

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: P637405

Luminaire Tested: GWS-SA4C-760-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637405  
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-SA4C-760-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

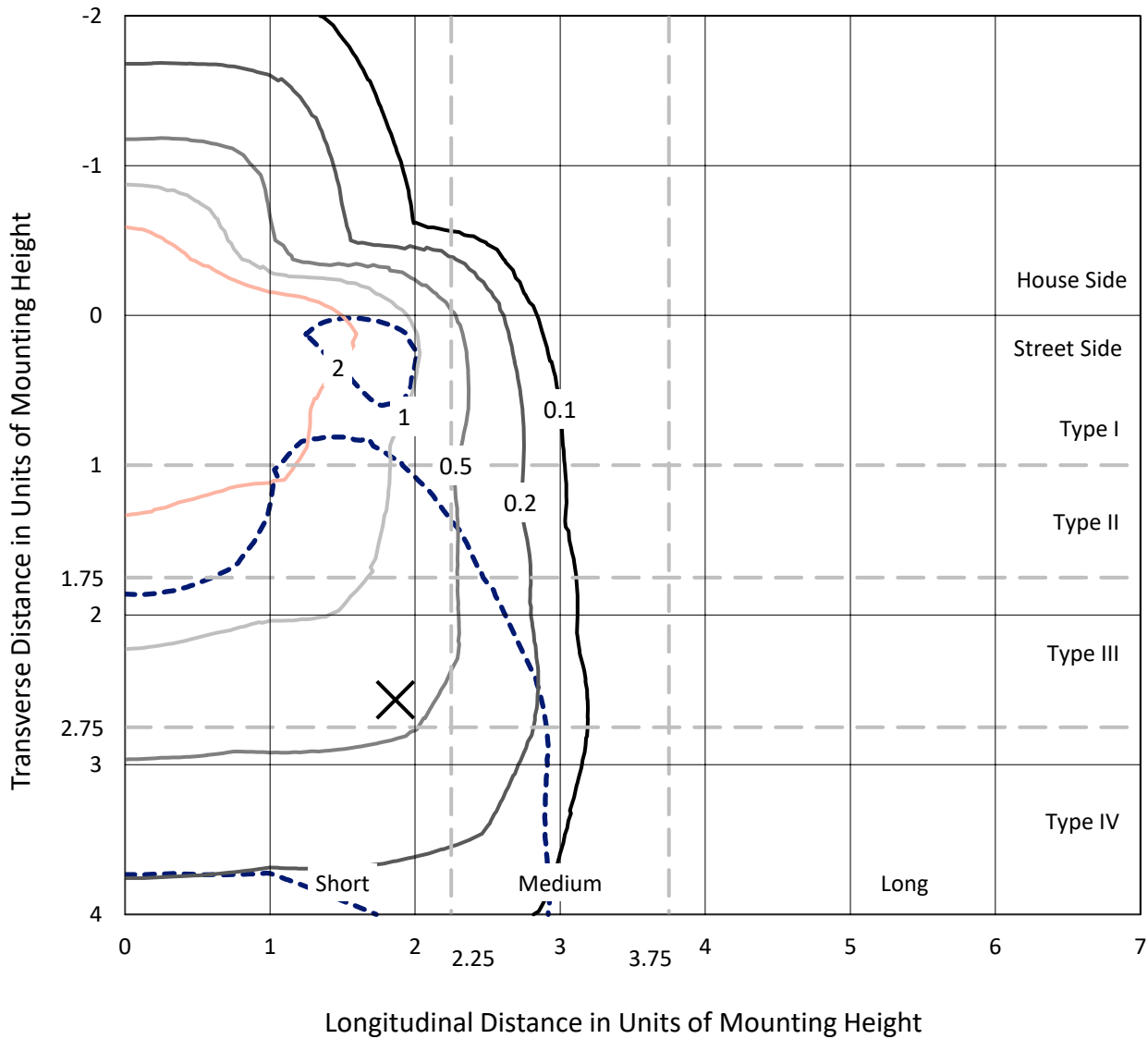
Lumens per Lamp: N/A  
Luminaire Lumens: 18916.7 lumens  
Efficiency: N/A  
Efficacy: 147.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

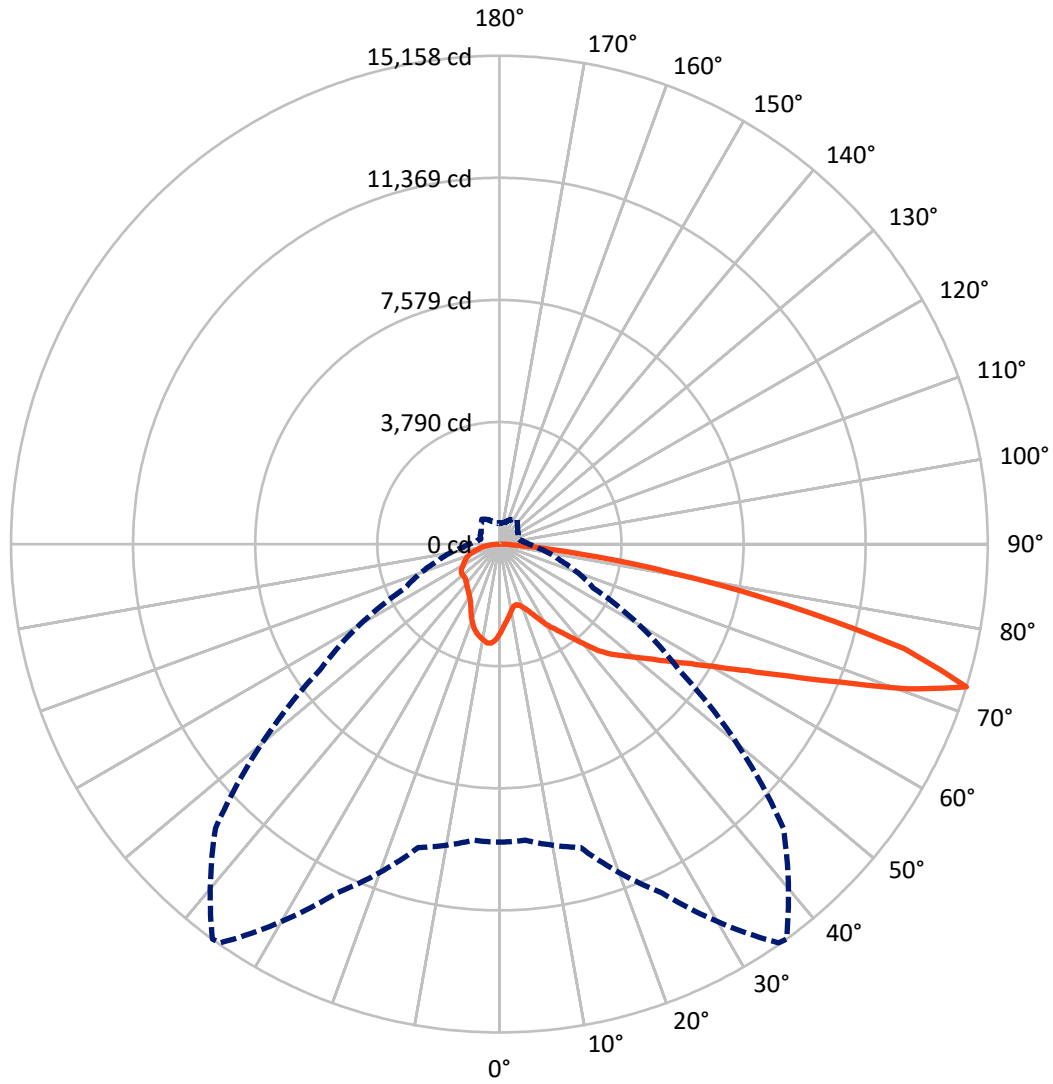
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	4361.1	0.0	4361.1
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	14555.6	0.0	14555.6
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	18916.7	0.0	18916.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.8	1.4
10°-20°	730.1	3.9
20°-30°	1209.2	6.4
30°-40°	1810.9	9.6
40°-50°	2641.9	14.0
50°-60°	3760.2	19.9
60°-70°	4750.8	25.1
70°-80°	3385.3	17.9
80°-90°	369.6	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°	18916.7	100.0
0°-180°	18916.7	100.0

**Coefficient of Utilization**



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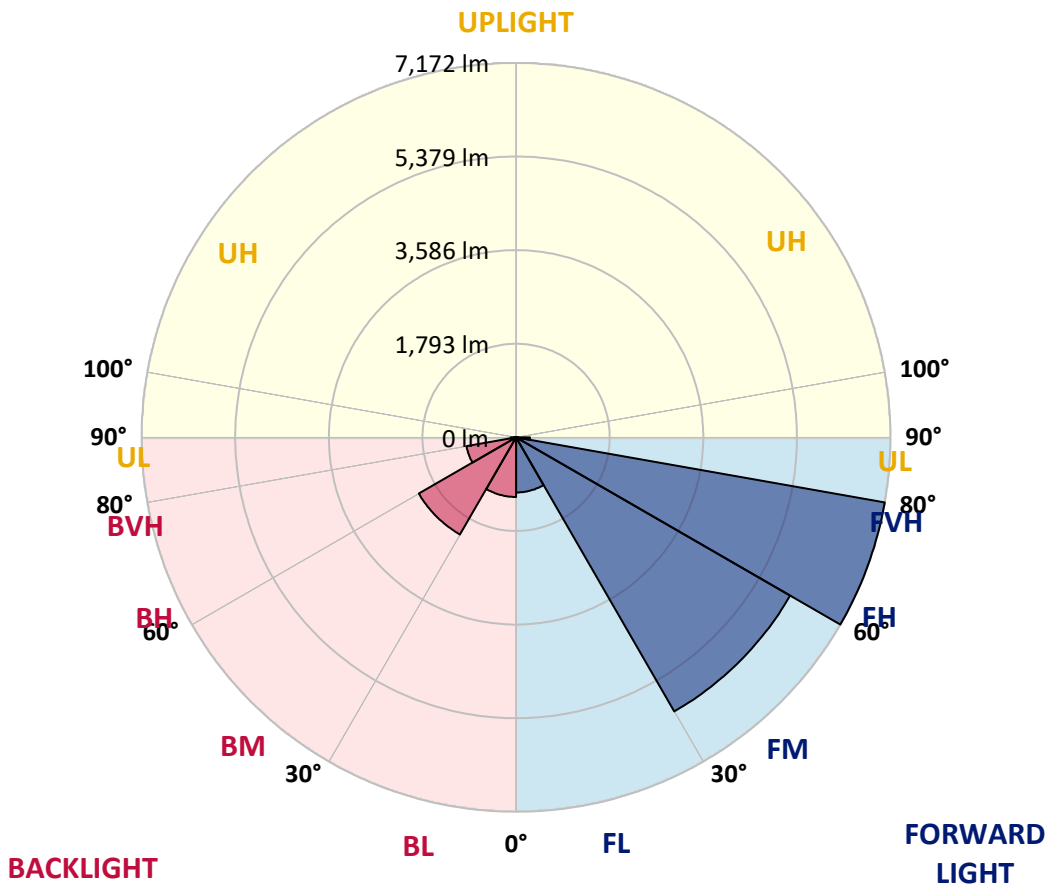
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1056.1	5.6			
FM (30°-60°)	6062.3	32.0			
FH (60°-80°)	7171.9	37.9			G3/7500
FVH (80°-90°)	265.3	1.4			G3/500
BL (0°-30°)	1142.0	6.0	B3/2500		
BM (30°-60°)	2150.7	11.4	B2/2500		
BH (60°-80°)	964.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	104.3	0.6			G2/225
