

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: P635718

Luminaire Tested: GWS-SA3E-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635718
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-SA3E-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: 22328.4 lumens
Efficiency: N/A
Efficacy: 140.3 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

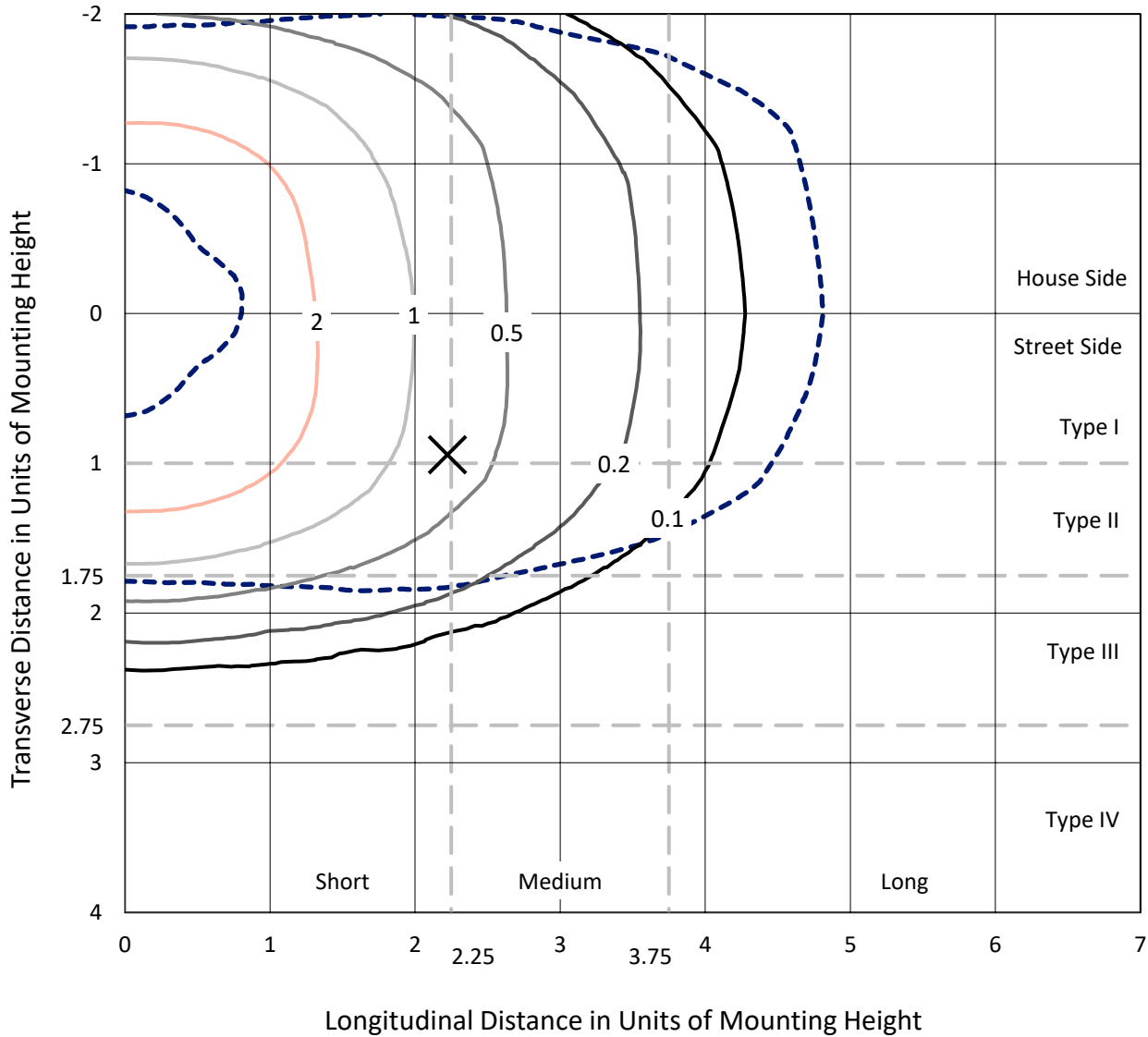
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

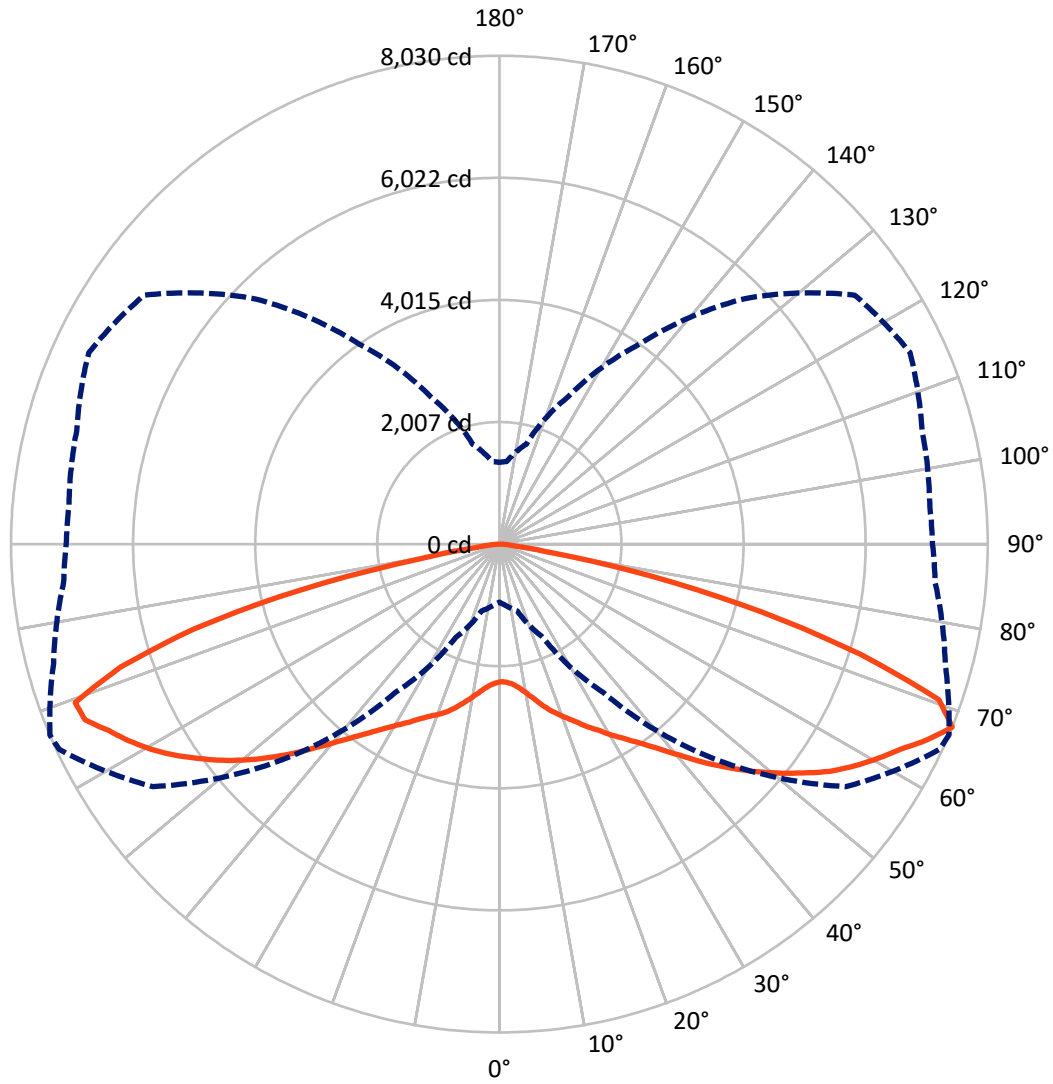
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	11041.0	0.0	11041.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	11287.4	0.0	11287.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	22328.4	0.0	22328.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.0
10°-20°	749.4	3.4
20°-30°	1470.3	6.6
30°-40°	2504.9	11.2
40°-50°	4022.4	18.0
50°-60°	5465.6	24.5
60°-70°	5228.2	23.4
70°-80°	2485.7	11.1
80°-90°	180.1	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°	22328.4	100.0
0°-180°	22328.4	100.0

Coefficient of Utilization



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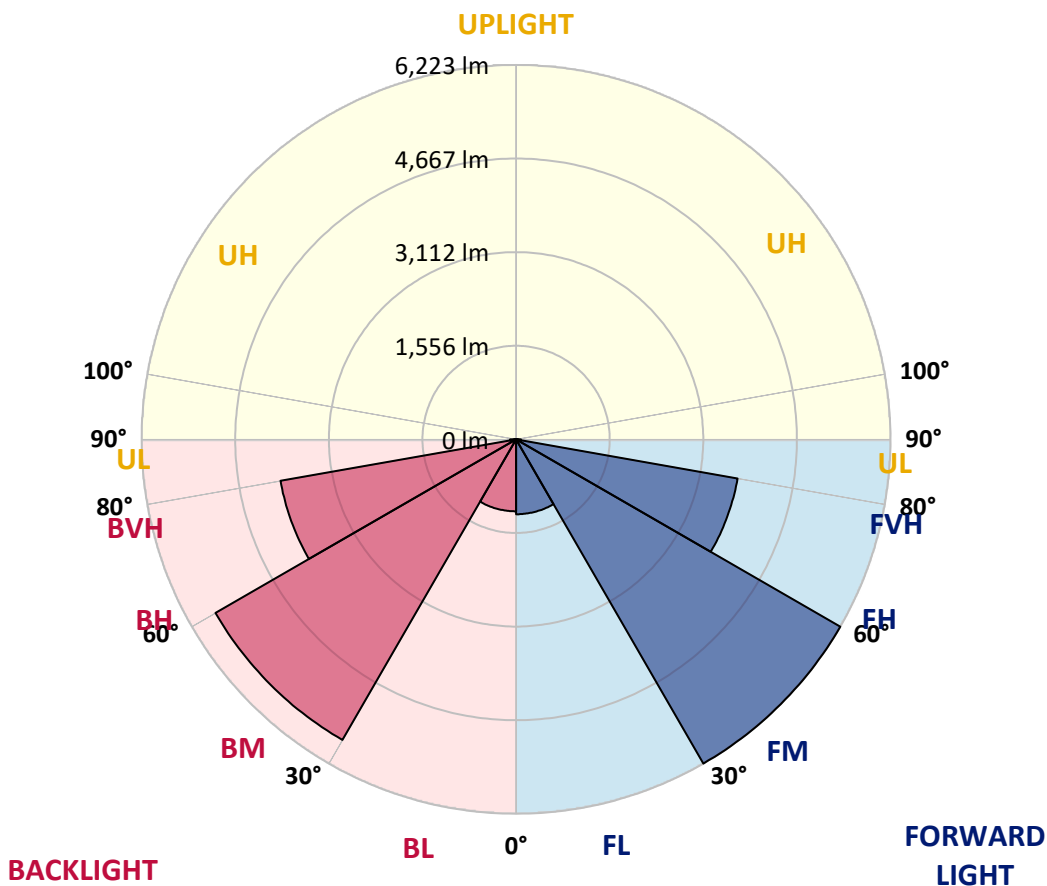
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.0	5.6			
FM (30°-60°)	6223.1	27.9			
FH (60°-80°)	3738.4	16.7			G2/5000
FVH (80°-90°)	81.0	0.4			G1/100
BL (0°-30°)	1196.5	5.4	B3/2500		
BM (30°-60°)	5769.8	25.8	B4/8500		
BH (60°-80°)	3975.5	17.8	B4/5000		G4/5000
BVH (80°-90°)	99.2	0.4			G1/100
