

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: P643164

Luminaire Tested: GWS-SA6E-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643164  
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-SAGE-735-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

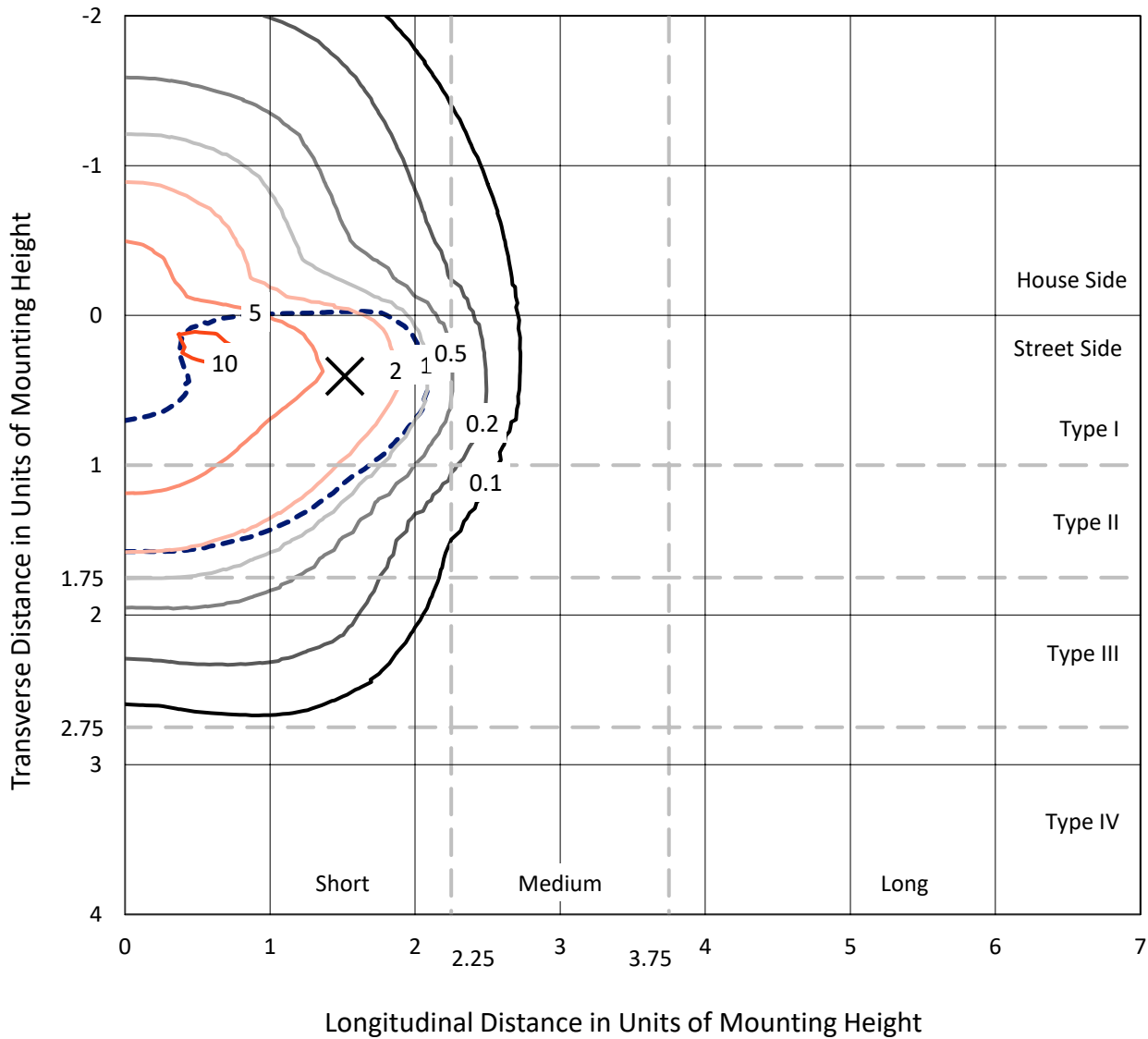
Lumens per Lamp: N/A  
Luminaire Lumens: 36809.7 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

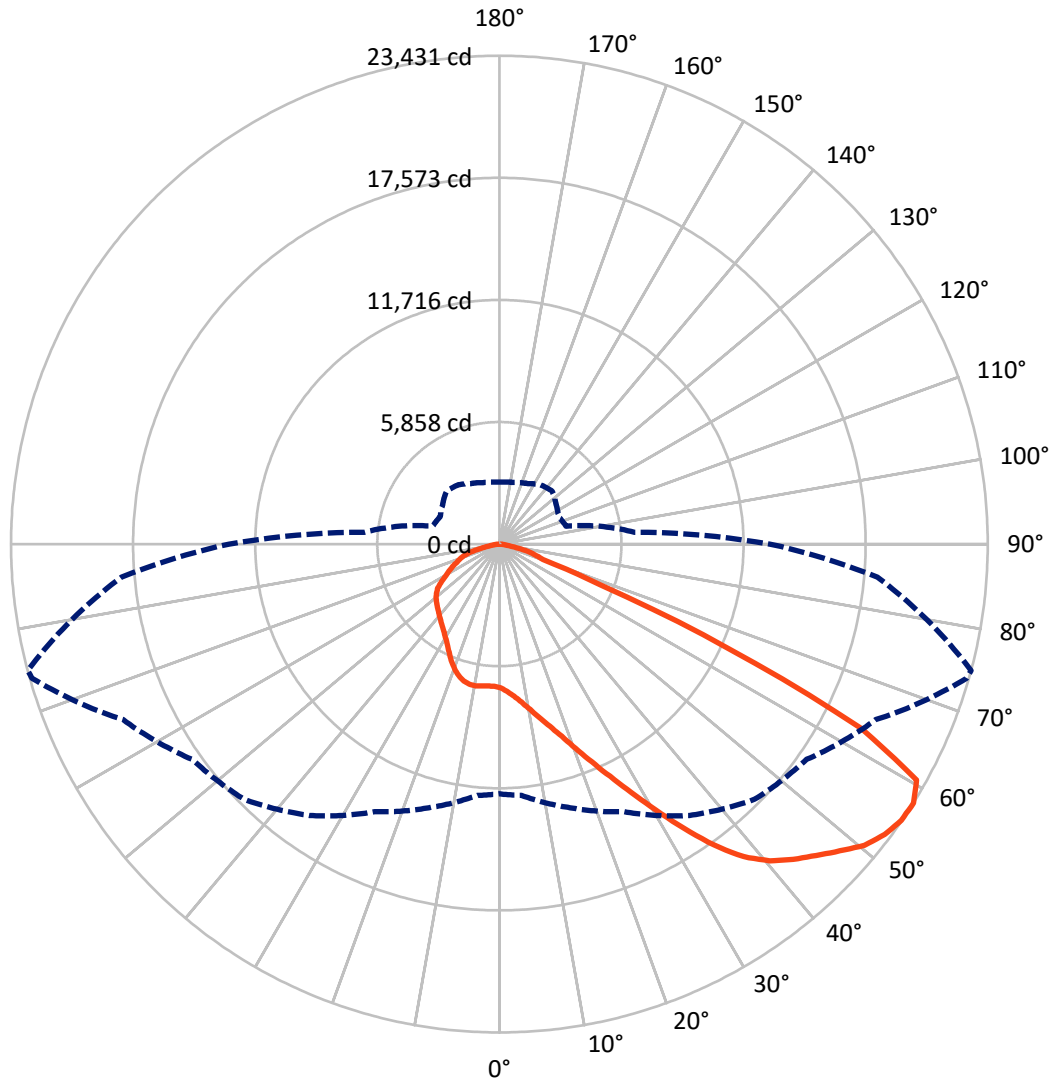
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 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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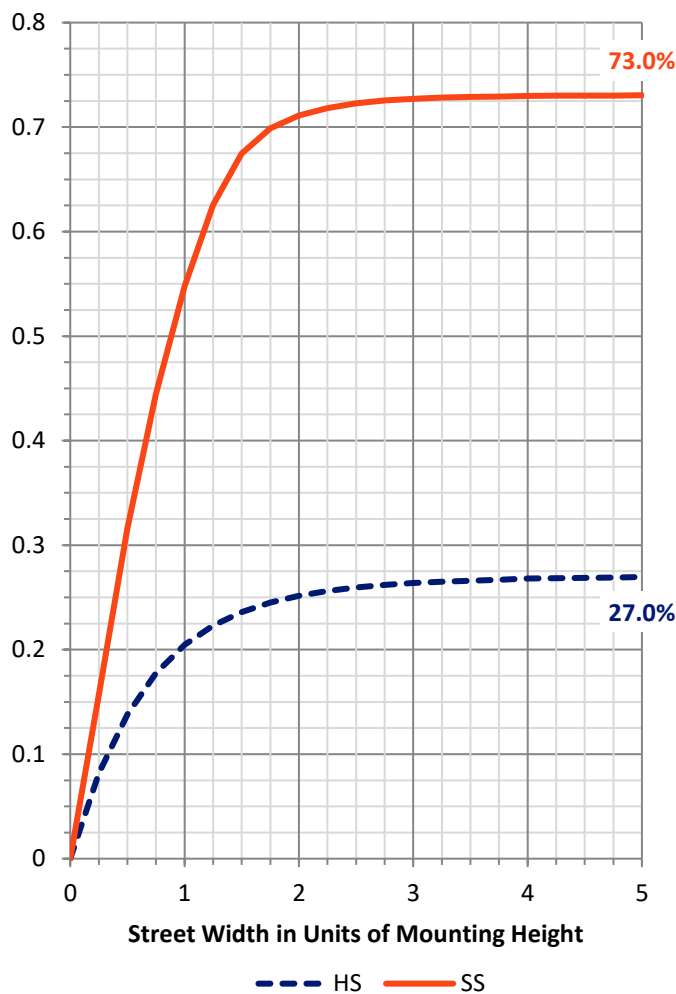
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9957.8	0.0	9957.8
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	26851.9	0.0	26851.9
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	36809.7	0.0	36809.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.8	1.9
10°-20°	2196.3	6.0
20°-30°	3895.1	10.6
30°-40°	5962.7	16.2
40°-50°	8302.5	22.6
50°-60°	9513.1	25.8
60°-70°	4888.0	13.3
70°-80°	1230.6	3.3
80°-90°	131.6	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°	36809.7	100.0
0°-180°	36809.7	100.0

**Coefficient of Utilization**



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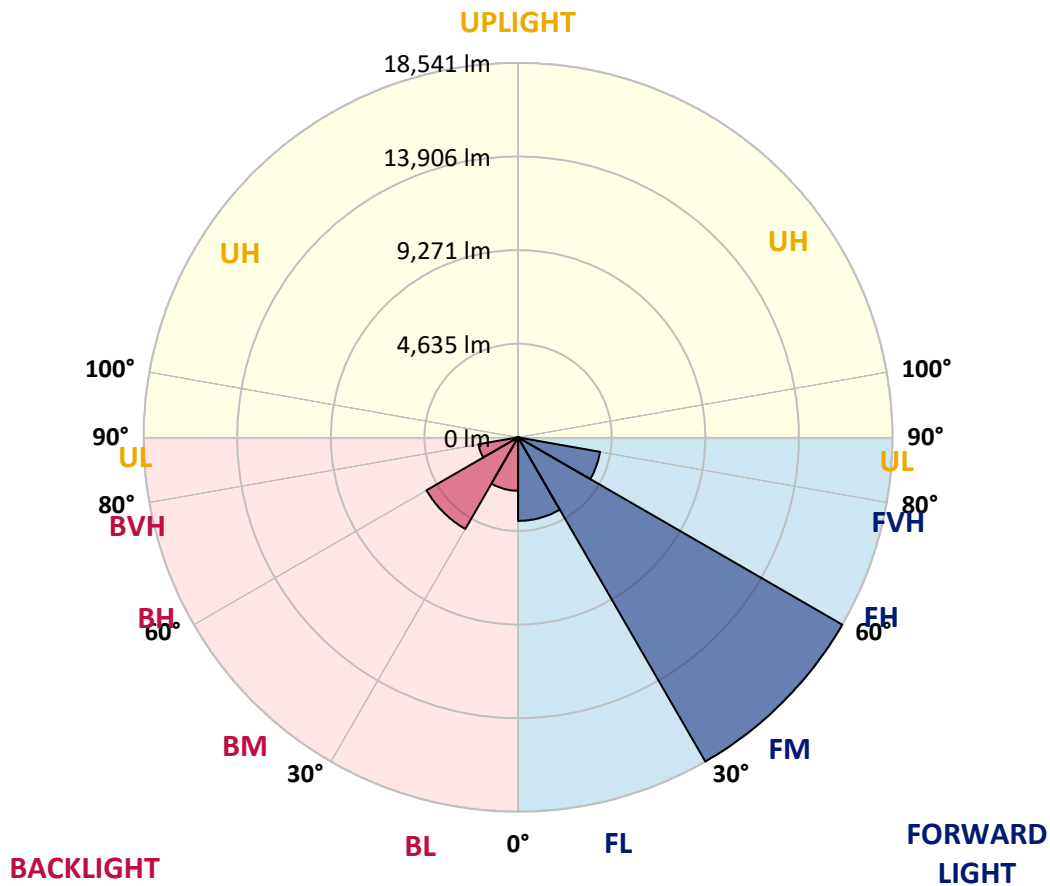
