

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: P639843

Luminaire Tested: GWS-SA5C-760-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-760-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24731.3 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

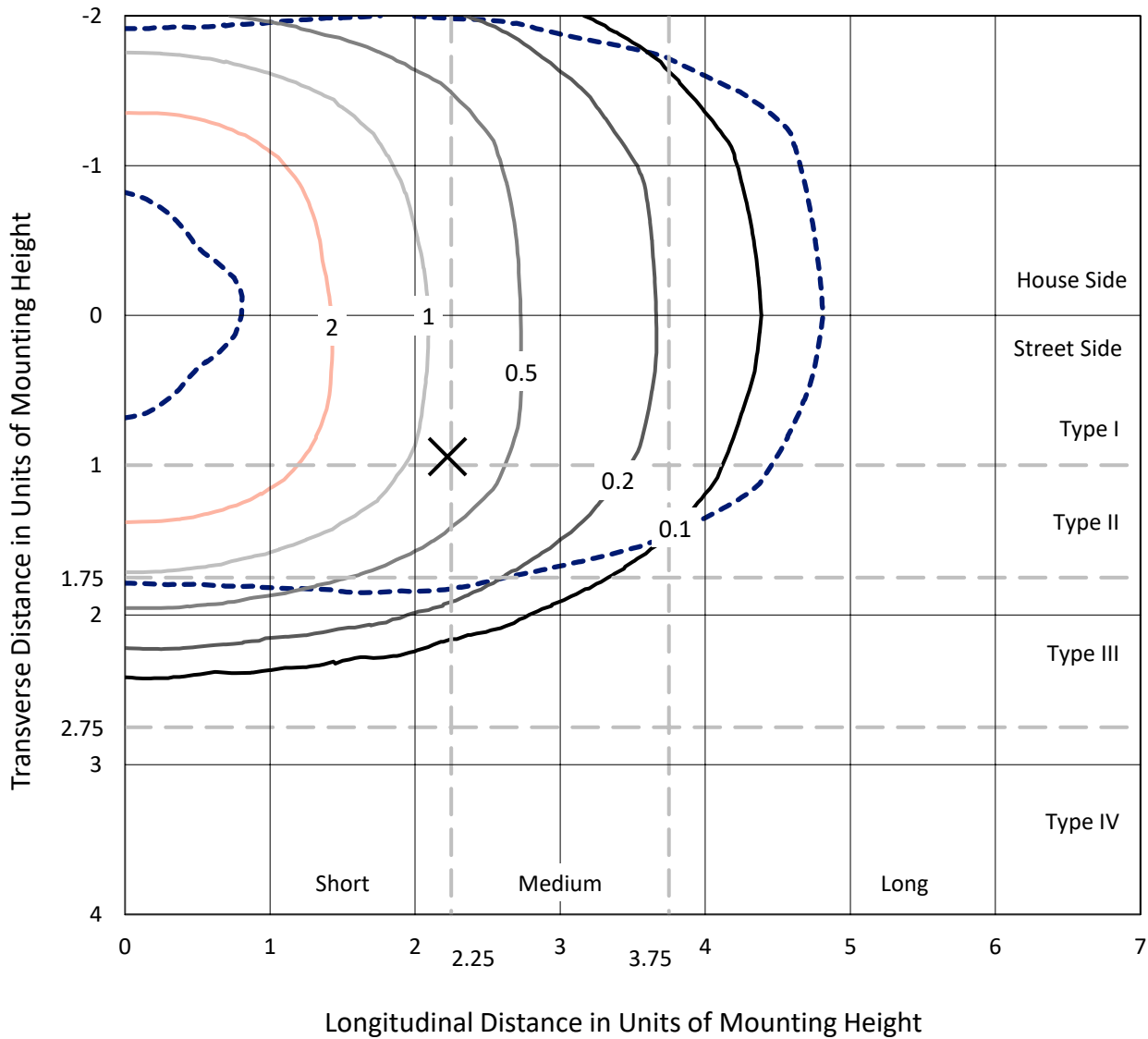
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

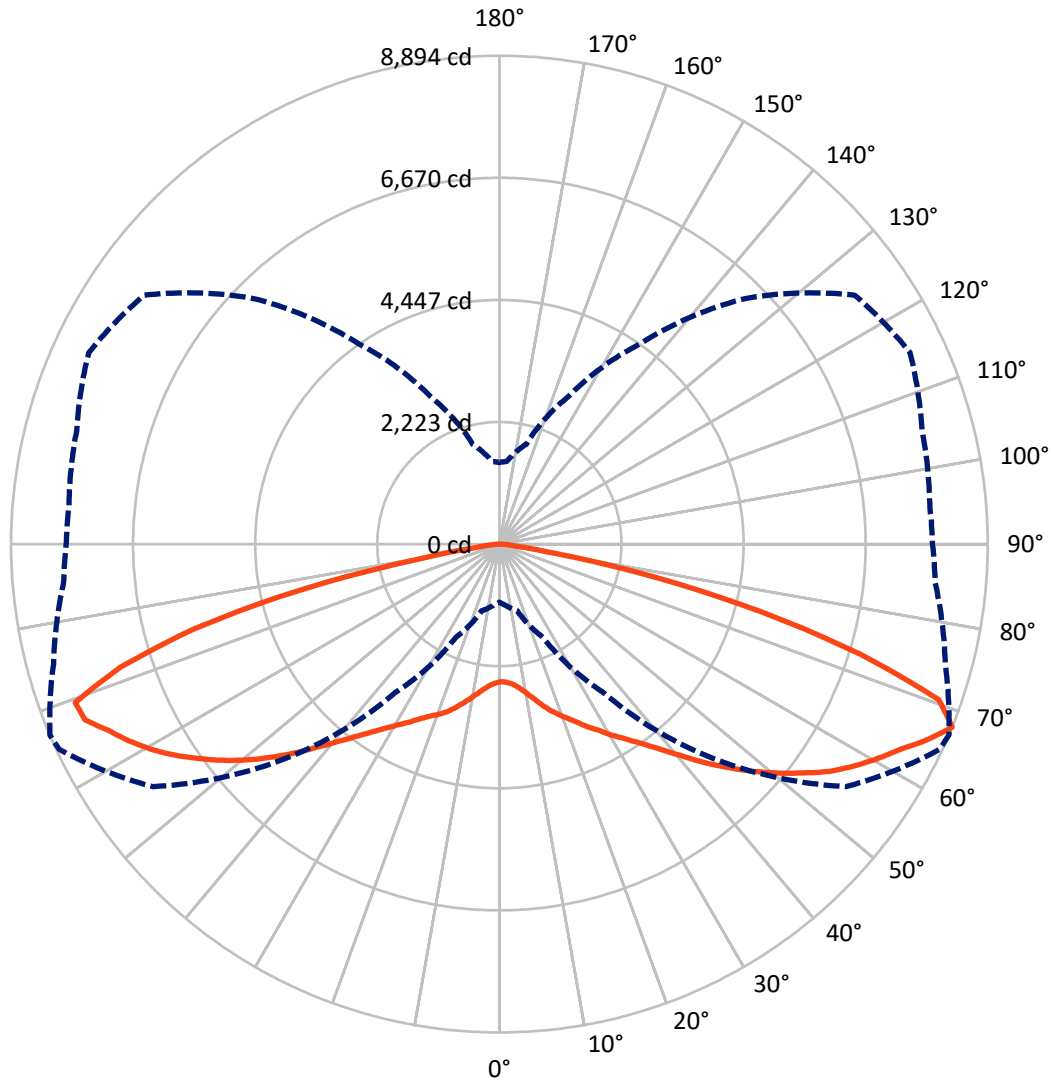
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12229.2	0.0	12229.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	12502.1	0.0	12502.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	24731.3	0.0	24731.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	1.0
10°-20°	830.0	3.4
20°-30°	1628.5	6.6
30°-40°	2774.5	11.2
40°-50°	4455.3	18.0
50°-60°	6053.8	24.5
60°-70°	5790.8	23.4
70°-80°	2753.2	11.1
80°-90°	199.5	0.8
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°	24731.3	100.0
0°-180°	24731.3	100.0

Coefficient of Utilization



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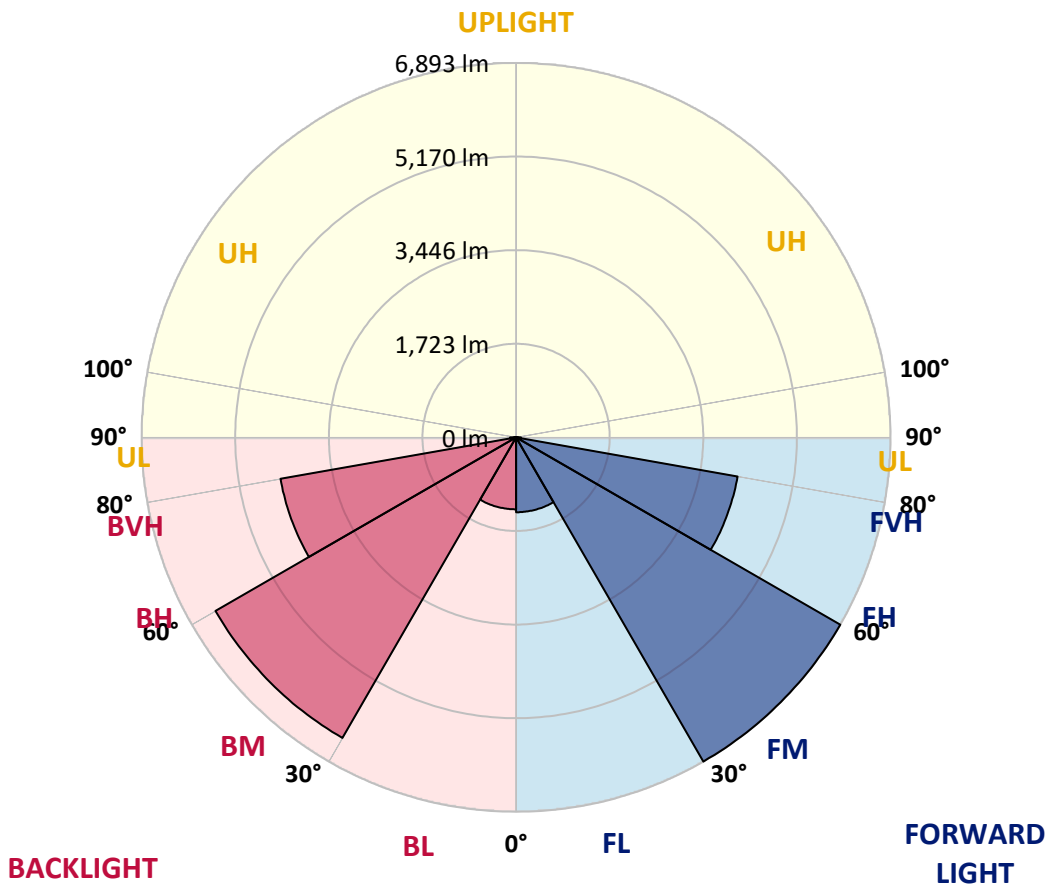
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1379.0	5.6			
FM (30°-60°)	6892.8	27.9			
FH (60°-80°)	4140.7	16.7			G2/5000
FVH (80°-90°)	89.7	0.4			G1/100
BL (0°-30°)	1325.3	5.4	B3/2500		
BM (30°-60°)	6390.7	25.8	B4/8500		
BH (60°-80°)	4403.4	17.8	B4/5000		G4/5000
BVH (80°-90°)	109.8	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
