

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: P268743

Luminaire Tested: **GAN-AF-08-LED-U-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-RW-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34230.1 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G3

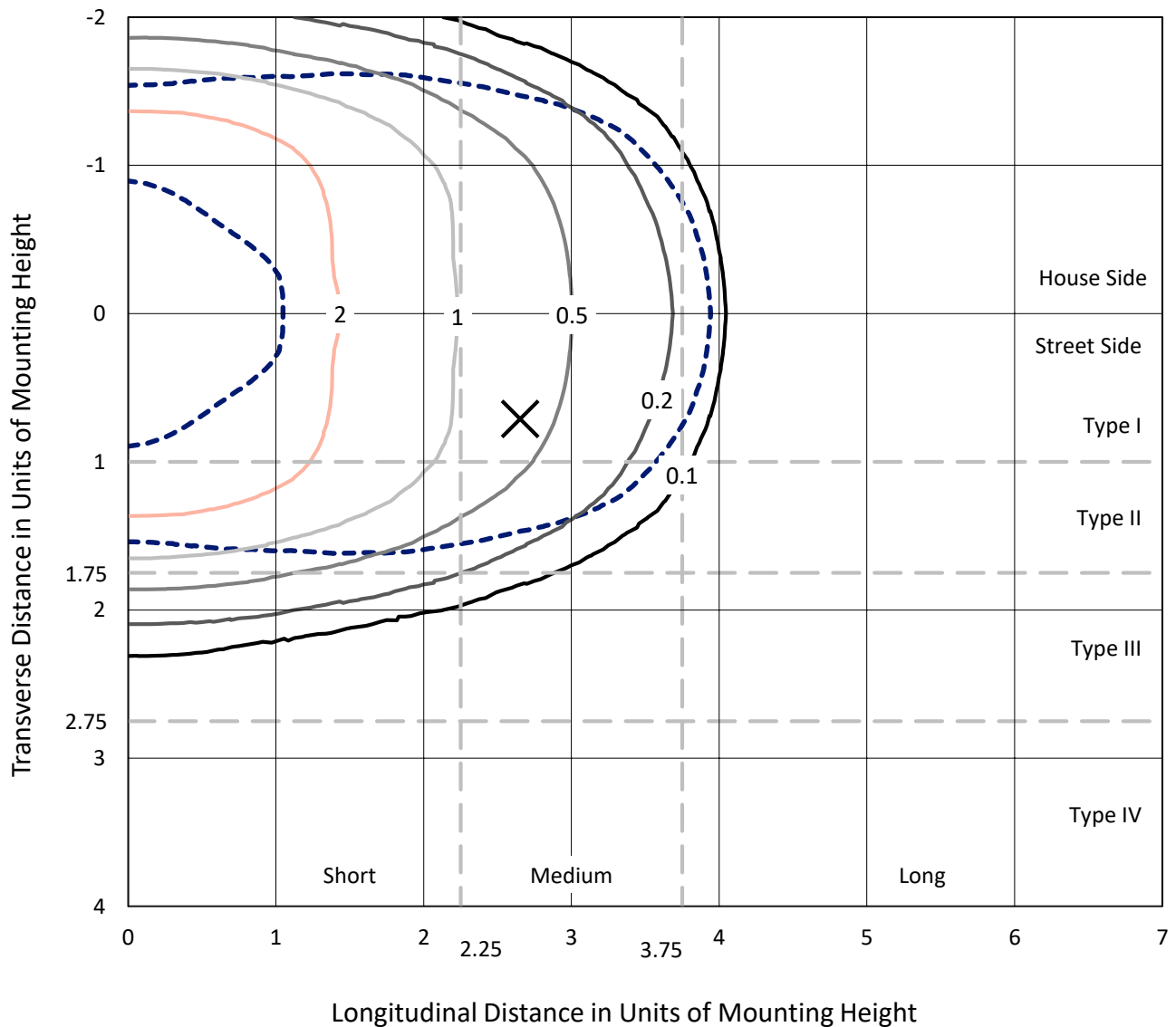
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

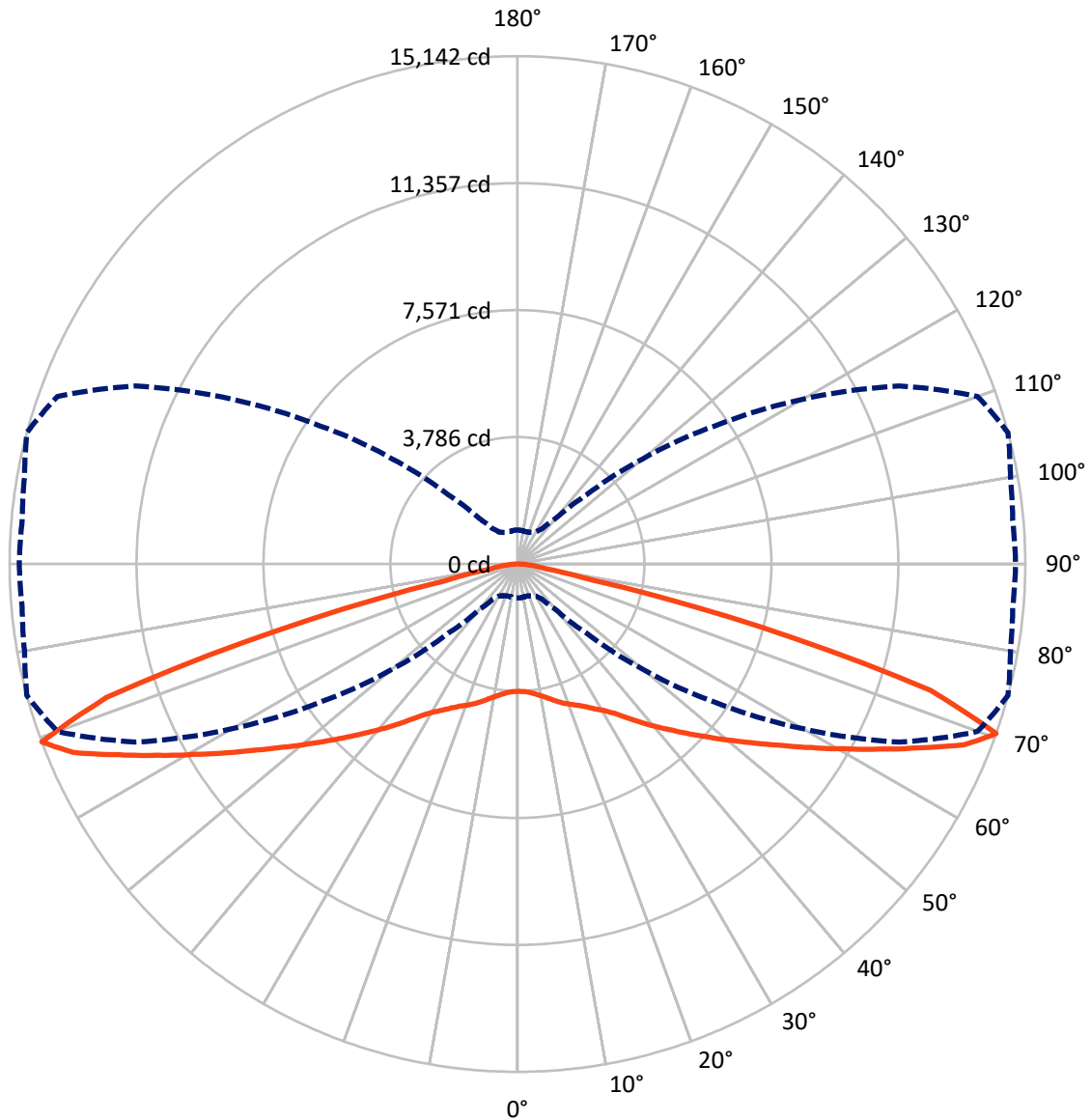
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17115.1	0.0	17115.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17115.1	0.0	17115.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	34230.1	0.0	34230.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	1.1
10°-20°	1131.5	3.3
20°-30°	2129.6	6.2
30°-40°	3771.1	11.0
40°-50°	6306.6	18.4
50°-60°	8788.2	25.7
60°-70°	8149.7	23.8
70°-80°	3247.9	9.5
80°-90°	341.4	1.0
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°	34230.1	100.0
0°-180°	34230.1	100.0



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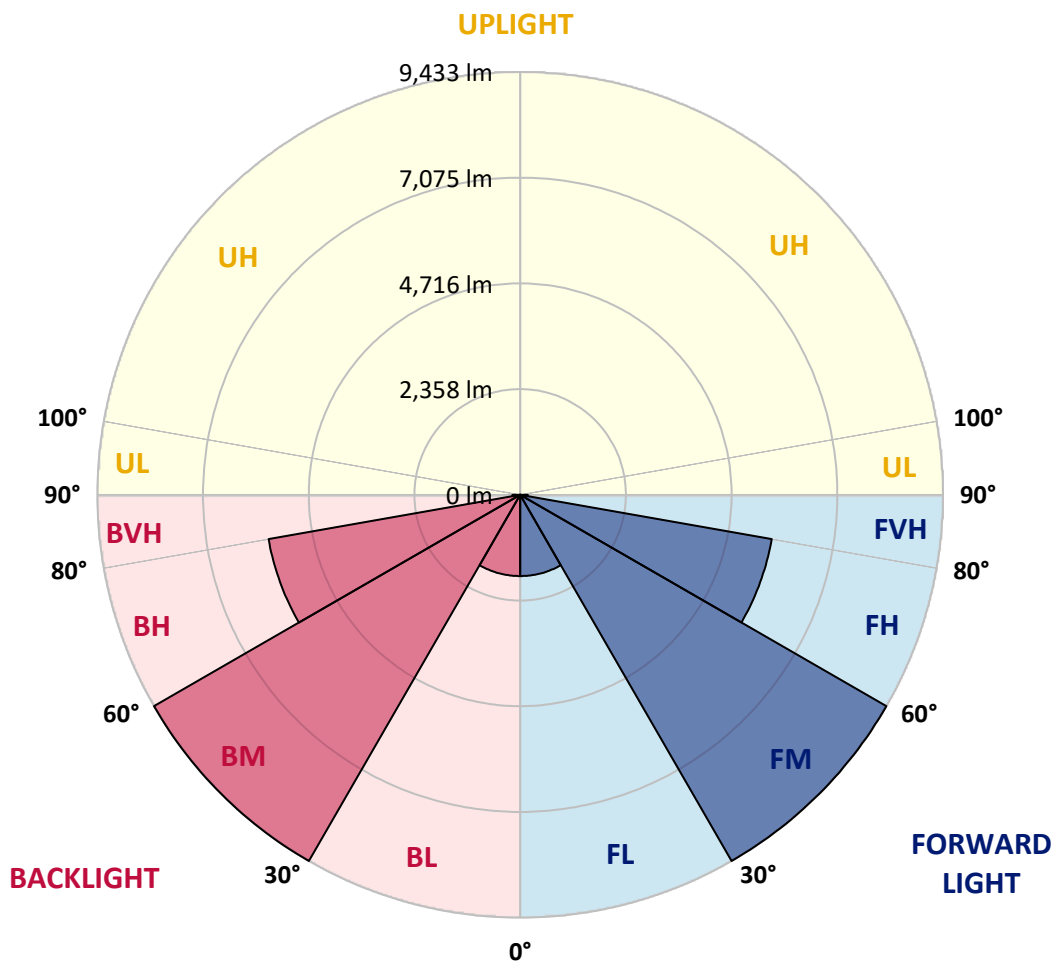
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1812.6	5.3			
FM	(30°-60°)	9433.0	27.6			
FH	(60°-80°)	5698.8	16.6			G3/7500
FVH	(80°-90°)	170.7	0.5			G2/225
BL	(0°-30°)	1812.6	5.3	B3/2500		
BM	(30°-60°)	9433.0	27.6	B5		
BH	(60°-80°)	5698.8	16.6	B5		G3/7500
