

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: P266972

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266972
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-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 32579.3 lumens
Efficiency: N/A
Efficacy: 97.8 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

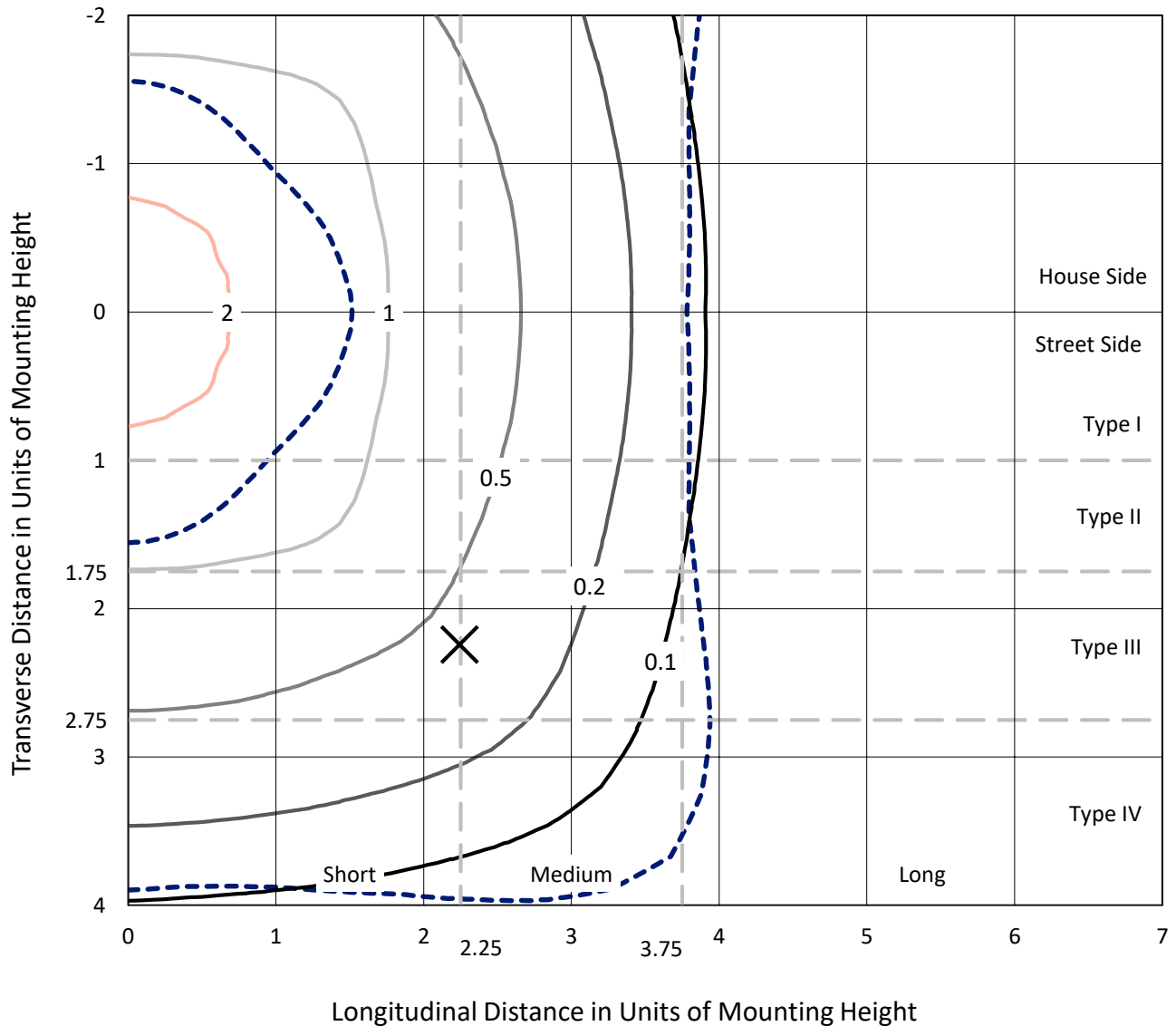


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

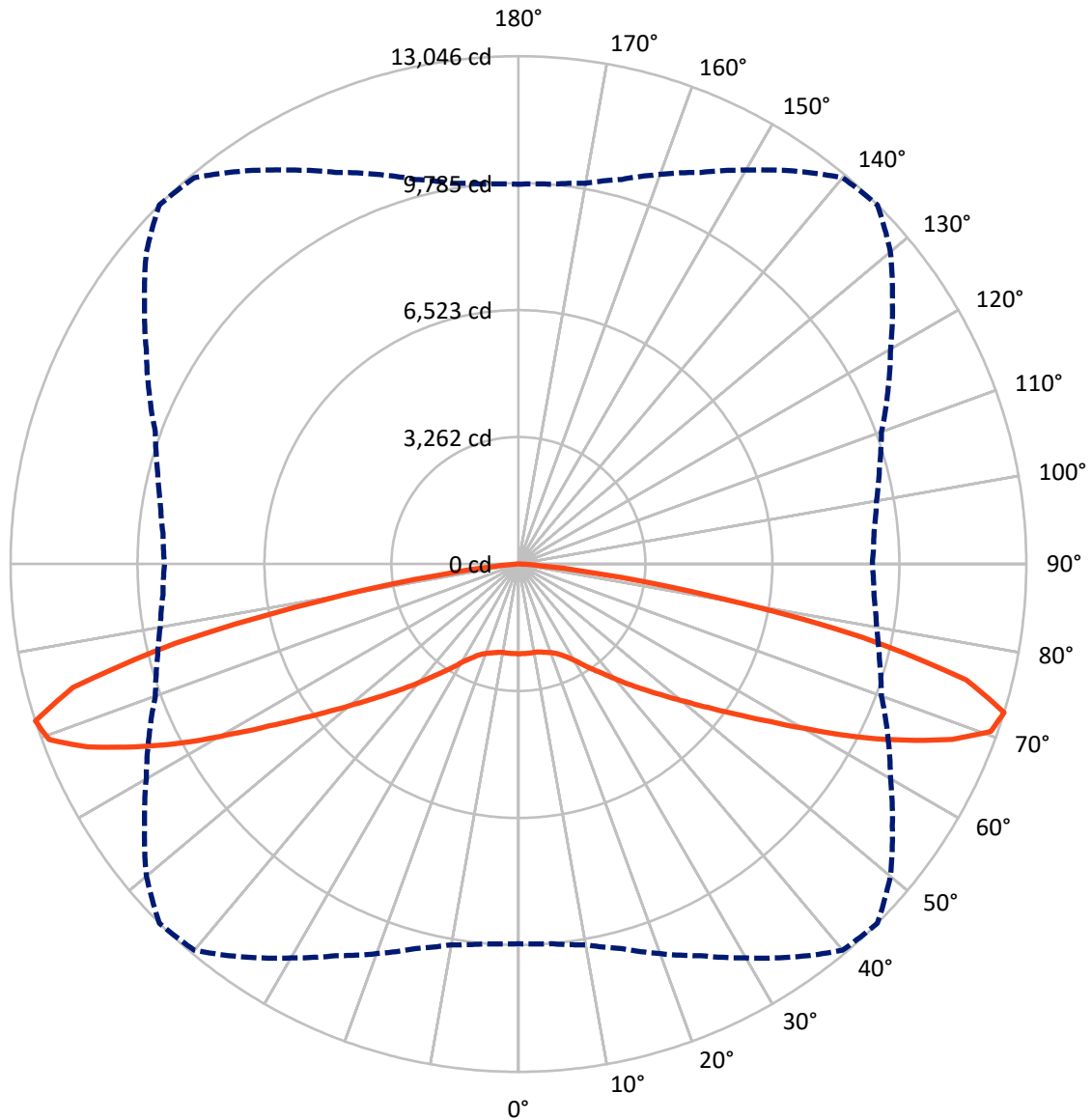


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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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	16289.6	0.0	16289.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16289.6	0.0	16289.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	32579.3	0.0	32579.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	0.7
10°-20°	669.1	2.1
20°-30°	1222.7	3.8
30°-40°	2108.1	6.5
40°-50°	3603.8	11.1
50°-60°	5841.3	17.9
60°-70°	9690.6	29.7
70°-80°	8535.1	26.2
80°-90°	688.2	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°	32579.3	100.0
0°-180°	32579.3	100.0

Coefficient of Utilization



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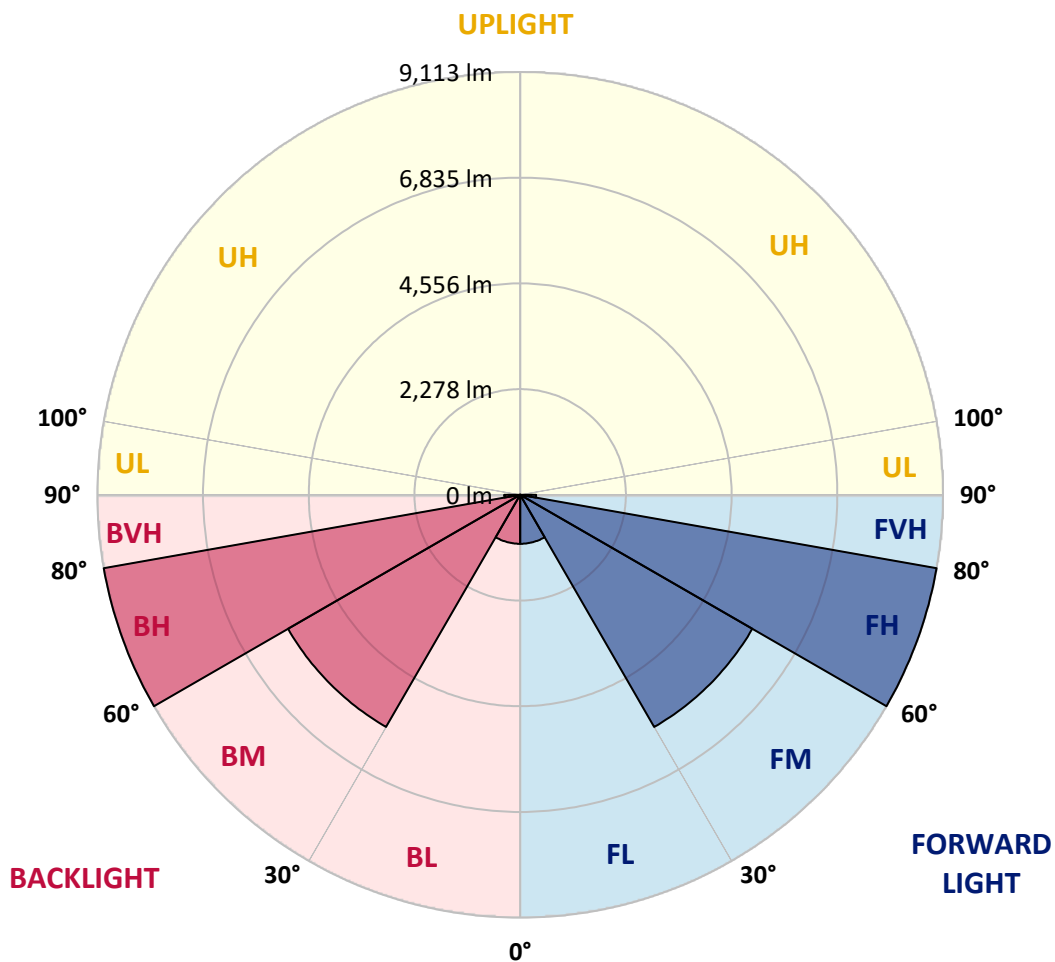
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1056.0	3.2			
FM	(30°-60°)	5776.7	17.7			
FH	(60°-80°)	9112.9	28.0			G4/12000
