

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: P641302

Luminaire Tested: GWS-SA5F-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641302
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-SA5F-750-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36440.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

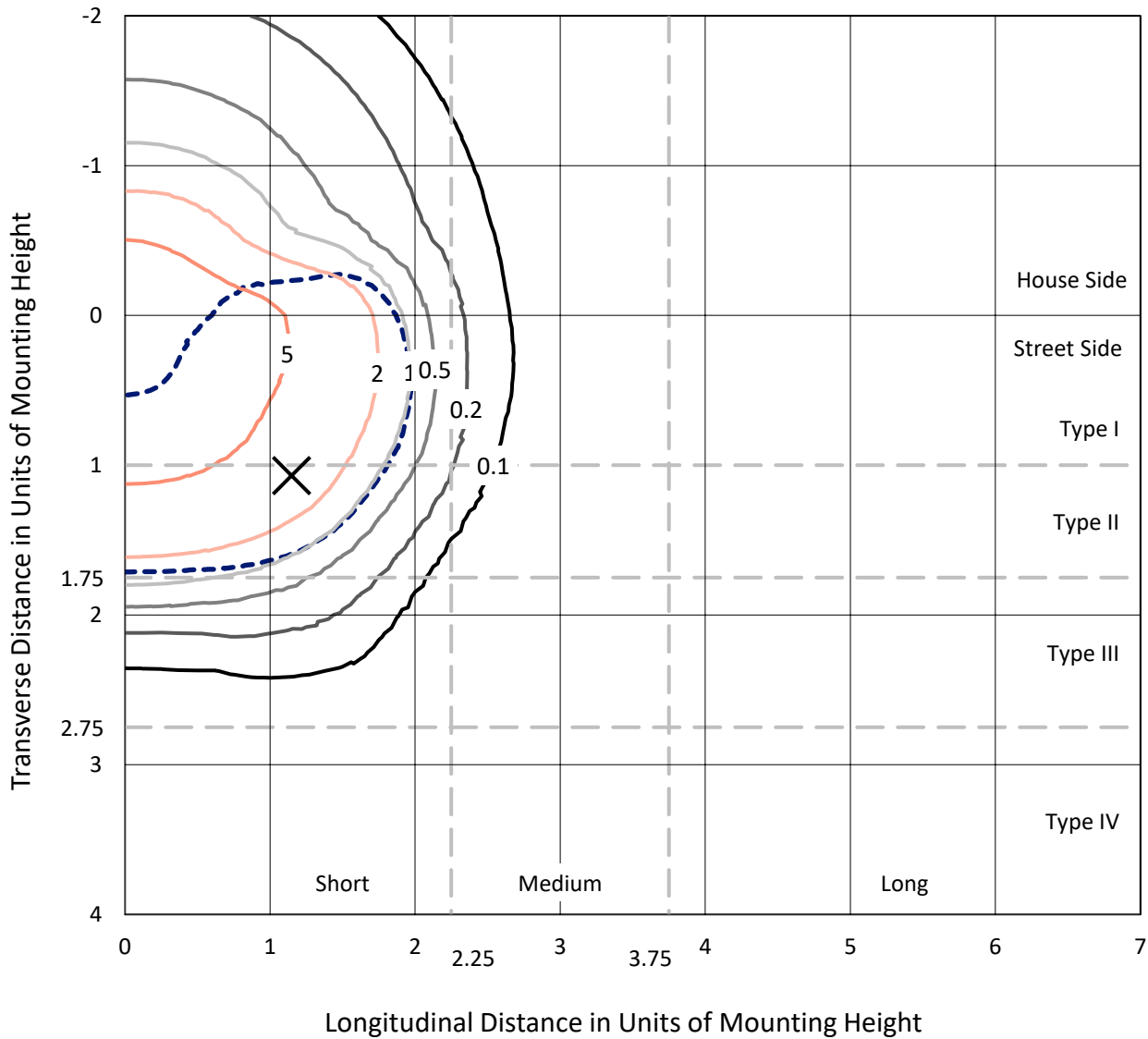
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

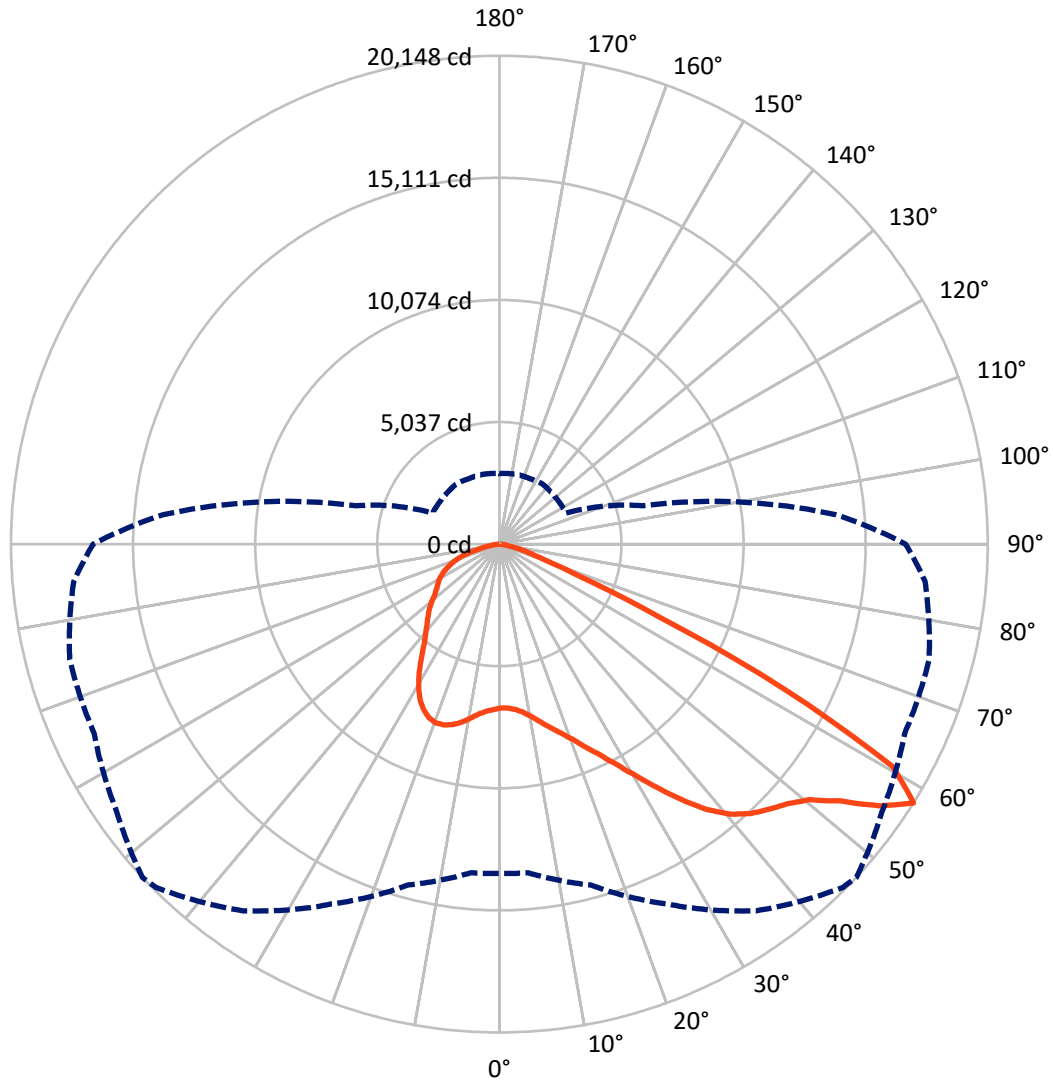
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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
House Side	Lumens	11533.3	0.0	11533.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	24907.0	0.0	24907.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	36440.3	0.0	36440.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.5	1.8
10°-20°	2192.3	6.0
20°-30°	3947.5	10.8
30°-40°	5962.2	16.4
40°-50°	8028.8	22.0
50°-60°	9647.7	26.5
60°-70°	4698.6	12.9
70°-80°	1157.5	3.2
80°-90°	139.1	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°	36440.3	100.0
0°-180°	36440.3	100.0

Coefficient of Utilization

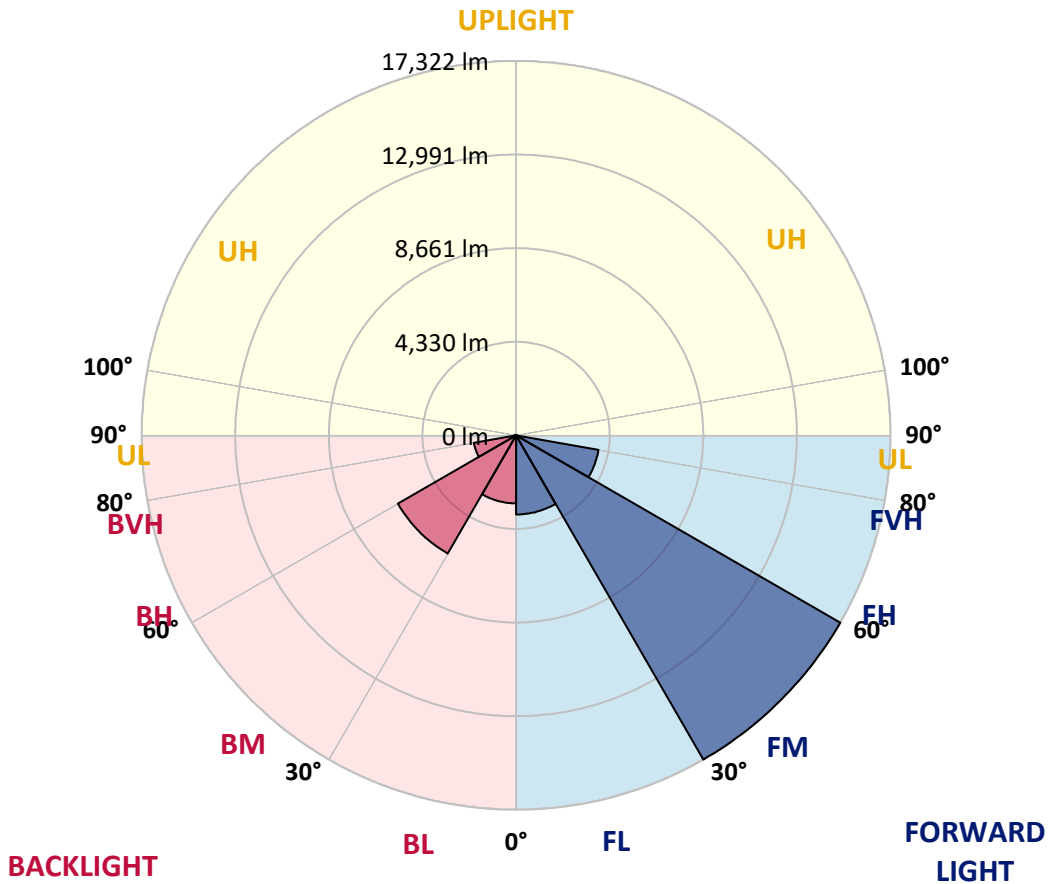


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3660.2	10.0			
FM (30°-60°)	17322.0	47.5			
FH (60°-80°)	3872.5	10.6			G2/5000
FVH (80°-90°)	52.3	0.1			G1/100
BL (0°-30°)	3146.1	8.6	B4/5000		
BM (30°-60°)	6316.7	17.3	B4/8500		
BH (60°-80°)	1983.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	86.8	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°	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9
