

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: P643166

Luminaire Tested: GWS-SA6E-735-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643166  
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-735-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

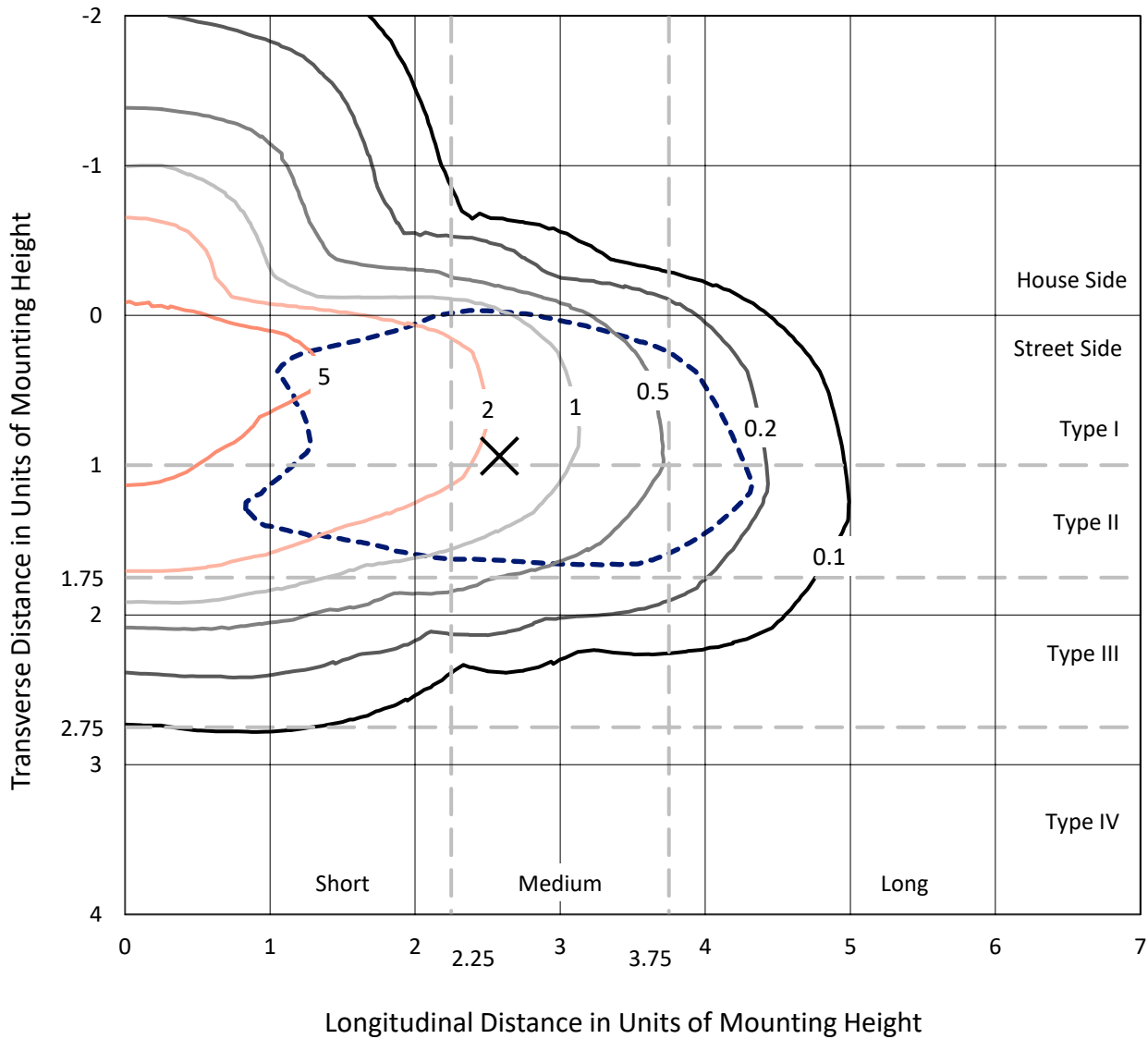
Lumens per Lamp: N/A  
Luminaire Lumens: 43804.4 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): 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

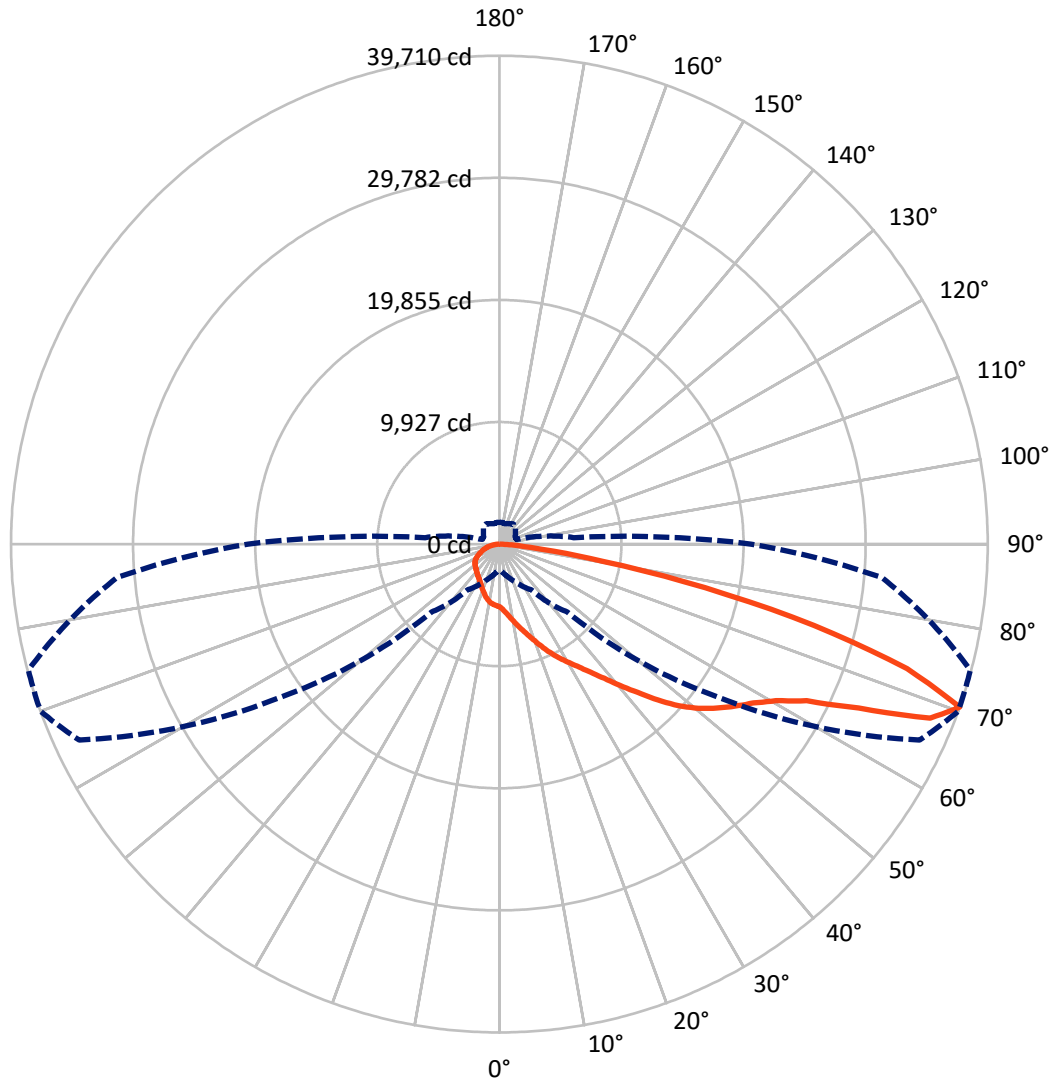
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GWS-SA6E-735-U-T2-W

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA6E-735-U-T2-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7849.8	0.0	7849.8
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	35954.6	0.0	35954.6
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	43804.4	0.0	43804.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.2	1.2
10°-20°	1689.0	3.9
20°-30°	2992.2	6.8
30°-40°	4503.3	10.3
40°-50°	6812.9	15.6
50°-60°	9759.9	22.3
60°-70°	10788.5	24.6
70°-80°	6088.2	13.9
80°-90°	651.2	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°	43804.4	100.0
0°-180°	43804.4	100.0

**Coefficient of Utilization**



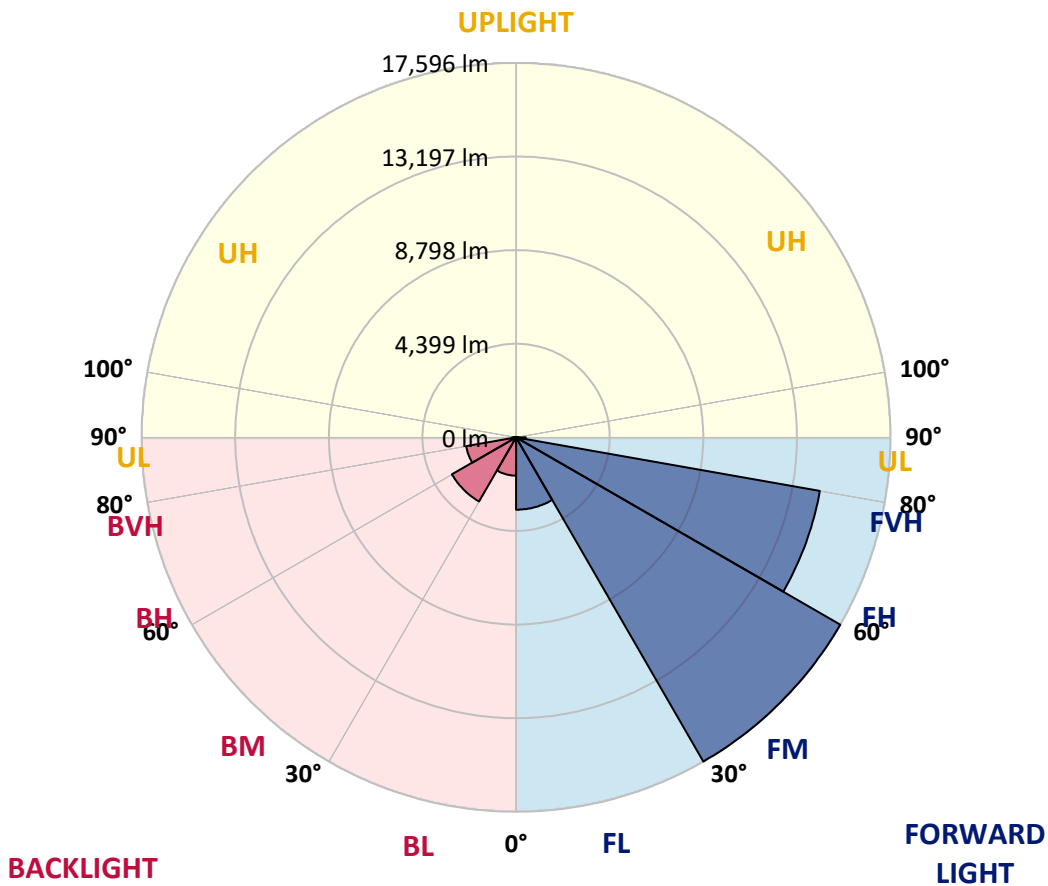
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CATALOG NUMBER: GWS-SA6E-735-U-T2-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3400.6	7.8			
FM (30°-60°)	17596.2	40.2			
FH (60°-80°)	14497.4	33.1			G5
FVH (80°-90°)	460.4	1.1			G3/500
BL (0°-30°)	1799.9	4.1	B3/2500		
