

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: P268890

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268890
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-10-LED-U-5WQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35523.7 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 323
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

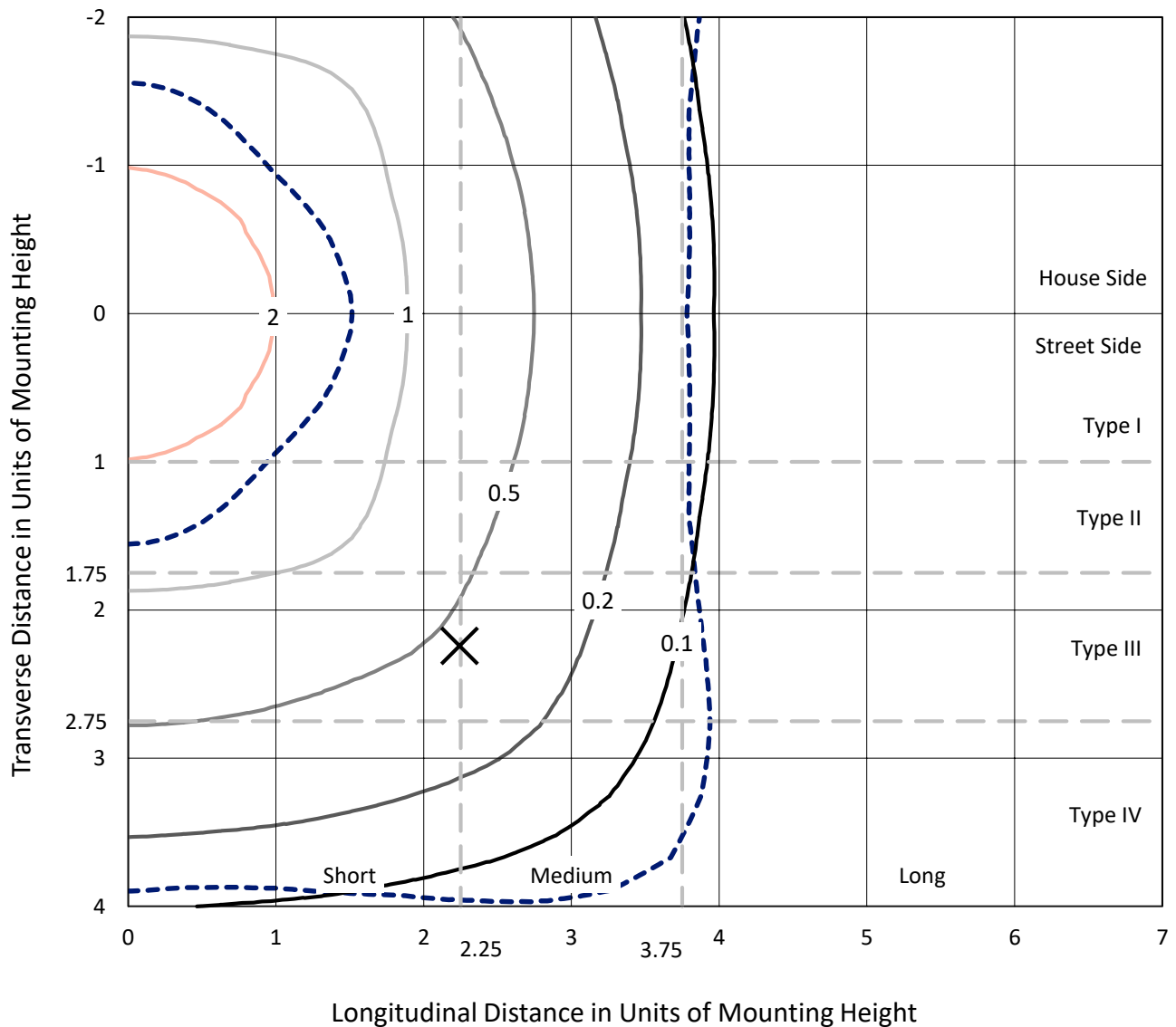


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

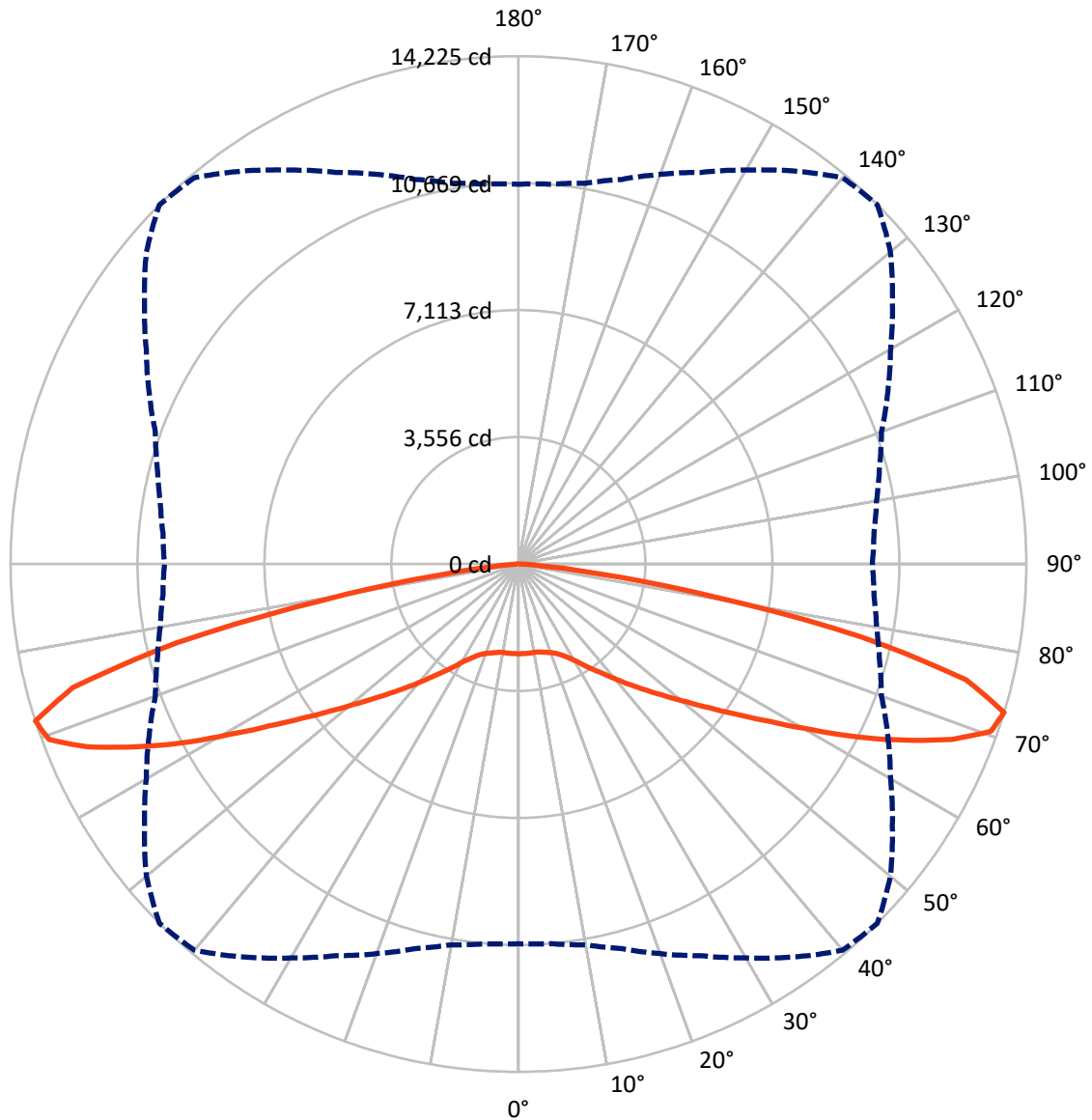


Based on 30 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

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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	17761.9	0.0	17761.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17761.9	0.0	17761.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	35523.7	0.0	35523.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	0.7
10°-20°	729.6	2.1
20°-30°	1333.2	3.8
30°-40°	2298.7	6.5
40°-50°	3929.5	11.1
50°-60°	6369.3	17.9
60°-70°	10566.4	29.7
70°-80°	9306.5	26.2
80°-90°	750.4	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°	35523.7	100.0
0°-180°	35523.7	100.0



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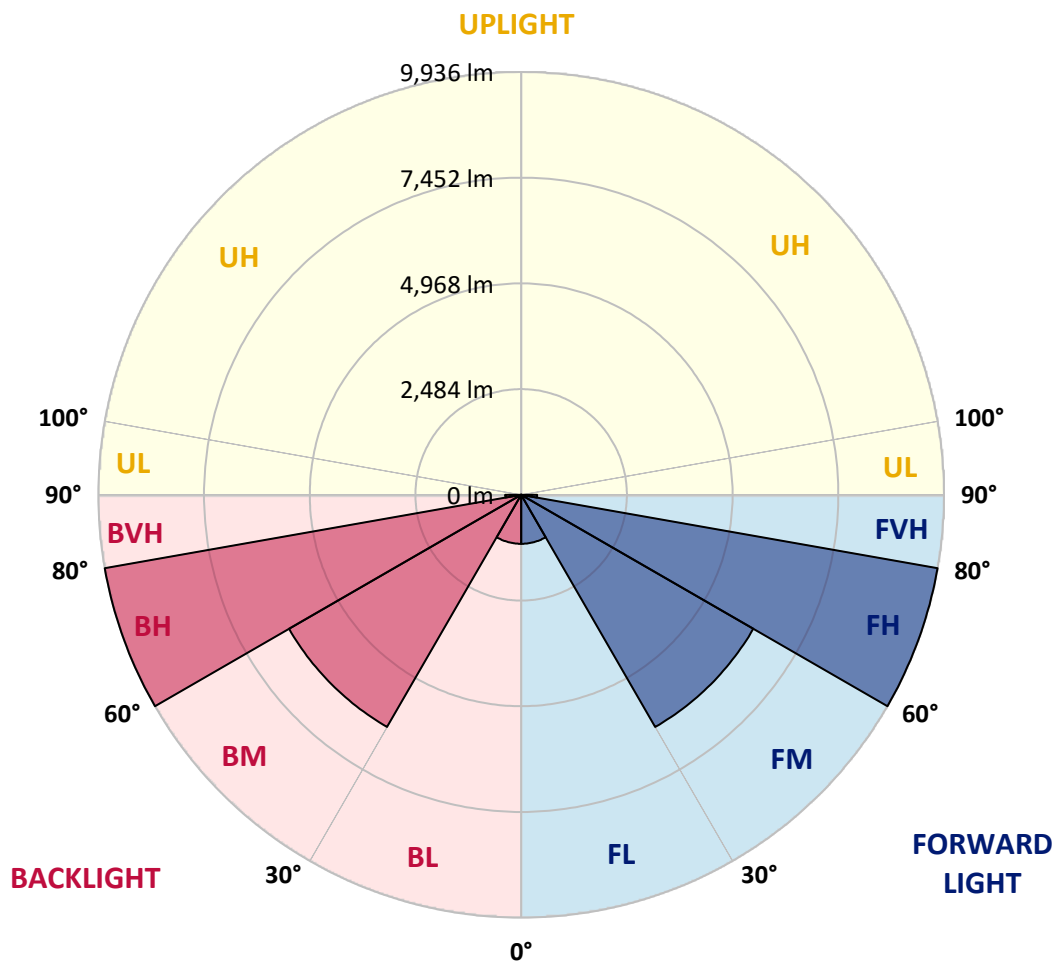
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1151.5	3.2			
FM	(30°-60°)	6298.7	17.7			
FH	(60°-80°)	9936.5	28.0			G4/12000
