

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: P637753

Luminaire Tested: GWS-SA4D-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637753
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-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25209.6 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

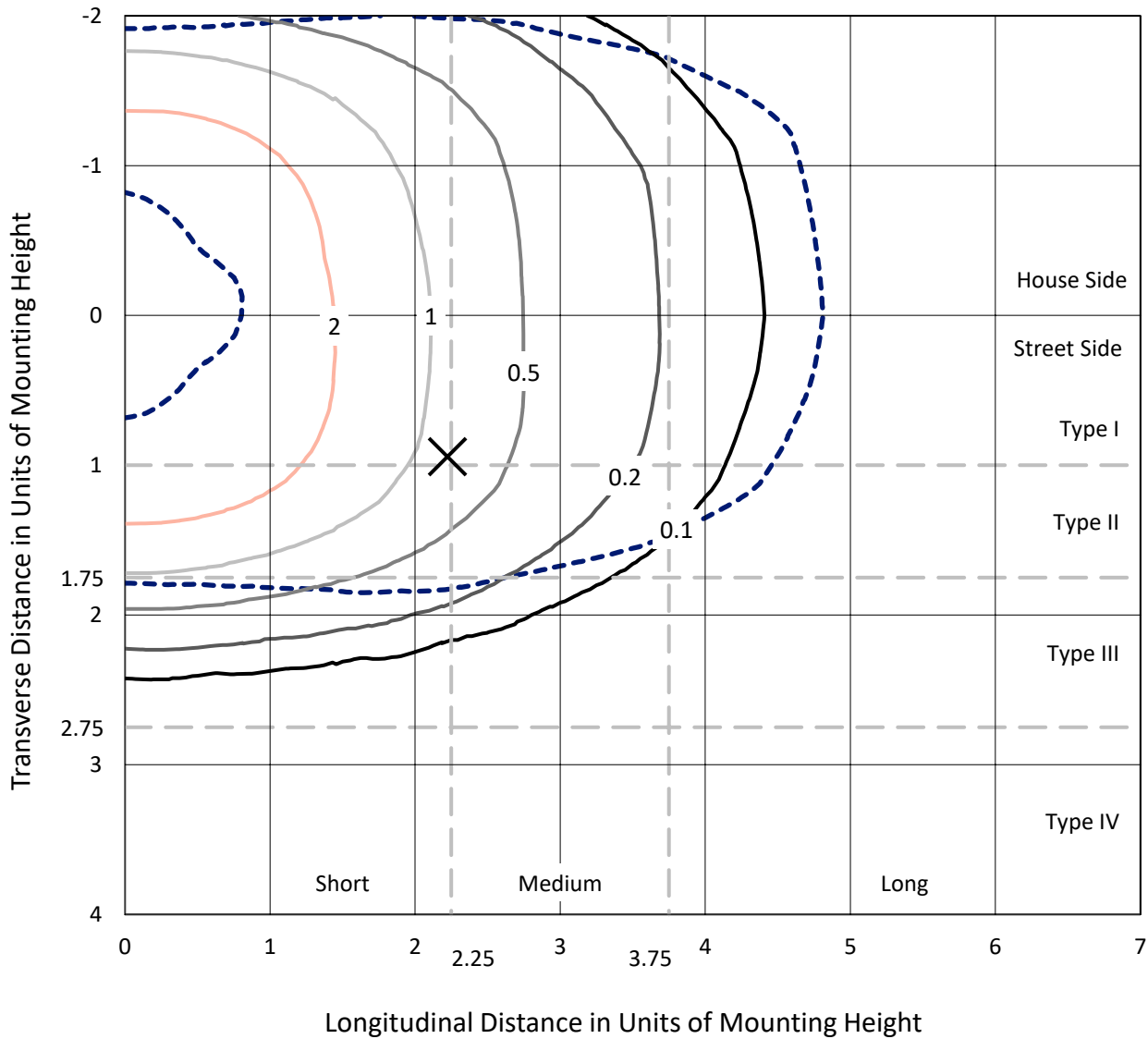
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637753
 CATALOG NUMBER: GWS-SA4D-740-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

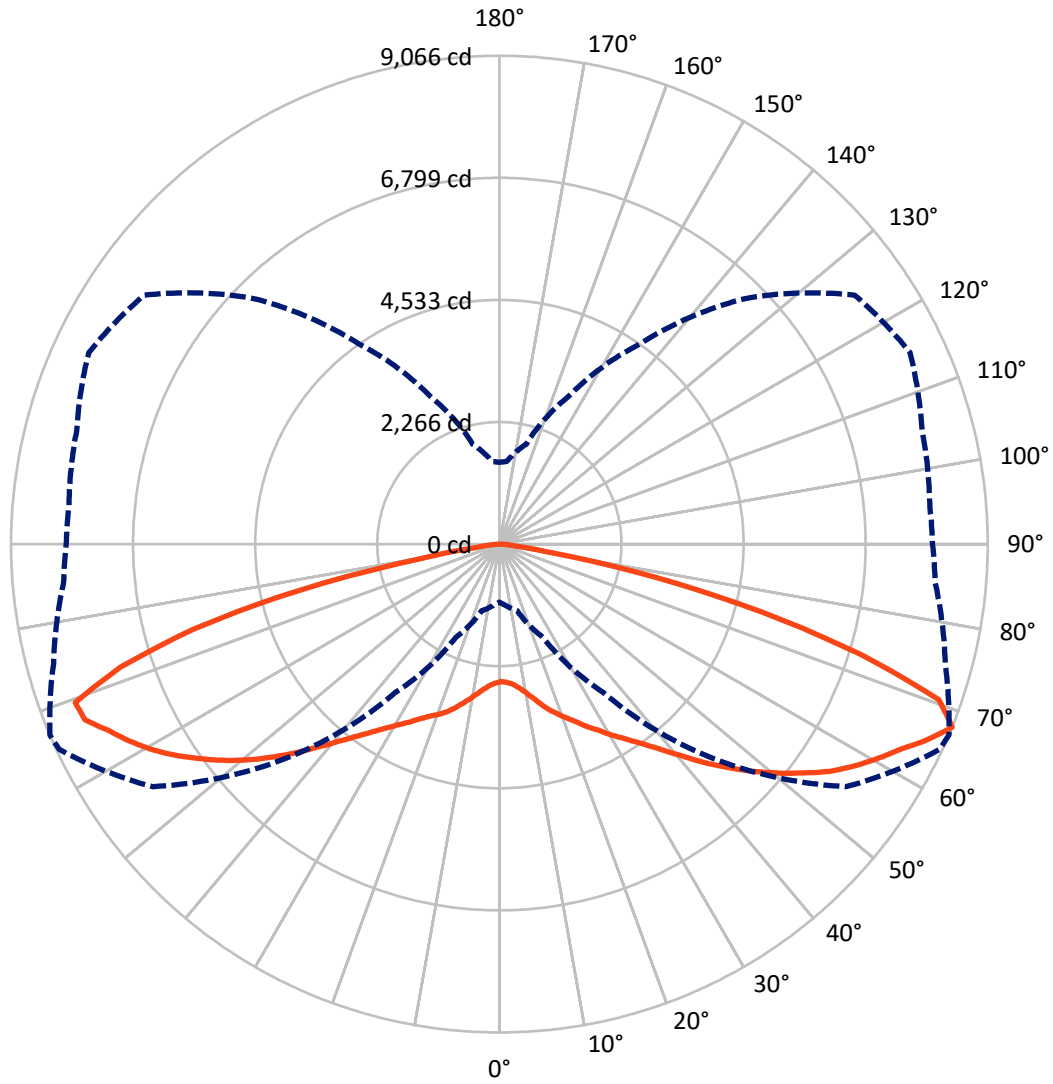
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P637753
CATALOG NUMBER: GWS-SA4D-740-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P637753

CATALOG NUMBER: GWS-SA4D-740-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12465.7	0.0	12465.7
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	12743.9	0.0	12743.9
	% Fixture	50.6	0.0	50.6
Total	Lumens	25209.6	0.0	25209.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.4	1.0
10°-20°	846.1	3.4
20°-30°	1660.0	6.6
30°-40°	2828.1	11.2
40°-50°	4541.4	18.0
50°-60°	6170.8	24.5
60°-70°	5902.8	23.4
70°-80°	2806.4	11.1
80°-90°	203.4	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°	25209.6	100.0
0°-180°	25209.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637753

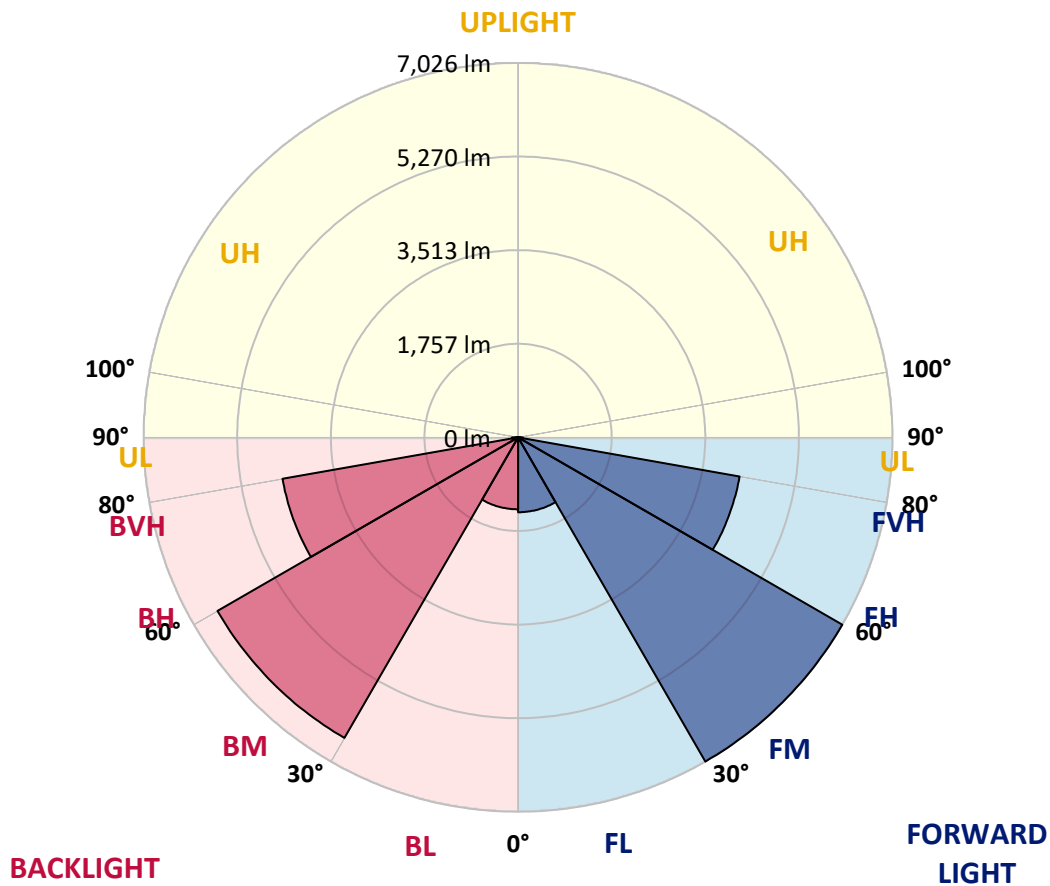
CATALOG NUMBER: GWS-SA4D-740-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1405.6	5.6			
FM (30°-60°)	7026.1	27.9			
FH (60°-80°)	4220.7	16.7			G2/5000
FVH (80°-90°)	91.4	0.4			G1/100
