

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: P637808

Luminaire Tested: GWS-SA4D-750-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637808  
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-750-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

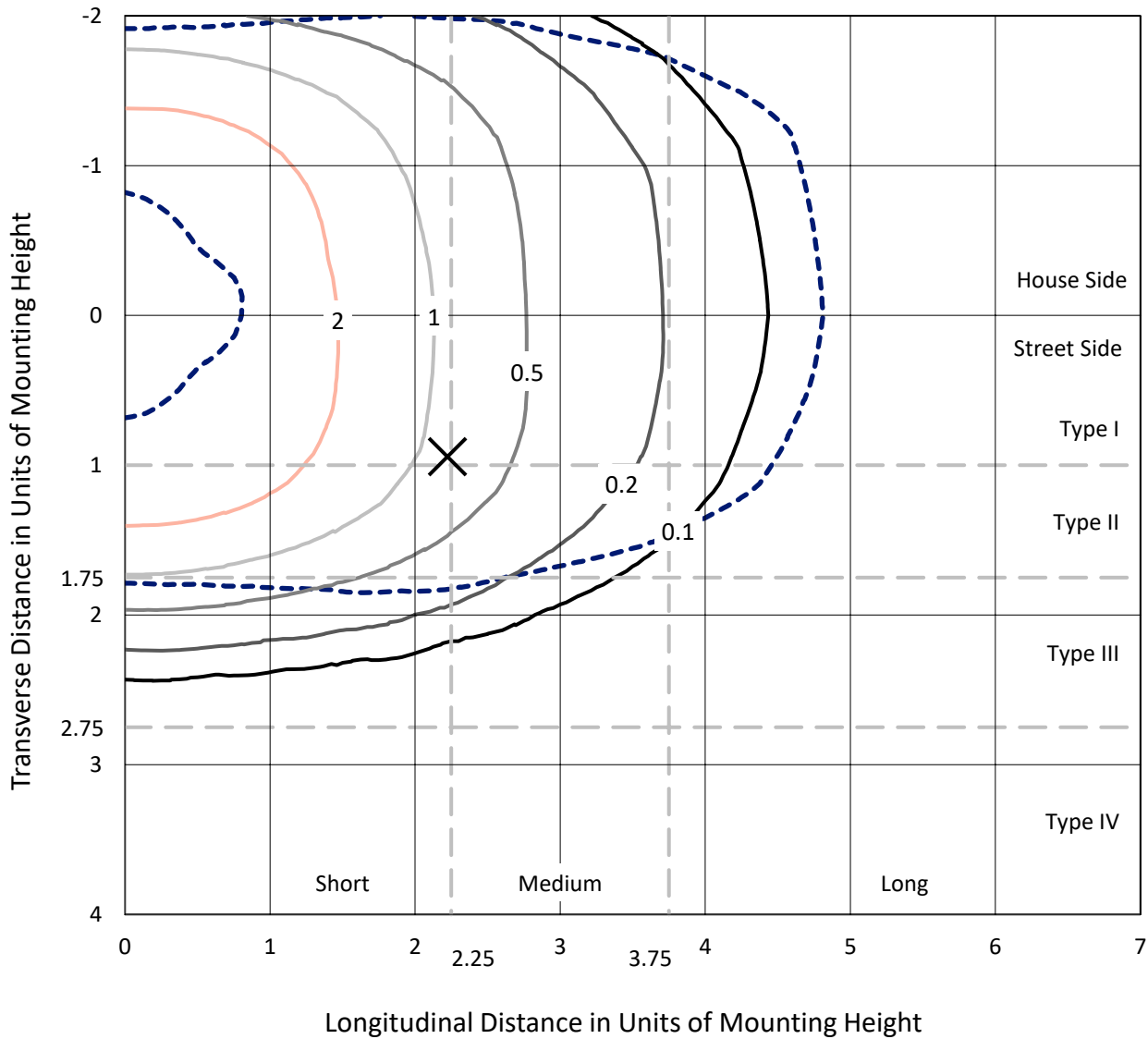
Lumens per Lamp: N/A  
Luminaire Lumens: 25787.3 lumens  
Efficiency: N/A  
Efficacy: 159.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

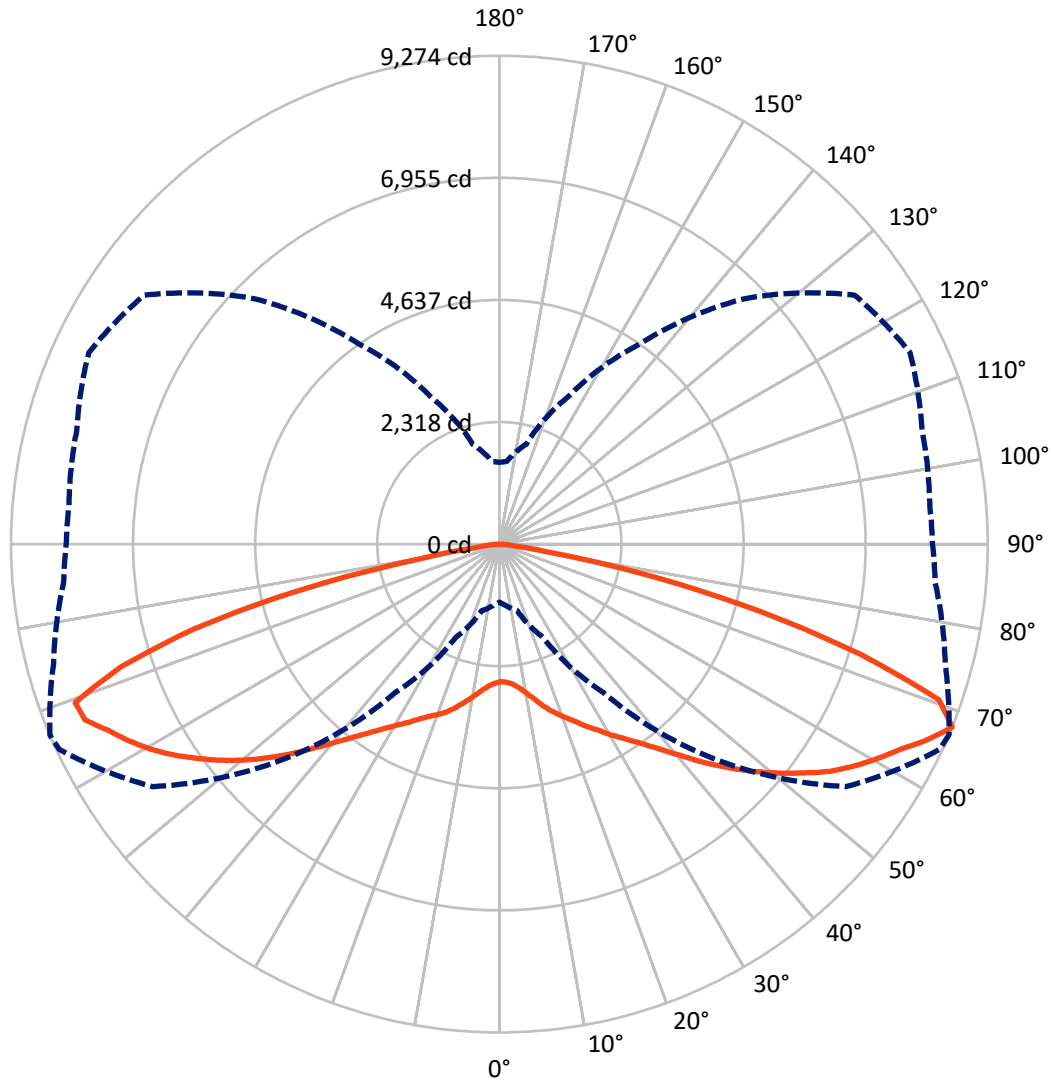
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	12751.4	0.0	12751.4
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	13035.9	0.0	13035.9
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	25787.3	0.0	25787.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.2	1.0
10°-20°	865.5	3.4
20°-30°	1698.1	6.6
30°-40°	2892.9	11.2
40°-50°	4645.5	18.0
50°-60°	6312.3	24.5
60°-70°	6038.1	23.4
70°-80°	2870.7	11.1
80°-90°	208.0	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°	25787.3	100.0
0°-180°	25787.3	100.0

**Coefficient of Utilization**



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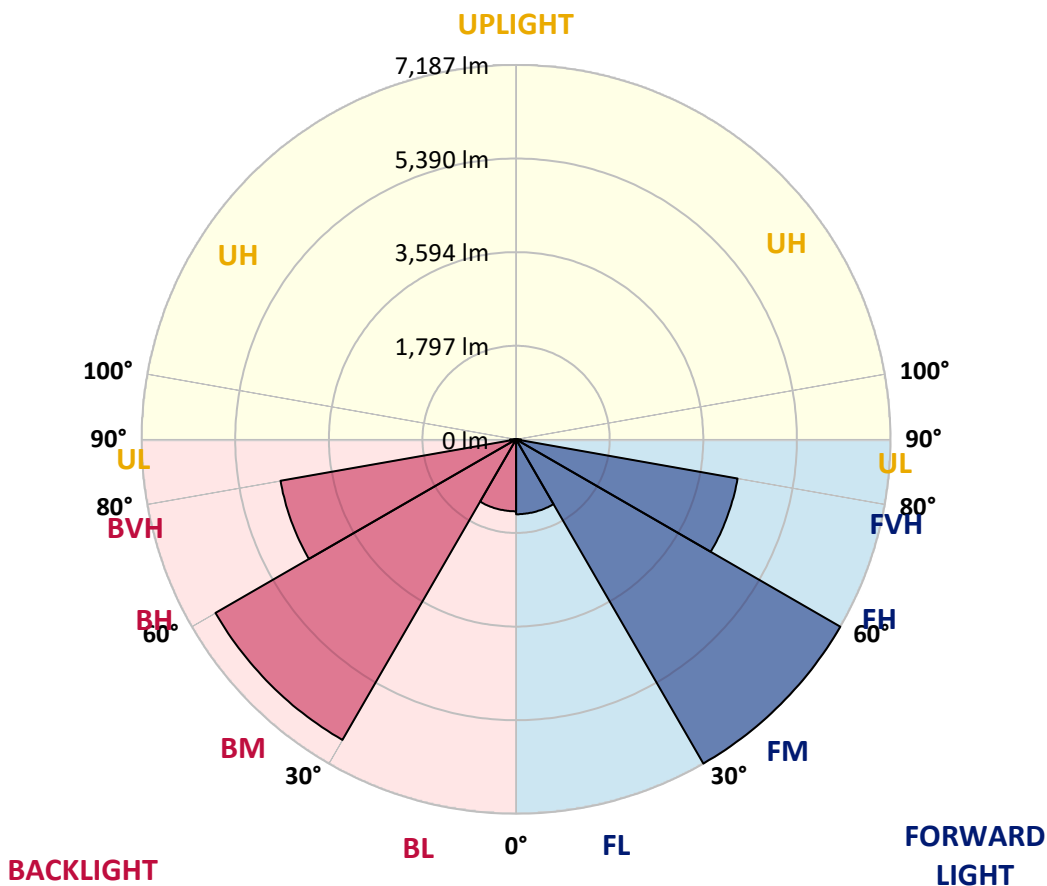
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1437.8	5.6			
FM (30°-60°)	7187.1	27.9			
FH (60°-80°)	4317.5	16.7			G2/5000
FVH (80°-90°)	93.5	0.4			G1/100
BL (0°-30°)	1381.9	5.4	B3/2500		
BM (30°-60°)	6663.6	25.8	B4/8500		
BH (60°-80°)	4591.4	17.8	B4/5000		G4/5000
