

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: P639273

Luminaire Tested: GWS-SA5B-740-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-740-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

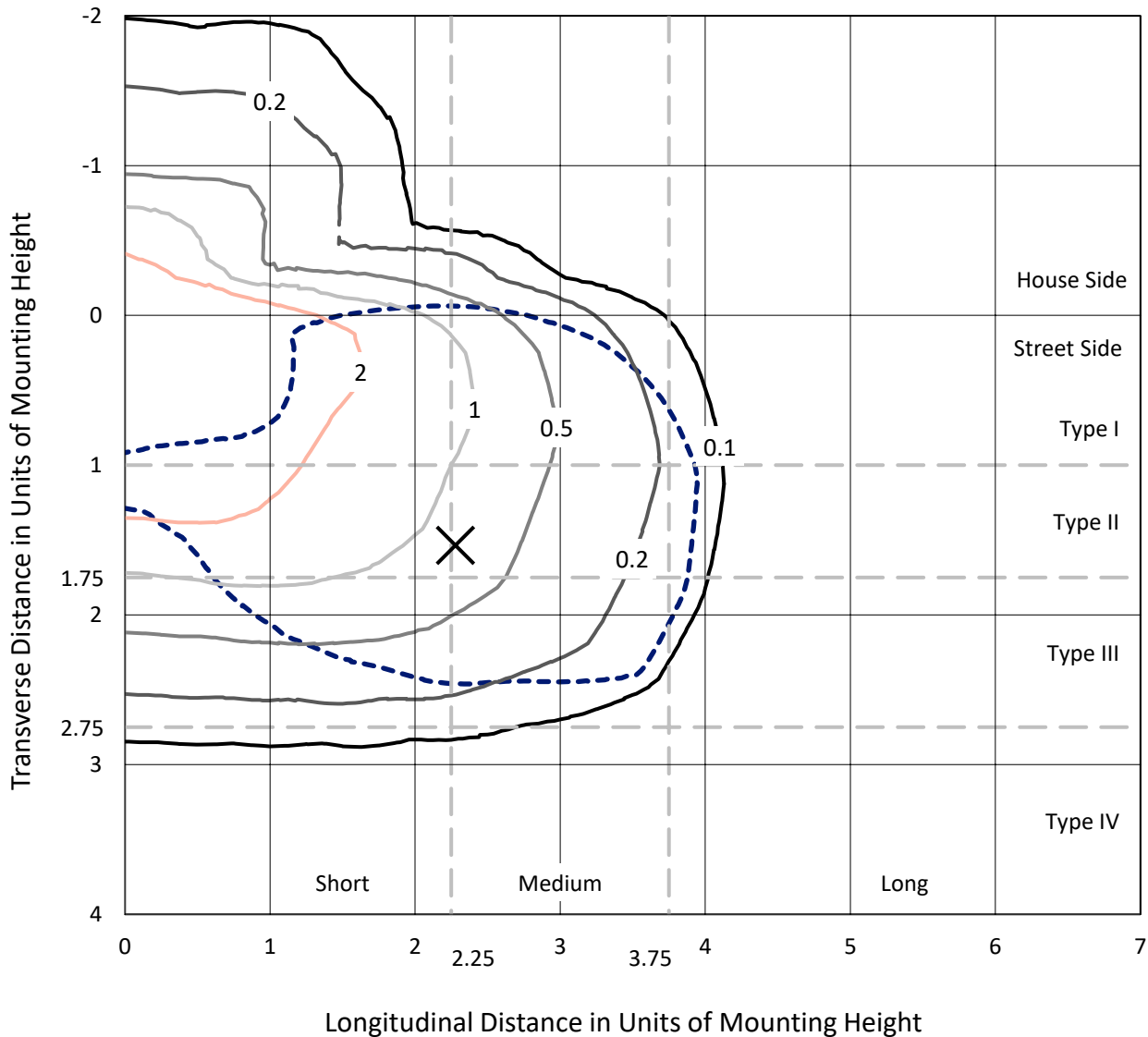
Lumens per Lamp: N/A  
Luminaire Lumens: 18050.5 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

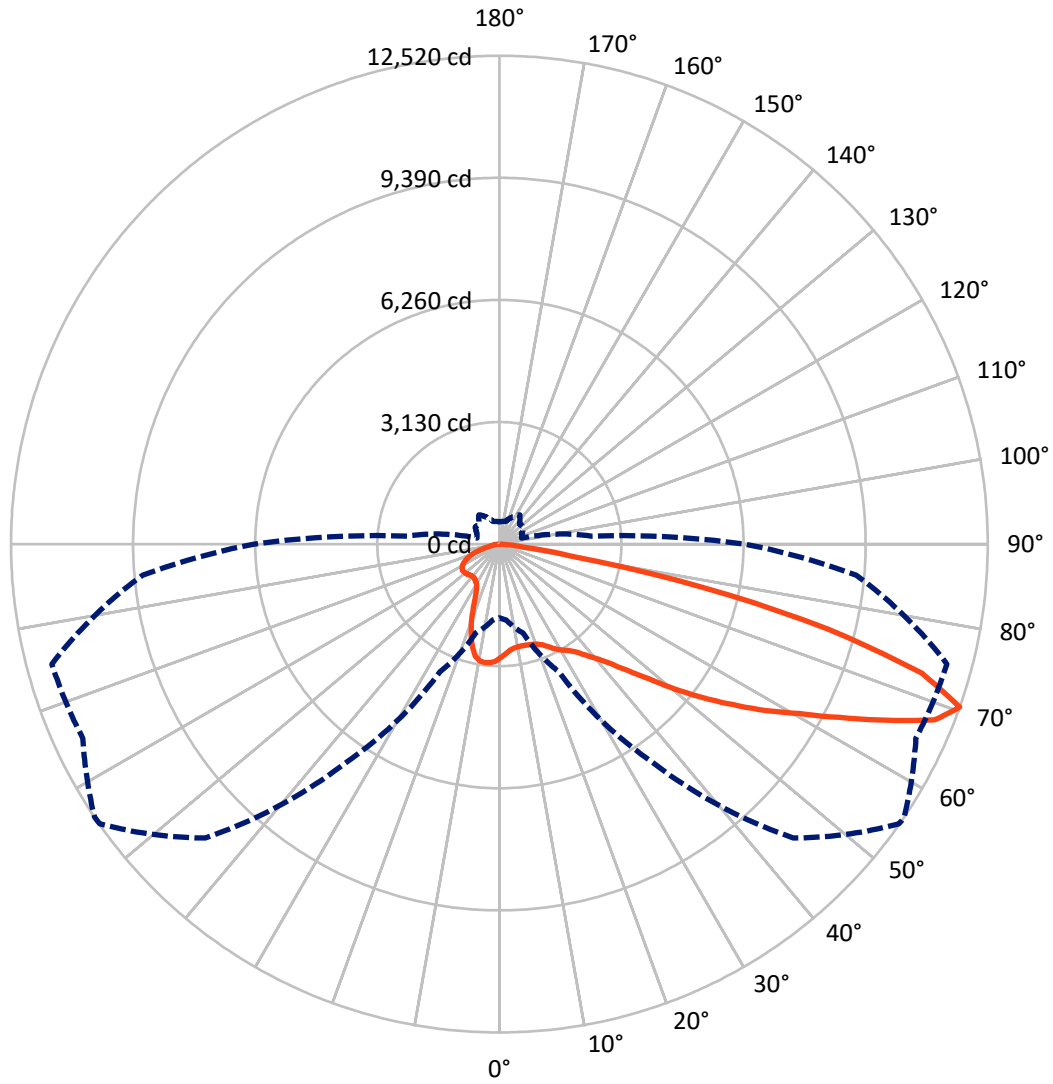
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3470.2	0.0	3470.2
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	14580.3	0.0	14580.3
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	18050.5	0.0	18050.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.6	1.5
10°-20°	730.6	4.0
20°-30°	1207.8	6.7
30°-40°	1805.8	10.0
40°-50°	2687.3	14.9
50°-60°	3820.6	21.2
60°-70°	4731.9	26.2
70°-80°	2612.8	14.5
80°-90°	184.0	1.0
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°	18050.5	100.0
0°-180°	18050.5	100.0

**Coefficient of Utilization**



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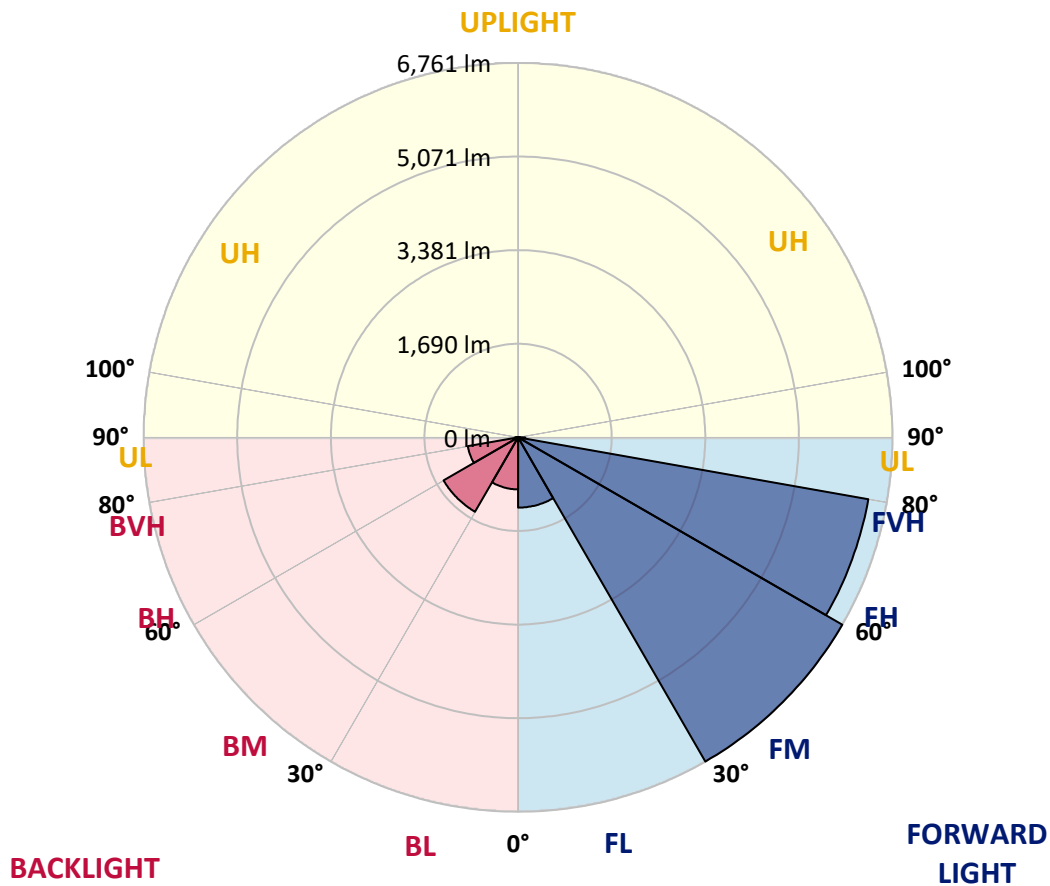
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1268.6	7.0			
FM (30°-60°)	6761.4	37.5			
FH (60°-80°)	6422.4	35.6			G3/7500
FVH (80°-90°)	127.9	0.7			G2/225
BL (0°-30°)	939.4	5.2	B2/1000		
BM (30°-60°)	1552.3	8.6	B2/2500		
BH (60°-80°)	922.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	56.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6