BL (0°-30°)	1350.9	5.4	B3/2500		
BM (30°-60°)	6514.3	25.8	B4/8500		
BH (60°-80°)	4488.5	17.8	B4/5000		G4/5000
BVH (80°-90°)	112.0	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





REPORT NUMBER: P637753
 CATALOG NUMBER: GWS-SA4D-740-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6
2.5°	2499.9	2503.5	2508.7	2519.3	2529.8	2545.6	2561.4	2559.6	2566.7	2571.9	2577.2
5°	2485.9	2489.4	2498.2	2512.2	2528.0	2554.4	2587.7	2601.8	2612.3	2631.6	2649.2
7.5°	2515.7	2522.8	2535.1	2554.4	2578.9	2612.3	2657.9	2682.5	2698.3	2733.4	2763.3
10°	2556.1	2564.9	2589.5	2626.3	2663.2	2714.1	2772.1	2808.9	2819.5	2865.1	2921.3
12.5°	2594.7	2605.3	2645.7	2712.4	2779.1	2847.5	2916.0	2961.7	2965.2	3026.6	3089.8
15°	2656.2	2665.0	2719.4	2805.4	2907.2	3002.0	3086.3	3117.9	3132.0	3175.8	3254.8
17.5°	2791.4	2801.9	2872.1	2965.2	3072.3	3172.3	3256.6	3282.9	3282.9	3319.8	3384.8
20°	2937.1	2947.6	3040.7	3160.0	3290.0	3391.8	3456.7	3432.2	3423.4	3433.9	3479.6
22.5°	3100.4	3119.7	3209.2	3347.9	3507.6	3632.3	3665.6	3591.9	3567.3	3542.8	3553.3
25°	3309.3	3332.1	3419.9	3567.3	3723.6	3855.3	3874.6	3760.5	3746.4	3660.4	3628.8
27.5°	3549.8	3567.3	3676.2	3821.9	3967.6	4078.2	4099.3	3958.8	3911.4	3792.1	3718.3
30°	3860.5	3876.3	3971.1	4115.1	4241.5	4318.7	4345.1	4151.9	4115.1	3932.5	3818.4
32.5°	4199.3	4206.4	4302.9	4441.6	4554.0	4627.7	4590.8	4366.1	4311.7	4106.3	3950.1
35°	4587.3	4587.3	4712.0	4824.3	4913.9	4934.9	4864.7	4608.4	4545.2	4322.2	4127.4
37.5°	4968.3	4978.8	5094.7	5228.1	5307.1	5303.6	5175.4	4894.6	4822.6	4580.3	4364.4