2.5°	6745.7	6742.6	6742.6	6761.0	6761.0	6767.1	6776.3	6785.5	6788.5	6773.2	6739.5
5°	6819.1	6819.1	6819.1	6834.4	6834.4	6840.5	6852.8	6855.8	6852.8	6828.3	6794.6
7.5°	6935.4	6935.4	6938.5	6956.8	6972.2	6981.3	7002.8	6999.7	6990.5	6950.7	6907.9
10°	7125.2	7134.4	7143.5	7165.0	7195.6	7217.0	7232.3	7232.3	7220.1	7158.9	7103.8
12.5°	7394.5	7406.8	7415.9	7434.3	7458.8	7495.5	7529.2	7529.2	7513.9	7437.4	7354.7
15°	7709.8	7722.0	7718.9	7725.1	7771.0	7823.0	7850.6	7868.9	7875.0	7767.9	7639.4
17.5°	8070.9	8083.2	8070.9	8052.6	8058.7	8141.3	8190.3	8257.6	8297.4	8153.6	7948.5
20°	8398.4	8386.2	8386.2	8398.4	8416.8	8517.8	8591.2	8701.4	8750.4	8575.9	8257.6
22.5°	8744.3	8771.8	8759.6	8759.6	8833.0	9001.4	9090.1	9234.0	9286.0	9059.5	8631.0
25°	9191.1	9215.6	9209.5	9215.6	9301.3	9540.0	9628.8	9895.1	9947.1	9622.7	9044.2
27.5°	9680.8	9720.6	9739.0	9732.9	9870.6	10182.8	10293.0	10663.3	10758.2	10253.2	9484.9
30°	10317.4	10360.3	10375.6	10369.5	10531.7	10957.1	11082.6	11505.0	11639.6	11000.0	10045.0
32.5°	11055.1	11097.9	11143.8	11162.2	11370.3	11804.9	11985.5	12423.2	12616.0	11863.1	10721.4
35°	11786.5	11823.3	11912.0	12055.9	12340.5	12784.3	12943.5	13375.0	13561.7	12759.8	11538.6
37.5°	12594.6	12619.0	12695.6	12894.5	13304.6	13727.0	13886.2	14299.3	14320.8	13626.0	12463.0
40°	13479.1	13479.1	13463.8	13659.7	14088.2	14513.6	14651.3	14890.0	14764.6	14293.2	13362.8
42.5°	14228.9	14216.7	14228.9	14412.6	14730.9	15076.7	15196.1	15150.2	14991.0	14804.3	14176.9
