

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: P636213

Luminaire Tested: GWS-SA3F-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636213
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-SA3F-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24825.1 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

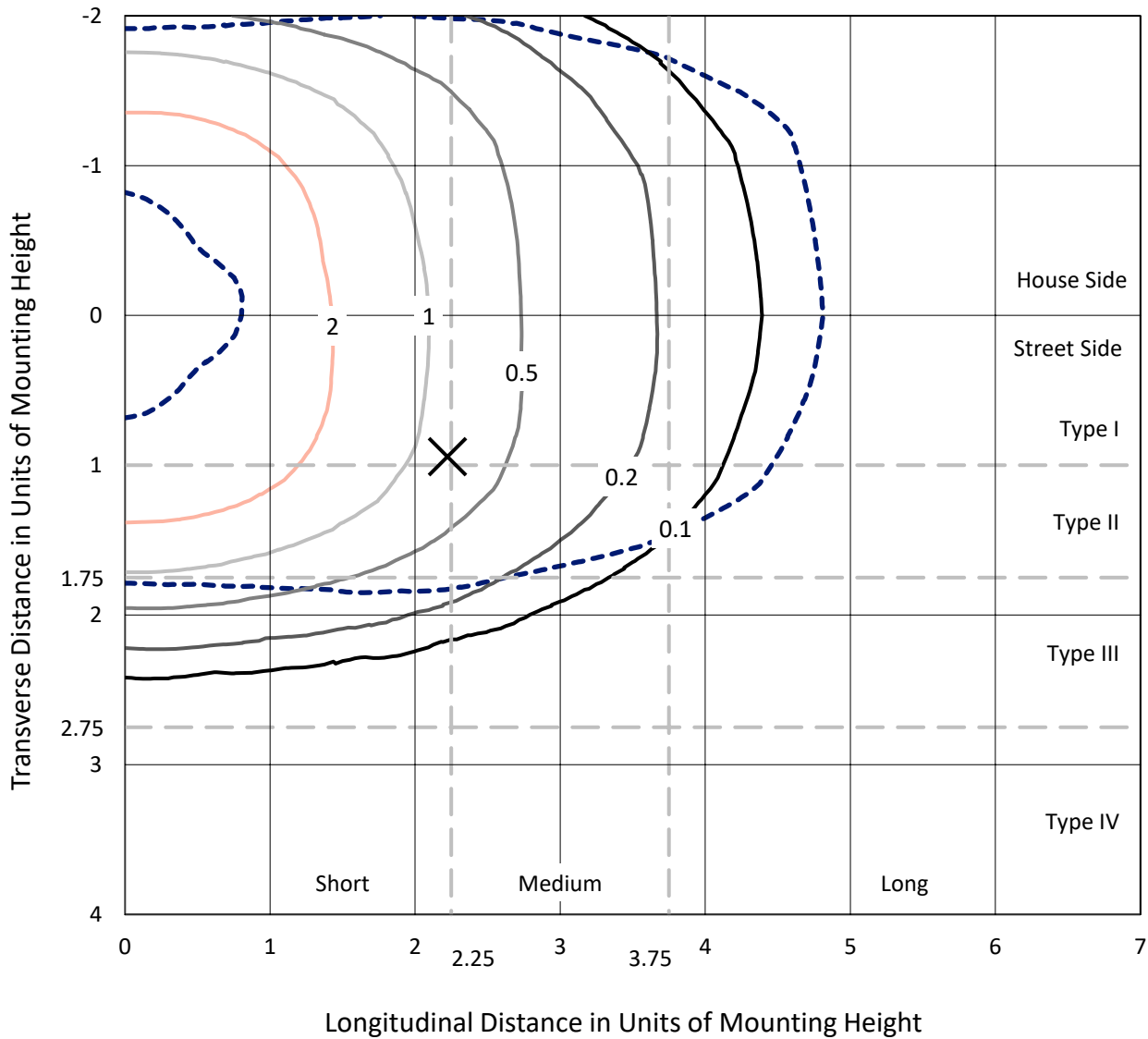
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

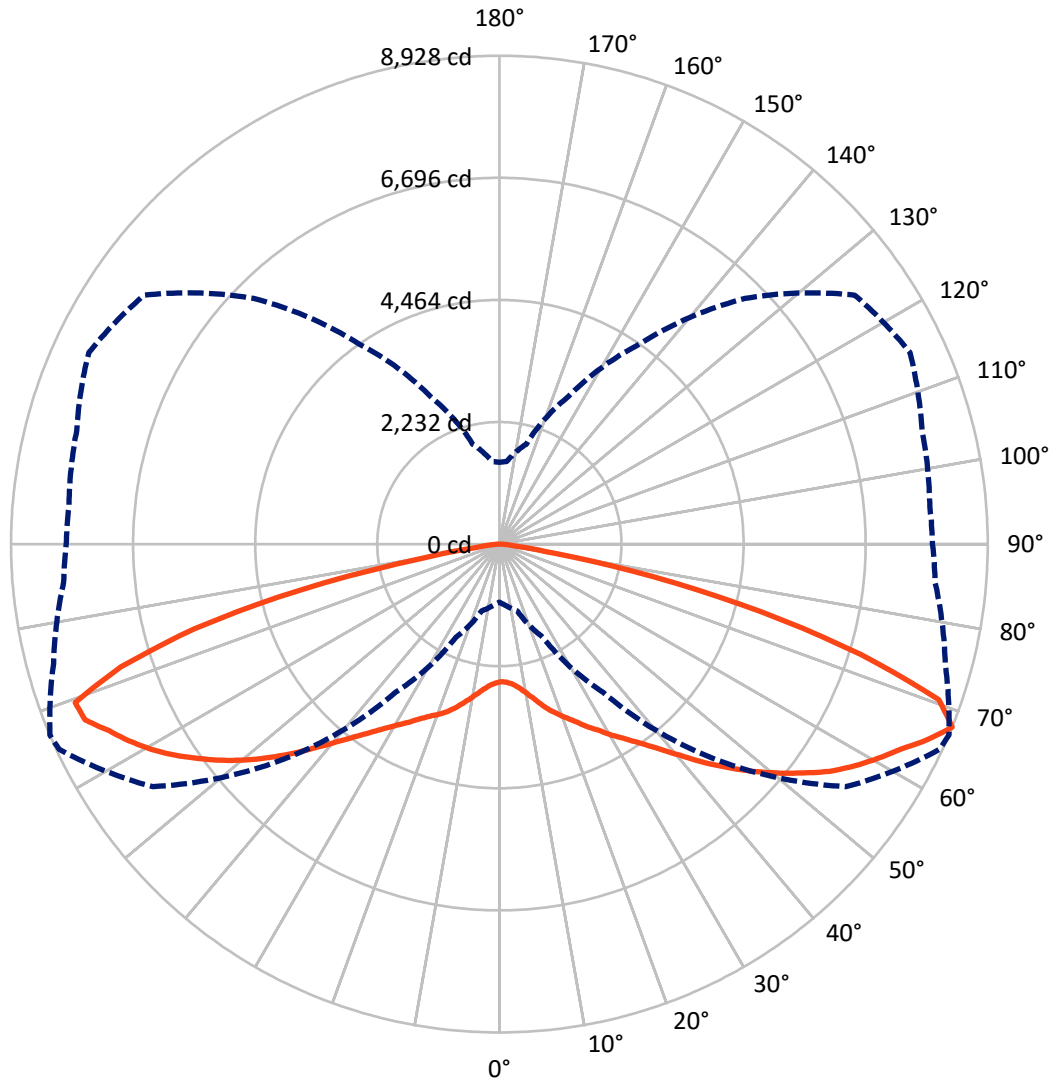
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	12275.6	0.0	12275.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	12549.5	0.0	12549.5
	% Fixture	50.6	0.0	50.6
Total	Lumens	24825.1	0.0	24825.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	1.0
10°-20°	833.2	3.4
20°-30°	1634.7	6.6
30°-40°	2785.0	11.2
40°-50°	4472.2	18.0
50°-60°	6076.7	24.5
60°-70°	5812.8	23.4
70°-80°	2763.6	11.1
80°-90°	200.3	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°	24825.1	100.0
0°-180°	24825.1	100.0

Coefficient of Utilization



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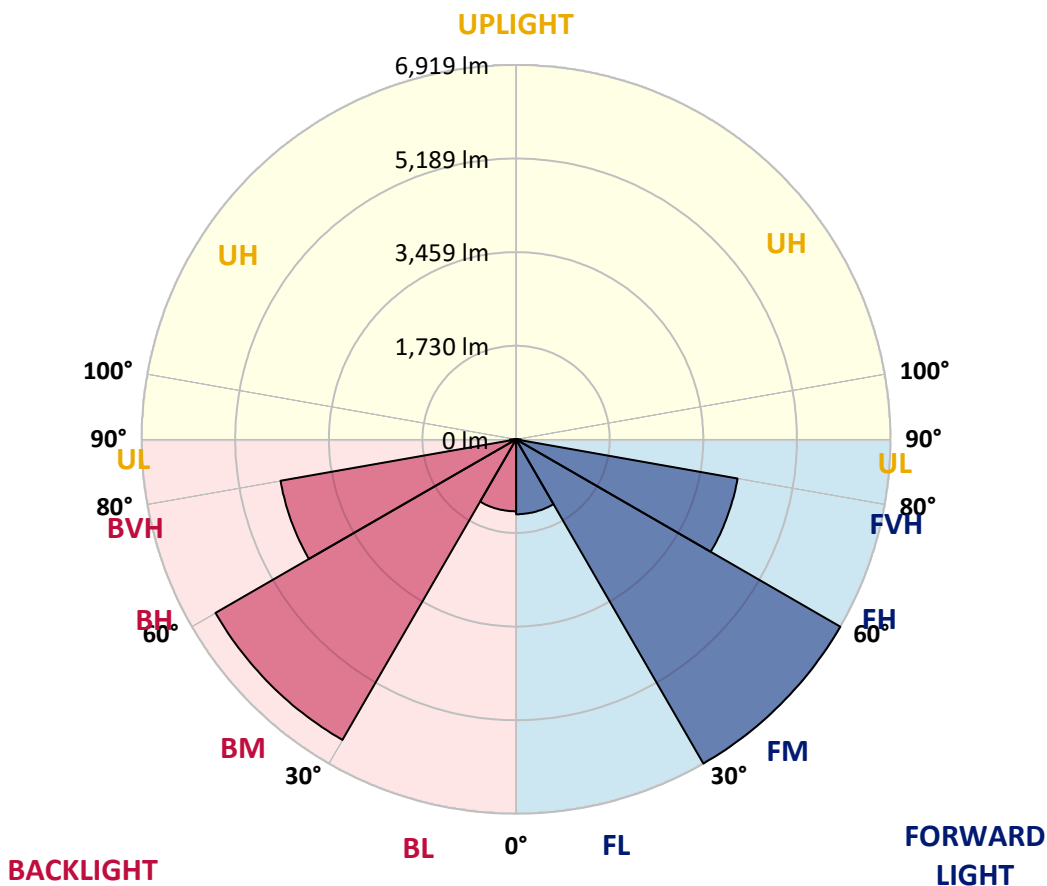
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1384.2	5.6			
FM (30°-60°)	6919.0	27.9			
FH (60°-80°)	4156.4	16.7			G2/5000
FVH (80°-90°)	90.0	0.4			G1/100
BL (0°-30°)	1330.3	5.4	B3/2500		
BM (30°-60°)	6414.9	25.8	B4/8500		
BH (60°-80°)	4420.1	17.8	B4/5000		G4/5000
BVH (80°-90°)	110.3	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°	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