2.5°	2452.5	2456.0	2461.1	2471.5	2481.8	2497.3	2512.8	2511.1	2518.0	2523.1	2528.3
5°	2438.7	2442.2	2450.8	2464.6	2480.1	2505.9	2538.6	2552.4	2562.7	2581.7	2598.9
7.5°	2468.0	2474.9	2487.0	2505.9	2530.0	2562.7	2607.5	2631.6	2647.1	2681.6	2710.9
10°	2507.6	2516.2	2540.3	2576.5	2612.7	2662.6	2719.5	2755.6	2766.0	2810.7	2865.9
12.5°	2545.5	2555.9	2595.5	2660.9	2726.4	2793.5	2860.7	2905.5	2908.9	2969.2	3031.2
15°	2605.8	2614.4	2667.8	2752.2	2852.1	2945.1	3027.8	3058.8	3072.5	3115.6	3193.1
17.5°	2738.4	2748.7	2817.6	2908.9	3014.0	3112.1	3194.8	3220.6	3220.6	3256.8	3320.5
20°	2881.4	2891.7	2983.0	3100.1	3227.5	3327.4	3391.2	3367.0	3358.4	3368.8	3413.5
22.5°	3041.5	3060.5	3148.3	3284.4	3441.1	3563.4	3596.1	3523.8	3499.7	3475.5	3485.9
25°	3246.5	3268.9	3355.0	3499.7	3652.9	3782.1	3801.1	3689.1	3675.3	3590.9	3559.9
27.5°	3482.4	3499.7	3606.4	3749.4	3892.3	4000.8	4021.5	3883.7	3837.2	3720.1	3647.8
30°	3787.3	3802.8	3895.8	4037.0	4161.0	4236.8	4262.6	4073.2	4037.0	3857.9	3745.9
32.5°	4119.7	4126.6	4221.3	4357.3	4467.6	4539.9	4503.7	4283.3	4229.9	4028.4	3875.1
35°	4500.3	4500.3	4622.6	4732.8	4820.6	4841.3	4772.4	4521.0	4459.0	4240.2	4049.1
37.5°	4874.0	4884.4	4998.0	5128.9	5206.4	5203.0	5077.3	4801.7	4731.1	4493.4	4281.6
40°	5278.8	5301.2	5414.8	5561.2	5635.3	5624.9	5432.0	5125.5	5053.1	4772.4	4565.7
42.5°	5650.8	5686.9	5819.6	5969.4	6050.3	6043.4	5841.9	5497.5	5426.9	5110.0	4903.3
45°	5947.0	5984.9	6150.2	6358.6	6487.8	6475.7	6272.5	5883.3	5797.2	5464.8	5237.4
