

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: P637399

Luminaire Tested: GWS-SA4C-760-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-760-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19597.7 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 128.5  
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

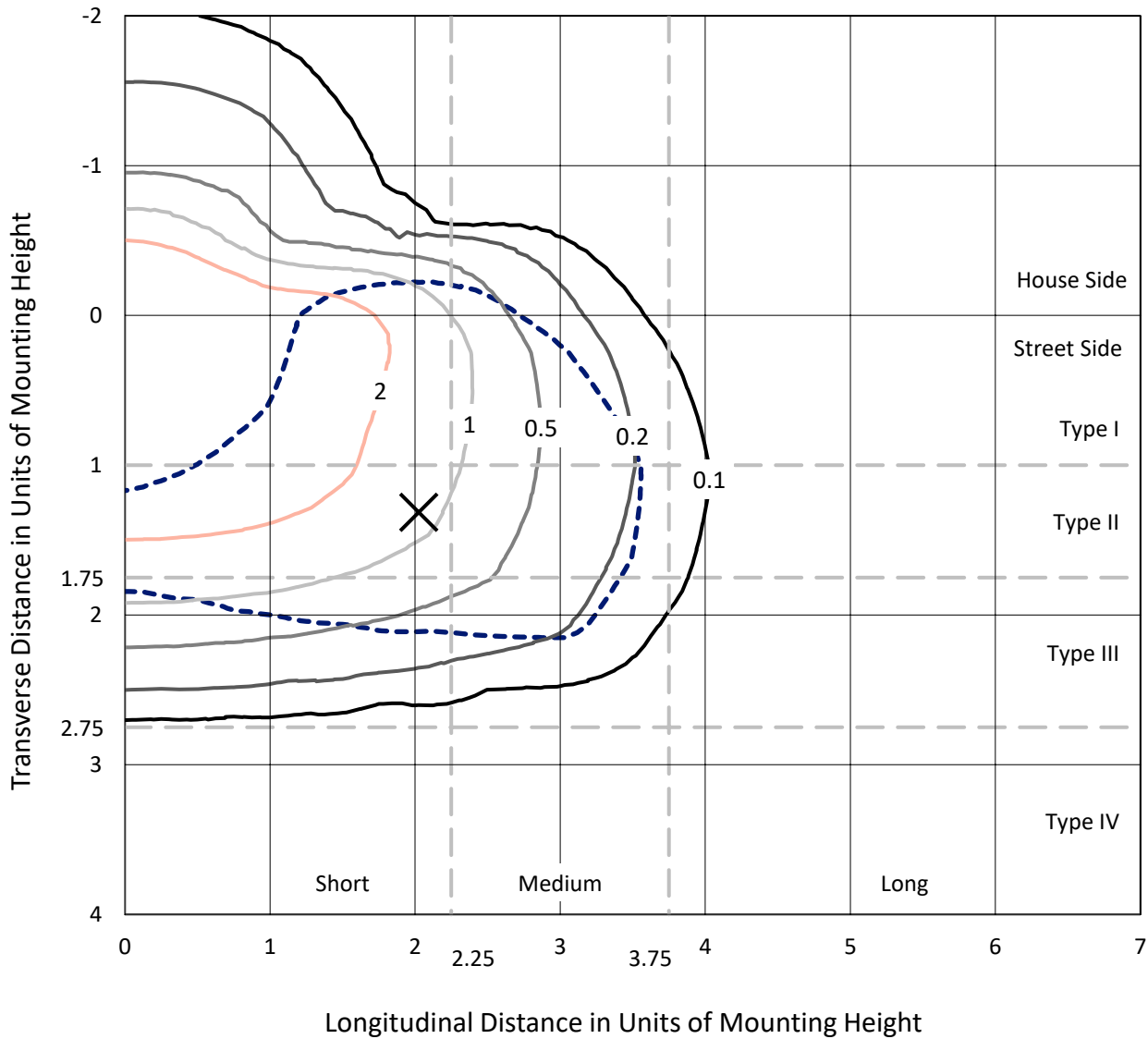


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### Iso-Footcandle Lines of Horizontal Illumination

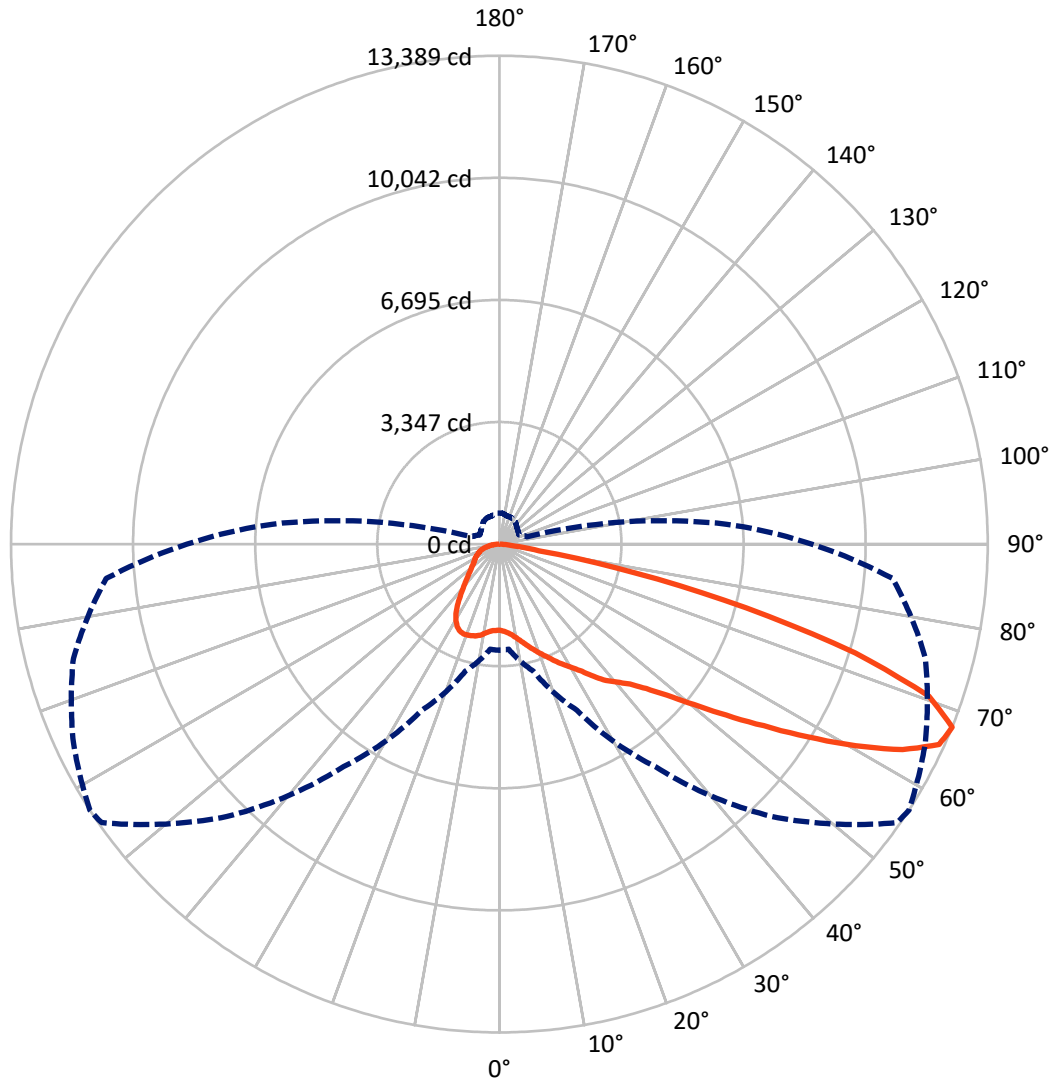
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4308.8	0.0	4308.8
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	15288.9	0.0	15288.9
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	19597.7	0.0	19597.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.2	1.2
10°-20°	775.3	4.0
20°-30°	1382.3	7.1
30°-40°	2009.6	10.3
40°-50°	2908.6	14.8
50°-60°	4551.9	23.2
60°-70°	5310.0	27.1
70°-80°	2216.6	11.3
80°-90°	209.2	1.1
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°	19597.7	100.0
0°-180°	19597.7	100.0

**Coefficient of Utilization**



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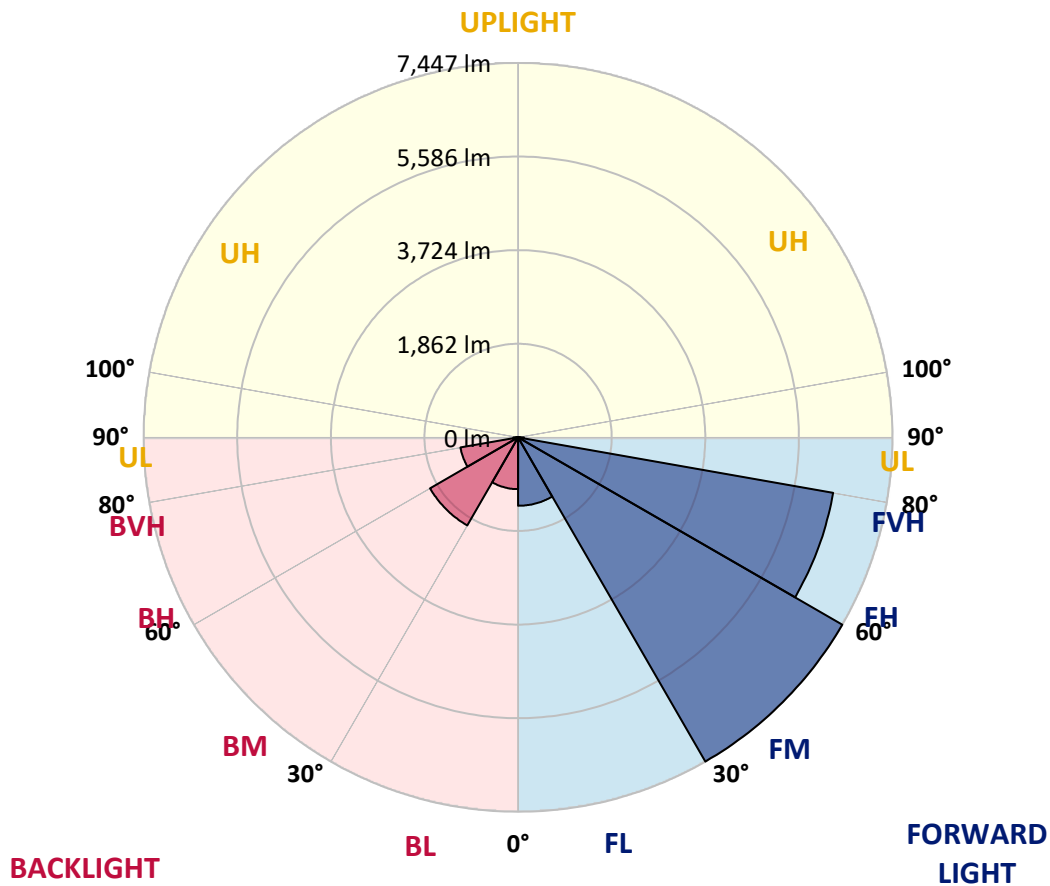
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.3	6.9			
FM (30°-60°)	7447.4	38.0			
FH (60°-80°)	6363.7	32.5			G3/7500
FVH (80°-90°)	116.5	0.6			G2/225
BL (0°-30°)	1030.5	5.3	B3/2500		
BM (30°-60°)	2022.7	10.3	B2/2500		
