

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: P643221

Luminaire Tested: GWS-SA6E-740-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

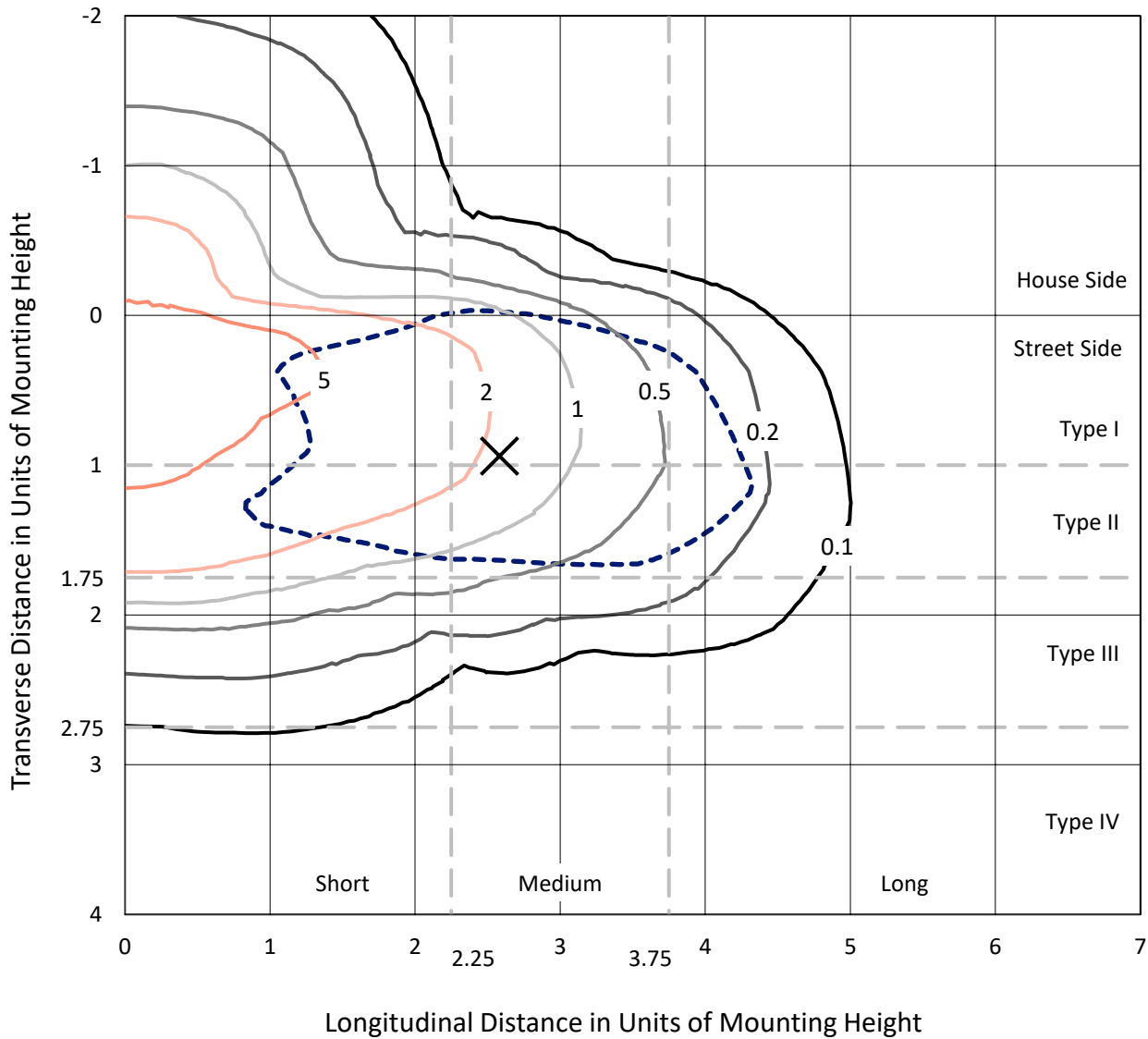
Lumens per Lamp: N/A  
Luminaire Lumens: 44413.1 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

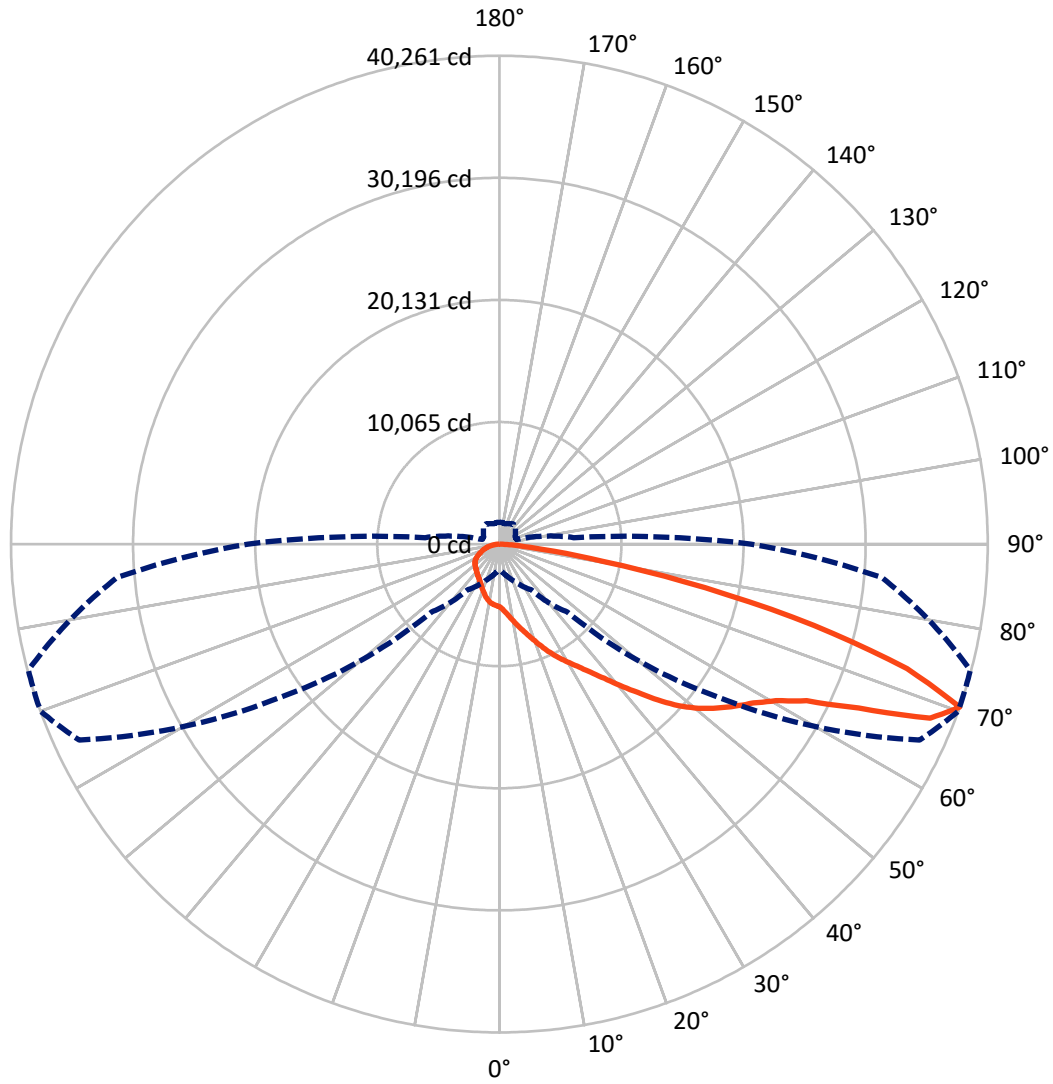
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7958.9	0.0	7958.9
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	36454.2	0.0	36454.2
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	44413.1	0.0	44413.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.4	1.2
10°-20°	1712.5	3.9
20°-30°	3033.7	6.8
30°-40°	4565.9	10.3
40°-50°	6907.6	15.6
50°-60°	9895.5	22.3
60°-70°	10938.4	24.6
70°-80°	6172.8	13.9
80°-90°	660.3	1.5
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°	44413.1	100.0
0°-180°	44413.1	100.0

**Coefficient of Utilization**



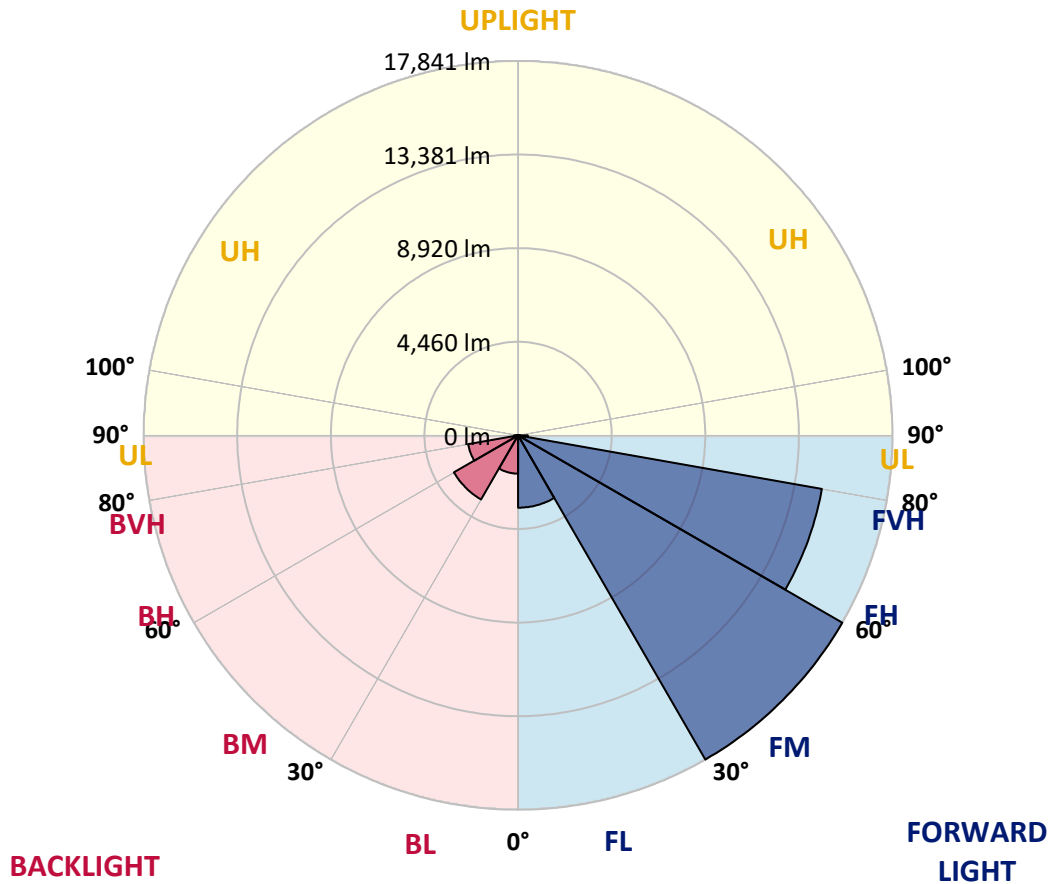
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CATALOG NUMBER: GWS-SA6E-740-U-T2-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3447.8	7.8			
FM (30°-60°)	17840.7	40.2			
FH (60°-80°)	14698.9	33.1			G5
FVH (80°-90°)	466.7	1.1			G3/500
BL (0°-30°)	1824.9	4.1	B3/2500		
BM (30°-60°)	3528.2	7.9	B3/5000		
BH (60°-80°)	2412.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	193.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5
2.5°	5737.9	5728.2	5734.7	5728.2	5692.9	5606.3	5535.7	5445.8	5384.9	5349.6	5266.1
