

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: P190885

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190885
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-07-LED-U-5WQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36652.3 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

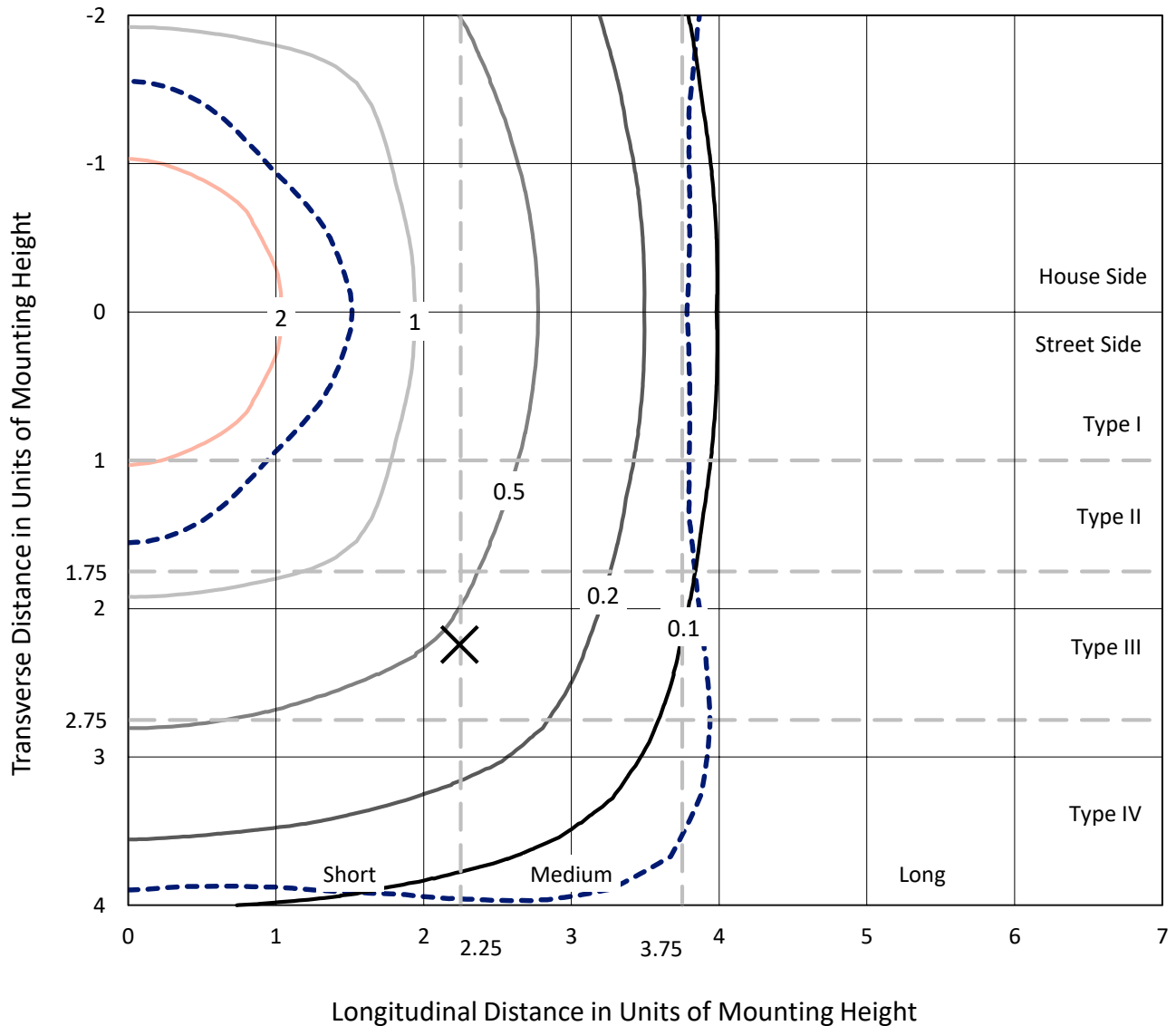
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

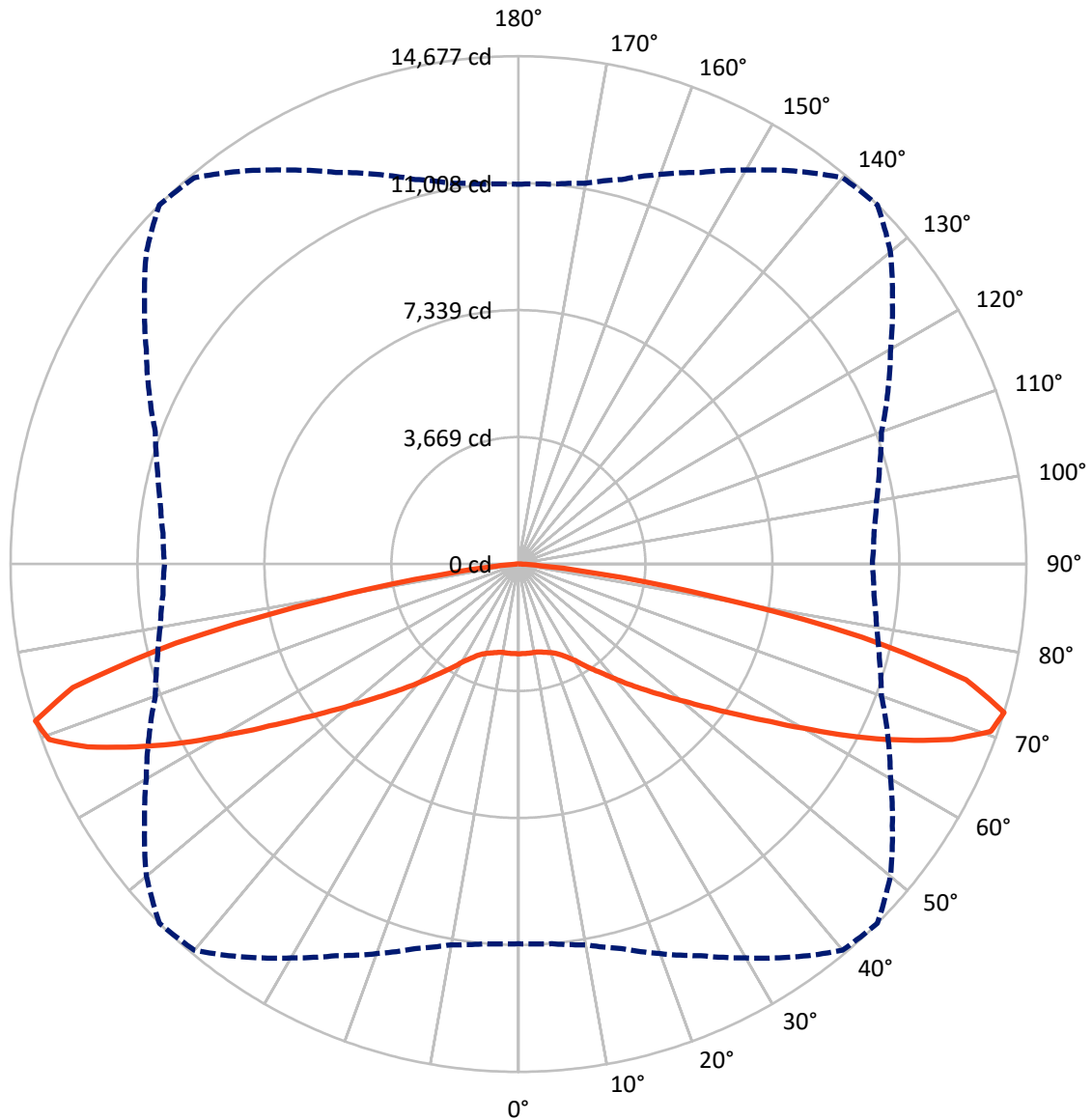
× Max cd
 - - - 1/2 Max cd



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	18326.2	0.0	18326.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18326.2	0.0	18326.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	36652.3	0.0	36652.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.8	0.7
10°-20°	752.7	2.1
20°-30°	1375.6	3.8
30°-40°	2371.7	6.5
40°-50°	4054.4	11.1
50°-60°	6571.6	17.9
60°-70°	10902.1	29.7
70°-80°	9602.2	26.2
80°-90°	774.2	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°	36652.3	100.0
0°-180°	36652.3	100.0



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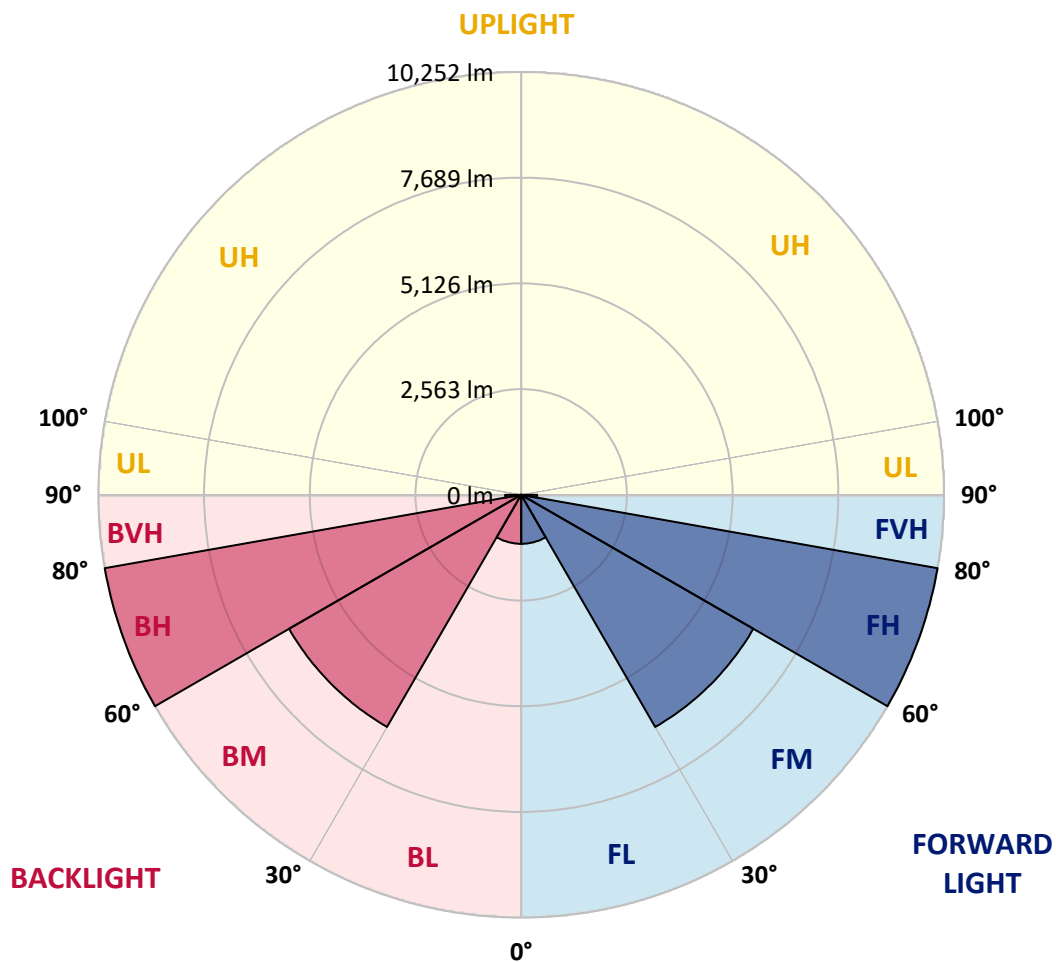
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1188.1	3.2			
FM	(30°-60°)	6498.9	17.7			
FH	(60°-80°)	10252.1	28.0			G4/12000
FVH	(80°-90°)	387.1	1.1			G3/500
BL	(0°-30°)	1188.1	3.2	B3/2500		
BM	(30°-60°)	6498.9	17.7	B4/8500		
