

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: P642736

Luminaire Tested: GWS-SA6D-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

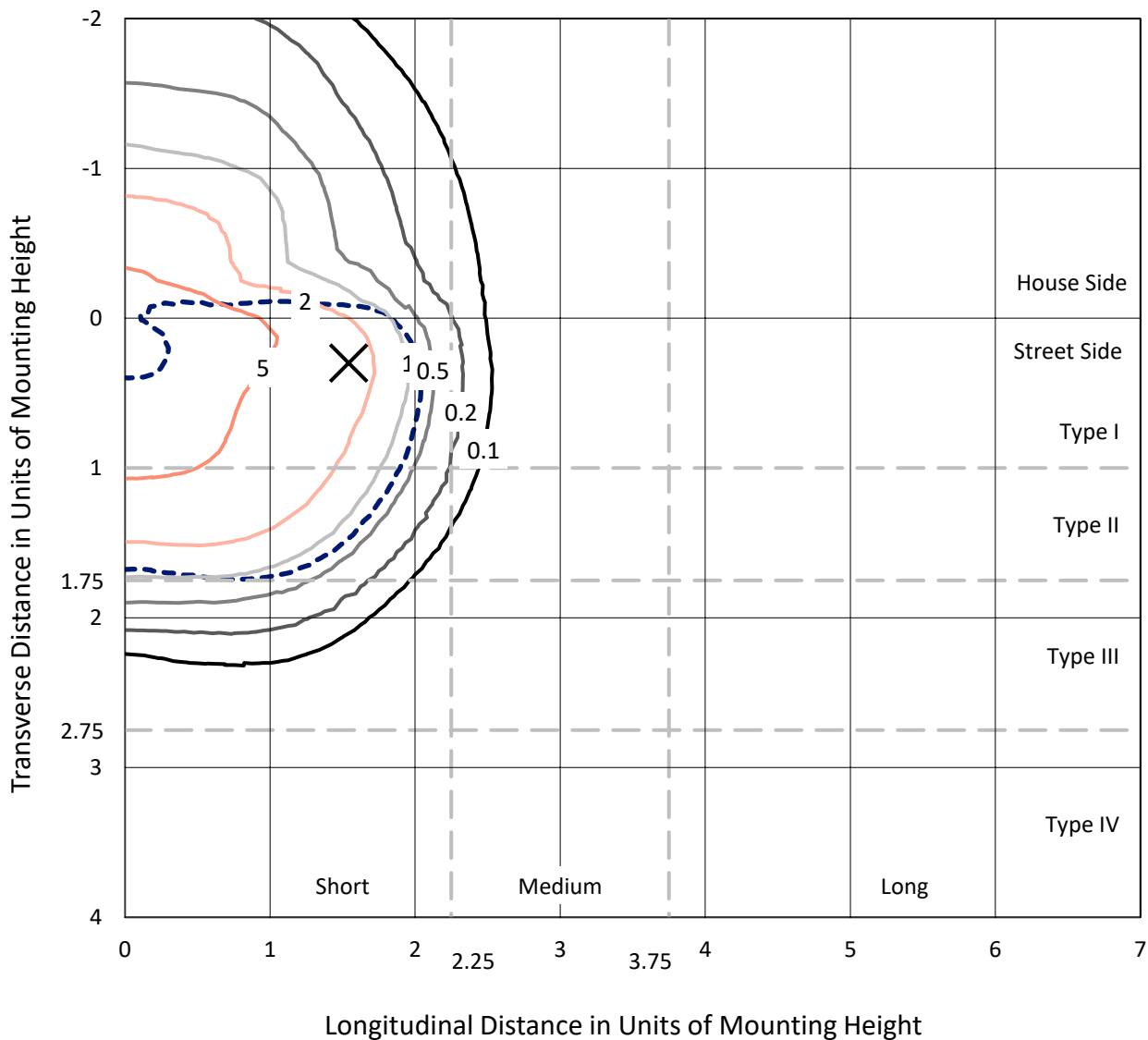
Lumens per Lamp: N/A  
Luminaire Lumens: 31406.1 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

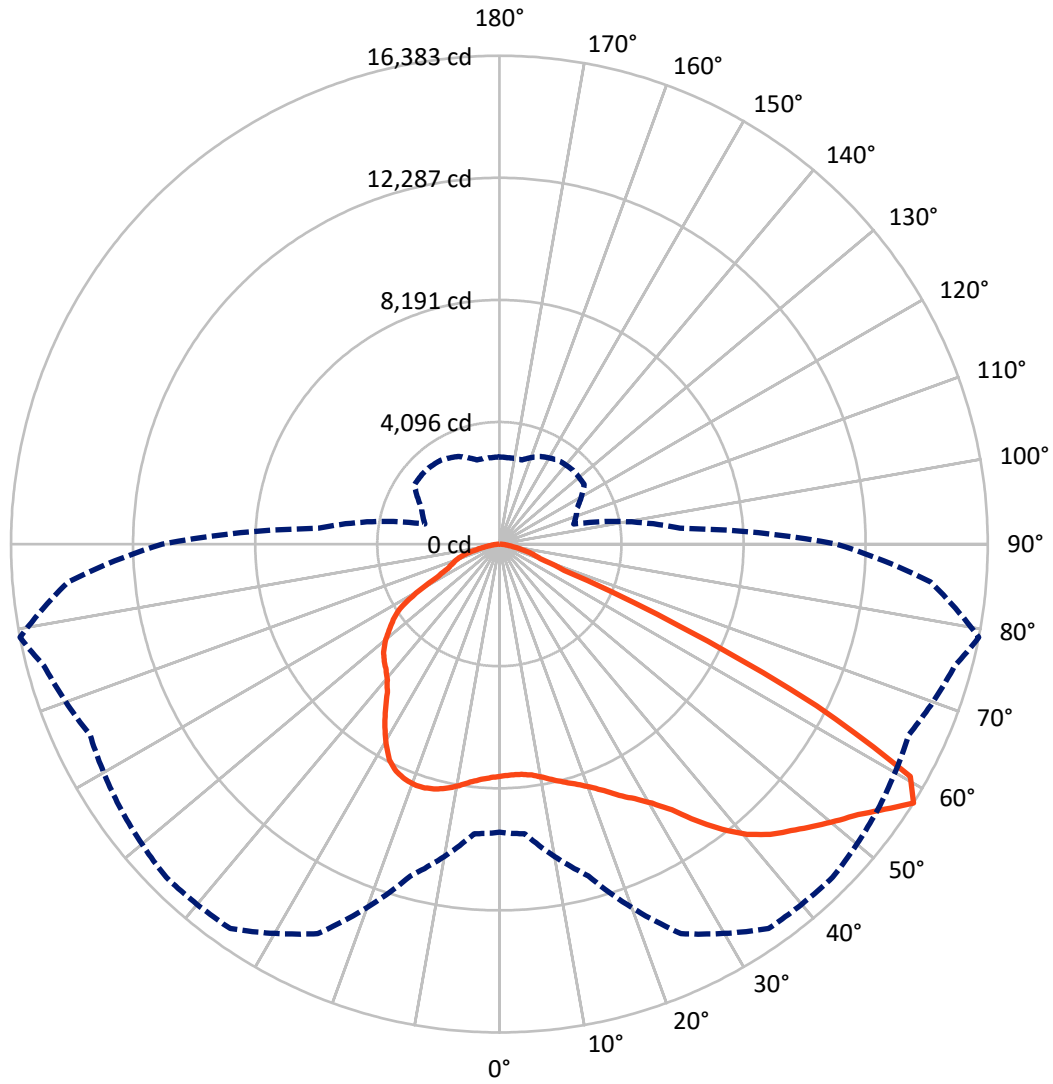
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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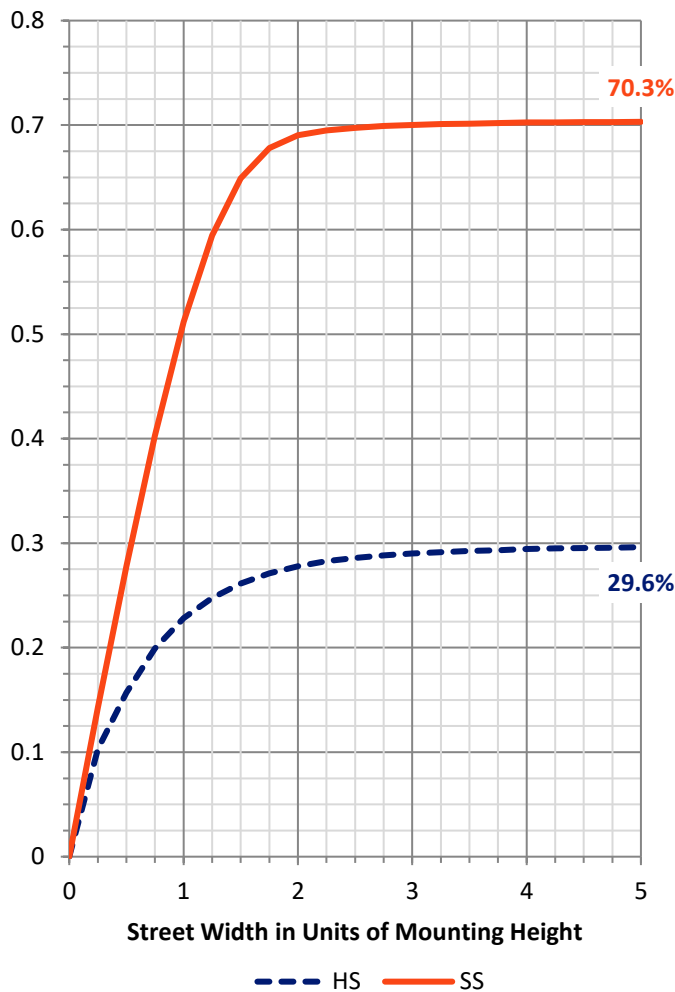
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9335.6	0.0	9335.6
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	22070.5	0.0	22070.5
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	31406.1	0.0	31406.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	720.8	2.3
10°-20°	2003.1	6.4
20°-30°	3395.3	10.8
30°-40°	5196.9	16.5
40°-50°	6929.6	22.1
50°-60°	8003.2	25.5
60°-70°	4158.7	13.2
70°-80°	884.0	2.8
80°-90°	114.5	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°	31406.1	100.0
0°-180°	31406.1	100.0

**Coefficient of Utilization**



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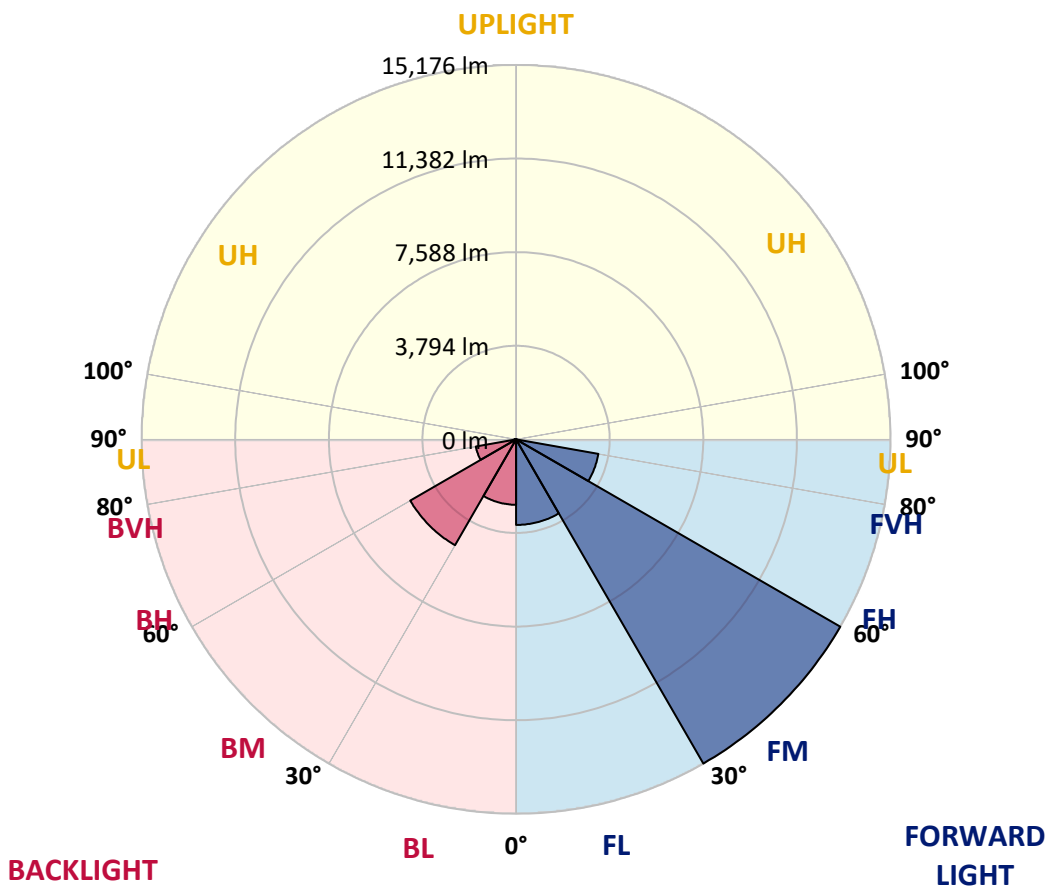
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3467.9	11.0			
FM (30°-60°)	15176.3	48.3			
