

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: P637570

Luminaire Tested: GWS-SA4D-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

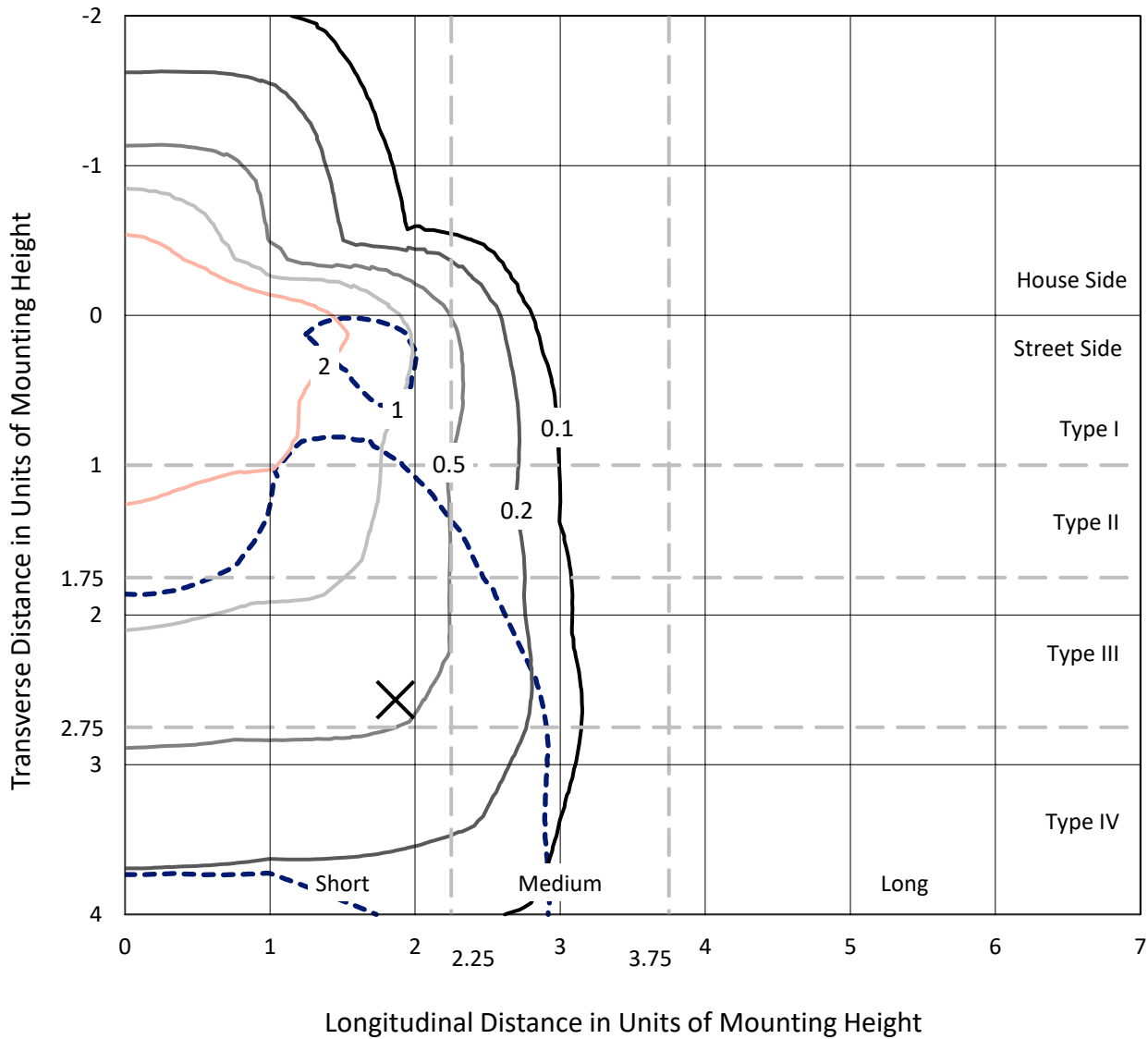
Lumens per Lamp: N/A  
Luminaire Lumens: 17423.6 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

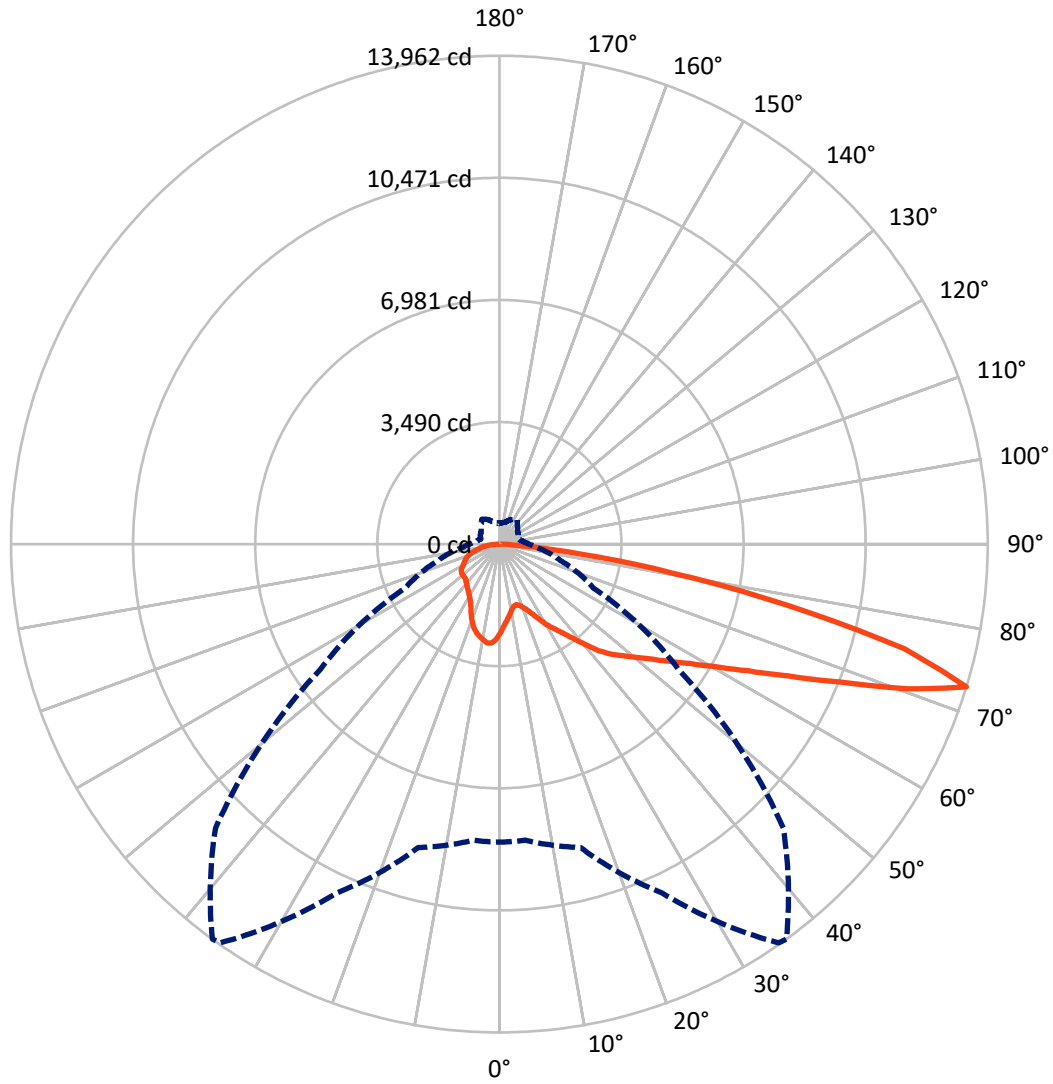
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4016.9	0.0	4016.9
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	13406.7	0.0	13406.7
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	17423.6	0.0	17423.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.4	1.4
10°-20°	672.5	3.9
20°-30°	1113.7	6.4
30°-40°	1667.9	9.6
40°-50°	2433.4	14.0
50°-60°	3463.4	19.9
60°-70°	4375.8	25.1
70°-80°	3118.1	17.9
80°-90°	340.4	2.0
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°	17423.6	100.0
0°-180°	17423.6	100.0

**Coefficient of Utilization**



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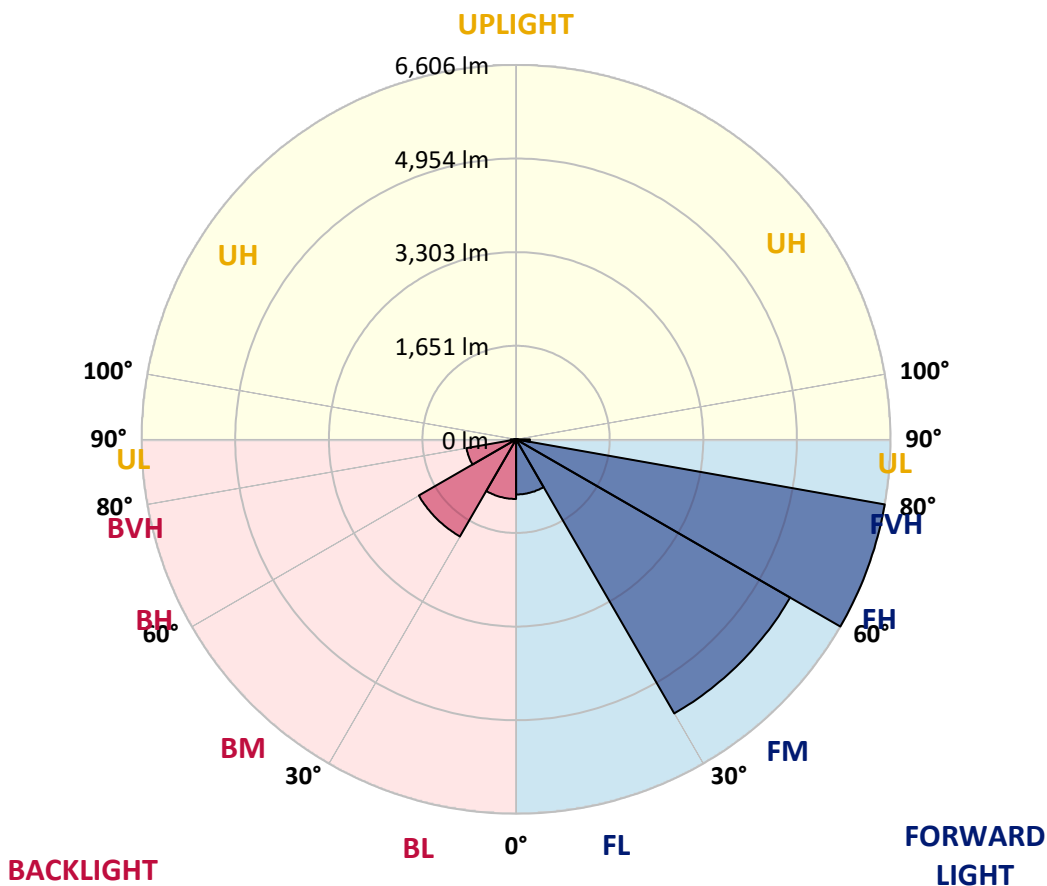
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.7	5.6			
FM (30°-60°)	5583.8	32.0			
FH (60°-80°)	6605.9	37.9			G3/7500
FVH (80°-90°)	244.3	1.4			G3/500
BL (0°-30°)	1051.9	6.0	B3/2500		
BM (30°-60°)	1980.9	11.4	B2/2500		
BH (60°-80°)	888.0	5.1	B2/1000		G2/1000
BVH (80°-90°)	96.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2326.3	2322.4	2314.7	2338.0	2361.2	2358.6	2391.0	2422.0	2455.6	2490.5	2537.1
