

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: P637643

Luminaire Tested: GWS-SA4D-730-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637643  
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-730-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

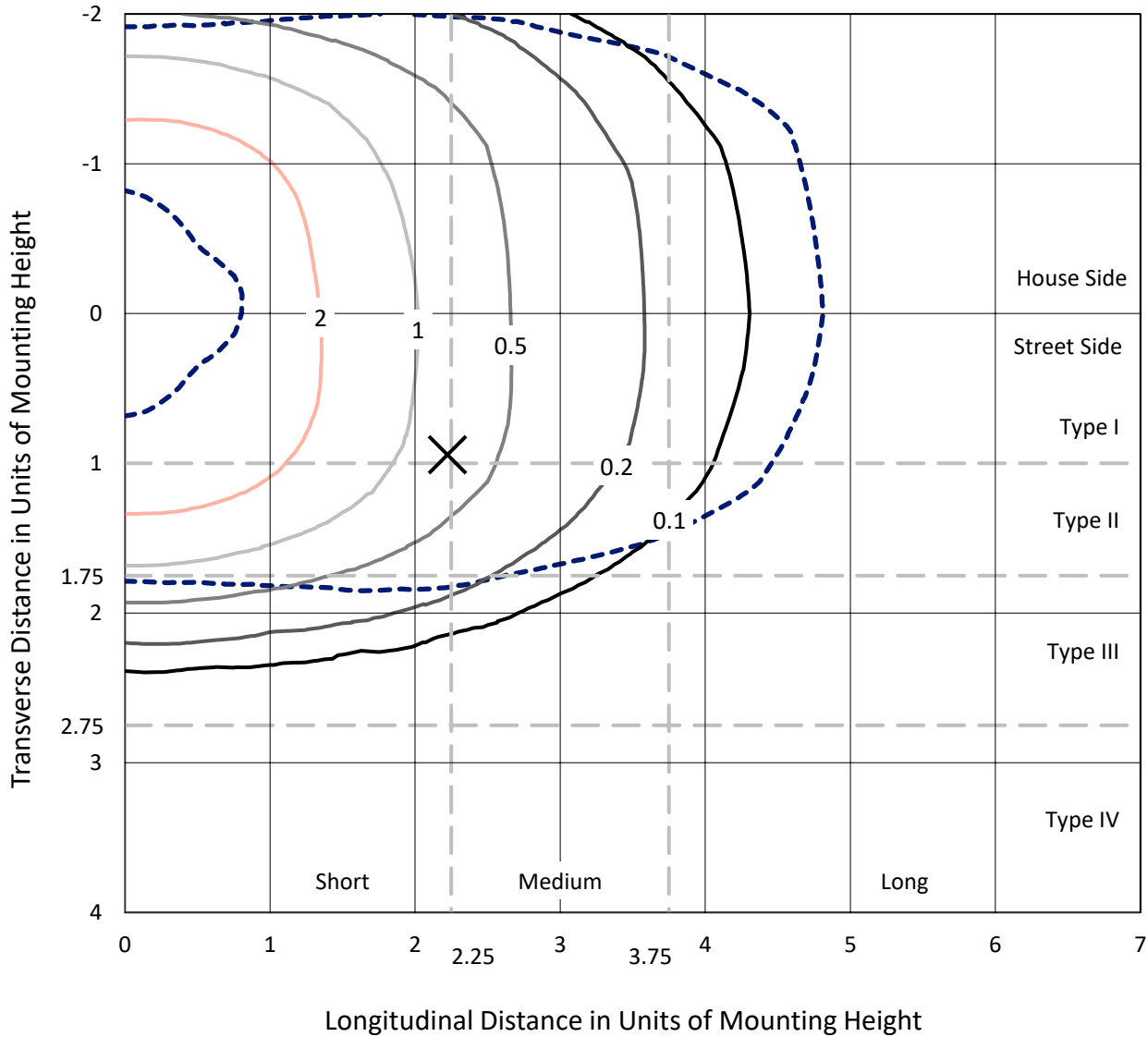
Lumens per Lamp: N/A  
Luminaire Lumens: 22956.3 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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: P637643  
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### Iso-Footcandle Lines of Horizontal Illumination

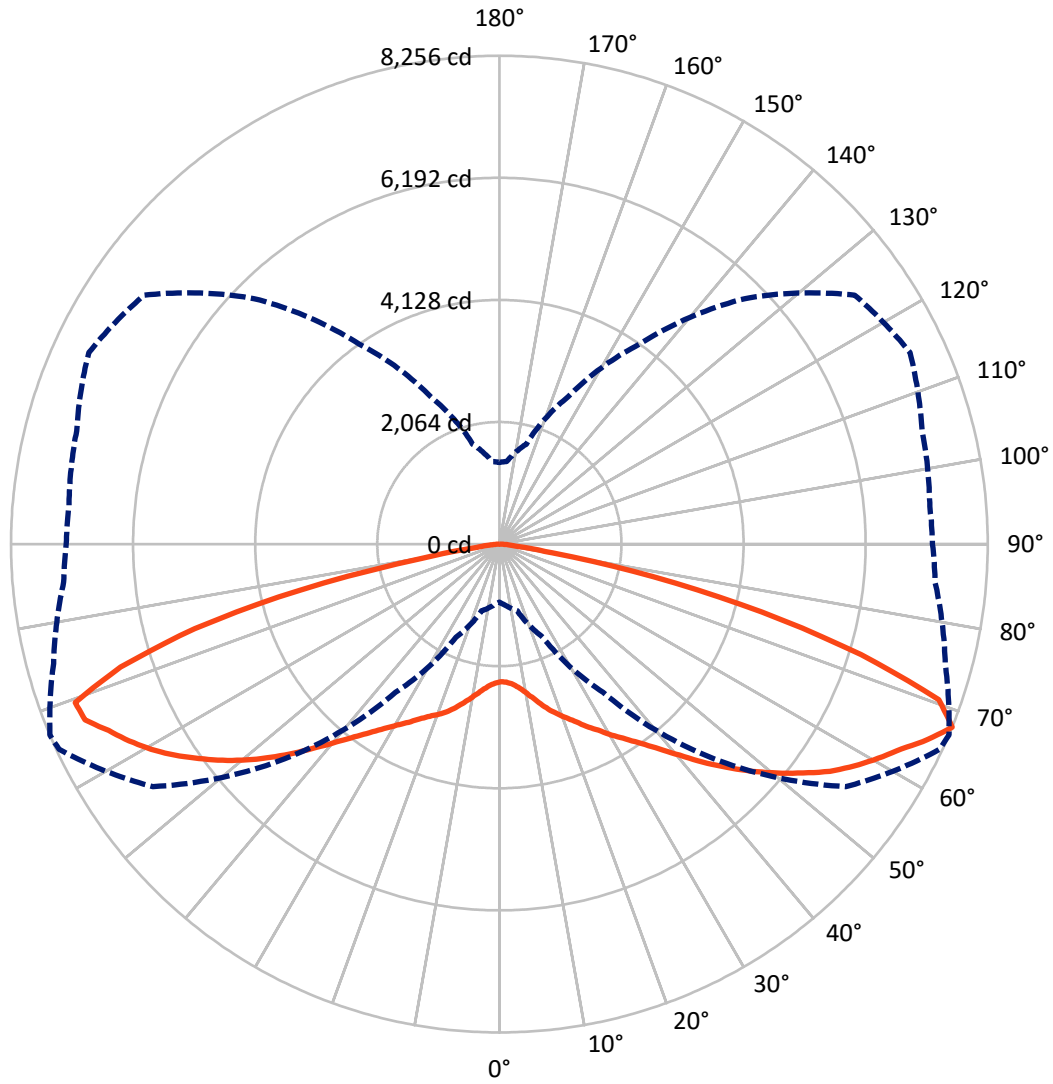
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P637643  
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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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CATALOG NUMBER: GWS-SA4D-730-U-RW-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11351.5	0.0	11351.5
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	11604.8	0.0	11604.8
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	22956.3	0.0	22956.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.1	1.0
10°-20°	770.5	3.4
20°-30°	1511.6	6.6
30°-40°	2575.4	11.2
40°-50°	4135.5	18.0
50°-60°	5619.3	24.5
60°-70°	5375.2	23.4
70°-80°	2555.6	11.1
80°-90°	185.2	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°	22956.3	100.0
0°-180°	22956.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637643

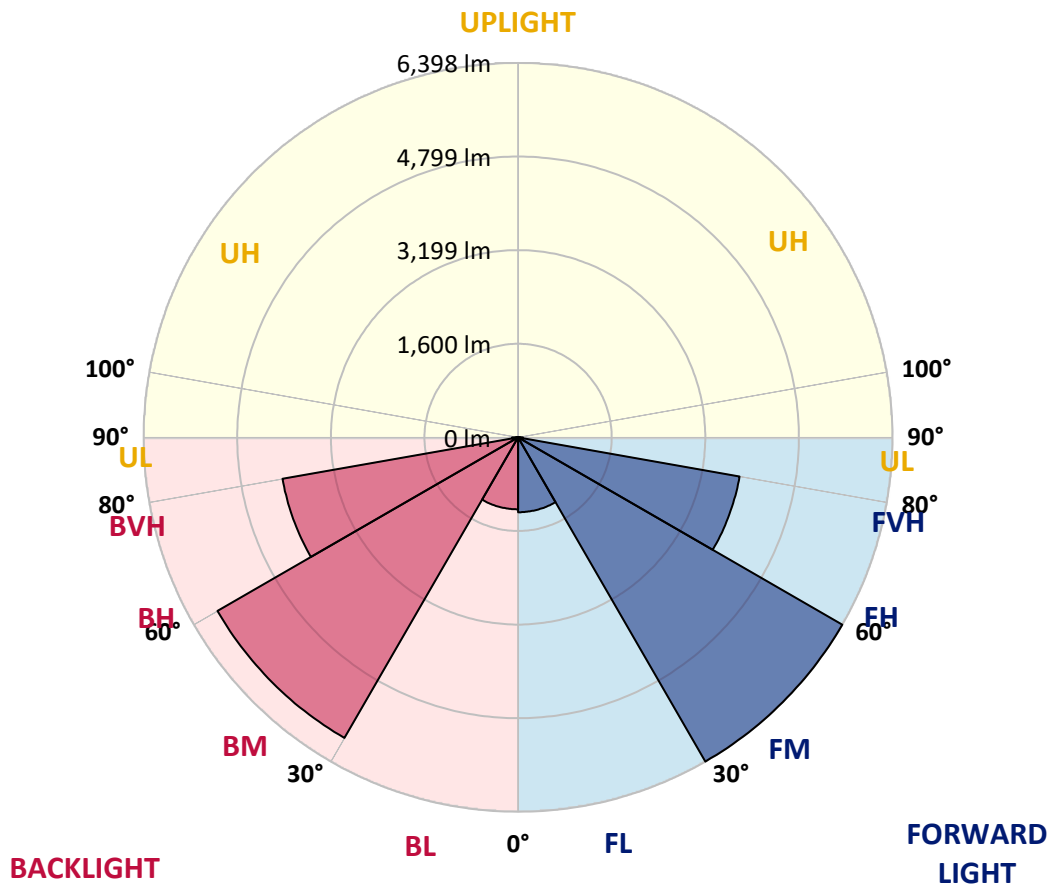
