

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: P643282

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643282  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
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-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

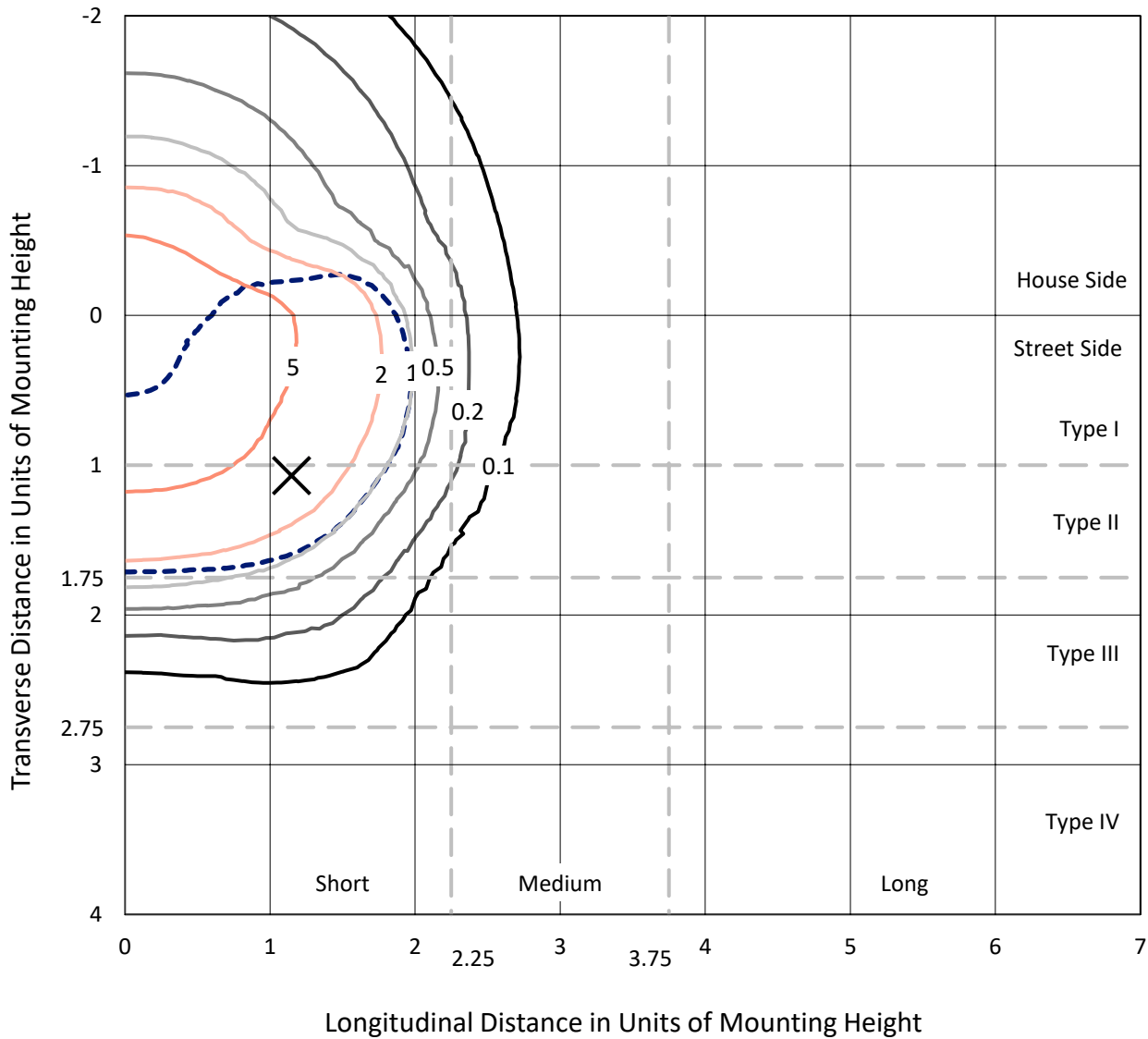
Lumens per Lamp: N/A  
Luminaire Lumens: 39082.4 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

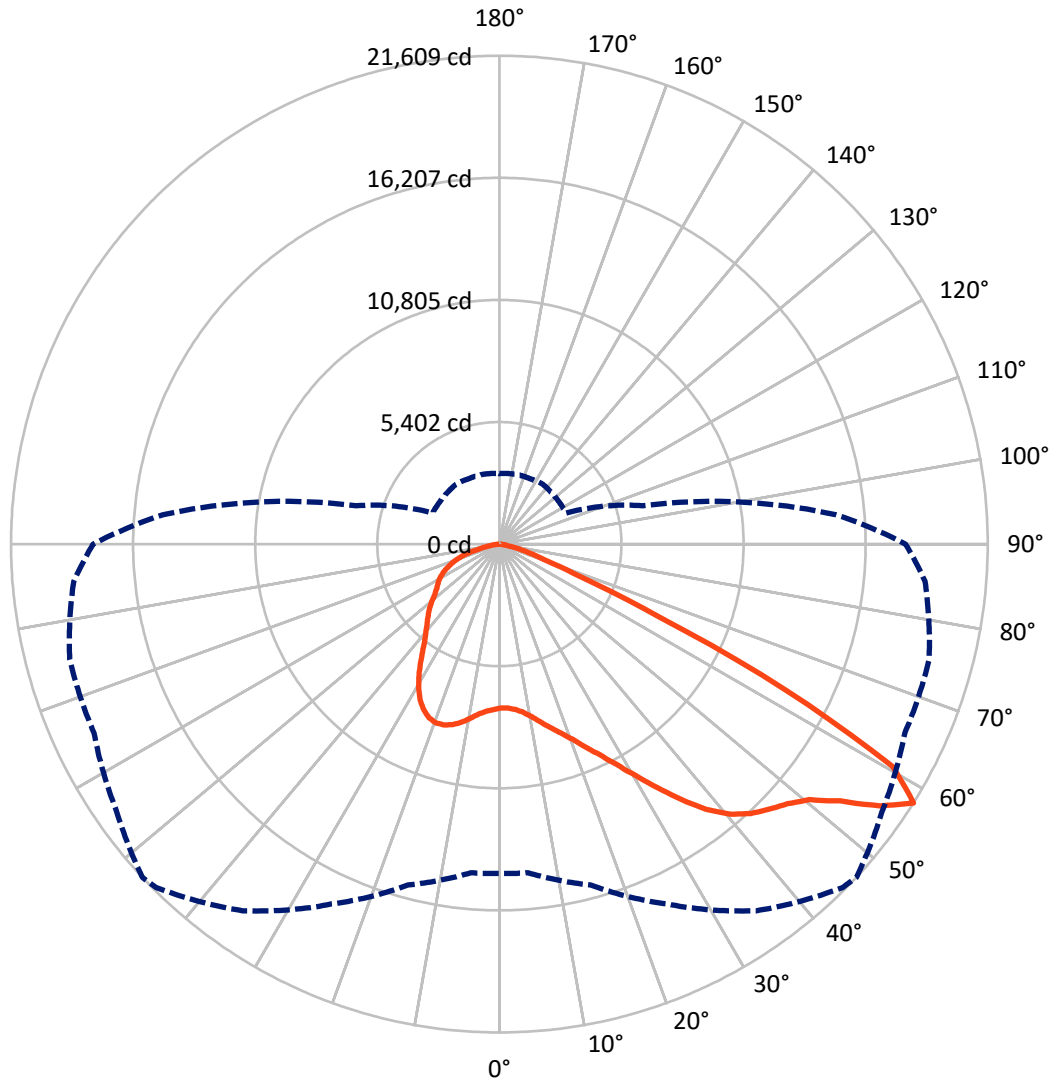
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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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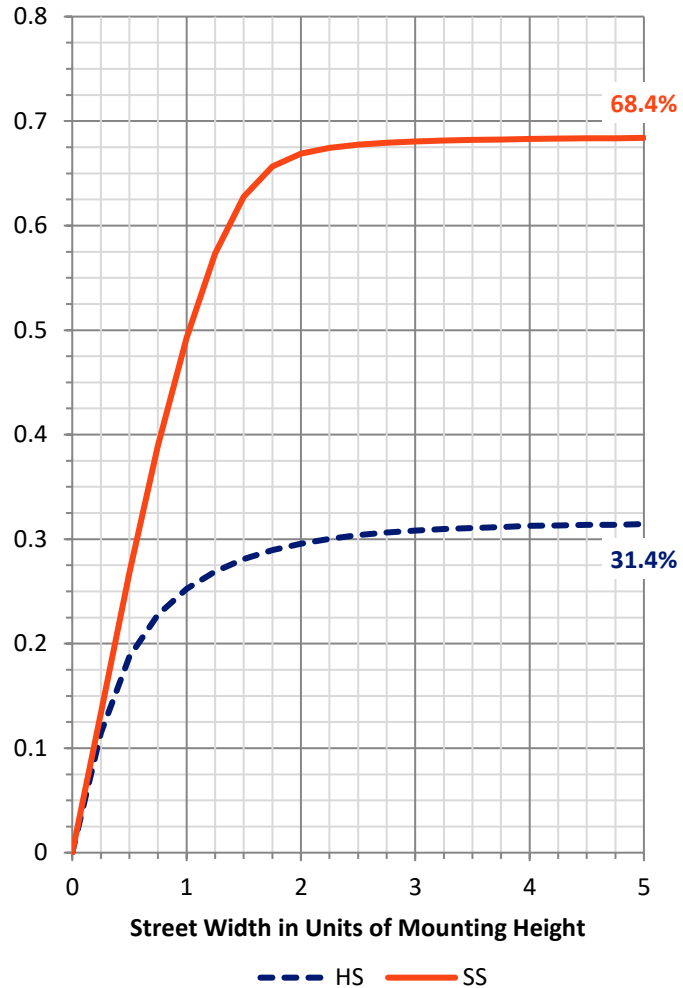
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12369.5	0.0	12369.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	26712.9	0.0	26712.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	39082.4	0.0	39082.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	714.9	1.8
10°-20°	2351.3	6.0
20°-30°	4233.7	10.8
30°-40°	6394.5	16.4
40°-50°	8610.9	22.0
50°-60°	10347.2	26.5
60°-70°	5039.3	12.9
70°-80°	1241.5	3.2
80°-90°	149.2	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°	39082.4	100.0
0°-180°	39082.4	100.0

**Coefficient of Utilization**



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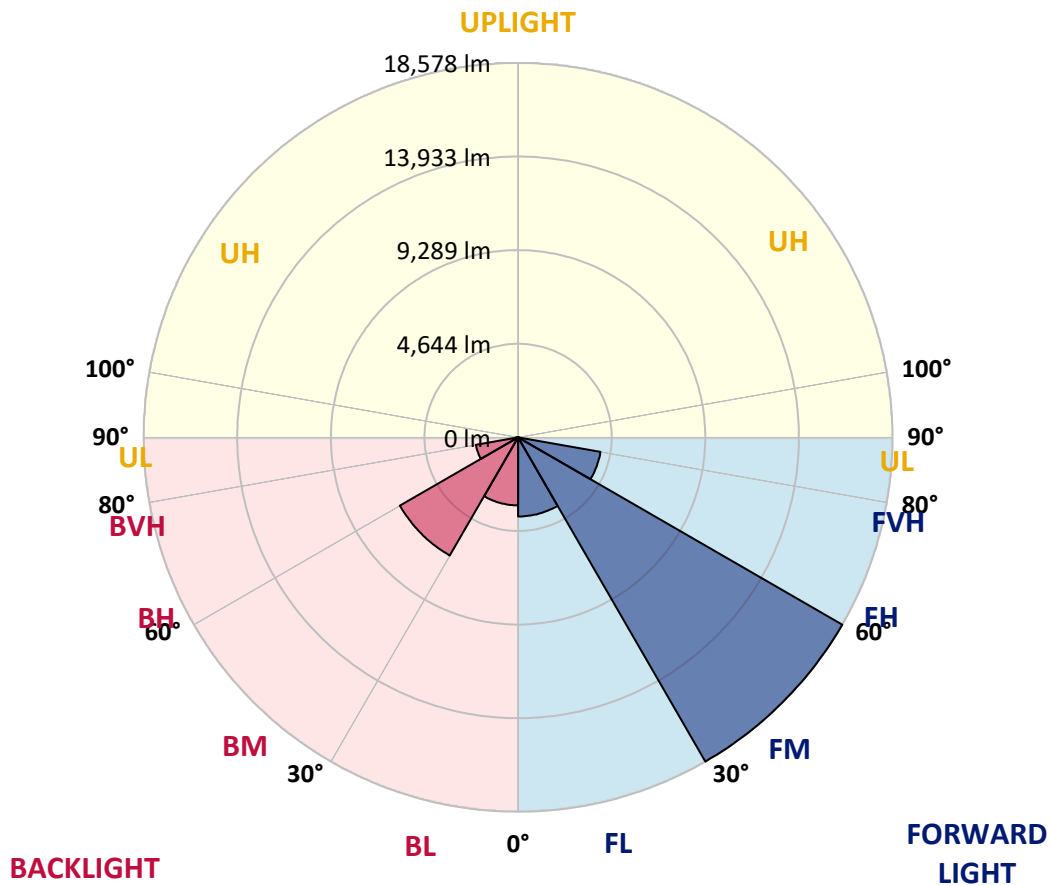
