

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: P637863

Luminaire Tested: GWS-SA4D-760-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637863  
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-760-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

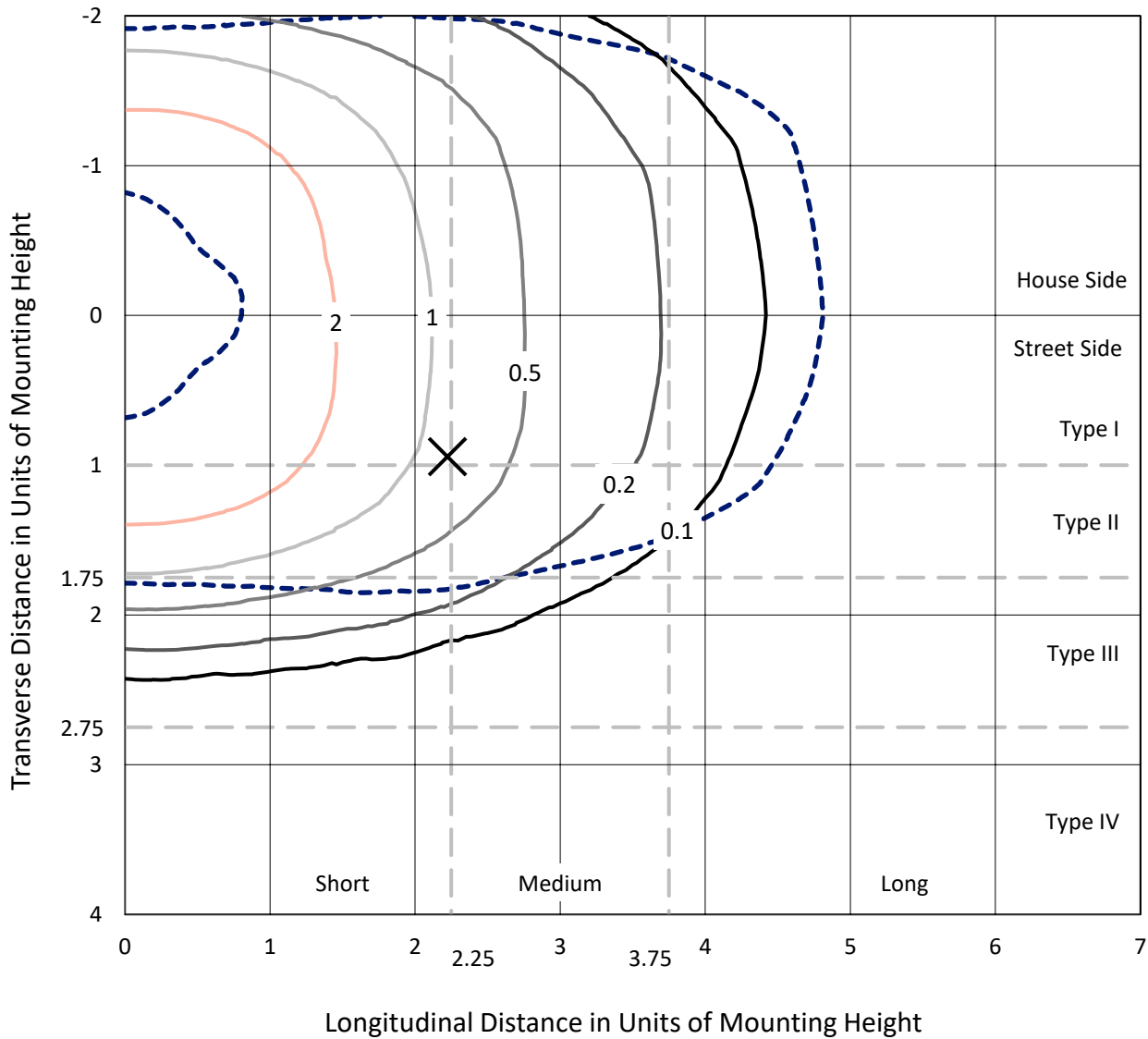
Lumens per Lamp: N/A  
Luminaire Lumens: 25433.9 lumens  
Efficiency: N/A  
Efficacy: 156.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

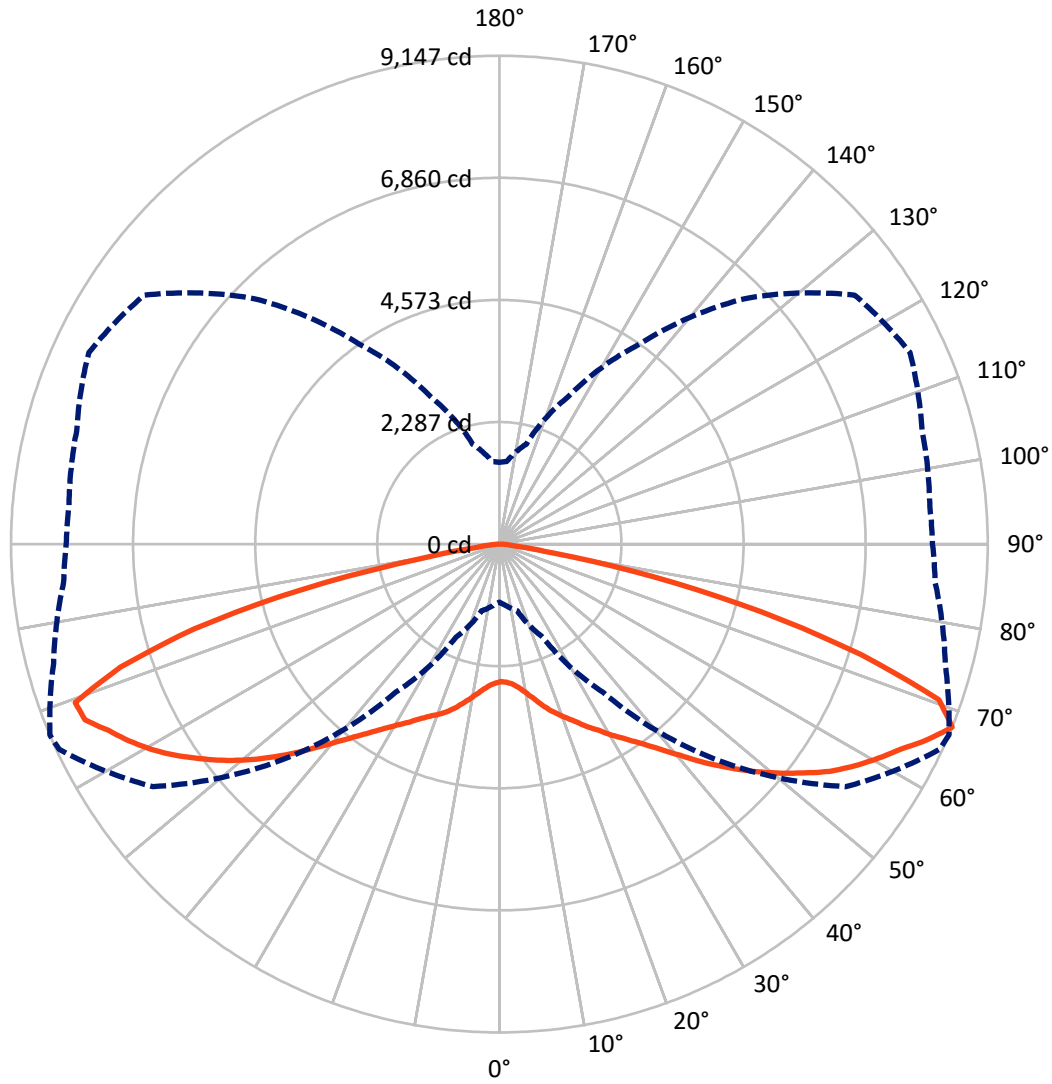
✕ Max cd  
 - - - 1/2 Max cd



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	12576.6	0.0	12576.6
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	12857.3	0.0	12857.3
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	25433.9	0.0	25433.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.7	1.0
10°-20°	853.6	3.4
20°-30°	1674.8	6.6
30°-40°	2853.3	11.2
40°-50°	4581.8	18.0
50°-60°	6225.8	24.5
60°-70°	5955.4	23.4
70°-80°	2831.4	11.1
80°-90°	205.2	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°	25433.9	100.0
0°-180°	25433.9	100.0

**Coefficient of Utilization**



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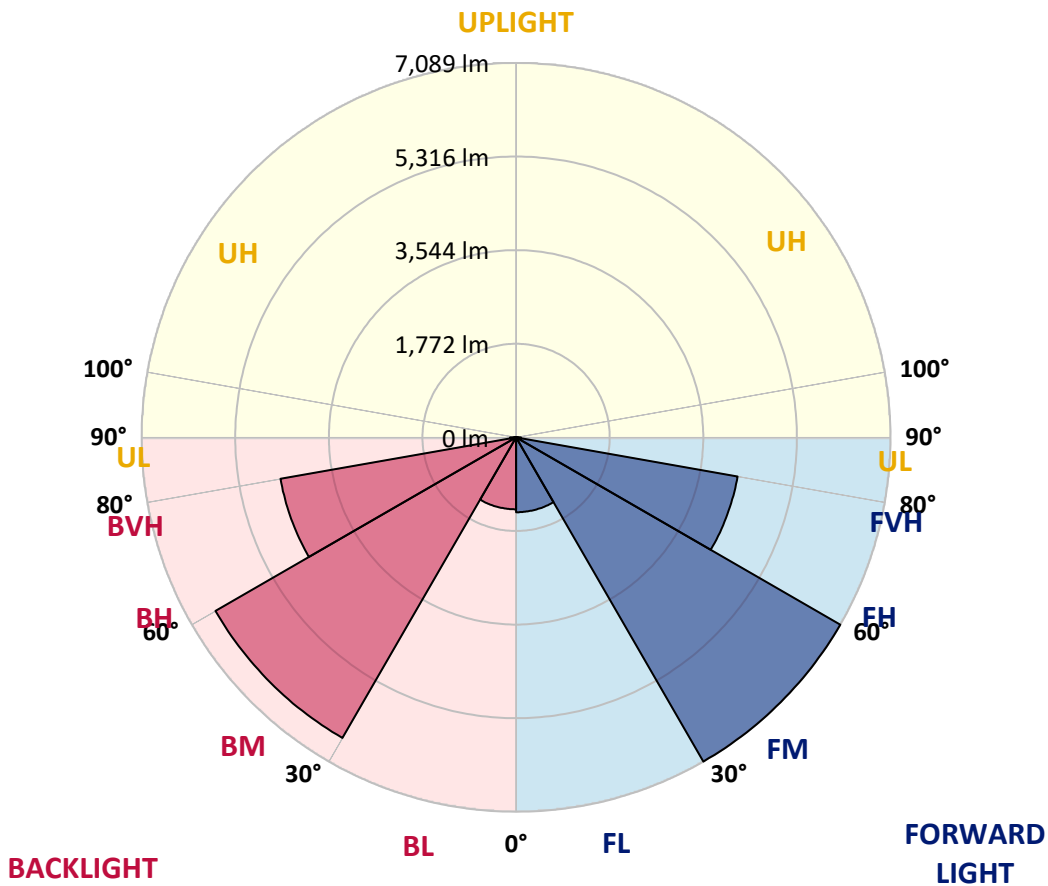
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.1	5.6			
FM (30°-60°)	7088.6	27.9			
FH (60°-80°)	4258.3	16.7			G2/5000
FVH (80°-90°)	92.2	0.4			G1/100
BL (0°-30°)	1363.0	5.4	B3/2500		
BM (30°-60°)	6572.2	25.8	B4/8500		
BH (60°-80°)	4528.4	17.8	B4/5000		G4/5000