CATALOG NUMBER: GWS-SA4D-730-U-RW-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.0	5.6			
FM (30°-60°)	6398.1	27.9			
FH (60°-80°)	3843.5	16.7			G2/5000
FVH (80°-90°)	83.2	0.4			G1/100
BL (0°-30°)	1230.2	5.4	B3/2500		
BM (30°-60°)	5932.0	25.8	B4/8500		
BH (60°-80°)	4087.3	17.8	B4/5000		G4/5000
BVH (80°-90°)	102.0	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°	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5
2.5°	2276.5	2279.7	2284.5	2294.1	2303.7	2318.1	2332.4	2330.8	2337.2	2342.0	2346.8
5°	2263.7	2266.9	2274.9	2287.7	2302.1	2326.1	2356.4	2369.2	2378.8	2396.4	2412.4
7.5°	2290.9	2297.3	2308.5	2326.1	2348.4	2378.8	2420.4	2442.8	2457.1	2489.1	2516.3
10°	2327.7	2335.6	2358.0	2391.6	2425.2	2471.5	2524.3	2557.9	2567.4	2609.0	2660.2
12.5°	2362.8	2372.4	2409.2	2469.9	2530.7	2593.0	2655.4	2696.9	2700.1	2756.1	2813.6
15°	2418.8	2426.8	2476.3	2554.7	2647.4	2733.7	2810.4	2839.2	2852.0	2892.0	2963.9
17.5°	2541.9	2551.5	2615.4	2700.1	2797.7	2888.8	2965.5	2989.5	2989.5	3023.1	3082.2
20°	2674.6	2684.2	2768.9	2877.6	2995.9	3088.6	3147.8	3125.4	3117.4	3127.0	3168.5
22.5°	2823.2	2840.8	2922.4	3048.6	3194.1	3307.6	3338.0	3270.9	3248.5	3226.1	3235.7
25°	3013.5	3034.3	3114.2	3248.5	3390.8	3510.7	3528.2	3424.3	3411.5	3333.2	3304.4
27.5°	3232.5	3248.5	3347.6	3480.3	3613.0	3713.7	3732.9	3605.0	3561.8	3453.1	3386.0
30°	3515.5	3529.8	3616.2	3747.3	3862.4	3932.7	3956.7	3780.8	3747.3	3581.0	3477.1
32.5°	3824.0	3830.4	3918.3	4044.6	4146.9	4214.1	4180.5	3975.9	3926.3	3739.3	3597.0
35°	4177.3	4177.3	4290.8	4393.1	4474.7	4493.8	4429.9	4196.5	4138.9	3935.9	3758.5