2.5°	2726.5	2711.2	2729.1	2738.0	2760.9	2794.0	2823.3	2824.5	2839.8	2876.7	2912.4
5°	2603.0	2595.4	2600.5	2627.2	2651.4	2693.4	2738.0	2741.8	2785.1	2857.6	2928.9
7.5°	2507.6	2497.4	2516.5	2550.9	2581.4	2628.5	2687.1	2692.1	2753.2	2862.7	2972.2
10°	2370.1	2362.5	2398.1	2443.9	2510.1	2587.8	2665.4	2671.8	2752.0	2895.8	3048.6
12.5°	2310.3	2310.3	2325.6	2368.8	2441.4	2544.5	2661.6	2671.8	2772.3	2946.7	3146.6
15°	2403.2	2409.6	2396.8	2394.3	2423.6	2521.6	2666.7	2682.0	2810.5	2998.9	3243.3
17.5°	2590.3	2596.7	2563.6	2511.4	2482.1	2543.2	2685.8	2702.3	2851.3	3056.2	3347.7
20°	2852.5	2860.2	2787.6	2707.4	2606.9	2605.6	2722.7	2738.0	2903.4	3118.6	3458.4
22.5°	3159.3	3164.4	3072.7	2945.5	2791.4	2721.4	2786.3	2801.6	2970.9	3205.1	3578.1
25°	3514.4	3529.7	3419.0	3234.4	3025.6	2880.5	2892.0	2909.8	3091.8	3321.0	3719.4
27.5°	3893.7	3912.8	3785.6	3581.9	3294.2	3056.2	3028.2	3043.5	3220.4	3392.2	3794.5
30°	4282.0	4296.0	4168.7	3935.8	3583.2	3254.8	3142.7	3151.7	3276.4	3426.6	3870.8
32.5°	4713.5	4702.0	4579.8	4311.3	3916.7	3492.8	3249.7	3247.1	3338.8	3495.3	3980.3
35°	5118.3	5134.8	5005.0	4708.4	4283.3	3786.8	3410.1	3399.9	3471.2	3607.3	4134.3
37.5°	5608.3	5603.2	5447.9	5127.2	4651.1	4068.1	3635.4	3617.5	3643.0	3781.7	4349.4
40°	5958.4	5994.0	5893.4	5594.3	5081.3	4414.4	3898.8	3859.4	3865.7	3996.9	4637.1
42.5°	6244.8	6277.9	6288.0	6097.1	5574.0	4842.0	4227.2	4187.8	4191.6	4377.4	4991.0
45°	6465.0	6509.5	6653.4	6597.4	6128.9	5335.9	4671.5	4630.7	4633.3	4839.5	5418.7
