

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: P641349

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
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-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

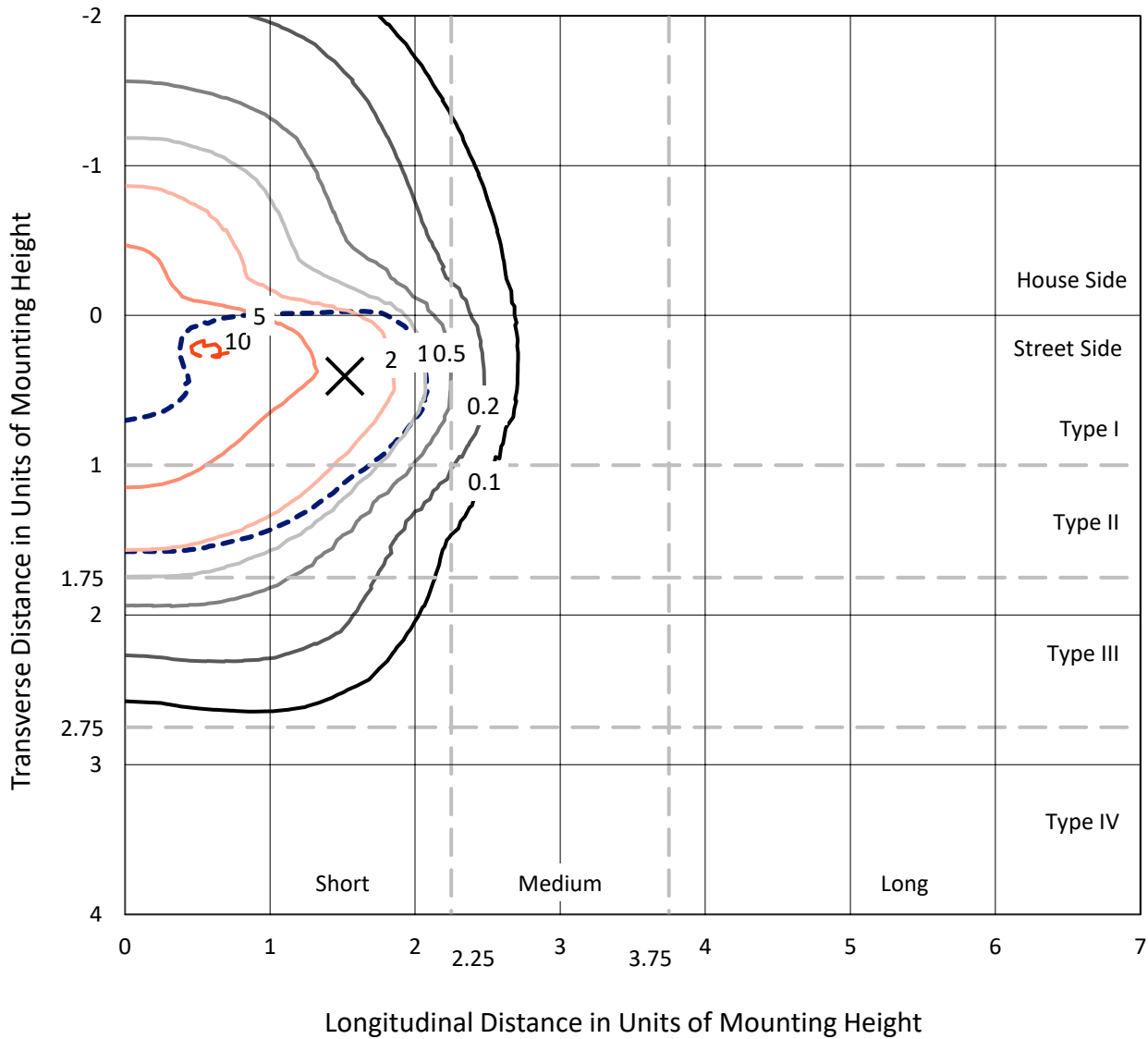
Lumens per Lamp: N/A  
Luminaire Lumens: 35107.8 lumens  
Efficiency: N/A  
Efficacy: 113.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

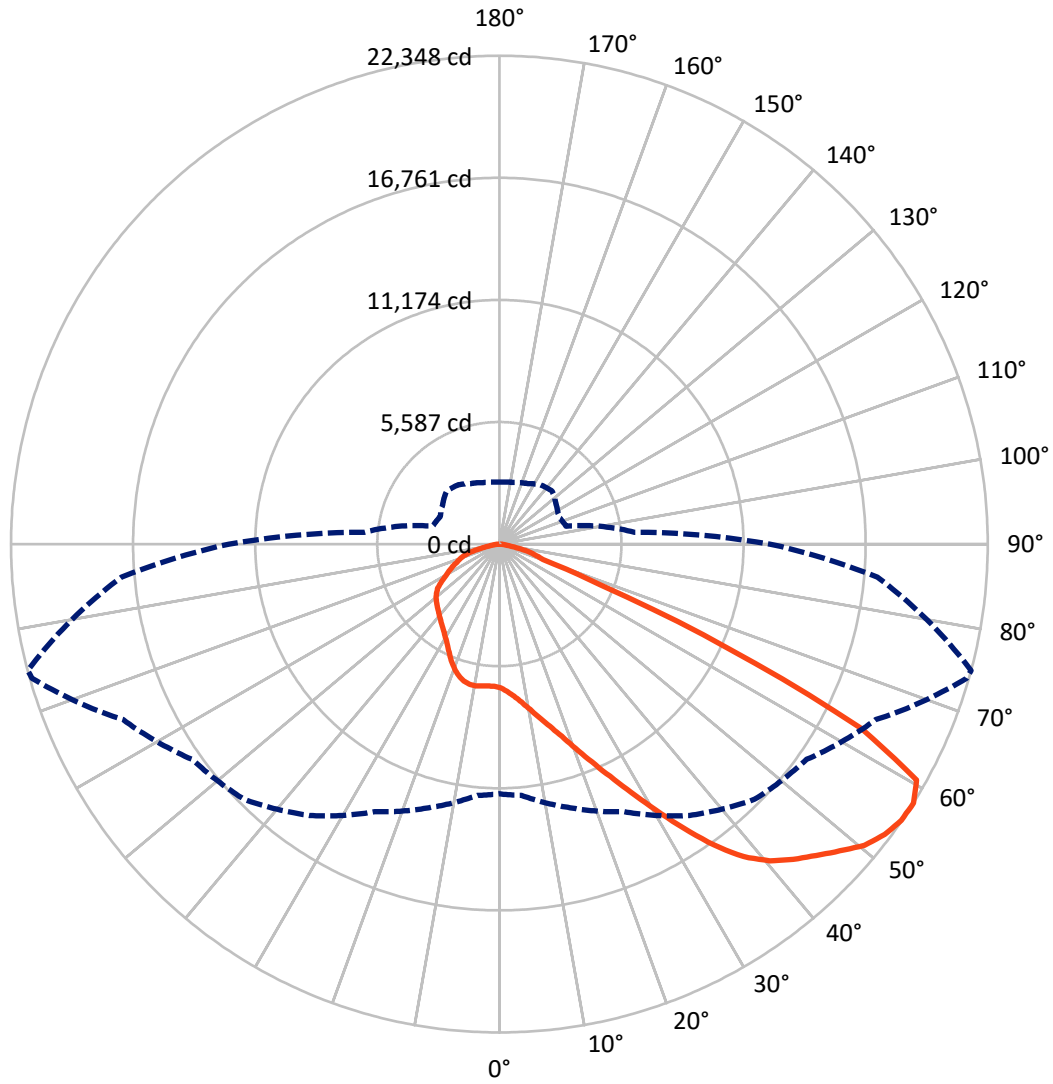
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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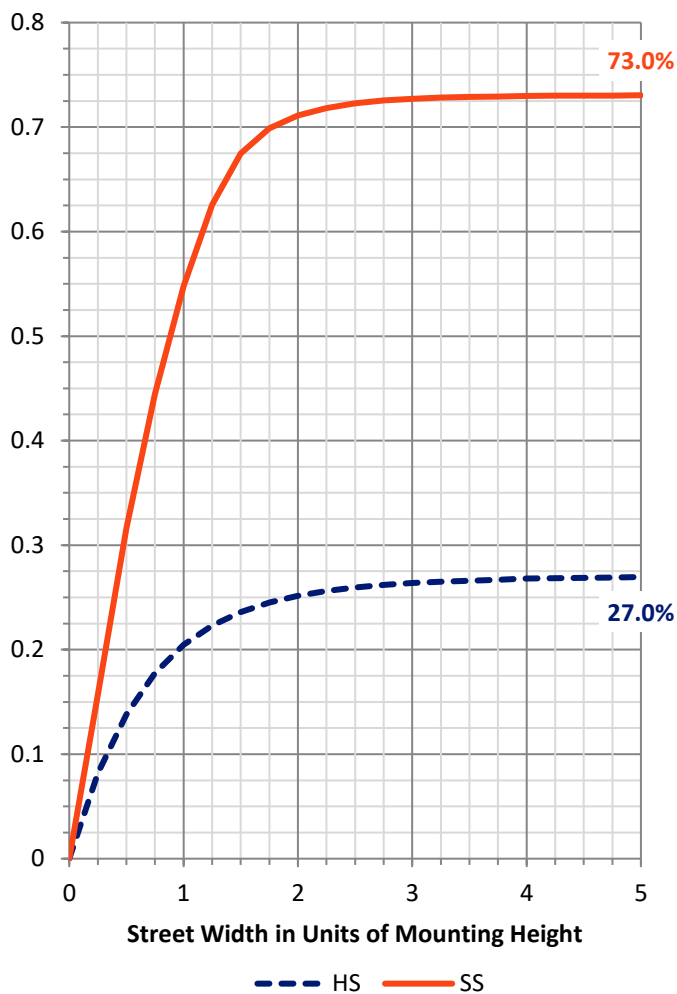
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9497.4	0.0	9497.4
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	25610.4	0.0	25610.4
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	35107.8	0.0	35107.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	657.9	1.9
10°-20°	2094.8	6.0
20°-30°	3715.0	10.6
30°-40°	5687.0	16.2
40°-50°	7918.7	22.6
50°-60°	9073.3	25.8
60°-70°	4662.0	13.3
70°-80°	1173.7	3.3
80°-90°	125.5	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°	35107.8	100.0
0°-180°	35107.8	100.0

**Coefficient of Utilization**



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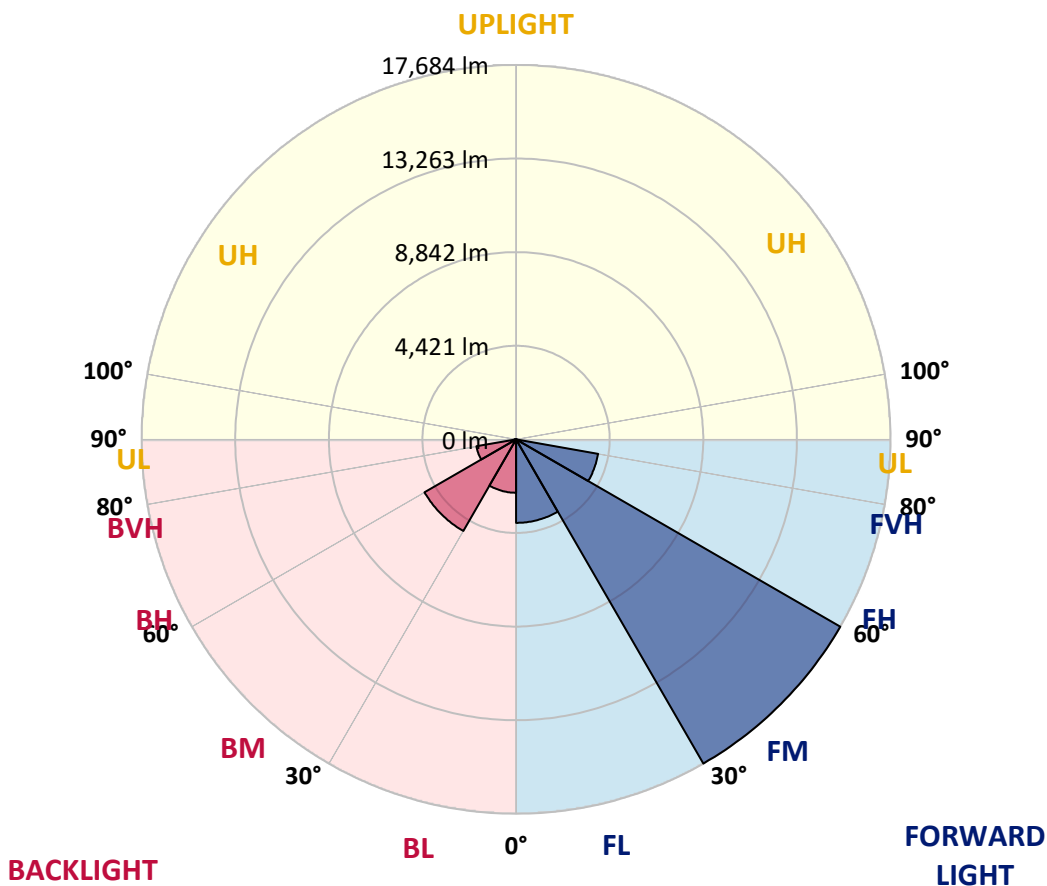