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°	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5
2.5°	2525.7	2521.5	2513.0	2538.3	2563.6	2560.8	2595.9	2629.6	2666.1	2704.0	2754.5
5°	2323.5	2320.7	2313.7	2351.6	2389.5	2388.1	2445.6	2500.4	2574.8	2656.2	2757.3
7.5°	2121.3	2114.3	2124.1	2171.9	2225.2	2230.8	2309.5	2399.3	2507.4	2629.6	2772.8
10°	1943.0	1941.6	1945.8	1999.2	2079.2	2084.8	2185.9	2310.9	2454.1	2616.9	2807.9
12.5°	1896.7	1893.9	1882.7	1909.3	1969.7	1978.1	2089.0	2242.1	2417.6	2623.9	2855.6
15°	1972.5	1965.5	1926.2	1913.6	1943.0	1950.1	2044.1	2201.4	2396.5	2636.6	2916.0
17.5°	2103.1	2098.9	2024.5	1972.5	1992.2	1997.8	2068.0	2194.3	2390.9	2661.8	2990.4
20°	2294.0	2275.8	2159.2	2080.6	2080.6	2089.0	2131.2	2225.2	2397.9	2692.7	3074.6
22.5°	2546.7	2510.2	2346.0	2239.3	2211.2	2222.4	2240.7	2302.4	2427.4	2744.7	3179.9
25°	2830.3	2796.6	2601.5	2451.3	2411.9	2416.2	2400.7	2411.9	2492.0	2816.3	3310.5
27.5°	3132.2	3109.7	2901.9	2711.0	2649.2	2649.2	2594.5	2567.8	2581.8	2897.7	3456.5
30°	3401.7	3370.8	3195.3	2986.2	2904.7	2904.7	2800.8	2743.3	2709.6	2997.4	3651.6
32.5°	3543.5	3525.3	3408.7	3248.7	3149.0	3133.6	3043.7	2976.3	2897.7	3144.8	3915.6
35°	3728.8	3724.6	3654.4	3529.5	3403.1	3380.7	3318.9	3265.5	3129.4	3328.7	4266.5
37.5°	3961.9	3954.9	3943.6	3869.2	3717.6	3713.4	3658.6	3594.1	3417.2	3594.1	4691.9
40°	4223.0	4210.4	4196.3	4194.9	4103.7	4088.2	4084.0	4011.0	3763.9	3914.1	5135.6
