

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: P641351

Luminaire Tested: GWS-SA5F-760-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641351  
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-SA5F-760-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

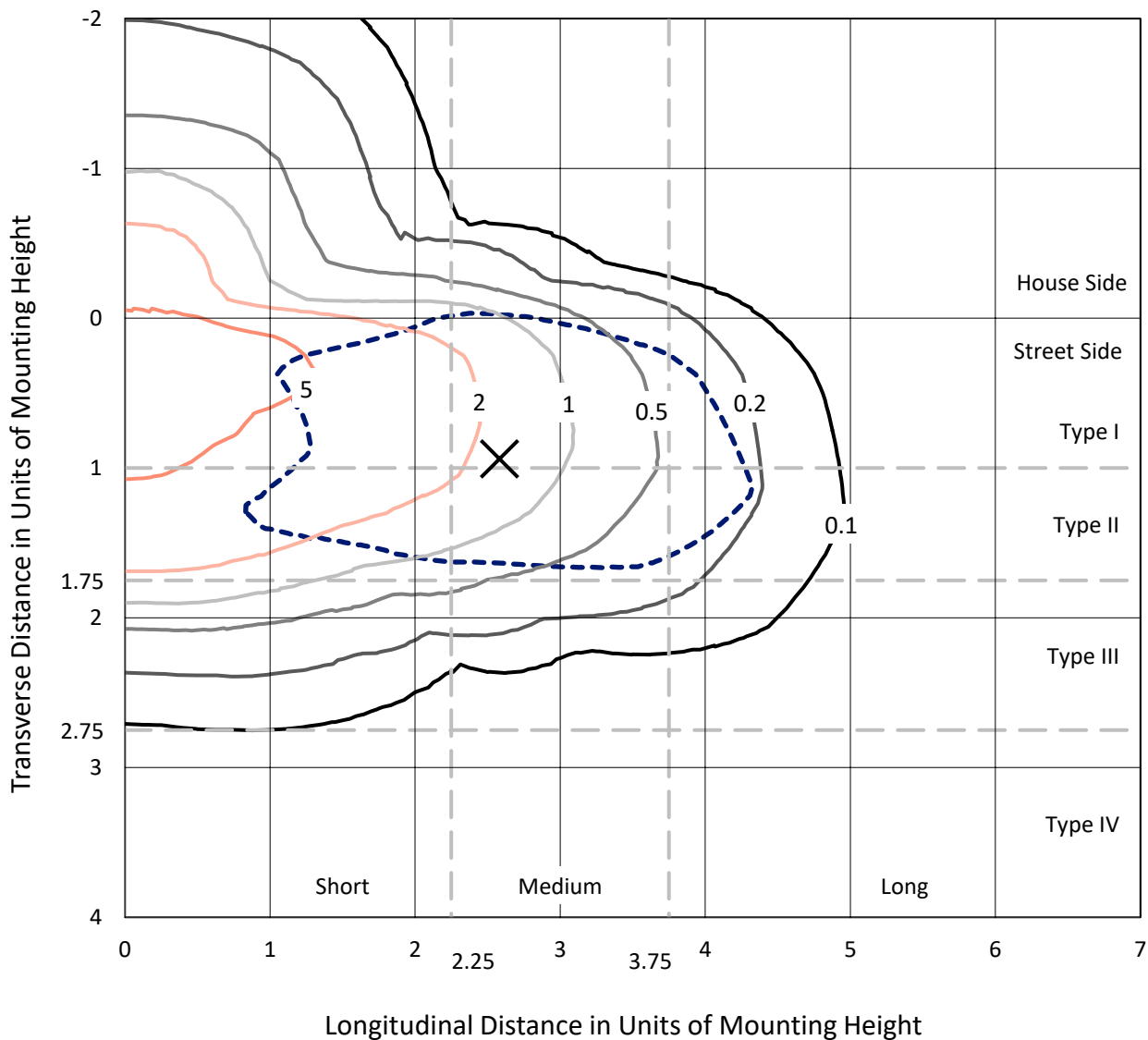
Lumens per Lamp: N/A  
Luminaire Lumens: 41779.1 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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: P641351  
 CATALOG NUMBER: GWS-SA5F-760-U-T2-W