BH (60°-80°)	1163.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	92.6	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4
2.5°	2395.1	2392.3	2390.9	2399.3	2396.5	2395.1	2395.1	2393.7	2390.9	2379.6	2364.2
5°	2461.1	2455.5	2449.8	2456.9	2451.2	2445.6	2444.2	2441.4	2431.6	2414.7	2390.9
7.5°	2529.9	2524.2	2525.6	2529.9	2525.6	2522.8	2518.6	2515.8	2500.4	2473.7	2441.4
10°	2626.7	2626.7	2629.5	2633.7	2635.2	2630.9	2622.5	2618.3	2600.1	2566.4	2521.4
12.5°	2767.1	2764.3	2764.3	2761.5	2765.7	2761.5	2753.1	2746.1	2723.6	2680.1	2615.5
15°	2952.4	2941.2	2931.4	2913.1	2907.5	2892.1	2894.9	2890.7	2869.6	2810.6	2729.2
17.5°	3150.4	3149.0	3133.5	3097.0	3060.5	3035.3	3040.9	3039.5	3028.3	2948.2	2844.3
20°	3324.5	3331.5	3317.5	3289.4	3240.2	3192.5	3189.7	3196.7	3182.7	3102.7	2958.1
22.5°	3519.6	3514.0	3500.0	3463.5	3427.0	3376.4	3359.6	3354.0	3348.3	3257.1	3074.6
25°	3704.9	3721.8	3703.5	3669.8	3613.7	3558.9	3544.9	3550.5	3535.1	3414.3	3199.5
27.5°	3939.4	3946.4	3935.2	3888.9	3841.1	3763.9	3737.2	3737.2	3731.6	3561.7	3297.8
30°	4189.3	4208.9	4189.3	4151.4	4102.2	3991.3	3933.8	3928.2	3911.3	3713.4	3412.9
32.5°	4440.6	4454.6	4440.6	4404.1	4347.9	4251.1	4168.2	4155.6	4133.1	3879.0	3530.9
35°	4663.8	4676.4	4673.6	4682.1	4635.7	4513.6	4463.1	4457.4	4398.5	4095.2	3690.9
37.5°	4908.1	4923.5	4902.5	4919.3	4901.1	4786.0	4770.5	4742.4	4658.2	4298.8	3859.4
40°	5186.1	5200.1	5166.4	5173.4	5152.4	5087.8	5009.2	4971.3	4846.3	4519.2	4124.7
42.5°	5483.7	5516.0	5531.4	5518.8	5469.7	5433.2	5295.6	5247.8	5144.0	4916.5	4561.3
