

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: P191697

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191697
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 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: 56051 lumens
Efficiency: N/A
Efficacy: 111.9 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 - G5

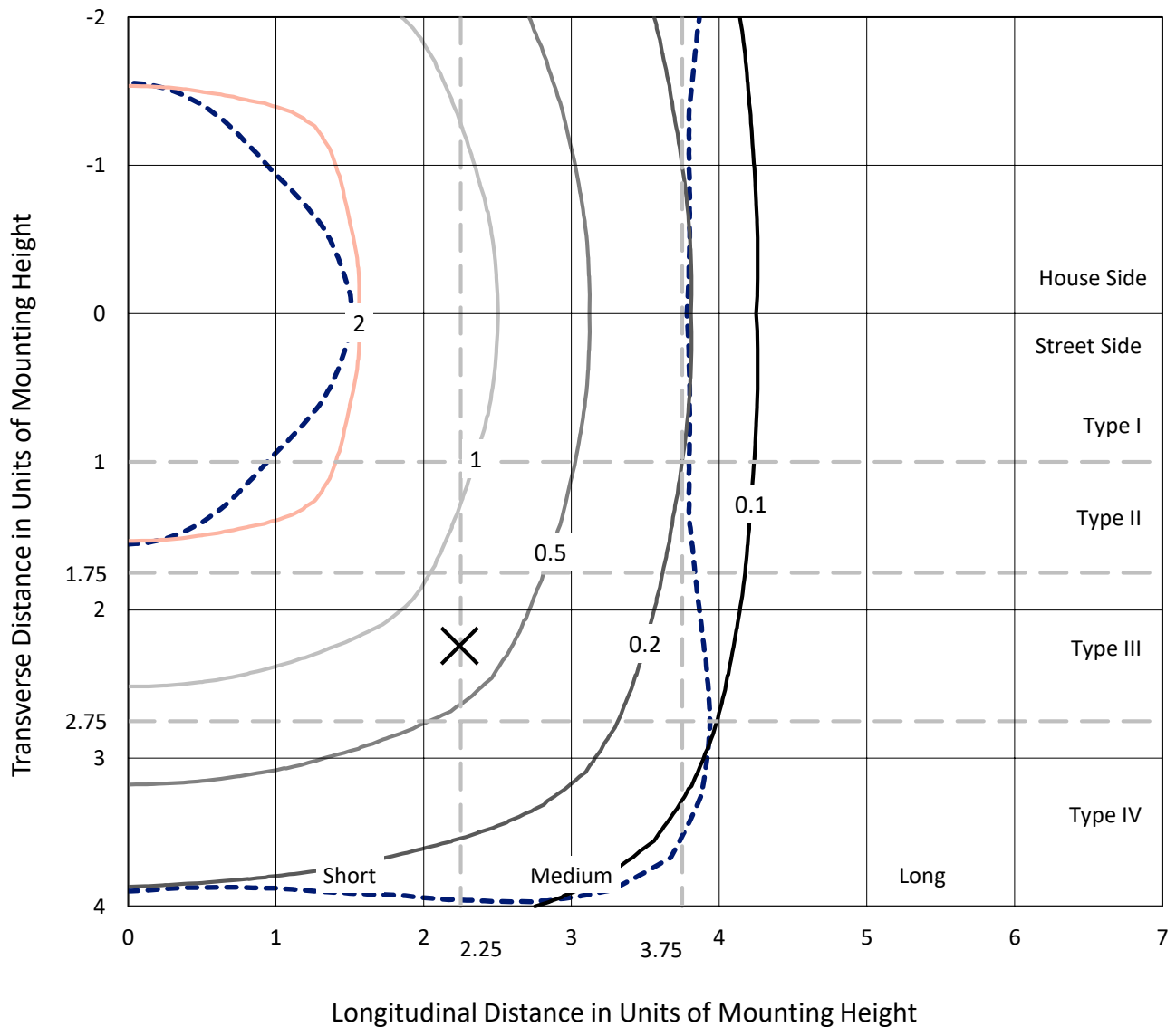
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

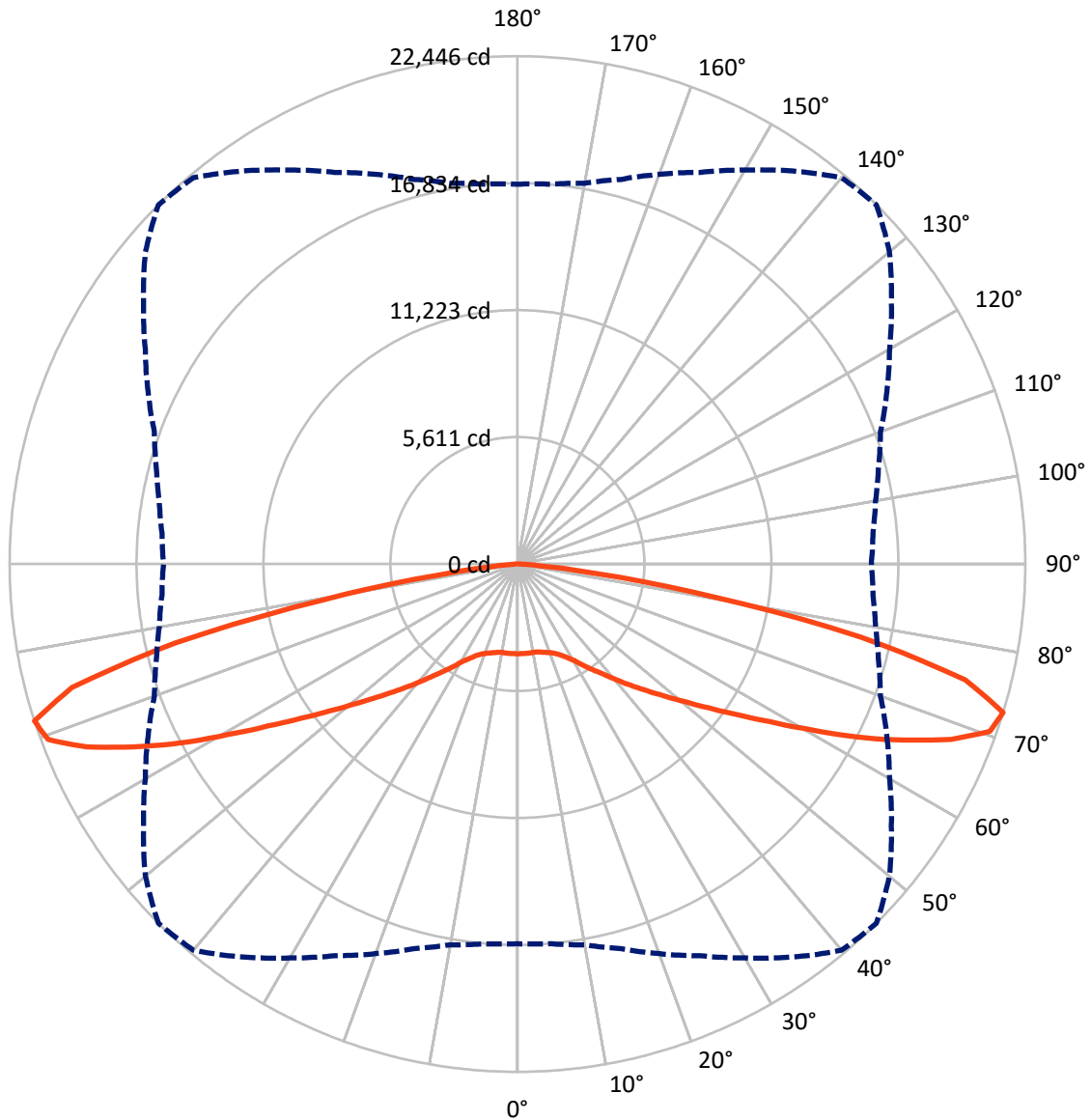
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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	28025.5	0.0	28025.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28025.5	0.0	28025.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	56051.0	0.0	56051.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.0	0.7
10°-20°	1151.1	2.1
20°-30°	2103.6	3.8
30°-40°	3626.9	6.5
40°-50°	6200.2	11.1
50°-60°	10049.7	17.9
60°-70°	16672.2	29.7
70°-80°	14684.3	26.2
80°-90°	1184.0	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°	56051.0	100.0
0°-180°	56051.0	100.0



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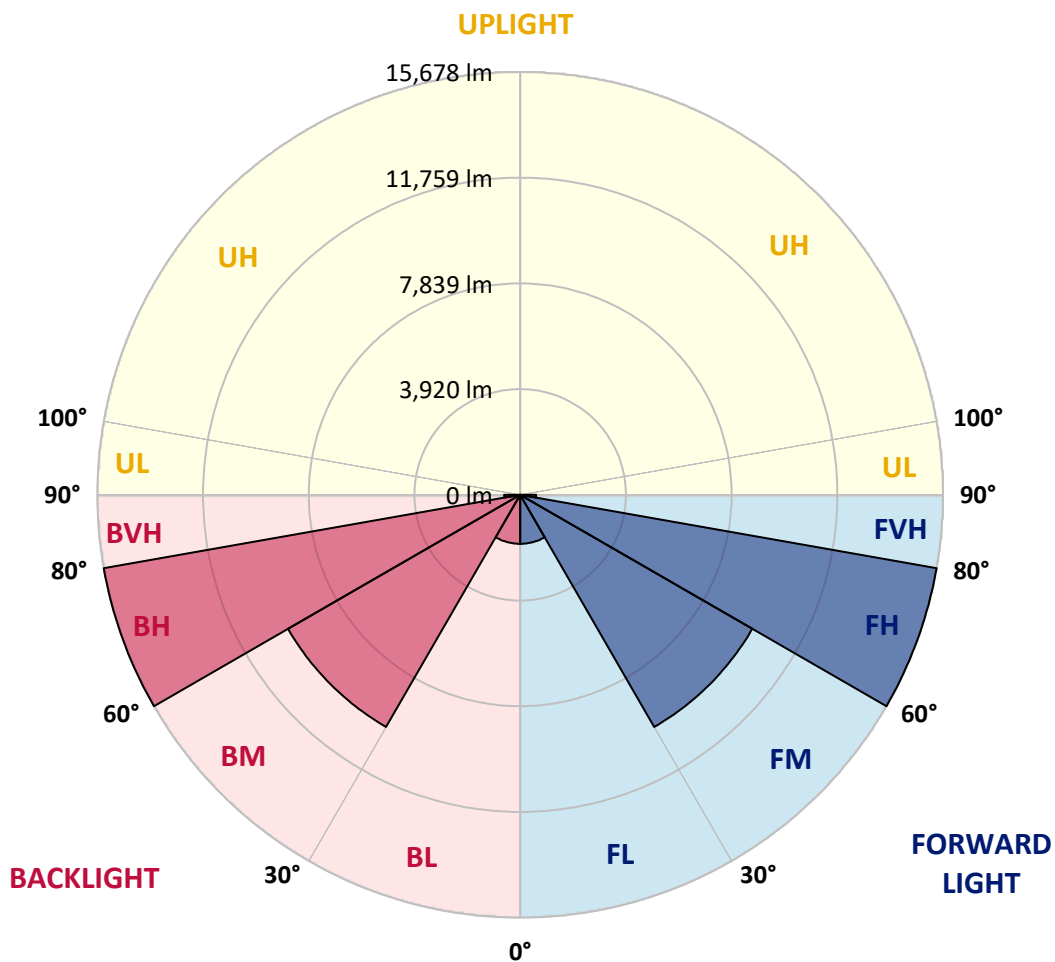
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1816.9	3.2			
FM	(30°-60°)	9938.4	17.7			
FH	(60°-80°)	15678.2	28.0			G5
FVH	(80°-90°)	592.0	1.1			G4/750
BL	(0°-30°)	1816.9	3.2	B3/2500		
BM	(30°-60°)	9938.4	17.7	B5		