FVH	(80°-90°)	344.1	1.1			G3/500
BL	(0°-30°)	1056.0	3.2	B3/2500		
BM	(30°-60°)	5776.7	17.7	B4/8500		
BH	(60°-80°)	9112.9	28.0	B5		G4/12000
BVH	(80°-90°)	344.1	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°	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1
2.5°	2307.1	2308.6	2310.1	2308.6	2308.6	2307.1	2305.6	2307.1	2305.6	2302.6	2304.2
5°	2314.7	2317.5	2317.5	2314.7	2316.1	2314.7	2311.6	2313.0	2310.1	2305.6	2305.6
7.5°	2323.6	2325.1	2325.1	2322.1	2323.6	2320.6	2317.5	2316.1	2313.0	2307.1	2302.6
10°	2337.0	2338.5	2337.0	2334.1	2334.1	2329.6	2322.1	2319.1	2313.0	2304.2	2299.7
12.5°	2351.9	2353.4	2351.9	2349.0	2347.5	2339.9	2334.1	2329.6	2325.1	2317.5	2310.1
15°	2372.9	2375.8	2372.9	2366.9	2362.5	2356.4	2353.4	2354.9	2356.4	2350.4	2343.0
17.5°	2411.7	2413.1	2408.7	2395.3	2389.3	2383.4	2383.4	2386.3	2390.7	2387.9	2380.4
20°	2483.5	2479.0	2468.5	2452.1	2444.6	2434.1	2432.6	2434.1	2434.1	2432.6	2426.6
22.5°	2573.0	2570.1	2556.7	2535.7	2525.2	2519.2	2510.4	2502.9	2501.4	2496.8	2490.9
25°	2680.7	2679.1	2662.8	2644.8	2637.3	2629.9	2622.4	2611.9	2603.0	2592.5	2586.5
27.5°	2818.2	2812.1	2788.2	2779.3	2768.8	2764.4	2753.9	2741.9	2734.5	2721.1	2713.6
30°	2969.1	2969.1	2949.7	2946.7	2946.7	2936.2	2924.3	2903.3	2889.8	2876.5	2871.9
32.5°	3120.1	3121.5	3102.0	3108.0	3112.4	3120.1	3123.0	3115.5	3106.6	3105.0	3096.1