47.5°	6207.1	6246.7	6431.0	6651.4	6856.4	6877.0	6691.0	6272.5	6181.2	5845.4	5588.8
50°	6406.8	6425.8	6632.5	6873.6	7111.3	7226.6	7064.8	6663.5	6553.2	6220.8	5931.5
52.5°	6391.3	6417.2	6672.1	6999.3	7317.9	7507.4	7395.4	7032.0	6925.3	6563.6	6281.1
55°	6076.2	6102.0	6405.1	6882.2	7433.3	7712.3	7700.3	7383.4	7305.9	6913.2	6644.5
57.5°	5616.3	5673.2	5974.6	6489.5	7281.8	7875.9	7924.2	7703.7	7622.8	7255.9	7004.5
60°	4793.1	4868.9	5216.8	5885.0	6796.1	7820.8	8163.6	7974.1	7924.2	7574.5	7330.0
62.5°	3482.4	3537.5	4000.8	4877.5	6076.2	7428.2	8365.1	8253.1	8215.2	7860.4	7624.5
65°	2085.7	2211.4	2583.4	3449.7	4901.6	6687.6	8254.8	8618.2	8578.6	8155.0	7875.9
67.5°	1055.8	1112.6	1259.0	1870.4	3296.4	5533.7	7702.0	8845.6	8893.8	8406.4	7965.5
70°	654.5	670.0	711.3	923.1	1646.5	3635.7	6298.3	8253.1	8489.1	8366.8	7733.0
72.5°	525.3	528.7	535.6	575.2	790.5	1699.9	3981.9	6463.7	6889.1	7813.9	7400.6
75°	435.7	437.5	439.2	451.2	492.6	694.1	1937.6	4441.7	4939.5	6641.1	6861.5
77.5°	349.6	341.0	347.9	353.1	363.4	387.5	668.2	2369.8	2874.5	4359.1	5306.3
80°	227.3	223.9	237.7	242.8	253.2	268.7	356.5	804.3	976.5	1586.2	1687.8
82.5°	122.3	115.4	144.7	139.5	144.7	156.7	210.1	294.5	330.7	478.8	404.7
85°	37.9	37.9	39.6	46.5	56.8	55.1	91.3	144.7	160.2	205.0	151.6
87.5°	6.9	6.9	6.9	6.9	6.9	8.6	18.9	29.3	39.6	70.6	53.4
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°	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2	2504.2
