

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: P643231

Luminaire Tested: GWS-SA6E-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

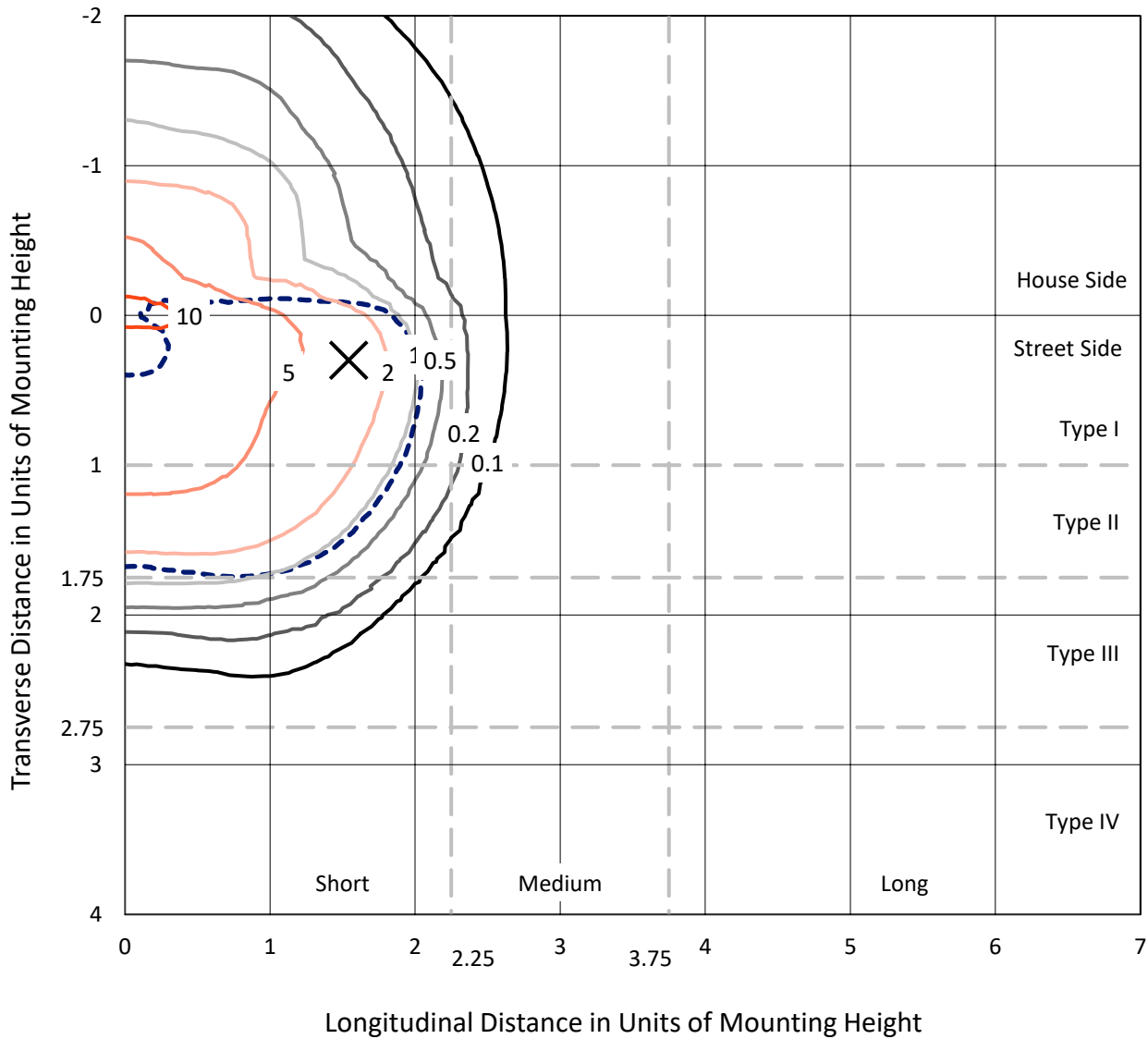
Lumens per Lamp: N/A  
Luminaire Lumens: 39246.6 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P643231  
 CATALOG NUMBER: GWS-SA6E-740-U-T3R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