BM (30°-60°)	3479.9	7.9	B3/5000		
BH (60°-80°)	2379.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	190.9	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°	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5
2.5°	5659.2	5649.7	5656.1	5649.7	5614.9	5529.5	5459.8	5371.2	5311.1	5276.3	5194.0
5°	6323.9	6314.4	6292.3	6260.6	6197.3	6080.2	5906.1	5713.0	5595.9	5507.3	5333.2
7.5°	6801.8	6801.8	6798.7	6760.7	6716.4	6592.9	6387.2	6134.0	5963.1	5811.2	5526.3
10°	7045.6	7061.4	7083.5	7137.3	7127.8	7061.4	6868.3	6596.1	6380.9	6203.6	5779.5
12.5°	7178.5	7188.0	7226.0	7336.7	7450.7	7466.5	7352.6	7067.7	6833.5	6596.1	6061.2
15°	7349.4	7352.6	7403.2	7536.1	7703.9	7871.6	7843.2	7558.3	7317.8	7055.0	6374.5
17.5°	7482.3	7504.5	7596.3	7751.4	7960.3	8191.3	8330.6	8153.3	7855.8	7555.1	6716.4
20°	7529.8	7545.6	7665.9	7903.3	8188.2	8514.2	8824.3	8776.9	8476.2	8121.7	7102.5
22.5°	7700.7	7700.7	7789.4	7988.8	8324.3	8799.0	9302.3	9425.7	9159.9	8745.2	7517.2
25°	8077.4	8064.7	8105.9	8188.2	8441.4	9026.9	9773.9	10144.2	9846.7	9381.4	7931.8
27.5°	8593.3	8587.0	8583.8	8596.5	8681.9	9226.3	10172.7	10815.2	10517.7	9992.3	8302.1
30°	9153.5	9134.5	9175.7	9137.7	9118.7	9463.7	10511.4	11416.6	11185.5	10596.8	8609.1
32.5°	9916.3	9881.5	9872.0	9748.6	9672.6	9834.0	10783.6	12100.2	11916.7	11248.8	8954.1
35°	10922.8	10891.2	10729.7	10533.5	10308.8	10384.8	11122.2	12768.1	12780.7	12065.4	9406.7
37.5°	11938.8	11945.2	11818.5	11356.4	11125.4	11081.1	11638.1	13581.5	13853.7	13040.3	9992.3
40°	12783.9	12821.9	12821.9	12334.5	11989.5	11948.3	12363.0	14546.9	15088.1	14236.7	10732.9