### Iso-Footcandle Lines of Horizontal Illumination

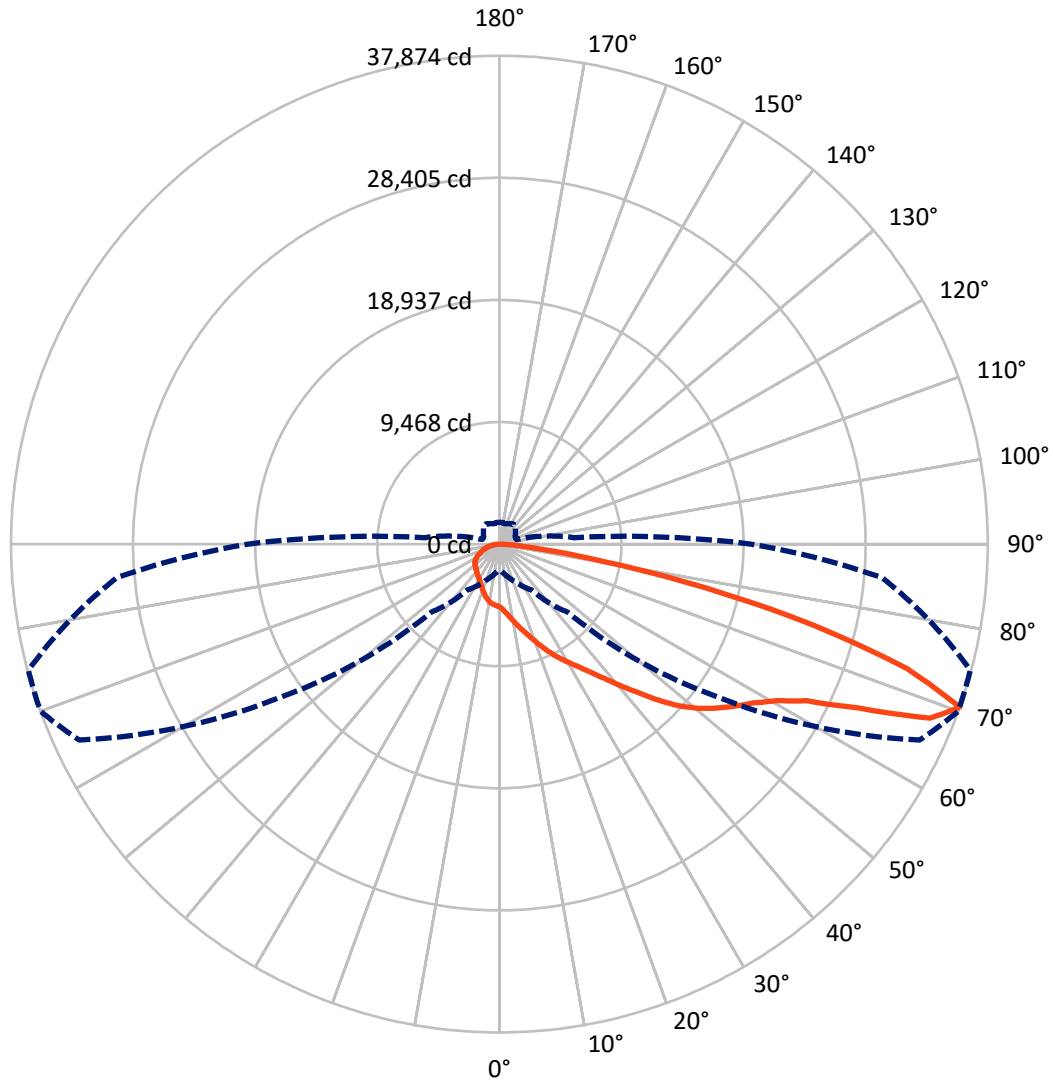
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P641351  
CATALOG NUMBER: GWS-SA5F-760-U-T2-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P641351

CATALOG NUMBER: GWS-SA5F-760-U-T2-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7486.9	0.0	7486.9
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	34292.2	0.0	34292.2
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	41779.1	0.0	41779.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	495.2	1.2
10°-20°	1610.9	3.9
20°-30°	2853.8	6.8
30°-40°	4295.1	10.3
40°-50°	6497.9	15.6
50°-60°	9308.6	22.3
60°-70°	10289.7	24.6
70°-80°	5806.7	13.9
80°-90°	621.1	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°	41779.1	100.0
0°-180°	41779.1	100.0