47.5°	6555.3	6603.7	6895.2	7028.9	6718.3	5926.5	5223.9	5164.1	5173.0	5400.8	5907.4
50°	6526.1	6591.0	6985.6	7361.1	7212.2	6527.3	5884.5	5842.5	5808.2	6139.1	6438.2
52.5°	6274.0	6345.3	6976.7	7572.4	7615.7	7095.0	6566.8	6542.6	6535.0	6923.2	7031.4
55°	5531.9	5651.6	6669.9	7628.4	7931.3	7629.7	7306.3	7265.6	7305.1	7763.3	7630.9
57.5°	5120.8	5209.9	6069.1	7566.0	8189.7	8138.8	8044.6	8048.4	8093.0	8676.0	8357.7
60°	4886.6	4991.0	5735.6	7395.4	8437.9	8757.4	8817.3	8817.3	8897.4	9659.9	9096.0
62.5°	4576.0	4681.7	5423.8	7067.0	8667.1	9485.5	9788.5	9784.6	9816.5	10715.1	9817.7
65°	3945.9	4043.9	4797.5	6549.0	8779.1	10287.4	10892.1	10880.6	10817.0	11654.5	10295.1
67.5°	2865.3	2958.2	3674.8	5563.8	8375.6	10934.1	12028.7	12033.8	11653.2	12246.4	10320.5
70°	1889.0	1952.6	2362.5	3613.7	6811.2	10655.3	12504.8	12520.1	11781.8	11877.3	9185.1
72.5°	1178.7	1223.2	1475.3	2155.0	4024.9	8434.1	11282.8	11324.8	10599.3	10437.6	7546.9
75°	782.8	813.4	981.4	1256.3	1862.2	4564.6	8576.7	8711.6	8495.2	8182.1	5258.3
77.5°	471.0	496.4	625.0	798.1	824.8	1783.3	5006.2	5355.0	5385.6	4271.8	2202.1
80°	215.1	244.4	345.0	455.7	439.1	621.2	1765.5	1847.0	2179.2	1356.9	695.0
82.5°	127.3	140.0	229.1	226.6	187.1	301.7	635.2	651.7	553.7	496.4	296.6
85°	50.9	59.8	96.7	85.3	68.7	98.0	239.3	250.8	240.6	216.4	109.5
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	21.6	22.9	33.1	59.8	33.1
