

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: P643445

Luminaire Tested: GWS-SA6E-830-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643445  
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-SAGE-830-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36260.2 lumens  
Efficiency: N/A  
Efficacy: 112.0 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): 323.8  
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

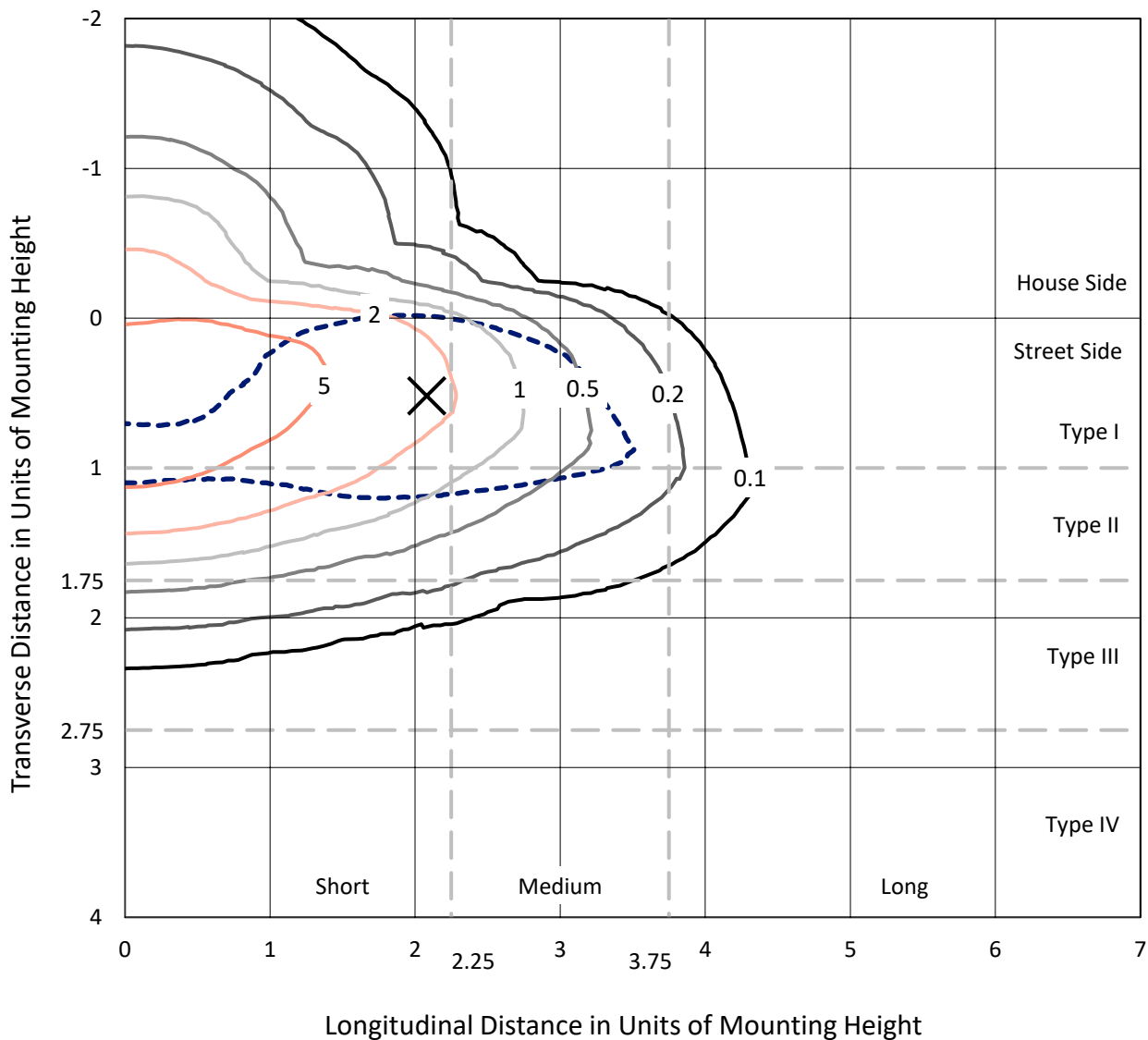


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### Iso-Footcandle Lines of Horizontal Illumination

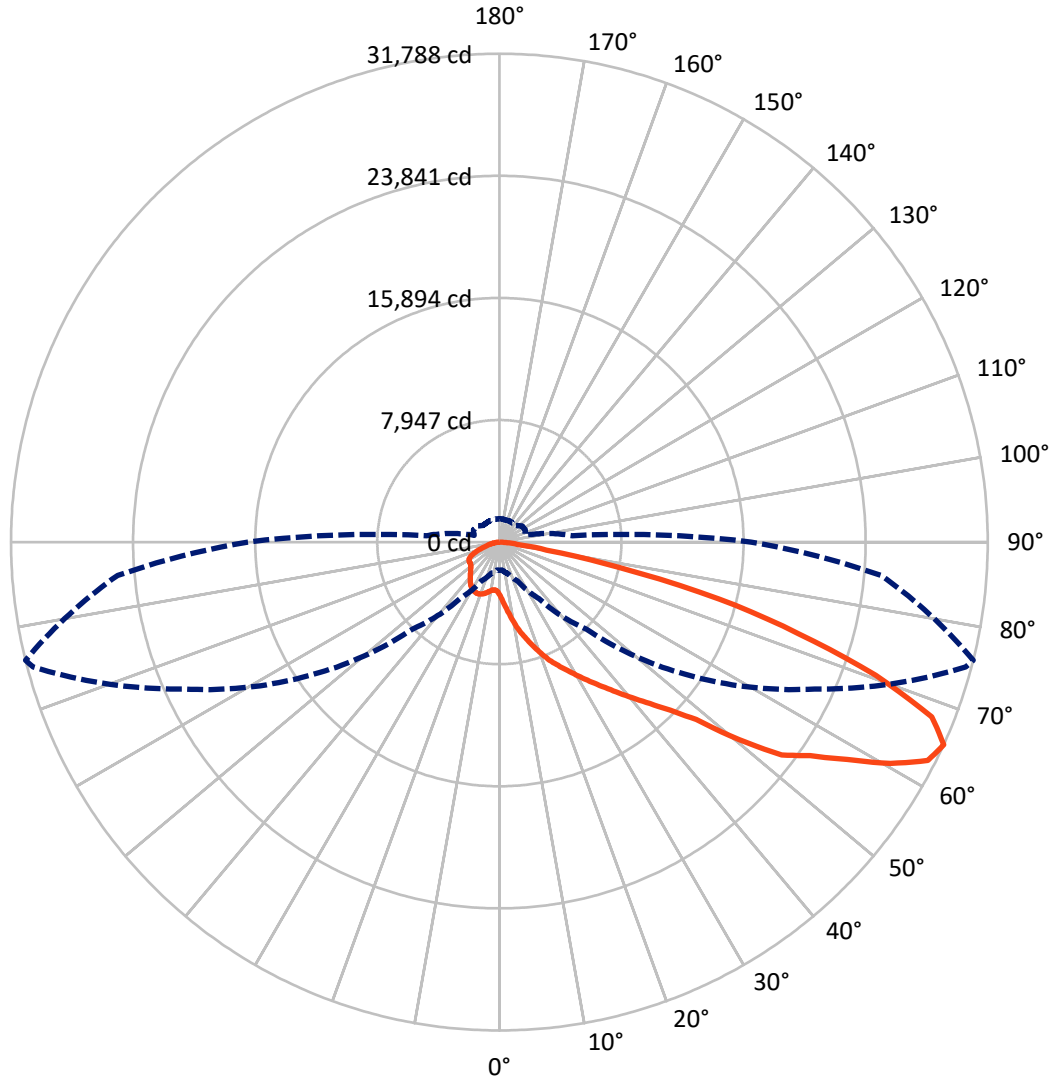
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	6060.9	0.0	6060.9
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	30199.3	0.0	30199.3
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	36260.2	0.0	36260.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.9	1.1
10°-20°	1553.8	4.3
20°-30°	3028.2	8.4
30°-40°	5064.4	14.0
40°-50°	7251.3	20.0
50°-60°	8584.5	23.7
60°-70°	7138.0	19.7
70°-80°	2921.1	8.1
80°-90°	311.0	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°	36260.2	100.0
0°-180°	36260.2	100.0

**Coefficient of Utilization**



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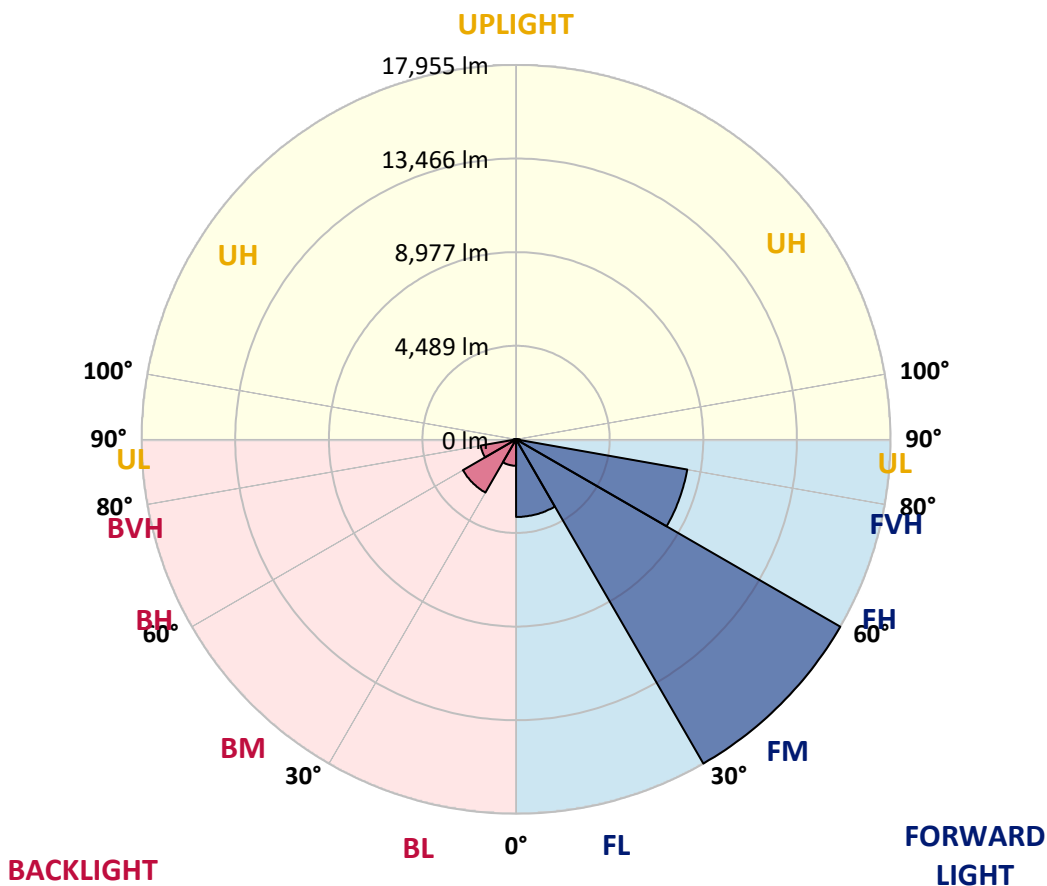
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3722.0	10.3			
FM (30°-60°)	17954.7	49.5			
FH (60°-80°)	8337.1	23.0			G4/12000
FVH (80°-90°)	185.5	0.5			G2/225
BL (0°-30°)	1267.9	3.5	B3/2500		
BM (30°-60°)	2945.5	8.1	B3/5000		