35°	3338.1	3332.2	3312.8	3317.3	3315.7	3314.2	3314.2	3330.6	3333.7	3336.7	3318.7
37.5°	3608.6	3608.6	3589.2	3589.2	3580.3	3571.2	3559.4	3569.8	3586.3	3590.6	3578.7
40°	3917.9	3928.4	3904.5	3903.0	3906.0	3877.5	3864.1	3880.6	3891.0	3909.0	3895.5
42.5°	4282.5	4275.0	4251.0	4248.2	4231.7	4222.8	4210.7	4224.2	4240.7	4252.7	4257.1
45°	4632.2	4626.2	4599.3	4599.3	4582.9	4575.3	4581.4	4603.8	4611.3	4627.7	4644.1
47.5°	4977.4	4969.9	4951.9	4959.5	4960.9	4974.4	4993.8	5014.7	5035.5	5058.0	5065.5
50°	5330.1	5331.5	5312.0	5330.1	5352.5	5389.7	5442.0	5476.4	5519.7	5548.1	5557.2
52.5°	5651.2	5657.3	5678.1	5720.0	5764.9	5838.1	5927.6	6011.4	6083.1	6130.9	6127.9
55°	6036.8	6045.8	6096.5	6168.2	6241.5	6352.1	6485.0	6632.9	6752.5	6821.2	6777.9
57.5°	6529.9	6549.4	6606.0	6703.2	6812.2	6955.8	7138.0	7360.7	7545.9	7638.6	7568.4
60°	7206.7	7218.7	7287.5	7395.0	7526.4	7704.4	7947.9	8246.8	8508.2	8630.7	8550.1
62.5°	8098.8	8121.2	8176.6	8285.5	8420.2	8621.8	8919.2	9292.7	9618.5	9788.8	9606.6
65°	9164.1	9236.0	9282.2	9392.9	9518.4	9732.1	10042.8	10443.2	10793.0	10905.1	10694.3
67.5°	10219.2	10281.9	10362.6	10489.6	10616.7	10857.3	11145.6	11534.1	11918.2	12019.7	11692.5
70°	10680.8	10716.8	10842.3	11015.6	11259.1	11543.1	11876.3	12312.6	12787.8	12871.5	12456.1
72.5°	9756.0	9791.9	9932.3	10226.7	10651.1	11102.2	11683.5	12324.6	12952.1	13046.3	12474.0