FVH	(80°-90°)	375.2	1.1			G3/500
BL	(0°-30°)	1151.5	3.2	B3/2500		
BM	(30°-60°)	6298.7	17.7	B4/8500		
BH	(60°-80°)	9936.5	28.0	B5		G4/12000
BVH	(80°-90°)	375.2	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°	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7
2.5°	2515.7	2517.3	2518.8	2517.3	2517.3	2515.7	2513.9	2515.7	2513.9	2510.8	2512.4
5°	2523.8	2527.0	2527.0	2523.8	2525.4	2523.8	2520.6	2522.1	2518.8	2513.9	2513.9
7.5°	2533.6	2535.1	2535.1	2532.0	2533.6	2530.3	2527.0	2525.4	2522.1	2515.7	2510.8
10°	2548.2	2549.8	2548.2	2545.0	2545.0	2540.0	2532.0	2528.6	2522.1	2512.4	2507.4
12.5°	2564.5	2566.2	2564.5	2561.2	2559.6	2551.5	2545.0	2540.0	2535.1	2527.0	2518.8
15°	2587.3	2590.6	2587.3	2580.8	2575.9	2569.4	2566.2	2567.7	2569.4	2562.9	2554.7
17.5°	2629.7	2631.3	2626.5	2611.7	2605.3	2598.7	2598.7	2602.0	2606.9	2603.6	2595.5
20°	2707.9	2703.0	2691.6	2673.6	2665.5	2654.1	2652.4	2654.1	2654.1	2652.4	2646.0
22.5°	2805.6	2802.4	2787.7	2765.0	2753.6	2746.9	2737.2	2729.1	2727.4	2722.6	2716.0
25°	2922.9	2921.3	2903.4	2883.9	2875.7	2867.6	2859.5	2847.9	2838.3	2826.8	2820.3
27.5°	3072.8	3066.4	3040.3	3030.5	3019.1	3014.3	3002.8	2989.7	2981.7	2966.9	2958.7
30°	3237.4	3237.4	3216.2	3213.0	3213.0	3201.6	3188.5	3165.7	3151.1	3136.4	3131.5
32.5°	3402.1	3403.6	3382.4	3388.9	3393.8	3402.1	3405.2	3397.1	3387.2	3385.7	3375.9
