

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: P268481

Luminaire Tested: **GAN-AF-05-LED-U-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268481
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-05-LED-U-5MQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27152.7 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

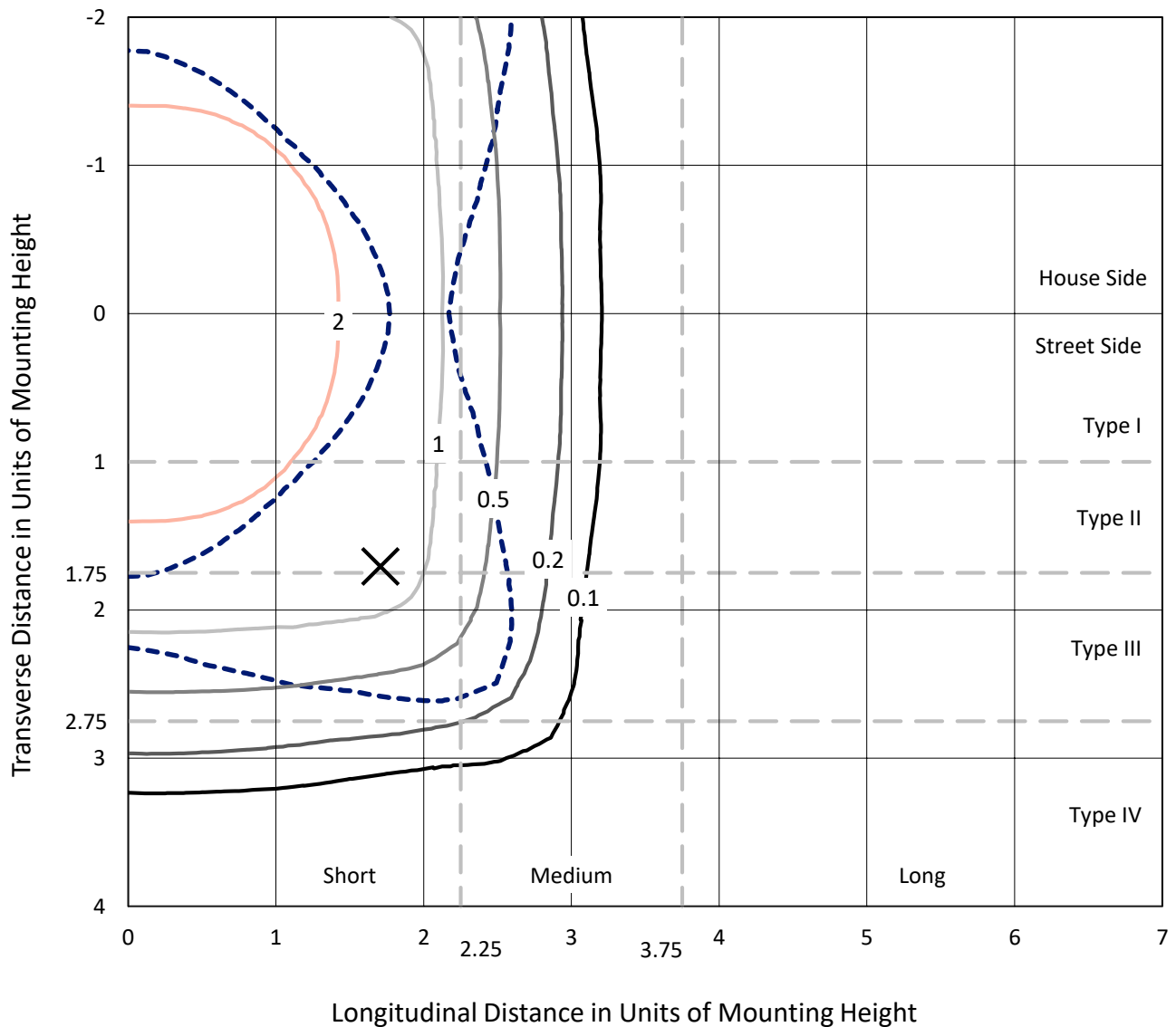
Input Watts (W): 279
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

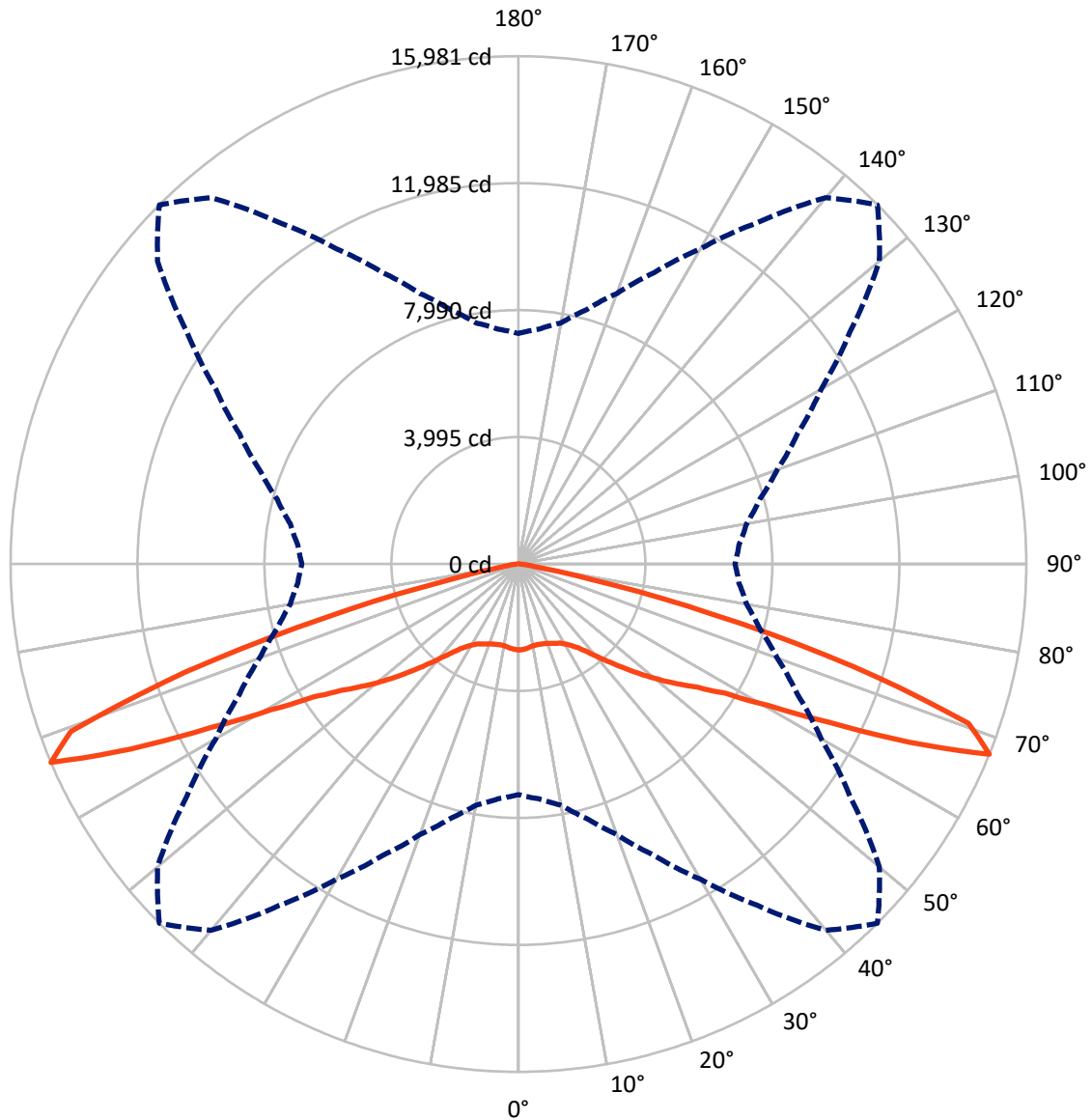
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
House Side	Lumens	13576.3	0.0	13576.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13576.3	0.0	13576.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	27152.7	0.0	27152.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	0.9
10°-20°	734.9	2.7
20°-30°	1249.3	4.6
30°-40°	2042.3	7.5
40°-50°	3645.8	13.4
50°-60°	6146.9	22.6
60°-70°	9539.1	35.1
70°-80°	3351.6	12.3
80°-90°	189.4	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°	27152.7	100.0
0°-180°	27152.7	100.0



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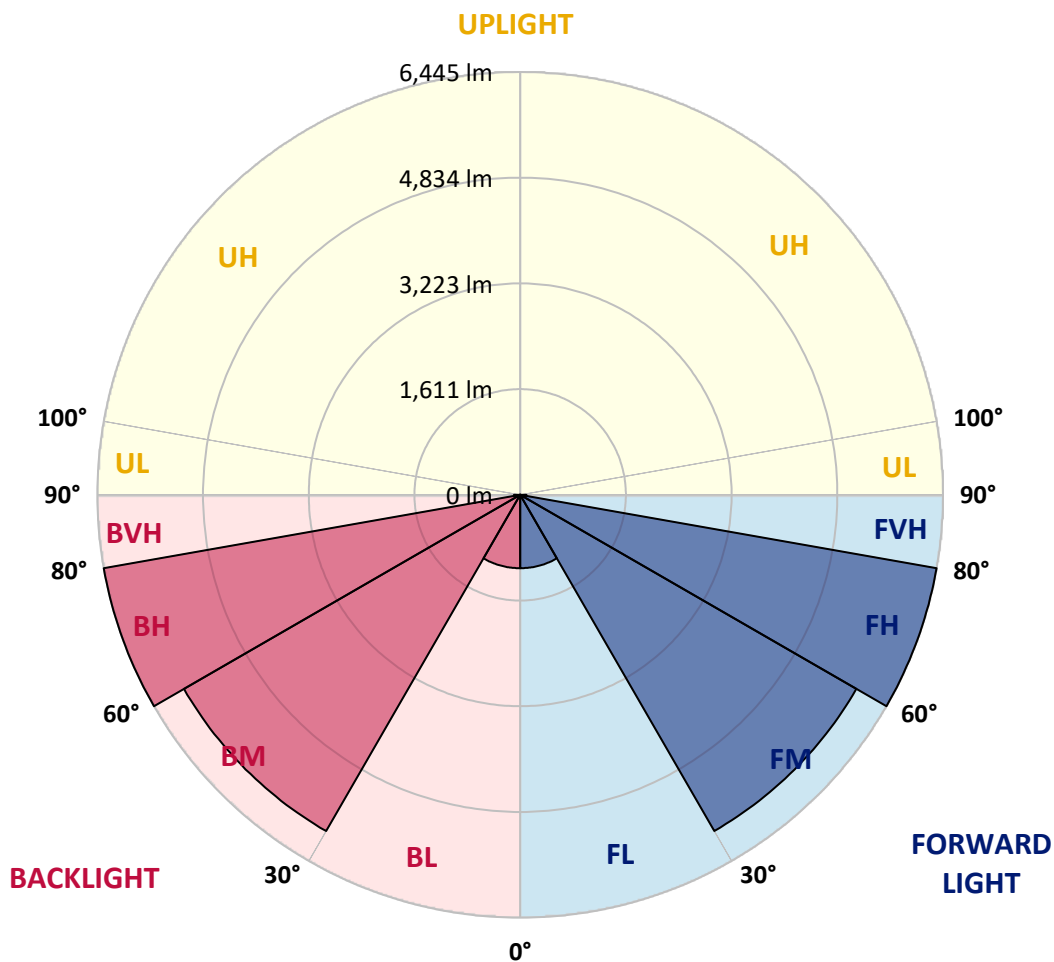
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1118.7	4.1			
FM	(30°-60°)	5917.5	21.8			
FH	(60°-80°)	6445.4	23.7			G3/7500
FVH	(80°-90°)	94.7	0.3			G1/100
BL	(0°-30°)	1118.7	4.1	B3/2500		
