

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: P192634

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-5WQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36267.5 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

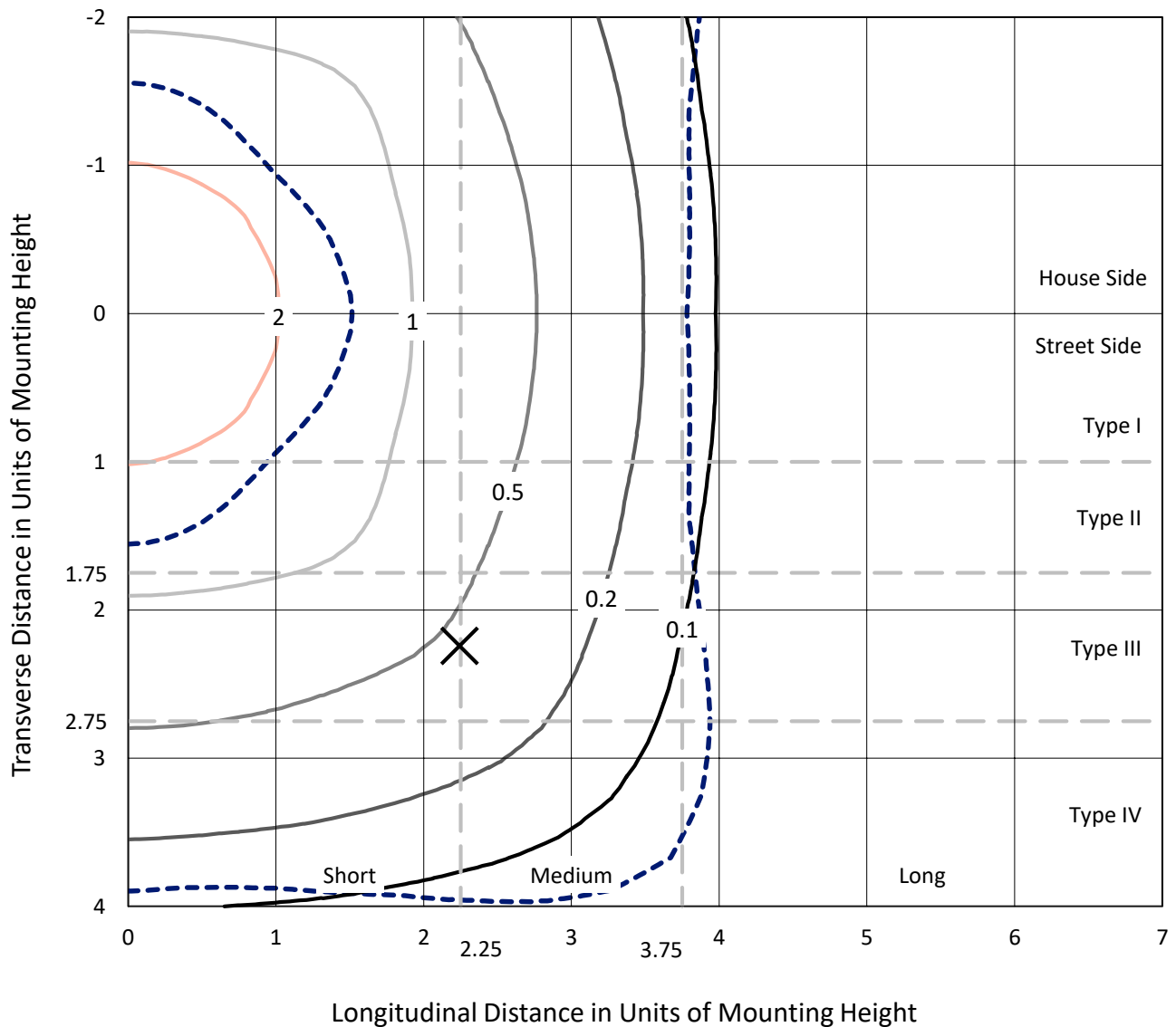
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

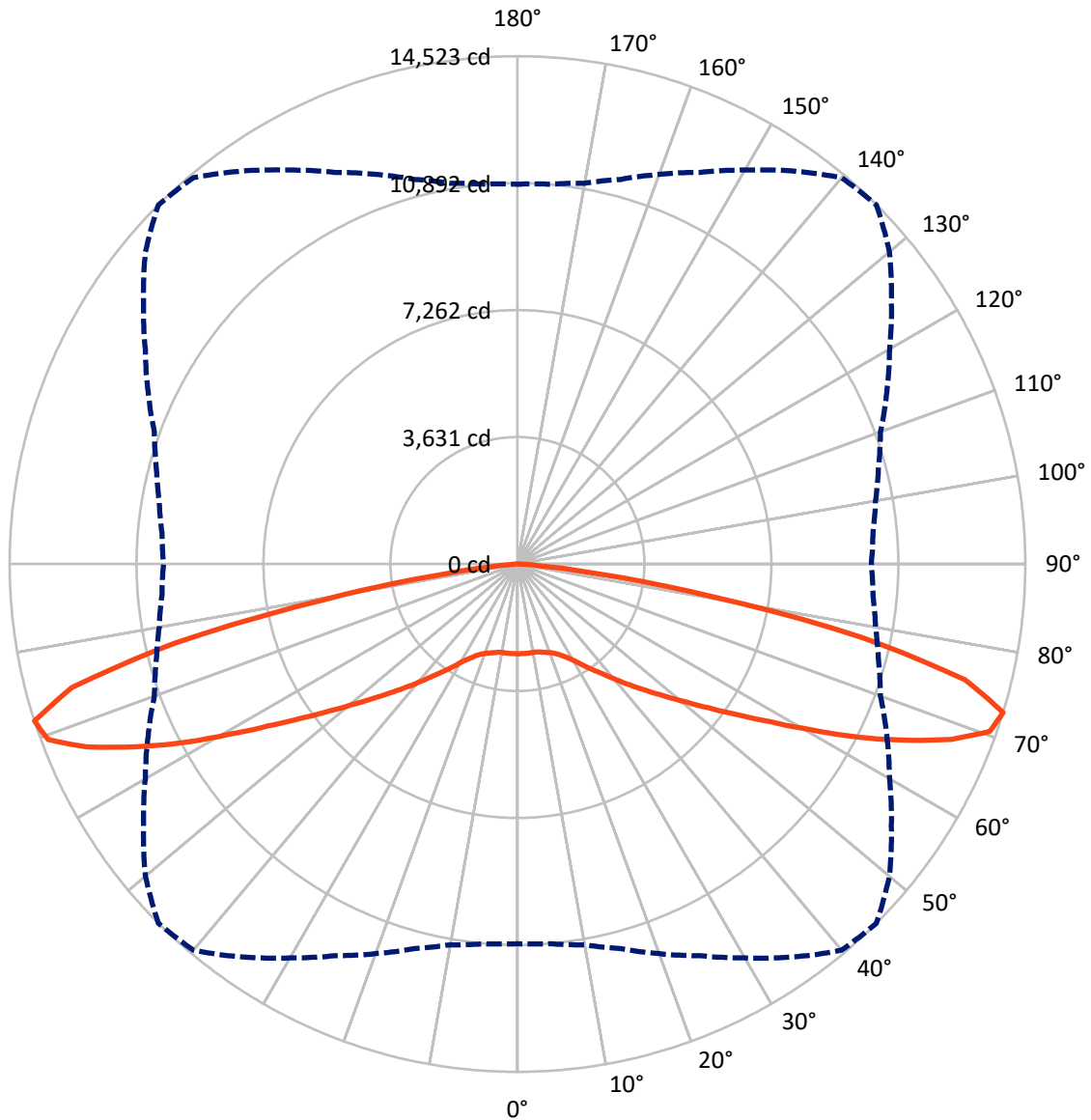
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18133.8	0.0	18133.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18133.8	0.0	18133.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	36267.5	0.0	36267.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	0.7
10°-20°	744.8	2.1
20°-30°	1361.1	3.8
30°-40°	2346.8	6.5
40°-50°	4011.8	11.1
50°-60°	6502.6	17.9
60°-70°	10787.6	29.7
70°-80°	9501.4	26.2
80°-90°	766.1	2.1
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°	36267.5	100.0
0°-180°	36267.5	100.0



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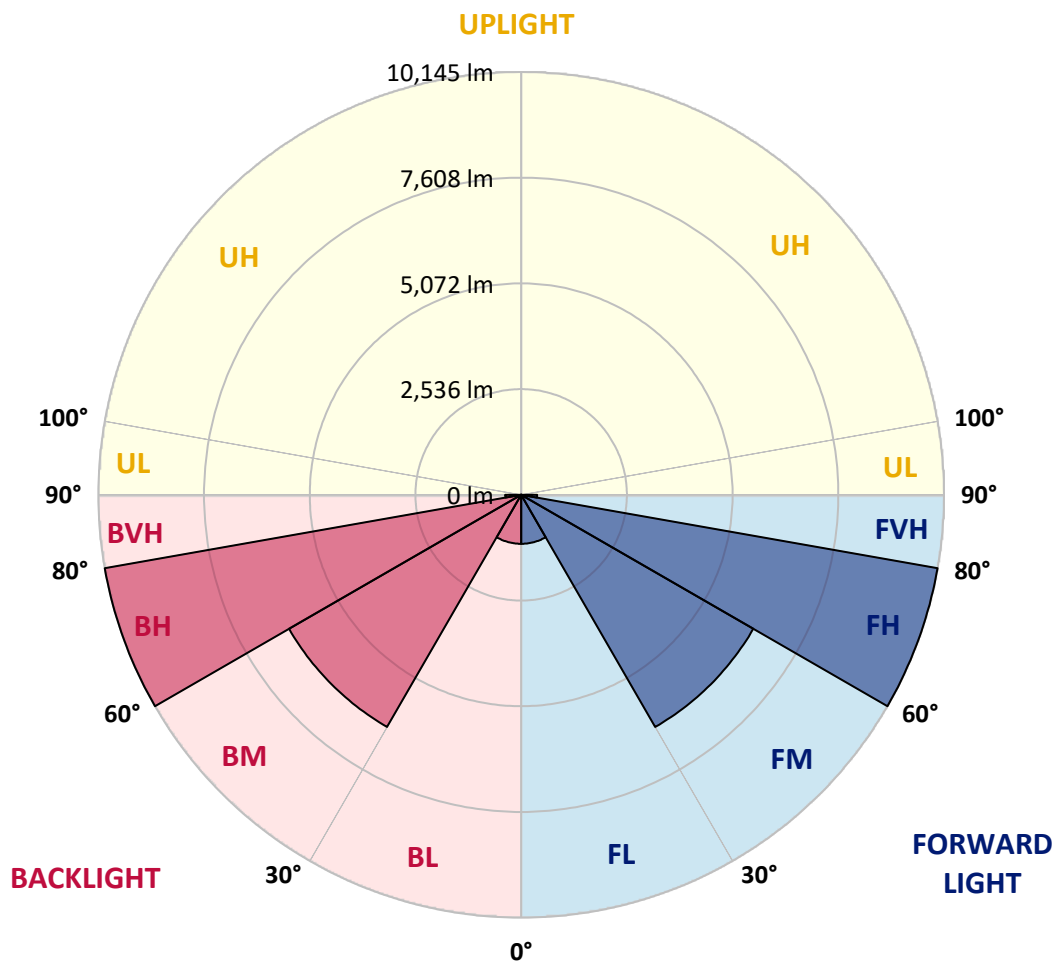
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1175.6	3.2			
FM	(30°-60°)	6430.6	17.7			
FH	(60°-80°)	10144.5	28.0			G4/12000
FVH	(80°-90°)	383.0	1.1			G3/500
BL	(0°-30°)	1175.6	3.2	B3/2500		
BM	(30°-60°)	6430.6	17.7	B4/8500		
BH	(60°-80°)	10144.5	28.0	B5		G4/12000
BVH	(80°-90°)	383.0	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3