FH (60°-80°)	3386.4	10.8			G2/5000
FVH (80°-90°)	39.9	0.1			G1/100
BL (0°-30°)	2651.2	8.4	B4/5000		
BM (30°-60°)	4953.4	15.8	B3/5000		
BH (60°-80°)	1656.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	74.6	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°	75°	79°	85°
0°	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2
2.5°	7428.8	7413.4	7418.5	7439.1	7516.1	7572.6	7631.7	7685.6	7736.9	7752.3	7765.2
5°	7164.3	7136.1	7143.8	7177.1	7267.0	7362.0	7467.3	7595.7	7719.0	7760.0	7814.0
7.5°	6976.9	6971.7	6984.6	7035.9	7130.9	7220.8	7356.9	7539.2	7752.3	7821.7	7916.7
10°	6727.8	6717.5	6768.9	6874.1	7030.8	7174.6	7336.4	7552.1	7849.9	7952.6	8099.0
12.5°	6530.0	6524.9	6578.8	6725.2	6925.5	7154.0	7377.4	7618.8	7980.9	8122.1	8301.9
15°	6645.6	6622.5	6625.1	6727.8	6907.5	7177.1	7480.2	7739.5	8111.8	8291.6	8522.7
17.5°	6982.0	6940.9	6910.1	6928.1	7030.8	7310.7	7636.8	7901.3	8263.3	8473.9	8756.4
20°	7446.8	7423.7	7338.9	7282.4	7305.5	7552.1	7883.3	8129.8	8461.1	8697.3	9000.3
22.5°	8070.8	8014.3	7898.7	7808.8	7739.5	7932.1	8237.7	8450.8	8735.8	8982.3	9298.2
25°	8843.7	8761.5	8579.2	8438.0	8289.0	8486.7	8758.9	8920.7	9113.3	9341.8	9642.3
27.5°	9632.0	9562.7	9359.8	9169.8	8984.9	9108.2	9431.7	9524.2	9503.6	9670.5	9927.3
