

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: P637698

Luminaire Tested: GWS-SA4D-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637698
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-SA4D-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24864.1 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

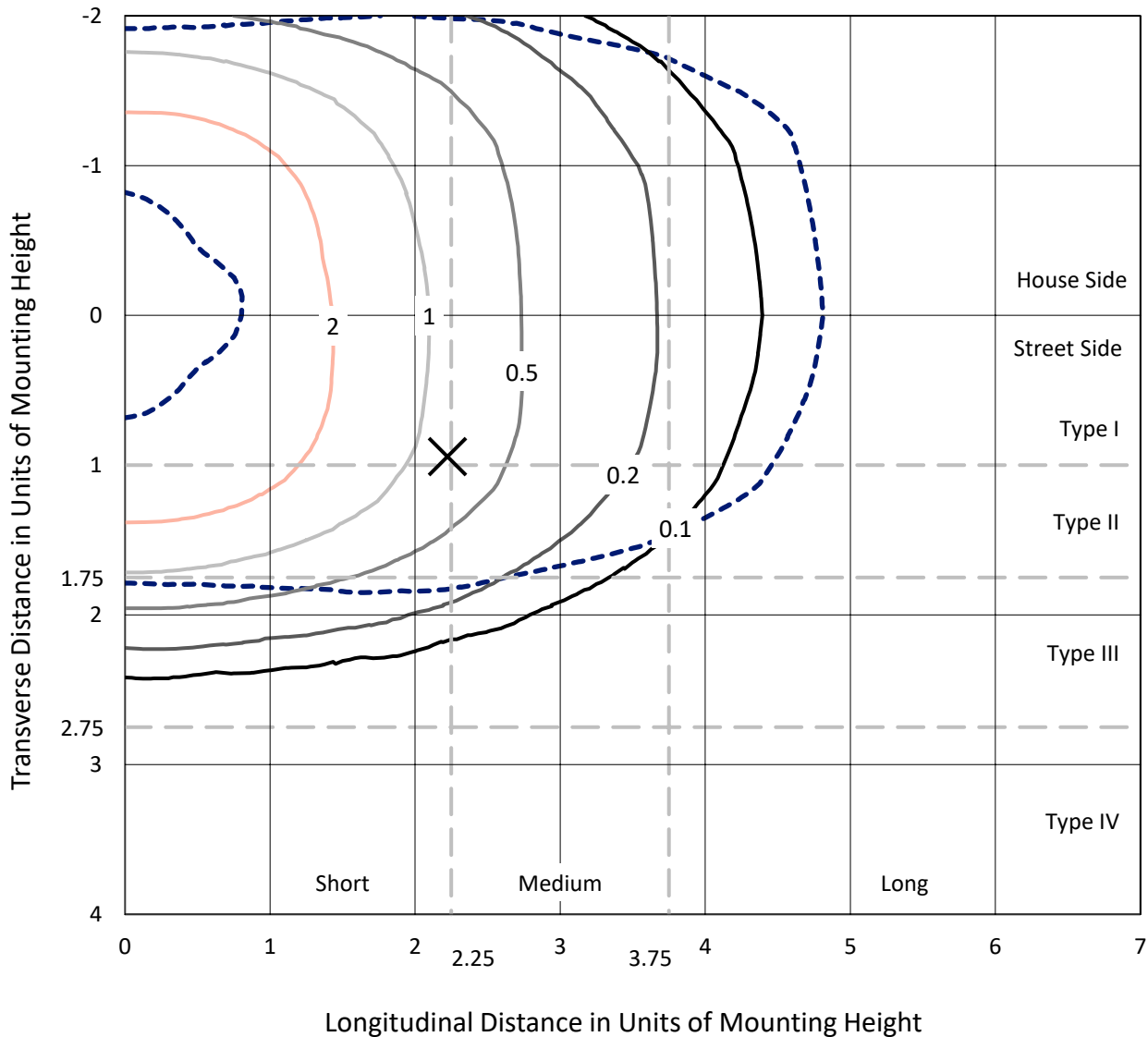
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

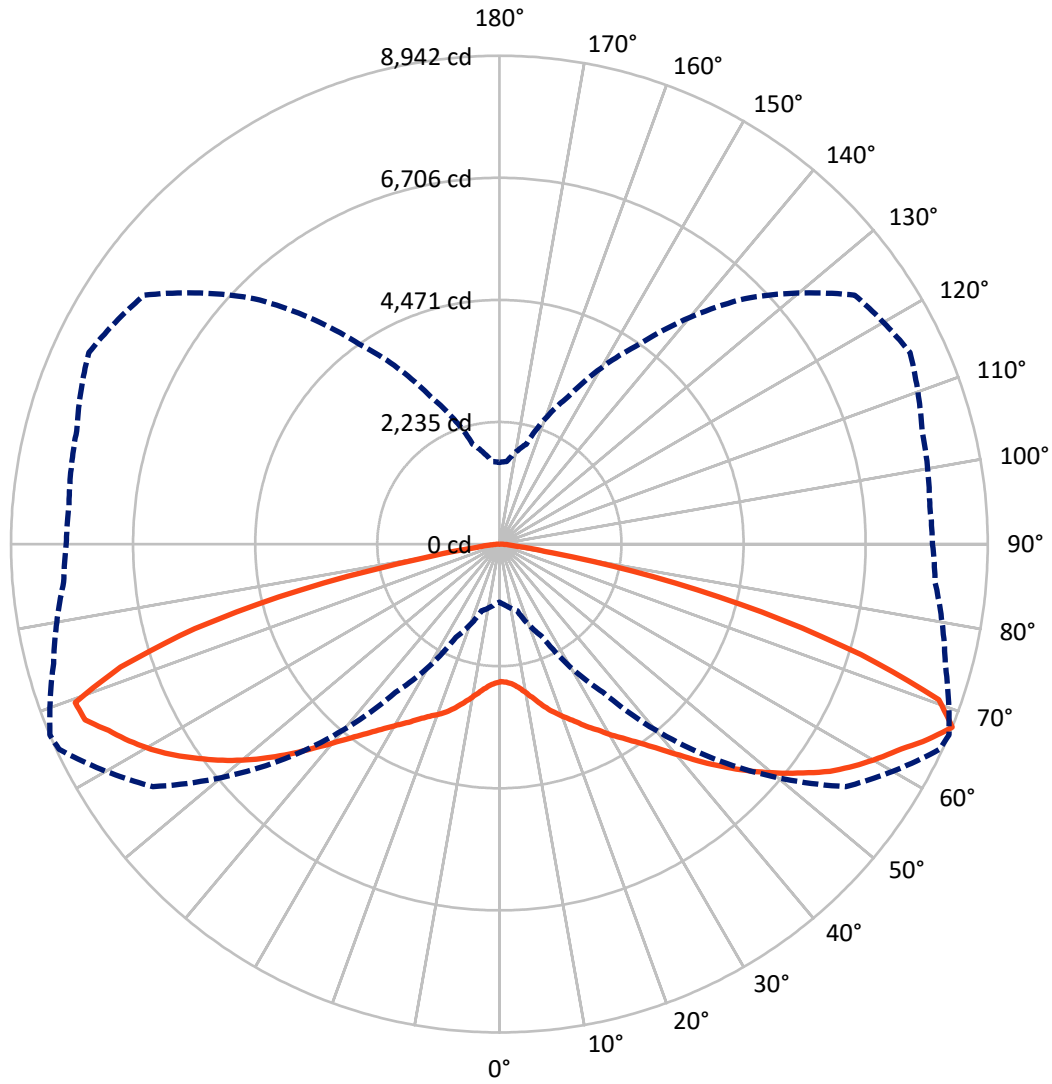
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	12294.8	0.0	12294.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	12569.2	0.0	12569.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	24864.1	0.0	24864.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	1.0
10°-20°	834.5	3.4
20°-30°	1637.3	6.6
30°-40°	2789.4	11.2
40°-50°	4479.2	18.0
50°-60°	6086.3	24.5
60°-70°	5821.9	23.4
70°-80°	2768.0	11.1
80°-90°	200.6	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°	24864.1	100.0
0°-180°	24864.1	100.0

Coefficient of Utilization



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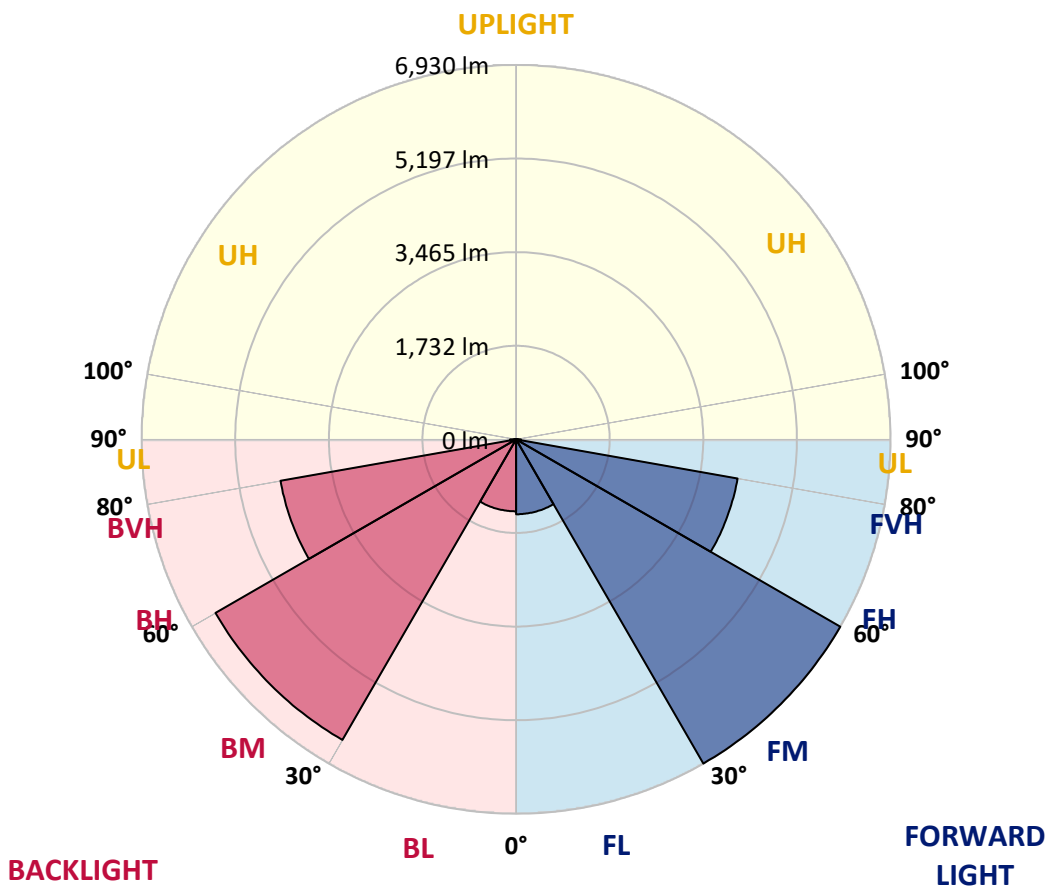
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.4	5.6			
FM (30°-60°)	6929.8	27.9			
FH (60°-80°)	4162.9	16.7			G2/5000
FVH (80°-90°)	90.2	0.4			G1/100
BL (0°-30°)	1332.4	5.4	B3/2500		
BM (30°-60°)	6425.0	25.8	B4/8500		
BH (60°-80°)	4427.0	17.8	B4/5000		G4/5000
BVH (80°-90°)	110.4	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°	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6