BVH (80°-90°)	114.5	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°	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1
2.5°	2557.2	2560.8	2566.2	2577.0	2587.8	2603.9	2620.1	2618.3	2625.5	2630.9	2636.2
5°	2542.9	2546.5	2555.4	2569.8	2586.0	2612.9	2647.0	2661.4	2672.2	2691.9	2709.9
7.5°	2573.4	2580.6	2593.1	2612.9	2638.0	2672.2	2718.9	2744.0	2760.2	2796.1	2826.6
10°	2614.7	2623.7	2648.8	2686.5	2724.2	2776.3	2835.6	2873.3	2884.1	2930.8	2988.2
12.5°	2654.2	2665.0	2706.3	2774.5	2842.8	2912.8	2982.8	3029.5	3033.1	3096.0	3160.6
15°	2717.1	2726.0	2781.7	2869.7	2973.9	3070.8	3157.0	3189.4	3203.7	3248.6	3329.4
17.5°	2855.3	2866.1	2937.9	3033.1	3142.7	3245.0	3331.2	3358.2	3358.2	3395.9	3462.3
20°	3004.4	3015.2	3110.3	3232.5	3365.3	3469.5	3536.0	3510.8	3501.8	3512.6	3559.3
22.5°	3171.4	3191.2	3282.7	3424.6	3588.0	3715.5	3749.7	3674.2	3649.1	3623.9	3634.7
25°	3385.1	3408.4	3498.2	3649.1	3808.9	3943.6	3963.4	3846.6	3832.3	3744.3	3711.9
27.5°	3631.1	3649.1	3760.4	3909.5	4058.5	4171.7	4193.2	4049.6	4001.1	3878.9	3803.5
30°	3949.0	3965.1	4062.1	4209.4	4338.7	4417.7	4444.6	4247.1	4209.4	4022.6	3905.9
32.5°	4295.6	4302.8	4401.5	4543.4	4658.3	4733.8	4696.0	4466.2	4410.5	4200.4	4040.6
35°	4692.5	4692.5	4820.0	4934.9	5026.5	5048.0	4976.2	4714.0	4649.4	4421.3	4221.9
37.5°	5082.1	5092.9	5211.4	5347.9	5428.7	5425.1	5294.0	5006.7	4933.1	4685.3	4464.4
40°	5504.2	5527.5	5646.0	5798.7	5875.9	5865.1	5664.0	5344.3	5268.9	4976.2	4760.7
42.5°	5892.1	5929.8	6068.0	6224.3	6308.7	6301.5	6091.4	5732.2	5658.6	5328.2	5112.7