BH	(60°-80°)	10252.1	28.0	B5		G4/12000
BVH	(80°-90°)	387.1	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°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2595.5	2597.3	2598.9	2597.3	2597.3	2595.5	2593.9	2595.5	2593.9	2590.5	2592.2
5°	2603.9	2607.3	2607.3	2603.9	2605.7	2603.9	2600.6	2602.3	2598.9	2593.9	2593.9
7.5°	2614.0	2615.7	2615.7	2612.4	2614.0	2610.7	2607.3	2605.7	2602.3	2595.5	2590.5
10°	2629.2	2630.8	2629.2	2625.8	2625.8	2620.8	2612.4	2609.0	2602.3	2592.2	2587.1
12.5°	2646.0	2647.7	2646.0	2642.6	2641.0	2632.6	2625.8	2620.8	2615.7	2607.3	2598.9
15°	2669.5	2672.9	2669.5	2662.8	2657.7	2651.1	2647.7	2649.3	2651.1	2644.3	2635.9
17.5°	2713.3	2714.9	2709.9	2694.8	2688.0	2681.3	2681.3	2684.6	2689.6	2686.4	2677.9
20°	2793.9	2788.9	2777.1	2758.6	2750.2	2738.4	2736.8	2738.4	2738.4	2736.8	2730.1
22.5°	2894.7	2891.4	2876.3	2852.8	2840.9	2834.3	2824.2	2815.8	2814.1	2809.0	2802.4
25°	3015.9	3014.1	2995.6	2975.5	2967.1	2958.7	2950.3	2938.5	2928.4	2916.6	2909.9
27.5°	3170.4	3163.8	3136.9	3126.8	3115.0	3110.0	3098.2	3084.7	3076.3	3061.2	3052.8
30°	3340.2	3340.2	3318.5	3315.1	3315.1	3303.3	3289.8	3266.3	3251.1	3236.0	3231.0
32.5°	3510.1	3511.7	3489.9	3496.7	3501.7	3510.1	3513.4	3505.0	3494.9	3493.3	3483.1
35°	3755.5	3748.8	3726.9	3731.9	3730.3	3728.6	3728.6	3747.1	3750.4	3753.8	3733.7
37.5°	4059.8	4059.8	4037.9	4037.9	4027.8	4017.7	4004.2	4016.0	4034.5	4039.6	4026.1