BH	(60°-80°)	15678.2	28.0	B5		G5
BVH	(80°-90°)	592.0	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3
2.5°	3969.3	3971.9	3974.4	3971.9	3971.9	3969.3	3966.7	3969.3	3966.7	3961.6	3964.1
5°	3982.1	3987.3	3987.3	3982.1	3984.7	3982.1	3977.0	3979.6	3974.4	3966.7	3966.7
7.5°	3997.6	4000.1	4000.1	3995.0	3997.6	3992.4	3987.3	3984.7	3979.6	3969.3	3961.6
10°	4020.7	4023.3	4020.7	4015.6	4015.6	4007.8	3995.0	3989.8	3979.6	3964.1	3956.4
12.5°	4046.4	4049.0	4046.4	4041.3	4038.7	4025.8	4015.6	4007.8	4000.1	3987.3	3974.4
15°	4082.4	4087.5	4082.4	4072.1	4064.4	4054.1	4049.0	4051.5	4054.1	4043.8	4031.0
17.5°	4149.2	4151.8	4144.1	4121.0	4110.7	4100.4	4100.4	4105.5	4113.2	4108.1	4095.2
20°	4272.6	4264.9	4246.9	4218.6	4205.8	4187.8	4185.2	4187.8	4187.8	4185.2	4174.9
22.5°	4426.9	4421.7	4398.6	4362.6	4344.6	4334.3	4318.9	4306.1	4303.5	4295.8	4285.5
25°	4612.0	4609.4	4581.1	4550.3	4537.4	4524.6	4511.7	4493.7	4478.3	4460.3	4450.0
27.5°	4848.5	4838.2	4797.1	4781.6	4763.7	4755.9	4737.9	4717.4	4704.5	4681.4	4668.5
30°	5108.1	5108.1	5074.7	5069.6	5069.6	5051.6	5031.0	4995.0	4971.9	4948.7	4941.0
32.5°	5367.8	5370.4	5336.9	5347.2	5354.9	5367.8	5372.9	5360.1	5344.6	5342.1	5326.7
35°	5743.1	5732.8	5699.4	5707.1	5704.6	5702.0	5702.0	5730.3	5735.4	5740.5	5709.7
37.5°	6208.4	6208.4	6175.0	6175.0	6159.6	6144.2	6123.6	6141.6	6169.9	6177.6	6157.0