45°	5914.7	5962.4	5984.9	5952.6	5931.6	5879.6	5711.1	5653.6	5598.8	5476.7	5170.6
47.5°	6379.4	6422.9	6494.5	6508.6	6525.4	6486.1	6248.8	6192.7	6202.5	6188.5	5920.3
50°	6750.0	6786.5	6948.0	7120.7	7263.9	7275.1	6971.9	6911.5	6964.8	7009.8	6823.0
52.5°	7019.6	7051.9	7265.3	7621.9	7946.2	8186.2	7859.1	7790.3	7833.9	7934.9	7849.3
55°	7238.6	7283.5	7506.7	8054.3	8709.9	9089.0	8879.8	8792.7	8774.5	8899.4	8948.6
57.5°	7353.7	7367.8	7680.8	8392.6	9270.1	9974.8	10066.1	9967.8	9793.7	9862.5	10118.0
60°	7091.2	7115.1	7543.2	8479.7	9712.3	10853.7	11311.4	11229.9	10859.3	10897.2	11179.4
62.5°	6365.4	6399.1	6914.3	8065.5	9748.8	11440.5	12461.2	12409.2	11912.2	11707.3	11791.5
65°	5106.0	5117.3	5650.8	7040.6	9023.0	11513.5	13262.8	13250.2	12647.9	12167.8	11806.9
67.5°	2911.7	2892.1	3605.3	5021.8	7446.4	10564.5	13314.8	13389.2	12886.6	12091.9	10824.2
70°	1262.1	1264.9	1593.4	2477.9	4819.6	8538.6	12367.1	12494.9	12195.8	10829.8	8611.6
72.5°	584.0	592.5	734.2	1072.6	2058.1	5297.0	10084.3	10199.5	9942.5	8667.8	6265.7
75°	412.8	419.8	490.0	614.9	946.2	2063.8	6745.8	6987.3	7112.2	6483.3	4128.9
77.5°	313.1	322.9	358.0	426.8	584.0	731.4	3227.6	3803.2	4530.4	4033.5	2126.9
80°	199.4	199.4	237.3	285.0	356.6	380.5	932.2	1104.9	2216.8	1662.2	835.3
82.5°	134.8	139.0	161.5	181.1	205.0	216.2	400.1	426.8	640.2	565.8	344.0
85°	71.6	74.4	84.2	82.8	98.3	85.6	168.5	167.1	234.5	256.9	130.6
