

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: P642483

Luminaire Tested: GWS-SA6D-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642483
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-SA6D-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27162.6 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

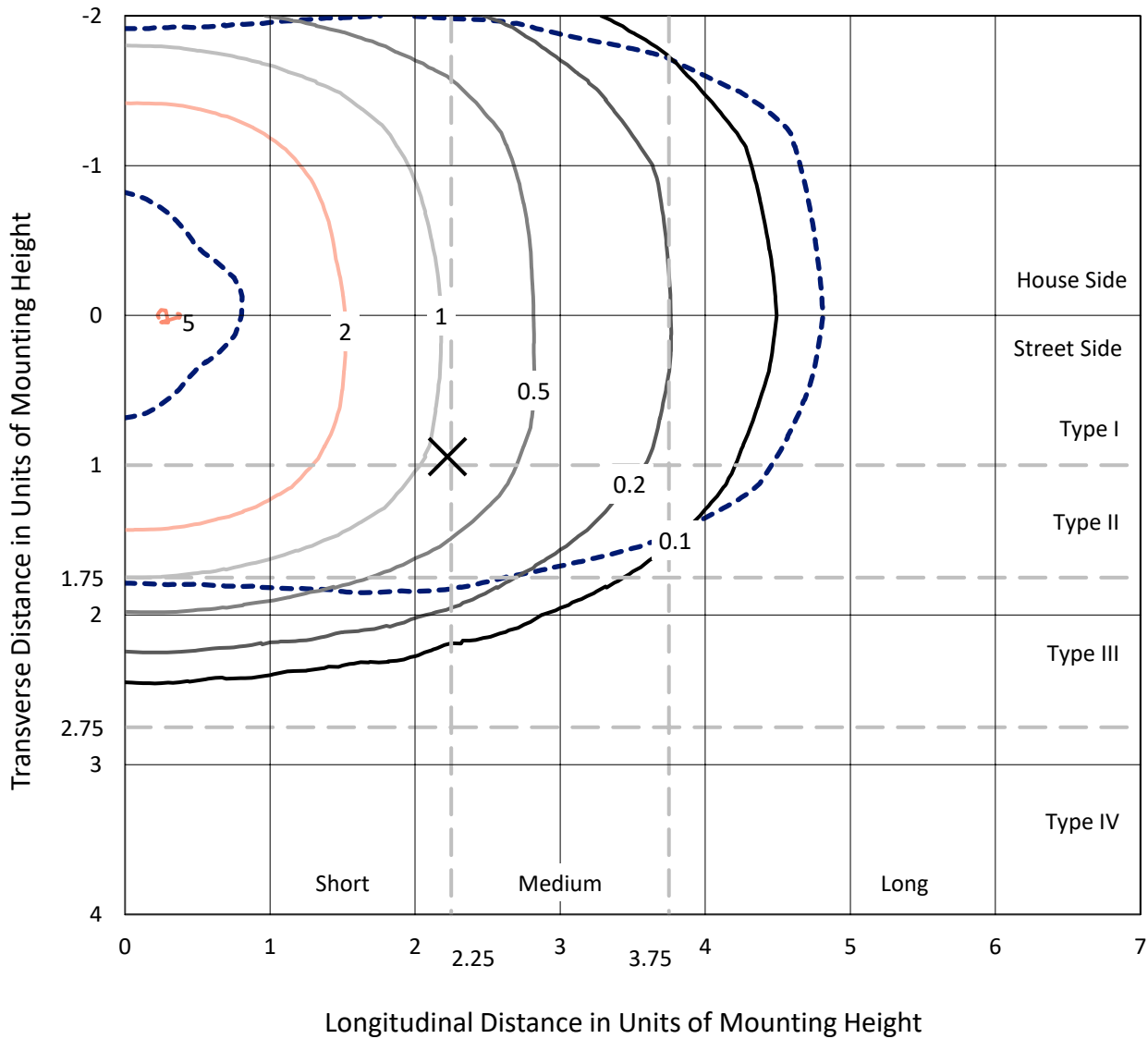
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

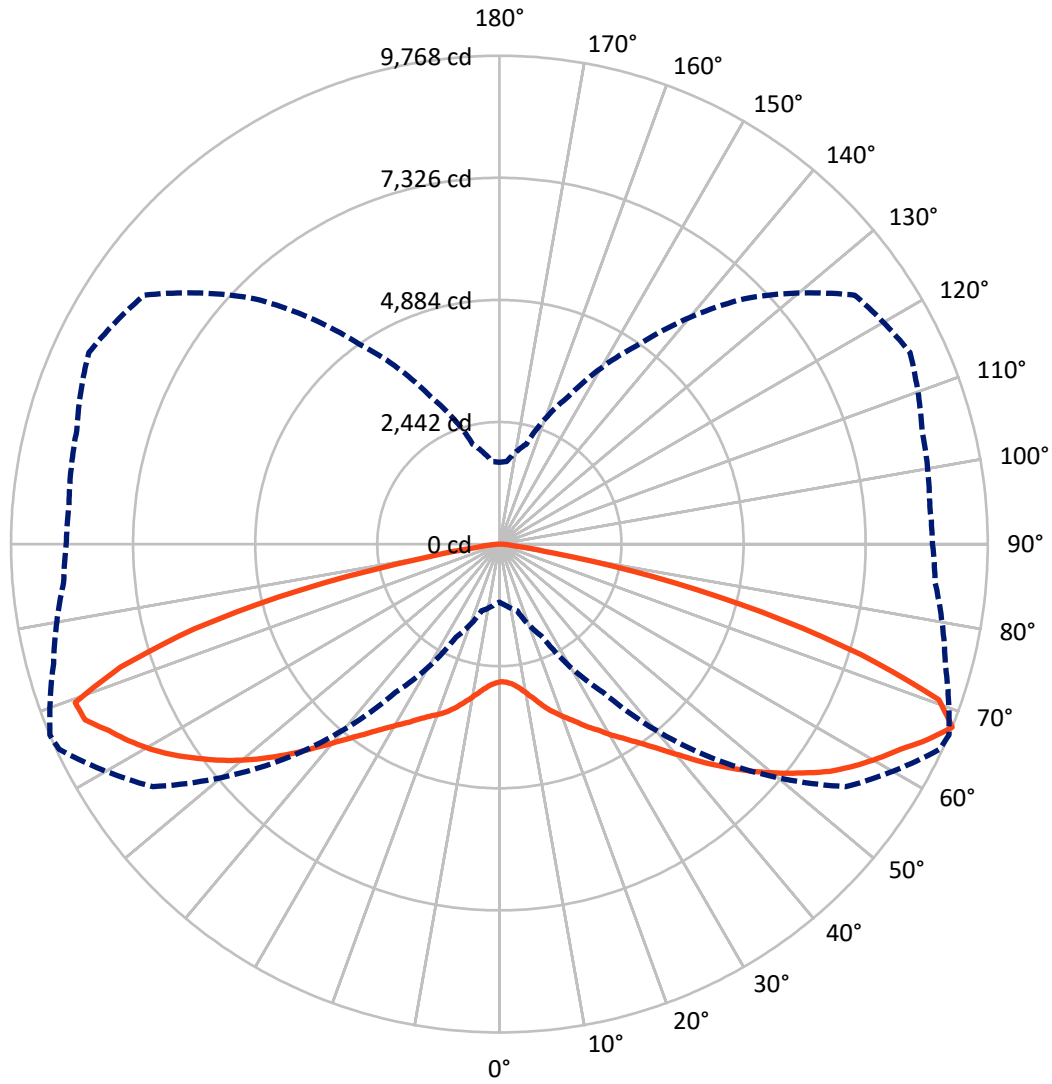
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	13431.4	0.0	13431.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	13731.2	0.0	13731.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	27162.6	0.0	27162.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	1.0
10°-20°	911.6	3.4
20°-30°	1788.6	6.6
30°-40°	3047.2	11.2
40°-50°	4893.3	18.0
50°-60°	6648.9	24.5
60°-70°	6360.1	23.4
70°-80°	3023.8	11.1
80°-90°	219.1	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°	27162.6	100.0
0°-180°	27162.6	100.0

Coefficient of Utilization



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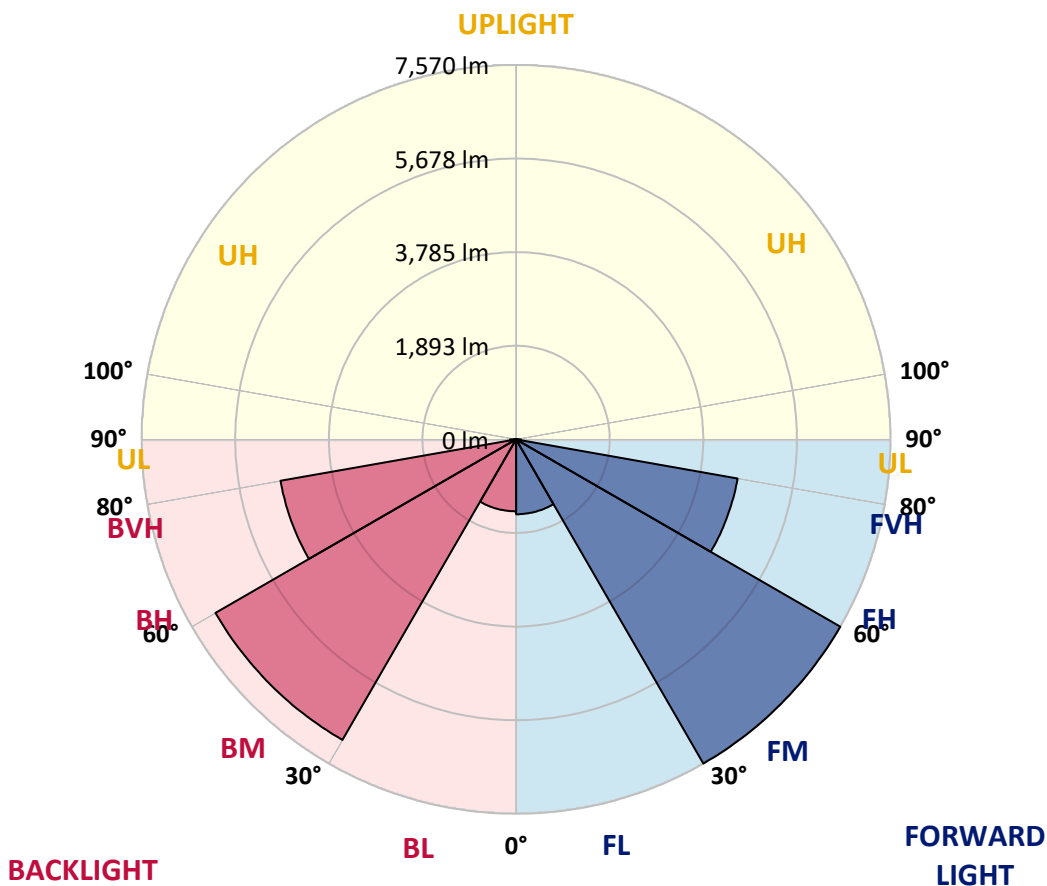
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.5	5.6			
FM (30°-60°)	7570.5	27.9			
FH (60°-80°)	4547.7	16.7			G2/5000
FVH (80°-90°)	98.5	0.4			G1/100
BL (0°-30°)	1455.6	5.4	B3/2500		
BM (30°-60°)	7018.9	25.8	B4/8500		
BH (60°-80°)	4836.2	17.8	B4/5000		G4/5000
BVH (80°-90°)	120.6	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°	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4
