

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: P643281

Luminaire Tested: GWS-SA6E-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643281  
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-SAGE-750-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

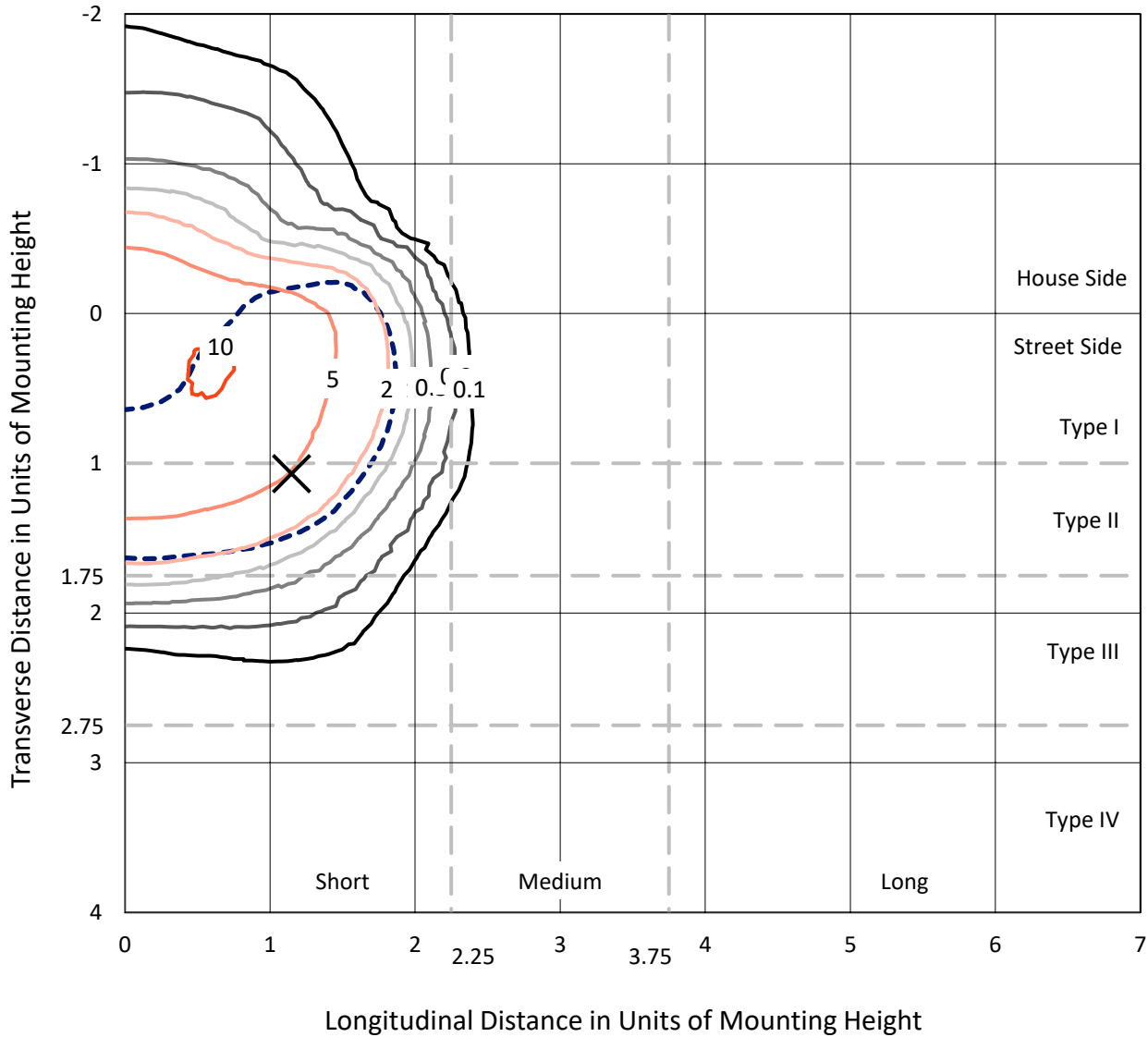
Lumens per Lamp: N/A  
Luminaire Lumens: 28276.1 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

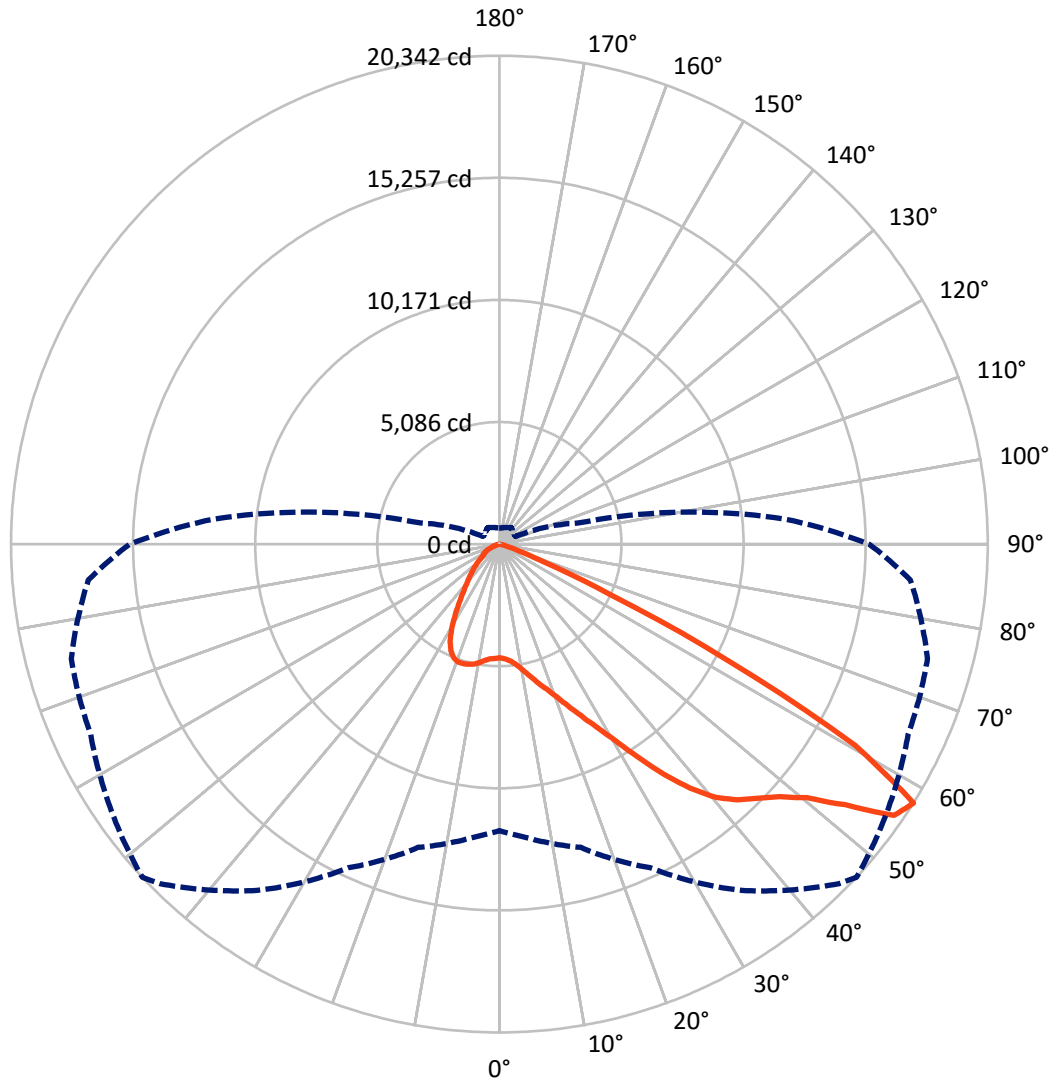
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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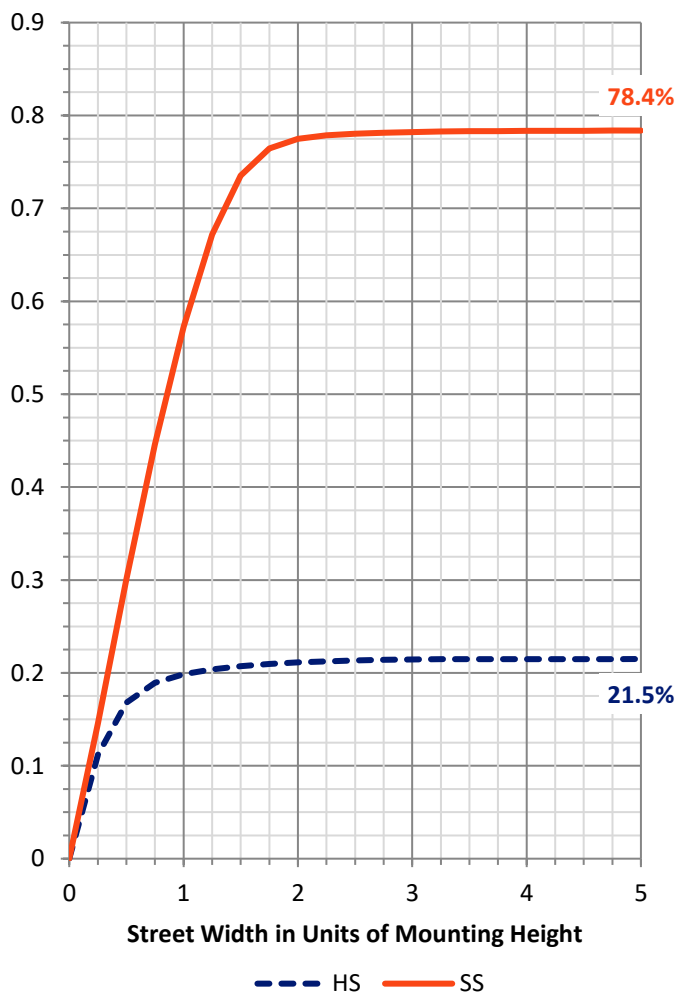
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6134.5	0.0	6134.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	22141.6	0.0	22141.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	28276.1	0.0	28276.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.9	1.7
10°-20°	1589.0	5.6
20°-30°	2950.4	10.4
30°-40°	4723.1	16.7
40°-50°	6904.0	24.4
50°-60°	8520.8	30.1
60°-70°	2847.2	10.1
70°-80°	265.3	0.9
80°-90°	5.5	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°	28276.1	100.0
0°-180°	28276.1	100.0

**Coefficient of Utilization**



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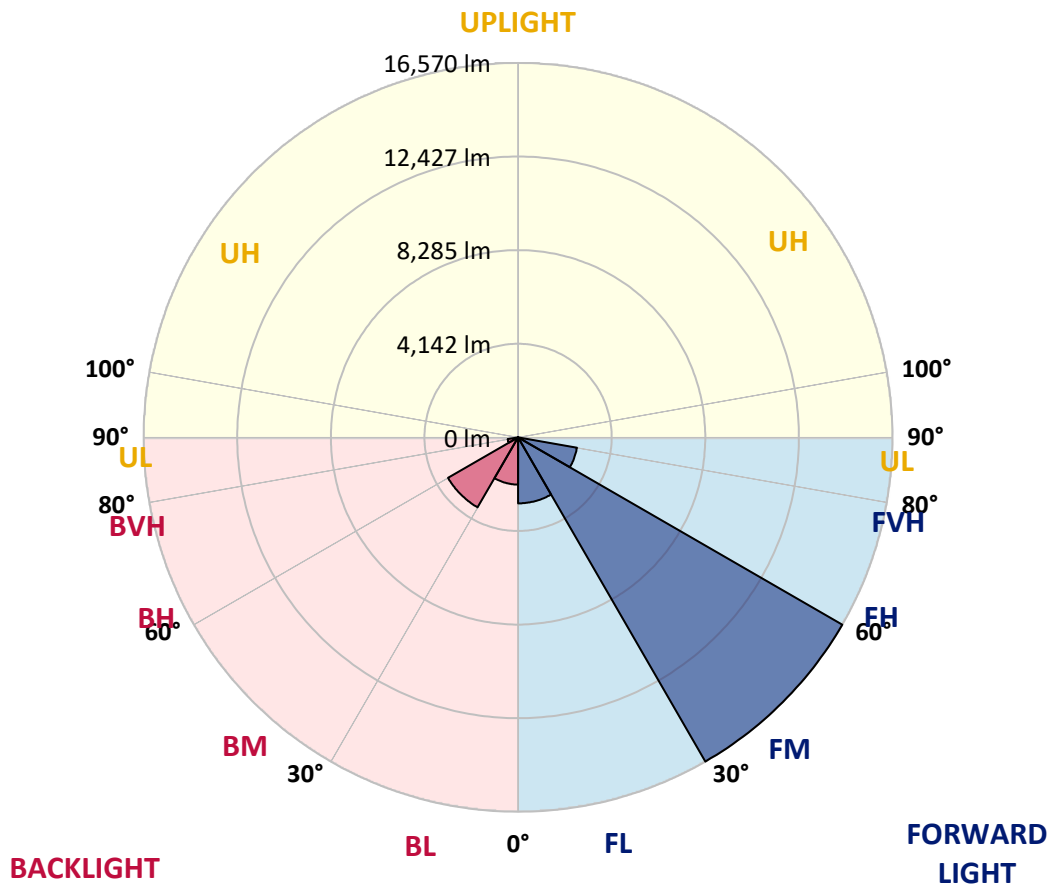