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3944.6	11.2			
FM (30°-60°)	17684.2	50.4			
FH (60°-80°)	3935.2	11.2			G2/5000
FVH (80°-90°)	46.4	0.1			G1/100
BL (0°-30°)	2523.1	7.2	B4/5000		
BM (30°-60°)	4994.8	14.2	B3/5000		
BH (60°-80°)	1900.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	79.0	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8
2.5°	7063.9	7082.0	7063.9	7094.1	7033.7	7006.5	6940.1	6840.5	6762.0	6749.9	6662.4
5°	7613.3	7652.5	7628.4	7616.3	7534.8	7474.4	7374.8	7175.6	7012.6	6988.4	6816.3
7.5°	7966.5	7993.7	7993.7	8002.7	7972.5	7903.1	7797.4	7562.0	7332.6	7296.3	7036.7
10°	8084.2	8105.4	8144.6	8220.1	8280.4	8301.6	8232.1	8005.7	7725.0	7688.8	7326.5
12.5°	8111.4	8135.5	8195.9	8334.8	8500.8	8651.8	8663.8	8497.8	8183.8	8144.6	7661.6
15°	8162.7	8186.9	8268.4	8440.4	8685.0	8974.8	9152.9	9038.2	8691.0	8648.7	8042.0
17.5°	8156.7	8183.8	8304.6	8534.0	8863.1	9282.7	9626.8	9675.1	9315.9	9243.4	8473.6
20°	8141.6	8165.7	8295.5	8576.3	8983.8	9560.4	10182.3	10432.8	10046.4	9980.0	8977.8
22.5°	8262.3	8289.5	8389.1	8621.6	9047.2	9774.7	10695.4	11299.2	10912.8	10819.2	9557.4
25°	8534.0	8573.3	8633.6	8793.6	9161.9	9964.9	11220.7	12280.3	11884.8	11773.1	10188.3
27.5°	8953.6	9001.9	9086.5	9161.9	9418.5	10206.4	11743.0	13379.1	12983.7	12865.9	10855.4