40°	6740.6	6758.6	6717.4	6714.9	6720.0	6671.2	6648.0	6676.3	6694.3	6725.2	6702.0
42.5°	7367.9	7355.0	7313.9	7308.7	7280.4	7265.0	7244.5	7267.6	7295.9	7316.4	7324.1
45°	7969.4	7959.1	7912.9	7912.9	7884.6	7871.7	7882.0	7920.6	7933.4	7961.7	7990.0
47.5°	8563.3	8550.4	8519.6	8532.4	8535.0	8558.1	8591.5	8627.5	8663.5	8702.1	8714.9
50°	9170.0	9172.5	9139.1	9170.0	9208.5	9272.8	9362.8	9421.9	9496.5	9545.3	9560.7
52.5°	9722.7	9733.0	9769.0	9840.9	9918.1	10044.0	10198.3	10342.2	10465.6	10547.9	10542.8
55°	10385.9	10401.4	10488.8	10612.2	10738.1	10928.4	11157.2	11411.7	11617.3	11735.6	11661.0
57.5°	11234.3	11267.7	11365.4	11532.5	11720.2	11967.0	12280.6	12663.7	12982.4	13141.8	13021.0
60°	12398.9	12419.4	12537.7	12722.8	12949.0	13254.9	13674.0	14188.1	14638.0	14848.8	14710.0
62.5°	13933.6	13972.2	14067.3	14255.0	14486.3	14833.4	15345.0	15987.7	16548.1	16841.2	16527.5
65°	15766.6	15890.0	15969.7	16159.9	16375.9	16743.5	17278.2	17967.2	18568.7	18761.5	18399.1
67.5°	17581.6	17689.5	17828.3	18046.9	18265.4	18679.3	19175.4	19843.8	20504.5	20679.3	20116.3
70°	18375.9	18437.6	18653.6	18951.8	19370.8	19859.3	20432.5	21183.2	22000.7	22144.7	21430.0
72.5°	16784.6	16846.3	17088.0	17594.4	18324.5	19100.9	20100.9	21203.8	22283.5	22445.5	21460.9
75°	12694.5	12594.2	12951.6	13622.6	14607.2	15689.5	17088.0	18669.0	20229.5	20432.5	19257.7