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°	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6	2913.6
2.5°	2935.3	2927.6	2965.8	2995.1	3007.8	3020.6	3009.1	3005.3	3005.3	2979.8	2967.1
5°	2967.1	2970.9	3023.1	3047.3	3047.3	3037.1	3006.5	2984.9	2977.3	2944.2	2935.3
7.5°	3026.9	3043.5	3091.8	3090.6	3054.9	2998.9	2922.5	2864.0	2810.5	2787.6	2773.6
10°	3124.9	3146.6	3179.7	3126.2	3026.9	2879.3	2717.6	2590.3	2513.9	2452.8	2452.8
12.5°	3236.9	3257.3	3250.9	3127.5	2922.5	2646.3	2413.4	2267.0	2160.1	2104.1	2104.1
15°	3349.0	3365.5	3296.8	3068.9	2704.9	2337.0	2082.4	1906.8	1813.9	1761.7	1761.7
17.5°	3462.2	3461.0	3315.9	2934.0	2421.0	1994.6	1745.1	1608.9	1577.1	1568.2	1566.9
20°	3571.7	3542.4	3291.7	2708.7	2091.3	1649.7	1491.8	1500.7	1547.8	1568.2	1570.7
22.5°	3695.2	3622.6	3220.4	2421.0	1717.1	1410.4	1420.5	1494.4	1563.1	1593.6	1597.5
25°	3821.2	3691.4	3100.7	2083.7	1404.0	1322.5	1401.4	1484.2	1561.8	1601.3	1605.1
27.5°	3872.1	3691.4	2897.1	1692.9	1237.2	1285.6	1372.2	1452.4	1533.8	1579.6	1588.6
30°	3914.1	3659.5	2612.0	1340.3	1168.5	1250.0	1325.1	1398.9	1479.1	1535.1	1545.3
32.5°	3972.7	3631.5	2267.0	1126.5	1136.7	1215.6	1267.8	1330.2	1402.7	1439.6	1435.8
35°	4041.4	3588.3	1850.8	1024.7	1110.0	1186.3	1223.2	1260.2	1227.1	1225.8	1229.6
37.5°	4139.4	3550.1	1488.0	978.8	1092.1	1166.0	1196.5	1117.6	1071.8	1052.7	1045.0
40°	4280.7	3534.8	1173.6	952.1	1089.6	1164.7	1143.0	1020.9	958.5	892.3	891.0