BH (60°-80°)	1722.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	125.5	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°	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7
2.5°	4812.8	4830.6	4772.0	4751.6	4614.0	4427.9	4272.4	4037.9	3821.2	3788.0	3594.3
5°	6112.9	6036.4	5970.1	5926.8	5735.6	5524.0	5195.2	4754.2	4292.8	4236.7	3818.6
7.5°	6885.3	6872.5	6790.9	6765.4	6617.6	6406.0	6067.0	5518.9	4848.5	4756.7	4122.0
10°	7504.7	7497.1	7456.3	7479.2	7344.1	7137.6	6808.8	6242.9	5457.7	5366.0	4461.0
12.5°	8045.1	8057.9	8050.2	8134.3	8065.5	7904.9	7563.3	6941.3	6067.0	5967.6	4874.0
15°	8440.2	8450.4	8488.7	8672.2	8710.5	8677.3	8330.6	7627.1	6668.6	6525.8	5299.7
17.5°	8552.4	8572.8	8664.6	8960.3	9166.7	9304.4	9046.9	8325.5	7260.0	7104.5	5733.0
20°	8702.8	8725.7	8817.5	9126.0	9429.3	9742.9	9697.0	9034.2	7856.5	7729.0	6171.5
22.5°	9398.7	9380.9	9340.1	9487.9	9704.6	10094.6	10209.4	9714.8	8473.4	8351.0	6655.8
25°	10739.6	10706.4	10446.4	10311.3	10239.9	10477.0	10680.9	10334.3	9075.0	8891.4	7107.0
27.5°	12218.1	12200.2	11868.8	11547.7	11109.2	11007.2	11127.0	10874.7	9658.7	9472.6	7499.6
30°	13617.6	13564.0	13217.3	12814.6	12228.3	11789.8	11613.9	11404.9	10298.6	10104.8	7958.5
32.5°	14869.2	14800.4	14392.5	13946.4	13332.1	12814.6	12289.5	11968.3	11022.5	10798.2	8427.5
35°	15896.5	15827.7	15409.6	14935.5	14260.0	13877.6	13158.7	12580.1	11759.2	11532.4	8980.7
37.5°	16691.8	16628.1	16192.2	15725.7	15136.9	14833.5	14209.0	13268.3	12608.1	12371.0	9567.0
40°	17137.9	17092.1	16742.8	16373.2	15878.7	15616.1	15335.7	14137.6	13558.9	13321.9	10257.8