42.5°	4582.4	4538.9	4406.9	4465.9	4533.3	4519.2	4572.6	4463.1	4196.3	4294.6	5555.3
45°	5024.7	4918.0	4656.8	4673.7	4843.5	4871.6	5056.9	5030.3	4672.3	4734.0	5997.6
47.5°	5290.0	5197.3	4954.5	4940.4	5152.4	5187.5	5590.4	5641.0	5184.7	5263.3	6543.7
50°	5507.6	5443.0	5243.7	5263.3	5488.0	5523.0	6119.7	6227.8	5667.7	5805.2	7178.3
52.5°	5770.1	5677.5	5523.0	5615.7	5890.9	5933.0	6708.0	6824.5	6102.9	6400.5	7835.3
55°	5917.6	5879.6	5882.5	6024.3	6369.6	6427.2	7324.3	7304.6	6501.6	6910.1	8329.5
57.5°	6257.3	6243.3	6372.4	6425.8	6928.4	7002.8	7940.6	7772.1	6863.8	7304.6	8566.8
60°	6856.8	6821.7	6934.0	7015.4	7619.1	7724.4	8628.5	8229.8	7109.5	7598.1	8486.7
62.5°	7699.1	7655.6	7659.8	7789.0	8544.3	8655.2	9393.7	8611.7	7185.3	7643.0	7979.9
65°	8746.5	8683.3	8611.7	8787.2	9772.7	9865.4	10226.2	8889.7	7004.2	7210.6	6921.4
67.5°	9851.4	9799.4	9715.2	10083.0	11363.4	11419.5	11159.8	8865.8	6430.0	6053.7	4854.8
70°	9915.9	9928.6	10327.3	11658.2	13439.8	13453.8	12042.9	8385.7	5207.2	3924.0	2419.0
72.5°	9250.5	9229.4	9748.9	11946.0	15110.5	15158.2	12459.9	6793.6	3217.8	1957.1	1134.4
75°	7513.8	7550.3	8096.4	10452.2	12951.2	12993.3	10157.4	4005.4	1528.9	957.5	725.8
77.5°	3234.6	3438.2	4515.0	7363.6	9275.7	9145.2	5235.2	1622.9	815.7	682.3	556.0
80°	933.6	1013.6	1608.9	3501.4	5558.1	5459.9	2072.2	607.9	568.6	512.4	398.7
82.5°	301.8	334.1	589.6	1394.1	2490.6	2487.8	786.2	359.4	372.0	348.2	256.9
85°	84.2	96.9	181.1	422.6	770.8	755.3	227.4	169.9	198.0	200.8	127.8
87.5°	0.0	0.0	1.4	2.8	2.8	2.8	5.6	25.3	57.6	73.0	51.9
