

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: P641294

Luminaire Tested: GWS-SA5F-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641294  
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-SA5F-750-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

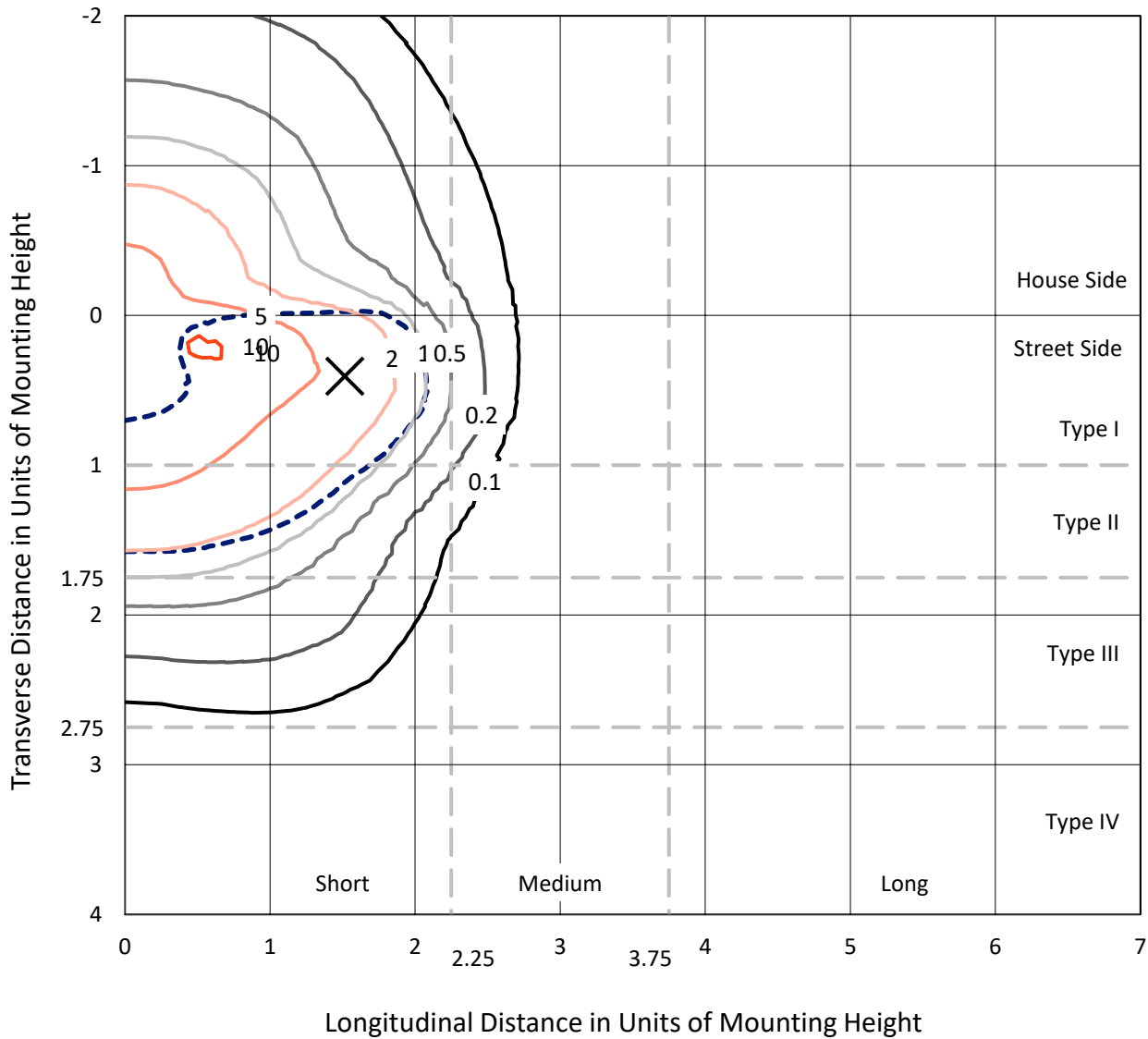
Lumens per Lamp: N/A  
Luminaire Lumens: 35595.6 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

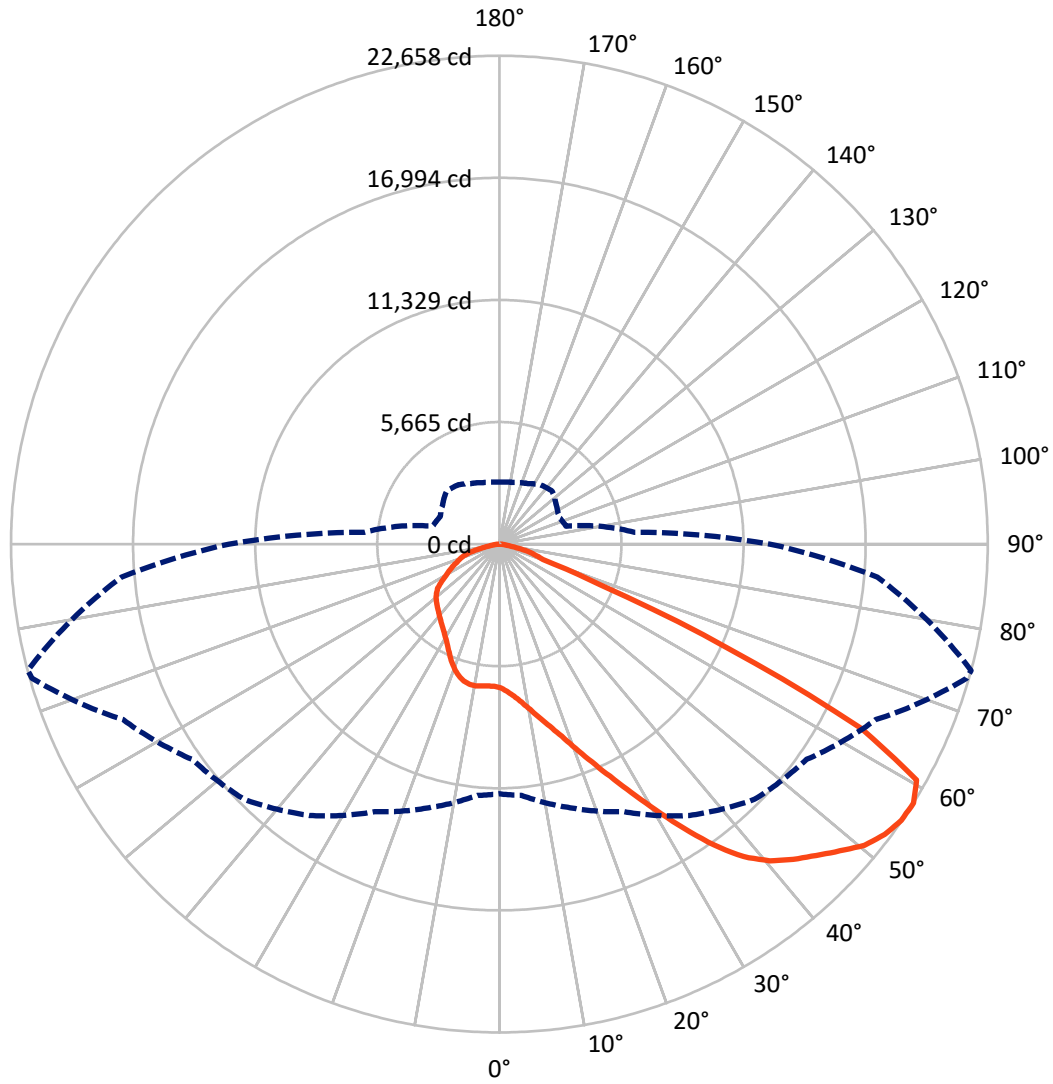
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 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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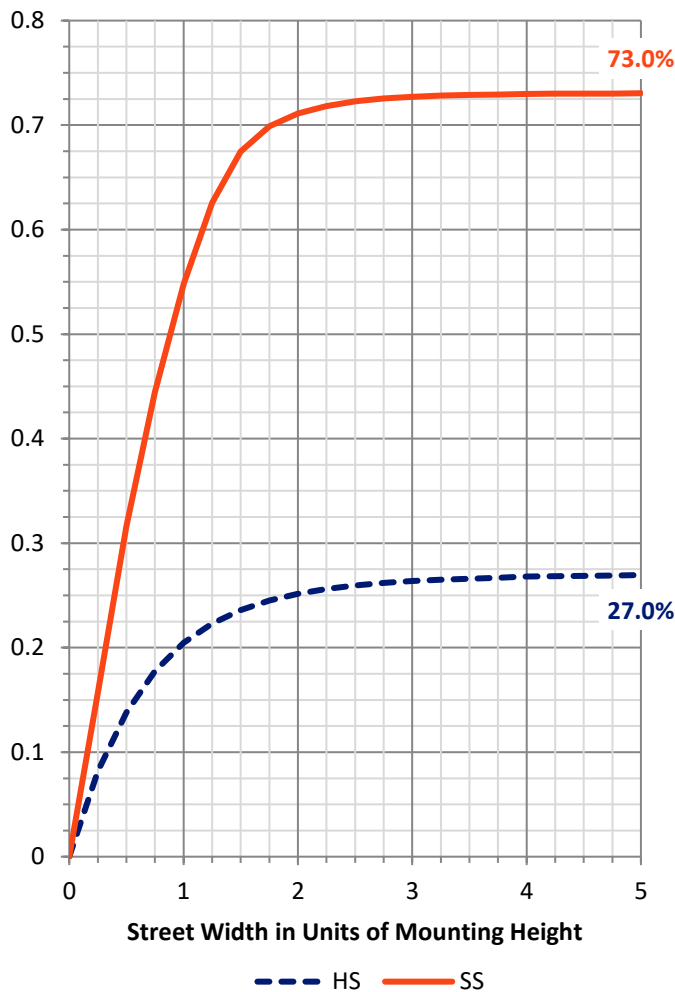
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9629.3	0.0	9629.3
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	25966.3	0.0	25966.3
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	35595.6	0.0	35595.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.1	1.9
10°-20°	2123.9	6.0
20°-30°	3766.6	10.6
30°-40°	5766.0	16.2
40°-50°	8028.7	22.6
50°-60°	9199.3	25.8
60°-70°	4726.8	13.3
70°-80°	1190.0	3.3
80°-90°	127.2	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°	35595.6	100.0
0°-180°	35595.6	100.0

**Coefficient of Utilization**



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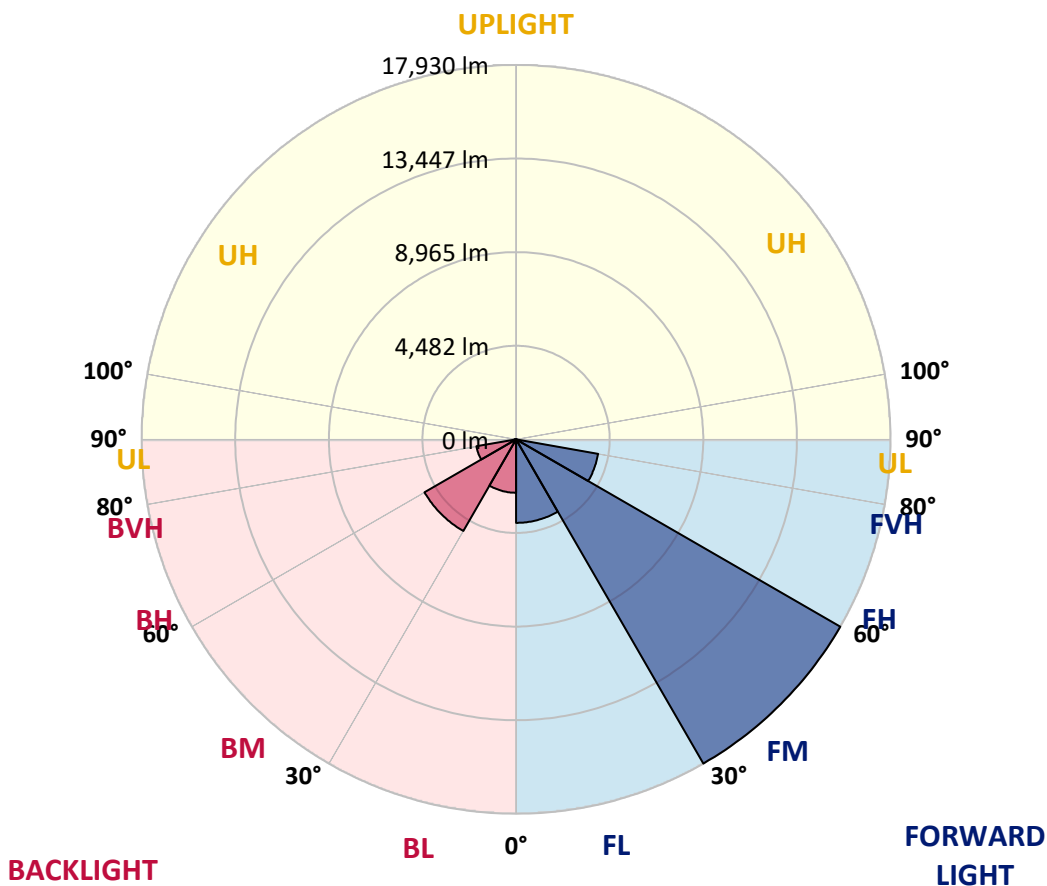