2.5°	2538.6	2523.1	2531.7	2536.9	2535.2	2531.7	2514.5	2511.1	2502.5	2488.7	2485.2
5°	2614.4	2597.2	2598.9	2593.7	2576.5	2554.1	2516.2	2497.3	2481.8	2464.6	2462.8
7.5°	2733.2	2714.3	2709.1	2685.0	2636.8	2585.1	2524.8	2490.4	2464.6	2442.2	2438.7
10°	2884.8	2865.9	2848.6	2791.8	2712.6	2643.7	2564.5	2514.5	2476.6	2449.1	2443.9
12.5°	3053.6	3038.1	2995.0	2912.4	2817.6	2736.7	2655.7	2593.7	2538.6	2497.3	2492.1
15°	3241.3	3206.9	3141.4	3034.6	2945.1	2879.6	2781.5	2697.1	2609.2	2554.1	2542.1
17.5°	3372.2	3342.9	3265.4	3162.1	3091.5	3034.6	2919.2	2798.7	2679.9	2598.9	2581.7
20°	3465.2	3434.2	3346.4	3270.6	3248.2	3200.0	3065.6	2926.1	2788.4	2688.5	2666.1
22.5°	3532.4	3499.7	3410.1	3372.2	3403.2	3394.6	3263.7	3105.3	2941.6	2822.8	2795.2
25°	3596.1	3565.1	3485.9	3499.7	3582.3	3608.2	3466.9	3282.6	3096.6	2957.1	2924.4
27.5°	3656.4	3616.8	3580.6	3656.4	3773.5	3821.7	3671.9	3463.5	3262.0	3119.0	3093.2
30°	3749.4	3702.9	3697.7	3807.9	3993.9	4035.3	3869.9	3661.5	3461.8	3317.1	3284.4
32.5°	3866.5	3823.4	3826.9	3992.2	4207.5	4242.0	4100.7	3906.1	3706.3	3561.7	3516.9
35°	4024.9	3971.6	4000.8	4204.1	4421.1	4484.8	4371.1	4209.2	4014.6	3866.5	3816.6
37.5°	4243.7	4166.2	4226.5	4440.0	4658.7	4753.5	4665.6	4545.1	4352.2	4202.3	4155.8
40°	4522.7	4459.0	4483.1	4719.0	4944.6	5058.3	5003.2	4884.4	4693.2	4536.5	4483.1
42.5°	4853.4	4789.6	4781.0	5032.5	5258.1	5430.3	5376.9	5268.4	5070.4	4891.2	4839.6