BVH (80°-90°)	113.0	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°	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3
2.5°	2522.2	2525.7	2531.0	2541.7	2552.3	2568.2	2584.2	2582.4	2589.5	2594.8	2600.1
5°	2508.0	2511.6	2520.4	2534.6	2550.5	2577.1	2610.7	2624.9	2635.5	2655.0	2672.7
7.5°	2538.1	2545.2	2557.6	2577.1	2601.9	2635.5	2681.6	2706.4	2722.3	2757.8	2787.9
10°	2578.9	2587.7	2612.5	2649.7	2686.9	2738.3	2796.7	2833.9	2844.5	2890.6	2947.3
12.5°	2617.8	2628.5	2669.2	2736.5	2803.8	2872.9	2942.0	2988.0	2991.6	3053.5	3117.3
15°	2679.8	2688.7	2743.6	2830.4	2933.1	3028.8	3113.8	3145.7	3159.8	3204.1	3283.8
17.5°	2816.2	2826.8	2897.7	2991.6	3099.6	3200.6	3285.6	3312.1	3312.1	3349.3	3414.9
20°	2963.2	2973.8	3067.7	3188.2	3319.2	3422.0	3487.5	3462.7	3453.8	3464.5	3510.5
22.5°	3127.9	3147.4	3237.8	3377.7	3538.9	3664.6	3698.3	3623.9	3599.1	3574.3	3584.9
25°	3338.7	3361.7	3450.3	3599.1	3756.7	3889.6	3909.0	3793.9	3779.7	3693.0	3661.1
27.5°	3581.4	3599.1	3708.9	3855.9	4002.9	4114.5	4135.8	3994.1	3946.2	3825.8	3751.4
30°	3894.9	3910.8	4006.5	4151.7	4279.2	4357.2	4383.7	4188.9	4151.7	3967.5	3852.4
32.5°	4236.7	4243.8	4341.2	4481.1	4594.5	4668.9	4631.7	4405.0	4350.1	4142.8	3985.2
35°	4628.1	4628.1	4753.9	4867.3	4957.6	4978.8	4908.0	4649.4	4585.6	4360.7	4164.1
37.5°	5012.5	5023.1	5140.0	5274.6	5354.3	5350.8	5221.5	4938.1	4865.5	4621.1	4403.2
40°	5428.7	5451.8	5568.7	5719.2	5795.4	5784.7	5586.4	5271.1	5196.7	4908.0	4695.5
