

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: P268810

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268810
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-09-LED-U-5WQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 32084.6 lumens
Efficiency: N/A
Efficacy: 110.6 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): 290
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

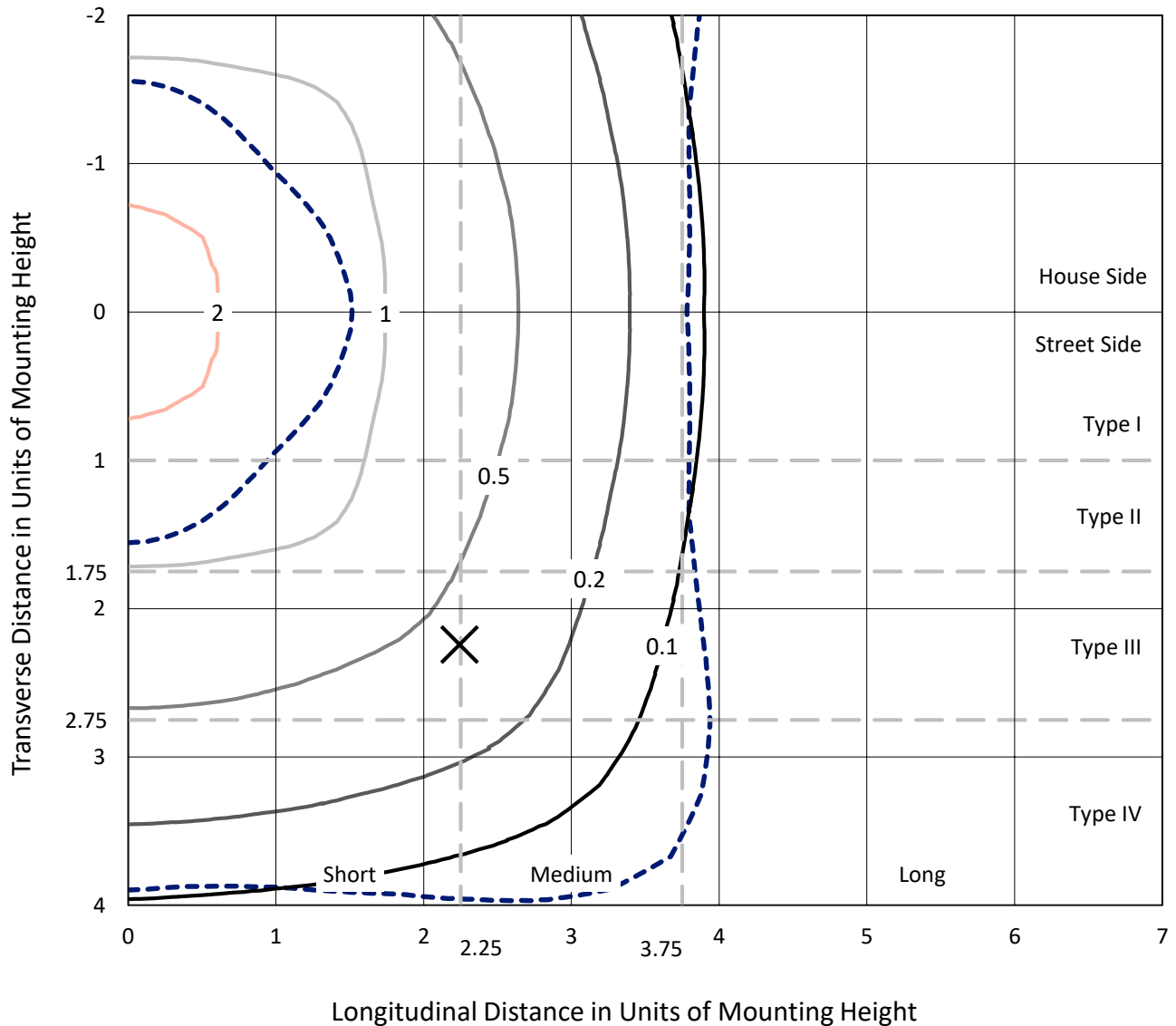


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

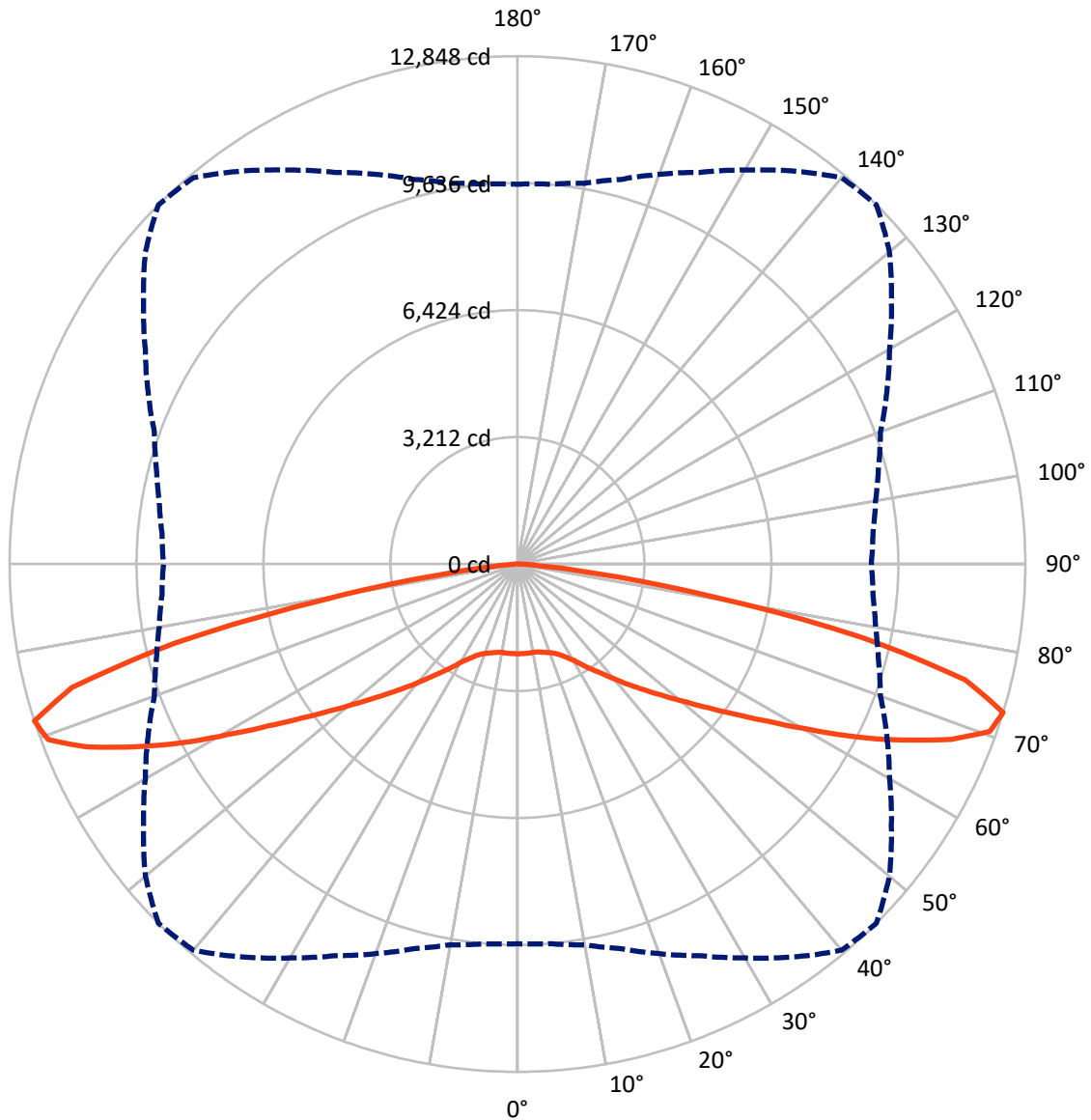


Based on 30 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Semi-Cutoff

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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	16042.3	0.0	16042.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16042.3	0.0	16042.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	32084.6	0.0	32084.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	0.7
10°-20°	658.9	2.1
20°-30°	1204.1	3.8
30°-40°	2076.1	6.5
40°-50°	3549.1	11.1
50°-60°	5752.7	17.9
60°-70°	9543.5	29.7
70°-80°	8405.5	26.2
80°-90°	677.7	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°	32084.6	100.0
0°-180°	32084.6	100.0



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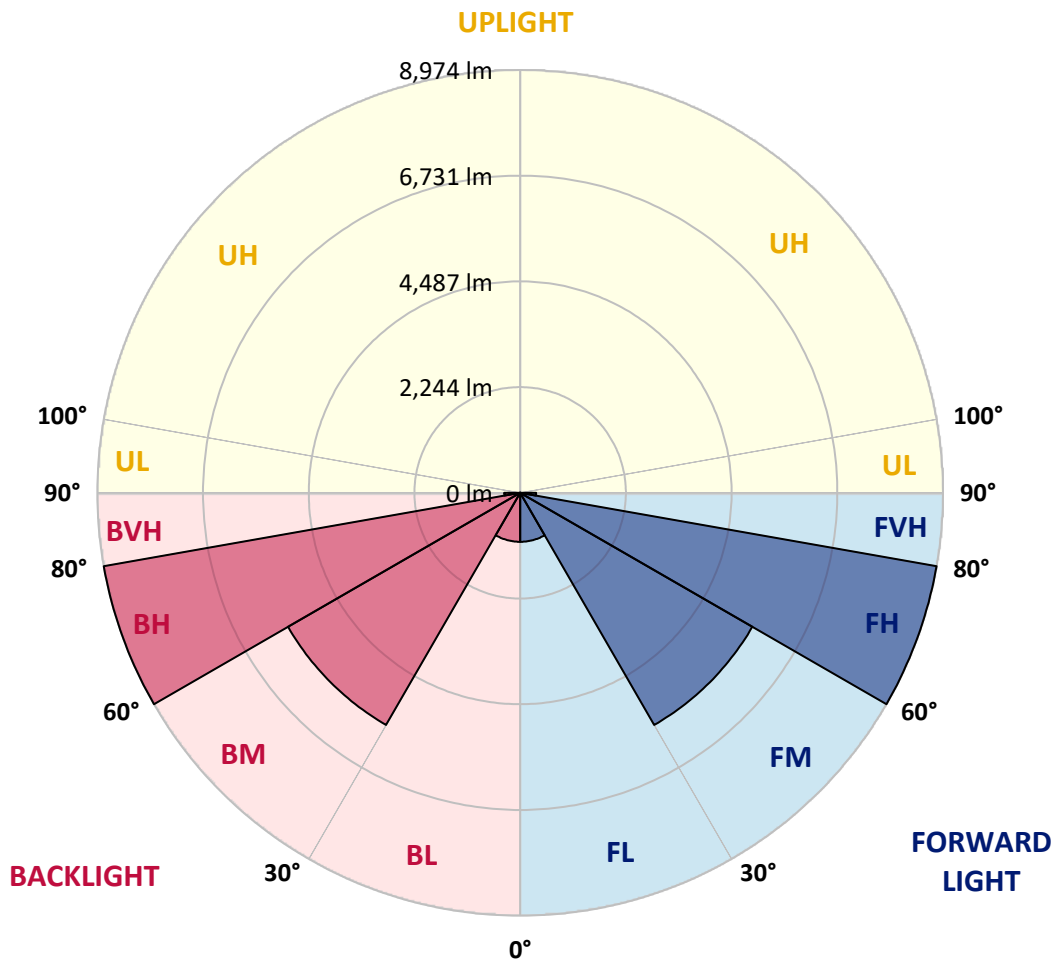
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1040.0	3.2			