5°	6411.8	6402.2	6379.7	6347.6	6283.4	6164.7	5988.2	5792.4	5673.7	5583.8	5407.3
7.5°	6896.4	6896.4	6893.1	6854.6	6809.7	6684.6	6476.0	6219.2	6045.9	5891.9	5603.1
10°	7143.5	7159.5	7182.0	7236.5	7226.9	7159.5	6963.7	6687.8	6469.5	6289.8	5859.8
12.5°	7278.2	7287.9	7326.4	7438.7	7554.2	7570.3	7454.7	7165.9	6928.4	6687.8	6145.4
15°	7451.5	7454.7	7506.1	7640.9	7810.9	7981.0	7952.1	7663.3	7419.4	7153.1	6463.1
17.5°	7586.3	7608.8	7701.8	7859.1	8070.9	8305.2	8446.4	8266.6	7965.0	7660.1	6809.7
20°	7634.4	7650.5	7772.4	8013.1	8301.9	8632.5	8947.0	8898.8	8594.0	8234.6	7201.2
22.5°	7807.7	7807.7	7897.6	8099.8	8439.9	8921.3	9431.5	9556.7	9287.1	8866.7	7621.6
25°	8189.6	8176.8	8218.5	8301.9	8558.7	9152.4	9909.7	10285.2	9983.5	9511.8	8042.0
27.5°	8712.7	8706.3	8703.1	8715.9	8802.6	9354.5	10314.0	10965.5	10663.8	10131.1	8417.5
30°	9280.7	9261.5	9303.2	9264.7	9245.4	9595.2	10657.4	11575.2	11341.0	10744.1	8728.8
32.5°	10054.1	10018.8	10009.2	9884.0	9807.0	9970.7	10933.4	12268.4	12082.3	11405.1	9078.5
35°	11074.6	11042.5	10878.8	10679.9	10452.0	10529.1	11276.8	12945.5	12958.3	12233.1	9537.4
37.5°	12104.7	12111.1	11982.8	11514.3	11280.0	11235.1	11799.9	13770.2	14046.2	13221.5	10131.1
40°	12961.6	13000.1	13000.1	12505.9	12156.1	12114.4	12534.7	14749.0	15297.8	14434.5	10882.1
42.5°	13613.0	13648.3	13760.6	13404.4	13035.4	13179.8	13426.9	15731.0	16716.2	15933.2	11832.0
45°	14328.6	14357.5	14418.5	14213.1	13998.1	14383.2	14437.7	16905.5	18340.0	17614.7	12935.9