BM	(30°-60°)	5917.5	21.8	B4/8500		
BH	(60°-80°)	6445.4	23.7	B5		G3/7500
BVH	(80°-90°)	94.7	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°	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9
2.5°	2696.0	2698.4	2698.4	2698.4	2697.2	2697.2	2694.6	2697.2	2696.0	2692.1	2693.4
5°	2673.4	2676.0	2676.0	2674.7	2678.3	2677.2	2673.4	2676.0	2674.7	2672.2	2673.4
7.5°	2640.9	2644.7	2644.7	2643.4	2647.1	2646.0	2643.4	2644.7	2644.7	2640.9	2640.9
10°	2604.7	2607.2	2607.2	2606.1	2612.2	2612.2	2611.0	2614.7	2616.0	2612.2	2609.8
12.5°	2570.9	2574.7	2574.7	2579.8	2586.0	2588.5	2594.8	2599.8	2604.7	2603.5	2598.4
15°	2551.0	2553.5	2558.6	2564.8	2574.7	2583.5	2593.4	2604.7	2614.7	2617.2	2609.8
17.5°	2538.6	2542.4	2549.7	2558.6	2572.2	2587.3	2602.2	2617.2	2631.0	2635.9	2627.3
20°	2534.7	2537.4	2544.8	2559.8	2578.6	2601.0	2622.2	2639.7	2658.4	2664.7	2658.4
22.5°	2542.4	2547.4	2556.0	2573.6	2598.4	2627.3	2652.2	2676.0	2699.6	2710.8	2702.1
25°	2576.0	2581.0	2592.2	2614.7	2642.2	2672.2	2700.8	2728.3	2749.6	2760.9	2754.7
27.5°	2638.4	2644.7	2658.4	2680.9	2710.8	2743.3	2774.5	2797.1	2814.5	2818.3	2810.7
30°	2732.1	2745.8	2762.1	2787.0	2822.0	2849.5	2880.7	2900.6	2921.8	2921.8	2915.7
32.5°	2878.2	2892.0	2909.4	2933.1	2960.6	2990.5	3018.0	3035.6	3058.0	3059.3	3044.3
35°	3096.6	3102.9	3117.9	3132.8	3157.9	3184.1	3207.8	3219.0	3237.9	3239.1	3225.4