35°	3639.8	3633.4	3612.2	3617.0	3615.4	3613.8	3613.8	3631.7	3634.9	3638.2	3618.6
37.5°	3934.8	3934.8	3913.6	3913.6	3903.8	3894.1	3880.9	3892.4	3910.3	3915.3	3902.1
40°	4272.0	4283.4	4257.3	4255.7	4259.0	4228.1	4213.4	4231.2	4242.6	4262.3	4247.5
42.5°	4669.6	4661.5	4635.3	4632.1	4614.1	4604.4	4591.3	4606.0	4623.9	4637.1	4641.8
45°	5050.8	5044.3	5015.0	5015.0	4997.0	4988.8	4995.5	5019.9	5028.1	5045.9	5063.8
47.5°	5427.2	5419.0	5399.5	5407.6	5409.2	5424.0	5445.0	5468.0	5490.7	5515.1	5523.3
50°	5811.8	5813.3	5792.1	5811.8	5836.2	5876.9	5933.9	5971.4	6018.6	6049.5	6059.3
52.5°	6162.1	6168.5	6191.3	6236.9	6285.8	6365.7	6463.5	6554.7	6632.8	6684.9	6681.8
55°	6582.4	6592.1	6647.5	6725.7	6805.6	6926.1	7071.2	7232.4	7362.8	7437.7	7390.4
57.5°	7120.1	7141.2	7203.1	7309.0	7427.9	7584.4	7783.2	8025.8	8227.9	8328.9	8252.4
60°	7858.2	7871.0	7946.0	8063.4	8206.7	8400.7	8666.2	8992.0	9277.2	9410.9	9322.8
62.5°	8830.8	8855.2	8915.5	9034.4	9181.0	9401.0	9725.3	10132.6	10487.8	10673.5	10474.7
65°	9992.4	10070.7	10121.3	10241.8	10378.6	10611.6	10950.5	11387.2	11768.3	11890.7	11660.9
67.5°	11142.8	11211.1	11299.2	11437.7	11576.2	11838.5	12152.9	12576.5	12995.3	13106.0	12749.3
70°	11646.2	11685.3	11822.1	12011.1	12276.7	12586.3	12949.6	13425.3	13943.5	14034.8	13581.8
72.5°	10637.6	10676.7	10830.0	11150.9	11613.6	12105.6	12739.5	13438.5	14122.8	14225.4	13601.3
