

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: P641301

Luminaire Tested: GWS-SA5F-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-750-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

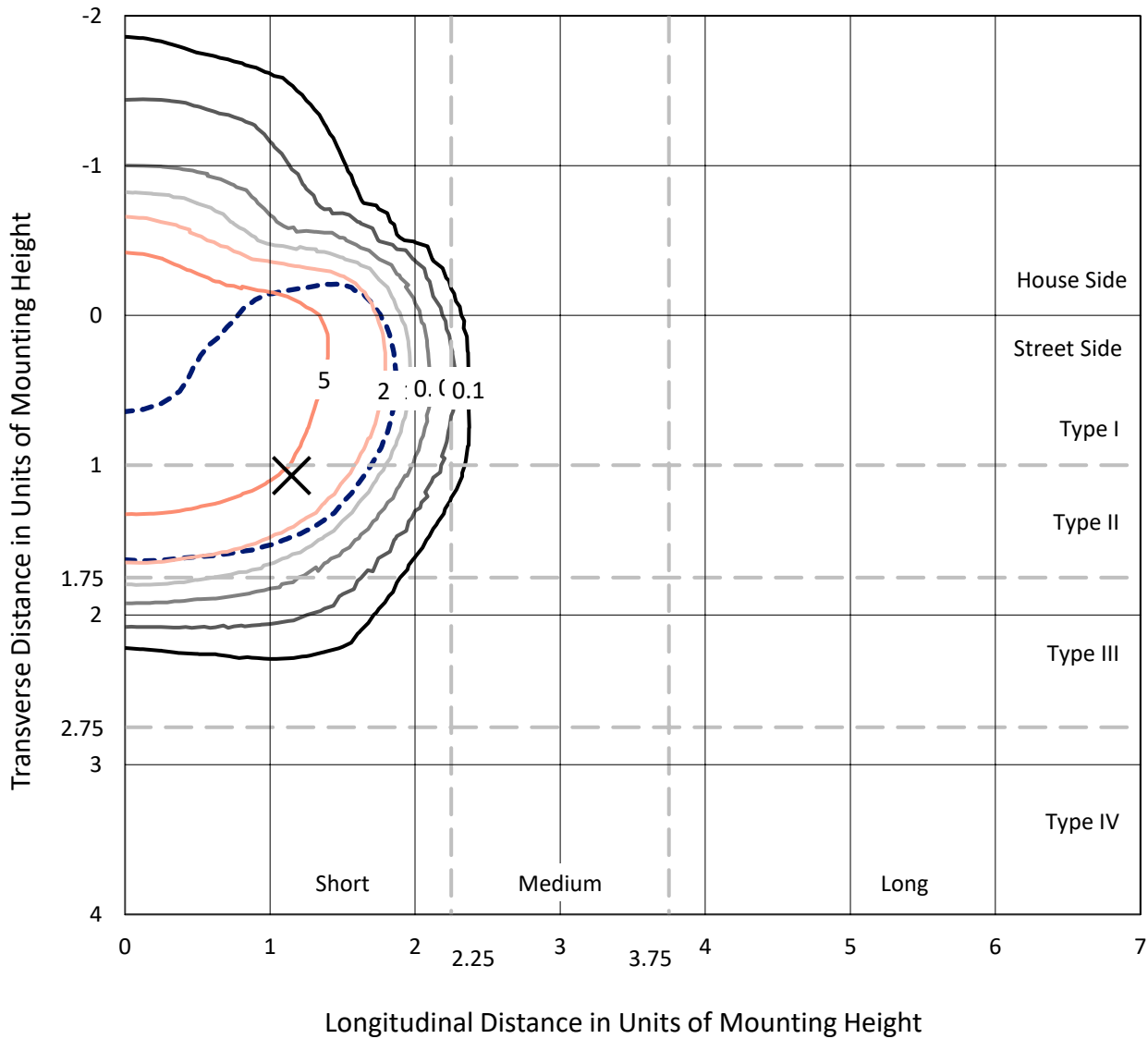
Lumens per Lamp: N/A  
Luminaire Lumens: 26364.6 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

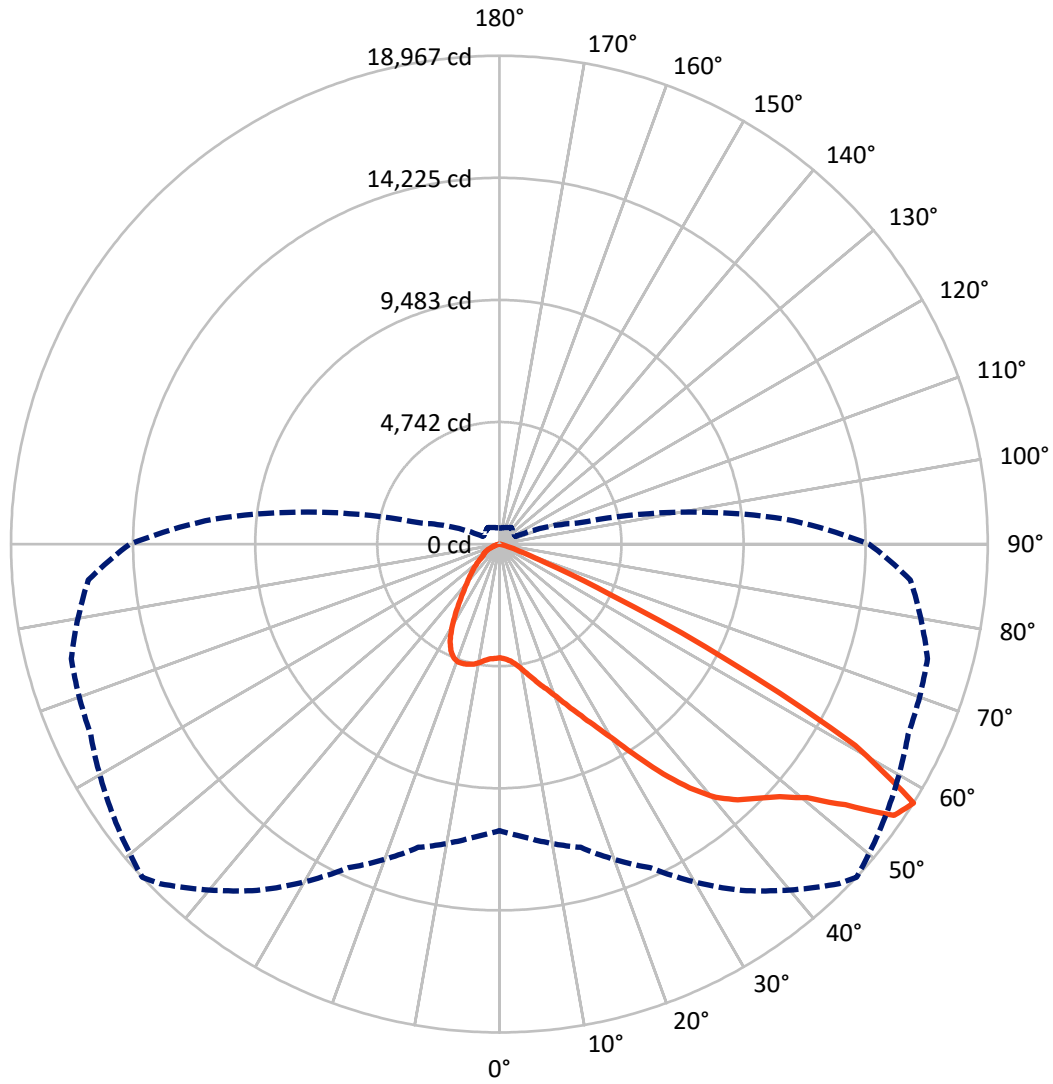
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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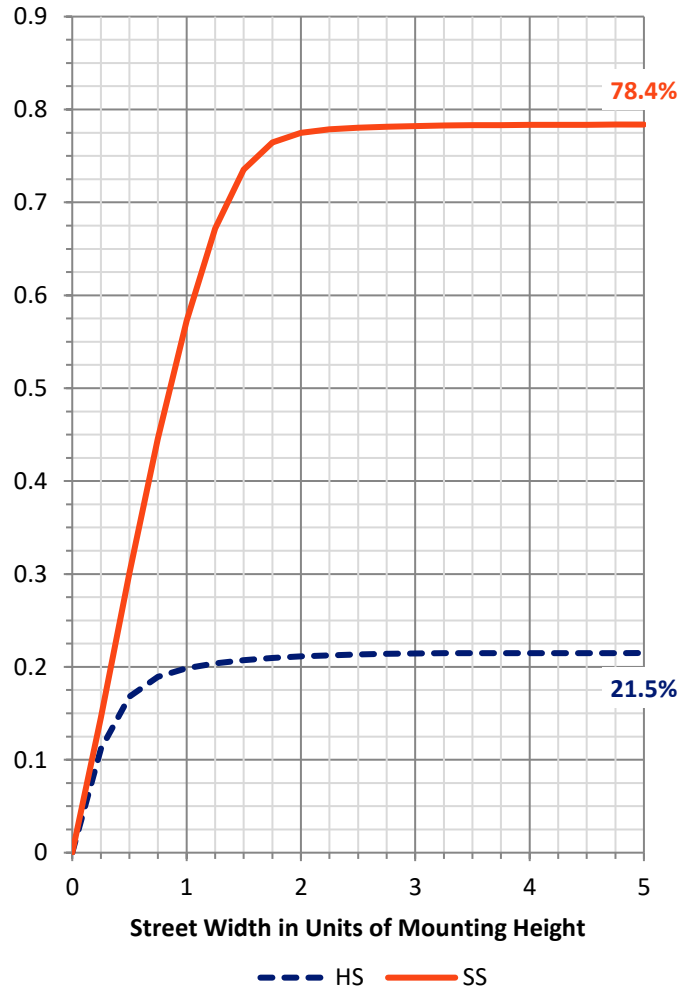
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5719.8	0.0	5719.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	20644.8	0.0	20644.8
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	26364.6	0.0	26364.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.1	1.7
10°-20°	1481.6	5.6
20°-30°	2751.0	10.4
30°-40°	4403.8	16.7
40°-50°	6437.3	24.4
50°-60°	7944.8	30.1
60°-70°	2654.7	10.1
70°-80°	247.4	0.9
80°-90°	5.1	0.0
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°	26364.6	100.0
0°-180°	26364.6	100.0

**Coefficient of Utilization**



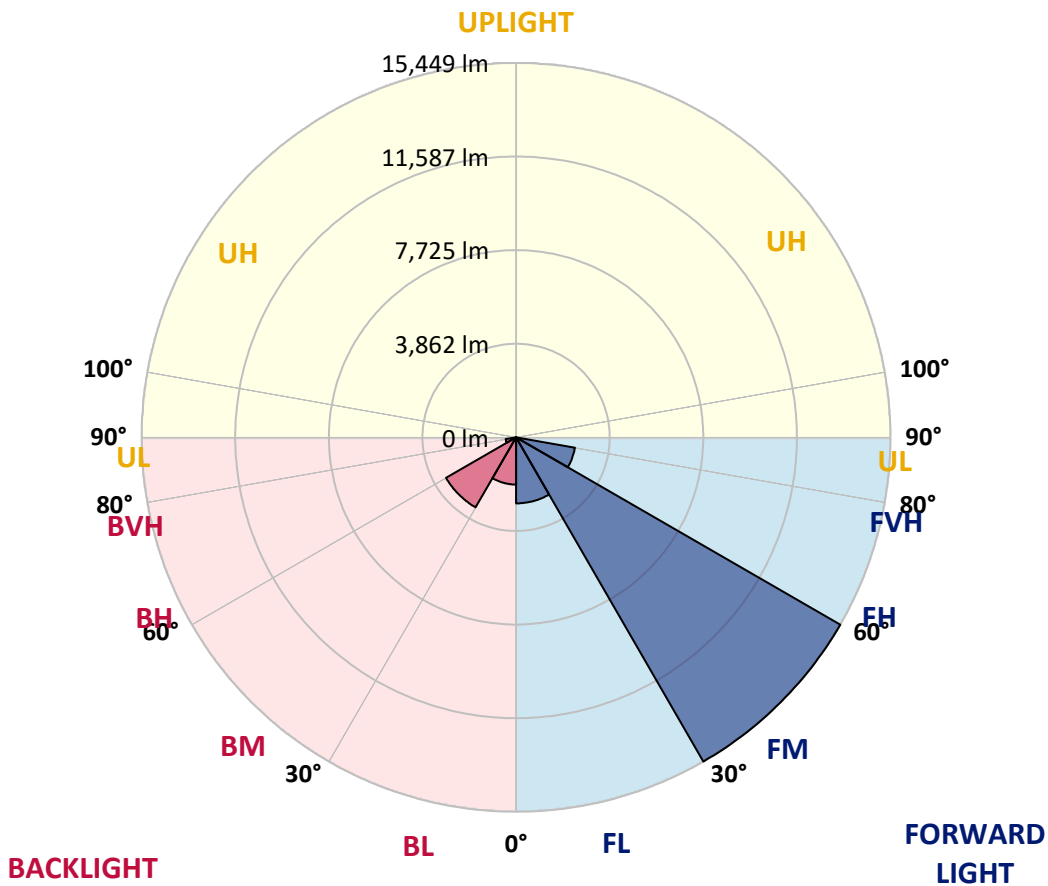
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2724.7	10.3			