40°	4407.7	4419.5	4392.7	4390.9	4394.3	4362.4	4347.2	4365.7	4377.5	4397.7	4382.5
42.5°	4817.9	4809.5	4782.6	4779.2	4760.7	4750.7	4737.2	4752.3	4770.8	4784.3	4789.4
45°	5211.3	5204.6	5174.3	5174.3	5155.8	5147.4	5154.1	5179.3	5187.8	5206.2	5224.7
47.5°	5599.6	5591.2	5571.0	5579.5	5581.1	5596.3	5618.1	5641.7	5665.2	5690.4	5698.8
50°	5996.3	5998.0	5976.2	5996.3	6021.6	6063.5	6122.5	6161.0	6209.8	6241.7	6251.9
52.5°	6357.7	6364.5	6388.0	6435.1	6485.5	6567.9	6668.7	6762.9	6843.5	6897.3	6894.0
55°	6791.5	6801.6	6858.7	6939.4	7021.7	7146.1	7295.8	7462.2	7596.7	7674.1	7625.3
57.5°	7346.2	7368.1	7431.9	7541.2	7663.9	7825.4	8030.4	8280.9	8489.4	8593.6	8514.5
60°	8107.7	8121.2	8198.5	8319.6	8467.5	8667.6	8941.5	9277.8	9572.0	9709.7	9619.0
62.5°	9111.3	9136.6	9198.8	9321.4	9472.7	9699.7	10034.2	10454.5	10821.0	11012.6	10807.5
65°	10309.9	10390.6	10442.7	10567.2	10708.4	10948.7	11298.4	11748.9	12142.3	12268.4	12031.3
67.5°	11496.7	11567.3	11658.2	11801.1	11943.9	12214.5	12539.0	12976.1	13408.1	13522.4	13154.3
70°	12016.2	12056.6	12197.8	12392.7	12666.8	12986.2	13361.1	13851.9	14386.5	14480.7	14013.3
72.5°	10975.6	11016.0	11174.0	11505.1	11982.5	12490.2	13144.2	13865.4	14571.4	14677.3	14033.5
75°	8301.0	8235.5	8469.2	8908.0	9551.8	10259.5	11174.0	12207.9	13228.3	13361.1	12592.8