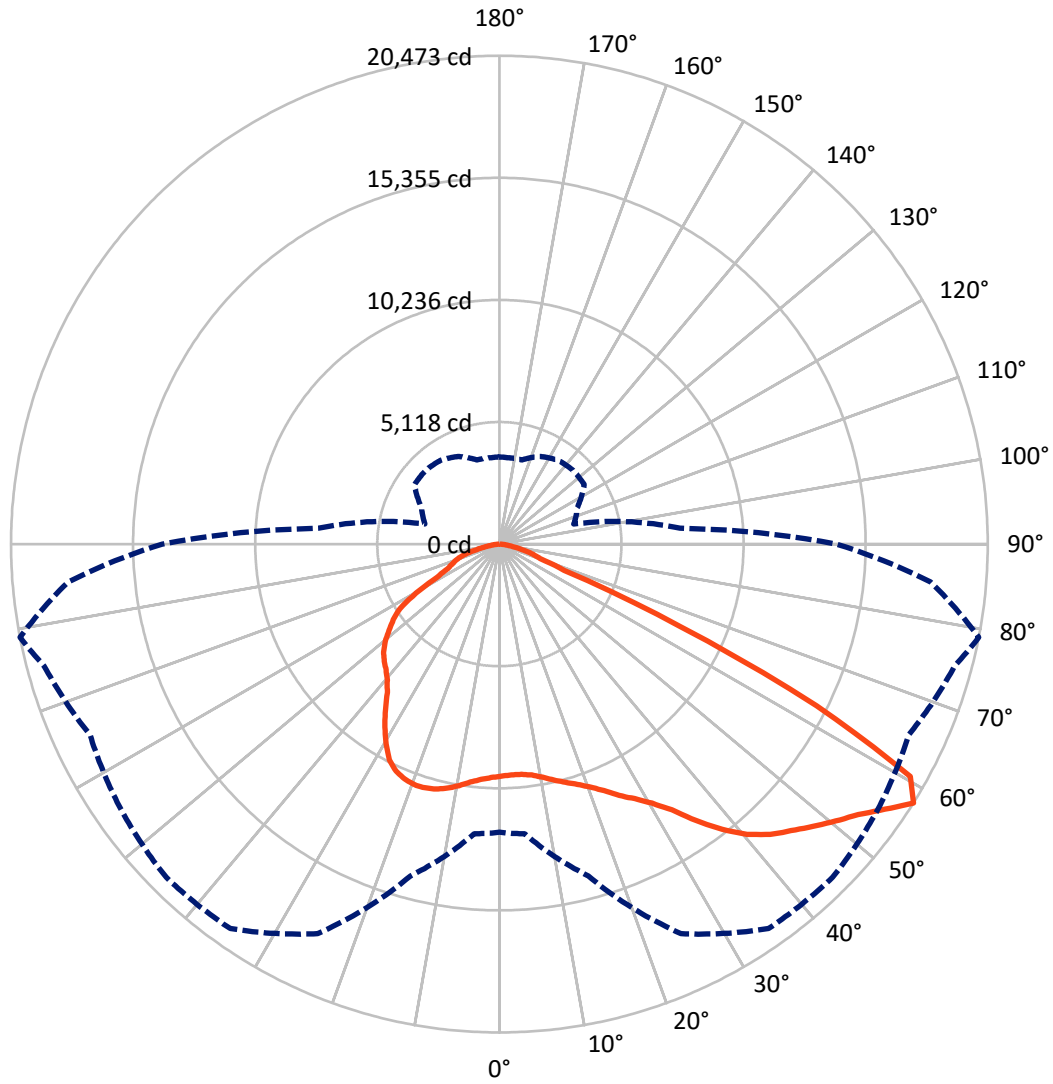
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P643231  
CATALOG NUMBER: GWS-SA6E-740-U-T3R-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P643231

CATALOG NUMBER: GWS-SA6E-740-U-T3R-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11666.2	0.0	11666.2
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	27580.4	0.0	27580.4
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	39246.6	0.0	39246.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	900.7	2.3
10°-20°	2503.1	6.4
20°-30°	4242.9	10.8
30°-40°	6494.3	16.5
40°-50°	8659.6	22.1
50°-60°	10001.1	25.5
60°-70°	5196.9	13.2
70°-80°	1104.7	2.8
80°-90°	143.1	0.4
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°	39246.6	100.0
0°-180°	39246.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643231