77.5°	6560.6	6547.8	6817.7	7650.6	8825.5	10056.9	11596.8	13383.5	14910.5	15527.5	14571.2
80°	1848.4	1869.0	1997.5	2411.4	3097.8	3987.3	5190.4	6864.0	8113.4	8750.9	8216.2
82.5°	725.0	781.5	830.4	907.5	997.5	1128.6	1506.5	2241.7	3007.8	3593.9	2943.5
85°	259.6	277.6	393.3	465.3	473.0	498.7	568.1	663.3	799.5	953.8	784.1
87.5°	97.7	108.0	126.0	208.2	205.7	187.7	228.8	239.1	180.0	164.5	203.1
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°	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3	3969.3
2.5°	3959.0	3961.6	3961.6	3964.1	3966.7	3966.7	3971.9	3971.9
5°	3961.6	3961.6	3956.4	3959.0	3956.4	3956.4	3959.0	3959.0
7.5°	3956.4	3953.9	3948.7	3946.1	3941.0	3941.0	3941.0	3941.0
10°	3948.7	3946.1	3941.0	3938.4	3935.9	3935.9	3935.9	3935.9
12.5°	3969.3	3961.6	3956.4	3953.9	3953.9	3953.9	3953.9	3953.9
15°	4023.3	4005.3	3992.4	3992.4	3995.0	4000.1	4000.1	4005.3
17.5°	4090.1	4069.5	4056.7	4046.4	4051.5	4059.3	4064.4	4069.5
20°	4169.8	4159.5	4141.5	4131.2	4131.2	4141.5	4146.7	4149.2
22.5°	4280.3	4272.6	4264.9	4252.1	4252.1	4257.2	4267.5	4267.5
25°	4444.9	4439.7	4434.6	4424.3	4421.7	4421.7	4426.9	4432.0
27.5°	4650.5	4653.1	4648.0	4645.4	4637.7	4635.1	4642.8	4640.3
30°	4925.6	4938.5	4951.3	4941.0	4928.2	4920.5	4912.8	4902.5
32.5°	5298.4	5282.9	5272.7	5254.7	5231.5	5211.0	5195.5	5177.5
35°	5650.6	5624.9	5614.6	5630.0	5627.4	5614.6	5596.6	5581.2
37.5°	6082.5	6077.3	6082.5	6110.7	6105.6	6118.5	6082.5	6079.9