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4135.8	11.2			
FM (30°-60°)	18541.5	50.4			
FH (60°-80°)	4126.0	11.2			G2/5000
FVH (80°-90°)	48.7	0.1			G1/100
BL (0°-30°)	2645.4	7.2	B4/5000		
BM (30°-60°)	5236.9	14.2	B4/8500		
BH (60°-80°)	1992.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	82.9	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°	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6
2.5°	7406.3	7425.3	7406.3	7438.0	7374.7	7346.2	7276.5	7172.1	7089.8	7077.1	6985.4
5°	7982.4	8023.5	7998.2	7985.5	7900.1	7836.8	7732.3	7523.4	7352.5	7327.2	7146.8
7.5°	8352.7	8381.2	8381.2	8390.7	8359.0	8286.2	8175.4	7928.6	7688.0	7650.0	7377.8
10°	8476.1	8498.3	8539.4	8618.5	8681.9	8704.0	8631.2	8393.8	8099.5	8061.5	7681.7
12.5°	8504.6	8529.9	8593.2	8738.8	8912.9	9071.2	9083.8	8909.7	8580.6	8539.4	8033.0
15°	8558.4	8583.7	8669.2	8849.6	9106.0	9409.8	9596.6	9476.3	9112.3	9068.0	8431.8
17.5°	8552.1	8580.6	8707.2	8947.7	9292.7	9732.7	10093.5	10144.1	9767.5	9691.5	8884.4
20°	8536.3	8561.6	8697.7	8992.0	9419.3	10023.9	10675.9	10938.6	10533.4	10463.8	9413.0
22.5°	8662.9	8691.3	8795.8	9039.5	9485.8	10248.6	11213.9	11846.9	11441.8	11343.7	10020.7
25°	8947.7	8988.9	9052.2	9219.9	9606.1	10448.0	11764.7	12875.6	12461.0	12343.9	10682.2