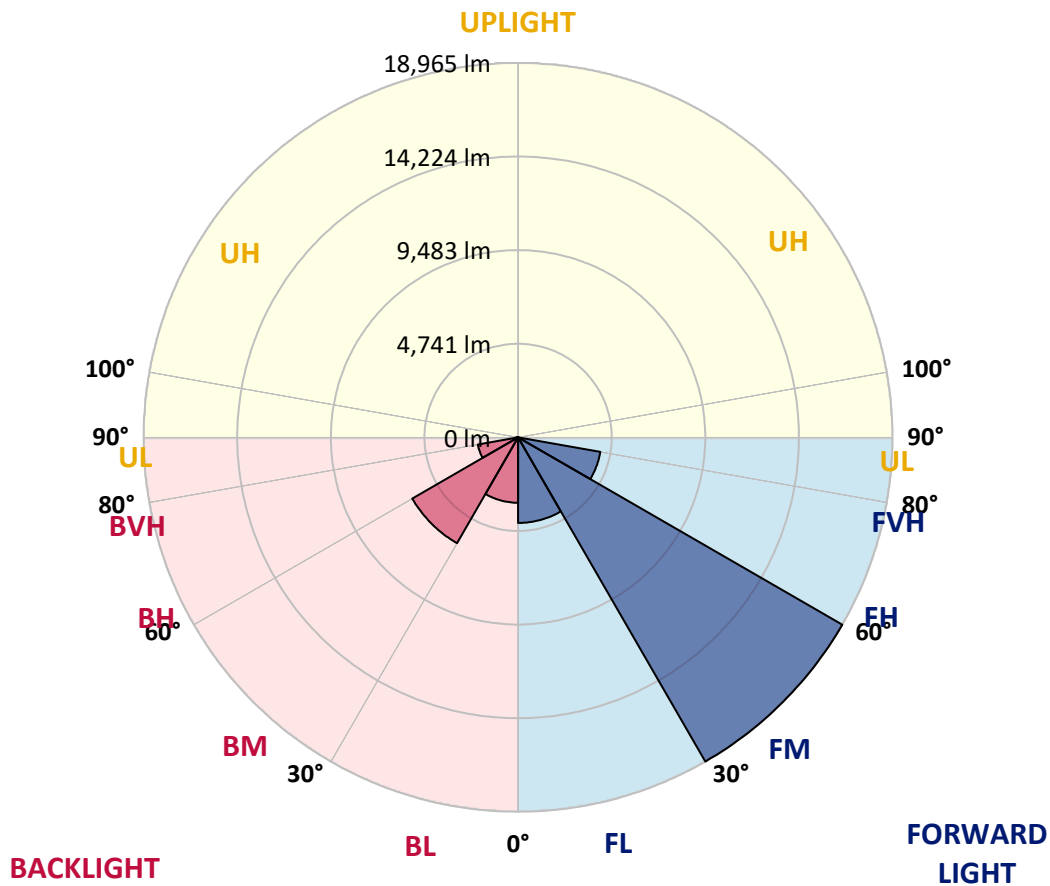
CATALOG NUMBER: GWS-SA6E-740-U-T3R-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4333.7	11.0			
FM (30°-60°)	18965.1	48.3			
FH (60°-80°)	4231.7	10.8			G2/5000
FVH (80°-90°)	49.9	0.1			G1/100
BL (0°-30°)	3313.1	8.4	B4/5000		
BM (30°-60°)	6190.0	15.8	B4/8500		
BH (60°-80°)	2069.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	93.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