40°	5380.9	5403.7	5519.5	5668.8	5744.3	5733.7	5537.1	5224.6	5150.9	4864.7	4654.0
42.5°	5760.1	5796.9	5932.1	6084.8	6167.4	6160.3	5954.9	5603.8	5531.8	5208.8	4998.1
45°	6062.0	6100.6	6269.2	6481.6	6613.3	6601.0	6393.8	5997.1	5909.3	5570.5	5338.7
47.5°	6327.1	6367.5	6555.3	6780.0	6989.0	7010.0	6820.4	6393.8	6300.8	5958.4	5696.9
50°	6530.8	6550.1	6760.7	7006.5	7248.8	7366.4	7201.4	6792.3	6680.0	6341.2	6046.2
52.5°	6515.0	6541.3	6801.1	7134.7	7459.5	7652.6	7538.5	7168.0	7059.2	6690.5	6402.6
55°	6193.7	6220.0	6529.0	7015.3	7577.1	7861.5	7849.2	7526.2	7447.2	7046.9	6773.0
57.5°	5724.9	5782.9	6090.1	6615.0	7422.6	8028.3	8077.4	7852.7	7770.2	7396.3	7139.9
60°	4885.8	4963.0	5317.7	5998.8	6927.5	7972.1	8321.4	8128.3	8077.4	7721.0	7471.7
62.5°	3549.8	3606.0	4078.2	4971.8	6193.7	7571.8	8526.8	8412.7	8374.1	8012.5	7772.0
65°	2126.0	2254.2	2633.4	3516.4	4996.4	6816.9	8414.5	8784.9	8744.5	8312.7	8028.3
67.5°	1076.2	1134.1	1283.3	1906.6	3360.2	5640.7	7851.0	9016.7	9065.8	8569.0	8119.6
70°	667.1	682.9	725.1	941.0	1678.3	3706.0	6420.2	8412.7	8653.3	8528.6	7882.6
72.5°	535.5	539.0	546.0	586.4	805.8	1732.8	4058.9	6588.7	7022.3	7965.1	7543.7
75°	444.2	445.9	447.7	460.0	502.1	707.5	1975.0	4527.6	5035.0	6769.5	6994.2
77.5°	356.4	347.6	354.6	359.9	370.4	395.0	681.2	2415.7	2930.1	4443.4	5408.9
80°	231.7	228.2	242.3	247.5	258.1	273.9	363.4	819.9	995.4	1616.9	1720.5
82.5°	124.6	117.6	147.5	142.2	147.5	159.8	214.2	300.2	337.1	488.1	412.6
85°	38.6	38.6	40.4	47.4	57.9	56.2	93.0	147.5	163.3	208.9	154.5