77.5°	4290.1	4281.7	4458.1	5002.8	5771.1	6576.3	7583.2	8751.5	9750.2	10153.6	9528.3
80°	1208.7	1222.1	1306.2	1576.9	2025.6	2607.3	3394.0	4488.4	5305.4	5722.3	5372.6
82.5°	474.0	511.1	543.0	593.4	652.2	738.0	985.1	1465.9	1966.8	2350.1	1924.8
85°	169.8	181.6	257.2	304.2	309.3	326.1	371.5	433.7	522.8	623.7	512.7
87.5°	63.8	70.6	82.3	136.2	134.5	122.8	149.7	156.3	117.6	107.6	132.8
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°	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5	2595.5
2.5°	2588.8	2590.5	2590.5	2592.2	2593.9	2593.9	2597.3	2597.3
5°	2590.5	2590.5	2587.1	2588.8	2587.1	2587.1	2588.8	2588.8
7.5°	2587.1	2585.5	2582.1	2580.4	2577.0	2577.0	2577.0	2577.0
10°	2582.1	2580.4	2577.0	2575.4	2573.7	2573.7	2573.7	2573.7
12.5°	2595.5	2590.5	2587.1	2585.5	2585.5	2585.5	2585.5	2585.5
15°	2630.8	2619.1	2610.7	2610.7	2612.4	2615.7	2615.7	2619.1
17.5°	2674.6	2661.1	2652.7	2646.0	2649.3	2654.4	2657.7	2661.1
20°	2726.7	2719.9	2708.2	2701.5	2701.5	2708.2	2711.5	2713.3
22.5°	2799.0	2793.9	2788.9	2780.5	2780.5	2783.9	2790.5	2790.5
25°	2906.5	2903.2	2899.9	2893.1	2891.4	2891.4	2894.7	2898.1
27.5°	3041.0	3042.7	3039.4	3037.7	3032.6	3030.9	3036.0	3034.3
30°	3220.9	3229.4	3237.7	3231.0	3222.6	3217.6	3212.5	3205.8
32.5°	3464.6	3454.6	3447.9	3436.1	3421.0	3407.6	3397.4	3385.7
35°	3695.0	3678.1	3671.5	3681.5	3679.9	3671.5	3659.7	3649.6
