

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: P192562

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192562
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-04-LED-U-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26762 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 258
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

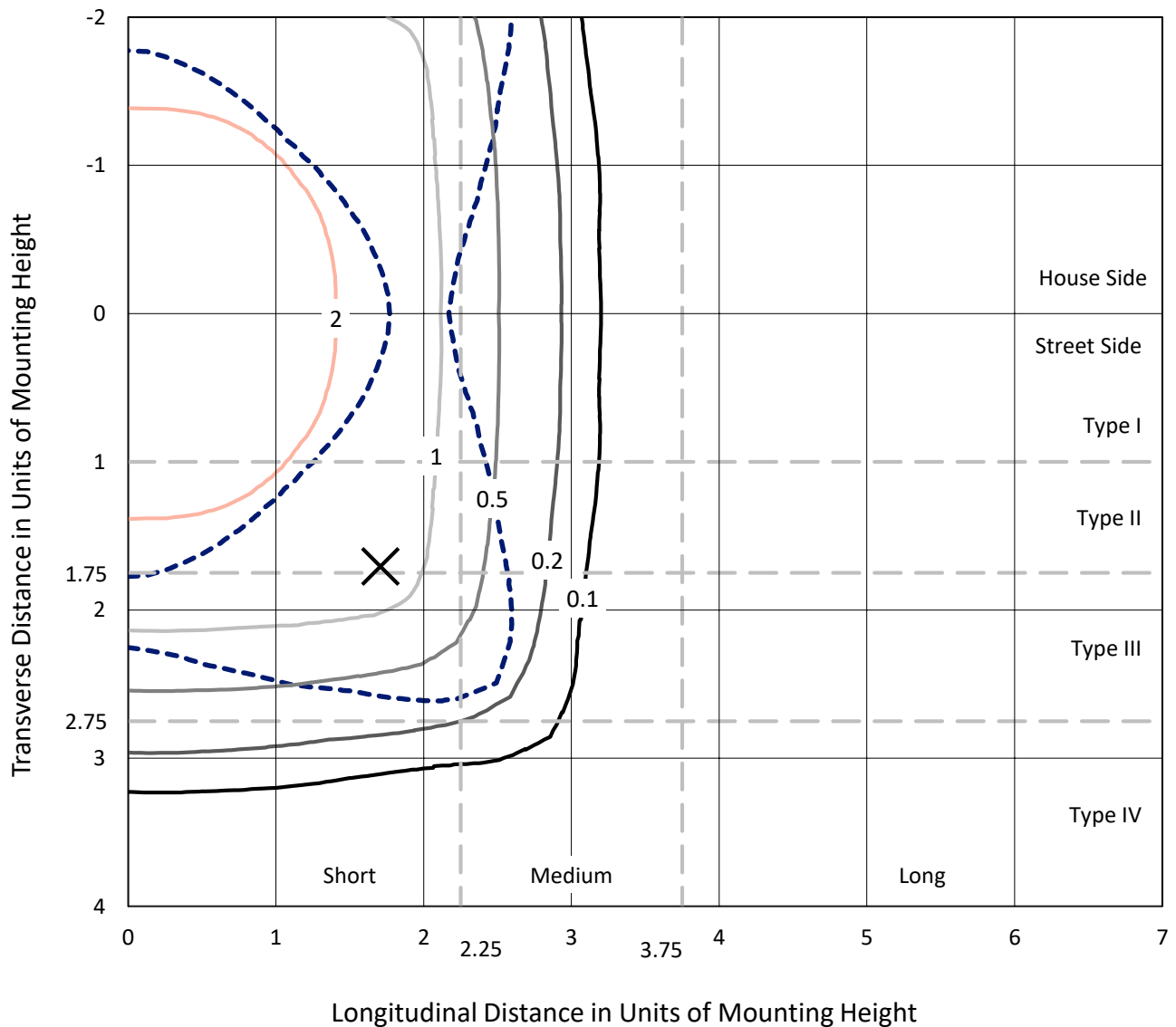


REPORT NUMBER: P192562

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

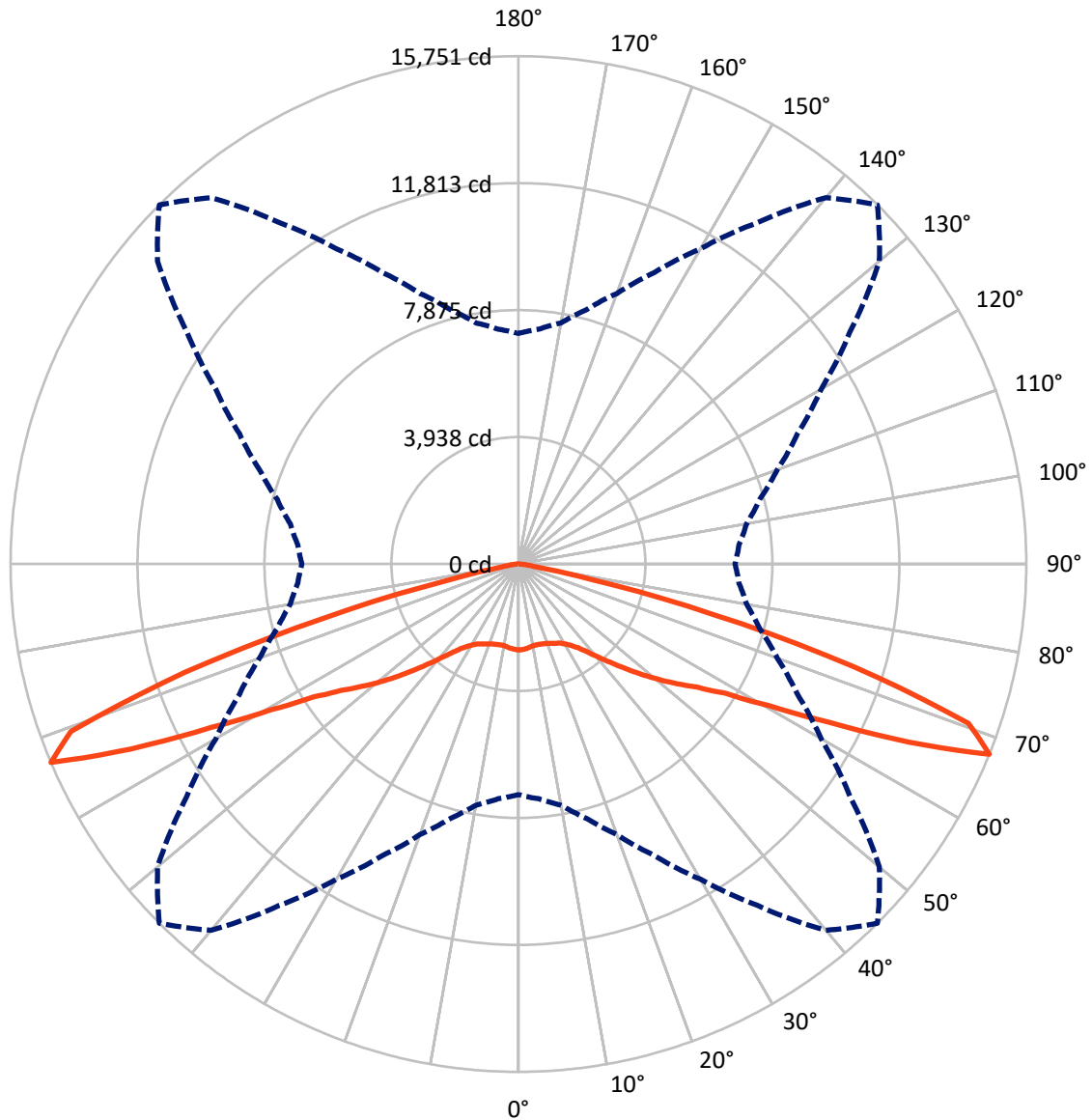


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P192562

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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	13381.0	0.0	13381.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13381.0	0.0	13381.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26762.0	0.0	26762.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	0.9
10°-20°	724.3	2.7
20°-30°	1231.3	4.6
30°-40°	2012.9	7.5
40°-50°	3593.4	13.4
50°-60°	6058.5	22.6
60°-70°	9401.9	35.1
70°-80°	3303.4	12.3
80°-90°	186.7	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°	26762.0	100.0
0°-180°	26762.0	100.0