REPORT NUMBER: P643231

CATALOG NUMBER: GWS-SA6E-740-U-T3R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2
2.5°	9283.4	9264.1	9270.5	9296.2	9392.5	9463.1	9536.9	9604.3	9668.5	9687.7	9703.8
5°	8952.9	8917.6	8927.2	8968.9	9081.2	9200.0	9331.5	9492.0	9646.0	9697.3	9764.7
7.5°	8718.6	8712.2	8728.2	8792.4	8911.2	9023.5	9193.5	9421.4	9687.7	9774.3	9893.1
10°	8407.4	8394.5	8458.7	8590.3	8786.0	8965.7	9167.9	9437.4	9809.6	9938.0	10120.9
12.5°	8160.3	8153.8	8221.2	8404.1	8654.4	8940.0	9219.2	9520.8	9973.3	10149.8	10374.4
15°	8304.7	8275.8	8279.0	8407.4	8632.0	8968.9	9347.6	9671.7	10137.0	10361.6	10650.4
17.5°	8725.0	8673.7	8635.2	8657.6	8786.0	9135.8	9543.3	9873.8	10326.3	10589.4	10942.4
20°	9305.8	9277.0	9171.1	9100.5	9129.4	9437.4	9851.4	10159.4	10573.4	10868.6	11247.2
22.5°	10085.6	10015.0	9870.6	9758.3	9671.7	9912.3	10294.2	10560.5	10916.7	11224.8	11619.5
25°	11051.5	10948.8	10721.0	10544.5	10358.4	10605.5	10945.6	11147.8	11388.4	11674.0	12049.5
27.5°	12036.6	11950.0	11696.5	11459.0	11228.0	11382.0	11786.3	11901.9	11876.2	12084.8	12405.7
30°	13085.9	12976.8	12736.2	12479.5	12181.0	12280.5	12643.1	12700.9	12428.1	12601.4	12819.6
32.5°	14193.0	14087.1	13878.5	13580.1	13243.2	13281.7	13381.2	13435.7	13175.8	13275.3	13442.1
35°	15319.3	15219.9	15008.1	14712.9	14465.8	14231.5	13981.2	14199.4	14048.6	14241.2	14228.3
37.5°	16349.4	16249.9	16118.4	15890.5	15467.0	15004.9	14427.3	14696.8	14931.1	15174.9	15133.2
40°	17045.7	16978.4	17010.4	16975.1	16429.6	15515.1	14645.5	14940.7	15579.3	15996.4	15974.0
42.5°	17645.8	17578.4	17764.5	17899.3	17257.5	15986.8	14751.4	15033.8	15993.2	16644.6	16612.5
45°	17912.2	17892.9	18201.0	18627.7	18014.8	16487.4	15024.1	15226.3	16307.7	17142.0	17020.1
47.5°	17594.5	17661.9	18268.3	18990.3	18643.8	17081.0	15582.5	15633.8	16718.4	17681.1	17337.8
50°	16962.3	17109.9	17928.2	19000.0	19102.7	17751.7	16355.8	16227.5	17270.4	18255.5	17504.6
52.5°	16041.4	16195.4	17530.3	18926.2	19365.8	18528.3	17385.9	17203.0	17966.7	18829.9	17533.5
55°	13926.7	14135.3	16619.0	18759.3	19622.5	19234.2	18547.5	18175.3	18865.2	19619.3	17819.1
57.5°	12081.6	12190.7	14398.4	18018.0	19673.8	19754.1	19375.4	18932.6	19757.3	20472.9	18140.0
60°	8866.2	8891.9	10878.2	14908.6	18098.3	19452.4	19308.0	18650.2	19333.7	19789.4	16670.3
62.5°	5009.1	5012.3	6597.5	9950.8	13519.1	15855.2	15945.1	15364.3	14789.9	14924.7	11603.4
65°	1880.4	2056.9	3013.2	4890.4	7794.4	9360.4	9732.6	9867.4	8911.2	8317.5	6222.1
67.5°	1257.9	1299.6	1758.5	2515.8	3468.8	4004.7	4479.6	4492.5	3285.9	2929.7	2451.6
70°	959.5	1001.2	1383.0	1800.2	1758.5	1623.7	1755.3	1707.1	1764.9	1813.0	1864.4
72.5°	715.6	757.3	1071.8	1270.7	1055.7	1039.7	1177.7	1309.2	1431.2	1482.5	1562.7
75°	474.9	507.0	722.0	680.3	584.0	689.9	860.0	991.6	1062.2	1123.1	1184.1
77.5°	301.6	324.1	385.1	311.3	324.1	404.3	500.6	619.3	686.7	747.7	779.8
80°	138.0	134.8	131.6	147.6	182.9	237.5	301.6	372.2	423.6	449.2	468.5
82.5°	54.6	61.0	67.4	80.2	99.5	128.4	170.1	218.2	259.9	266.3	282.4
85°	22.5	25.7	28.9	35.3	44.9	57.8	70.6	99.5	125.1	134.8	144.4
87.5°	0.0	0.0	0.0	0.0	3.2	6.4	9.6	16.0	28.9	32.1	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643231