75°	8045.5	7981.9	8208.4	8633.6	9257.7	9943.6	10830.0	11831.9	12820.9	12949.6	12205.0
77.5°	4158.0	4149.8	4320.8	4848.8	5593.3	6373.8	7349.8	8482.2	9449.9	9840.9	9234.8
80°	1171.5	1184.4	1265.9	1528.2	1963.2	2527.0	3289.6	4350.2	5142.1	5546.1	5207.3
82.5°	459.5	495.3	526.2	575.2	632.1	715.3	954.8	1420.8	1906.3	2277.7	1865.5
85°	164.6	176.0	249.3	295.0	299.8	316.1	360.1	420.3	506.7	604.5	496.9
87.5°	62.0	68.5	79.8	132.1	130.3	118.9	144.9	151.5	114.1	104.3	128.6
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°	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7	2515.7
2.5°	2509.1	2510.8	2510.8	2512.4	2513.9	2513.9	2517.3	2517.3
5°	2510.8	2510.8	2507.4	2509.1	2507.4	2507.4	2509.1	2509.1
7.5°	2507.4	2505.8	2502.6	2501.1	2497.6	2497.6	2497.6	2497.6
10°	2502.6	2501.1	2497.6	2496.1	2494.5	2494.5	2494.5	2494.5
12.5°	2515.7	2510.8	2507.4	2505.8	2505.8	2505.8	2505.8	2505.8
15°	2549.8	2538.4	2530.3	2530.3	2532.0	2535.1	2535.1	2538.4
17.5°	2592.1	2579.2	2570.9	2564.5	2567.7	2572.7	2575.9	2579.2
20°	2642.8	2636.2	2624.8	2618.3	2618.3	2624.8	2628.0	2629.7
22.5°	2712.8	2707.9	2703.0	2694.8	2694.8	2698.1	2704.6	2704.6
25°	2817.1	2813.9	2810.5	2804.0	2802.4	2802.4	2805.6	2808.9
27.5°	2947.3	2949.0	2945.7	2944.1	2939.3	2937.5	2942.5	2941.0
30°	3121.7	3129.9	3138.0	3131.5	3123.3	3118.5	3113.5	3107.1
32.5°	3358.0	3348.3	3341.7	3330.2	3315.6	3302.6	3292.7	3281.4
35°	3581.3	3565.0	3558.4	3568.2	3566.5	3558.4	3547.0	3537.2