37.5°	4524.2	4533.8	4639.3	4760.8	4832.8	4829.6	4712.9	4457.1	4391.5	4170.9	3974.3
40°	4899.9	4920.7	5026.2	5162.1	5230.8	5221.2	5042.2	4757.6	4690.5	4429.9	4238.1
42.5°	5245.2	5278.8	5401.9	5541.0	5616.1	5609.7	5422.7	5102.9	5037.4	4743.2	4551.4
45°	5520.2	5555.3	5708.8	5902.3	6022.2	6011.0	5822.3	5461.0	5381.1	5072.6	4861.5
47.5°	5761.6	5798.3	5969.4	6174.0	6364.3	6383.5	6210.8	5822.3	5737.6	5425.9	5187.7
50°	5947.0	5964.6	6156.4	6380.3	6600.9	6708.0	6557.7	6185.2	6082.9	5774.4	5505.8
52.5°	5932.6	5956.6	6193.2	6497.0	6792.7	6968.6	6864.7	6527.3	6428.2	6092.5	5830.3
55°	5640.1	5664.1	5945.4	6388.3	6899.8	7158.8	7147.6	6853.5	6781.5	6417.0	6167.6
57.5°	5213.2	5266.0	5545.8	6023.8	6759.1	7310.7	7355.4	7150.8	7075.7	6735.2	6501.8
60°	4449.1	4519.4	4842.3	5462.6	6308.3	7259.5	7577.7	7401.8	7355.4	7030.9	6803.9
62.5°	3232.5	3283.7	3713.7	4527.4	5640.1	6895.0	7764.7	7660.8	7625.6	7296.3	7077.3
65°	1936.0	2052.7	2398.0	3202.1	4549.8	6207.6	7662.4	7999.7	7962.9	7569.7	7310.7
67.5°	980.0	1032.7	1168.6	1736.1	3059.8	5136.5	7149.2	8210.7	8255.5	7803.1	7393.8
70°	607.5	621.9	660.2	856.9	1528.3	3374.8	5846.3	7660.8	7879.8	7766.3	7178.0
72.5°	487.6	490.8	497.2	534.0	733.8	1577.9	3696.1	5999.8	6394.6	7253.1	6869.4
75°	404.5	406.1	407.7	418.8	457.2	644.3	1798.5	4122.9	4585.0	6164.4	6369.1
77.5°	324.5	316.5	322.9	327.7	337.3	359.7	620.3	2199.8	2668.2	4046.2	4925.5
80°	211.0	207.8	220.6	225.4	235.0	249.4	330.9	746.6	906.4	1472.4	1566.7
82.5°	113.5	107.1	134.3	129.5	134.3	145.5	195.0	273.4	306.9	444.4	375.7