2.5°	2461.8	2465.3	2470.5	2480.8	2491.2	2506.8	2522.3	2520.6	2527.5	2532.7	2537.9
5°	2448.0	2451.4	2460.1	2473.9	2489.5	2515.4	2548.3	2562.1	2572.5	2591.5	2608.8
7.5°	2477.4	2484.3	2496.4	2515.4	2539.6	2572.5	2617.4	2641.6	2657.2	2691.7	2721.1
10°	2517.1	2525.8	2550.0	2586.3	2622.6	2672.7	2729.8	2766.1	2776.5	2821.4	2876.7
12.5°	2555.2	2565.5	2605.3	2671.0	2736.7	2804.1	2871.5	2916.5	2919.9	2980.5	3042.7
15°	2615.7	2624.3	2677.9	2762.6	2862.9	2956.3	3039.2	3070.4	3084.2	3127.4	3205.2
17.5°	2748.8	2759.2	2828.3	2919.9	3025.4	3123.9	3206.9	3232.9	3232.9	3269.2	3333.1
20°	2892.3	2902.7	2994.3	3111.8	3239.8	3340.0	3404.0	3379.8	3371.2	3381.5	3426.5
22.5°	3053.1	3072.1	3160.3	3296.8	3454.1	3576.9	3609.7	3537.1	3512.9	3488.7	3499.1
25°	3258.8	3281.3	3367.7	3512.9	3666.8	3796.5	3815.5	3703.1	3689.3	3604.6	3573.4
27.5°	3495.6	3512.9	3620.1	3763.6	3907.1	4016.0	4036.8	3898.5	3851.8	3734.2	3661.6
30°	3801.6	3817.2	3910.6	4052.3	4176.8	4252.9	4278.8	4088.6	4052.3	3872.5	3760.1
32.5°	4135.3	4142.2	4237.3	4373.9	4484.5	4557.1	4520.8	4299.5	4245.9	4043.7	3889.8
35°	4517.4	4517.4	4640.1	4750.8	4838.9	4859.7	4790.5	4538.1	4475.9	4256.3	4064.4
37.5°	4892.5	4902.9	5017.0	5148.4	5226.2	5222.7	5096.5	4819.9	4749.0	4510.4	4297.8
40°	5298.8	5321.3	5435.4	5582.3	5656.6	5646.3	5452.6	5144.9	5072.3	4790.5	4583.1
42.5°	5672.2	5708.5	5841.6	5992.0	6073.3	6066.4	5864.1	5518.3	5447.5	5129.4	4921.9