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°	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9
2.5°	2214.2	2217.3	2222.0	2231.3	2240.7	2254.7	2268.6	2267.1	2273.3	2278.0	2282.6
5°	2201.8	2204.9	2212.7	2225.1	2239.1	2262.4	2292.0	2304.4	2313.7	2330.8	2346.4
7.5°	2228.2	2234.4	2245.3	2262.4	2284.2	2313.7	2354.2	2375.9	2389.9	2421.0	2447.5
10°	2264.0	2271.8	2293.5	2326.2	2358.8	2403.9	2455.2	2487.9	2497.2	2537.7	2587.4
12.5°	2298.2	2307.5	2343.3	2402.4	2461.5	2522.1	2582.7	2623.2	2626.3	2680.7	2736.7
15°	2352.6	2360.4	2408.6	2484.8	2575.0	2658.9	2733.6	2761.6	2774.0	2812.9	2882.8
17.5°	2472.3	2481.7	2543.9	2626.3	2721.1	2809.8	2884.4	2907.7	2907.7	2940.4	2997.9
20°	2601.4	2610.7	2693.1	2798.9	2913.9	3004.1	3061.7	3039.9	3032.1	3041.5	3081.9
22.5°	2746.0	2763.1	2842.4	2965.3	3106.8	3217.2	3246.7	3181.4	3159.6	3137.9	3147.2
25°	2931.1	2951.3	3029.0	3159.6	3298.0	3414.6	3431.7	3330.7	3318.2	3242.0	3214.0
27.5°	3144.1	3159.6	3256.0	3385.1	3514.2	3612.1	3630.8	3506.4	3464.4	3358.7	3293.4
30°	3419.3	3433.3	3517.3	3644.8	3756.7	3825.1	3848.5	3677.4	3644.8	3483.1	3382.0
32.5°	3719.4	3725.6	3811.1	3934.0	4033.5	4098.8	4066.2	3867.1	3818.9	3637.0	3498.6
35°	4063.0	4063.0	4173.4	4273.0	4352.3	4370.9	4308.7	4081.7	4025.7	3828.2	3655.7
37.5°	4400.5	4409.8	4512.4	4630.6	4700.6	4697.5	4583.9	4335.2	4271.4	4056.8	3865.6
40°	4765.9	4786.1	4888.7	5020.9	5087.7	5078.4	4904.3	4627.5	4562.2	4308.7	4122.1
42.5°	5101.7	5134.4	5254.1	5389.4	5462.5	5456.3	5274.3	4963.4	4899.6	4613.5	4426.9