2.5°	2568.3	2570.0	2571.6	2570.0	2570.0	2568.3	2566.6	2568.3	2566.6	2563.3	2565.0
5°	2576.7	2579.9	2579.9	2576.7	2578.3	2576.7	2573.3	2574.9	2571.6	2566.6	2566.6
7.5°	2586.6	2588.3	2588.3	2585.0	2586.6	2583.3	2579.9	2578.3	2574.9	2568.3	2563.3
10°	2601.6	2603.2	2601.6	2598.3	2598.3	2593.3	2585.0	2581.6	2574.9	2565.0	2560.0
12.5°	2618.2	2619.8	2618.2	2614.9	2613.3	2604.8	2598.3	2593.3	2588.3	2579.9	2571.6
15°	2641.5	2644.8	2641.5	2634.8	2629.9	2623.2	2619.8	2621.5	2623.2	2616.5	2608.2
17.5°	2684.7	2686.3	2681.4	2666.5	2659.8	2653.2	2653.2	2656.4	2661.4	2658.2	2649.9
20°	2764.6	2759.6	2748.0	2729.7	2721.3	2709.7	2708.0	2709.7	2709.7	2708.0	2701.3
22.5°	2864.3	2861.1	2846.1	2822.8	2811.1	2804.4	2794.6	2786.2	2784.6	2779.5	2772.9
25°	2984.2	2982.4	2964.2	2944.2	2935.9	2927.6	2919.3	2907.6	2897.7	2886.0	2879.3
27.5°	3137.2	3130.5	3103.9	3093.9	3082.3	3077.3	3065.7	3052.3	3044.1	3029.1	3020.8
30°	3305.2	3305.2	3283.6	3280.3	3280.3	3268.6	3255.3	3232.0	3217.0	3202.1	3197.0
32.5°	3473.3	3474.9	3453.2	3459.9	3464.8	3473.3	3476.5	3468.2	3458.3	3456.5	3446.6
35°	3716.0	3709.4	3687.8	3692.8	3691.1	3689.4	3689.4	3707.7	3711.1	3714.4	3694.4
37.5°	4017.1	4017.1	3995.5	3995.5	3985.6	3975.5	3962.3	3973.9	3992.3	3997.1	3983.8
40°	4361.4	4373.1	4346.5	4344.8	4348.2	4316.5	4301.5	4319.9	4331.5	4351.5	4336.5