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°	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5	2768.5
2.5°	2785.4	2781.2	2838.7	2883.7	2925.8	2953.9	2962.3	2967.9	2979.1	2984.7	2979.1
5°	2805.0	2826.1	2921.6	2991.8	3047.9	3081.6	3083.0	3080.2	3088.6	3081.6	3077.4
7.5°	2847.2	2887.9	3008.6	3083.0	3119.5	3120.9	3087.2	3047.9	3028.3	3011.4	3005.8
10°	2903.3	2963.7	3095.7	3144.8	3133.6	3081.6	3007.2	2945.4	2910.3	2885.1	2879.5
12.5°	2980.5	3047.9	3172.9	3171.5	3101.3	3008.6	2921.6	2847.2	2796.6	2767.1	2757.3
15°	3053.5	3139.2	3229.0	3163.0	3052.1	2939.8	2827.5	2727.8	2660.4	2614.1	2605.7
17.5°	3143.4	3234.6	3269.7	3136.4	2990.4	2845.8	2695.5	2565.0	2473.7	2419.0	2414.8
20°	3247.3	3328.7	3289.4	3090.0	2910.3	2720.8	2517.2	2371.2	2273.0	2219.6	2223.8
22.5°	3368.0	3427.0	3295.0	3026.9	2799.4	2543.9	2316.5	2176.1	2110.1	2082.0	2083.4
25°	3497.2	3535.1	3285.2	2941.2	2629.6	2327.7	2110.1	2045.5	2039.9	2032.9	2035.7
27.5°	3650.2	3641.8	3255.7	2820.5	2400.7	2076.4	1965.5	1982.3	2004.8	2002.0	2004.8
30°	3855.2	3775.2	3217.8	2653.4	2128.4	1865.8	1879.9	1927.6	1957.1	1959.9	1968.3
32.5°	4089.6	3922.6	3157.4	2426.0	1868.6	1747.9	1799.8	1857.4	1892.5	1899.5	1910.7
35°	4369.0	4091.0	3050.7	2142.4	1681.9	1677.7	1725.4	1764.7	1802.6	1805.4	1805.4
37.5°	4690.5	4259.5	2880.9	1829.3	1566.8	1617.3	1662.2	1670.7	1680.5	1672.1	1676.3
40°	4985.3	4422.4	2639.4	1544.3	1472.7	1564.0	1601.9	1573.8	1542.9	1521.9	1526.1