5°	2140.1	2137.5	2131.1	2166.0	2200.9	2199.6	2252.6	2303.0	2371.6	2446.6	2539.7
7.5°	1953.9	1947.4	1956.5	2000.4	2049.6	2054.8	2127.2	2209.9	2309.5	2422.0	2553.9
10°	1789.7	1788.4	1792.3	1841.4	1915.1	1920.3	2013.4	2128.5	2260.4	2410.4	2586.2
12.5°	1747.0	1744.4	1734.1	1758.6	1814.2	1822.0	1924.2	2065.1	2226.7	2416.8	2630.2
15°	1816.8	1810.4	1774.2	1762.5	1789.7	1796.1	1882.8	2027.6	2207.3	2428.5	2685.8
17.5°	1937.1	1933.2	1864.7	1816.8	1834.9	1840.1	1904.8	2021.1	2202.2	2451.7	2754.3
20°	2112.9	2096.1	1988.8	1916.4	1916.4	1924.2	1962.9	2049.6	2208.6	2480.2	2831.9
22.5°	2345.7	2312.1	2160.8	2062.5	2036.7	2047.0	2063.8	2120.7	2235.8	2528.0	2928.9
25°	2606.9	2575.9	2396.1	2257.8	2221.6	2225.5	2211.2	2221.6	2295.3	2594.0	3049.2
27.5°	2884.9	2864.2	2672.9	2497.0	2440.1	2440.1	2389.7	2365.1	2378.0	2669.0	3183.6
30°	3133.2	3104.8	2943.1	2750.5	2675.5	2675.5	2579.8	2526.7	2495.7	2760.8	3363.4
32.5°	3263.8	3247.0	3139.7	2992.3	2900.5	2886.2	2803.5	2741.4	2669.0	2896.6	3606.5
35°	3434.5	3430.6	3366.0	3250.9	3134.5	3113.8	3056.9	3007.8	2882.4	3066.0	3929.8
37.5°	3649.2	3642.7	3632.4	3563.8	3424.2	3420.3	3369.9	3310.4	3147.4	3310.4	4321.6
40°	3889.7	3878.1	3865.1	3863.8	3779.8	3765.5	3761.7	3694.4	3466.8	3605.2	4730.2
42.5°	4220.7	4180.6	4059.1	4113.4	4175.5	4162.5	4211.7	4110.8	3865.1	3955.6	5116.9
45°	4628.1	4529.8	4289.3	4304.8	4461.2	4487.1	4657.8	4633.2	4303.5	4360.4	5524.2