30°	9466.8	9530.2	9638.9	9690.2	9865.3	10562.6	12310.5	14511.2	14281.7	14118.7	11607.1
32.5°	10176.2	10263.8	10366.4	10381.5	10487.2	11103.0	12872.0	15634.1	15631.1	15516.4	12461.4
35°	11100.0	11193.5	11214.7	11235.8	11287.1	11845.6	13551.2	16657.5	17052.9	16920.1	13391.2
37.5°	12108.2	12244.1	12277.3	12183.7	12256.1	12739.1	14314.9	17478.6	18290.6	18148.8	14290.8
40°	13185.9	13240.3	13330.8	13182.9	13273.5	13762.5	15063.6	18003.9	19214.4	19063.4	15000.2
42.5°	13958.7	14058.3	14194.2	14139.8	14191.2	14637.9	15588.9	18257.4	19872.5	19721.5	15510.4
45°	14797.9	14828.1	14915.7	14903.6	14933.8	15350.4	15966.2	18369.1	20461.1	20325.3	15945.1
47.5°	15528.5	15573.8	15631.1	15564.7	15498.3	15770.0	16274.1	18465.7	21140.3	20977.3	16400.9
50°	16231.8	16271.1	16340.5	16147.3	15899.8	15969.2	16425.0	18598.5	21777.3	21662.6	16760.1
52.5°	16361.7	16403.9	16729.9	16769.2	16452.2	16207.7	16690.7	18891.4	22151.6	22079.2	16889.9
55°	14728.5	14804.0	15453.0	16198.6	16980.5	16902.0	17116.3	19045.3	22299.5	22317.7	17122.4
57.5°	11432.0	11540.7	12488.6	13511.9	15157.2	16518.6	17170.7	19006.1	22248.2	22347.8	17360.9
60°	7498.6	7562.0	8685.0	9832.1	11537.7	13421.4	15368.5	18299.7	21792.4	21934.3	17300.5