FM (30°-60°)	15449.4	58.6			
FH (60°-80°)	2467.2	9.4			G2/5000
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	1946.9	7.4	B3/2500		
BM (30°-60°)	3336.4	12.7	B3/5000		
BH (60°-80°)	434.9	1.6	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5
2.5°	4459.4	4456.3	4453.3	4471.6	4465.5	4462.4	4468.6	4468.6	4468.6	4450.2	4413.5
5°	4566.5	4566.5	4563.4	4581.8	4566.5	4557.3	4560.4	4560.4	4548.1	4514.5	4468.6
7.5°	4734.8	4728.7	4722.6	4741.0	4725.6	4722.6	4728.7	4710.3	4688.9	4633.8	4569.6
10°	4976.6	4976.6	4967.4	4985.8	4973.6	4967.4	4967.4	4955.2	4915.4	4829.7	4734.8
12.5°	5310.2	5294.9	5273.5	5258.2	5252.1	5249.0	5252.1	5233.7	5190.9	5080.7	4949.1
15°	5674.5	5662.2	5628.5	5604.1	5570.4	5564.3	5582.6	5567.3	5524.5	5374.5	5187.8
17.5°	6133.5	6148.9	6063.2	6011.1	5913.2	5907.1	5913.2	5937.7	5907.1	5714.2	5441.8
20°	6525.3	6537.6	6473.3	6436.6	6347.8	6308.0	6320.2	6360.0	6326.4	6099.9	5720.4
22.5°	6944.6	6959.9	6892.6	6816.1	6776.3	6776.3	6822.2	6877.3	6831.4	6534.5	6038.7
25°	7446.6	7458.8	7403.7	7302.7	7232.3	7321.1	7388.4	7535.3	7458.8	7054.8	6415.1
27.5°	8022.0	8025.0	7945.5	7841.4	7804.7	7969.9	8037.3	8263.8	8233.2	7639.4	6813.0