37.5°	3385.2	3386.4	3396.4	3401.4	3423.9	3452.5	3475.1	3482.5	3500.1	3497.6	3483.7
40°	3721.0	3727.2	3731.0	3738.6	3762.2	3789.7	3813.5	3817.2	3835.9	3832.2	3814.7
42.5°	4109.3	4111.9	4133.1	4144.3	4166.8	4180.5	4210.5	4214.3	4236.8	4226.7	4206.9
45°	4545.2	4567.6	4587.6	4610.1	4633.8	4650.0	4673.8	4668.9	4683.9	4668.9	4657.5
47.5°	5003.4	5019.6	5064.6	5099.6	5138.2	5152.0	5185.7	5170.7	5185.7	5164.5	5160.8
50°	5507.9	5536.7	5575.3	5615.2	5656.4	5678.9	5722.7	5704.0	5723.9	5704.0	5692.6
52.5°	6004.9	6012.4	6097.2	6155.9	6213.3	6239.6	6265.9	6257.1	6258.3	6257.1	6245.8
55°	6476.9	6494.3	6579.2	6659.1	6759.0	6832.8	6877.8	6872.8	6861.4	6850.2	6831.5
57.5°	7008.8	7026.4	7123.6	7222.4	7336.0	7440.9	7532.0	7625.6	7661.9	7671.9	7630.7
60°	7728.1	7726.9	7856.7	7976.5	8138.9	8294.9	8494.7	8698.3	8931.8	9040.5	8896.9
62.5°	8459.8	8489.7	8677.1	8889.3	9223.9	9549.9	9918.2	10280.4	10649.9	10950.9	10631.3
65°	8372.4	8487.2	8765.8	9246.4	9864.6	10598.7	11392.9	12233.3	12992.5	13514.5	12928.8
67.5°	7256.1	7419.6	7703.1	8287.5	9060.3	10119.2	11452.9	13114.9	15046.5	15980.6	14823.0
70°	5259.4	5444.2	5741.3	6312.0	7077.4	8083.9	9532.4	11527.8	14085.1	15026.6	13751.7
72.5°	2617.2	2717.2	2900.6	3264.0	3843.4	4660.0	5973.6	7891.6	10154.3	11018.3	9853.2