30°	10471.7	10384.4	10191.8	9986.4	9747.6	9827.2	10117.3	10163.6	9945.3	10084.0	10258.6
32.5°	11357.6	11272.9	11106.0	10867.1	10597.5	10628.3	10707.9	10751.6	10543.6	10623.2	10756.7
35°	12258.9	12179.3	12009.8	11773.6	11575.9	11388.4	11188.1	11362.7	11242.1	11396.1	11385.9
37.5°	13083.2	13003.6	12898.3	12716.0	12377.0	12007.3	11545.1	11760.8	11948.2	12143.4	12110.0
40°	13640.4	13586.5	13612.2	13583.9	13147.4	12415.6	11719.7	11955.9	12466.9	12800.7	12782.8
42.5°	14120.6	14066.7	14215.6	14323.5	13809.9	12793.0	11804.4	12030.4	12798.2	13319.4	13293.8
45°	14333.7	14318.3	14564.9	14906.4	14415.9	13193.6	12022.7	12184.5	13049.8	13717.5	13619.9
47.5°	14079.5	14133.5	14618.8	15196.5	14919.2	13668.7	12469.5	12510.6	13378.5	14148.9	13874.1
50°	13573.7	13691.8	14346.6	15204.2	15286.4	14205.4	13088.3	12985.6	13820.2	14608.5	14007.6
52.5°	12836.7	12959.9	14028.2	15145.2	15497.0	14826.8	13912.6	13766.3	14377.4	15068.2	14030.7
55°	11144.5	11311.4	13298.9	15011.7	15702.4	15391.7	14842.2	14544.3	15096.4	15699.8	14259.3
57.5°	9668.0	9755.3	11521.9	14418.5	15743.5	15807.7	15504.7	15150.3	15810.3	16382.9	14516.1
60°	7095.0	7115.5	8705.0	11930.2	14482.7	15566.3	15450.8	14924.4	15471.3	15835.9	13340.0
62.5°	4008.4	4011.0	5279.5	7962.9	10818.4	12687.8	12759.7	12294.9	11835.2	11943.1	9285.4