42.5°	4767.3	4759.0	4732.3	4729.1	4710.8	4700.8	4687.4	4702.4	4720.8	4734.1	4739.0
45°	5156.6	5149.9	5120.0	5120.0	5101.7	5093.3	5100.0	5125.0	5133.3	5151.6	5169.9
47.5°	5540.9	5532.5	5512.5	5520.9	5522.5	5537.5	5559.1	5582.4	5605.6	5630.6	5639.0
50°	5933.5	5935.1	5913.4	5933.5	5958.4	5999.9	6058.1	6096.4	6144.6	6176.2	6186.3
52.5°	6291.0	6297.7	6320.9	6367.5	6417.5	6499.0	6598.7	6691.9	6771.8	6825.0	6821.6
55°	6720.2	6730.2	6786.7	6866.5	6948.1	7071.2	7219.2	7383.8	7516.9	7593.4	7545.2
57.5°	7269.1	7290.8	7353.9	7462.1	7583.4	7743.2	7946.1	8194.0	8400.2	8503.3	8425.2
60°	8022.6	8035.9	8112.5	8232.2	8378.5	8576.6	8847.7	9180.4	9471.4	9607.8	9518.0
62.5°	9015.6	9040.6	9102.2	9223.5	9373.4	9597.9	9928.9	10344.7	10707.4	10897.0	10694.1
65°	10201.6	10281.6	10333.0	10456.2	10596.0	10833.8	11179.7	11625.5	12014.8	12139.6	11905.0
67.5°	11376.1	11445.9	11535.7	11677.1	11818.6	12086.4	12407.4	12839.8	13267.4	13380.4	13016.2
70°	11890.0	11930.0	12069.7	12262.6	12533.7	12849.9	13220.8	13706.5	14235.5	14328.6	13866.2
72.5°	10860.4	10900.4	11056.7	11384.4	11856.9	12359.1	13006.2	13719.8	14418.4	14523.2	13886.1
75°	8213.9	8149.0	8380.3	8814.4	9451.5	10151.9	11056.7	12079.7	13089.4	13220.8	12460.6
77.5°	4245.0	4236.7	4411.4	4950.3	5710.4	6507.3	7503.6	8659.7	9647.8	10047.1	9428.2