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3999.4	11.2			
FM (30°-60°)	17929.9	50.4			
FH (60°-80°)	3989.9	11.2			G2/5000
FVH (80°-90°)	47.1	0.1			G1/100
BL (0°-30°)	2558.1	7.2	B4/5000		
BM (30°-60°)	5064.2	14.2	B4/8500		
BH (60°-80°)	1926.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	80.1	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°	55°	65°	74°	75°	85°
0°	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2
2.5°	7162.0	7180.4	7162.0	7192.6	7131.4	7103.9	7036.5	6935.5	6856.0	6843.7	6755.0
5°	7719.1	7758.9	7734.4	7722.1	7639.5	7578.3	7477.3	7275.3	7110.0	7085.5	6911.1
7.5°	8077.2	8104.7	8104.7	8113.9	8083.3	8012.9	7905.8	7667.0	7434.4	7397.7	7134.5
10°	8196.6	8218.0	8257.8	8334.3	8395.5	8416.9	8346.5	8117.0	7832.3	7795.6	7428.3
12.5°	8224.1	8248.6	8309.8	8450.6	8618.9	8772.0	8784.2	8615.9	8297.6	8257.8	7768.1
15°	8276.1	8300.6	8383.3	8557.7	8805.6	9099.5	9280.0	9163.7	8811.8	8768.9	8153.7
17.5°	8270.0	8297.6	8420.0	8652.6	8986.2	9411.6	9760.6	9809.5	9445.3	9371.9	8591.4
20°	8254.7	8279.2	8410.8	8695.4	9108.6	9693.2	10323.7	10577.8	10186.0	10118.7	9102.5
22.5°	8377.1	8404.7	8505.7	8741.4	9172.9	9910.5	10844.1	11456.2	11064.4	10969.5	9690.2
25°	8652.6	8692.4	8753.6	8915.8	9289.2	10103.4	11376.6	12450.9	12050.0	11936.7	10329.9