65°	1504.8	1646.0	2411.2	3913.4	6237.3	7490.4	7788.3	7896.1	7130.9	6655.9	4979.1
67.5°	1006.6	1040.0	1407.2	2013.2	2775.8	3204.7	3584.7	3595.0	2629.5	2344.4	1961.8
70°	767.8	801.2	1106.7	1440.6	1407.2	1299.3	1404.6	1366.1	1412.3	1450.8	1491.9
72.5°	572.6	606.0	857.7	1016.9	844.8	832.0	942.4	1047.7	1145.3	1186.3	1250.5
75°	380.0	405.7	577.8	544.4	467.3	552.1	688.2	793.5	850.0	898.7	947.5
77.5°	241.4	259.4	308.1	249.1	259.4	323.5	400.6	495.6	549.5	598.3	624.0
80°	110.4	107.8	105.3	118.1	146.4	190.0	241.4	297.9	339.0	359.5	374.9
82.5°	43.7	48.8	53.9	64.2	79.6	102.7	136.1	174.6	208.0	213.1	226.0
85°	18.0	20.5	23.1	28.2	35.9	46.2	56.5	79.6	100.1	107.8	115.6
87.5°	0.0	0.0	0.0	0.0	2.6	5.1	7.7	12.8	23.1	25.7	28.2
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°	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2	7783.2
2.5°	7834.5	7801.1	7857.6	7896.1	7932.1	7893.6	7880.7	7847.4	7842.2	7842.2	7860.2
5°	7906.4	7883.3	7942.4	7965.5	7962.9	7878.2	7826.8	7760.0	7726.7	7726.7	7731.8
7.5°	8034.8	8022.0	8055.3	8019.4	7937.2	7765.2	7595.7	7454.5	7359.5	7310.7	7326.1
10°	8247.9	8232.5	8204.3	8070.8	7834.5	7477.6	7130.9	6874.1	6720.1	6632.8	6637.9