30°	8637.2	8640.2	8621.9	8551.5	8517.8	8735.1	8826.9	9154.4	9133.0	8364.8	7354.8
32.5°	9276.8	9276.8	9310.5	9304.4	9344.2	9699.2	9846.1	10219.5	10198.1	9252.4	8028.1
35°	9919.6	9922.6	9980.8	10127.7	10293.0	10764.3	10957.1	11410.1	11361.1	10314.4	8888.1
37.5°	10651.1	10620.5	10700.0	10920.4	11287.7	11832.5	12016.1	12447.7	12392.6	11400.9	10011.4
40°	11532.5	11477.5	11477.5	11734.5	12150.8	12778.2	12934.3	13148.6	12961.9	12279.3	11113.2
42.5°	12505.8	12453.8	12386.5	12613.0	12961.9	13451.6	13580.1	13522.0	13368.9	13108.8	12368.1
45°	13491.4	13411.8	13457.7	13595.4	13797.4	14030.0	14079.0	13809.7	13739.3	13812.7	13405.7
47.5°	14241.2	14186.1	14299.4	14492.2	14657.5	14691.1	14657.5	14284.1	14277.9	14538.1	14124.9
50°	14492.2	14498.3	14810.5	15232.9	15499.1	15526.7	15480.8	15052.3	14994.1	15070.7	14513.6
52.5°	14516.7	14541.2	14997.2	15802.2	16527.5	16858.1	16821.4	16359.2	15789.9	15707.3	15101.3
55°	13926.0	14069.8	14706.4	15881.7	17424.3	18480.2	18602.7	17718.1	16873.4	16803.0	16365.3
57.5°	11131.6	11425.4	12193.6	13867.8	16423.5	18648.6	18966.9	18330.3	17513.1	17213.1	16025.6
60°	6653.9	7018.1	7755.7	9809.4	12499.7	15327.8	15875.6	15964.4	15587.9	14721.7	12294.6
