

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P192535

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192535  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-5MQ-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28184.5 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

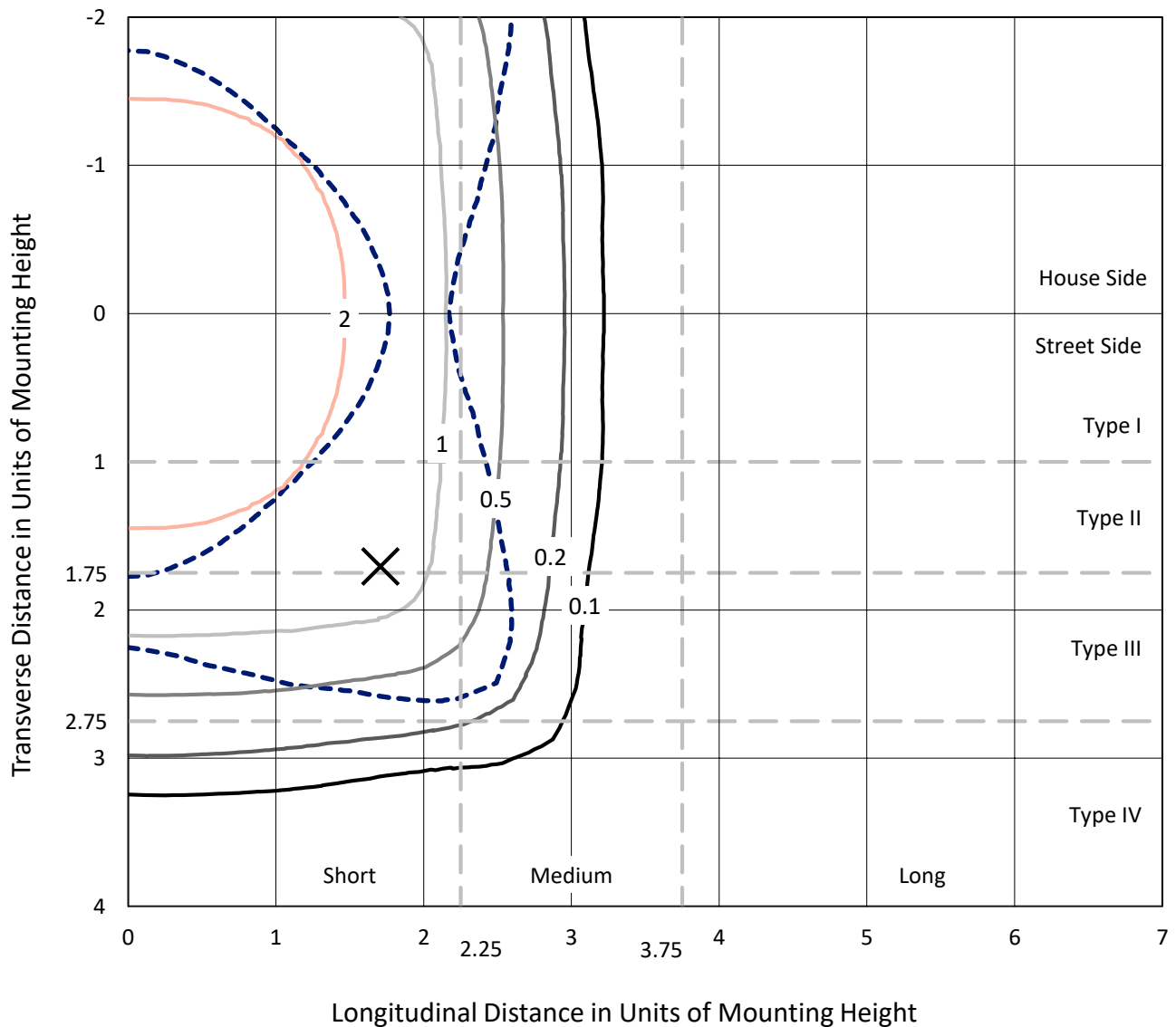


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

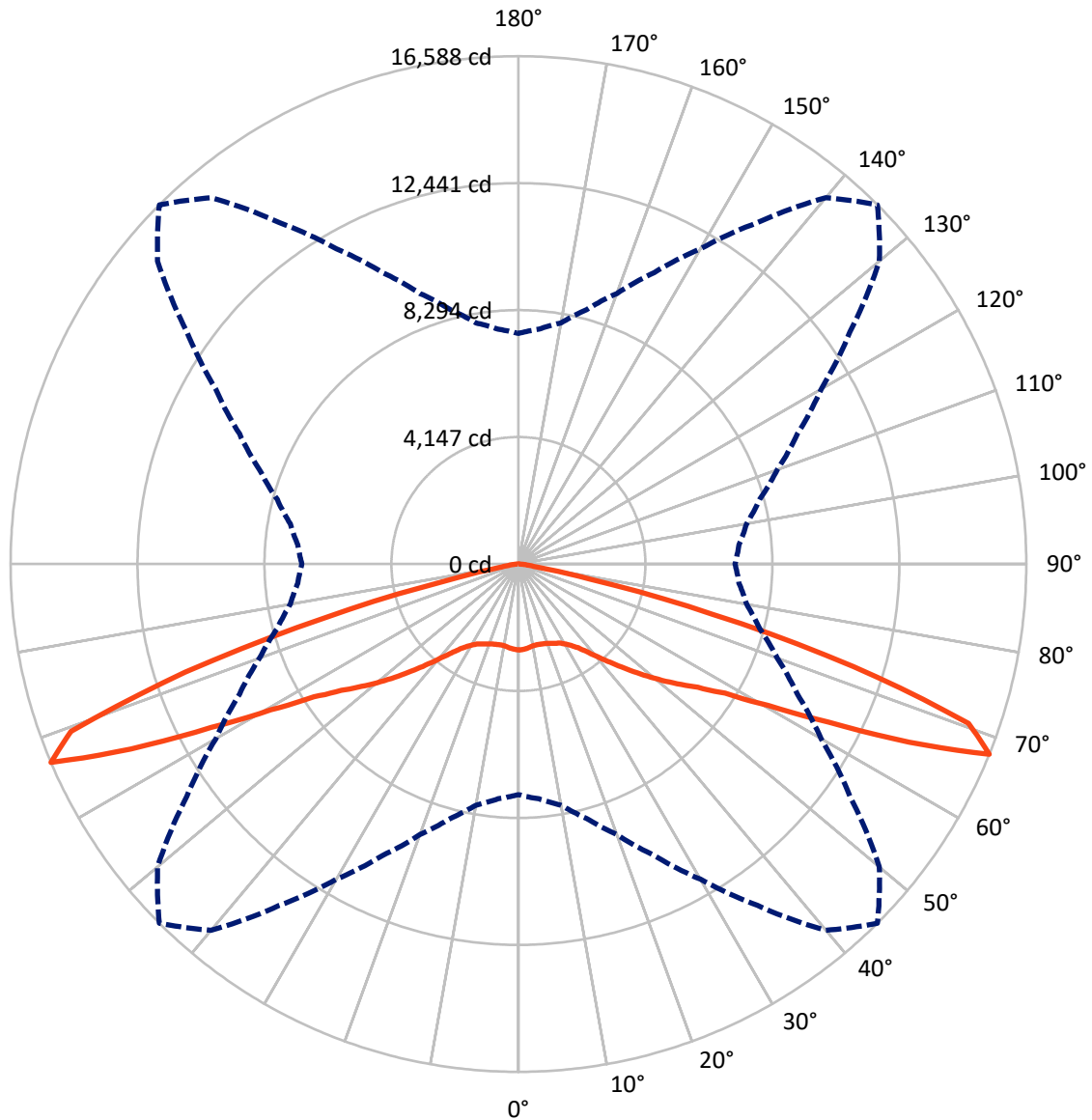


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14092.3	0.0	14092.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14092.3	0.0	14092.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28184.5	0.0	28184.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.9	0.9
10°-20°	762.8	2.7
20°-30°	1296.8	4.6
30°-40°	2119.9	7.5
40°-50°	3784.4	13.4
50°-60°	6380.5	22.6
60°-70°	9901.6	35.1
70°-80°	3479.0	12.3
80°-90°	196.6	0.7
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°	28184.5	100.0
0°-180°	28184.5	100.0

**Coefficient of Utilization**



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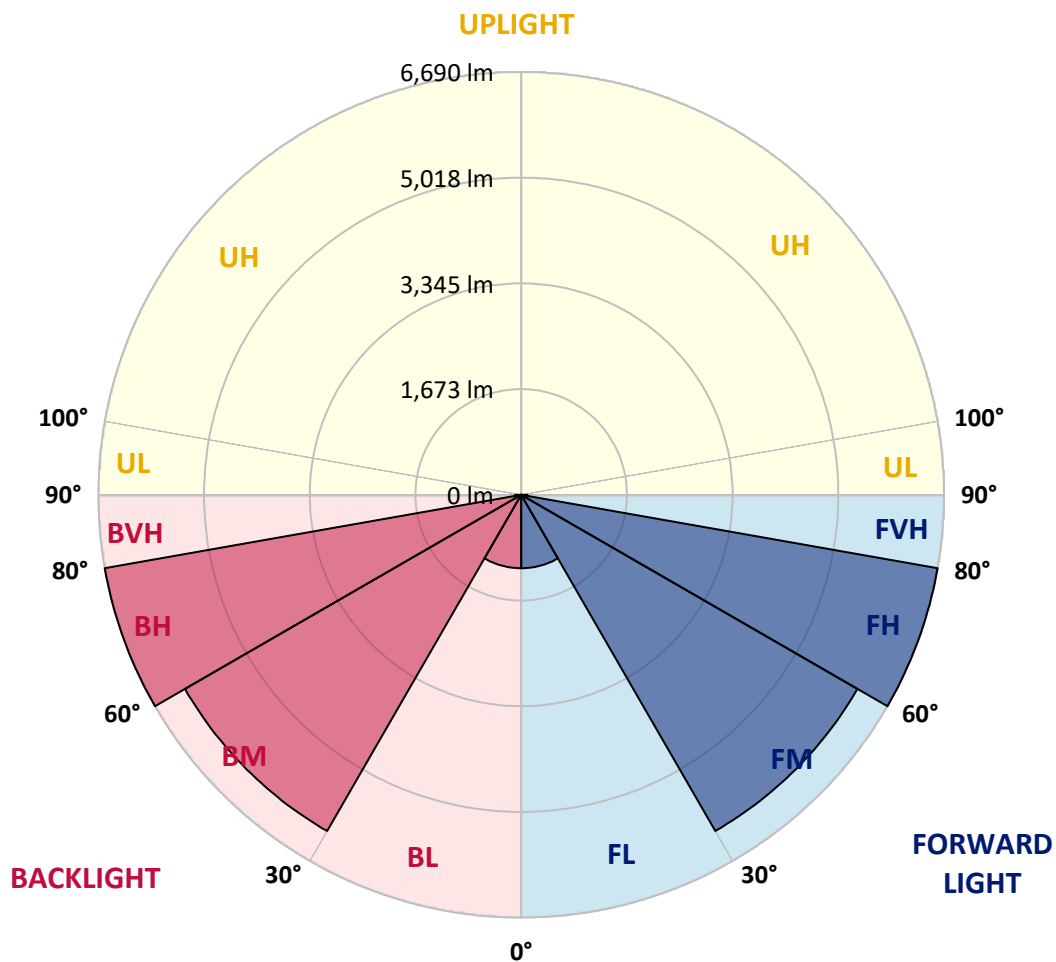
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1161.3	4.1			
FM	(30°-60°)	6142.4	21.8			
FH	(60°-80°)	6690.3	23.7			G3/7500
FVH	(80°-90°)	98.3	0.3			G1/100
BL	(0°-30°)	1161.3	4.1	B3/2500		