FM	(30°-60°)	5688.9	17.7			
FH	(60°-80°)	8974.5	28.0			G4/12000
FVH	(80°-90°)	338.9	1.1			G3/500
BL	(0°-30°)	1040.0	3.2	B3/2500		
BM	(30°-60°)	5688.9	17.7	B4/8500		
BH	(60°-80°)	8974.5	28.0	B5		G4/12000
BVH	(80°-90°)	338.9	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°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2272.2	2273.6	2275.0	2273.6	2273.6	2272.2	2270.6	2272.2	2270.6	2267.7	2269.2
5°	2279.4	2282.5	2282.5	2279.4	2280.9	2279.4	2276.6	2278.0	2275.0	2270.6	2270.6
7.5°	2288.3	2289.8	2289.8	2286.8	2288.3	2285.4	2282.5	2280.9	2278.0	2272.2	2267.7
10°	2301.5	2303.0	2301.5	2298.6	2298.6	2294.1	2286.8	2283.9	2278.0	2269.2	2264.7
12.5°	2316.2	2317.6	2316.2	2313.2	2311.8	2304.4	2298.6	2294.1	2289.8	2282.5	2275.0
15°	2336.9	2339.7	2336.9	2330.9	2326.5	2320.6	2317.6	2319.2	2320.6	2314.8	2307.3
17.5°	2375.1	2376.6	2372.2	2358.9	2353.0	2347.1	2347.1	2350.1	2354.5	2351.6	2344.1
20°	2445.7	2441.4	2431.1	2414.9	2407.5	2397.1	2395.7	2397.1	2397.1	2395.7	2389.9
22.5°	2533.9	2531.1	2517.8	2497.3	2487.0	2481.1	2472.2	2464.9	2463.4	2459.0	2453.1
25°	2639.9	2638.5	2622.3	2604.6	2597.3	2590.0	2582.5	2572.2	2563.5	2553.2	2547.2
27.5°	2775.4	2769.5	2745.8	2737.0	2726.8	2722.5	2712.2	2700.3	2692.9	2679.7	2672.4
30°	2924.1	2924.1	2904.8	2902.0	2902.0	2891.6	2879.8	2859.2	2846.0	2832.7	2828.4
32.5°	3072.7	3074.1	3055.0	3060.9	3065.2	3072.7	3075.5	3068.3	3059.4	3057.9	3049.0