62.5°	2855.6	2825.0	3734.0	5307.2	7434.3	9742.1	9990.0	10375.6	10703.1	9797.2	7461.9
65°	979.4	1065.1	1481.4	2393.4	3721.8	4523.6	4744.0	5089.9	5555.1	4584.9	2733.2
67.5°	606.0	642.7	853.9	1414.0	2007.8	1977.2	1879.2	1824.1	1775.2	1215.1	749.9
70°	440.7	471.3	599.9	973.3	1349.7	948.8	823.3	667.2	740.7	682.5	532.6
72.5°	296.9	321.4	413.2	590.7	691.7	462.2	428.5	486.6	587.6	560.1	434.6
75°	177.5	192.8	235.7	287.7	281.6	238.7	241.8	342.8	449.9	419.3	309.1
77.5°	122.4	128.5	156.1	186.7	137.7	73.5	67.3	94.9	153.0	153.0	104.1
80°	30.6	39.8	39.8	24.5	21.4	18.4	18.4	27.5	42.8	30.6	15.3
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.1	6.1	6.1	6.1
85°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.1	6.1	6.1
87.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	6.1	6.1
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°	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5	4413.5
2.5°	4434.9	4398.2	4422.6	4416.5	4434.9	4441.0	4413.5	4407.3	4410.4	4373.7	4361.4
5°	4477.7	4434.9	4447.1	4434.9	4456.3	4474.7	4465.5	4477.7	4493.0	4465.5	4453.3
7.5°	4569.6	4526.7	4523.6	4505.3	4535.9	4548.1	4545.1	4578.7	4609.3	4591.0	4572.6
10°	4728.7	4670.6	4664.4	4649.1	4658.3	4667.5	4633.8	4640.0	4667.5	4646.1	4636.9