27.5°	9387.7	9438.3	9526.9	9606.1	9875.1	10701.2	12312.2	14027.7	13613.1	13489.6	11381.7
30°	9925.7	9992.2	10106.1	10159.9	10343.5	11074.7	12907.3	15214.6	14974.1	14803.1	12169.8
32.5°	10669.5	10761.3	10868.9	10884.8	10995.5	11641.2	13496.0	16392.0	16388.9	16268.6	13065.5
35°	11638.0	11736.2	11758.3	11780.5	11834.3	12419.8	14208.1	17465.0	17879.6	17740.3	14040.4
37.5°	12695.2	12837.6	12872.4	12774.3	12850.3	13356.7	15008.9	18325.9	19177.3	19028.5	14983.6
40°	13825.1	13882.1	13977.1	13822.0	13916.9	14429.7	15793.8	18876.6	20145.8	19987.6	15727.3
42.5°	14635.4	14739.8	14882.3	14825.3	14879.1	15347.5	16344.5	19142.5	20835.8	20677.6	16262.2
45°	15515.3	15546.9	15638.7	15626.1	15657.7	16094.5	16740.2	19259.6	21453.0	21310.6	16718.0
47.5°	16281.2	16328.7	16388.9	16319.2	16249.6	16534.4	17063.0	19360.9	22165.1	21994.2	17196.0
50°	17018.7	17059.9	17132.6	16930.1	16670.5	16743.3	17221.3	19500.1	22833.0	22712.7	17572.6
52.5°	17154.8	17199.1	17540.9	17582.1	17249.8	16993.4	17499.8	19807.2	23225.5	23149.5	17708.7
55°	15442.5	15521.6	16202.1	16983.9	17803.6	17721.4	17946.1	19968.6	23380.5	23399.5	17952.4
57.5°	11986.2	12100.2	13094.0	14167.0	15891.9	17319.4	18003.1	19927.4	23326.7	23431.2	18202.5
60°	7862.1	7928.6	9106.0	10308.7	12097.0	14072.0	16113.5	19186.8	22848.8	22997.6	18139.1
