

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: P641752

Luminaire Tested: GWS-SA6B-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20991.2 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

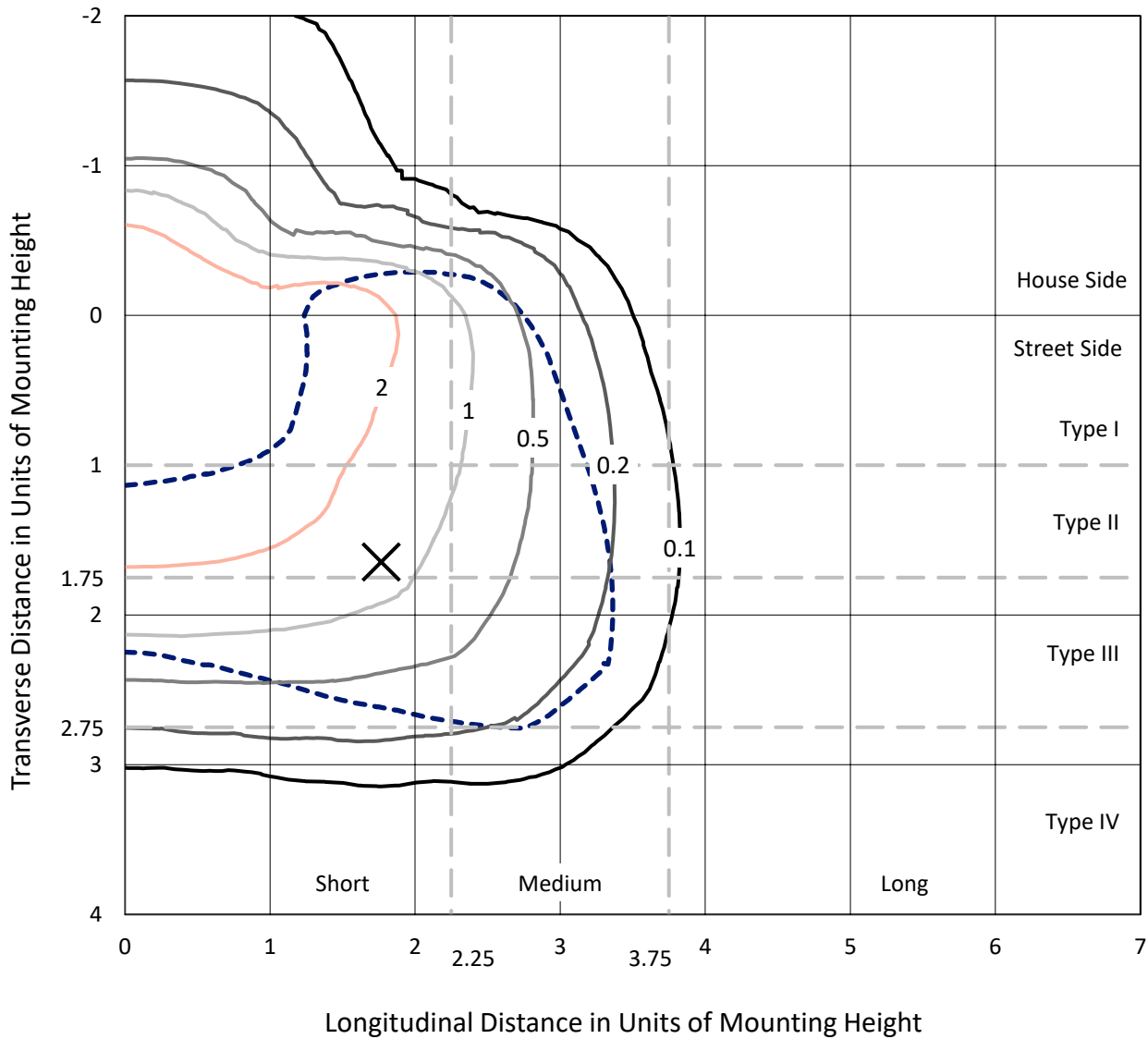
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

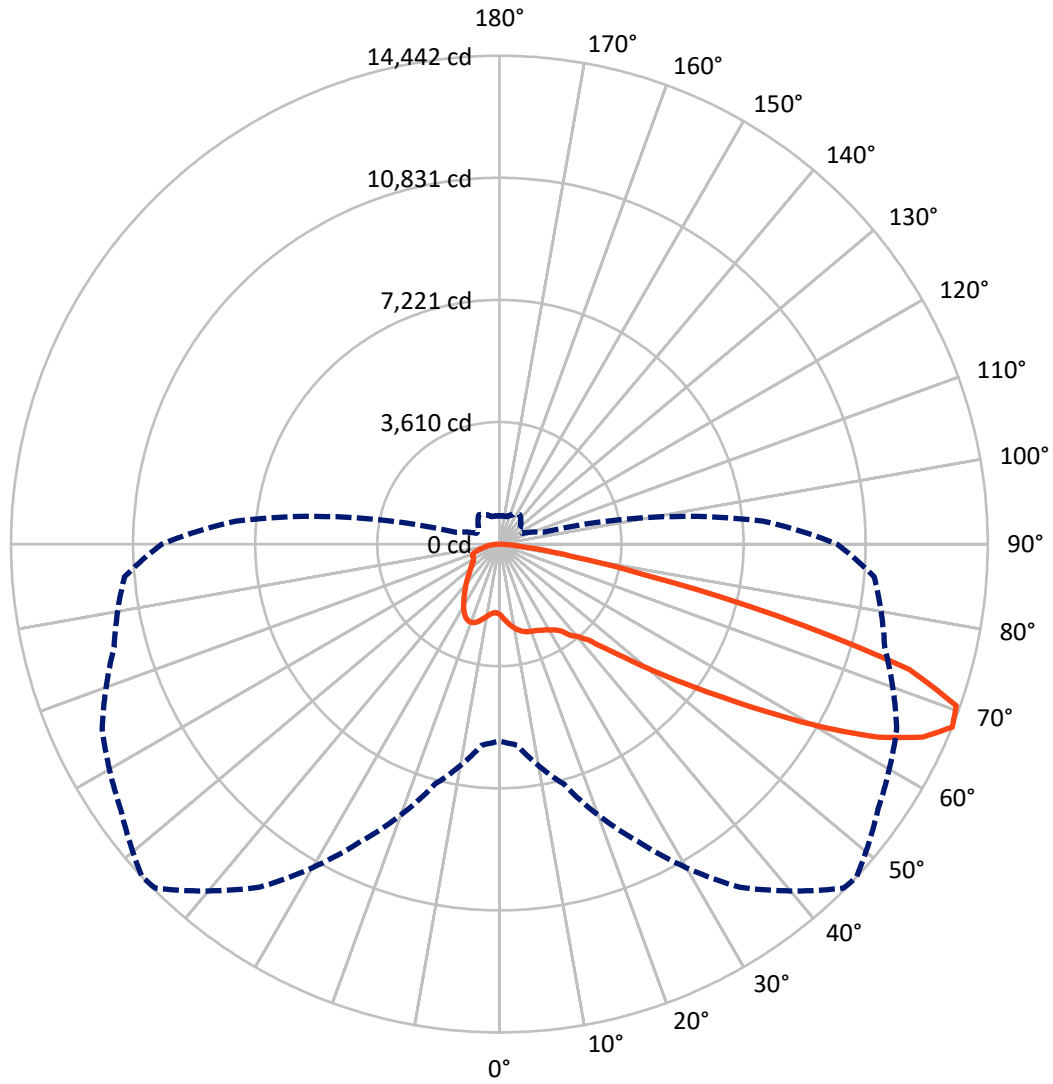
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4784.1	0.0	4784.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	16207.1	0.0	16207.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	20991.2	0.0	20991.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	1.0
10°-20°	708.5	3.4
20°-30°	1204.3	5.7
30°-40°	1764.2	8.4
40°-50°	2688.0	12.8
50°-60°	4809.4	22.9
60°-70°	6417.6	30.6
70°-80°	2902.2	13.8
80°-90°	284.3	1.4
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°	20991.2	100.0
0°-180°	20991.2	100.0

Coefficient of Utilization



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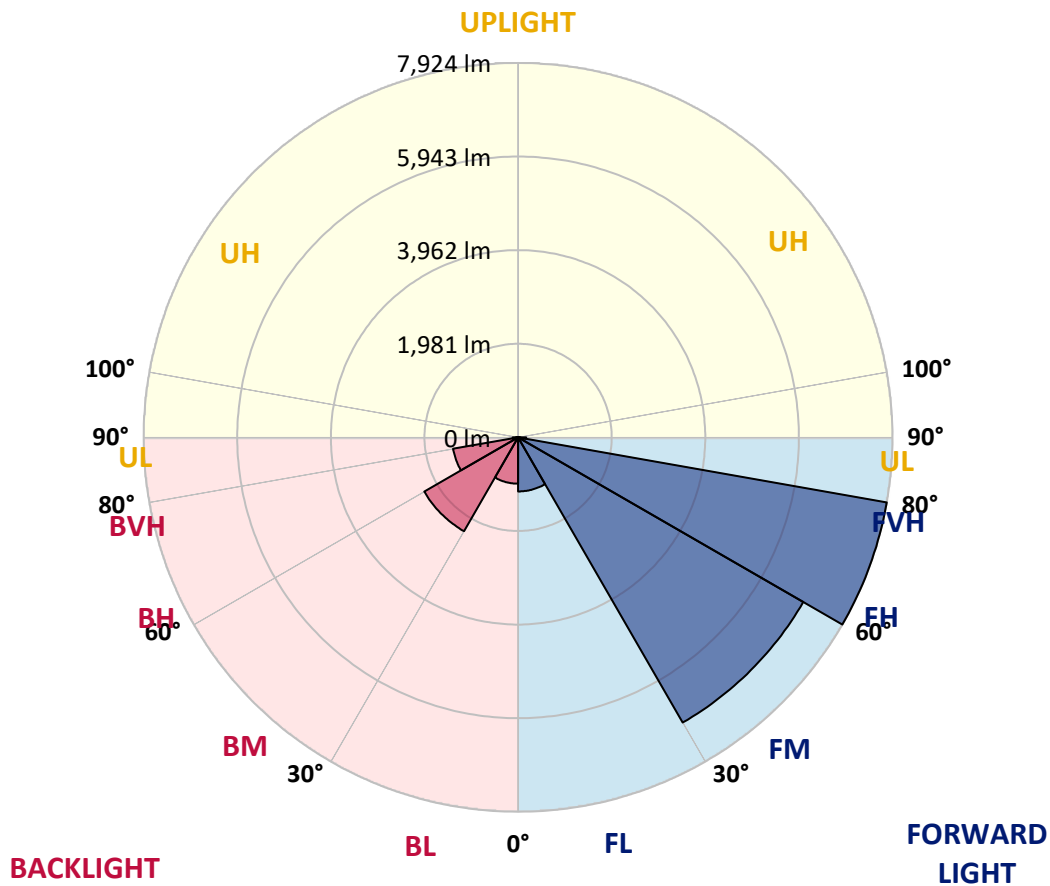
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.8	5.5			
FM (30°-60°)	6969.3	33.2			
FH (60°-80°)	7923.9	37.7			G4/12000
FVH (80°-90°)	169.1	0.8			G2/225
BL (0°-30°)	980.7	4.7	B2/1000		
BM (30°-60°)	2292.3	10.9	B2/2500		
BH (60°-80°)	1395.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	115.2	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9
2.5°	2219.0	2226.6	2225.1	2212.9	2205.4	2191.7	2193.2	2172.0	2140.1	2118.8	2094.6