35°	3287.4	3281.6	3262.5	3266.9	3265.3	3263.9	3263.9	3280.2	3283.0	3286.0	3268.4
37.5°	3553.9	3553.9	3534.7	3534.7	3525.8	3517.0	3505.2	3515.5	3531.7	3536.2	3524.4
40°	3858.4	3868.7	3845.1	3843.7	3846.6	3818.8	3805.5	3821.7	3831.9	3849.5	3836.3
42.5°	4217.5	4210.1	4186.6	4183.6	4167.4	4158.7	4146.8	4160.1	4176.3	4188.1	4192.5
45°	4561.9	4555.9	4529.4	4529.4	4513.3	4505.9	4511.7	4533.8	4541.2	4557.5	4573.6
47.5°	4901.8	4894.4	4876.8	4884.2	4885.6	4898.8	4918.0	4938.5	4959.2	4981.2	4988.6
50°	5249.1	5250.6	5231.4	5249.1	5271.2	5307.9	5359.4	5393.2	5436.0	5463.9	5472.7
52.5°	5565.4	5571.3	5591.9	5633.1	5677.3	5749.4	5837.6	5920.1	5990.7	6037.8	6034.9
55°	5945.2	5954.0	6004.0	6074.6	6146.7	6255.5	6386.6	6532.2	6650.1	6717.6	6674.9
57.5°	6430.7	6449.8	6505.7	6601.5	6708.8	6850.1	7029.6	7249.0	7431.4	7522.6	7453.4
60°	7097.4	7109.0	7176.7	7282.7	7412.3	7587.4	7827.2	8121.5	8379.1	8499.8	8420.3
62.5°	7975.8	7997.9	8052.3	8159.8	8292.3	8490.9	8783.7	9151.7	9472.4	9640.3	9460.7
65°	9025.1	9095.7	9141.3	9250.2	9373.9	9584.2	9890.3	10284.8	10629.0	10739.4	10532.0
67.5°	10064.0	10125.9	10205.3	10330.4	10455.5	10692.3	10976.4	11359.0	11737.2	11837.2	11515.0
70°	10518.8	10554.0	10677.7	10848.3	11088.1	11367.8	11695.9	12125.6	12593.6	12676.1	12267.0
72.5°	9607.8	9643.1	9781.5	10071.3	10489.2	10933.7	11506.1	12137.4	12755.6	12848.2	12284.6