42.5°	5232.4	4533.3	2319.3	1345.0	1377.3	1516.2	1545.7	1488.2	1427.8	1388.5	1394.1
45°	5510.4	4635.8	1943.0	1210.2	1295.8	1482.5	1502.2	1427.8	1350.6	1291.6	1283.2
47.5°	5893.7	4845.0	1608.9	1116.1	1238.3	1464.3	1496.6	1395.5	1294.4	1206.0	1196.1
50°	6366.8	5141.2	1329.5	1054.3	1211.6	1454.5	1495.2	1360.4	1239.7	1135.8	1128.8
52.5°	6883.5	5430.4	1123.1	1006.6	1184.9	1425.0	1488.2	1321.1	1182.1	1069.8	1061.4
55°	7227.4	5544.1	984.2	961.7	1141.4	1378.7	1460.1	1283.2	1095.1	992.6	979.9
57.5°	7328.5	5398.1	887.3	921.0	1085.2	1314.1	1406.7	1203.2	1041.7	960.3	950.5
60°	7154.4	5030.3	826.9	887.3	1023.5	1231.2	1314.1	1156.8	999.6	926.6	919.6
62.5°	6663.0	4463.1	780.6	852.2	960.3	1144.2	1255.1	1100.7	953.3	895.7	885.9
65°	5674.7	3660.0	742.7	815.7	899.9	1061.4	1190.5	1044.5	902.7	859.2	848.0
67.5°	3968.9	2570.6	702.0	772.2	839.5	981.3	1123.1	992.6	850.8	818.5	807.3
70°	1940.2	1363.2	652.8	721.6	775.0	899.9	1055.8	929.4	782.0	763.7	748.3
72.5°	923.8	762.3	595.3	652.8	686.5	791.8	943.4	838.1	700.6	661.2	634.6
75°	619.1	541.9	519.5	571.4	579.8	664.1	808.7	723.0	617.7	572.8	550.3
77.5°	468.9	414.2	436.6	483.0	466.1	546.1	665.5	644.4	557.4	516.6	505.4
80°	329.9	301.8	346.8	374.8	362.2	464.7	599.5	551.7	459.1	414.2	405.7
82.5°	207.8	202.2	255.5	259.7	263.9	367.8	492.8	433.8	356.6	293.4	272.4
85°	103.9	115.1	153.0	153.0	151.6	189.5	280.8	244.3	192.3	153.0	148.8
87.5°	35.1	49.1	66.0	53.3	40.7	32.3	36.5	44.9	47.7	46.3	46.3
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)