5°	2414.8	2426.9	2411.8	2392.0	2361.7	2317.7	2313.1	2264.5	2203.8	2161.3	2117.3
7.5°	2584.8	2592.4	2574.2	2540.8	2496.8	2437.6	2426.9	2369.3	2293.4	2226.6	2162.9
10°	2716.8	2726.0	2701.7	2657.7	2600.0	2540.8	2533.2	2474.0	2393.6	2314.6	2234.2
12.5°	2829.2	2832.2	2806.4	2747.2	2685.0	2624.3	2616.7	2562.0	2487.7	2407.2	2319.2
15°	2894.4	2895.9	2864.1	2798.8	2739.6	2686.5	2681.9	2634.9	2566.6	2490.7	2396.6
17.5°	2889.9	2892.9	2870.1	2812.5	2760.9	2729.0	2724.4	2694.1	2641.0	2572.7	2478.6
20°	2833.7	2836.8	2821.6	2783.6	2756.3	2747.2	2748.7	2739.6	2707.7	2651.6	2556.0
22.5°	2789.7	2794.3	2780.6	2753.3	2750.2	2771.5	2776.0	2780.6	2765.4	2715.3	2622.7
25°	2810.9	2818.5	2797.3	2759.3	2765.4	2812.5	2821.6	2836.8	2824.6	2782.1	2701.7
27.5°	2958.2	2962.7	2908.1	2830.7	2812.5	2862.6	2876.2	2900.5	2891.4	2851.9	2789.7
30°	3299.7	3296.6	3179.8	2990.0	2914.2	2933.9	2944.5	2979.4	2982.5	2956.7	2897.5
32.5°	3780.8	3765.6	3585.0	3283.0	3062.9	3014.3	3026.5	3073.5	3108.4	3081.1	3000.7
35°	4289.3	4275.6	4076.8	3723.1	3337.6	3169.1	3155.5	3191.9	3245.0	3169.1	3053.8
37.5°	4773.5	4752.2	4548.8	4111.7	3676.1	3440.8	3421.1	3384.7	3352.8	3207.1	3119.1
40°	5310.8	5286.5	5108.9	4614.1	4049.5	3648.8	3598.7	3454.5	3425.7	3333.1	3289.1
42.5°	5884.5	5884.5	5737.3	5250.0	4500.3	3946.3	3881.0	3663.9	3694.3	3633.6	3582.0
45°	6458.2	6474.9	6358.0	5890.5	5102.8	4507.8	4403.1	4095.0	4167.9	4140.5	4114.7