85°	35.2	35.2	36.8	43.2	52.8	51.2	84.7	134.3	148.7	190.2	140.7
87.5°	6.4	6.4	6.4	6.4	6.4	8.0	17.6	27.2	36.8	65.5	49.6
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: P637643  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5	2324.5
2.5°	2356.4	2342.0	2350.0	2354.8	2353.2	2350.0	2334.0	2330.8	2322.9	2310.1	2306.9
5°	2426.8	2410.8	2412.4	2407.6	2391.6	2370.8	2335.6	2318.1	2303.7	2287.7	2286.1
7.5°	2537.1	2519.5	2514.7	2492.3	2447.6	2399.6	2343.6	2311.7	2287.7	2266.9	2263.7
10°	2677.8	2660.2	2644.2	2591.4	2517.9	2453.9	2380.4	2334.0	2298.9	2273.3	2268.5
12.5°	2834.4	2820.0	2780.1	2703.3	2615.4	2540.3	2465.1	2407.6	2356.4	2318.1	2313.3
15°	3008.7	2976.7	2916.0	2816.8	2733.7	2673.0	2581.8	2503.5	2422.0	2370.8	2359.6
17.5°	3130.2	3103.0	3031.1	2935.1	2869.6	2816.8	2709.7	2597.8	2487.5	2412.4	2396.4
20°	3216.5	3187.7	3106.2	3035.9	3015.1	2970.3	2845.6	2716.1	2588.2	2495.5	2474.7
22.5°	3278.9	3248.5	3165.3	3130.2	3159.0	3151.0	3029.5	2882.4	2730.5	2620.2	2594.6
25°	3338.0	3309.2	3235.7	3248.5	3325.2	3349.2	3218.1	3047.0	2874.4	2744.9	2714.5
27.5°	3394.0	3357.2	3323.6	3394.0	3502.7	3547.4	3408.3	3214.9	3027.9	2895.2	2871.2
30°	3480.3	3437.1	3432.3	3534.6	3707.3	3745.7	3592.2	3398.8	3213.3	3079.0	3048.6
32.5°	3589.0	3549.0	3552.2	3705.7	3905.5	3937.5	3806.4	3625.8	3440.3	3306.0	3264.5
35°	3736.1	3686.5	3713.7	3902.3	4103.8	4162.9	4057.4	3907.1	3726.5	3589.0	3542.6
37.5°	3939.1	3867.2	3923.1	4121.3	4324.4	4412.3	4330.8	4218.9	4039.8	3900.7	3857.6
40°	4198.1	4138.9	4161.3	4380.3	4589.8	4695.3	4644.1	4533.8	4356.4	4210.9	4161.3