REPORT NUMBER: P192562

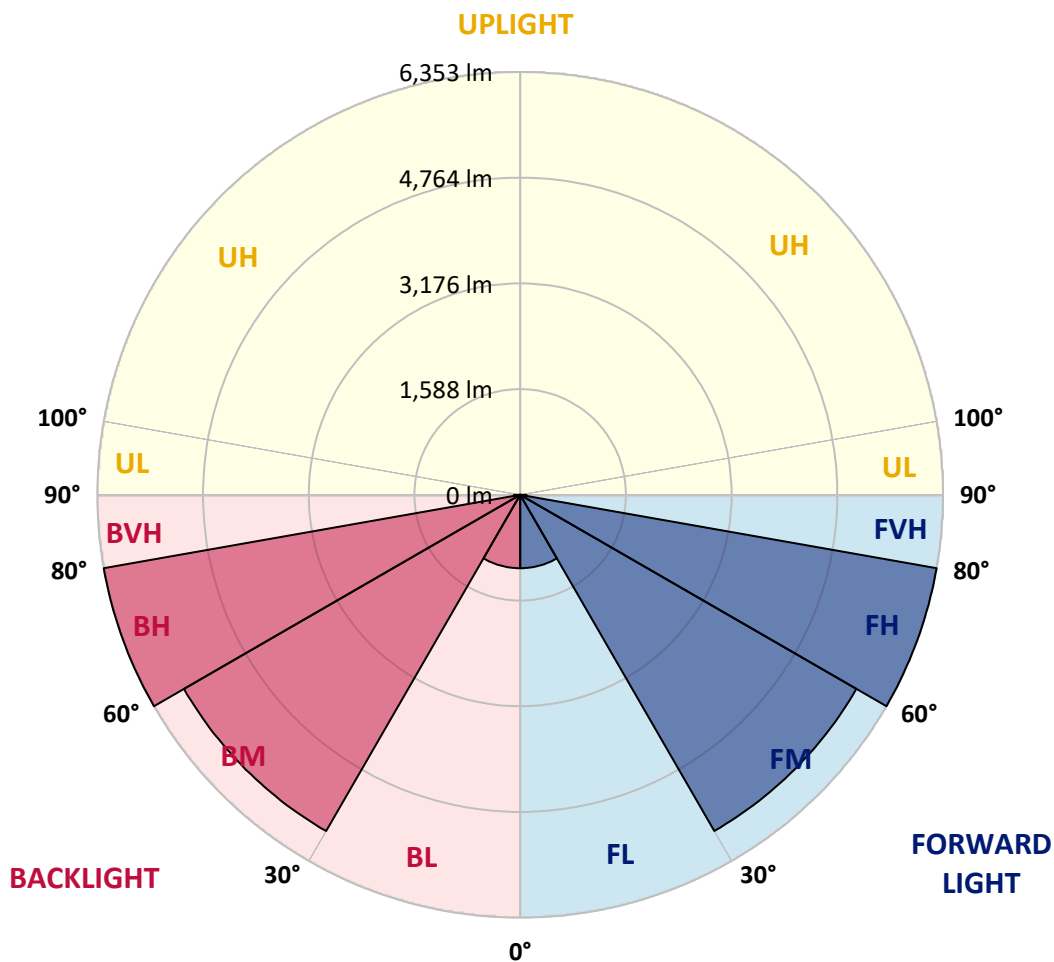
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1102.6	4.1			
FM	(30°-60°)	5832.4	21.8			
FH	(60°-80°)	6352.6	23.7			G3/7500
FVH	(80°-90°)	93.3	0.3			G1/100
BL	(0°-30°)	1102.6	4.1	B3/2500		
BM	(30°-60°)	5832.4	21.8	B4/8500		
BH	(60°-80°)	6352.6	23.7	B5		G3/7500
BVH	(80°-90°)	93.3	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