BM	(30°-60°)	6142.4	21.8	B4/8500		
BH	(60°-80°)	6690.3	23.7	B5		G3/7500
BVH	(80°-90°)	98.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7
2.5°	2798.3	2801.0	2801.0	2801.0	2799.7	2799.7	2797.0	2799.7	2798.3	2794.5	2795.7
5°	2774.9	2777.6	2777.6	2776.3	2780.2	2778.9	2774.9	2777.6	2776.3	2773.8	2774.9
7.5°	2741.4	2745.2	2745.2	2743.9	2747.8	2746.4	2743.9	2745.2	2745.2	2741.4	2741.4
10°	2703.7	2706.4	2706.4	2705.0	2711.5	2711.5	2710.1	2714.1	2715.4	2711.5	2708.9
12.5°	2668.7	2672.6	2672.6	2677.8	2684.3	2686.9	2693.3	2698.4	2703.7	2702.4	2697.3
15°	2648.0	2650.6	2655.8	2662.2	2672.6	2681.7	2692.0	2703.7	2714.1	2716.7	2708.9
17.5°	2635.0	2638.9	2646.7	2655.8	2670.0	2685.6	2701.1	2716.7	2730.9	2736.1	2727.0
20°	2631.2	2633.7	2641.5	2657.0	2676.6	2699.8	2721.8	2740.0	2759.5	2765.9	2759.5
22.5°	2638.9	2644.1	2653.2	2671.3	2697.3	2727.0	2753.0	2777.6	2802.2	2813.9	2804.8
25°	2673.9	2679.1	2690.7	2714.1	2742.6	2773.8	2803.5	2832.0	2854.1	2865.8	2859.2
27.5°	2738.7	2745.2	2759.5	2782.9	2813.9	2847.7	2880.0	2903.3	2921.5	2925.3	2917.5
30°	2836.0	2850.1	2867.1	2892.9	2929.2	2957.7	2990.2	3010.8	3032.9	3032.9	3026.5
32.5°	2987.5	3001.8	3019.9	3044.6	3073.1	3104.3	3132.8	3150.9	3174.2	3175.5	3160.0
35°	3214.4	3220.9	3236.5	3252.0	3277.9	3305.1	3329.7	3341.3	3360.9	3362.1	3347.9