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3925.6	10.0			
FM (30°-60°)	18577.9	47.5			
FH (60°-80°)	4153.3	10.6			G2/5000
FVH (80°-90°)	56.1	0.1			G1/100
BL (0°-30°)	3374.2	8.6	B4/5000		
BM (30°-60°)	6774.7	17.3	B4/8500		
BH (60°-80°)	2127.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	93.1	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°	47°	55°	65°	75°	85°
0°	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9
2.5°	7234.8	7231.5	7231.5	7251.2	7251.2	7257.7	7267.6	7277.4	7280.7	7264.3	7228.2
5°	7313.5	7313.5	7313.5	7330.0	7330.0	7336.5	7349.6	7352.9	7349.6	7323.4	7287.3
7.5°	7438.3	7438.3	7441.6	7461.3	7477.7	7487.5	7510.5	7507.2	7497.4	7454.7	7408.7
10°	7641.8	7651.6	7661.5	7684.5	7717.3	7740.3	7756.7	7756.7	7743.6	7677.9	7618.8
12.5°	7930.7	7943.8	7953.6	7973.3	7999.6	8039.0	8075.1	8075.1	8058.7	7976.6	7888.0
15°	8268.8	8281.9	8278.6	8285.2	8334.4	8390.2	8419.8	8439.5	8446.0	8331.1	8193.3
17.5°	8656.1	8669.2	8656.1	8636.4	8643.0	8731.6	8784.1	8856.3	8899.0	8744.7	8524.8
20°	9007.3	8994.2	8994.2	9007.3	9027.0	9135.4	9214.1	9332.3	9384.8	9197.7	8856.3
22.5°	9378.3	9407.8	9394.7	9394.7	9473.5	9654.0	9749.2	9903.5	9959.3	9716.4	9256.8
25°	9857.5	9883.8	9877.2	9883.8	9975.7	10231.7	10326.9	10612.5	10668.3	10320.4	9700.0