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	18.3	19.7	49.1	78.6	43.5
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°	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4	2361.4
2.5°	2372.6	2355.8	2364.2	2361.4	2369.8	2369.8	2354.4	2350.2	2351.6	2334.7	2329.1
5°	2393.7	2374.0	2378.2	2372.6	2381.0	2388.1	2381.0	2381.0	2389.5	2376.8	2369.8
7.5°	2441.4	2419.0	2419.0	2411.9	2421.8	2427.4	2421.8	2430.2	2445.6	2433.0	2426.0
10°	2517.2	2490.5	2492.0	2483.5	2487.7	2484.9	2462.5	2455.5	2459.7	2448.4	2442.8
12.5°	2615.5	2579.0	2579.0	2562.1	2552.3	2522.8	2476.5	2459.7	2462.5	2452.6	2448.4
15°	2709.6	2675.9	2668.8	2635.2	2590.2	2535.5	2493.4	2482.1	2484.9	2475.1	2468.1
17.5°	2820.5	2776.9	2751.7	2689.9	2607.1	2550.9	2508.8	2482.1	2459.7	2437.2	2431.6
20°	2923.0	2868.2	2821.9	2726.4	2625.3	2548.1	2469.5	2403.5	2348.8	2319.3	2312.3
22.5°	3028.3	2958.1	2876.6	2751.7	2623.9	2497.6	2353.0	2253.3	2171.9	2128.3	2136.8
25°	3127.9	3039.5	2928.6	2775.5	2579.0	2385.3	2188.7	2039.9	1947.2	1913.5	1903.7
27.5°	3210.8	3101.3	2976.3	2764.3	2486.3	2223.8	1964.1	1798.4	1708.6	1670.7	1660.8
30°	3303.4	3179.9	3045.1	2712.4	2340.3	1997.8	1710.0	1575.2	1510.6	1474.1	1475.5
32.5°	3410.1	3281.0	3142.0	2612.7	2153.6	1753.5	1500.8	1408.1	1356.2	1319.7	1314.1
35°	3553.3	3425.6	3206.5	2462.5	1916.3	1528.9	1357.6	1281.8	1217.2	1169.5	1159.6
37.5°	3730.2	3643.2	3213.6	2261.7	1662.2	1374.4	1255.1	1173.7	1095.1	1031.9	1024.9
40°	4033.5	3933.8	3156.0	2010.4	1446.0	1274.8	1169.5	1075.4	984.1	914.0	904.1