2.5°	2465.7	2469.1	2474.3	2484.7	2495.1	2510.7	2526.3	2524.6	2531.5	2536.7	2541.9
5°	2451.8	2455.3	2464.0	2477.8	2493.4	2519.4	2552.3	2566.1	2576.5	2595.5	2612.9
7.5°	2481.3	2488.2	2500.3	2519.4	2543.6	2576.5	2621.5	2645.8	2661.3	2696.0	2725.4
10°	2521.1	2529.7	2554.0	2590.4	2626.7	2676.9	2734.1	2770.4	2780.8	2825.8	2881.2
12.5°	2559.2	2569.6	2609.4	2675.2	2741.0	2808.5	2876.1	2921.1	2924.5	2985.1	3047.5
15°	2619.8	2628.4	2682.1	2767.0	2867.4	2960.9	3044.0	3075.2	3089.0	3132.3	3210.2
17.5°	2753.1	2763.5	2832.8	2924.5	3030.2	3128.9	3212.0	3237.9	3237.9	3274.3	3338.4
20°	2896.8	2907.2	2999.0	3116.7	3244.9	3345.3	3409.4	3385.1	3376.5	3386.9	3431.9
22.5°	3057.9	3076.9	3165.2	3302.0	3459.6	3582.5	3615.4	3542.7	3518.4	3494.2	3504.6
25°	3263.9	3286.4	3373.0	3518.4	3672.6	3802.4	3821.5	3708.9	3695.1	3610.2	3579.0
27.5°	3501.1	3518.4	3625.8	3769.5	3913.2	4022.3	4043.1	3904.6	3857.8	3740.1	3667.4
30°	3807.6	3823.2	3916.7	4058.7	4183.4	4259.5	4285.5	4095.0	4058.7	3878.6	3766.1
32.5°	4141.8	4148.7	4244.0	4380.7	4491.6	4564.3	4527.9	4306.3	4252.6	4050.0	3895.9
35°	4524.5	4524.5	4647.4	4758.2	4846.5	4867.3	4798.0	4545.2	4482.9	4263.0	4070.8
37.5°	4900.2	4910.6	5024.9	5156.5	5234.4	5230.9	5104.5	4827.5	4756.5	4517.5	4304.6
40°	5307.1	5329.6	5443.9	5591.1	5665.5	5655.1	5461.2	5153.0	5080.3	4798.0	4590.3
42.5°	5681.1	5717.5	5850.8	6001.4	6082.8	6075.9	5873.3	5527.0	5456.0	5137.4	4929.6