2.5°	2693.6	2697.4	2703.1	2714.4	2725.8	2742.8	2759.8	2757.9	2765.5	2771.2	2776.8
5°	2678.5	2682.3	2691.7	2706.9	2723.9	2752.3	2788.2	2803.3	2814.7	2835.5	2854.4
7.5°	2710.6	2718.2	2731.4	2752.3	2778.7	2814.7	2863.9	2890.3	2907.4	2945.2	2977.4
10°	2754.1	2763.6	2790.1	2829.8	2869.5	2924.4	2986.8	3026.5	3037.9	3087.1	3147.6
12.5°	2795.8	2807.1	2850.6	2922.5	2994.4	3068.2	3141.9	3191.1	3194.9	3261.1	3329.2
15°	2862.0	2871.4	2930.1	3022.8	3132.5	3234.6	3325.4	3359.5	3374.6	3421.9	3507.0
17.5°	3007.6	3019.0	3094.6	3194.9	3310.3	3418.1	3508.9	3537.3	3537.3	3577.0	3647.0
20°	3164.6	3176.0	3276.2	3404.9	3544.8	3654.5	3724.5	3698.0	3688.6	3699.9	3749.1
22.5°	3340.5	3361.3	3457.8	3607.3	3779.4	3913.7	3949.6	3870.2	3843.7	3817.2	3828.6
25°	3565.6	3590.2	3684.8	3843.7	4012.1	4153.9	4174.7	4051.8	4036.6	3944.0	3909.9
27.5°	3824.8	3843.7	3961.0	4118.0	4275.0	4394.2	4416.9	4265.5	4214.5	4085.8	4006.4
30°	4159.6	4176.6	4278.8	4433.9	4570.1	4653.3	4681.7	4473.6	4433.9	4237.2	4114.2
32.5°	4524.7	4532.2	4636.3	4785.7	4906.8	4986.2	4946.5	4704.4	4645.7	4424.4	4256.1
35°	4942.7	4942.7	5077.0	5198.1	5294.5	5317.2	5241.6	4965.4	4897.3	4657.1	4447.1
37.5°	5353.2	5364.5	5489.4	5633.1	5718.3	5714.5	5576.4	5273.7	5196.2	4935.1	4702.5
40°	5797.7	5822.3	5947.1	6107.9	6189.3	6177.9	5966.1	5629.4	5549.9	5241.6	5014.6
42.5°	6206.3	6246.0	6391.7	6556.2	6645.1	6637.6	6416.3	6037.9	5960.4	5612.3	5385.3