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2922.2	10.3			
FM (30°-60°)	16569.6	58.6			
FH (60°-80°)	2646.1	9.4			G2/5000
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	2088.1	7.4	B3/2500		
BM (30°-60°)	3578.3	12.7	B3/5000		
BH (60°-80°)	466.4	1.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4
2.5°	4782.7	4779.4	4776.1	4795.8	4789.3	4786.0	4792.5	4792.5	4792.5	4772.8	4733.4
5°	4897.6	4897.6	4894.3	4914.0	4897.6	4887.7	4891.0	4891.0	4877.9	4841.8	4792.5
7.5°	5078.1	5071.6	5065.0	5084.7	5068.3	5065.0	5071.6	5051.9	5028.9	4969.8	4900.9
10°	5337.4	5337.4	5327.6	5347.3	5334.2	5327.6	5327.6	5314.5	5271.8	5179.9	5078.1
12.5°	5695.2	5678.8	5655.8	5639.4	5632.9	5629.6	5632.9	5613.2	5567.2	5449.0	5307.9
15°	6085.9	6072.7	6036.6	6010.4	5974.3	5967.7	5987.4	5971.0	5925.0	5764.2	5563.9
17.5°	6578.2	6594.7	6502.7	6446.9	6341.9	6335.3	6341.9	6368.2	6335.3	6128.5	5836.4
20°	6998.4	7011.5	6942.6	6903.2	6808.0	6765.4	6778.5	6821.2	6785.0	6542.1	6135.1
22.5°	7448.1	7464.5	7392.3	7310.3	7267.6	7267.6	7316.8	7375.9	7326.7	7008.3	6476.5
25°	7986.5	7999.6	7940.5	7832.2	7756.7	7851.9	7924.1	8081.7	7999.6	7566.3	6880.2