75°	7266.6	7209.2	7413.7	7797.7	8361.5	8981.0	9781.5	10686.4	11579.7	11695.9	11023.6
77.5°	3755.5	3748.1	3902.5	4379.3	5051.9	5756.8	6638.2	7660.9	8535.1	8888.2	8340.9
80°	1058.1	1069.8	1143.5	1380.3	1773.3	2282.5	2971.1	3929.0	4644.2	5009.2	4703.0
82.5°	414.9	447.4	475.4	519.5	571.0	646.1	862.4	1283.1	1721.7	2057.3	1685.0
85°	148.6	158.9	225.1	266.3	270.7	285.5	325.2	379.7	457.6	546.0	448.9
87.5°	56.0	61.9	72.1	119.1	117.7	107.4	131.0	136.8	103.0	94.2	116.2
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°	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2	2272.2
2.5°	2266.2	2267.7	2267.7	2269.2	2270.6	2270.6	2273.6	2273.6
5°	2267.7	2267.7	2264.7	2266.2	2264.7	2264.7	2266.2	2266.2
7.5°	2264.7	2263.3	2260.3	2258.9	2256.0	2256.0	2256.0	2256.0
10°	2260.3	2258.9	2256.0	2254.4	2252.9	2252.9	2252.9	2252.9
12.5°	2272.2	2267.7	2264.7	2263.3	2263.3	2263.3	2263.3	2263.3
15°	2303.0	2292.7	2285.4	2285.4	2286.8	2289.8	2289.8	2292.7
17.5°	2341.3	2329.5	2322.1	2316.2	2319.2	2323.6	2326.5	2329.5
20°	2386.8	2381.0	2370.6	2364.8	2364.8	2370.6	2373.6	2375.1
22.5°	2450.1	2445.7	2441.4	2434.0	2434.0	2436.9	2442.9	2442.9
25°	2544.3	2541.3	2538.4	2532.5	2531.1	2531.1	2533.9	2537.0
27.5°	2662.0	2663.6	2660.6	2659.2	2654.8	2653.2	2657.6	2656.2
30°	2819.5	2826.8	2834.2	2828.4	2820.9	2816.5	2812.1	2806.2
32.5°	3032.9	3024.1	3018.1	3007.9	2994.6	2982.8	2974.0	2963.7