47.5°	4872.5	4787.1	4563.4	4550.5	4745.7	4778.1	5149.2	5195.7	4775.5	4847.9	6027.2
50°	5072.9	5013.4	4829.8	4847.9	5054.8	5087.1	5636.7	5736.3	5220.3	5347.0	6611.7
52.5°	5314.7	5229.4	5087.1	5172.5	5425.9	5464.7	6178.5	6285.8	5621.2	5895.3	7216.9
55°	5450.5	5415.6	5418.1	5548.8	5866.9	5919.9	6746.2	6728.1	5988.4	6364.7	7672.0
57.5°	5763.4	5750.5	5869.4	5918.6	6381.5	6450.1	7313.9	7158.7	6322.0	6728.1	7890.6
60°	6315.6	6283.2	6386.7	6461.7	7017.7	7114.7	7947.5	7580.2	6548.3	6998.3	7816.9
62.5°	7091.4	7051.4	7055.2	7174.2	7869.9	7972.1	8652.2	7932.0	6618.2	7039.7	7350.1
65°	8056.1	7997.9	7932.0	8093.6	9001.4	9086.7	9419.0	8188.0	6451.3	6641.4	6375.1
67.5°	9073.8	9025.9	8948.4	9287.1	10466.5	10518.2	10279.0	8166.0	5922.5	5575.9	4471.6
70°	9133.3	9144.9	9512.2	10738.0	12379.0	12391.9	11092.3	7723.8	4796.2	3614.3	2228.0
72.5°	8520.3	8500.9	8979.4	11003.1	13917.8	13961.8	11476.4	6257.4	2963.8	1802.6	1044.8
75°	6920.7	6954.4	7457.4	9627.2	11929.0	11967.8	9355.7	3689.3	1408.2	881.9	668.5
77.5°	2979.3	3166.8	4158.7	6782.4	8543.6	8423.3	4822.0	1494.8	751.3	628.5	512.1
80°	859.9	933.6	1481.9	3225.0	5119.4	5028.9	1908.6	559.9	523.7	472.0	367.2
82.5°	278.0	307.8	543.1	1284.1	2294.0	2291.4	724.1	331.0	342.7	320.7	236.6
85°	77.6	89.2	166.8	389.2	709.9	695.7	209.5	156.5	182.3	184.9	117.7
87.5°	0.0	0.0	1.3	2.6	2.6	2.6	5.2	23.3	53.0	67.2	47.8
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°	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0	2550.0