BVH	(80°-90°)	170.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0
2.5°	3790.5	3787.3	3790.5	3788.8	3792.0	3792.0	3795.2	3801.7	3801.7	3806.7	3805.0
5°	3753.3	3751.6	3756.5	3761.4	3766.1	3775.8	3785.5	3800.2	3811.5	3819.6	3827.7
7.5°	3680.4	3680.4	3687.0	3698.2	3709.6	3730.7	3753.3	3782.4	3811.5	3835.8	3856.8
10°	3620.6	3623.9	3631.8	3651.3	3670.7	3703.2	3733.8	3775.8	3816.3	3856.8	3889.1
12.5°	3585.0	3589.8	3604.4	3633.6	3665.9	3709.6	3756.5	3809.8	3855.2	3903.7	3936.1
15°	3596.4	3599.6	3620.6	3656.2	3698.2	3753.3	3816.3	3879.4	3932.8	3984.6	4028.3
17.5°	3659.4	3664.2	3688.5	3729.0	3772.6	3837.4	3905.3	3976.4	4042.8	4101.0	4154.4
20°	3772.6	3777.6	3808.3	3851.9	3903.7	3970.0	4038.1	4112.4	4186.8	4248.3	4308.1
22.5°	3932.8	3941.0	3970.0	4013.6	4071.9	4143.2	4224.0	4303.3	4374.4	4431.1	4484.5
25°	4143.2	4160.9	4188.3	4236.9	4298.4	4363.2	4450.6	4531.4	4599.3	4652.7	4691.6
27.5°	4440.9	4465.0	4486.0	4532.9	4592.9	4654.4	4741.8	4812.8	4877.5	4929.4	4958.5
30°	4835.5	4859.8	4880.9	4926.1	4981.1	5039.4	5121.9	5184.9	5225.4	5265.9	5264.2
32.5°	5314.5	5340.2	5348.4	5396.8	5453.5	5516.6	5591.1	5626.7	5659.1	5663.9	5634.7
35°	5849.9	5862.8	5895.1	5959.9	6024.7	6076.3	6147.6	6165.3	6165.3	6141.1	6076.3
37.5°	6437.2	6445.2	6490.6	6563.3	6629.6	6683.0	6731.5	6767.1	6749.3	6697.7	6589.2