75°	7378.6	7320.3	7528.1	7918.0	8490.3	9119.5	9932.3	10851.3	11758.3	11876.3	11193.4
77.5°	3813.3	3805.8	3962.8	4446.9	5129.7	5845.5	6740.5	7779.1	8666.7	9025.4	8469.4
80°	1074.4	1086.3	1161.0	1401.6	1800.6	2317.5	3016.9	3989.6	4715.8	5086.5	4775.6
82.5°	421.3	454.3	482.6	527.5	579.8	656.0	875.7	1303.0	1748.3	2089.0	1710.9
85°	150.9	161.3	228.6	270.5	274.9	290.0	330.2	385.6	464.8	554.3	455.7
87.5°	56.9	62.7	73.2	121.0	119.6	109.1	132.9	139.0	104.7	95.6	118.0
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°	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1
2.5°	2301.2	2302.6	2302.6	2304.2	2305.6	2305.6	2308.6	2308.6
5°	2302.6	2302.6	2299.7	2301.2	2299.7	2299.7	2301.2	2301.2
7.5°	2299.7	2298.1	2295.2	2293.6	2290.7	2290.7	2290.7	2290.7
10°	2295.2	2293.6	2290.7	2289.2	2287.8	2287.8	2287.8	2287.8
12.5°	2307.1	2302.6	2299.7	2298.1	2298.1	2298.1	2298.1	2298.1
15°	2338.5	2328.0	2320.6	2320.6	2322.1	2325.1	2325.1	2328.0
17.5°	2377.4	2365.3	2358.0	2351.9	2354.9	2359.4	2362.5	2365.3
20°	2423.6	2417.7	2407.3	2401.3	2401.3	2407.3	2410.2	2411.7
22.5°	2487.9	2483.5	2479.0	2471.4	2471.4	2474.6	2480.5	2480.5
25°	2583.5	2580.7	2577.5	2571.6	2570.1	2570.1	2573.0	2576.1
27.5°	2703.1	2704.5	2701.7	2700.1	2695.6	2694.1	2698.6	2697.2
30°	2863.0	2870.4	2877.9	2871.9	2864.4	2860.1	2855.5	2849.6
32.5°	3079.7	3070.6	3064.7	3054.2	3040.9	3028.8	3019.9	3009.4
35°	3284.4	3269.4	3263.5	3272.3	3270.9	3263.5	3253.0	3244.0