42.5°	13426.4	13461.2	13572.0	13220.7	12856.7	12999.1	13242.9	15515.4	16487.1	15714.8	11669.8
45°	14132.3	14160.7	14220.9	14018.3	13806.2	14186.1	14239.9	16673.8	18088.6	17373.3	12758.6
47.5°	15069.1	15043.8	15050.1	14901.4	14736.8	15350.8	15338.2	17648.7	19636.4	19190.1	13939.2
50°	16233.9	16281.4	16237.1	15942.7	15749.6	16309.9	16382.6	18728.0	20997.4	20987.9	15129.3
52.5°	17354.3	17373.3	17607.6	17620.2	17224.6	17107.5	17297.4	19816.8	22146.3	22633.8	16271.9
55°	17411.3	17484.1	18186.8	18693.2	19332.5	18392.5	18221.6	20855.0	23257.3	24244.8	17458.8
57.5°	16199.1	16316.2	17509.4	18601.4	20380.2	20598.6	19804.1	22197.0	24368.2	25830.5	18832.5
60°	13610.0	13853.7	15474.3	17145.4	19908.6	22184.3	23042.1	24020.1	25827.4	27451.1	20500.5
62.5°	8691.4	8786.4	11058.9	13856.9	17784.8	22029.2	26568.0	27232.7	28049.3	29562.2	23070.5
65°	4352.0	4655.9	5988.4	8270.5	12825.1	19411.7	28350.0	33116.6	32116.5	33176.8	27235.8
67.5°	2953.1	3051.2	3725.3	4969.2	7520.3	13752.4	27245.3	38073.2	37778.8	37952.9	31676.5
70°	2177.6	2240.9	2772.6	3519.6	4548.3	7808.3	21690.6	37699.7	39709.6	39646.3	31211.2
72.5°	1588.9	1620.5	2022.5	2687.2	3370.9	4038.7	13246.0	30454.8	34664.4	36490.6	27296.0
75°	1155.3	1193.2	1405.3	2009.8	2620.7	2519.4	6539.1	21997.6	26435.1	29948.3	22238.1
77.5°	860.9	908.4	1006.5	1259.7	1835.8	1804.1	2826.5	14284.2	17098.0	19560.4	13508.7
80°	620.4	629.9	686.8	807.1	1164.8	1057.1	1345.2	7447.5	8539.5	9356.1	5295.2
82.5°	376.6	386.1	458.9	496.9	721.6	664.7	699.5	2411.8	3456.3	3668.4	1978.2