42.5°	5811.3	5848.5	5984.9	6139.0	6222.2	6215.1	6007.9	5653.7	5581.0	5255.1	5042.6
45°	6116.0	6154.9	6325.0	6539.3	6672.1	6659.7	6450.7	6050.4	5961.9	5620.0	5386.2
47.5°	6383.4	6424.1	6613.7	6840.4	7051.1	7072.4	6881.1	6450.7	6356.8	6011.5	5747.5
50°	6588.9	6608.3	6820.9	7068.9	7313.3	7432.0	7265.5	6852.8	6739.4	6397.6	6100.0
52.5°	6572.9	6599.5	6861.6	7198.2	7525.8	7720.7	7605.5	7231.8	7122.0	6750.0	6459.6
55°	6248.8	6275.4	6587.1	7077.7	7644.5	7931.4	7919.0	7593.1	7513.4	7109.6	6833.3
57.5°	5775.9	5834.3	6144.3	6673.9	7488.6	8099.7	8149.3	7922.6	7839.3	7462.1	7203.5
60°	4929.2	5007.2	5365.0	6052.2	6989.2	8043.0	8395.5	8200.7	8149.3	7789.7	7538.2
62.5°	3581.4	3638.0	4114.5	5016.0	6248.8	7639.2	8602.7	8487.6	8448.6	8083.8	7841.1
65°	2144.9	2274.2	2656.8	3547.7	5040.8	6877.6	8489.4	8863.1	8822.3	8386.6	8099.7
67.5°	1085.7	1144.2	1294.7	1923.5	3390.1	5690.9	7920.8	9096.9	9146.5	8645.2	8191.8
70°	673.1	689.0	731.5	949.4	1693.3	3739.0	6477.3	8487.6	8730.2	8604.5	7952.7
72.5°	540.2	543.8	550.8	591.6	813.0	1748.2	4095.0	6647.3	7084.8	8035.9	7610.8
75°	448.1	449.9	451.7	464.1	506.6	713.8	1992.6	4567.9	5079.8	6829.7	7056.5
77.5°	359.6	350.7	357.8	363.1	373.7	398.5	687.2	2437.2	2956.1	4482.9	5457.1
80°	233.8	230.3	244.4	249.7	260.4	276.3	366.6	827.2	1004.3	1631.3	1735.8
82.5°	125.8	118.7	148.8	143.5	148.8	161.2	216.1	302.9	340.1	492.4	416.2
85°	39.0	39.0	40.7	47.8	58.4	56.7	93.9	148.8	164.7	210.8	155.9
87.5°	7.1	7.1	7.1	7.1	7.1	8.9	19.5	30.1	40.7	72.6	54.9