45°	5369.2	5403.4	5552.7	5740.8	5857.4	5846.6	5663.1	5311.7	5233.9	4933.8	4728.6
47.5°	5604.0	5639.7	5806.1	6005.2	6190.2	6208.9	6040.9	5663.1	5580.7	5277.4	5045.8
50°	5784.4	5801.5	5988.1	6205.7	6420.3	6524.5	6378.3	6016.0	5916.5	5616.4	5355.2
52.5°	5770.4	5793.7	6023.8	6319.3	6606.9	6778.0	6676.9	6348.8	6252.4	5925.9	5670.8
55°	5485.8	5509.1	5782.8	6213.5	6711.1	6963.0	6952.1	6666.0	6596.0	6241.5	5998.9
57.5°	5070.6	5122.0	5394.1	5859.0	6574.3	7110.7	7154.3	6955.2	6882.1	6550.9	6323.9
60°	4327.4	4395.8	4709.9	5313.2	6135.8	7061.0	7370.4	7199.3	7154.3	6838.6	6617.8
62.5°	3144.1	3193.8	3612.1	4403.6	5485.8	6706.4	7552.3	7451.2	7417.0	7096.7	6883.7
65°	1883.0	1996.5	2332.4	3114.5	4425.3	6037.8	7452.8	7780.9	7745.1	7362.6	7110.7
67.5°	953.2	1004.5	1136.7	1688.7	2976.1	4996.0	6953.7	7986.1	8029.7	7589.6	7191.6
70°	590.9	604.9	642.2	833.4	1486.5	3282.5	5686.4	7451.2	7664.3	7553.9	6981.7
72.5°	474.3	477.4	483.6	519.3	713.7	1534.7	3595.0	5835.7	6219.7	7054.7	6681.6
75°	393.4	395.0	396.5	407.4	444.7	626.6	1749.3	4010.2	4459.6	5995.8	6194.9
77.5°	315.7	307.9	314.1	318.8	328.1	349.9	603.3	2139.6	2595.2	3935.5	4790.8
80°	205.3	202.1	214.6	219.2	228.6	242.6	321.9	726.2	881.6	1432.1	1523.8
82.5°	110.4	104.2	130.6	125.9	130.6	141.5	189.7	265.9	298.5	432.3	365.4
85°	34.2	34.2	35.8	42.0	51.3	49.8	82.4	130.6	144.6	185.0	136.8
87.5°	6.2	6.2	6.2	6.2	6.2	7.8	17.1	26.4	35.8	63.8	48.2