45°	6531.6	6573.3	6754.9	6983.7	7125.6	7112.4	6889.2	6461.7	6367.1	6002.0	5752.3
47.5°	6817.3	6860.8	7063.2	7305.3	7530.4	7553.1	7348.8	6889.2	6788.9	6420.0	6138.2
50°	7036.7	7057.5	7284.5	7549.3	7810.4	7937.1	7759.3	7318.5	7197.5	6832.4	6514.6
52.5°	7019.7	7048.0	7328.0	7687.4	8037.3	8245.4	8122.5	7723.3	7606.1	7208.8	6898.6
55°	6673.5	6701.9	7034.8	7558.8	8164.1	8470.5	8457.3	8109.2	8024.1	7592.8	7297.7
57.5°	6168.5	6230.9	6561.9	7127.5	7997.6	8650.2	8703.2	8461.1	8372.2	7969.2	7693.1
60°	5264.3	5347.5	5729.6	6463.5	7464.2	8589.7	8966.1	8758.0	8703.2	8319.2	8050.6
62.5°	3824.8	3885.3	4394.2	5357.0	6673.5	8158.4	9187.4	9064.5	9022.9	8633.2	8374.0
65°	2290.7	2428.8	2837.4	3788.8	5383.5	7345.0	9066.4	9465.5	9422.0	8956.7	8650.2
67.5°	1159.5	1222.0	1382.7	2054.3	3620.5	6077.7	8459.2	9715.2	9768.1	9232.8	8748.6
70°	718.8	735.8	781.2	1013.9	1808.4	3993.1	6917.5	9064.5	9323.6	9189.3	8493.2
72.5°	576.9	580.7	588.3	631.8	868.2	1867.0	4373.3	7099.1	7566.3	8582.1	8128.1
75°	478.6	480.5	482.4	495.6	541.0	762.3	2128.0	4878.4	5425.1	7294.0	7536.1
77.5°	384.0	374.5	382.1	387.8	399.1	425.6	733.9	2602.8	3157.1	4787.6	5828.0
80°	249.7	245.9	261.0	266.7	278.1	295.1	391.6	883.4	1072.5	1742.1	1853.8
82.5°	134.3	126.7	158.9	153.2	158.9	172.1	230.8	323.5	363.2	525.9	444.5
85°	41.6	41.6	43.5	51.1	62.4	60.5	100.3	158.9	175.9	225.1	166.5
87.5°	7.6	7.6	7.6	7.6	7.6	9.5	20.8	32.2	43.5	77.6	58.6
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°	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4	2750.4