40°	7081.0	7095.5	7160.3	7225.0	7299.4	7349.6	7401.3	7407.9	7389.9	7314.0	7166.8
42.5°	7695.8	7708.7	7773.5	7875.4	7972.4	8041.9	8090.6	8100.1	8043.6	7974.1	7791.2
45°	8224.8	8258.7	8342.9	8462.7	8603.3	8702.1	8768.4	8795.8	8745.7	8655.1	8443.2
47.5°	8643.9	8677.7	8797.6	8939.8	9114.6	9274.7	9384.8	9443.0	9430.0	9362.0	9130.7
50°	8951.2	8983.5	9112.9	9287.7	9491.5	9690.5	9878.1	10017.3	10065.8	10035.1	9823.1
52.5°	8986.7	9040.2	9192.1	9426.8	9692.2	9963.9	10230.8	10467.1	10627.2	10651.5	10494.4
55°	8490.2	8543.5	8753.9	9101.5	9496.3	9939.7	10366.7	10764.7	11080.1	11241.8	11159.5
57.5°	7318.9	7414.3	7636.0	8043.6	8624.4	9287.7	9968.8	10675.6	11317.9	11746.6	11829.2
60°	5608.8	5722.1	5945.3	6378.9	7026.1	7817.1	8726.2	9771.4	10905.5	11869.7	12445.6
62.5°	3597.9	3704.7	3939.2	4316.3	4843.7	5701.1	6676.6	7917.4	9441.4	10963.6	12335.5
65°	1849.2	1907.3	2030.3	2258.3	2669.4	3310.0	4185.3	5422.8	7165.2	9043.3	11026.8
67.5°	1171.3	1182.6	1210.0	1242.4	1347.5	1569.2	1976.9	2748.6	4182.0	6141.1	8462.7
70°	1012.7	1012.7	999.8	995.0	1007.9	1038.6	1101.7	1281.3	1765.0	2915.2	4880.9
72.5°	927.1	917.3	894.6	876.8	873.6	873.6	886.5	914.0	991.6	1187.5	1910.5
75°	854.2	826.7	796.0	774.9	766.9	758.8	757.1	761.9	778.1	809.0	912.4
77.5°	765.1	729.7	694.0	673.0	663.3	652.0	642.3	630.9	622.9	632.5	677.9