27.5°	10382.7	10425.4	10445.1	10438.5	10586.2	10921.1	11039.2	11436.4	11538.2	10996.6	10172.6
30°	11065.5	11111.5	11127.9	11121.3	11295.3	11751.6	11886.1	12339.1	12483.6	11797.5	10773.4
32.5°	11856.6	11902.6	11951.8	11971.5	12194.7	12660.8	12854.5	13323.9	13530.7	12723.2	11498.8
35°	12641.1	12680.5	12775.7	12930.0	13235.3	13711.2	13881.9	14344.8	14545.0	13685.0	12375.2
37.5°	13507.7	13534.0	13616.0	13829.4	14269.3	14722.3	14893.0	15336.1	15359.1	14613.9	13366.6
40°	14456.4	14456.4	14440.0	14650.1	15109.6	15565.9	15713.6	15969.6	15835.1	15329.5	14331.6
42.5°	15260.6	15247.5	15260.6	15457.6	15799.0	16169.9	16297.9	16248.7	16078.0	15877.7	15204.8
45°	15986.1	15995.9	16114.1	16265.1	16442.3	16662.3	16737.8	16458.7	16304.5	16317.6	15904.0
47.5°	16478.4	16488.3	16764.0	17016.8	17125.1	17194.0	17161.2	16773.9	16695.1	16842.8	16442.3
50°	16544.1	16596.6	17072.6	17591.2	17860.4	17870.2	17778.3	17305.6	17282.7	17450.1	16731.2
52.5°	16557.2	16609.7	17203.9	18139.4	18838.6	18986.3	18881.3	18388.9	18149.3	17981.9	17085.7
55°	16508.0	16567.1	17223.6	18507.1	19846.3	20437.2	20447.1	19751.1	18986.3	18874.7	18096.7
57.5°	14574.6	14597.5	15615.1	17571.5	19807.0	21481.1	21609.1	20663.7	19790.5	19685.5	18907.5
60°	10153.0	10244.9	11351.1	13934.5	16639.3	19590.3	20003.9	19728.2	19143.9	18379.0	16222.4