75°	889.1	935.2	966.4	1085.2	1268.6	1589.6	2242.6	3450.1	5263.2	6309.5	5188.3
77.5°	513.2	514.5	535.7	556.9	588.1	623.1	710.5	932.8	1613.3	2291.3	1669.5
80°	332.2	330.8	348.5	364.6	385.8	403.2	408.3	432.1	498.2	590.6	528.3
82.5°	172.4	193.6	232.2	253.5	293.4	300.9	291.0	282.2	298.4	309.6	317.1
85°	95.0	82.5	123.6	159.8	177.3	179.8	179.8	169.8	176.1	172.4	187.2
87.5°	43.7	40.0	48.7	78.7	83.6	71.1	74.9	66.1	47.4	46.3	52.5
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°	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9
2.5°	2693.4	2694.6	2694.6	2698.4	2699.6	2702.1	2704.6	2705.9
5°	2672.2	2676.0	2673.4	2677.2	2677.2	2679.6	2679.6	2680.9
7.5°	2640.9	2644.7	2644.7	2644.7	2643.4	2647.1	2647.1	2647.1
10°	2608.5	2611.0	2609.8	2607.2	2604.7	2608.5	2607.2	2606.1
12.5°	2598.4	2592.2	2587.3	2584.8	2579.8	2581.0	2577.2	2577.2
15°	2604.7	2593.4	2584.8	2581.0	2576.0	2573.6	2570.9	2572.2
17.5°	2621.0	2607.2	2596.0	2589.8	2583.5	2579.8	2574.7	2576.0
20°	2649.7	2633.4	2617.2	2604.7	2593.4	2587.3	2583.5	2582.3
22.5°	2692.1	2668.4	2644.7	2625.9	2611.0	2602.2	2598.4	2596.0
25°	2740.9	2714.6	2687.2	2665.9	2651.0	2639.7	2632.3	2632.3
27.5°	2802.1	2780.9	2755.8	2730.8	2717.2	2705.9	2700.8	2698.4
30°	2904.4	2884.5	2864.4	2840.7	2823.3	2812.1	2803.3	2795.7
32.5°	3035.6	3019.4	3003.0	2985.5	2969.3	2954.3	2940.6	2934.5
