

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: P639678

Luminaire Tested: GWS-SA5C-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639678
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-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24177.3 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

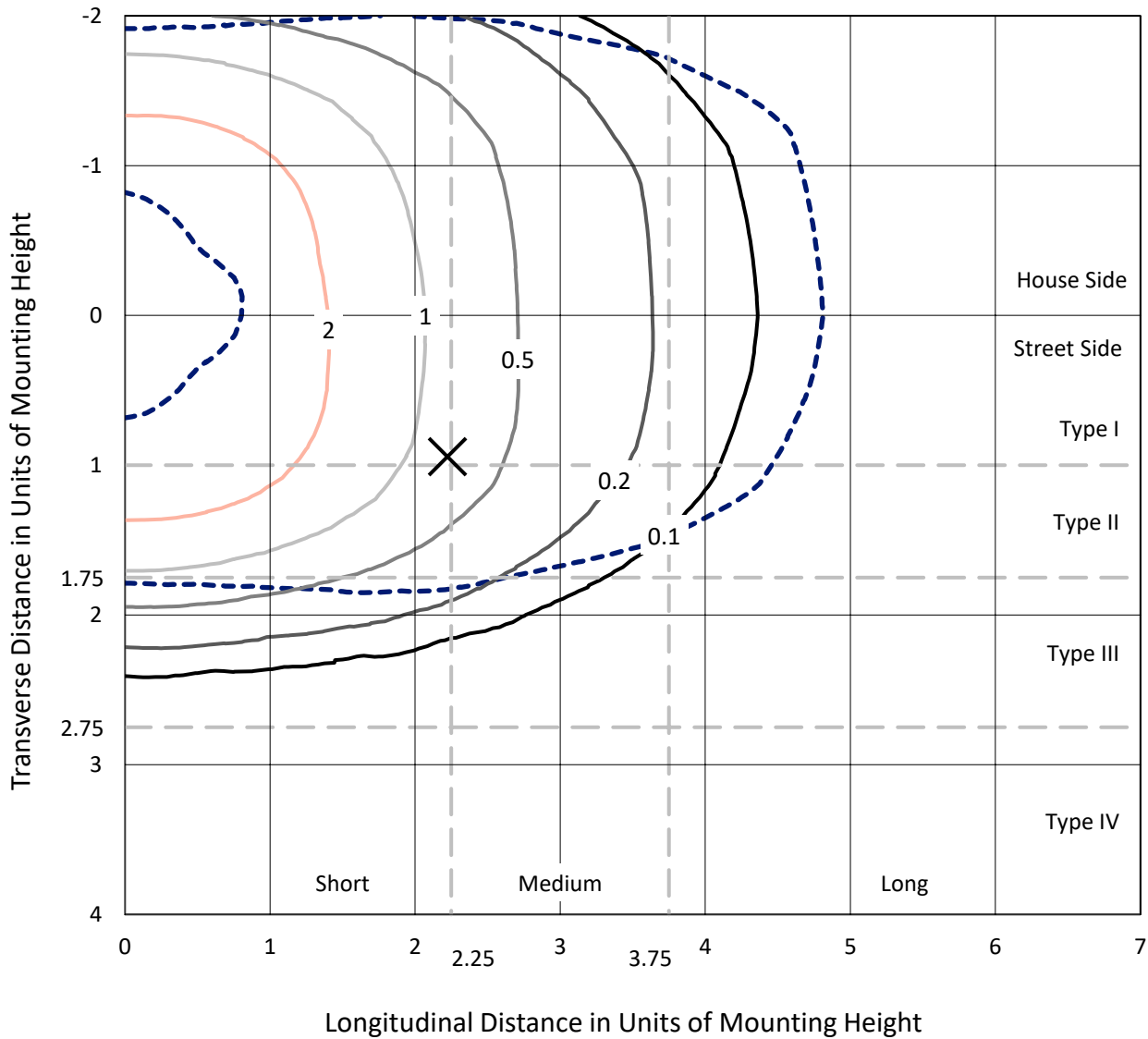
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

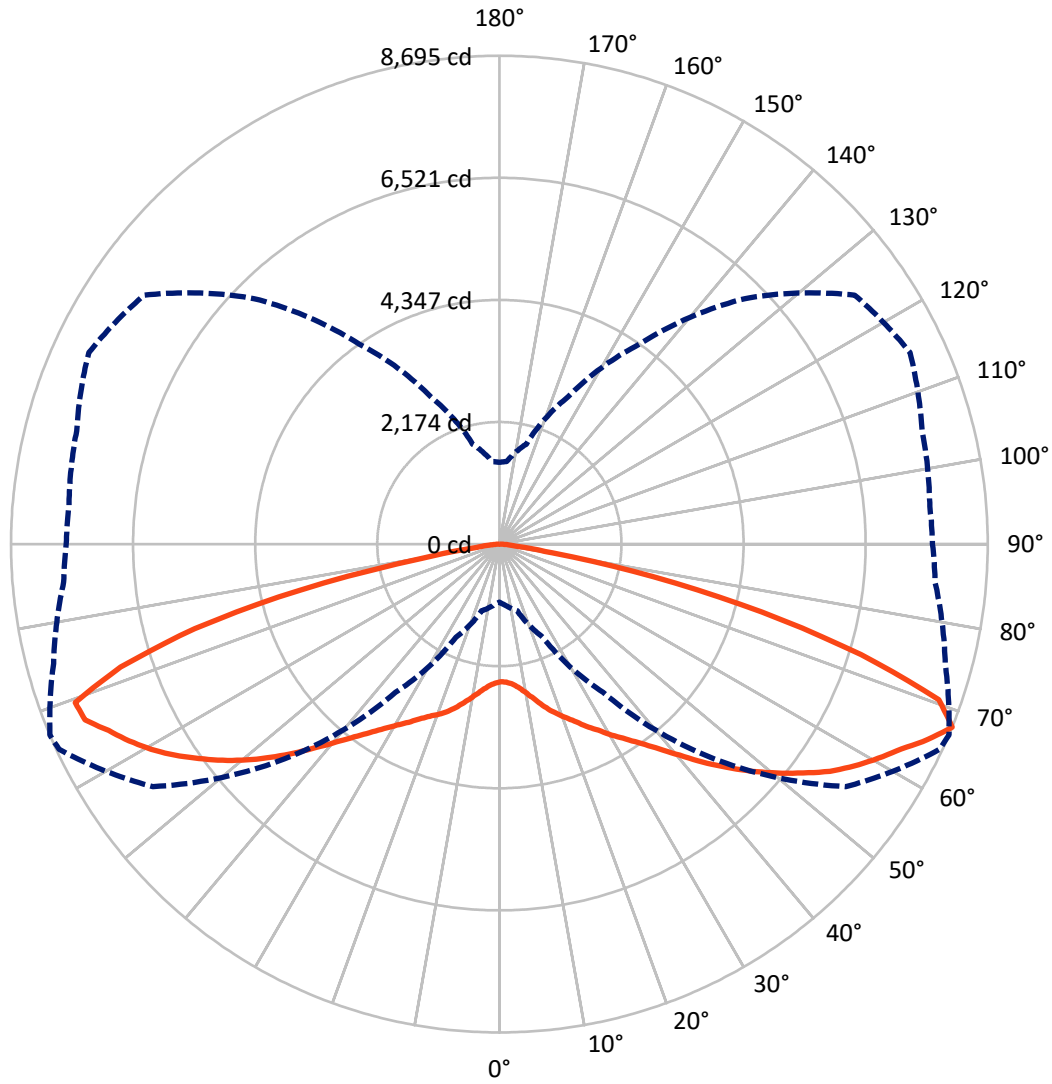
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	11955.2	0.0	11955.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	12222.1	0.0	12222.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	24177.3	0.0	24177.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	1.0
10°-20°	811.5	3.4
20°-30°	1592.0	6.6
30°-40°	2712.3	11.2
40°-50°	4355.5	18.0
50°-60°	5918.2	24.5
60°-70°	5661.1	23.4
70°-80°	2691.5	11.1
80°-90°	195.0	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°	24177.3	100.0
0°-180°	24177.3	100.0

Coefficient of Utilization



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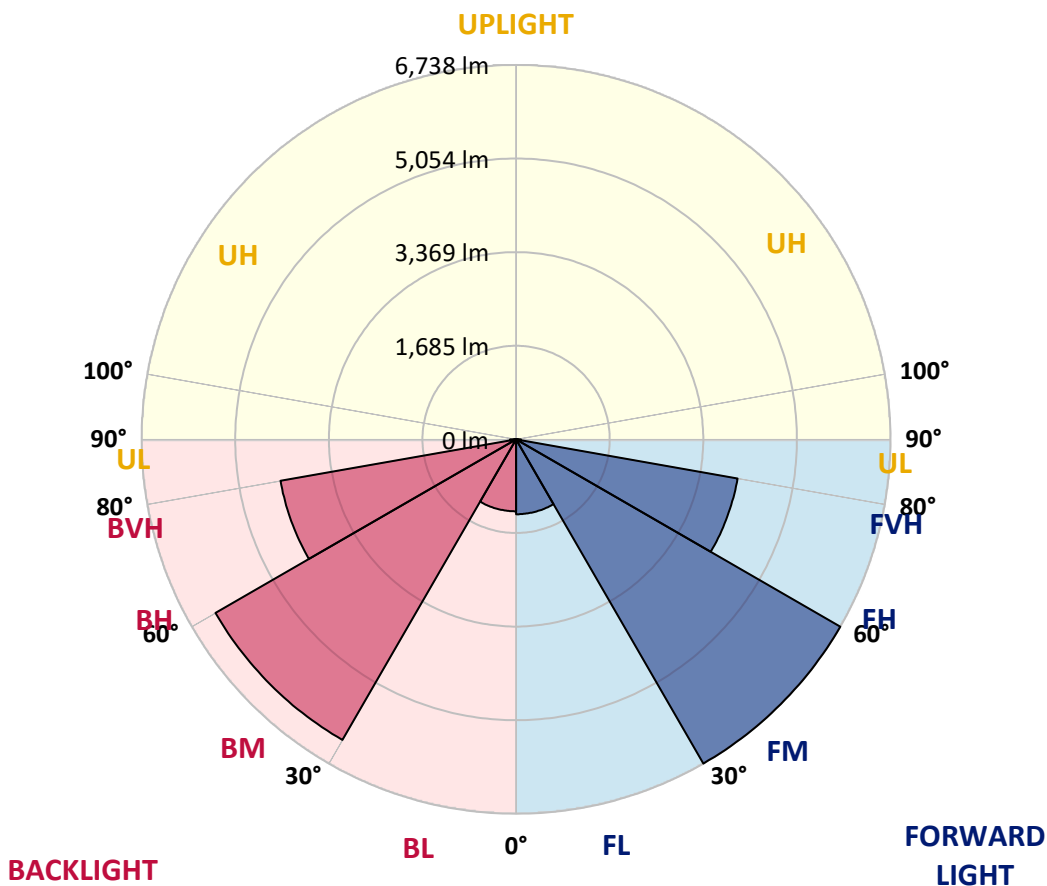
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.1	5.6			
FM (30°-60°)	6738.4	27.9			
FH (60°-80°)	4047.9	16.7			G2/5000
FVH (80°-90°)	87.7	0.4			G1/100
BL (0°-30°)	1295.6	5.4	B3/2500		
BM (30°-60°)	6247.5	25.8	B4/8500		
BH (60°-80°)	4304.7	17.8	B4/5000		G4/5000
BVH (80°-90°)	107.4	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°	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1