87.5°	7.0	7.0	7.0	7.0	7.0	8.8	19.3	29.8	40.4	72.0	54.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637753
 CATALOG NUMBER: GWS-SA4D-740-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6	2552.6
2.5°	2587.7	2571.9	2580.7	2586.0	2584.2	2580.7	2563.1	2559.6	2550.9	2536.8	2533.3
5°	2665.0	2647.4	2649.2	2643.9	2626.3	2603.5	2564.9	2545.6	2529.8	2512.2	2510.5
7.5°	2786.1	2766.8	2761.5	2736.9	2687.8	2635.1	2573.7	2538.6	2512.2	2489.4	2485.9
10°	2940.6	2921.3	2903.7	2845.8	2765.0	2694.8	2614.1	2563.1	2524.5	2496.4	2491.2
12.5°	3112.6	3096.8	3053.0	2968.7	2872.1	2789.6	2707.1	2643.9	2587.7	2545.6	2540.3
15°	3304.0	3268.9	3202.2	3093.3	3002.0	2935.3	2835.3	2749.2	2659.7	2603.5	2591.2
17.5°	3437.4	3407.6	3328.6	3223.2	3151.3	3093.3	2975.7	2852.8	2731.7	2649.2	2631.6
20°	3532.2	3500.6	3411.1	3333.8	3311.0	3261.9	3124.9	2982.7	2842.3	2740.5	2717.6
22.5°	3600.7	3567.3	3476.0	3437.4	3469.0	3460.2	3326.8	3165.3	2998.5	2877.4	2849.3
25°	3665.6	3634.0	3553.3	3567.3	3651.6	3677.9	3534.0	3346.1	3156.5	3014.3	2981.0
27.5°	3727.1	3686.7	3649.8	3727.1	3846.5	3895.6	3742.9	3530.5	3325.1	3179.4	3153.0
30°	3821.9	3774.5	3769.2	3881.6	4071.2	4113.3	3944.8	3732.4	3528.7	3381.2	3347.9
32.5°	3941.3	3897.4	3900.9	4069.4	4288.9	4324.0	4180.0	3981.7	3778.0	3630.5	3584.9
35°	4102.8	4048.4	4078.2	4285.4	4506.6	4571.5	4455.7	4290.6	4092.3	3941.3	3890.4
37.5°	4325.7	4246.7	4308.2	4525.9	4748.8	4845.4	4755.9	4633.0	4436.3	4283.6	4236.2
40°	4610.2	4545.2	4569.8	4810.3	5040.3	5156.1	5100.0	4978.8	4784.0	4624.2	4569.8