**Coefficient of Utilization**



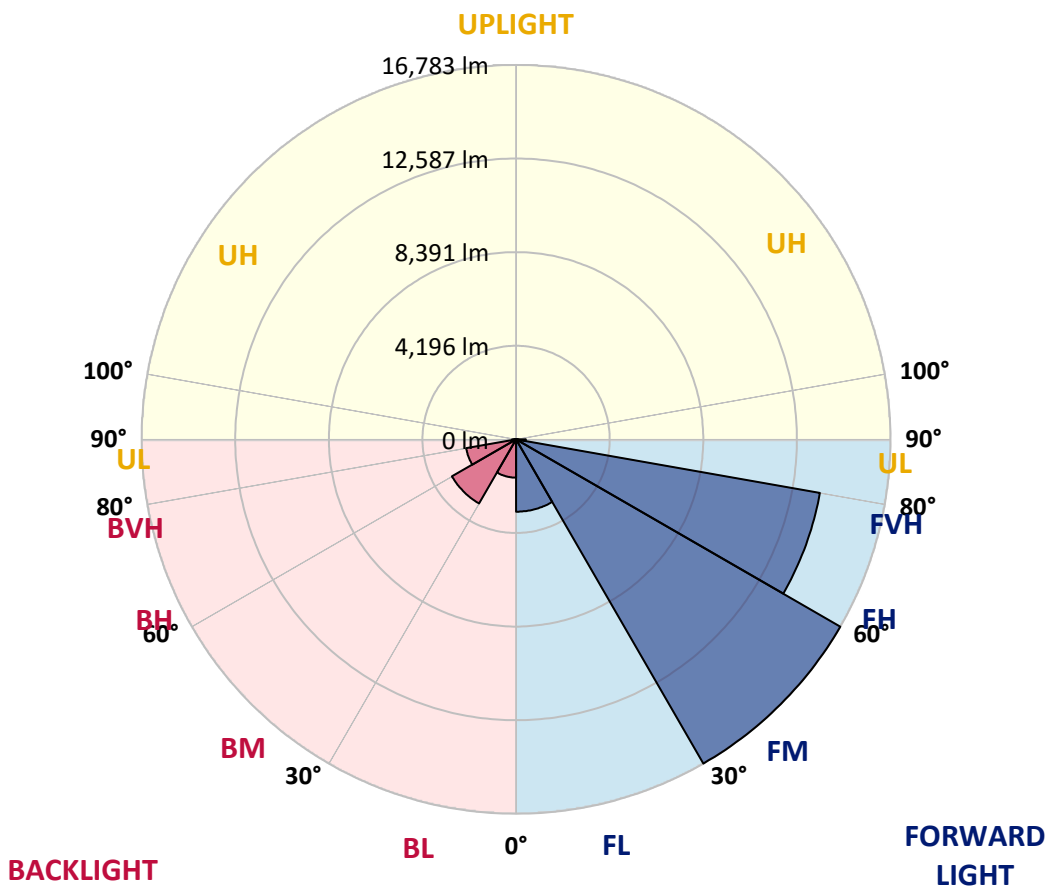
REPORT NUMBER: P641351

CATALOG NUMBER: GWS-SA5F-760-U-T2-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.3	7.8			
FM (30°-60°)	16782.6	40.2			
FH (60°-80°)	13827.1	33.1			G5
FVH (80°-90°)	439.1	1.1			G3/500
BL (0°-30°)	1716.6	4.1	B3/2500		
BM (30°-60°)	3319.0	7.9	B3/5000		
BH (60°-80°)	2269.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	182.0	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