2.5°	2788.2	2771.2	2780.6	2786.3	2784.4	2780.6	2761.7	2757.9	2748.5	2733.3	2729.6
5°	2871.4	2852.5	2854.4	2848.7	2829.8	2805.2	2763.6	2742.8	2725.8	2706.9	2705.0
7.5°	3001.9	2981.1	2975.5	2949.0	2896.0	2839.3	2773.1	2735.2	2706.9	2682.3	2678.5
10°	3168.4	3147.6	3128.7	3066.3	2979.2	2903.6	2816.6	2761.7	2720.1	2689.8	2684.2
12.5°	3353.8	3336.8	3289.5	3198.7	3094.6	3005.7	2916.8	2848.7	2788.2	2742.8	2737.1
15°	3560.0	3522.1	3450.3	3333.0	3234.6	3162.7	3054.9	2962.2	2865.8	2805.2	2792.0
17.5°	3703.7	3671.6	3586.4	3473.0	3395.4	3333.0	3206.2	3073.8	2943.3	2854.4	2835.5
20°	3805.9	3771.8	3675.3	3592.1	3567.5	3514.6	3367.0	3213.8	3062.5	2952.8	2928.2
22.5°	3879.6	3843.7	3745.3	3703.7	3737.8	3728.3	3584.6	3410.5	3230.8	3100.3	3070.0
25°	3949.6	3915.6	3828.6	3843.7	3934.5	3962.9	3807.8	3605.4	3401.1	3247.9	3211.9
27.5°	4015.8	3972.3	3932.6	4015.8	4144.5	4197.4	4032.9	3804.0	3582.7	3425.7	3397.3
30°	4118.0	4066.9	4061.2	4182.3	4386.6	4432.0	4250.4	4021.5	3802.1	3643.2	3607.3
32.5°	4246.6	4199.3	4203.1	4384.7	4621.1	4659.0	4503.9	4290.1	4070.7	3911.8	3862.6
35°	4420.6	4362.0	4394.2	4617.4	4855.7	4925.7	4800.8	4623.0	4409.3	4246.6	4191.8
37.5°	4660.9	4575.7	4641.9	4876.5	5116.7	5220.8	5124.3	4991.9	4780.0	4615.5	4564.4
40°	4967.3	4897.3	4923.8	5182.9	5430.7	5555.6	5495.1	5364.5	5154.6	4982.4	4923.8
42.5°	5330.5	5260.5	5251.0	5527.2	5775.0	5964.2	5905.5	5786.4	5568.8	5372.1	5315.4