CATALOG NUMBER: GWS-SA6E-740-U-T3R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2	9726.2
2.5°	9790.4	9748.7	9819.3	9867.4	9912.3	9864.2	9848.2	9806.4	9800.0	9800.0	9822.5
5°	9880.2	9851.4	9925.2	9954.0	9950.8	9844.9	9780.8	9697.3	9655.6	9655.6	9662.0
7.5°	10040.7	10024.6	10066.4	10021.4	9918.7	9703.8	9492.0	9315.5	9196.7	9135.8	9155.0
10°	10307.0	10287.8	10252.5	10085.6	9790.4	9344.4	8911.2	8590.3	8397.7	8288.6	8295.0
12.5°	10567.0	10534.9	10409.7	10040.7	9434.2	8725.0	8157.1	7797.7	7585.9	7457.5	7428.6
15°	10852.5	10769.1	10499.6	9809.6	8853.4	7967.7	7374.1	6985.8	6758.0	6681.0	6677.7
17.5°	11125.3	10977.7	10489.9	9398.9	8157.1	7175.1	6578.3	6337.6	6299.1	6334.4	6344.0
20°	11401.3	11163.8	10384.0	8830.9	7329.2	6385.7	6077.7	6177.2	6321.6	6417.8	6440.3
22.5°	11686.9	11317.8	10143.4	8099.3	6456.3	5853.1	5981.4	6199.6	6379.3	6507.7	6520.5
25°	12007.8	11462.2	9784.0	7204.0	5756.8	5705.4	5959.0	6190.0	6382.5	6530.1	6555.8
27.5°	12190.7	11465.4	9280.2	6283.1	5435.9	5647.7	5904.4	6122.6	6315.1	6475.6	6504.5
30°	12370.4	11378.8	8481.2	5535.4	5342.8	5580.3	5811.3	6013.5	6196.4	6353.6	6388.9
32.5°	12623.9	11298.6	7560.2	5105.4	5288.3	5516.1	5705.4	5885.1	6026.3	6096.9	6116.2
35°	12938.3	11195.9	6581.5	4919.3	5253.0	5464.8	5631.6	5727.9	5545.0	5506.5	5548.2
37.5°	13378.0	11099.6	5606.0	4839.0	5230.5	5445.5	5593.1	5346.0	5121.4	5031.6	5063.7
40°	13852.9	11045.1	4944.9	4774.9	5240.2	5464.8	5432.7	5066.9	4742.8	4553.4	4547.0
42.5°	14257.2	10961.6	4521.4	4733.1	5265.8	5538.6	5214.5	4819.8	4338.5	4226.1	4229.3
45°	14530.0	10749.9	4296.7	4688.2	5288.3	5554.6	5111.8	4479.6	4136.3	4065.7	4062.5
47.5°	14642.3	10364.8	4152.3	4617.6	5285.1	5423.1	4903.2	4338.5	3995.1	3975.8	3988.7
50°	14568.5	9732.6	4004.7	4479.6	5208.1	5285.1	4662.6	4213.3	3898.8	4004.7	4081.7
52.5°	14295.7	8914.4	3828.2	4290.3	5070.1	5127.8	4540.6	4136.3	3828.2	3969.4	4030.4
55°	14225.1	8250.1	3603.6	4043.2	4864.7	4848.7	4412.3	4097.8	3780.1	3725.5	3735.2
57.5°	14132.1	7601.9	3231.4	3600.4	4344.9	4370.5	4290.3	4052.9	3655.0	3638.9	3655.0
60°	12277.3	5827.4	2881.6	3106.2	3568.3	3706.3	4152.3	3969.4	3452.8	3385.4	3382.2
62.5°	8019.1	3529.8	2563.9	2708.3	2907.3	3067.7	3786.5	3728.8	3231.4	3189.7	3218.5
65°	4312.8	2515.8	2332.9	2419.5	2528.6	2650.6	3138.3	3321.2	2920.1	2772.5	2775.7
67.5°	2204.5	2140.3	2159.6	2220.6	2304.0	2365.0	2531.8	2692.3	2490.1	2365.0	2361.8
70°	1886.8	1938.2	1967.1	2002.4	2056.9	2047.3	2063.3	2092.2	2076.2	2015.2	2012.0
72.5°	1607.7	1687.9	1694.3	1700.7	1720.0	1675.1	1646.2	1598.0	1601.2	1610.9	1614.1
75°	1222.6	1299.6	1318.9	1309.2	1328.5	1270.7	1232.2	1184.1	1126.3	1116.7	1123.1
77.5°	795.8	856.8	885.7	879.2	888.9	843.9	824.7	773.3	706.0	680.3	680.3
80°	481.3	516.6	539.1	545.5	555.1	523.1	491.0	446.0	417.2	388.3	388.3
82.5°	292.0	314.5	330.5	330.5	340.1	304.8	279.2	247.1	234.3	208.6	208.6
85°	147.6	163.7	170.1	166.9	160.4	131.6	121.9	105.9	99.5	86.6	86.6
87.5°	35.3	44.9	44.9	32.1	32.1	16.0	9.6	3.2	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)