45°	14905.3	14914.5	15024.7	15165.5	15330.8	15535.8	15606.2	15346.1	15202.2	15214.5	14828.8
47.5°	15364.4	15373.6	15630.7	15866.4	15967.4	16031.7	16001.1	15639.9	15566.4	15704.2	15330.8
50°	15425.7	15474.6	15918.4	16402.0	16653.0	16662.2	16576.5	16135.7	16114.3	16270.4	15600.1
52.5°	15437.9	15486.9	16040.8	16913.1	17565.0	17702.8	17604.8	17145.7	16922.3	16766.2	15930.7
55°	15392.0	15447.1	16059.2	17255.9	18504.7	19055.6	19064.8	18415.9	17702.8	17598.7	16873.3
57.5°	13589.3	13610.7	14559.5	16383.6	18467.9	20028.9	20148.2	19266.8	18452.6	18354.7	17629.3
60°	9466.6	9552.3	10583.7	12992.4	15514.4	18265.9	18651.6	18394.5	17849.7	17136.6	15125.7
62.5°	4740.9	4814.4	5848.9	8126.0	10700.0	12873.1	13286.3	13558.7	13687.2	12922.0	10299.1
65°	2041.5	2096.5	2739.3	4245.1	6057.0	7106.8	7250.7	7578.2	8380.0	7477.2	5549.0
67.5°	1365.0	1401.8	1729.3	2589.3	3568.7	3636.0	3614.6	3685.0	3859.5	3186.1	2506.7
70°	1046.7	1077.3	1297.7	1897.6	2564.8	2194.5	2078.2	1885.4	2047.6	2087.4	2032.3
72.5°	759.0	783.5	948.8	1294.7	1606.8	1401.8	1383.4	1481.4	1701.7	1762.9	1729.3
75°	489.7	501.9	602.9	710.1	829.4	899.8	936.6	1114.1	1337.5	1383.4	1343.6
77.5°	327.5	336.7	394.8	456.0	471.3	474.4	486.6	566.2	719.3	804.9	795.8
80°	171.4	171.4	192.8	192.8	220.4	263.2	275.5	327.5	397.9	440.7	443.8
82.5°	67.3	70.4	82.6	91.8	110.2	134.7	143.9	171.4	208.1	238.7	266.3
85°	27.5	30.6	33.7	39.8	49.0	61.2	64.3	73.5	97.9	122.4	137.7
