2275.8	2260.1
32.5°	6916.9	5066.8	3374.4	2846.1	2580.7	2436.2	2370.5	2320.5	2268.0	2215.4	2199.6
35°	7219.1	5095.7	3224.6	2677.9	2454.6	2359.9	2336.3	2278.5	2207.5	2144.4	2123.4
37.5°	7579.2	5122.0	3038.0	2512.4	2344.2	2323.2	2317.9	2231.2	2147.1	2060.4	2036.7
40°	8012.8	5156.1	2846.1	2362.6	2254.8	2310.0	2289.0	2170.7	2002.5	1918.4	1892.2
42.5°	8543.6	5219.2	2646.4	2225.9	2189.1	2260.1	2236.4	2023.6	1910.6	1863.3	1850.1
45°	9324.2	5450.5	2446.7	2118.2	2139.2	2189.1	2152.3	1936.8	1892.2	1860.6	1844.9
47.5°	10714.4	5805.3	2273.2	2036.7	2099.8	2126.1	1984.1	1913.2	1879.0	1837.0	1818.6
50°	12159.8	5960.3	2133.9	1986.8	2055.1	2068.2	1892.2	1881.6	1858.0	1813.3	1794.9
52.5°	13137.4	5939.3	2049.8	1968.4	2018.3	1968.4	1850.1	1847.5	1831.7	1779.2	1758.1
55°	14241.1	5976.1	2013.0	1973.6	2002.5	1800.2	1797.6	1805.4	1797.6	1739.7	1729.2
57.5°	15731.2	6089.1	1994.7	1992.0	1992.0	1718.7	1747.6	1758.1	1742.4	1716.1	1708.2
60°	17163.5	6097.0	1960.5	2013.0	1984.1	1668.8	1689.8	1700.3	1681.9	1676.7	1674.0
62.5°	17702.2	5718.5	1884.3	1997.3	1952.6	1613.6	1629.4	1634.6	1616.2	1629.4	1626.7
65°	16900.7	4914.4	1758.1	1921.1	1855.4	1563.7	1553.1	1566.3	1534.8	1568.9	1571.5
67.5°	15005.9	3905.2	1566.3	1776.5	1718.7	1508.5	1487.4	1487.4	1434.9	1487.4	1484.8
70°	12099.3	2759.4	1285.1	1545.3	1568.9	1442.8	1432.3	1371.8	1287.7	1366.6	1358.7
72.5°	9171.7	1981.5	1011.8	1222.0	1350.8	1350.8	1353.4	1250.9	1153.7	1190.5	1158.9
75°	5810.5	1395.5	809.4	935.6	1059.1	1185.2	1245.7	1056.5	969.7	954.0	938.2
77.5°	2617.5	917.2	630.7	717.4	751.6	935.6	1137.9	909.3	791.0	756.9	746.4
80°	1095.9	570.3	449.4	507.2	462.5	785.8	1003.9	706.9	580.8	533.5	499.3
82.5°	480.9	339.0	286.5	273.3	289.1	583.4	749.0	470.4	362.7	491.4	496.7
85°	202.4	178.7	147.2	134.0	118.3	223.4	352.2	184.0	226.0	128.8	105.1
87.5°	47.3	52.6	39.4	26.3	15.8	2.6	0.0	0.0	0.0	0.0	0.0
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)