2.5°	2397.6	2400.9	2406.0	2416.1	2426.2	2441.4	2456.5	2454.8	2461.6	2466.6	2471.7
5°	2384.1	2387.5	2395.9	2409.4	2424.5	2449.8	2481.8	2495.2	2505.3	2523.9	2540.7
7.5°	2412.7	2419.5	2431.2	2449.8	2473.3	2505.3	2549.1	2572.7	2587.8	2621.5	2650.1
10°	2451.5	2459.9	2483.4	2518.8	2554.2	2603.0	2658.5	2693.9	2704.0	2747.8	2801.7
12.5°	2488.5	2498.6	2537.3	2601.3	2665.3	2730.9	2796.6	2840.4	2843.8	2902.7	2963.3
15°	2547.4	2555.8	2608.0	2690.5	2788.2	2879.1	2959.9	2990.2	3003.7	3045.8	3121.6
17.5°	2677.1	2687.2	2754.5	2843.8	2946.5	3042.4	3123.2	3148.5	3148.5	3183.9	3246.2
20°	2816.8	2826.9	2916.2	3030.6	3155.2	3252.9	3315.2	3291.6	3283.2	3293.3	3337.1
22.5°	2973.4	2991.9	3077.8	3210.8	3364.0	3483.6	3515.5	3444.8	3421.3	3397.7	3407.8
25°	3173.8	3195.6	3279.8	3421.3	3571.1	3697.4	3715.9	3606.5	3593.0	3510.5	3480.2
27.5°	3404.4	3421.3	3525.6	3665.4	3805.1	3911.2	3931.4	3796.7	3751.3	3636.8	3566.1
30°	3702.4	3717.6	3808.5	3946.6	4067.8	4141.9	4167.1	3981.9	3946.6	3771.5	3662.0
32.5°	4027.4	4034.1	4126.7	4259.7	4367.5	4438.2	4402.9	4187.3	4135.1	3938.2	3788.3
35°	4399.5	4399.5	4519.0	4626.8	4712.7	4732.9	4665.5	4419.7	4359.1	4145.2	3958.4
37.5°	4764.8	4774.9	4886.1	5014.0	5089.8	5086.4	4963.5	4694.1	4625.1	4392.7	4185.7
40°	5160.5	5182.4	5293.5	5436.6	5509.0	5498.9	5310.4	5010.7	4939.9	4665.5	4463.5
42.5°	5524.2	5559.5	5689.2	5835.7	5914.8	5908.1	5711.1	5374.3	5305.3	4995.5	4793.5