80°	1196.0	1209.3	1292.4	1560.3	2004.4	2579.9	3358.4	4441.3	5249.7	5662.3	5316.2
82.5°	469.0	505.7	537.2	587.2	645.4	730.3	974.8	1450.5	1946.2	2325.5	1904.6
85°	168.0	179.6	254.5	301.1	306.0	322.8	367.6	429.2	517.4	617.1	507.3
87.5°	63.3	69.8	81.5	134.7	133.1	121.4	148.0	154.7	116.5	106.4	131.4
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°	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3	2568.3
2.5°	2561.7	2563.3	2563.3	2565.0	2566.6	2566.6	2570.0	2570.0
5°	2563.3	2563.3	2560.0	2561.7	2560.0	2560.0	2561.7	2561.7
7.5°	2560.0	2558.3	2555.0	2553.3	2550.0	2550.0	2550.0	2550.0
10°	2555.0	2553.3	2550.0	2548.4	2546.8	2546.8	2546.8	2546.8
12.5°	2568.3	2563.3	2560.0	2558.3	2558.3	2558.3	2558.3	2558.3
15°	2603.2	2591.6	2583.3	2583.3	2585.0	2588.3	2588.3	2591.6
17.5°	2646.5	2633.1	2624.9	2618.2	2621.5	2626.5	2629.9	2633.1
20°	2698.0	2691.4	2679.8	2673.1	2673.1	2679.8	2683.1	2684.7
22.5°	2769.6	2764.6	2759.6	2751.2	2751.2	2754.7	2761.3	2761.3
25°	2876.0	2872.8	2869.3	2862.7	2861.1	2861.1	2864.3	2867.7
27.5°	3009.1	3010.7	3007.5	3005.8	3000.8	2999.1	3004.1	3002.5
30°	3187.1	3195.4	3203.7	3197.0	3188.7	3183.9	3178.8	3172.2
32.5°	3428.3	3418.2	3411.6	3400.0	3385.1	3371.7	3361.8	3350.1
35°	3656.2	3639.5	3632.9	3642.8	3641.2	3632.9	3621.3	3611.2
37.5°	3935.6	3932.3	3935.6	3953.9	3950.6	3958.9	3935.6	3934.0