45°	6200.9	6240.4	6412.8	6630.1	6764.8	6752.2	6540.3	6134.5	6044.7	5698.1	5461.1
47.5°	6472.1	6513.4	6705.6	6935.4	7149.1	7170.7	6976.7	6540.3	6445.2	6095.0	5827.4
50°	6680.4	6700.2	6915.7	7167.1	7414.9	7535.2	7366.4	6948.0	6833.1	6486.5	6184.8
52.5°	6664.3	6691.2	6957.0	7298.2	7630.4	7827.9	7711.2	7332.3	7221.0	6843.8	6549.3
55°	6335.6	6362.6	6678.6	7176.1	7750.7	8041.6	8029.1	7698.6	7617.8	7208.4	6928.2
57.5°	5856.1	5915.4	6229.7	6766.6	7592.7	8212.2	8262.5	8032.7	7948.3	7565.7	7303.6
60°	4997.7	5076.8	5439.5	6136.3	7086.3	8154.8	8512.1	8314.6	8262.5	7898.0	7643.0
62.5°	3631.1	3688.6	4171.7	5085.7	6335.6	7745.3	8722.2	8605.5	8566.0	8196.1	7950.1
65°	2174.7	2305.8	2693.7	3597.0	5110.9	6973.1	8607.3	8986.2	8944.9	8503.2	8212.2
67.5°	1100.8	1160.1	1312.7	1950.2	3437.2	5769.9	8030.9	9223.3	9273.6	8765.3	8305.6
70°	682.4	698.6	741.7	962.6	1716.8	3791.0	6567.3	8605.5	8851.5	8724.0	8063.2
72.5°	547.7	551.3	558.5	599.8	824.3	1772.5	4151.9	6739.7	7183.2	8147.6	7716.6
75°	454.3	456.1	457.9	470.5	513.6	723.7	2020.3	4631.4	5150.4	6924.6	7154.5
77.5°	364.5	355.6	362.8	368.1	378.9	404.1	696.8	2471.0	2997.2	4545.2	5532.9
80°	237.0	233.5	247.8	253.2	264.0	280.1	371.7	838.6	1018.2	1653.9	1759.9
82.5°	127.5	120.3	150.8	145.5	150.8	163.4	219.1	307.1	344.8	499.2	422.0
85°	39.5	39.5	41.3	48.5	59.3	57.5	95.2	150.8	167.0	213.7	158.0
87.5°	7.2	7.2	7.2	7.2	7.2	9.0	19.8	30.5	41.3	73.6	55.7