47.5°	6946.9	6978.8	6956.0	6544.7	5840.5	5190.8	5031.5	4711.2	4867.6	4932.8	5005.7
50°	7473.6	7508.5	7485.7	7323.3	6704.1	6018.0	5875.4	5544.5	5813.1	6008.9	6247.2
52.5°	8255.3	8305.4	8115.6	8053.4	7752.9	6957.6	6830.1	6453.6	6940.9	7265.7	7796.9
55°	8915.5	8914.0	8847.2	8989.9	8879.1	8106.5	7965.4	7623.9	8246.2	8590.7	9367.8
57.5°	9222.1	9258.5	9487.7	9891.4	10113.0	9510.5	9375.4	9026.3	9647.1	9826.2	10665.5
60°	9380.0	9425.5	9868.7	10667.0	11263.5	11043.5	10990.3	10545.6	10894.7	10873.5	11759.8
62.5°	9158.4	9249.4	9961.3	11022.2	12084.7	12584.0	12567.3	11894.9	11955.6	11747.7	12438.3
65°	8141.4	8240.1	9357.2	10844.6	12553.7	13755.7	13760.3	13116.8	12770.7	12172.7	12324.5
67.5°	5822.2	5963.4	7344.6	9703.2	12388.2	14388.7	14441.8	13670.7	12961.9	11796.3	11128.4
70°	3173.7	3276.9	4359.1	7053.2	10897.7	14236.9	14335.5	13403.6	12118.0	10204.1	8566.4
72.5°	1441.9	1475.3	2027.8	3870.4	7444.8	12254.6	12667.5	11961.7	9952.2	7537.4	5447.4
75°	660.2	675.4	883.4	1851.7	3890.1	8200.6	8490.5	8909.4	6925.7	4759.8	2839.8
77.5°	414.4	418.9	502.4	846.9	1939.7	4093.5	4398.6	5304.7	4055.5	2355.6	1186.9
80°	244.4	248.9	312.7	458.4	910.7	1873.0	2162.9	2097.6	1906.3	1016.9	540.3
82.5°	122.9	127.5	180.6	261.1	496.3	745.2	877.3	881.8	710.3	551.0	305.1
85°	44.0	45.5	59.2	103.2	211.0	245.9	274.7	335.4	347.6	320.3	147.2
87.5°	0.0	0.0	1.5	3.0	6.1	24.3	25.8	48.6	101.7	113.8	59.2