47.5°	15278.5	15252.9	15259.3	15108.4	14941.6	15564.1	15551.3	17893.9	19909.3	19456.8	14132.9
50°	16459.5	16507.6	16462.7	16164.2	15968.5	16536.5	16610.3	18988.2	21289.2	21279.5	15339.5
52.5°	17595.5	17614.7	17852.2	17865.1	17463.9	17345.2	17537.7	20092.2	22454.1	22948.3	16498.0
55°	17653.3	17727.1	18439.5	18952.9	19601.2	18648.1	18474.8	21144.8	23580.5	24581.7	17701.4
57.5°	16424.2	16542.9	17752.7	18859.9	20663.4	20884.8	20079.3	22505.4	24706.9	26189.5	19094.1
60°	13799.1	14046.2	15689.3	17383.7	20185.2	22492.6	23362.2	24353.9	26186.3	27832.5	20785.3
62.5°	8812.2	8908.5	11212.6	14049.4	18031.9	22335.3	26937.2	27611.1	28439.0	29973.0	23391.1
65°	4412.5	4720.6	6071.6	8385.4	13003.3	19681.4	28743.9	33576.8	32562.7	33637.8	27614.3
67.5°	2994.1	3093.6	3777.1	5038.3	7624.8	13943.5	27623.9	38602.3	38303.8	38480.3	32116.7
70°	2207.9	2272.0	2811.2	3568.5	4611.5	7916.8	21992.0	38223.6	40261.4	40197.2	31644.9
72.5°	1611.0	1643.1	2050.6	2724.5	3417.7	4094.8	13430.1	30878.0	35146.1	36997.7	27675.3
75°	1171.3	1209.8	1424.8	2037.8	2657.1	2554.4	6630.0	22303.2	26802.4	30364.5	22547.1
77.5°	872.9	921.0	1020.5	1277.2	1861.3	1829.2	2865.7	14482.7	17335.6	19832.2	13696.4
80°	629.0	638.6	696.4	818.3	1180.9	1071.8	1363.9	7551.0	8658.2	9486.1	5368.8
82.5°	381.9	391.5	465.3	503.8	731.7	673.9	709.2	2445.3	3504.3	3719.3	2005.7
85°	112.3	118.7	211.8	231.1	304.9	288.8	285.6	994.8	1187.4	1517.9	789.4
87.5°	0.0	0.0	0.0	0.0	3.2	19.3	35.3	176.5	266.4	369.0	192.5