12.5°	4924.6	4854.2	4838.9	4802.2	4802.2	4756.3	4682.8	4667.5	4688.9	4673.6	4658.3
15°	5135.8	5040.9	5016.4	4952.1	4890.9	4805.2	4728.7	4710.3	4725.6	4707.3	4695.0
17.5°	5371.4	5264.3	5184.7	5071.5	4936.8	4835.8	4750.1	4710.3	4685.9	4649.1	4646.1
20°	5604.1	5463.3	5328.6	5148.0	4970.5	4817.5	4676.7	4572.6	4483.9	4428.8	4407.3
22.5°	5873.4	5665.3	5448.0	5193.9	4939.9	4707.3	4459.4	4281.9	4128.8	4076.8	4052.3
25°	6161.1	5891.8	5567.3	5236.8	4835.8	4462.4	4125.8	3862.5	3660.5	3593.2	3565.7
27.5°	6479.4	6109.1	5689.8	5227.6	4621.6	4113.5	3666.7	3339.2	3140.2	3079.0	3100.4
30°	6883.4	6390.6	5842.8	5132.7	4300.2	3623.8	3100.4	2825.0	2675.0	2616.9	2619.9
32.5°	7422.1	6794.7	6066.2	4930.7	3887.0	3066.8	2607.7	2405.7	2304.7	2228.2	2222.0
35°	8193.4	7409.8	6274.3	4606.3	3385.1	2570.9	2237.3	2078.2	1937.4	1848.6	1863.9
37.5°	9117.7	8184.2	6387.6	4168.6	2821.9	2185.3	1958.8	1796.6	1637.4	1505.8	1521.1
40°	10213.4	9197.3	6378.4	3593.2	2307.7	1922.1	1726.2	1536.4	1337.5	1218.1	1230.4
42.5°	11434.6	10155.2	6179.5	2984.1	1912.9	1707.8	1502.8	1264.0	1071.2	997.8	1000.8
45°	12493.6	10932.7	5830.5	2353.6	1609.9	1499.7	1270.2	1025.3	939.6	887.6	884.5