45°	5978.9	6017.0	6183.3	6392.8	6522.6	6510.5	6306.2	5914.9	5828.3	5494.1	5265.5
47.5°	6240.4	6280.2	6465.5	6687.1	6893.2	6914.0	6727.0	6306.2	6214.4	5876.8	5618.8
50°	6441.3	6460.3	6668.1	6910.5	7149.4	7265.5	7102.7	6699.2	6588.4	6254.2	5963.4
52.5°	6425.7	6451.6	6707.9	7036.9	7357.2	7547.7	7435.1	7069.8	6962.4	6598.8	6314.9
55°	6108.8	6134.8	6439.5	6919.2	7473.2	7753.7	7741.6	7423.0	7345.1	6950.3	6680.2
57.5°	5646.5	5703.6	6006.6	6524.4	7320.9	7918.2	7966.7	7745.1	7663.7	7294.9	7042.1
60°	4818.8	4895.0	5244.8	5916.6	6832.6	7862.8	8207.4	8016.9	7966.7	7615.2	7369.3
62.5°	3501.1	3556.5	4022.3	4903.7	6108.8	7468.0	8410.0	8297.4	8259.3	7902.7	7665.4
65°	2096.9	2223.3	2597.3	3468.2	4927.9	6723.5	8299.2	8664.5	8624.7	8198.7	7918.2
67.5°	1061.4	1118.6	1265.7	1880.4	3314.1	5563.4	7743.4	8893.1	8941.6	8451.5	8008.3
70°	658.0	673.6	715.1	928.1	1655.3	3655.2	6332.2	8297.4	8534.7	8411.7	7774.5
72.5°	528.1	531.6	538.5	578.3	794.8	1709.0	4003.3	6498.4	6926.1	7855.9	7440.3
75°	438.1	439.8	441.5	453.7	495.2	697.8	1948.0	4465.6	4966.0	6676.7	6898.4
77.5°	351.5	342.8	349.8	355.0	365.4	389.6	671.8	2382.6	2889.9	4382.5	5334.8
80°	228.6	225.1	238.9	244.1	254.5	270.1	358.4	808.6	981.8	1594.7	1696.9
82.5°	122.9	116.0	145.4	140.3	145.4	157.6	211.2	296.1	332.5	481.4	406.9
85°	38.1	38.1	39.8	46.8	57.1	55.4	91.8	145.4	161.0	206.1	152.4
87.5°	6.9	6.9	6.9	6.9	6.9	8.7	19.0	29.4	39.8	71.0	53.7