27.5°	8603.6	8606.9	8521.5	8409.9	8370.5	8547.8	8620.0	8862.9	8830.1	8193.3	7307.0
30°	9263.4	9266.7	9247.0	9171.5	9135.4	9368.4	9466.9	9818.1	9795.2	8971.2	7888.0
32.5°	9949.4	9949.4	9985.5	9979.0	10021.7	10402.4	10560.0	10960.5	10937.5	9923.2	8610.2
35°	10638.8	10642.1	10704.4	10862.0	11039.2	11544.8	11751.6	12237.4	12184.9	11062.2	9532.6
37.5°	11423.3	11390.5	11475.8	11712.2	12106.1	12690.4	12887.3	13350.2	13291.1	12227.5	10737.2
40°	12368.7	12309.6	12309.6	12585.3	13031.8	13704.7	13872.1	14101.9	13901.6	13169.6	11919.0
42.5°	13412.5	13356.7	13284.5	13527.4	13901.6	14426.8	14564.7	14502.3	14338.2	14059.2	13264.8
45°	14469.5	14384.2	14433.4	14581.1	14797.8	15047.2	15099.8	14810.9	14735.4	14814.2	14377.6
47.5°	15273.7	15214.7	15336.1	15542.9	15720.2	15756.3	15720.2	15319.7	15313.1	15592.2	15149.0
50°	15542.9	15549.5	15884.3	16337.3	16622.9	16652.4	16603.2	16143.6	16081.3	16163.3	15565.9
52.5°	15569.2	15595.4	16084.5	16947.9	17725.8	18080.3	18040.9	17545.3	16934.7	16846.1	16196.1
55°	14935.6	15089.9	15772.7	17033.2	18687.6	19820.1	19951.4	19002.7	18096.7	18021.2	17551.8
57.5°	11938.7	12253.8	13077.7	14873.3	17614.2	20000.6	20342.0	19659.2	18782.8	18461.1	17187.5