45°	5177.1	5118.6	5130.6	5387.3	5640.4	5828.2	5774.8	5647.3	5432.0	5225.4	5184.0
47.5°	5514.7	5466.5	5476.8	5748.9	6027.9	6215.7	6148.5	5993.5	5742.1	5521.6	5471.7
50°	5860.9	5805.8	5821.3	6107.2	6408.6	6586.0	6482.6	6253.6	5976.3	5761.0	5717.9
52.5°	6205.3	6139.9	6179.5	6449.9	6761.6	6902.9	6711.7	6434.4	6165.7	5952.2	5903.9
55°	6601.5	6532.6	6489.5	6778.9	7087.1	7145.7	6883.9	6560.1	6241.5	5998.7	5969.4
57.5°	6963.1	6904.6	6823.6	7113.0	7340.3	7297.3	7016.5	6525.7	6057.2	5745.5	5704.2
60°	7286.9	7237.0	7166.4	7412.7	7516.0	7419.5	6909.8	6117.5	5602.5	5277.0	5258.1
62.5°	7584.9	7531.5	7466.0	7676.2	7662.4	7438.5	6424.1	5490.6	4801.7	4452.1	4421.1
65°	7820.8	7772.6	7753.7	7919.0	7896.6	7068.2	5668.0	4464.1	3508.3	3113.9	3101.8
67.5°	7888.0	7869.1	7970.7	8251.4	7901.8	6324.2	4445.2	2960.6	1884.2	1510.4	1488.0
70°	7636.5	7634.8	7925.9	8327.2	7185.3	4831.0	2623.0	1334.8	947.2	840.5	826.7
72.5°	7309.3	7304.2	7534.9	7183.6	5328.7	2643.7	1104.0	714.7	592.5	563.2	563.2
75°	6772.0	6758.2	6932.1	5464.8	2996.8	995.5	585.6	490.8	465.0	459.8	459.8
77.5°	5519.9	5404.5	5130.6	3377.4	1045.4	489.1	387.5	385.8	370.3	368.6	368.6
80°	1815.3	1815.3	2109.8	1288.3	461.6	301.4	273.8	287.6	272.1	261.8	260.1
82.5°	296.2	408.2	580.4	368.6	249.7	187.7	168.8	179.1	187.7	149.8	149.8
85°	117.1	153.3	223.9	172.2	115.4	75.8	80.9	89.6	79.2	68.9	67.2
87.5°	44.8	55.1	79.2	41.3	24.1	13.8	8.6	8.6	6.9	6.9	6.9
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)