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°	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9	2080.9
2.5°	2087.0	2064.2	2056.6	2049.0	2036.9	2032.3	2023.2	2014.1	2014.1	2005.0	2000.4
5°	2097.6	2067.2	2047.5	2038.4	2030.8	2035.4	2035.4	2038.4	2049.0	2042.9	2046.0
7.5°	2135.5	2100.6	2073.3	2065.7	2065.7	2083.9	2096.1	2111.2	2131.0	2134.0	2134.0
10°	2202.3	2161.3	2132.5	2127.9	2135.5	2161.3	2179.5	2197.8	2222.0	2223.6	2226.6
12.5°	2275.2	2234.2	2205.4	2211.4	2219.0	2252.4	2272.1	2287.3	2311.6	2311.6	2310.1
15°	2351.1	2305.5	2281.2	2293.4	2316.1	2354.1	2357.1	2358.6	2370.8	2367.8	2366.2
17.5°	2430.0	2381.4	2363.2	2381.4	2405.7	2423.9	2408.7	2387.5	2382.9	2376.9	2373.8
20°	2507.4	2457.3	2449.7	2463.4	2471.0	2455.8	2408.7	2369.3	2351.1	2342.0	2338.9
22.5°	2574.2	2531.7	2527.1	2527.1	2489.2	2436.1	2366.2	2313.1	2288.8	2276.7	2273.7
25°	2653.1	2613.6	2606.0	2565.1	2467.9	2370.8	2276.7	2228.1	2208.4	2202.3	2203.8
27.5°	2745.7	2718.4	2694.1	2577.2	2407.2	2255.4	2149.2	2127.9	2120.4	2127.9	2132.5
30°	2859.5	2832.2	2777.6	2562.0	2310.1	2105.2	2003.5	2002.0	2024.7	2044.5	2047.5
32.5°	2952.1	2940.0	2850.4	2513.5	2173.5	1939.7	1853.2	1859.3	1900.3	1927.6	1932.1
35°	3025.0	3044.7	2911.1	2433.0	2011.1	1783.4	1715.1	1718.1	1740.9	1778.9	1780.4
37.5°	3128.2	3195.0	2965.8	2310.1	1824.4	1648.3	1586.1	1563.3	1560.3	1570.9	1573.9
40°	3336.1	3436.3	3005.2	2131.0	1643.8	1526.9	1457.1	1413.1	1375.1	1346.3	1337.2
42.5°	3650.3	3765.6	3028.0	1913.9	1482.9	1407.0	1328.1	1271.9	1205.1	1144.4	1123.2