12.5°	8455.9	8430.3	8330.1	8034.8	7549.5	6982.0	6527.5	6239.9	6070.4	5967.7	5944.6
15°	8684.5	8617.7	8402.0	7849.9	7084.7	6376.0	5900.9	5590.2	5407.9	5346.3	5343.7
17.5°	8902.7	8784.6	8394.3	7521.2	6527.5	5741.7	5264.1	5071.5	5040.7	5068.9	5076.6
20°	9123.6	8933.6	8309.6	7066.7	5865.0	5110.0	4863.5	4943.1	5058.7	5135.7	5153.7
22.5°	9352.1	9056.8	8117.0	6481.3	5166.5	4683.8	4786.5	4961.1	5104.9	5207.6	5217.9
25°	9608.9	9172.4	7829.4	5764.8	4606.7	4565.6	4768.5	4953.4	5107.5	5225.6	5246.1
27.5°	9755.3	9174.9	7426.2	5027.9	4349.9	4519.4	4724.8	4899.5	5053.5	5181.9	5205.0
30°	9899.1	9105.6	6786.8	4429.5	4275.5	4465.5	4650.4	4812.2	4958.5	5084.3	5112.6
32.5°	10101.9	9041.4	6049.9	4085.5	4231.8	4414.1	4565.6	4709.4	4822.4	4878.9	4894.3
35°	10353.6	8959.2	5266.7	3936.5	4203.6	4373.1	4506.6	4583.6	4437.2	4406.4	4439.8
37.5°	10705.4	8882.2	4486.0	3872.3	4185.6	4357.6	4475.8	4278.0	4098.3	4026.4	4052.1
40°	11085.4	8838.5	3957.1	3821.0	4193.3	4373.1	4347.4	4054.6	3795.3	3643.8	3638.6
42.5°	11409.0	8771.8	3618.1	3787.6	4213.8	4432.1	4172.8	3856.9	3471.7	3381.9	3384.4
45°	11627.2	8602.3	3438.4	3751.6	4231.8	4445.0	4090.6	3584.7	3310.0	3253.5	3250.9
47.5°	11717.1	8294.2	3322.8	3695.1	4229.3	4339.7	3923.7	3471.7	3197.0	3181.6	3191.8