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°	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1	2611.1
2.5°	2647.0	2630.9	2639.8	2645.2	2643.4	2639.8	2621.9	2618.3	2609.3	2594.9	2591.4
5°	2726.0	2708.1	2709.9	2704.5	2686.5	2663.2	2623.7	2603.9	2587.8	2569.8	2568.0
7.5°	2850.0	2830.2	2824.8	2799.7	2749.4	2695.5	2632.7	2596.7	2569.8	2546.5	2542.9
10°	3008.0	2988.2	2970.3	2911.0	2828.4	2756.6	2674.0	2621.9	2582.4	2553.6	2548.3
12.5°	3184.0	3167.8	3122.9	3036.7	2937.9	2853.5	2769.1	2704.5	2647.0	2603.9	2598.5
15°	3379.7	3343.8	3275.6	3164.2	3070.8	3002.6	2900.2	2812.2	2720.7	2663.2	2650.6
17.5°	3516.2	3485.7	3404.9	3297.1	3223.5	3164.2	3043.9	2918.2	2794.3	2709.9	2691.9
20°	3613.2	3580.8	3489.3	3410.2	3386.9	3336.6	3196.5	3051.1	2907.4	2803.3	2779.9
22.5°	3683.2	3649.1	3555.7	3516.2	3548.5	3539.5	3403.1	3237.8	3067.2	2943.3	2914.6
25°	3749.7	3717.3	3634.7	3649.1	3735.3	3762.2	3615.0	3422.8	3228.9	3083.4	3049.3
27.5°	3812.5	3771.2	3733.5	3812.5	3934.6	3984.9	3828.7	3611.4	3401.3	3252.2	3225.3
30°	3909.5	3861.0	3855.6	3970.5	4164.5	4207.6	4035.2	3817.9	3609.6	3458.7	3424.6
32.5°	4031.6	3986.7	3990.3	4162.7	4387.2	4423.1	4275.8	4072.9	3864.6	3713.7	3667.0
35°	4196.8	4141.1	4171.7	4383.6	4609.8	4676.3	4557.8	4389.0	4186.0	4031.6	3979.5
37.5°	4424.9	4344.1	4406.9	4629.6	4857.7	4956.4	4864.8	4739.1	4538.0	4381.8	4333.3
40°	4715.8	4649.4	4674.5	4920.5	5155.8	5274.3	5216.8	5092.9	4893.6	4730.2	4674.5
42.5°	5060.6	4994.1	4985.2	5247.4	5482.6	5662.2	5606.5	5493.4	5286.9	5100.1	5046.2