45°	5969.6	6007.6	6173.6	6382.7	6512.4	6500.3	6296.3	5905.6	5819.2	5485.5	5257.3
47.5°	6230.6	6270.4	6455.4	6676.6	6882.4	6903.1	6716.4	6296.3	6204.7	5867.6	5610.0
50°	6431.1	6450.2	6657.6	6899.7	7138.2	7254.1	7091.6	6688.7	6578.1	6244.4	5954.0
52.5°	6415.6	6441.5	6697.4	7025.9	7345.7	7535.9	7423.5	7058.7	6951.5	6588.5	6304.9
55°	6099.2	6125.1	6429.4	6908.3	7461.5	7741.6	7729.5	7411.4	7333.6	6939.4	6669.7
57.5°	5637.6	5694.7	5997.2	6514.1	7309.4	7905.8	7954.2	7732.9	7651.7	7283.4	7031.0
60°	4811.3	4887.3	5236.5	5907.3	6821.9	7850.5	8194.5	8004.4	7954.2	7603.3	7357.8
62.5°	3495.6	3551.0	4016.0	4896.0	6099.2	7456.3	8396.8	8284.4	8246.4	7890.3	7653.4
65°	2093.6	2219.8	2593.2	3462.8	4920.2	6712.9	8286.2	8650.9	8611.2	8185.9	7905.8
67.5°	1059.8	1116.8	1263.8	1877.5	3308.9	5554.6	7731.2	8879.1	8927.5	8438.3	7995.7
70°	656.9	672.5	714.0	926.6	1652.7	3649.5	6322.2	8284.4	8521.3	8398.5	7762.3
72.5°	527.3	530.7	537.7	577.4	793.5	1706.3	3997.0	6488.2	6915.2	7843.6	7428.7
75°	437.4	439.1	440.8	452.9	494.4	696.7	1944.9	4458.6	4958.2	6666.3	6887.6
77.5°	350.9	342.3	349.2	354.4	364.8	389.0	670.8	2378.8	2885.4	4375.6	5326.4
80°	228.2	224.7	238.6	243.8	254.1	269.7	357.9	807.4	980.2	1592.2	1694.2
82.5°	122.7	115.8	145.2	140.0	145.2	157.3	210.9	295.6	331.9	480.6	406.3
85°	38.0	38.0	39.8	46.7	57.1	55.3	91.6	145.2	160.8	205.7	152.1
87.5°	6.9	6.9	6.9	6.9	6.9	8.6	19.0	29.4	39.8	70.9	53.6