2.5°	2565.5	2561.7	2614.7	2656.1	2694.9	2720.7	2728.5	2733.6	2744.0	2749.2	2744.0
5°	2583.6	2603.0	2691.0	2755.6	2807.4	2838.4	2839.7	2837.1	2844.9	2838.4	2834.5
7.5°	2622.4	2659.9	2771.1	2839.7	2873.3	2874.6	2843.6	2807.4	2789.2	2773.7	2768.6
10°	2674.2	2729.8	2851.3	2896.6	2886.2	2838.4	2769.9	2713.0	2680.6	2657.4	2652.2
12.5°	2745.3	2807.4	2922.4	2921.1	2856.5	2771.1	2691.0	2622.4	2575.9	2548.7	2539.7
15°	2812.5	2891.4	2974.2	2913.4	2811.2	2707.8	2604.3	2512.5	2450.5	2407.8	2400.0
17.5°	2895.3	2979.3	3011.7	2888.8	2754.3	2621.1	2482.8	2362.5	2278.5	2228.0	2224.2
20°	2991.0	3066.0	3029.8	2846.1	2680.6	2506.1	2318.6	2184.1	2093.6	2044.4	2048.3
22.5°	3102.2	3156.5	3034.9	2788.0	2578.5	2343.1	2133.6	2004.3	1943.6	1917.7	1919.0
25°	3221.1	3256.1	3025.9	2709.1	2422.0	2144.0	1943.6	1884.1	1878.9	1872.4	1875.0
27.5°	3362.1	3354.3	2998.7	2597.9	2211.2	1912.5	1810.4	1825.9	1846.6	1844.0	1846.6
30°	3550.9	3477.2	2963.8	2444.0	1960.4	1718.5	1731.5	1775.4	1802.6	1805.2	1812.9
32.5°	3766.8	3613.0	2908.2	2234.5	1721.1	1609.9	1657.8	1710.8	1743.1	1749.6	1759.9
35°	4024.2	3768.1	2809.9	1973.3	1549.2	1545.3	1589.2	1625.4	1660.4	1662.9	1662.9
37.5°	4320.3	3923.3	2653.5	1684.9	1443.1	1489.7	1531.0	1538.8	1547.9	1540.1	1544.0
40°	4591.8	4073.3	2431.1	1422.4	1356.5	1440.5	1475.4	1449.6	1421.1	1401.7	1405.6
42.5°	4819.4	4175.5	2136.2	1238.8	1268.5	1396.6	1423.7	1370.7	1315.1	1278.9	1284.1