60°	7136.3	7526.9	8318.0	10520.6	13406.0	16439.1	17026.6	17121.8	16718.1	15789.1	13186.0
62.5°	3062.6	3029.8	4004.7	5692.0	7973.3	10448.4	10714.3	11127.9	11479.1	10507.5	8002.9
65°	1050.4	1142.3	1588.8	2567.0	3991.6	4851.6	5088.0	5458.9	5957.8	4917.3	2931.3
67.5°	649.9	689.3	915.8	1516.5	2153.4	2120.5	2015.5	1956.4	1903.9	1303.2	804.2
70°	472.7	505.5	643.4	1043.9	1447.6	1017.6	883.0	715.6	794.4	732.0	571.2
72.5°	318.4	344.7	443.1	633.5	741.9	495.7	459.6	521.9	630.3	600.7	466.1
75°	190.4	206.8	252.8	308.6	302.0	256.0	259.3	367.6	482.5	449.7	331.5
77.5°	131.3	137.9	167.4	200.2	147.7	78.8	72.2	101.8	164.1	164.1	111.6
80°	32.8	42.7	42.7	26.3	23.0	19.7	19.7	29.5	46.0	32.8	16.4
82.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	6.6	6.6
85°	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6	6.6
87.5°	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.6	6.6
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°	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4	4733.4
2.5°	4756.4	4717.0	4743.3	4736.7	4756.4	4763.0	4733.4	4726.9	4730.2	4690.8	4677.6
5°	4802.4	4756.4	4769.6	4756.4	4779.4	4799.1	4789.3	4802.4	4818.8	4789.3	4776.1
7.5°	4900.9	4854.9	4851.6	4831.9	4864.8	4877.9	4874.6	4910.7	4943.5	4923.8	4904.1