27.5°	9078.0	9127.0	9212.7	9289.2	9549.4	10348.2	11906.1	13565.0	13164.1	13044.7	11006.3
30°	9598.4	9662.6	9772.8	9824.8	10002.4	10709.4	12481.5	14712.8	14480.2	14314.9	11768.4
32.5°	10317.6	10406.4	10510.4	10525.7	10632.9	11257.2	13050.8	15851.4	15848.3	15732.0	12634.6
35°	11254.2	11349.1	11370.5	11391.9	11444.0	12010.2	13739.5	16888.9	17289.9	17155.2	13577.3
37.5°	12276.5	12414.2	12447.9	12353.0	12426.4	12916.1	14513.8	17721.4	18544.8	18400.9	14489.3
40°	13369.1	13424.2	13516.0	13366.1	13457.9	13953.7	15272.9	18254.0	19481.3	19328.3	15208.6
42.5°	14152.7	14253.7	14391.4	14336.3	14388.3	14841.3	15805.4	18511.1	20148.6	19995.5	15725.9
45°	15003.5	15034.2	15122.9	15110.7	15141.3	15563.7	16188.0	18624.4	20745.4	20607.7	16166.6
47.5°	15744.2	15790.1	15848.3	15781.0	15713.6	15989.1	16500.2	18722.3	21434.1	21268.8	16628.8
50°	16457.4	16497.2	16567.6	16371.7	16120.7	16191.1	16653.3	18857.0	22079.9	21963.6	16993.0
52.5°	16589.0	16631.8	16962.4	17002.2	16680.8	16432.9	16922.6	19153.9	22459.4	22385.9	17124.6
55°	14933.1	15009.7	15667.7	16423.7	17216.4	17136.9	17354.2	19309.9	22609.4	22627.7	17360.3
57.5°	11590.9	11701.1	12662.1	13699.7	15367.8	16748.1	17409.3	19270.2	22557.3	22658.4	17602.1