35°	3220.3	3207.8	3196.6	3176.6	3170.4	3161.7	3154.2	3147.9
37.5°	3475.1	3470.1	3470.1	3448.9	3443.8	3440.1	3432.7	3433.9
40°	3809.7	3814.7	3808.5	3801.0	3797.2	3787.3	3787.3	3796.0
42.5°	4205.5	4209.3	4223.0	4210.5	4224.3	4211.8	4204.2	4210.5
45°	4665.1	4678.8	4706.3	4693.7	4702.4	4681.2	4655.0	4656.4
47.5°	5180.7	5193.2	5204.5	5195.7	5197.0	5162.0	5127.0	5118.4
50°	5716.5	5721.5	5727.7	5715.1	5717.7	5678.9	5639.0	5640.3
52.5°	6245.8	6269.6	6294.6	6260.8	6253.5	6209.7	6153.5	6131.0
55°	6851.6	6885.1	6856.5	6797.7	6739.2	6680.4	6606.8	6594.3
57.5°	7598.3	7540.7	7450.8	7339.7	7258.6	7176.1	7101.2	7070.0
60°	8637.2	8421.2	8258.7	8093.9	7990.2	7889.2	7790.6	7775.5
62.5°	10105.6	9732.1	9408.8	9067.9	8789.5	8572.2	8398.7	8349.8
65°	11946.1	11063.3	10297.8	9583.6	8963.0	8494.7	8200.1	8070.3
67.5°	12737.7	10994.5	9682.2	8668.4	7856.7	7289.7	6971.3	6812.7
70°	11193.2	9117.8	7690.6	6675.5	5936.2	5331.8	5043.4	4873.6
72.5°	7700.6	5800.0	4586.3	3743.5	3153.0	2647.1	2447.4	2432.4
75°	3457.5	2290.0	1578.3	1216.2	1023.9	890.3	849.1	817.8
77.5°	967.7	715.5	638.1	596.8	556.9	510.6	493.2	496.9
80°	470.7	444.5	427.1	400.9	364.6	325.9	308.4	315.9
82.5°	312.3	308.4	319.6	300.9	248.6	211.0	177.3	162.4
85°	189.8	192.2	196.0	197.3	167.4	117.4	79.9	89.9
87.5°	74.9	86.1	93.7	97.3	91.2	56.2	44.9	46.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)