62.5°	4747.6	4823.6	5770.0	6681.5	7735.5	9055.3	10929.1	15420.3	19152.0	19484.3	14527.8
65°	3313.9	3415.1	4244.4	4994.5	5358.5	5086.3	5535.7	8612.2	11932.4	12071.7	8878.1
67.5°	2402.3	2471.9	3152.4	4045.0	4447.0	3592.4	2737.8	3813.9	5197.1	5247.7	3662.0
70°	1573.1	1652.2	2269.4	3079.6	3630.4	2911.9	2047.8	2063.6	2187.1	2212.4	2126.9
72.5°	864.1	911.5	1402.1	2044.7	2145.9	1740.8	1598.4	1715.5	1800.9	1800.9	1823.1
75°	446.3	487.4	572.9	674.2	813.4	952.7	1152.1	1326.2	1418.0	1424.3	1414.8
77.5°	227.9	243.7	307.0	332.3	364.0	424.1	550.7	705.8	788.1	819.8	813.4
80°	107.6	113.9	129.8	151.9	186.7	237.4	297.5	354.5	405.1	411.5	446.3
82.5°	57.0	63.3	69.6	82.3	101.3	126.6	174.1	208.9	240.5	246.9	275.4
85°	22.2	25.3	28.5	31.7	44.3	53.8	72.8	98.1	120.3	120.3	142.4
87.5°	0.0	0.0	0.0	0.0	3.2	6.3	12.7	15.8	22.2	22.2	38.0
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°	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6	6893.6
2.5°	6963.2	6871.4	6830.3	6763.8	6710.0	6649.9	6602.4	6567.6	6545.4	6532.8	6520.1
5°	7077.1	6937.9	6827.1	6694.2	6602.4	6513.8	6441.0	6390.3	6365.0	6346.0	6333.4
7.5°	7254.4	7067.7	6858.8	6653.0	6491.6	6349.2	6257.4	6203.6	6168.8	6156.1	6146.6
10°	7498.1	7238.6	6893.6	6567.6	6327.0	6171.9	6108.6	6083.3	6086.5	6080.1	6077.0