REPORT NUMBER: P641351  
 CATALOG NUMBER: GWS-SA5F-760-U-T2-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3
2.5°	5397.6	5388.5	5394.6	5388.5	5355.3	5273.8	5207.4	5122.9	5065.5	5032.3	4953.8
5°	6031.5	6022.5	6001.3	5971.1	5910.8	5799.1	5633.0	5448.9	5337.2	5252.7	5086.6
7.5°	6487.4	6487.4	6484.3	6448.1	6405.8	6288.1	6091.9	5850.4	5687.4	5542.5	5270.8
10°	6719.8	6734.9	6756.0	6807.3	6798.3	6734.9	6550.7	6291.1	6085.9	5916.8	5512.3
12.5°	6846.6	6855.6	6891.9	6997.5	7106.2	7121.3	7012.6	6740.9	6517.5	6291.1	5781.0
15°	7009.6	7012.6	7060.9	7187.7	7347.7	7507.7	7480.5	7208.8	6979.4	6728.9	6079.8
17.5°	7136.4	7157.5	7245.1	7393.0	7592.2	7812.6	7945.4	7776.4	7492.6	7205.8	6405.8
20°	7181.7	7196.8	7311.5	7537.9	7809.6	8120.5	8416.4	8371.1	8084.3	7746.2	6774.1
22.5°	7344.7	7344.7	7429.2	7619.4	7939.4	8392.2	8872.2	8989.9	8736.3	8340.9	7169.6
25°	7703.9	7691.8	7731.1	7809.6	8051.1	8609.6	9322.0	9675.2	9391.4	8947.7	7565.1
27.5°	8196.0	8189.9	8186.9	8199.0	8280.5	8799.7	9702.4	10315.2	10031.4	9530.3	7918.3
30°	8730.3	8712.2	8751.4	8715.2	8697.1	9026.1	10025.4	10888.7	10668.4	10106.9	8211.1
32.5°	9457.8	9424.6	9415.6	9297.8	9225.4	9379.3	10285.0	11540.8	11365.7	10728.7	8540.1
35°	10417.8	10387.6	10233.7	10046.5	9832.2	9904.6	10608.0	12177.8	12189.8	11507.6	8971.8
37.5°	11386.8	11392.9	11272.1	10831.4	10611.0	10568.7	11100.0	12953.6	13213.2	12437.4	9530.3
40°	12192.8	12229.1	12229.1	11764.2	11435.1	11395.9	11791.3	13874.3	14390.5	13578.5	10236.7
42.5°	12805.7	12838.9	12944.5	12609.4	12262.3	12398.1	12630.6	14798.1	15724.8	14988.2	11130.2
45°	13478.8	13506.0	13563.4	13370.2	13167.9	13530.2	13581.5	15902.9	17252.3	16570.1	12168.7
47.5°	14372.4	14348.3	14354.3	14212.4	14055.4	14641.1	14629.0	16832.7	18728.5	18302.9	13294.7
50°	15483.3	15528.6	15486.3	15205.6	15021.4	15555.8	15625.2	17862.1	20026.6	20017.5	14429.8
52.5°	16552.0	16570.1	16793.5	16805.5	16428.2	16316.5	16497.6	18900.6	21122.4	21587.3	15519.5
55°	16606.3	16675.7	17345.9	17828.9	18438.7	17542.1	17379.1	19890.7	22182.0	23123.8	16651.6
57.5°	15450.1	15561.8	16699.9	17741.4	19437.9	19646.2	18888.5	21170.7	23241.6	24636.2	17961.7
60°	12980.7	13213.2	14758.8	16352.7	18988.1	21158.6	21976.7	22909.5	24633.2	26181.9	19552.6
62.5°	8289.6	8380.1	10547.6	13216.2	16962.5	21010.7	25339.6	25973.6	26752.4	28195.4	22003.9
65°	4150.8	4440.6	5711.5	7888.1	12232.1	18514.2	27039.2	31585.5	30631.5	31642.8	25976.6
67.5°	2816.5	2910.1	3553.1	4739.5	7172.6	13116.6	25985.6	36312.9	36032.1	36198.2	30211.9
70°	2076.9	2137.3	2644.4	3356.9	4338.0	7447.3	20687.7	35956.7	37873.6	37813.2	29768.2
72.5°	1515.4	1545.6	1929.0	2562.9	3215.0	3852.0	12633.6	29046.7	33061.7	34803.5	26033.9
75°	1101.9	1138.1	1340.3	1916.9	2499.5	2402.9	6236.8	20980.5	25212.8	28563.7	21209.9
77.5°	821.1	866.4	960.0	1201.5	1750.9	1720.7	2695.8	13623.7	16307.4	18656.1	12884.1
80°	591.7	600.7	655.1	769.8	1110.9	1008.3	1283.0	7103.2	8144.7	8923.5	5050.4
82.5°	359.2	368.3	437.7	473.9	688.3	633.9	667.2	2300.3	3296.5	3498.8	1886.7
85°	105.7	111.7	199.2	217.4	286.8	271.7	268.7	935.8	1116.9	1427.9	742.6