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°	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7	2513.7
2.5°	2548.3	2532.7	2541.3	2546.5	2544.8	2541.3	2524.1	2520.6	2512.0	2498.1	2494.7
5°	2624.3	2607.0	2608.8	2603.6	2586.3	2563.8	2525.8	2506.8	2491.2	2473.9	2472.2
7.5°	2743.6	2724.6	2719.4	2695.2	2646.8	2594.9	2534.4	2499.8	2473.9	2451.4	2448.0
10°	2895.7	2876.7	2859.4	2802.4	2722.9	2653.7	2574.2	2524.1	2486.0	2458.4	2453.2
12.5°	3065.2	3049.6	3006.4	2923.4	2828.3	2747.1	2665.8	2603.6	2548.3	2506.8	2501.6
15°	3253.6	3219.0	3153.3	3046.2	2956.3	2890.6	2792.0	2707.3	2619.1	2563.8	2551.7
17.5°	3385.0	3355.6	3277.8	3174.1	3103.2	3046.2	2930.3	2809.3	2690.0	2608.8	2591.5
20°	3478.4	3447.2	3359.1	3283.0	3260.5	3212.1	3077.3	2937.2	2798.9	2698.7	2676.2
22.5°	3545.8	3512.9	3423.0	3385.0	3416.1	3407.5	3276.1	3117.0	2952.8	2833.5	2805.8
25°	3609.7	3578.6	3499.1	3512.9	3595.9	3621.8	3480.1	3295.1	3108.4	2968.4	2935.5
27.5°	3670.2	3630.5	3594.2	3670.2	3787.8	3836.2	3685.8	3476.6	3274.4	3130.9	3104.9
30°	3763.6	3716.9	3711.7	3822.4	4009.1	4050.6	3884.6	3675.4	3474.9	3329.7	3296.8
32.5°	3881.2	3837.9	3841.4	4007.4	4223.5	4258.0	4116.3	3920.9	3720.4	3575.2	3530.2
35°	4040.2	3986.6	4016.0	4220.0	4437.8	4501.8	4387.7	4225.2	4029.8	3881.2	3831.0
37.5°	4259.8	4182.0	4242.5	4456.9	4676.4	4771.5	4683.3	4562.3	4368.7	4218.3	4171.6
40°	4539.8	4475.9	4500.1	4736.9	4963.4	5077.5	5022.2	4902.9	4711.0	4553.7	4500.1
42.5°	4871.8	4807.8	4799.2	5051.6	5278.0	5450.9	5397.3	5288.4	5089.6	4909.8	4857.9