45°	5075.5	4269.9	1789.7	1114.7	1193.5	1365.5	1383.6	1315.1	1244.0	1189.7	1181.9
47.5°	5428.5	4462.5	1481.9	1028.0	1140.5	1348.7	1378.5	1285.4	1192.3	1110.8	1101.7
50°	5864.3	4735.4	1224.6	971.1	1116.0	1339.7	1377.2	1253.0	1141.8	1046.1	1039.7
52.5°	6340.1	5001.8	1034.5	927.2	1091.4	1312.5	1370.7	1216.8	1088.8	985.4	977.6
55°	6657.0	5106.5	906.5	885.8	1051.3	1269.8	1344.8	1181.9	1008.6	914.2	902.6
57.5°	6750.1	4972.0	817.2	848.3	999.6	1210.4	1295.7	1108.2	959.5	884.5	875.4
60°	6589.7	4633.2	761.6	817.2	942.7	1134.1	1210.4	1065.5	920.7	853.5	847.0
62.5°	6137.1	4110.8	719.0	784.9	884.5	1053.9	1156.0	1013.8	878.0	825.0	816.0
65°	5226.8	3371.1	684.1	751.3	828.9	977.6	1096.6	962.1	831.5	791.4	781.0
67.5°	3655.6	2367.7	646.6	711.2	773.3	903.9	1034.5	914.2	783.6	753.9	743.5
70°	1787.1	1255.6	601.3	664.7	713.8	828.9	972.4	856.0	720.3	703.5	689.2
72.5°	850.9	702.2	548.3	601.3	632.3	729.3	869.0	772.0	645.3	609.1	584.5
75°	570.3	499.1	478.5	526.3	534.1	611.6	744.8	666.0	569.0	527.6	506.9
77.5°	431.9	381.5	402.2	444.8	429.3	503.0	612.9	593.5	513.4	475.9	465.5
80°	303.9	278.0	319.4	345.3	333.6	428.0	552.2	508.2	422.8	381.5	373.7
82.5°	191.4	186.2	235.3	239.2	243.1	338.8	453.9	399.6	328.5	270.3	250.9
85°	95.7	106.0	140.9	140.9	139.7	174.6	258.6	225.0	177.2	140.9	137.1
87.5°	32.3	45.3	60.8	49.1	37.5	29.7	33.6	41.4	44.0	42.7	42.7
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)