62.5°	4528.1	4600.6	5503.2	6372.6	7377.8	8636.7	10423.8	14707.4	18266.5	18583.5	13856.1
65°	3160.6	3257.2	4048.2	4763.6	5110.8	4851.1	5279.8	8214.0	11380.7	11513.5	8467.6
67.5°	2291.2	2357.6	3006.7	3858.0	4241.4	3426.3	2611.2	3637.6	4956.8	5005.1	3492.7
70°	1500.3	1575.8	2164.4	2937.2	3462.5	2777.3	1953.1	1968.2	2086.0	2110.1	2028.6
72.5°	824.1	869.4	1337.3	1950.1	2046.7	1660.3	1524.5	1636.2	1717.7	1717.7	1738.8
75°	425.6	464.9	546.4	643.0	775.8	908.6	1098.8	1264.9	1352.4	1358.4	1349.4
77.5°	217.4	232.4	292.8	317.0	347.2	404.5	525.3	673.2	751.7	781.9	775.8
80°	102.6	108.7	123.8	144.9	178.1	226.4	283.8	338.1	386.4	392.4	425.6
82.5°	54.3	60.4	66.4	78.5	96.6	120.8	166.0	199.2	229.4	235.5	262.6
85°	21.1	24.2	27.2	30.2	42.3	51.3	69.4	93.6	114.7	114.7	135.8
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	12.1	15.1	21.1	21.1	36.2
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°	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8	6574.8
2.5°	6641.3	6553.7	6514.5	6451.1	6399.8	6342.4	6297.1	6263.9	6242.8	6230.7	6218.6
5°	6749.9	6617.1	6511.5	6384.7	6297.1	6212.6	6143.2	6094.9	6070.7	6052.6	6040.5
7.5°	6919.0	6740.9	6541.6	6345.4	6191.5	6055.6	5968.1	5916.8	5883.6	5871.5	5862.4
10°	7151.4	6903.9	6574.8	6263.9	6034.5	5886.6	5826.2	5802.0	5805.1	5799.0	5796.0