60°	7602.8	7667.0	8805.6	9968.7	11698.0	13607.9	15582.0	18554.0	22095.2	22239.0	17540.9
62.5°	4591.0	4664.5	5579.7	6461.1	7480.3	8756.7	10568.6	14911.7	18520.3	18841.7	14048.6
65°	3204.6	3302.5	4104.4	4829.8	5181.8	4918.5	5353.2	8328.2	11538.8	11673.5	8585.3
67.5°	2323.1	2390.4	3048.5	3911.6	4300.3	3473.9	2647.5	3688.1	5025.7	5074.6	3541.2
70°	1521.2	1597.7	2194.5	2978.1	3510.6	2815.8	1980.3	1995.6	2114.9	2139.4	2056.8
72.5°	835.6	881.5	1355.9	1977.2	2075.2	1683.4	1545.7	1658.9	1741.5	1741.5	1763.0
75°	431.6	471.3	554.0	651.9	786.6	921.3	1114.1	1282.4	1371.2	1377.3	1368.1
77.5°	220.4	235.7	296.9	321.4	352.0	410.1	532.6	682.5	762.1	792.7	786.6
80°	104.1	110.2	125.5	146.9	180.6	229.6	287.7	342.8	391.8	397.9	431.6
82.5°	55.1	61.2	67.3	79.6	97.9	122.4	168.3	202.0	232.6	238.7	266.3
85°	21.4	24.5	27.5	30.6	42.8	52.0	70.4	94.9	116.3	116.3	137.7
87.5°	0.0	0.0	0.0	0.0	3.1	6.1	12.2	15.3	21.4	21.4	36.7
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°	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2	6666.2
2.5°	6733.5	6644.8	6605.0	6540.7	6488.7	6430.5	6384.6	6350.9	6329.5	6317.3	6305.0
5°	6843.7	6709.1	6601.9	6473.4	6384.6	6298.9	6228.5	6179.6	6155.1	6136.7	6124.5
7.5°	7015.1	6834.5	6632.5	6433.6	6277.5	6139.8	6051.0	5999.0	5965.3	5953.1	5943.9
10°	7250.8	6999.8	6666.2	6350.9	6118.3	5968.4	5907.1	5882.7	5885.7	5879.6	5876.5