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°	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9	2260.9
2.5°	2292.0	2278.0	2285.8	2290.4	2288.9	2285.8	2270.2	2267.1	2259.3	2246.9	2243.8
5°	2360.4	2344.8	2346.4	2341.7	2326.2	2306.0	2271.8	2254.7	2240.7	2225.1	2223.6
7.5°	2467.7	2450.6	2445.9	2424.1	2380.6	2334.0	2279.5	2248.4	2225.1	2204.9	2201.8
10°	2604.5	2587.4	2571.9	2520.5	2449.0	2386.8	2315.3	2270.2	2236.0	2211.1	2206.5
12.5°	2756.9	2742.9	2704.0	2629.4	2543.9	2470.8	2397.7	2341.7	2292.0	2254.7	2250.0
15°	2926.4	2895.3	2836.2	2739.8	2658.9	2599.9	2511.2	2435.0	2355.7	2306.0	2295.1
17.5°	3044.6	3018.1	2948.2	2854.9	2791.1	2739.8	2635.6	2526.8	2419.5	2346.4	2330.8
20°	3128.5	3100.5	3021.2	2952.8	2932.6	2889.1	2767.8	2641.8	2517.4	2427.3	2407.0
22.5°	3189.2	3159.6	3078.8	3044.6	3072.6	3064.8	2946.6	2803.5	2655.8	2548.5	2523.7
25°	3246.7	3218.7	3147.2	3159.6	3234.3	3257.6	3130.1	2963.7	2795.8	2669.8	2640.3
27.5°	3301.1	3265.4	3232.7	3301.1	3406.9	3450.4	3315.1	3127.0	2945.0	2816.0	2792.7
30°	3385.1	3343.1	3338.4	3438.0	3605.9	3643.2	3493.9	3305.8	3125.4	2994.8	2965.3
32.5°	3490.8	3452.0	3455.1	3604.3	3798.7	3829.8	3702.3	3526.6	3346.2	3215.6	3175.2
35°	3633.9	3585.7	3612.1	3795.6	3991.5	4049.0	3946.4	3800.3	3624.6	3490.8	3445.7
37.5°	3831.4	3761.4	3815.8	4008.6	4206.1	4291.6	4212.3	4103.5	3929.3	3794.0	3752.1
40°	4083.3	4025.7	4047.5	4260.5	4464.2	4566.8	4517.1	4409.8	4237.2	4095.7	4047.5
42.5°	4381.8	4324.3	4316.5	4543.5	4747.2	4902.7	4854.5	4756.5	4577.7	4416.0	4369.4