42.5°	17273.0	17242.5	16997.7	16806.6	16472.6	16273.8	16434.4	15159.8	14573.5	14367.0	11035.3
45°	16934.0	16934.0	16862.6	16959.5	16974.8	16972.2	17535.6	16314.6	15820.0	15593.2	12131.4
47.5°	16067.3	16123.4	16227.9	16704.6	17206.8	17627.4	18822.9	17854.3	17423.4	17237.4	13683.8
50°	14481.7	14634.7	14991.6	15922.0	16990.1	18060.7	20041.4	20130.6	20541.1	20212.2	15967.9
52.5°	12159.5	12136.5	13046.6	14372.1	16001.0	18078.6	20711.9	22139.4	23243.2	23016.3	17665.6
55°	9663.8	9625.6	10474.5	12302.2	14484.3	17395.4	21114.6	23059.6	24742.1	24538.1	19192.6
57.5°	7400.2	7351.8	8106.3	9755.6	12343.0	15944.9	21038.1	24155.8	26804.3	26699.8	21267.6
60°	5093.2	5034.6	5740.7	7183.5	9809.1	13727.2	20191.8	24719.1	29218.4	29254.1	23487.9
62.5°	3059.0	3025.8	3538.2	4657.3	7056.1	10979.2	18211.1	24377.5	31140.4	31301.0	24915.4
65°	1845.6	1822.6	2123.4	2778.6	4476.3	8012.0	15157.3	22631.4	31418.3	31787.9	24948.5
67.5°	1343.4	1346.0	1432.6	1692.6	2610.3	5174.8	11374.3	19501.0	29970.4	30352.7	23375.7
70°	1167.5	1172.6	1218.5	1277.1	1577.9	2962.1	7395.1	15394.3	25690.3	25986.0	19605.5
72.5°	1037.5	1037.5	1068.1	1098.7	1233.8	1804.8	3961.4	10760.0	20276.0	20355.0	14963.5
75°	912.6	904.9	920.2	935.5	1070.6	1261.8	1927.2	7497.1	14976.3	14792.7	9671.5
77.5°	726.5	718.9	721.4	736.7	859.1	902.4	976.3	4682.8	8440.2	7966.1	4272.4
80°	517.5	512.4	540.4	578.7	634.7	553.2	611.8	2266.2	3347.0	3115.1	1656.9
82.5°	308.4	318.6	362.0	392.6	438.5	346.7	395.1	757.1	1185.4	1154.8	673.0