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°	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5	5179.5
2.5°	5234.0	5160.2	5121.7	5054.3	5006.2	4958.1	4909.9	4865.0	4845.7	4816.9	4823.3
5°	5327.1	5211.6	5096.1	4964.5	4852.2	4759.1	4675.7	4601.8	4569.8	4540.9	4553.7
7.5°	5468.3	5295.0	5073.6	4832.9	4656.4	4528.0	4441.4	4390.0	4374.0	4351.5	4351.5
10°	5648.0	5388.1	4999.8	4656.4	4444.6	4341.9	4303.4	4300.2	4316.2	4319.4	4313.0
12.5°	5847.0	5477.9	4890.7	4447.8	4268.1	4236.0	4264.9	4319.4	4374.0	4402.9	4396.5
15°	6052.4	5535.7	4704.5	4248.8	4139.7	4181.5	4274.5	4383.6	4489.5	4544.1	4540.9
17.5°	6244.9	5548.5	4463.9	4056.3	4027.4	4133.3	4293.8	4463.9	4608.3	4685.3	4688.5
20°	6459.9	5526.1	4216.8	3883.0	3915.1	4088.4	4300.2	4505.6	4675.7	4752.7	4771.9
22.5°	6655.7	5449.1	3976.1	3719.3	3818.8	4033.8	4248.8	4441.4	4592.2	4666.0	4691.7
25°	6832.2	5301.4	3712.9	3581.4	3745.0	3956.8	4120.5	4255.3	4361.2	4406.1	4441.4
27.5°	6928.4	5080.0	3514.0	3472.2	3674.4	3847.7	3937.6	3979.3	4014.6	4001.7	4027.4
30°	6947.7	4804.0	3340.7	3385.6	3568.5	3696.9	3716.1	3674.4	3613.4	3514.0	3536.4
32.5°	6928.4	4486.3	3196.3	3292.5	3449.8	3526.8	3501.1	3392.0	3244.4	3090.4	3100.0
35°	6934.9	4165.4	3077.5	3189.8	3311.8	3353.5	3289.3	3138.5	2981.3	2840.1	2833.6
37.5°	7005.5	3895.8	2978.0	3090.4	3177.0	3183.4	3112.8	2955.6	2875.4	2769.5	2756.6
40°	7201.2	3696.9	2888.2	2990.9	3045.4	3042.2	2962.0	2849.7	2904.2	2868.9	2859.3
42.5°	7522.1	3574.9	2814.4	2885.0	2923.5	2929.9	2865.7	2795.1	2913.9	2868.9	2852.9