87.5°	0.0	0.0	0.0	0.0	3.0	18.1	33.2	166.0	250.6	347.2	181.1
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: P641351  
 CATALOG NUMBER: GWS-SA5F-760-U-T2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3
2.5°	4923.6	4854.2	4818.0	4754.6	4709.3	4664.0	4618.7	4576.5	4558.4	4531.2	4537.2
5°	5011.2	4902.5	4793.8	4670.1	4564.4	4476.8	4398.4	4328.9	4298.7	4271.6	4283.6
7.5°	5144.0	4981.0	4772.7	4546.3	4380.2	4259.5	4178.0	4129.7	4114.6	4093.5	4093.5
10°	5313.0	5068.5	4703.3	4380.2	4181.0	4084.4	4048.2	4045.2	4060.3	4063.3	4057.2
12.5°	5500.2	5153.1	4600.6	4184.0	4015.0	3984.8	4012.0	4063.3	4114.6	4141.8	4135.7
15°	5693.4	5207.4	4425.5	3996.9	3894.2	3933.5	4021.0	4123.7	4223.3	4274.6	4271.6
17.5°	5874.5	5219.5	4199.1	3815.7	3788.6	3888.2	4039.1	4199.1	4335.0	4407.4	4410.4
20°	6076.8	5198.3	3966.7	3652.7	3682.9	3845.9	4045.2	4238.4	4398.4	4470.8	4488.9
22.5°	6260.9	5125.9	3740.3	3498.8	3592.3	3794.6	3996.9	4178.0	4319.9	4389.3	4413.5
25°	6427.0	4987.0	3492.7	3369.0	3522.9	3722.2	3876.1	4002.9	4102.5	4144.8	4178.0
27.5°	6517.5	4778.7	3305.6	3266.3	3456.5	3619.5	3704.0	3743.3	3776.5	3764.4	3788.6
30°	6535.7	4519.1	3142.5	3184.8	3356.9	3477.6	3495.7	3456.5	3399.1	3305.6	3326.7
32.5°	6517.5	4220.3	3006.7	3097.3	3245.2	3317.6	3293.5	3190.8	3052.0	2907.1	2916.1
35°	6523.6	3918.4	2895.0	3000.7	3115.4	3154.6	3094.2	2952.4	2804.4	2671.6	2665.6
37.5°	6590.0	3664.8	2801.4	2907.1	2988.6	2994.6	2928.2	2780.3	2704.8	2605.2	2593.1
40°	6774.1	3477.6	2716.9	2813.5	2864.8	2861.8	2786.3	2680.7	2732.0	2698.8	2689.7
42.5°	7076.0	3362.9	2647.5	2713.9	2750.1	2756.1	2695.8	2629.4	2741.1	2698.8	2683.7
45°	7562.0	3356.9	2599.2	2614.3	2671.6	2713.9	2671.6	2596.1	2638.4	2433.1	2393.9
47.5°	8138.6	3459.5	2562.9	2526.7	2626.3	2701.8	2635.4	2514.6	2427.1	2239.9	2212.8
50°	8832.9	3667.8	2529.7	2433.1	2559.9	2656.5	2590.1	2424.1	2291.3	2191.6	2176.5
52.5°	9657.1	3942.5	2487.5	2327.5	2460.3	2632.4	2590.1	2415.0	2239.9	2149.4	2134.3
55°	10520.4	4259.5	2439.2	2200.7	2348.6	2638.4	2611.2	2351.6	2200.7	2152.4	2140.3
57.5°	11592.1	4639.9	2351.6	2052.8	2249.0	2584.1	2526.7	2315.4	2173.5	2134.3	2122.2
60°	12983.8	5204.4	2185.6	1901.8	2134.3	2487.5	2451.2	2255.0	2101.1	2067.9	2058.8
62.5°	15187.5	6161.3	1983.3	1756.9	1998.4	2285.2	2339.6	2140.3	2010.5	2007.5	2004.5
65°	18779.8	7311.5	1744.9	1627.1	1856.5	2119.2	2191.6	2022.6	1916.9	1950.1	1947.1
67.5°	21297.5	7411.1	1548.6	1491.3	1690.5	1938.1	2043.7	1901.8	1787.1	1850.5	1847.5
70°	19507.3	5781.0	1379.6	1349.4	1512.4	1741.8	1883.7	1750.9	1636.2	1696.6	1684.5
72.5°	16452.3	4431.6	1219.6	1201.5	1331.3	1536.6	1678.4	1600.0	1479.2	1479.2	1452.0
75°	13222.2	3655.7	1050.5	1041.5	1129.0	1328.3	1488.3	1355.4	1243.7	1237.7	1219.6
77.5°	7583.2	2396.9	881.5	875.4	902.6	1110.9	1156.2	1129.0	1044.5	1005.3	993.2
80°	3021.8	1246.8	694.3	655.1	682.2	815.1	911.7	866.4	793.9	745.6	718.5
82.5°	1171.3	624.9	489.0	428.7	467.9	588.7	661.1	646.0	597.7	489.0	458.9
85°	477.0	304.9	292.8	247.5	271.7	317.0	380.4	329.0	271.7	193.2	184.1
87.5°	126.8	111.7	108.7	66.4	51.3	15.1	3.0	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)