42.5°	4947.2	4882.3	4873.5	5129.8	5359.8	5535.3	5480.9	5370.3	5168.4	4985.8	4933.2
45°	5277.3	5217.6	5229.9	5491.5	5749.5	5940.9	5886.5	5756.5	5537.1	5326.4	5284.3
47.5°	5621.4	5572.2	5582.7	5860.1	6144.5	6335.9	6267.4	6109.4	5853.1	5628.4	5577.5
50°	5974.2	5918.1	5933.9	6225.3	6532.5	6713.3	6608.0	6374.5	6091.9	5872.4	5828.5
52.5°	6325.4	6258.6	6299.0	6574.6	6892.4	7036.4	6841.5	6558.8	6285.0	6067.3	6018.1
55°	6729.1	6658.9	6615.0	6910.0	7224.2	7283.9	7017.1	6687.0	6362.2	6114.7	6084.8
57.5°	7097.8	7038.1	6955.6	7250.5	7482.3	7438.4	7152.2	6651.9	6174.4	5856.6	5814.5
60°	7427.9	7376.9	7305.0	7556.0	7661.3	7563.0	7043.4	6235.8	5710.9	5379.1	5359.8
62.5°	7731.6	7677.1	7610.4	7824.6	7810.6	7582.3	6548.3	5596.8	4894.6	4538.2	4506.6
65°	7972.1	7922.9	7903.6	8072.2	8049.3	7204.9	5777.6	4550.5	3576.1	3174.1	3161.8
67.5°	8040.6	8021.2	8124.8	8411.0	8054.6	6446.5	4531.2	3017.8	1920.6	1539.6	1516.8
70°	7784.2	7782.5	8079.2	8488.2	7324.3	4924.4	2673.7	1360.6	965.6	856.7	842.7
72.5°	7450.7	7445.4	7680.7	7322.5	5431.8	2694.8	1125.3	728.6	603.9	574.1	574.1
75°	6902.9	6888.9	7066.2	5570.5	3054.7	1014.7	596.9	500.3	474.0	468.7	468.7
77.5°	5626.6	5509.0	5229.9	3442.7	1065.6	498.6	395.0	393.2	377.4	375.7	375.7
80°	1850.4	1850.4	2150.6	1313.2	470.5	307.2	279.1	293.2	277.4	266.8	265.1
82.5°	302.0	416.1	591.6	375.7	254.6	191.4	172.0	182.6	191.4	152.7	152.7
85°	119.4	156.2	228.2	175.6	117.6	77.2	82.5	91.3	80.8	70.2	68.5
87.5°	45.6	56.2	80.8	42.1	24.6	14.0	8.8	8.8	7.0	7.0	7.0
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)