37.5°	3977.3	3974.1	3977.3	3995.9	3992.5	4001.0	3977.3	3975.7
40°	4333.7	4337.1	4360.6	4382.5	4394.3	4406.1	4392.7	4379.2
42.5°	4747.3	4745.7	4754.1	4784.3	4804.5	4817.9	4789.4	4786.0
45°	5184.4	5172.7	5179.3	5204.6	5224.7	5239.9	5207.9	5207.9
47.5°	5665.2	5644.9	5623.2	5651.7	5663.5	5673.6	5648.3	5639.9
50°	6201.4	6159.4	6112.3	6124.1	6124.1	6120.7	6088.8	6087.1
52.5°	6816.7	6739.4	6653.6	6621.7	6603.1	6583.0	6527.6	6500.6
55°	7524.4	7408.4	7273.9	7191.5	7147.9	7092.4	7000.0	6974.7
57.5°	8351.5	8169.9	7938.0	7837.1	7739.5	7648.8	7546.3	7517.7
60°	9331.6	9064.3	8756.7	8570.1	8464.1	8376.7	8270.8	8265.7
62.5°	10424.3	10002.3	9654.3	9486.2	9408.9	9331.6	9230.7	9244.1
65°	11535.4	11095.0	10768.9	10632.7	10560.4	10496.5	10395.6	10410.8
67.5°	12631.5	12226.3	11868.3	11728.7	11648.0	11567.3	11476.6	11491.7
70°	13418.3	12915.6	12512.1	12202.8	12009.4	11790.9	11649.8	11614.5
72.5°	13193.0	12418.0	11777.5	11163.9	10804.2	10511.6	10313.3	10227.6
75°	11417.8	10358.7	9534.9	8781.8	8358.2	8013.6	7763.2	7606.8
77.5°	8479.2	7289.0	6315.7	5448.3	4762.4	4301.8	3977.3	3767.2
80°	4641.4	3530.2	2580.4	1813.9	1333.1	1107.9	978.4	916.2
82.5°	1445.7	933.0	687.5	593.4	551.4	527.8	489.2	427.0
85°	460.6	403.5	374.9	358.0	341.3	297.6	205.1	186.6
87.5°	178.2	183.2	181.6	171.4	174.8	126.1	100.9	89.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)