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°	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6	2517.6
2.5°	2552.3	2536.7	2545.3	2550.5	2548.8	2545.3	2528.0	2524.6	2515.9	2502.0	2498.6
5°	2628.4	2611.1	2612.9	2607.7	2590.4	2567.8	2529.7	2510.7	2495.1	2477.8	2476.1
7.5°	2747.9	2728.9	2723.7	2699.4	2651.0	2599.0	2538.4	2503.8	2477.8	2455.3	2451.8
10°	2900.3	2881.2	2863.9	2806.8	2727.1	2657.9	2578.2	2528.0	2489.9	2462.2	2457.0
12.5°	3070.0	3054.4	3011.1	2928.0	2832.8	2751.4	2670.0	2607.7	2552.3	2510.7	2505.5
15°	3258.7	3224.1	3158.3	3050.9	2960.9	2895.1	2796.4	2711.6	2623.3	2567.8	2555.7
17.5°	3390.3	3360.9	3283.0	3179.1	3108.1	3050.9	2934.9	2813.7	2694.2	2612.9	2595.5
20°	3483.8	3452.6	3364.3	3288.2	3265.6	3217.2	3082.1	2941.9	2803.3	2702.9	2680.4
22.5°	3551.3	3518.4	3428.4	3390.3	3421.5	3412.8	3281.2	3121.9	2957.4	2838.0	2810.3
25°	3615.4	3584.2	3504.6	3518.4	3601.6	3627.5	3485.5	3300.3	3113.3	2973.0	2940.1
27.5°	3676.0	3636.2	3599.8	3676.0	3793.8	3842.2	3691.6	3482.1	3279.5	3135.8	3109.8
30°	3769.5	3722.8	3717.6	3828.4	4015.4	4056.9	3890.7	3681.2	3480.4	3334.9	3302.0
32.5°	3887.3	3844.0	3847.4	4013.7	4230.1	4264.7	4122.7	3927.1	3726.2	3580.8	3535.8
35°	4046.6	3992.9	4022.3	4226.6	4444.8	4508.9	4394.6	4231.8	4036.2	3887.3	3837.0
37.5°	4266.5	4188.5	4249.1	4463.9	4683.8	4779.0	4690.7	4569.5	4375.5	4224.9	4178.2
40°	4547.0	4482.9	4507.1	4744.4	4971.2	5085.5	5030.1	4910.6	4718.4	4560.8	4507.1
42.5°	4879.4	4815.4	4806.7	5059.5	5286.3	5459.5	5405.8	5296.7	5097.6	4917.5	4865.6