37.5°	3513.8	3515.1	3525.5	3530.6	3553.9	3583.8	3607.0	3614.9	3633.1	3630.4	3616.2
40°	3862.5	3869.0	3872.8	3880.6	3905.3	3933.8	3958.4	3962.3	3981.7	3977.8	3959.7
42.5°	4265.6	4268.1	4290.2	4301.9	4325.1	4339.4	4370.6	4374.4	4397.8	4387.5	4366.6
45°	4718.0	4741.2	4761.9	4785.3	4809.9	4826.7	4851.4	4846.2	4861.8	4846.2	4834.5
47.5°	5193.5	5210.5	5257.1	5293.4	5333.6	5347.8	5382.7	5367.3	5382.7	5360.8	5356.9
50°	5717.2	5747.0	5787.3	5828.7	5871.5	5894.7	5940.1	5920.8	5941.4	5920.8	5909.1
52.5°	6233.0	6240.9	6329.0	6389.9	6449.6	6476.8	6503.9	6494.9	6496.2	6494.9	6483.2
55°	6723.0	6741.2	6829.2	6912.3	7016.0	7092.4	7139.1	7133.9	7122.2	7110.6	7091.2
57.5°	7275.1	7293.3	7394.4	7496.9	7614.8	7723.6	7818.3	7915.4	7953.0	7963.4	7920.6
60°	8021.7	8020.4	8155.2	8279.6	8448.2	8610.1	8817.6	9028.8	9271.2	9383.9	9234.9
62.5°	8781.2	8812.5	9006.8	9227.2	9574.5	9912.8	10295.2	10671.1	11054.7	11367.0	11035.1
65°	8690.5	8809.8	9098.8	9597.8	10239.4	11001.6	11825.9	12698.1	13486.2	14028.1	13420.1
67.5°	7531.8	7701.5	7995.8	8602.4	9404.7	10503.8	11888.1	13613.2	15618.3	16587.8	15386.3
70°	5459.2	5651.1	5959.5	6551.9	7346.5	8391.1	9894.6	11965.8	14620.3	15597.7	14274.2
72.5°	2716.7	2820.4	3010.8	3388.0	3989.5	4837.1	6200.7	8191.5	10540.1	11437.0	10227.8
75°	922.8	970.8	1003.2	1126.4	1316.9	1650.0	2327.9	3581.2	5463.2	6549.3	5385.4