12.5°	7414.1	7076.0	6565.8	6119.0	5865.4	5777.9	5780.9	5820.2	5865.4	5877.5	5880.5
15°	7697.8	7245.0	6478.2	5931.9	5732.6	5741.7	5820.2	5913.7	5998.3	6031.5	6037.5
17.5°	8005.7	7386.9	6318.3	5726.6	5623.9	5720.5	5865.4	6019.4	6143.2	6197.5	6212.6
20°	8349.9	7507.6	6091.8	5524.3	5521.3	5681.3	5892.6	6094.9	6251.8	6324.3	6336.4
22.5°	8715.1	7583.1	5814.1	5337.2	5415.6	5630.0	5871.5	6082.8	6248.8	6321.3	6336.4
25°	9083.4	7607.3	5509.2	5165.1	5307.0	5548.5	5768.8	5937.9	6094.9	6158.3	6170.3
27.5°	9427.6	7537.8	5219.4	5017.2	5207.4	5427.7	5575.6	5666.2	5774.9	5823.2	5832.2
30°	9777.7	7399.0	4974.9	4899.4	5095.7	5261.7	5328.1	5334.1	5376.4	5376.4	5382.4
32.5°	10130.9	7193.7	4760.6	4784.7	4956.8	5065.5	5074.5	5005.1	4953.8	4869.3	4866.2
35°	10538.5	6985.4	4585.5	4654.9	4793.8	4860.2	4833.0	4700.2	4576.4	4437.6	4431.5
37.5°	10915.8	6771.1	4437.6	4522.1	4609.6	4657.9	4594.5	4434.6	4331.9	4190.0	4168.9
40°	11226.7	6577.9	4295.7	4383.2	4425.5	4467.8	4365.1	4235.3	4250.4	4171.9	4168.9
42.5°	11407.9	6390.7	4162.9	4229.3	4256.4	4286.6	4196.1	4099.5	4181.0	4120.6	4123.6
45°	11540.7	6227.7	4042.1	4066.3	4132.7	4178.0	4093.4	3984.8	4002.9	3770.4	3716.1
47.5°	11691.6	6137.1	3927.4	3903.3	4021.0	4099.5	3969.7	3812.7	3704.0	3474.6	3453.5