80°	658.5	618.0	590.5	577.5	567.9	551.6	530.5	511.2	493.3	490.1	517.8
82.5°	530.5	483.6	485.4	490.1	472.4	449.7	427.1	406.0	375.3	359.1	375.3
85°	428.8	404.4	393.1	423.9	397.9	364.1	328.4	291.2	242.6	203.8	221.6
87.5°	166.6	166.6	249.1	383.3	344.6	281.4	241.0	205.4	127.7	98.6	100.3
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°	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0	3797.0
2.5°	3803.5	3806.7	3805.0	3803.5	3803.5	3801.7	3803.5	3803.5
5°	3832.4	3840.7	3840.7	3843.8	3843.8	3845.5	3847.1	3845.5
7.5°	3876.1	3890.7	3900.5	3911.8	3913.3	3915.1	3918.2	3915.1
10°	3919.8	3948.9	3970.0	3991.1	4000.7	4003.9	4007.2	4007.2
12.5°	3974.9	4015.3	4052.6	4089.8	4107.5	4117.2	4117.2	4123.7
15°	4065.5	4106.0	4149.6	4199.8	4230.5	4246.6	4251.5	4251.5
17.5°	4193.3	4229.0	4266.1	4314.6	4353.5	4374.4	4379.2	4377.7
20°	4342.0	4376.2	4397.2	4427.8	4461.8	4486.0	4492.6	4492.6
22.5°	4511.9	4531.4	4534.6	4544.3	4571.8	4604.3	4618.7	4622.0
25°	4699.7	4704.6	4691.6	4691.6	4709.4	4740.0	4754.6	4756.3
27.5°	4942.4	4918.0	4885.7	4874.4	4885.7	4921.3	4939.2	4945.6
30°	5244.8	5186.6	5112.2	5071.7	5065.3	5112.2	5144.6	5149.4
32.5°	5591.1	5506.9	5408.2	5325.7	5304.8	5333.7	5372.7	5371.1
35°	6001.9	5901.7	5781.9	5676.7	5628.2	5657.3	5712.3	5718.8
37.5°	6475.9	6344.9	6207.4	6074.8	5998.7	6006.7	6065.0	6084.5