37.5°	3535.4	3532.4	3535.4	3551.8	3548.8	3556.3	3535.4	3533.9
40°	3852.2	3855.2	3876.0	3895.5	3906.0	3916.4	3904.5	3892.5
42.5°	4219.8	4218.4	4225.7	4252.7	4270.5	4282.5	4257.1	4254.2
45°	4608.2	4597.9	4603.8	4626.2	4644.1	4657.6	4629.1	4629.1
47.5°	5035.5	5017.8	4998.3	5023.7	5034.1	5043.1	5020.6	5013.3
50°	5512.3	5474.9	5433.0	5443.5	5443.5	5440.6	5412.2	5410.8
52.5°	6059.2	5990.4	5914.3	5885.9	5869.4	5851.5	5802.2	5778.3
55°	6688.3	6585.1	6465.6	6392.3	6353.5	6304.2	6222.0	6199.7
57.5°	7423.5	7262.1	7055.8	6966.1	6879.5	6798.8	6707.6	6682.3
60°	8294.6	8057.0	7783.5	7617.6	7523.6	7445.8	7351.6	7347.1
62.5°	9265.8	8890.7	8581.5	8432.0	8363.3	8294.6	8204.8	8216.8
65°	10253.6	9862.0	9572.2	9451.1	9386.8	9330.1	9240.4	9253.9
67.5°	11227.7	10867.6	10549.3	10425.4	10353.7	10281.9	10201.2	10214.6
70°	11927.1	11480.2	11121.6	10846.8	10674.9	10480.6	10355.1	10323.9
72.5°	11726.8	11038.1	10468.7	9923.2	9603.5	9343.5	9167.3	9090.9
75°	10149.0	9207.5	8475.4	7805.9	7429.4	7123.1	6900.4	6761.5
77.5°	7537.0	6479.0	5613.9	4842.9	4233.3	3823.7	3535.4	3348.6
80°	4125.6	3137.9	2293.6	1612.3	1185.0	984.7	869.6	814.4
82.5°	1285.0	829.3	611.1	527.5	490.1	469.2	434.8	379.5
85°	409.4	358.7	333.2	318.3	303.4	264.6	182.3	165.8
87.5°	158.5	162.9	161.3	152.4	155.3	112.1	89.7	79.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)