50°	11851.6	6103.9	3806.6	3740.2	3882.1	3957.6	3806.6	3610.4	3468.5	3344.8	3332.7
52.5°	11906.0	6100.9	3655.7	3544.0	3685.9	3791.6	3664.8	3465.5	3296.5	3175.7	3169.7
55°	12120.3	6188.4	3462.5	3275.3	3408.2	3625.5	3531.9	3245.2	3109.3	3055.0	3048.9
57.5°	12370.9	6203.5	3157.6	2982.5	3166.7	3423.3	3305.5	3058.0	2910.1	2843.7	2837.6
60°	12268.2	5832.2	2831.6	2759.1	2961.4	3233.1	3124.4	2910.1	2738.0	2674.6	2668.6
62.5°	9349.1	4117.6	2593.1	2565.9	2741.0	2958.4	2937.2	2713.9	2550.8	2505.6	2499.5
65°	5623.9	2892.0	2363.7	2360.7	2484.4	2692.7	2719.9	2538.8	2366.7	2303.3	2303.3
67.5°	2780.3	2212.7	2104.1	2089.0	2167.5	2315.4	2430.1	2282.2	2137.3	2076.9	2067.8
70°	1965.2	1950.1	1913.9	1871.6	1886.7	1947.1	1995.4	1871.6	1717.7	1657.3	1645.2
72.5°	1699.6	1702.6	1678.4	1645.2	1633.1	1590.9	1548.6	1458.1	1364.5	1301.1	1307.1
75°	1319.2	1325.2	1340.3	1328.3	1295.0	1249.8	1204.5	1089.8	1014.3	953.9	941.9
77.5°	769.8	800.0	848.3	836.2	842.2	778.8	760.7	649.0	579.6	537.3	528.3
80°	434.7	452.8	473.9	489.0	470.9	443.8	404.5	344.1	323.0	292.8	286.8
82.5°	262.6	280.7	289.8	301.9	295.8	259.6	229.4	190.2	172.1	157.0	154.0
85°	132.8	144.9	154.0	160.0	141.9	117.7	105.7	84.5	72.5	63.4	63.4
87.5°	33.2	36.2	42.3	36.2	33.2	15.1	12.1	3.0	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)