35°	3234.4	3219.7	3213.9	3222.7	3221.2	3213.9	3203.5	3194.7
37.5°	3481.7	3478.7	3481.7	3497.9	3494.9	3502.3	3481.7	3480.3
40°	3793.7	3796.6	3817.3	3836.3	3846.6	3857.0	3845.1	3833.3
42.5°	4155.6	4154.2	4161.6	4188.1	4205.8	4217.5	4192.5	4189.5
45°	4538.2	4527.9	4533.8	4555.9	4573.6	4586.8	4558.9	4558.9
47.5°	4959.2	4941.4	4922.4	4947.3	4957.7	4966.5	4944.5	4937.1
50°	5428.5	5391.7	5350.7	5360.8	5360.8	5357.9	5330.1	5328.6
52.5°	5967.3	5899.4	5824.4	5796.5	5780.4	5762.6	5714.1	5690.6
55°	6586.7	6485.1	6367.5	6295.3	6257.1	6208.5	6127.6	6105.5
57.5°	7310.8	7151.8	6948.7	6860.4	6775.0	6695.5	6605.9	6580.9
60°	8168.6	7934.6	7665.3	7502.0	7409.3	7332.8	7240.1	7235.7
62.5°	9125.2	8755.8	8451.2	8304.0	8236.3	8168.6	8080.3	8092.1
65°	10097.8	9712.4	9426.9	9307.6	9244.4	9188.5	9100.1	9113.3
67.5°	11057.2	10702.6	10389.2	10267.1	10196.4	10125.9	10046.4	10059.6
70°	11746.0	11306.0	10952.9	10682.0	10512.9	10321.5	10197.9	10166.9
72.5°	11548.8	10870.4	10309.8	9772.7	9457.7	9201.7	9028.1	8953.0
75°	9994.8	9067.8	8346.7	7687.4	7316.6	7015.0	6795.7	6658.9
77.5°	7422.5	6380.8	5528.7	4769.3	4168.9	3765.8	3481.7	3297.8
80°	4062.9	3090.3	2258.9	1587.8	1167.0	969.8	856.4	801.9
82.5°	1265.5	816.6	601.9	519.5	482.7	462.1	428.2	373.8
85°	403.2	353.2	328.2	313.5	298.7	260.5	179.5	163.3
87.5°	155.9	160.3	158.9	150.0	153.0	110.3	88.4	78.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)