37.5°	3854.8	3851.7	3854.8	3872.9	3869.5	3877.8	3854.8	3853.3
40°	4200.4	4203.6	4226.3	4247.5	4259.0	4270.5	4257.3	4244.3
42.5°	4601.1	4599.5	4607.6	4637.1	4656.5	4669.6	4641.8	4638.6
45°	5024.8	5013.4	5019.9	5044.3	5063.8	5078.5	5047.5	5047.5
47.5°	5490.7	5471.1	5449.9	5477.7	5489.2	5498.9	5474.5	5466.2
50°	6010.5	5969.7	5924.1	5935.6	5935.6	5932.2	5901.3	5899.7
52.5°	6606.9	6531.8	6448.8	6417.9	6399.9	6380.3	6326.6	6300.5
55°	7292.7	7180.3	7050.0	6970.0	6927.8	6874.0	6784.4	6759.9
57.5°	8094.4	7918.4	7693.5	7595.8	7501.2	7413.4	7313.9	7286.2
60°	9044.2	8785.2	8486.9	8306.2	8203.5	8118.8	8016.1	8011.3
62.5°	10103.2	9694.2	9357.0	9194.2	9119.1	9044.2	8946.5	8959.4
65°	11180.2	10753.3	10437.2	10305.3	10235.3	10173.3	10075.6	10090.2
67.5°	12242.6	11849.9	11502.8	11367.6	11289.4	11211.1	11123.3	11137.8
70°	13005.0	12517.9	12126.8	11827.1	11639.7	11427.9	11291.1	11256.8
72.5°	12786.7	12035.6	11414.9	10820.2	10471.5	10187.9	9995.7	9912.6
75°	11066.2	10039.6	9241.4	8511.4	8100.8	7766.8	7524.2	7372.6
77.5°	8218.1	7064.6	6121.3	5280.5	4615.9	4169.4	3854.8	3651.3
80°	4498.5	3421.6	2501.1	1758.1	1292.0	1073.7	948.3	888.0
82.5°	1401.1	904.2	666.5	575.2	534.4	511.7	474.1	413.8
85°	446.5	391.0	363.4	347.0	330.8	288.4	198.7	180.9
87.5°	172.7	177.5	176.0	166.1	169.4	122.2	97.7	86.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)