45°	4674.1	4621.3	4632.2	4863.8	5092.4	5261.9	5213.7	5098.6	4904.3	4717.7	4680.4
47.5°	4978.9	4935.4	4944.7	5190.4	5442.3	5611.8	5551.1	5411.2	5184.2	4985.1	4940.0
50°	5291.4	5241.7	5255.7	5513.8	5785.9	5946.1	5852.8	5646.0	5395.6	5201.3	5162.4
52.5°	5602.4	5543.3	5579.1	5823.2	6104.7	6232.2	6059.6	5809.2	5566.7	5373.9	5330.3
55°	5960.1	5897.9	5859.0	6120.2	6398.6	6451.4	6215.1	5922.7	5635.1	5415.8	5389.4
57.5°	6286.6	6233.7	6160.7	6421.9	6627.1	6588.3	6334.8	5891.6	5468.7	5187.3	5149.9
60°	6578.9	6533.8	6470.1	6692.4	6785.7	6698.7	6238.4	5523.1	5058.2	4764.3	4747.2
62.5°	6847.9	6799.7	6740.6	6930.3	6917.9	6715.8	5799.9	4957.1	4335.2	4019.5	3991.5
65°	7061.0	7017.4	7000.3	7149.6	7129.4	6381.5	5117.3	4030.4	3167.4	2811.3	2800.4
67.5°	7121.6	7104.5	7196.2	7449.7	7134.0	5709.7	4013.3	2672.9	1701.1	1363.7	1343.5
70°	6894.6	6893.0	7155.8	7518.1	6487.2	4361.6	2368.2	1205.1	855.2	758.8	746.4
72.5°	6599.1	6594.5	6802.8	6485.6	4811.0	2386.8	996.7	645.3	534.9	508.5	508.5
75°	6114.0	6101.6	6258.6	4933.8	2705.6	898.8	528.7	443.2	419.8	415.2	415.2
77.5°	4983.6	4879.4	4632.2	3049.2	943.8	441.6	349.9	348.3	334.3	332.8	332.8
80°	1638.9	1638.9	1904.8	1163.1	416.7	272.1	247.2	259.7	245.7	236.4	234.8
82.5°	267.4	368.5	524.0	332.8	225.5	169.5	152.4	161.7	169.5	135.3	135.3
85°	105.7	138.4	202.1	155.5	104.2	68.4	73.1	80.9	71.5	62.2	60.6
87.5°	40.4	49.8	71.5	37.3	21.8	12.4	7.8	7.8	6.2	6.2	6.2
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)