40°	7005.0	6835.2	6662.0	6484.1	6375.7	6354.6	6425.8	6437.2
42.5°	7571.2	7352.7	7134.3	6914.3	6775.2	6742.9	6825.4	6820.6
45°	8174.7	7896.5	7640.8	7398.1	7233.2	7184.6	7252.5	7252.5
47.5°	8823.3	8480.4	8176.3	7901.2	7721.7	7652.1	7716.8	7721.7
50°	9511.0	9146.9	8789.3	8483.7	8268.4	8179.4	8263.6	8276.5
52.5°	10195.3	9840.9	9480.2	9130.7	8870.3	8761.9	8858.9	8900.9
55°	10889.3	10541.4	10196.8	9855.5	9546.5	9418.6	9522.3	9575.7
57.5°	11622.1	11300.1	10971.8	10627.2	10329.5	10130.5	10240.5	10311.7
60°	12481.1	12206.1	11864.8	11484.7	11183.7	10981.5	11044.5	11107.6
62.5°	13160.6	13267.3	12977.9	12537.7	12151.2	11892.3	11953.7	12020.1
65°	12832.2	13927.4	14184.6	13739.8	13204.2	12801.4	12775.5	12809.6
67.5°	10725.9	12853.2	14404.7	14828.5	14380.3	13820.7	13717.1	13767.2
70°	7174.9	9824.8	12562.1	14600.4	15142.4	14925.6	14823.7	14854.5
72.5°	3445.9	5722.1	8522.4	11232.1	12882.4	13639.4	13882.1	14000.3
75°	1260.2	2271.4	4107.5	6189.6	7472.6	8650.3	9418.6	9732.5
77.5°	760.3	917.3	1312.1	1975.4	2237.4	2504.4	2400.8	2452.6
80°	563.0	635.8	719.9	809.0	837.9	837.9	805.7	779.8
82.5°	394.7	441.6	482.1	530.5	543.6	519.3	427.1	339.6
85°	254.0	275.1	292.8	323.6	315.5	300.9	202.2	179.7
87.5°	116.5	132.7	139.1	153.7	147.2	140.8	100.3	84.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)