42.5°	4505.0	4445.9	4437.9	4671.3	4880.7	5040.6	4991.0	4890.3	4706.5	4540.2	4492.2
45°	4805.6	4751.2	4762.4	5000.6	5235.6	5409.9	5360.3	5242.0	5042.2	4850.3	4812.0
47.5°	5118.9	5074.2	5083.7	5336.3	5595.3	5769.6	5707.2	5563.3	5329.9	5125.3	5078.9
50°	5440.2	5389.1	5403.5	5668.9	5948.6	6113.3	6017.4	5804.7	5547.4	5347.5	5307.6
52.5°	5760.0	5699.2	5736.0	5987.0	6276.3	6407.4	6230.0	5972.6	5723.2	5525.0	5480.2
55°	6127.7	6063.7	6023.8	6292.3	6578.5	6632.8	6389.8	6089.3	5793.5	5568.1	5541.0
57.5°	6463.4	6409.0	6333.9	6602.5	6813.5	6773.5	6512.9	6057.3	5622.5	5333.1	5294.8
60°	6763.9	6717.6	6652.0	6880.6	6976.6	6887.0	6413.8	5678.4	5200.4	4898.3	4880.7
62.5°	7040.5	6990.9	6930.2	7125.2	7112.4	6904.6	5963.0	5096.5	4457.1	4132.5	4103.8
65°	7259.5	7214.8	7197.2	7350.6	7329.9	6560.9	5261.2	4143.7	3256.5	2890.4	2879.2
67.5°	7321.9	7304.3	7398.6	7659.2	7334.7	5870.3	4126.1	2748.1	1748.9	1402.0	1381.2
70°	7088.5	7086.9	7357.0	7729.5	6669.6	4484.2	2434.8	1239.0	879.3	780.1	767.4
72.5°	6784.7	6779.9	6994.1	6668.0	4946.3	2453.9	1024.7	663.4	549.9	522.8	522.8
75°	6285.9	6273.1	6434.6	5072.6	2781.7	924.0	543.5	455.6	431.6	426.8	426.8
77.5°	5123.7	5016.6	4762.4	3135.0	970.4	454.0	359.7	358.1	343.7	342.1	342.1
80°	1685.0	1685.0	1958.4	1195.8	428.4	279.8	254.2	267.0	252.6	243.0	241.4
82.5°	275.0	378.9	538.7	342.1	231.8	174.3	156.7	166.3	174.3	139.1	139.1
85°	108.7	142.3	207.8	159.9	107.1	70.3	75.1	83.1	73.5	63.9	62.3
87.5°	41.6	51.2	73.5	38.4	22.4	12.8	8.0	8.0	6.4	6.4	6.4
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)