10°	5071.6	5009.2	5002.6	4986.2	4996.1	5005.9	4969.8	4976.4	5005.9	4982.9	4973.1
12.5°	5281.6	5206.1	5189.7	5150.3	5150.3	5101.1	5022.3	5005.9	5028.9	5012.5	4996.1
15°	5508.1	5406.4	5380.1	5311.2	5245.5	5153.6	5071.6	5051.9	5068.3	5048.6	5035.4
17.5°	5760.9	5646.0	5560.7	5439.2	5294.8	5186.4	5094.5	5051.9	5025.6	4986.2	4982.9
20°	6010.4	5859.4	5714.9	5521.3	5330.9	5166.7	5015.7	4904.1	4808.9	4749.9	4726.9
22.5°	6299.2	6076.0	5843.0	5570.5	5298.0	5048.6	4782.7	4592.3	4428.2	4372.4	4346.1
25°	6607.8	6318.9	5971.0	5616.5	5186.4	4786.0	4424.9	4142.6	3925.9	3853.7	3824.2
27.5°	6949.2	6552.0	6102.3	5606.6	4956.7	4411.8	3932.5	3581.3	3367.9	3302.3	3325.2
30°	7382.5	6854.0	6266.4	5504.9	4612.0	3886.5	3325.2	3029.8	2869.0	2806.6	2809.9
32.5°	7960.2	7287.3	6506.0	5288.2	4168.8	3289.1	2796.7	2580.1	2471.8	2389.7	2383.1
35°	8787.4	7947.1	6729.2	4940.3	3630.5	2757.3	2399.6	2228.9	2077.9	1982.7	1999.1
37.5°	9778.7	8777.6	6850.7	4470.8	3026.5	2343.7	2100.8	1926.9	1756.2	1615.0	1631.4
40°	10953.9	9864.1	6840.9	3853.7	2475.0	2061.4	1851.4	1647.8	1434.5	1306.5	1319.6
42.5°	12263.6	10891.5	6627.5	3200.5	2051.6	1831.7	1611.7	1355.7	1148.9	1070.1	1073.4
45°	13399.4	11725.3	6253.3	2524.3	1726.6	1608.5	1362.3	1099.7	1007.7	951.9	948.7