77.5°	532.7	533.9	556.0	578.1	610.4	646.9	737.5	968.2	1674.6	2378.3	1733.0
80°	344.8	343.5	361.6	378.5	400.6	418.7	423.8	448.5	517.2	613.1	548.3
82.5°	178.8	200.9	241.0	263.1	304.7	312.4	302.0	293.0	309.8	321.4	329.2
85°	98.6	85.5	128.3	165.8	184.1	186.7	186.7	176.2	182.8	178.8	194.4
87.5°	45.4	41.5	50.6	81.6	86.9	73.9	77.8	68.8	49.2	48.0	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7	2808.7
2.5°	2795.7	2797.0	2797.0	2801.0	2802.2	2804.8	2807.4	2808.7
5°	2773.8	2777.6	2774.9	2778.9	2778.9	2781.5	2781.5	2782.9
7.5°	2741.4	2745.2	2745.2	2745.2	2743.9	2747.8	2747.8	2747.8
10°	2707.6	2710.1	2708.9	2706.4	2703.7	2707.6	2706.4	2705.0
12.5°	2697.3	2690.7	2685.6	2683.0	2677.8	2679.1	2675.2	2675.2
15°	2703.7	2692.0	2683.0	2679.1	2673.9	2671.3	2668.7	2670.0
17.5°	2720.5	2706.4	2694.7	2688.3	2681.7	2677.8	2672.6	2673.9
20°	2750.4	2733.5	2716.7	2703.7	2692.0	2685.6	2681.7	2680.3
22.5°	2794.5	2769.8	2745.2	2725.8	2710.1	2701.1	2697.3	2694.7
25°	2845.0	2817.8	2789.3	2767.2	2751.7	2740.0	2732.2	2732.2
27.5°	2908.5	2886.5	2860.5	2834.6	2820.4	2808.7	2803.5	2801.0
30°	3014.8	2994.0	2973.3	2948.7	2930.6	2918.9	2909.8	2902.0
32.5°	3150.9	3134.0	3117.1	3099.0	3082.2	3066.7	3052.3	3045.9
35°	3342.7	3329.7	3318.1	3297.3	3290.9	3281.8	3274.1	3267.5