45°	8038.8	3568.5	2763.0	2779.1	2840.1	2885.0	2840.1	2759.8	2804.8	2586.5	2544.8
47.5°	8651.7	3677.6	2724.5	2686.0	2791.9	2872.1	2801.5	2673.2	2580.1	2381.2	2352.3
50°	9389.8	3899.1	2689.2	2586.5	2721.3	2824.0	2753.4	2576.9	2435.7	2329.8	2313.8
52.5°	10265.9	4191.1	2644.3	2474.2	2615.4	2798.3	2753.4	2567.3	2381.2	2284.9	2268.8
55°	11183.7	4528.0	2593.0	2339.4	2496.7	2804.8	2775.9	2499.9	2339.4	2288.1	2275.3
57.5°	12322.9	4932.4	2499.9	2182.2	2390.8	2747.0	2686.0	2461.4	2310.6	2268.8	2256.0
60°	13802.3	5532.5	2323.4	2021.7	2268.8	2644.3	2605.8	2397.2	2233.5	2198.2	2188.6
62.5°	16145.0	6549.8	2108.4	1867.7	2124.4	2429.3	2487.1	2275.3	2137.3	2134.1	2130.8
65°	19963.8	7772.4	1854.9	1729.7	1973.6	2252.8	2329.8	2150.1	2037.8	2073.1	2069.9
67.5°	22640.2	7878.3	1646.3	1585.3	1797.1	2060.2	2172.6	2021.7	1899.8	1967.2	1964.0
70°	20737.2	6145.4	1466.6	1434.5	1607.8	1851.7	2002.5	1861.3	1739.3	1803.5	1790.7
72.5°	17489.6	4711.0	1296.5	1277.2	1415.2	1633.4	1784.3	1700.8	1572.5	1572.5	1543.6
75°	14055.9	3886.2	1116.8	1107.1	1200.2	1412.0	1582.1	1440.9	1322.1	1315.7	1296.5
77.5°	8061.3	2548.0	937.1	930.6	959.5	1180.9	1229.1	1200.2	1110.3	1068.6	1055.8
80°	3212.3	1325.4	738.1	696.4	725.3	866.5	969.1	921.0	844.0	792.6	763.8
82.5°	1245.1	664.3	519.9	455.7	497.4	625.8	702.8	686.7	635.4	519.9	487.8
85°	507.0	324.1	311.3	263.1	288.8	337.0	404.3	349.8	288.8	205.4	195.8
87.5°	134.8	118.7	115.5	70.6	54.6	16.0	3.2	0.0	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)