85°	110.8	117.1	208.9	227.9	300.7	284.9	281.7	981.2	1171.1	1497.1	778.6
87.5°	0.0	0.0	0.0	0.0	3.2	19.0	34.8	174.1	262.7	364.0	189.9
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°	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5	5108.5
2.5°	5162.3	5089.5	5051.5	4985.1	4937.6	4890.1	4842.6	4798.3	4779.3	4750.8	4757.2
5°	5254.1	5140.2	5026.2	4896.4	4785.7	4693.9	4611.6	4538.8	4507.1	4478.6	4491.3
7.5°	5393.4	5222.4	5004.1	4766.7	4592.6	4466.0	4380.5	4329.9	4314.1	4291.9	4291.9
10°	5570.6	5314.2	4931.3	4592.6	4383.7	4282.4	4244.4	4241.3	4257.1	4260.2	4253.9
12.5°	5766.8	5402.9	4823.6	4386.9	4209.6	4178.0	4206.4	4260.2	4314.1	4342.5	4336.2
15°	5969.4	5459.8	4640.1	4190.6	4083.0	4124.1	4215.9	4323.6	4428.0	4481.8	4478.6
17.5°	6159.3	5472.5	4402.7	4000.7	3972.2	4076.7	4234.9	4402.7	4545.1	4621.1	4624.2
20°	6371.4	5450.3	4159.0	3829.8	3861.4	4032.4	4241.3	4443.8	4611.6	4687.5	4706.5
22.5°	6564.5	5374.4	3921.6	3668.4	3766.5	3978.6	4190.6	4380.5	4529.3	4602.1	4627.4
25°	6738.5	5228.8	3662.0	3532.3	3693.7	3902.6	4064.0	4196.9	4301.4	4345.7	4380.5
27.5°	6833.5	5010.4	3465.8	3424.7	3624.1	3795.0	3883.6	3924.7	3959.6	3946.9	3972.2
30°	6852.5	4738.2	3294.9	3339.2	3519.6	3646.2	3665.2	3624.1	3563.9	3465.8	3488.0
32.5°	6833.5	4424.8	3152.5	3247.4	3402.5	3478.5	3453.1	3345.5	3199.9	3048.0	3057.5
35°	6839.8	4108.3	3035.3	3146.1	3266.4	3307.5	3244.2	3095.5	2940.4	2801.1	2794.8
37.5°	6909.5	3842.5	2937.2	3048.0	3133.5	3139.8	3070.2	2915.1	2835.9	2731.5	2718.8
40°	7102.5	3646.2	2848.6	2949.9	3003.7	3000.5	2921.4	2810.6	2864.4	2829.6	2820.1