47.5°	13277.1	11501.9	5331.7	1851.7	1365.1	1310.0	1043.7	918.2	850.9	808.0	801.9
50°	13714.8	11700.9	4780.7	1450.7	1153.9	1111.0	933.5	832.5	786.6	759.0	752.9
52.5°	14302.4	11939.6	4385.9	1144.7	967.2	909.0	860.0	774.3	743.7	722.3	713.1
55°	15232.9	12401.8	4043.1	909.0	805.0	792.7	811.1	740.7	722.3	688.6	676.4
57.5°	14357.5	11140.8	3140.2	704.0	679.5	725.4	783.5	707.0	661.1	630.5	618.3
60°	10103.2	7406.8	1579.3	566.2	606.0	679.5	737.6	639.7	593.8	599.9	593.8
62.5°	5570.4	3706.5	710.1	474.4	526.4	599.9	630.5	554.0	523.4	575.4	584.6
65°	1821.1	1261.0	410.1	367.3	416.2	489.7	544.8	526.4	520.3	581.5	599.9
67.5°	560.1	416.2	278.5	263.2	287.7	361.2	459.1	569.3	612.1	630.5	639.7
70°	419.3	327.5	238.7	223.4	235.7	275.5	388.7	474.4	446.9	449.9	443.8
72.5°	336.7	260.2	205.1	195.9	195.9	189.8	205.1	257.1	290.8	306.1	306.1
75°	235.7	183.6	156.1	143.9	113.2	91.8	82.6	82.6	73.5	70.4	67.3
77.5°	79.6	67.3	61.2	49.0	33.7	27.5	24.5	21.4	15.3	9.2	6.1
80°	12.2	9.2	6.1	6.1	6.1	3.1	3.1	3.1	0.0	0.0	0.0
82.5°	6.1	6.1	6.1	6.1	6.1	3.1	3.1	0.0	0.0	0.0	0.0
85°	6.1	6.1	6.1	6.1	6.1	3.1	3.1	0.0	0.0	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	3.1	3.1	3.1	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)