47.5°	14239.7	12335.9	5718.2	1985.9	1464.0	1404.9	1119.4	984.8	912.6	866.6	860.0
50°	14709.1	12549.2	5127.4	1555.9	1237.5	1191.6	1001.2	892.9	843.6	814.1	807.5
52.5°	15339.4	12805.3	4703.9	1227.7	1037.3	974.9	922.4	830.5	797.7	774.7	764.8
55°	16337.3	13300.9	4336.3	974.9	863.3	850.2	869.9	794.4	774.7	738.6	725.4
57.5°	15398.5	11948.5	3367.9	755.0	728.7	778.0	840.3	758.3	709.0	676.2	663.1
60°	10835.7	7943.8	1693.8	607.3	649.9	728.7	791.1	686.1	636.8	643.4	636.8
62.5°	5974.3	3975.2	761.6	508.8	564.6	643.4	676.2	594.1	561.3	617.1	627.0
65°	1953.1	1352.4	439.9	393.9	446.4	525.2	584.3	564.6	558.0	623.7	643.4
67.5°	600.7	446.4	298.7	282.3	308.6	387.3	492.4	610.6	656.5	676.2	686.1
70°	449.7	351.2	256.0	239.6	252.8	295.4	416.9	508.8	479.3	482.5	476.0
72.5°	361.1	279.0	219.9	210.1	210.1	203.5	219.9	275.7	311.8	328.3	328.3
75°	252.8	197.0	167.4	154.3	121.5	98.5	88.6	88.6	78.8	75.5	72.2
77.5°	85.3	72.2	65.7	52.5	36.1	29.5	26.3	23.0	16.4	9.8	6.6
80°	13.1	9.8	6.6	6.6	6.6	3.3	3.3	3.3	0.0	0.0	0.0
82.5°	6.6	6.6	6.6	6.6	6.6	3.3	3.3	0.0	0.0	0.0	0.0
85°	6.6	6.6	6.6	6.6	6.6	3.3	3.3	0.0	0.0	0.0	0.0
87.5°	6.6	6.6	6.6	6.6	3.3	3.3	3.3	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)