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°	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3	2575.3
2.5°	2610.7	2594.8	2603.7	2609.0	2607.2	2603.7	2586.0	2582.4	2573.6	2559.4	2555.8
5°	2688.7	2671.0	2672.7	2667.4	2649.7	2626.7	2587.7	2568.2	2552.3	2534.6	2532.8
7.5°	2810.9	2791.4	2786.1	2761.3	2711.7	2658.6	2596.6	2561.2	2534.6	2511.6	2508.0
10°	2966.8	2947.3	2929.6	2871.1	2789.6	2718.8	2637.3	2586.0	2547.0	2518.6	2513.3
12.5°	3140.3	3124.4	3080.1	2995.1	2897.7	2814.4	2731.2	2667.4	2610.7	2568.2	2562.9
15°	3333.4	3298.0	3230.7	3120.9	3028.8	2961.4	2860.5	2773.7	2683.4	2626.7	2614.3
17.5°	3468.0	3437.9	3358.2	3251.9	3179.3	3120.9	3002.2	2878.2	2756.0	2672.7	2655.0
20°	3563.7	3531.8	3441.4	3363.5	3340.5	3290.9	3152.7	3009.3	2867.6	2764.8	2741.8
22.5°	3632.7	3599.1	3507.0	3468.0	3499.9	3491.0	3356.4	3193.5	3025.2	2903.0	2874.7
25°	3698.3	3666.4	3584.9	3599.1	3684.1	3710.7	3565.4	3375.9	3184.6	3041.1	3007.5
27.5°	3760.3	3719.5	3682.3	3760.3	3880.7	3930.3	3776.2	3561.9	3354.7	3207.6	3181.1
30°	3855.9	3808.1	3802.8	3916.1	4107.4	4149.9	3979.9	3765.6	3560.1	3411.3	3377.7
32.5°	3976.3	3932.1	3935.6	4105.6	4327.0	4362.5	4217.2	4017.1	3811.6	3662.8	3616.8
35°	4139.3	4084.4	4114.5	4323.5	4546.7	4612.2	4495.3	4328.8	4128.7	3976.3	3925.0
37.5°	4364.2	4284.5	4346.5	4566.2	4791.1	4888.5	4798.2	4674.2	4475.8	4321.7	4273.9
40°	4651.2	4585.6	4610.4	4853.1	5085.1	5202.0	5145.3	5023.1	4826.5	4665.3	4610.4
42.5°	4991.2	4925.7	4916.8	5175.4	5407.5	5584.6	5529.7	5418.1	5214.4	5030.2	4977.1