45°	5196.8	5138.0	5150.1	5407.7	5661.8	5850.3	5796.7	5668.7	5452.6	5245.2	5203.7
47.5°	5535.6	5487.2	5497.6	5770.7	6050.8	6239.3	6171.8	6016.2	5763.8	5542.5	5492.4
50°	5883.1	5827.8	5843.4	6130.3	6432.9	6610.9	6507.2	6277.3	5998.9	5782.8	5739.6
52.5°	6228.9	6163.2	6202.9	6474.4	6787.3	6929.0	6737.1	6458.8	6189.1	5974.7	5926.3
55°	6626.5	6557.4	6514.1	6804.6	7114.0	7172.8	6910.0	6585.0	6265.2	6021.4	5992.0
57.5°	6989.6	6930.8	6849.5	7140.0	7368.2	7324.9	7043.1	6550.4	6080.2	5767.3	5725.8
60°	7314.6	7264.4	7193.5	7440.8	7544.5	7447.7	6936.0	6140.7	5623.8	5297.1	5278.0
62.5°	7613.6	7560.1	7494.4	7705.3	7691.4	7466.7	6448.4	5511.4	4819.9	4469.0	4437.8
65°	7850.5	7802.1	7783.1	7949.0	7926.6	7095.0	5689.5	4481.1	3521.6	3125.7	3113.6
67.5°	7917.9	7898.9	8000.9	8282.7	7931.7	6348.2	4462.0	2971.8	1891.3	1516.2	1493.7
70°	7665.5	7663.8	7956.0	8358.8	7212.6	4849.3	2633.0	1339.8	950.8	843.7	829.8
72.5°	7337.0	7331.9	7563.5	7210.8	5348.9	2653.7	1108.2	717.5	594.7	565.3	565.3
75°	6797.7	6783.8	6958.4	5485.5	3008.1	999.2	587.8	492.7	466.8	461.6	461.6
77.5°	5540.8	5425.0	5150.1	3390.2	1049.4	491.0	389.0	387.3	371.7	370.0	370.0
80°	1822.2	1822.2	2117.8	1293.1	463.3	302.5	274.9	288.7	273.2	262.8	261.0
82.5°	297.4	409.7	582.6	370.0	250.7	188.4	169.4	179.8	188.4	150.4	150.4
85°	117.6	153.9	224.7	172.9	115.8	76.1	81.3	89.9	79.5	69.2	67.4
87.5°	44.9	55.3	79.5	41.5	24.2	13.8	8.6	8.6	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)