45°	4227.0	4265.0	3028.0	1683.2	1340.2	1294.7	1215.8	1149.0	1064.0	992.6	977.5
47.5°	5149.9	5028.4	3031.0	1460.1	1214.2	1196.0	1127.7	1051.8	957.7	898.5	889.4
50°	6540.2	6113.7	3093.3	1274.9	1109.5	1112.5	1062.5	979.0	894.0	850.0	842.4
52.5°	8115.6	7450.8	3260.2	1138.3	1021.5	1044.2	1016.9	936.5	860.6	822.6	815.1
55°	9597.0	8680.2	3402.9	1041.2	947.1	986.6	985.0	910.7	842.4	804.4	799.9
57.5°	10856.8	9522.6	3381.6	962.3	883.4	933.4	956.2	894.0	830.2	798.4	793.8
60°	11639.9	9968.9	3079.6	889.4	834.8	895.5	939.5	889.4	836.3	828.7	830.2
62.5°	11979.9	9886.9	2499.8	834.8	802.9	877.3	957.7	921.3	892.5	910.7	921.3
65°	11451.7	9182.6	1839.6	793.8	772.6	881.8	1000.2	971.4	892.5	904.6	909.2
67.5°	9985.6	7816.6	1329.6	752.8	734.6	895.5	1060.9	963.8	840.9	840.9	831.7
70°	7195.8	5621.9	965.3	711.8	696.7	875.8	1064.0	912.2	781.7	777.1	754.3
72.5°	4330.3	3316.4	752.8	666.3	639.0	777.1	997.2	851.5	724.0	686.0	658.7
75°	2249.4	1662.0	631.4	616.2	547.9	658.7	912.2	757.4	619.3	585.9	570.7
77.5°	963.8	777.1	541.9	549.4	455.3	554.0	736.1	655.7	549.4	506.9	493.3
80°	475.1	441.7	428.0	440.2	364.3	428.0	634.4	573.7	466.0	417.4	397.7
82.5°	271.7	258.0	308.1	312.7	259.5	358.2	535.8	485.7	385.5	332.4	300.5
85°	126.0	135.1	186.7	188.2	160.9	245.9	350.6	273.2	204.9	170.0	162.4
87.5°	50.1	59.2	82.0	80.4	47.1	45.5	30.4	16.7	13.7	12.1	10.6
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)