40°	4288.3	4291.6	4314.8	4336.5	4348.2	4359.8	4346.5	4333.2
42.5°	4697.5	4695.9	4704.1	4734.1	4754.0	4767.3	4739.0	4735.8
45°	5129.9	5118.4	5125.0	5149.9	5169.9	5184.9	5153.2	5153.2
47.5°	5605.6	5585.8	5564.1	5592.4	5604.0	5614.0	5589.0	5580.8
50°	6136.3	6094.7	6048.1	6059.8	6059.8	6056.5	6024.9	6023.3
52.5°	6745.1	6668.6	6583.8	6552.2	6533.9	6513.9	6459.0	6432.4
55°	7445.5	7330.6	7197.6	7116.0	7072.8	7017.9	6926.4	6901.5
57.5°	8263.9	8084.2	7854.6	7754.7	7658.3	7568.5	7467.0	7438.8
60°	9233.6	8969.1	8664.7	8480.0	8375.3	8288.7	8183.9	8178.9
62.5°	10314.8	9897.2	9553.0	9386.6	9310.1	9233.6	9133.7	9147.0
65°	11414.4	10978.5	10655.8	10521.0	10449.5	10386.3	10286.5	10301.5
67.5°	12498.8	12097.9	11743.6	11605.6	11525.8	11445.9	11356.1	11371.0
70°	13277.3	12779.9	12380.7	12074.7	11883.4	11667.1	11527.4	11492.6
72.5°	13054.4	12287.7	11653.8	11046.6	10690.7	10401.3	10205.1	10120.1
75°	11297.9	10249.9	9434.9	8689.6	8270.5	7929.5	7681.6	7527.0
77.5°	8390.2	7212.5	6249.4	5391.1	4712.5	4256.6	3935.6	3727.7
80°	4592.7	3493.1	2553.3	1794.8	1319.1	1096.2	968.1	906.6
82.5°	1430.5	923.2	680.3	587.2	545.6	522.3	484.0	422.5
85°	455.7	399.3	370.9	354.3	337.7	294.5	202.9	184.6
87.5°	176.4	181.3	179.6	169.7	172.9	124.8	99.8	88.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)