45°	5398.2	5337.1	5349.7	5617.3	5881.3	6077.0	6021.4	5888.5	5664.0	5448.5	5405.4
47.5°	5750.2	5699.9	5710.7	5994.4	6285.3	6481.1	6411.0	6249.4	5987.2	5757.4	5705.3
50°	6111.1	6053.7	6069.8	6367.9	6682.2	6867.2	6759.4	6520.6	6231.5	6007.0	5962.1
52.5°	6470.3	6402.1	6443.4	6725.3	7050.4	7197.6	6998.3	6709.1	6429.0	6206.3	6156.0
55°	6883.3	6811.5	6766.6	7068.3	7389.8	7450.8	7177.9	6840.2	6508.0	6254.8	6224.3
57.5°	7260.5	7199.4	7115.0	7416.7	7653.7	7608.8	7316.1	6804.3	6315.9	5990.8	5947.7
60°	7598.1	7546.0	7472.4	7729.2	7836.9	7736.3	7204.8	6378.7	5841.8	5502.4	5482.6
62.5°	7908.7	7853.1	7784.8	8003.9	7989.6	7756.1	6698.4	5725.0	5006.7	4642.2	4609.8
65°	8154.8	8104.5	8084.7	8257.1	8233.8	7370.0	5910.0	4654.7	3658.1	3246.8	3234.3
67.5°	8224.8	8205.1	8311.0	8603.7	8239.2	6594.2	4635.0	3087.0	1964.6	1574.9	1551.6
70°	7962.6	7960.8	8264.3	8682.7	7492.1	5037.2	2735.0	1391.8	987.7	876.4	862.0
72.5°	7621.4	7616.0	7856.7	7490.3	5556.2	2756.6	1151.1	745.3	617.8	587.2	587.2
75°	7061.1	7046.8	7228.1	5698.1	3124.7	1038.0	610.6	511.8	484.9	479.5	479.5
77.5°	5755.6	5635.3	5349.7	3521.6	1090.1	510.0	404.1	402.3	386.1	384.3	384.3
80°	1892.8	1892.8	2199.9	1343.3	481.3	314.3	285.5	299.9	283.7	273.0	271.2
82.5°	308.9	425.6	605.2	384.3	260.4	195.7	176.0	186.8	195.7	156.2	156.2
85°	122.1	159.8	233.5	179.6	120.3	79.0	84.4	93.4	82.6	71.8	70.0
87.5°	46.7	57.5	82.6	43.1	25.1	14.4	9.0	9.0	7.2	7.2	7.2
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)