85°	43.3	45.9	130.0	150.4	188.6	135.1	209.0	341.6	474.1	507.3	237.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.8	61.2	135.1	137.7	58.6
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°	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7	3433.7
2.5°	3494.9	3375.1	3204.3	3061.5	2941.7	2844.9	2763.3	2702.1	2684.3	2658.8	2658.8
5°	3622.3	3405.7	3099.8	2883.1	2758.2	2684.3	2633.3	2607.8	2595.0	2579.7	2572.1
7.5°	3798.2	3494.9	3081.9	2862.7	2765.8	2719.9	2686.8	2671.5	2661.3	2646.0	2646.0
10°	4040.4	3627.4	3138.0	2934.1	2857.6	2811.7	2773.5	2748.0	2725.0	2702.1	2697.0
12.5°	4303.0	3800.8	3240.0	3030.9	2949.4	2893.3	2839.8	2801.5	2773.5	2745.4	2737.8
15°	4593.6	3979.2	3349.6	3125.3	3023.3	2946.8	2883.1	2824.5	2786.2	2745.4	2740.3
17.5°	4879.1	4160.2	3441.4	3189.0	3059.0	2964.7	2872.9	2796.4	2748.0	2702.1	2689.4
20°	5220.7	4341.2	3505.1	3206.8	3051.3	2926.4	2816.8	2719.9	2666.4	2612.9	2605.2
22.5°	5534.2	4509.4	3535.7	3181.3	2992.7	2844.9	2717.4	2612.9	2554.2	2500.7	2490.5
25°	5837.6	4657.3	3522.9	3120.2	2903.5	2732.7	2600.1	2495.6	2439.5	2383.5	2368.2
27.5°	6130.7	4756.7	3471.9	3025.8	2791.3	2607.8	2480.3	2386.0	2337.6	2289.1	2268.7
30°	6418.8	4848.5	3392.9	2903.5	2648.6	2477.8	2373.3	2307.0	2258.5	2207.6	2192.3
32.5°	6709.4	4914.8	3273.1	2760.7	2503.3	2363.1	2299.3	2250.9	2199.9	2148.9	2133.6
35°	7002.5	4942.8	3127.8	2597.6	2380.9	2289.1	2266.2	2210.1	2141.3	2080.1	2059.7
37.5°	7351.8	4968.3	2946.8	2437.0	2273.8	2253.4	2248.4	2164.2	2082.7	1998.5	1975.6
40°	7772.4	5001.4	2760.7	2291.7	2187.2	2240.7	2220.3	2105.6	1942.5	1860.9	1835.4