42.5°	7419.0	3525.9	2775.8	2845.4	2883.4	2889.8	2826.5	2756.8	2873.9	2829.6	2813.8
45°	7928.6	3519.6	2725.2	2741.0	2801.1	2845.4	2801.1	2722.0	2766.3	2551.1	2509.9
47.5°	8533.2	3627.2	2687.2	2649.2	2753.7	2832.8	2763.1	2636.5	2544.8	2348.5	2320.0
50°	9261.1	3845.6	2652.4	2551.1	2684.0	2785.3	2715.7	2541.6	2402.3	2297.9	2282.0
52.5°	10125.2	4133.6	2608.1	2440.3	2579.6	2760.0	2715.7	2532.1	2348.5	2253.6	2237.7
55°	11030.4	4466.0	2557.4	2307.4	2462.5	2766.3	2737.8	2465.6	2307.4	2256.7	2244.1
57.5°	12154.1	4864.8	2465.6	2152.3	2358.0	2709.3	2649.2	2427.6	2278.9	2237.7	2225.1
60°	13613.2	5456.7	2291.5	1994.0	2237.7	2608.1	2570.1	2364.3	2202.9	2168.1	2158.6
62.5°	15923.7	6460.0	2079.5	1842.1	2095.3	2396.0	2453.0	2244.1	2108.0	2104.8	2101.6
65°	19690.2	7665.9	1829.4	1706.0	1946.5	2221.9	2297.9	2120.6	2009.8	2044.7	2041.5
67.5°	22329.9	7770.4	1623.7	1563.6	1772.5	2032.0	2142.8	1994.0	1873.7	1940.2	1937.1
70°	20453.0	6061.2	1446.5	1414.8	1585.7	1826.3	1975.0	1835.8	1715.5	1778.8	1766.1
72.5°	17249.9	4646.4	1278.7	1259.7	1395.8	1611.0	1759.8	1677.5	1550.9	1550.9	1522.4
75°	13863.2	3833.0	1101.5	1092.0	1183.8	1392.7	1560.4	1421.1	1304.0	1297.7	1278.7
77.5°	7950.8	2513.1	924.2	917.9	946.4	1164.8	1212.2	1183.8	1095.1	1054.0	1041.3
80°	3168.3	1307.2	728.0	686.8	715.3	854.6	955.9	908.4	832.4	781.8	753.3
82.5°	1228.1	655.2	512.7	449.4	490.6	617.2	693.2	677.3	626.7	512.7	481.1
85°	500.1	319.7	307.0	259.5	284.9	332.3	398.8	345.0	284.9	202.6	193.1
87.5°	132.9	117.1	113.9	69.6	53.8	15.8	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)