87.5°	0.0	0.0	3.1	3.1	6.1	9.2	9.2	12.2	15.3	27.5	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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CATALOG NUMBER: GWS-SA5F-750-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9	6757.9
2.5°	6779.3	6739.5	6779.3	6791.6	6825.2	6837.5	6816.1	6813.0	6813.0	6782.4	6773.2
5°	6825.2	6788.5	6828.3	6846.7	6895.6	6926.2	6932.4	6956.8	6972.2	6959.9	6956.8
7.5°	6938.5	6892.6	6935.4	6963.0	7027.2	7076.2	7097.6	7152.7	7192.5	7186.4	7183.3
10°	7137.4	7076.2	7125.2	7171.1	7241.5	7299.6	7302.7	7333.3	7373.1	7360.9	7354.7
12.5°	7367.0	7308.8	7363.9	7409.8	7492.5	7516.9	7477.2	7464.9	7471.0	7455.7	7443.5
15°	7648.6	7565.9	7614.9	7666.9	7712.8	7685.3	7599.6	7565.9	7562.9	7541.4	7529.2
17.5°	7930.1	7826.1	7862.8	7890.3	7868.9	7783.2	7676.1	7617.9	7590.4	7547.6	7535.3
20°	8208.7	8077.0	8070.9	8049.5	7951.6	7795.5	7651.6	7535.3	7464.9	7406.8	7385.3
22.5°	8527.0	8343.3	8251.5	8153.6	7939.3	7685.3	7468.0	7302.7	7189.5	7116.0	7091.5
25°	8869.8	8609.6	8419.8	8224.0	7816.9	7449.6	7146.6	6920.1	6785.5	6705.9	6678.3
27.5°	9209.5	8851.4	8566.7	8233.1	7572.0	7109.9	6702.8	6396.8	6262.1	6197.8	6176.4
30°	9668.6	9172.8	8741.2	8113.8	7250.7	6638.5	6130.5	5821.3	5732.6	5686.7	5668.3
32.5°	10198.1	9579.8	8973.8	7862.8	6840.5	6087.6	5552.0	5337.8	5276.6	5187.8	5184.7
35°	10895.9	10161.3	9194.2	7492.5	6323.3	5496.9	5108.2	4955.2	4845.0	4704.2	4692.0
37.5°	11710.0	10886.7	9313.5	7021.1	5720.3	5010.3	4777.7	4606.3	4428.8	4242.1	4217.6
40°	12551.7	11734.5	9322.7	6464.1	5129.6	4688.9	4493.0	4269.6	4049.2	3841.1	3813.6
42.5°	13436.2	12524.2	9160.5	5821.3	4646.1	4410.4	4211.4	3929.9	3682.0	3541.2	3525.9