45°	5813.8	5850.8	6012.5	6216.2	6342.5	6330.7	6132.0	5751.5	5667.3	5342.4	5120.1
47.5°	6068.0	6106.7	6286.9	6502.4	6702.8	6723.0	6541.1	6132.0	6042.8	5714.4	5463.6
50°	6263.3	6281.9	6483.9	6719.6	6952.0	7064.8	6906.5	6514.2	6406.4	6081.5	5798.6
52.5°	6248.2	6273.4	6522.6	6842.5	7154.0	7339.2	7229.8	6874.5	6770.1	6416.5	6140.4
55°	5940.1	5965.3	6261.6	6728.0	7266.8	7539.6	7527.8	7218.0	7142.2	6758.3	6495.7
57.5°	5490.5	5546.1	5840.7	6344.1	7118.6	7699.5	7746.7	7531.1	7452.0	7093.4	6847.6
60°	4685.7	4759.8	5099.9	5753.2	6643.8	7645.6	7980.7	7795.5	7746.7	7404.9	7165.8
62.5°	3404.4	3458.3	3911.2	4768.2	5940.1	7261.8	8177.7	8068.2	8031.2	7684.4	7453.7
65°	2038.9	2161.9	2525.5	3372.4	4791.8	6537.8	8069.9	8425.2	8386.5	7972.3	7699.5
67.5°	1032.1	1087.7	1230.8	1828.5	3222.6	5409.7	7529.5	8647.4	8694.6	8218.1	7787.1
70°	639.8	655.0	695.4	902.5	1609.6	3554.3	6157.3	8068.2	8298.9	8179.4	7559.8
72.5°	513.5	516.9	523.6	562.4	772.8	1661.8	3892.7	6318.9	6734.8	7638.9	7234.8
75°	426.0	427.7	429.3	441.1	481.5	678.5	1894.2	4342.2	4828.8	6492.3	6707.8
77.5°	341.8	333.4	340.1	345.2	355.3	378.8	653.3	2316.8	2810.1	4261.4	5187.5
80°	222.2	218.9	232.3	237.4	247.5	262.7	348.5	786.3	954.7	1550.7	1650.0
82.5°	119.5	112.8	141.4	136.4	141.4	153.2	205.4	287.9	323.3	468.1	395.7
85°	37.0	37.0	38.7	45.5	55.6	53.9	89.2	141.4	156.6	200.4	148.2
87.5°	6.7	6.7	6.7	6.7	6.7	8.4	18.5	28.6	38.7	69.0	52.2
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°	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1	2448.1