REPORT NUMBER: P192562

CATALOG NUMBER: GAN-AF-04-LED-U-5MQ-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9
2.5°	2657.0	2659.6	2659.6	2659.6	2658.3	2658.3	2655.9	2658.3	2657.0	2653.4	2654.7
5°	2634.9	2637.4	2637.4	2636.2	2639.8	2638.6	2634.9	2637.4	2636.2	2633.7	2634.9
7.5°	2603.0	2606.6	2606.6	2605.4	2609.1	2607.9	2605.4	2606.6	2606.6	2603.0	2603.0
10°	2567.3	2569.7	2569.7	2568.4	2574.5	2574.5	2573.4	2577.1	2578.3	2574.5	2572.2
12.5°	2534.0	2537.8	2537.8	2542.7	2548.8	2551.2	2557.4	2562.3	2567.3	2566.1	2561.1
15°	2514.4	2516.8	2521.7	2527.8	2537.8	2546.3	2556.2	2567.3	2577.1	2579.6	2572.2
17.5°	2502.0	2505.8	2513.1	2521.7	2535.3	2550.0	2564.8	2579.6	2593.0	2598.0	2589.5
20°	2498.3	2500.8	2508.1	2522.9	2541.4	2563.5	2584.5	2601.7	2620.1	2626.4	2620.1
22.5°	2505.8	2510.7	2519.3	2536.5	2561.1	2589.5	2614.0	2637.4	2660.8	2671.8	2663.3
25°	2538.9	2543.9	2554.9	2577.1	2604.2	2633.7	2662.0	2689.1	2710.0	2721.1	2715.0
27.5°	2600.5	2606.6	2620.1	2642.3	2671.8	2703.8	2734.6	2756.8	2774.0	2777.7	2770.3
30°	2692.8	2706.4	2722.3	2746.9	2781.4	2808.5	2839.2	2859.0	2879.8	2879.8	2873.7
32.5°	2836.8	2850.3	2867.5	2890.9	2918.0	2947.6	2974.6	2991.8	3014.0	3015.2	3000.5
35°	3052.1	3058.2	3073.0	3087.8	3112.5	3138.3	3161.6	3172.8	3191.3	3192.4	3178.9
37.5°	3336.4	3337.7	3347.4	3352.4	3374.6	3402.9	3425.1	3432.5	3449.7	3447.2	3433.7
40°	3667.5	3673.7	3677.3	3684.8	3708.2	3735.2	3758.6	3762.3	3780.7	3777.1	3759.8
42.5°	4050.2	4052.8	4073.6	4084.7	4106.8	4120.3	4150.0	4153.6	4175.8	4165.9	4146.3
45°	4479.7	4501.9	4521.5	4543.8	4567.1	4583.2	4606.6	4601.6	4616.4	4601.6	4590.5
47.5°	4931.4	4947.5	4991.7	5026.3	5064.3	5078.0	5111.1	5096.4	5111.1	5090.2	5086.6
50°	5428.6	5457.0	5495.0	5534.5	5575.1	5597.3	5640.3	5621.8	5641.6	5621.8	5610.8
52.5°	5918.5	5925.9	6009.6	6067.3	6124.0	6149.8	6175.7	6167.0	6168.3	6167.0	6156.0
55°	6383.7	6401.0	6484.6	6563.3	6661.9	6734.4	6778.8	6773.8	6762.7	6751.6	6733.2
57.5°	6907.9	6925.2	7021.2	7118.5	7230.4	7333.8	7423.6	7516.0	7551.7	7561.5	7520.9
60°	7616.9	7615.6	7743.6	7861.7	8021.7	8175.6	8372.5	8573.1	8803.2	8910.3	8768.8
62.5°	8338.0	8367.6	8552.2	8761.4	9091.3	9412.4	9775.5	10132.3	10496.7	10793.2	10478.3
65°	8252.0	8365.1	8639.5	9113.5	9722.6	10446.3	11229.0	12057.2	12805.5	13319.9	12742.7
67.5°	7151.7	7312.8	7592.2	8168.2	8930.0	9973.6	11288.0	12926.1	14830.0	15750.6	14609.7
70°	5183.7	5365.8	5658.7	6221.2	6975.6	7967.6	9395.2	11361.9	13882.4	14810.3	13553.8
72.5°	2579.6	2678.1	2859.0	3217.0	3788.1	4593.0	5887.7	7778.0	10008.1	10859.8	9711.5
75°	876.3	921.8	952.5	1069.5	1250.4	1566.7	2210.4	3400.4	5187.4	6218.7	5113.6