12.5°	7773.5	7419.0	6884.1	6415.6	6149.8	6058.0	6061.2	6102.3	6149.8	6162.4	6165.6
15°	8071.0	7596.2	6792.3	6219.4	6010.5	6020.0	6102.3	6200.4	6289.0	6323.9	6330.2
17.5°	8393.8	7745.0	6624.5	6004.2	5896.6	5997.9	6149.8	6311.2	6441.0	6497.9	6513.8
20°	8754.6	7871.6	6387.2	5792.1	5789.0	5956.7	6178.3	6390.3	6554.9	6630.9	6643.5
22.5°	9137.6	7950.7	6096.0	5595.9	5678.2	5902.9	6156.1	6377.7	6551.7	6627.7	6643.5
25°	9523.8	7976.0	5776.3	5415.5	5564.2	5817.4	6048.5	6225.7	6390.3	6456.8	6469.5
27.5°	9884.6	7903.2	5472.4	5260.4	5459.8	5690.8	5845.9	5940.9	6054.8	6105.5	6115.0
30°	10251.7	7757.6	5216.1	5136.9	5342.7	5516.8	5586.4	5592.7	5637.0	5637.0	5643.4
32.5°	10622.1	7542.4	4991.4	5016.7	5197.1	5311.0	5320.5	5247.7	5193.9	5105.3	5102.1
35°	11049.3	7324.0	4807.8	4880.6	5026.2	5095.8	5067.3	4928.1	4798.3	4652.7	4646.4
37.5°	11445.0	7099.3	4652.7	4741.3	4833.1	4883.7	4817.3	4649.5	4541.9	4393.1	4371.0
40°	11771.0	6896.7	4503.9	4595.7	4640.0	4684.3	4576.7	4440.6	4456.5	4374.2	4371.0
42.5°	11960.9	6700.5	4364.7	4434.3	4462.8	4494.4	4399.5	4298.2	4383.7	4320.4	4323.5
45°	12100.2	6529.6	4238.1	4263.4	4333.0	4380.5	4291.9	4177.9	4196.9	3953.2	3896.2
47.5°	12258.4	6434.6	4117.8	4092.5	4215.9	4298.2	4162.1	3997.5	3883.6	3643.0	3620.9