45°	5204.9	5146.1	5158.2	5416.2	5670.7	5859.5	5805.8	5677.7	5461.2	5253.4	5211.9
47.5°	5544.3	5495.8	5506.2	5779.8	6060.3	6249.1	6181.5	6025.7	5772.9	5551.3	5501.0
50°	5892.4	5837.0	5852.5	6140.0	6443.0	6621.3	6517.4	6287.1	6008.4	5791.9	5748.6
52.5°	6238.7	6172.9	6212.7	6484.5	6797.9	6939.9	6747.7	6469.0	6198.8	5984.1	5935.6
55°	6636.9	6567.7	6524.4	6815.3	7125.2	7184.1	6920.9	6595.4	6275.0	6030.9	6001.4
57.5°	7000.5	6941.7	6860.3	7151.2	7379.7	7336.4	7054.2	6560.7	6089.8	5776.3	5734.8
60°	7326.1	7275.8	7204.9	7452.5	7556.3	7459.4	6946.9	6150.4	5632.6	5305.4	5286.3
62.5°	7625.6	7571.9	7506.1	7717.4	7703.5	7478.4	6458.6	5520.1	4827.5	4476.0	4444.8
65°	7862.8	7814.3	7795.3	7961.5	7939.0	7106.2	5698.4	4488.1	3527.1	3130.6	3118.5
67.5°	7930.4	7911.3	8013.5	8295.7	7944.2	6358.1	4469.1	2976.5	1894.3	1518.5	1496.0
70°	7677.6	7675.8	7968.5	8371.9	7223.9	4856.9	2637.1	1341.9	952.3	845.0	831.1
72.5°	7348.6	7343.4	7575.4	7222.2	5357.3	2657.9	1109.9	718.6	595.6	566.2	566.2
75°	6808.3	6794.5	6969.4	5494.1	3012.8	1000.8	588.7	493.5	467.5	462.3	462.3
77.5°	5549.5	5433.5	5158.2	3395.5	1051.0	491.8	389.6	387.9	372.3	370.5	370.5
80°	1825.0	1825.0	2121.1	1295.2	464.0	303.0	275.3	289.2	273.6	263.2	261.5
82.5°	297.8	410.4	583.5	370.5	251.1	188.7	169.7	180.1	188.7	150.6	150.6
85°	117.7	154.1	225.1	173.2	116.0	76.2	81.4	90.0	79.6	69.3	67.5
87.5°	45.0	55.4	79.6	41.6	24.2	13.9	8.7	8.7	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)