42.5°	4465.9	4260.9	3032.5	1726.8	1283.2	1196.1	1088.0	968.7	876.0	826.9	819.9
45°	5016.2	4625.9	2847.1	1460.1	1162.4	1118.9	1002.4	877.4	828.3	793.2	786.2
47.5°	5690.1	5051.3	2633.7	1252.3	1068.4	1048.7	915.4	846.6	803.0	773.6	766.5
50°	6495.9	5593.2	2458.3	1089.4	984.1	967.3	887.3	828.3	793.2	769.3	763.7
52.5°	7415.5	6195.5	2372.6	972.9	911.1	894.3	877.4	824.1	794.6	776.4	769.3
55°	8370.2	6830.1	2292.6	883.1	849.4	859.2	878.9	838.1	815.7	791.8	784.8
57.5°	9292.5	7425.3	2096.0	812.9	804.4	842.4	885.9	852.2	825.5	801.6	793.2
60°	9928.5	7751.0	1763.3	756.7	770.8	821.3	867.6	831.1	797.4	787.6	783.4
62.5°	10099.8	7711.7	1368.8	699.2	730.0	775.0	819.9	796.0	760.9	776.4	777.8
65°	9699.7	7290.5	1027.7	643.0	676.7	714.6	770.8	760.9	748.3	790.4	791.8
67.5°	8566.7	6255.9	783.4	593.9	621.9	668.3	755.3	796.0	798.8	852.2	846.6
70°	6481.9	4673.6	613.5	547.5	579.8	668.3	804.4	822.7	789.0	838.1	826.9
72.5°	4481.3	3084.4	522.3	506.8	527.9	637.4	803.0	803.0	766.5	766.5	745.5
75°	2784.0	1813.9	454.9	454.9	454.9	557.4	780.6	739.9	675.3	645.8	629.0
77.5°	1374.4	881.7	381.9	395.9	380.5	466.1	637.4	605.1	565.8	534.9	523.7
80°	586.8	440.8	308.9	324.3	306.1	351.0	505.4	498.4	460.5	419.8	407.1
82.5°	269.6	227.4	247.1	254.1	223.2	263.9	369.2	369.2	348.2	292.0	271.0
85°	115.1	120.7	171.3	171.3	140.4	148.8	198.0	188.1	168.5	137.6	126.4
87.5°	39.3	59.0	87.0	75.8	29.5	12.6	7.0	2.8	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)