77.5°	505.9	507.1	527.9	548.9	579.6	614.1	700.3	919.3	1590.0	2258.4	1645.5
80°	327.3	326.1	343.4	359.4	380.3	397.4	402.4	425.8	491.0	582.2	520.6
82.5°	169.8	190.7	228.9	249.8	289.2	296.6	286.8	278.2	294.1	305.2	312.6
85°	93.5	81.2	121.9	157.6	174.9	177.2	177.2	167.3	173.5	169.8	184.6
87.5°	43.0	39.4	48.0	77.6	82.5	70.2	73.9	65.2	46.8	45.6	51.7
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°	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9	2666.9
2.5°	2654.7	2655.9	2655.9	2659.6	2660.8	2663.3	2665.7	2666.9
5°	2633.7	2637.4	2634.9	2638.6	2638.6	2641.2	2641.2	2642.3
7.5°	2603.0	2606.6	2606.6	2606.6	2605.4	2609.1	2609.1	2609.1
10°	2571.0	2573.4	2572.2	2569.7	2567.3	2571.0	2569.7	2568.4
12.5°	2561.1	2554.9	2550.0	2547.6	2542.7	2543.9	2540.2	2540.2
15°	2567.3	2556.2	2547.6	2543.9	2538.9	2536.5	2534.0	2535.3
17.5°	2583.2	2569.7	2558.7	2552.6	2546.3	2542.7	2537.8	2538.9
20°	2611.6	2595.6	2579.6	2567.3	2556.2	2550.0	2546.3	2545.0
22.5°	2653.4	2630.0	2606.6	2588.2	2573.4	2564.8	2561.1	2558.7
25°	2701.4	2675.5	2648.5	2627.5	2612.8	2601.7	2594.4	2594.4
27.5°	2761.7	2740.8	2716.1	2691.6	2678.1	2666.9	2662.0	2659.6
30°	2862.6	2842.9	2823.3	2799.9	2782.7	2771.6	2762.9	2755.5
32.5°	2991.8	2975.9	2959.9	2942.6	2926.6	2911.9	2898.3	2892.2
35°	3174.0	3161.6	3150.6	3131.0	3124.9	3116.2	3108.8	3102.6
37.5°	3425.1	3420.2	3420.2	3399.2	3394.2	3390.7	3383.2	3384.5
40°	3754.9	3759.8	3753.7	3746.3	3742.5	3732.8	3732.8	3741.4
42.5°	4145.0	4148.7	4162.2	4150.0	4163.5	4151.2	4143.7	4150.0
45°	4597.9	4611.5	4638.5	4626.2	4634.9	4613.9	4588.2	4589.3
47.5°	5106.2	5118.5	5129.6	5121.0	5122.2	5087.7	5053.2	5044.7
50°	5634.2	5639.1	5645.2	5633.0	5635.4	5597.3	5557.9	5559.1
52.5°	6156.0	6179.3	6204.0	6170.8	6163.5	6120.2	6064.9	6042.8
55°	6752.9	6786.1	6757.8	6700.0	6642.1	6584.3	6511.7	6499.4
57.5°	7488.8	7432.3	7343.7	7234.0	7154.1	7072.9	6999.0	6968.2
60°	8512.8	8299.9	8140.0	7977.4	7875.3	7775.7	7678.4	7663.7
62.5°	9960.1	9592.1	9273.4	8937.4	8662.9	8448.8	8277.7	8229.7
65°	11774.3	10904.1	10149.6	9445.7	8834.0	8372.5	8082.0	7954.1
67.5°	12554.4	10836.4	9542.9	8543.5	7743.6	7184.9	6871.0	6714.7
70°	11032.0	8986.6	7580.0	6579.4	5850.9	5255.2	4970.9	4803.5
72.5°	7589.8	5716.7	4520.4	3689.6	3107.6	2609.1	2412.2	2397.3
75°	3407.8	2257.1	1555.7	1198.7	1009.2	877.5	836.9	806.2
77.5°	953.9	705.2	628.9	588.3	548.9	503.3	486.1	489.8
80°	464.1	438.1	420.8	395.1	359.4	321.2	304.0	311.4
82.5°	307.7	304.0	315.1	296.6	245.0	208.0	174.9	159.9
85°	187.1	189.6	193.2	194.5	164.9	115.7	78.7	88.6
87.5°	73.9	84.9	92.4	96.0	89.8	55.4	44.4	45.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)