45°	5686.1	5621.8	5635.0	5916.9	6194.9	6401.1	6342.5	6202.5	5966.1	5739.1	5693.7
47.5°	6056.9	6003.9	6015.2	6314.1	6620.5	6826.7	6753.0	6582.7	6306.5	6064.4	6009.6
50°	6437.1	6376.5	6393.6	6707.6	7038.6	7233.4	7119.9	6868.3	6563.8	6327.4	6280.1
52.5°	6815.4	6743.5	6787.0	7084.0	7426.4	7581.5	7371.5	7067.0	6771.9	6537.3	6484.4
55°	7250.4	7174.8	7127.5	7445.3	7783.9	7848.2	7560.7	7205.0	6855.1	6588.4	6556.2
57.5°	7647.7	7583.4	7494.5	7812.2	8061.9	8014.6	7706.3	7167.2	6652.7	6310.3	6264.9
60°	8003.3	7948.4	7870.9	8141.4	8254.9	8148.9	7589.0	6718.9	6153.3	5795.8	5775.0
62.5°	8330.5	8271.9	8200.0	8430.8	8415.7	8169.8	7055.6	6030.4	5273.7	4889.7	4855.7
65°	8589.7	8536.7	8515.9	8697.5	8672.9	7763.1	6225.2	4903.0	3853.2	3420.0	3406.7
67.5°	8663.5	8642.7	8754.3	9062.6	8678.6	6945.9	4882.2	3251.6	2069.4	1658.9	1634.3
70°	8387.3	8385.4	8705.1	9145.8	7891.7	5305.9	2880.9	1466.0	1040.4	923.1	908.0
72.5°	8027.9	8022.2	8275.7	7889.8	5852.6	2903.6	1212.5	785.0	650.7	618.5	618.5
75°	7437.7	7422.6	7613.6	6002.0	3291.4	1093.3	643.1	539.1	510.7	505.1	505.1
77.5°	6062.5	5935.8	5635.0	3709.4	1148.2	537.2	425.6	423.7	406.7	404.8	404.8
80°	1993.7	1993.7	2317.2	1414.9	506.9	331.0	300.8	315.9	298.9	287.5	285.6
82.5°	325.4	448.3	637.5	404.8	274.3	206.2	185.4	196.7	206.2	164.6	164.6
85°	128.6	168.4	245.9	189.2	126.7	83.2	88.9	98.4	87.0	75.7	73.8
87.5°	49.2	60.5	87.0	45.4	26.5	15.1	9.5	9.5	7.6	7.6	7.6
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)