42.5°	8287.3	5062.6	2567.0	2159.1	2123.4	2192.3	2169.3	1962.8	1853.2	1807.3	1794.6
45°	9044.4	5286.9	2373.3	2054.6	2075.0	2123.4	2087.8	1878.7	1835.4	1804.8	1789.5
47.5°	10392.9	5631.1	2205.0	1975.6	2036.8	2062.3	1924.6	1855.8	1822.6	1781.9	1764.0
50°	11794.9	5781.5	2069.9	1927.2	1993.4	2006.2	1835.4	1825.2	1802.3	1758.9	1741.1
52.5°	12743.2	5761.1	1988.3	1909.3	1957.7	1909.3	1794.6	1792.1	1776.8	1725.8	1705.4
55°	13813.9	5796.8	1952.6	1914.4	1942.5	1746.2	1743.6	1751.3	1743.6	1687.5	1677.3
57.5°	15259.2	5906.4	1934.8	1932.3	1932.3	1667.1	1695.2	1705.4	1690.1	1664.6	1656.9
60°	16648.5	5914.0	1901.7	1952.6	1924.6	1618.7	1639.1	1649.3	1631.5	1626.4	1623.8
62.5°	17171.1	5547.0	1827.7	1937.4	1894.0	1565.2	1580.5	1585.6	1567.7	1580.5	1577.9
65°	16393.6	4766.9	1705.4	1863.4	1799.7	1516.7	1506.5	1519.3	1488.7	1521.8	1524.4
67.5°	14555.7	3788.0	1519.3	1723.2	1667.1	1463.2	1442.8	1442.8	1391.8	1442.8	1440.3
70°	11736.3	2676.6	1246.5	1498.9	1521.8	1399.5	1389.3	1330.7	1249.1	1325.6	1317.9
72.5°	8896.5	1922.1	981.4	1185.4	1310.3	1310.3	1312.8	1213.4	1119.1	1154.8	1124.2
75°	5636.2	1353.6	785.1	907.5	1027.3	1149.7	1208.3	1024.8	940.6	925.3	910.0
77.5°	2539.0	889.7	611.8	695.9	729.1	907.5	1103.8	882.0	767.3	734.2	724.0
80°	1063.0	553.2	435.9	492.0	448.7	762.2	973.8	685.7	563.4	517.5	484.3
82.5°	466.5	328.8	277.9	265.1	280.4	565.9	726.5	456.3	351.8	476.7	481.8
85°	196.3	173.3	142.8	130.0	114.7	216.7	341.6	178.4	219.2	124.9	102.0
87.5°	45.9	51.0	38.2	25.5	15.3	2.5	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)