42.5°	4458.9	3523.3	969.9	939.4	1098.5	1194.0	1069.2	957.2	828.6	799.4	796.8
45°	4688.0	3505.5	868.1	936.8	1120.1	1216.9	1061.6	869.4	781.5	768.8	768.8
47.5°	4964.2	3477.5	822.3	936.8	1144.3	1206.7	1038.7	850.3	759.9	773.9	782.8
50°	5281.2	3441.9	798.1	934.3	1168.5	1206.7	990.3	846.5	754.8	827.4	856.7
52.5°	5619.8	3401.1	781.5	924.1	1185.1	1208.0	992.8	859.2	759.9	840.1	864.3
55°	5994.0	3394.8	758.6	902.5	1190.1	1174.9	999.2	887.2	767.5	761.2	762.5
57.5°	6466.2	3471.2	742.1	870.7	1169.8	1107.4	1011.9	907.6	758.6	759.9	768.8
60°	6960.1	3615.0	756.1	840.1	1127.8	1043.8	1020.9	897.4	715.4	695.0	697.5
62.5°	7380.2	3724.5	767.5	826.1	1066.7	987.8	1011.9	874.5	691.2	686.1	697.5
65°	7555.8	3634.1	739.5	796.8	977.6	919.0	992.8	845.2	670.8	651.7	653.0
67.5°	7361.1	3210.2	684.8	731.9	877.0	831.2	962.3	807.0	642.8	619.9	614.8
70°	6288.0	2358.7	590.6	628.8	754.8	728.1	915.2	757.4	598.3	581.7	570.3
72.5°	5067.3	1670.0	490.1	500.2	591.9	613.5	833.7	695.0	547.3	500.2	483.7
75°	3527.2	1048.9	408.6	398.4	427.7	468.4	650.4	576.6	472.2	422.6	407.3
77.5°	1517.3	538.4	319.5	314.4	285.1	324.6	499.0	481.1	395.9	338.6	329.7
80°	507.9	311.9	230.4	221.5	189.7	227.8	351.3	384.4	310.6	250.8	235.5
82.5°	254.6	180.7	146.4	132.4	127.3	143.8	207.5	239.3	215.1	173.1	146.4
85°	124.7	103.1	80.2	78.9	66.2	62.4	86.6	101.8	96.7	71.3	67.5
87.5°	45.8	40.7	25.5	20.4	12.7	8.9	5.1	5.1	3.8	3.8	3.8
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)