50°	12426.2	6399.8	3991.2	3921.6	4070.3	4149.4	3991.2	3785.5	3636.7	3506.9	3494.3
52.5°	12483.1	6396.7	3832.9	3715.8	3864.6	3975.4	3842.4	3633.5	3456.3	3329.7	3323.3
55°	12707.8	6488.4	3630.4	3434.1	3573.4	3801.3	3703.2	3402.5	3260.0	3203.1	3196.7
57.5°	12970.6	6504.3	3310.7	3127.1	3320.2	3589.2	3465.8	3206.2	3051.1	2981.5	2975.2
60°	12862.9	6115.0	2968.9	2892.9	3105.0	3389.8	3275.9	3051.1	2870.7	2804.3	2797.9
62.5°	9802.3	4317.2	2718.8	2690.3	2873.9	3101.8	3079.6	2845.4	2674.5	2627.0	2620.7
65°	5896.6	3032.2	2478.3	2475.1	2604.9	2823.3	2851.7	2661.8	2481.4	2415.0	2415.0
67.5°	2915.1	2320.0	2206.1	2190.2	2272.5	2427.6	2547.9	2392.8	2240.9	2177.6	2168.1
70°	2060.5	2044.7	2006.7	1962.4	1978.2	2041.5	2092.1	1962.4	1800.9	1737.6	1725.0
72.5°	1781.9	1785.1	1759.8	1725.0	1712.3	1668.0	1623.7	1528.7	1430.6	1364.2	1370.5
75°	1383.1	1389.5	1405.3	1392.6	1357.8	1310.3	1262.9	1142.6	1063.5	1000.2	987.5
77.5°	807.1	838.7	889.4	876.7	883.1	816.6	797.6	680.5	607.7	563.4	553.9
80°	455.8	474.8	496.9	512.7	493.8	465.3	424.1	360.8	338.7	307.0	300.7
82.5°	275.4	294.4	303.8	316.5	310.2	272.2	240.5	199.4	180.4	164.6	161.4
85°	139.3	151.9	161.4	167.7	148.8	123.4	110.8	88.6	76.0	66.5	66.5
87.5°	34.8	38.0	44.3	38.0	34.8	15.8	12.7	3.2	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)