40°	6627.5	6632.6	6668.6	6702.0	6720.0	6738.0	6717.4	6696.9
42.5°	7259.9	7257.3	7270.2	7316.4	7347.3	7367.9	7324.1	7319.0
45°	7928.3	7910.3	7920.6	7959.1	7990.0	8013.1	7964.3	7964.3
47.5°	8663.5	8632.7	8599.3	8643.0	8661.0	8676.4	8637.8	8625.0
50°	9483.6	9419.3	9347.3	9365.3	9365.3	9360.2	9311.4	9308.8
52.5°	10424.5	10306.2	10175.1	10126.3	10098.0	10067.2	9982.3	9941.2
55°	11506.8	11329.4	11123.8	10997.8	10930.9	10846.1	10704.7	10666.2
57.5°	12771.6	12494.0	12139.2	11985.0	11835.9	11697.0	11540.2	11496.5
60°	14270.4	13861.6	13391.2	13105.8	12943.9	12810.2	12648.2	12640.5
62.5°	15941.4	15296.1	14764.0	14506.9	14388.6	14270.4	14116.1	14136.7
65°	17640.7	16967.1	16468.4	16260.2	16149.6	16051.9	15897.7	15920.8
67.5°	19316.8	18697.3	18149.7	17936.3	17812.9	17689.5	17550.7	17573.8
70°	20520.0	19751.3	19134.3	18661.3	18365.6	18031.4	17815.5	17761.5
72.5°	20175.5	18990.3	18010.9	17072.5	16522.4	16075.1	15771.7	15640.6
75°	17460.7	15841.1	14581.5	13429.7	12781.9	12254.9	11871.9	11632.8
77.5°	12967.0	11146.9	9658.4	8331.9	7283.0	6578.6	6082.5	5761.1
80°	7097.9	5398.6	3946.1	2773.9	2038.6	1694.1	1496.2	1401.1
82.5°	2210.9	1426.8	1051.4	907.5	843.2	807.2	748.1	653.0
85°	704.4	617.0	573.3	547.6	521.9	455.0	313.6	285.4
87.5°	272.5	280.2	277.6	262.2	267.4	192.8	154.2	136.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)