62.5°	5084.7	5163.5	6273.0	8715.2	11475.8	13806.4	14249.6	14541.7	14679.6	13859.0	11045.8
65°	2189.5	2248.6	2937.9	4552.9	6496.2	7622.1	7776.4	8127.6	8987.6	8019.3	5951.3
67.5°	1464.0	1503.4	1854.6	2777.0	3827.5	3899.7	3876.7	3952.2	4139.3	3417.1	2688.4
70°	1122.6	1155.5	1391.8	2035.2	2750.8	2353.6	2228.9	2022.1	2196.0	2238.7	2179.6
72.5°	814.1	840.3	1017.6	1388.5	1723.3	1503.4	1483.7	1588.8	1825.1	1890.8	1854.6
75°	525.2	538.3	646.7	761.6	889.6	965.1	1004.5	1194.9	1434.5	1483.7	1441.0
77.5°	351.2	361.1	423.4	489.1	505.5	508.8	521.9	607.3	771.4	863.3	853.5
80°	183.8	183.8	206.8	206.8	236.3	282.3	295.4	351.2	426.7	472.7	476.0
82.5°	72.2	75.5	88.6	98.5	118.2	144.4	154.3	183.8	223.2	256.0	285.6
85°	29.5	32.8	36.1	42.7	52.5	65.7	68.9	78.8	105.0	131.3	147.7
87.5°	0.0	0.0	3.3	3.3	6.6	9.8	9.8	13.1	16.4	29.5	39.4
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°	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9	7247.9
2.5°	7270.9	7228.2	7270.9	7284.0	7320.1	7333.2	7310.3	7307.0	7307.0	7274.1	7264.3
5°	7320.1	7280.7	7323.4	7343.1	7395.6	7428.4	7435.0	7461.3	7477.7	7464.5	7461.3
7.5°	7441.6	7392.3	7438.3	7467.8	7536.8	7589.3	7612.3	7671.3	7714.0	7707.4	7704.2
10°	7654.9	7589.3	7641.8	7691.0	7766.5	7828.9	7832.2	7865.0	7907.7	7894.6	7888.0