2.5°	2481.8	2466.6	2475.0	2480.1	2478.4	2475.0	2458.2	2454.8	2446.4	2432.9	2429.6
5°	2555.8	2539.0	2540.7	2535.6	2518.8	2496.9	2459.9	2441.4	2426.2	2409.4	2407.7
7.5°	2672.0	2653.5	2648.4	2624.9	2577.7	2527.2	2468.3	2434.6	2409.4	2387.5	2384.1
10°	2820.2	2801.7	2784.8	2729.3	2651.8	2584.5	2507.0	2458.2	2421.1	2394.2	2389.2
12.5°	2985.2	2970.0	2927.9	2847.1	2754.5	2675.4	2596.3	2535.6	2481.8	2441.4	2436.3
15°	3168.7	3135.0	3071.1	2966.7	2879.1	2815.1	2719.2	2636.7	2550.8	2496.9	2485.1
17.5°	3296.7	3268.0	3192.3	3091.3	3022.2	2966.7	2853.9	2736.0	2619.8	2540.7	2523.9
20°	3387.6	3357.3	3271.4	3197.3	3175.4	3128.3	2997.0	2860.6	2725.9	2628.2	2606.4
22.5°	3453.2	3421.3	3333.7	3296.7	3327.0	3318.6	3190.6	3035.7	2875.7	2759.6	2732.6
25°	3515.5	3485.2	3407.8	3421.3	3502.1	3527.3	3389.3	3209.1	3027.3	2890.9	2858.9
27.5°	3574.5	3535.8	3500.4	3574.5	3689.0	3736.1	3589.6	3385.9	3188.9	3049.2	3023.9
30°	3665.4	3619.9	3614.9	3722.6	3904.5	3944.9	3783.3	3579.5	3384.2	3242.8	3210.8
32.5°	3779.9	3737.8	3741.2	3902.8	4113.3	4146.9	4008.9	3818.6	3623.3	3481.9	3438.1
35°	3934.8	3882.6	3911.2	4109.9	4322.0	4384.3	4273.2	4114.9	3924.7	3779.9	3731.1
37.5°	4148.6	4072.8	4131.8	4340.6	4554.4	4647.0	4561.1	4443.3	4254.7	4108.2	4062.7
40°	4421.4	4359.1	4382.6	4613.3	4833.9	4945.0	4891.1	4774.9	4588.1	4434.8	4382.6
42.5°	4744.6	4682.3	4673.9	4919.7	5140.3	5308.7	5256.5	5150.4	4956.8	4781.7	4731.2