12.5°	7517.1	7174.3	6657.0	6204.0	5946.9	5858.2	5861.2	5901.0	5946.9	5959.2	5962.2
15°	7804.8	7345.7	6568.3	6014.3	5812.3	5821.4	5901.0	5995.9	6081.6	6115.3	6121.4
17.5°	8117.0	7489.5	6406.0	5806.1	5702.1	5800.0	5946.9	6103.0	6228.5	6283.6	6298.9
20°	8465.9	7612.0	6176.5	5601.1	5598.0	5760.2	5974.5	6179.6	6338.7	6412.2	6424.4
22.5°	8836.2	7688.5	5894.9	5411.3	5490.9	5708.2	5953.1	6167.3	6335.6	6409.1	6424.4
25°	9209.6	7713.0	5585.8	5236.9	5380.7	5625.6	5849.0	6020.4	6179.6	6243.8	6256.1
27.5°	9558.6	7642.6	5291.9	5086.9	5279.7	5503.1	5653.1	5744.9	5855.1	5904.1	5913.3
30°	9913.6	7501.8	5044.0	4967.5	5166.5	5334.8	5402.1	5408.3	5451.1	5451.1	5457.2
32.5°	10271.7	7293.6	4826.7	4851.2	5025.7	5135.9	5145.0	5074.6	5022.6	4936.9	4933.8
35°	10684.9	7082.5	4649.2	4719.6	4860.4	4927.7	4900.2	4765.5	4640.0	4499.2	4493.1
37.5°	11067.5	6865.1	4499.2	4584.9	4673.7	4722.7	4658.4	4496.2	4392.1	4248.2	4226.8
40°	11382.7	6669.3	4355.4	4444.1	4487.0	4529.8	4425.8	4294.2	4309.5	4229.9	4226.8
42.5°	11566.4	6479.5	4220.7	4288.0	4315.6	4346.2	4254.4	4156.4	4239.1	4177.9	4180.9
45°	11701.1	6314.2	4098.3	4122.8	4190.1	4236.0	4150.3	4040.1	4058.5	3822.8	3767.7
47.5°	11854.1	6222.4	3982.0	3957.5	4076.9	4156.4	4024.8	3865.7	3755.5	3522.9	3501.4