45°	14225.9	13160.8	8793.2	5144.9	4288.0	4177.8	3923.7	3620.7	3489.1	3388.1	3366.7
47.5°	14847.2	13583.1	8297.4	4538.9	3997.2	3939.1	3608.5	3452.4	3351.4	3259.6	3238.2
50°	15153.3	13678.0	7651.6	4046.2	3727.9	3657.5	3431.0	3311.6	3244.3	3170.8	3152.5
52.5°	15532.8	13785.1	7094.6	3633.0	3464.7	3369.8	3284.1	3189.2	3140.2	3094.3	3079.0
55°	16405.1	14189.2	6800.8	3302.4	3213.7	3170.8	3158.6	3079.0	3063.7	3033.1	3005.6
57.5°	16760.1	13929.0	6106.0	3033.1	3014.7	3020.9	3051.5	2978.0	2962.7	2926.0	2907.6
60°	13479.1	10528.6	4134.9	2800.5	2849.5	2889.2	2919.9	2846.4	2825.0	2818.9	2794.4
62.5°	8637.1	6476.3	2886.2	2583.2	2656.6	2705.6	2724.0	2653.6	2638.3	2687.2	2690.3
65°	4496.1	3528.9	2341.4	2350.6	2411.8	2485.2	2522.0	2497.5	2491.4	2543.4	2546.5
67.5°	2295.5	2157.8	2041.5	2075.1	2124.1	2219.0	2304.7	2411.8	2448.5	2454.6	2457.7
70°	1955.8	1894.5	1836.4	1857.8	1909.8	1961.9	2044.5	2096.5	2035.3	2020.0	2013.9
72.5°	1665.0	1619.1	1591.5	1616.0	1643.6	1634.4	1609.9	1634.4	1643.6	1646.6	1649.7
75°	1294.7	1261.0	1239.6	1242.6	1242.6	1209.0	1163.0	1135.5	1104.9	1080.4	1080.4
77.5°	792.7	798.8	820.3	817.2	814.1	801.9	756.0	731.5	658.0	636.6	636.6
80°	453.0	462.2	483.6	489.7	489.7	474.4	428.5	400.9	367.3	352.0	348.9
82.5°	275.5	287.7	299.9	306.1	309.1	290.8	251.0	229.5	211.2	195.9	195.9
85°	143.9	150.0	162.2	165.3	156.1	137.7	116.3	107.1	88.8	85.7	85.7
87.5°	39.8	42.8	49.0	39.8	36.7	27.5	15.3	12.2	6.1	3.1	3.1
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)