45°	5324.2	5264.0	5276.4	5540.3	5800.7	5993.7	5938.8	5807.8	5586.4	5373.8	5331.3
47.5°	5671.4	5621.8	5632.4	5912.3	6199.2	6392.3	6323.2	6163.8	5905.2	5678.5	5627.1
50°	6027.4	5970.7	5986.7	6280.7	6590.6	6773.1	6666.8	6431.2	6146.1	5924.7	5880.4
52.5°	6381.6	6314.3	6355.1	6633.1	6953.7	7099.0	6902.4	6617.2	6340.9	6121.3	6071.7
55°	6789.0	6718.2	6673.9	6971.4	7288.5	7348.7	7079.5	6746.5	6418.8	6169.1	6139.0
57.5°	7161.0	7100.7	7017.5	7315.1	7548.9	7504.6	7215.9	6711.1	6229.3	5908.7	5866.2
60°	7493.9	7442.6	7370.0	7623.2	7729.5	7630.3	7106.1	6291.3	5761.7	5427.0	5407.5
62.5°	7800.4	7745.5	7678.2	7894.2	7880.1	7649.8	6606.6	5646.6	4938.1	4578.6	4546.7
65°	8043.0	7993.4	7973.9	8144.0	8120.9	7269.0	5829.0	4590.9	3607.9	3202.3	3189.9
67.5°	8112.1	8092.6	8197.1	8485.8	8126.3	6503.8	4571.5	3044.7	1937.7	1553.3	1530.3
70°	7853.5	7851.7	8151.1	8563.7	7389.4	4968.2	2697.5	1372.7	974.2	864.3	850.2
72.5°	7517.0	7511.7	7749.0	7387.7	5480.1	2718.8	1135.3	735.0	609.3	579.2	579.2
75°	6964.4	6950.2	7129.1	5620.0	3081.9	1023.8	602.2	504.8	478.2	472.9	472.9
77.5°	5676.7	5558.0	5276.4	3473.3	1075.1	503.0	398.5	396.7	380.8	379.0	379.0
80°	1866.8	1866.8	2169.7	1324.9	474.7	310.0	281.6	295.8	279.8	269.2	267.5
82.5°	304.6	419.8	596.9	379.0	256.8	193.1	173.6	184.2	193.1	154.1	154.1
85°	120.4	157.6	230.3	177.1	118.7	77.9	83.2	92.1	81.5	70.8	69.1
87.5°	46.1	56.7	81.5	42.5	24.8	14.2	8.9	8.9	7.1	7.1	7.1
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)