12.5°	7901.1	7838.7	7897.8	7947.1	8035.7	8062.0	8019.3	8006.2	8012.7	7996.3	7983.2
15°	8203.1	8114.5	8167.0	8222.8	8272.0	8242.5	8150.6	8114.5	8111.2	8088.2	8075.1
17.5°	8505.1	8393.5	8432.9	8462.4	8439.5	8347.5	8232.7	8170.3	8140.7	8094.8	8081.7
20°	8803.8	8662.7	8656.1	8633.1	8528.1	8360.7	8206.4	8081.7	8006.2	7943.8	7920.8
22.5°	9145.2	8948.3	8849.8	8744.7	8515.0	8242.5	8009.4	7832.2	7710.7	7631.9	7605.7
25°	9512.9	9233.8	9030.3	8820.2	8383.7	7989.7	7664.8	7421.9	7277.4	7192.1	7162.5
27.5°	9877.2	9493.2	9187.9	8830.1	8121.0	7625.4	7188.8	6860.5	6716.1	6647.2	6624.2
30°	10369.6	9837.8	9375.0	8702.1	7776.4	7119.9	6575.0	6243.4	6148.2	6099.0	6079.3
32.5°	10937.5	10274.4	9624.5	8432.9	7336.5	6529.0	5954.6	5724.8	5659.1	5563.9	5560.7
35°	11685.9	10898.1	9860.8	8035.7	6781.8	5895.5	5478.6	5314.5	5196.3	5045.3	5032.2
37.5°	12559.1	11676.1	9988.8	7530.2	6135.1	5373.5	5124.1	4940.2	4749.9	4549.6	4523.4
40°	13461.8	12585.3	9998.7	6932.8	5501.6	5028.9	4818.8	4579.2	4342.8	4119.6	4090.1
42.5°	14410.4	13432.2	9824.7	6243.4	4982.9	4730.2	4516.8	4214.8	3948.9	3797.9	3781.5
45°	15257.3	14115.0	9430.8	5518.0	4598.9	4480.7	4208.2	3883.3	3742.1	3633.8	3610.8
47.5°	15923.7	14568.0	8899.0	4868.0	4287.0	4224.7	3870.1	3702.7	3594.4	3495.9	3472.9