45°	5061.2	5003.9	5015.7	5266.6	5514.1	5697.6	5645.4	5520.8	5310.4	5108.3	5067.9
47.5°	5391.2	5344.0	5354.1	5620.2	5892.9	6076.4	6010.8	5859.2	5613.4	5397.9	5349.1
50°	5729.6	5675.7	5690.9	5970.4	6265.0	6438.4	6337.4	6113.5	5842.4	5631.9	5589.9
52.5°	6066.3	6002.4	6041.1	6305.4	6610.2	6748.2	6561.3	6290.3	6027.6	5818.8	5771.7
55°	6453.6	6386.2	6344.1	6627.0	6928.4	6985.6	6729.7	6413.2	6101.7	5864.3	5835.7
57.5°	6807.2	6749.9	6670.8	6953.6	7175.9	7133.8	6859.4	6379.5	5921.5	5616.8	5576.4
60°	7123.7	7074.9	7005.8	7246.6	7347.6	7253.3	6755.0	5980.5	5477.0	5158.8	5140.3
62.5°	7415.0	7362.8	7298.8	7504.2	7490.7	7271.9	6280.2	5367.6	4694.1	4352.3	4322.0
65°	7645.6	7598.5	7580.0	7741.6	7719.7	6909.9	5541.0	4364.1	3429.7	3044.1	3032.3
67.5°	7711.3	7692.8	7792.1	8066.6	7724.8	6182.5	4345.6	2894.3	1842.0	1476.6	1454.7
70°	7465.5	7463.8	7748.3	8140.6	7024.4	4722.8	2564.3	1304.9	926.0	821.6	808.2
72.5°	7145.6	7140.5	7366.1	7022.7	5209.3	2584.5	1079.2	698.7	579.2	550.6	550.6
75°	6620.3	6606.8	6776.9	5342.4	2929.6	973.2	572.5	479.9	454.6	449.5	449.5
77.5°	5396.2	5283.4	5015.7	3301.7	1022.0	478.2	378.8	377.1	362.0	360.3	360.3
80°	1774.6	1774.6	2062.5	1259.4	451.2	294.6	267.7	281.2	266.0	255.9	254.2
82.5°	289.6	399.0	567.4	360.3	244.1	183.5	165.0	175.1	183.5	146.5	146.5
85°	114.5	149.8	218.9	168.4	112.8	74.1	79.1	87.6	77.4	67.3	65.7
87.5°	43.8	53.9	77.4	40.4	23.6	13.5	8.4	8.4	6.7	6.7	6.7
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)