37.5°	3607.0	3602.0	3602.0	3579.9	3574.8	3570.8	3563.1	3564.4
40°	3954.5	3959.7	3953.2	3945.5	3941.5	3931.1	3931.1	3940.2
42.5°	4365.4	4369.3	4383.5	4370.6	4384.8	4371.8	4364.1	4370.6
45°	4842.4	4856.6	4885.1	4872.1	4881.2	4859.2	4832.0	4833.3
47.5°	5377.6	5390.7	5402.3	5393.1	5394.4	5358.2	5321.9	5312.8
50°	5933.7	5938.9	5945.4	5932.3	5935.0	5894.7	5853.3	5854.6
52.5°	6483.2	6507.8	6533.8	6498.7	6491.0	6445.6	6387.3	6364.1
55°	7111.8	7146.8	7117.0	7056.1	6995.3	6934.2	6857.7	6844.9
57.5°	7886.9	7827.4	7734.0	7618.6	7534.4	7448.9	7371.0	7338.6
60°	8965.3	8741.1	8572.6	8401.5	8293.9	8189.0	8086.5	8071.0
62.5°	10489.6	10102.0	9766.3	9412.4	9123.4	8897.8	8717.8	8667.2
65°	12400.1	11483.7	10689.2	9947.7	9303.7	8817.6	8511.7	8376.9
67.5°	13221.8	11412.3	10050.2	8997.7	8155.2	7566.7	7236.2	7071.7
70°	11618.5	9464.4	7982.8	6929.1	6161.7	5534.4	5235.0	5058.8
72.5°	7993.2	6020.5	4760.7	3885.8	3272.8	2747.8	2540.4	2524.9
75°	3588.9	2377.1	1638.4	1262.4	1062.9	924.2	881.4	849.0
77.5°	1004.5	742.6	662.3	619.5	578.1	530.1	512.0	515.8
80°	488.6	461.4	443.3	416.1	378.5	338.2	320.1	327.9
82.5°	324.1	320.1	331.8	312.4	258.0	219.1	184.1	168.5
85°	197.0	199.6	203.4	204.8	173.7	121.9	82.9	93.3
87.5°	77.8	89.5	97.2	101.1	94.6	58.4	46.7	48.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)