50°	11658.0	7788.3	3204.7	3584.7	4167.6	4229.3	3731.1	3371.6	3119.9	3204.7	3266.3
52.5°	11439.8	7133.5	3063.4	3433.2	4057.2	4103.4	3633.5	3310.0	3063.4	3176.4	3225.2
55°	11383.3	6601.9	2883.7	3235.5	3892.9	3880.0	3530.8	3279.1	3024.9	2981.3	2989.0
57.5°	11308.8	6083.2	2585.8	2881.1	3476.9	3497.4	3433.2	3243.2	2924.8	2911.9	2924.8
60°	9824.6	4663.2	2305.9	2485.7	2855.5	2965.9	3322.8	3176.4	2763.0	2709.1	2706.5
62.5°	6417.1	2824.6	2051.7	2167.3	2326.5	2454.9	3030.1	2983.8	2585.8	2552.4	2575.6
65°	3451.2	2013.2	1866.8	1936.2	2023.5	2121.0	2511.4	2657.7	2336.7	2218.6	2221.2
67.5°	1764.1	1712.8	1728.2	1777.0	1843.7	1892.5	2026.0	2154.4	1992.7	1892.5	1889.9
70°	1509.9	1551.0	1574.1	1602.3	1646.0	1638.3	1651.1	1674.2	1661.4	1612.6	1610.0
72.5°	1286.5	1350.7	1355.8	1361.0	1376.4	1340.4	1317.3	1278.8	1281.4	1289.1	1291.6
75°	978.4	1040.0	1055.4	1047.7	1063.1	1016.9	986.1	947.5	901.3	893.6	898.7
77.5°	636.8	685.6	708.7	703.6	711.3	675.3	659.9	618.9	564.9	544.4	544.4
80°	385.2	413.4	431.4	436.5	444.2	418.6	392.9	356.9	333.8	310.7	310.7
82.5°	233.7	251.6	264.5	264.5	272.2	243.9	223.4	197.7	187.5	166.9	166.9
85°	118.1	131.0	136.1	133.5	128.4	105.3	97.6	84.7	79.6	69.3	69.3
87.5°	28.2	35.9	35.9	25.7	25.7	12.8	7.7	2.6	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)