50°	12016.3	6188.7	3859.5	3792.2	3936.1	4012.6	3859.5	3660.6	3516.7	3391.3	3379.0
52.5°	12071.4	6185.7	3706.5	3593.3	3737.1	3844.2	3715.7	3513.7	3342.3	3219.9	3213.7
55°	12288.7	6274.4	3510.6	3320.9	3455.5	3675.9	3581.0	3290.3	3152.5	3097.4	3091.3
57.5°	12542.7	6289.7	3201.5	3024.0	3210.7	3470.8	3351.5	3100.5	2950.5	2883.2	2877.1
60°	12438.7	5913.3	2870.9	2797.5	3002.5	3278.0	3167.8	2950.5	2776.1	2711.8	2705.7
62.5°	9479.0	4174.8	2629.1	2601.6	2779.1	2999.5	2978.1	2751.6	2586.3	2540.4	2534.3
65°	5702.1	2932.1	2396.5	2393.5	2519.0	2730.1	2757.7	2574.0	2399.6	2335.3	2335.3
67.5°	2818.9	2243.5	2133.3	2118.0	2197.6	2347.6	2463.9	2313.9	2167.0	2105.8	2096.6
70°	1992.5	1977.2	1940.5	1897.6	1912.9	1974.2	2023.1	1897.6	1741.5	1680.3	1668.1
72.5°	1723.2	1726.2	1701.7	1668.1	1655.8	1613.0	1570.1	1478.3	1383.4	1319.2	1325.3
75°	1337.5	1343.6	1359.0	1346.7	1313.0	1267.1	1221.2	1104.9	1028.4	967.2	954.9
77.5°	780.5	811.1	860.1	847.8	853.9	789.7	771.3	658.1	587.7	544.8	535.6
80°	440.7	459.1	480.5	495.8	477.5	449.9	410.1	348.9	327.5	296.9	290.8
82.5°	266.3	284.6	293.8	306.1	299.9	263.2	232.6	192.8	174.5	159.2	156.1
85°	134.7	146.9	156.1	162.2	143.9	119.4	107.1	85.7	73.5	64.3	64.3
87.5°	33.7	36.7	42.8	36.7	33.7	15.3	12.2	3.1	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)