50°	16251.9	14669.8	8206.4	4339.5	3998.2	3922.7	3679.7	3551.7	3479.5	3400.7	3381.0
52.5°	16659.0	14784.6	7609.0	3896.4	3715.9	3614.1	3522.2	3420.4	3367.9	3318.7	3302.3
55°	17594.5	15217.9	7293.8	3541.9	3446.7	3400.7	3387.6	3302.3	3285.8	3253.0	3223.5
57.5°	17975.3	14938.9	6548.7	3253.0	3233.3	3239.9	3272.7	3193.9	3177.5	3138.1	3118.4
60°	14456.4	11292.0	4434.7	3003.5	3056.1	3098.7	3131.6	3052.8	3029.8	3023.2	2997.0
62.5°	9263.4	6945.9	3095.5	2770.5	2849.3	2901.8	2921.5	2846.0	2829.6	2882.1	2885.4
65°	4822.1	3784.8	2511.2	2521.0	2586.7	2665.4	2704.8	2678.6	2672.0	2727.8	2731.1
67.5°	2461.9	2314.2	2189.5	2225.6	2278.1	2379.9	2471.8	2586.7	2626.0	2632.6	2635.9
70°	2097.6	2031.9	1969.5	1992.5	2048.3	2104.1	2192.7	2248.6	2182.9	2166.5	2159.9
72.5°	1785.7	1736.5	1706.9	1733.2	1762.7	1752.9	1726.6	1752.9	1762.7	1766.0	1769.3
75°	1388.5	1352.4	1329.4	1332.7	1332.7	1296.6	1247.4	1217.8	1185.0	1158.7	1158.7
77.5°	850.2	856.7	879.7	876.4	873.2	860.0	810.8	784.5	705.7	682.8	682.8
80°	485.8	495.7	518.6	525.2	525.2	508.8	459.6	430.0	393.9	377.5	374.2
82.5°	295.4	308.6	321.7	328.3	331.5	311.8	269.2	246.2	226.5	210.1	210.1
85°	154.3	160.8	174.0	177.3	167.4	147.7	124.7	114.9	95.2	91.9	91.9
87.5°	42.7	46.0	52.5	42.7	39.4	29.5	16.4	13.1	6.6	3.3	3.3
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)