

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: P268902

Luminaire Tested: **GAN-AF-10-LED-U-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268902
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-10-LED-U-RW-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34474.5 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G3

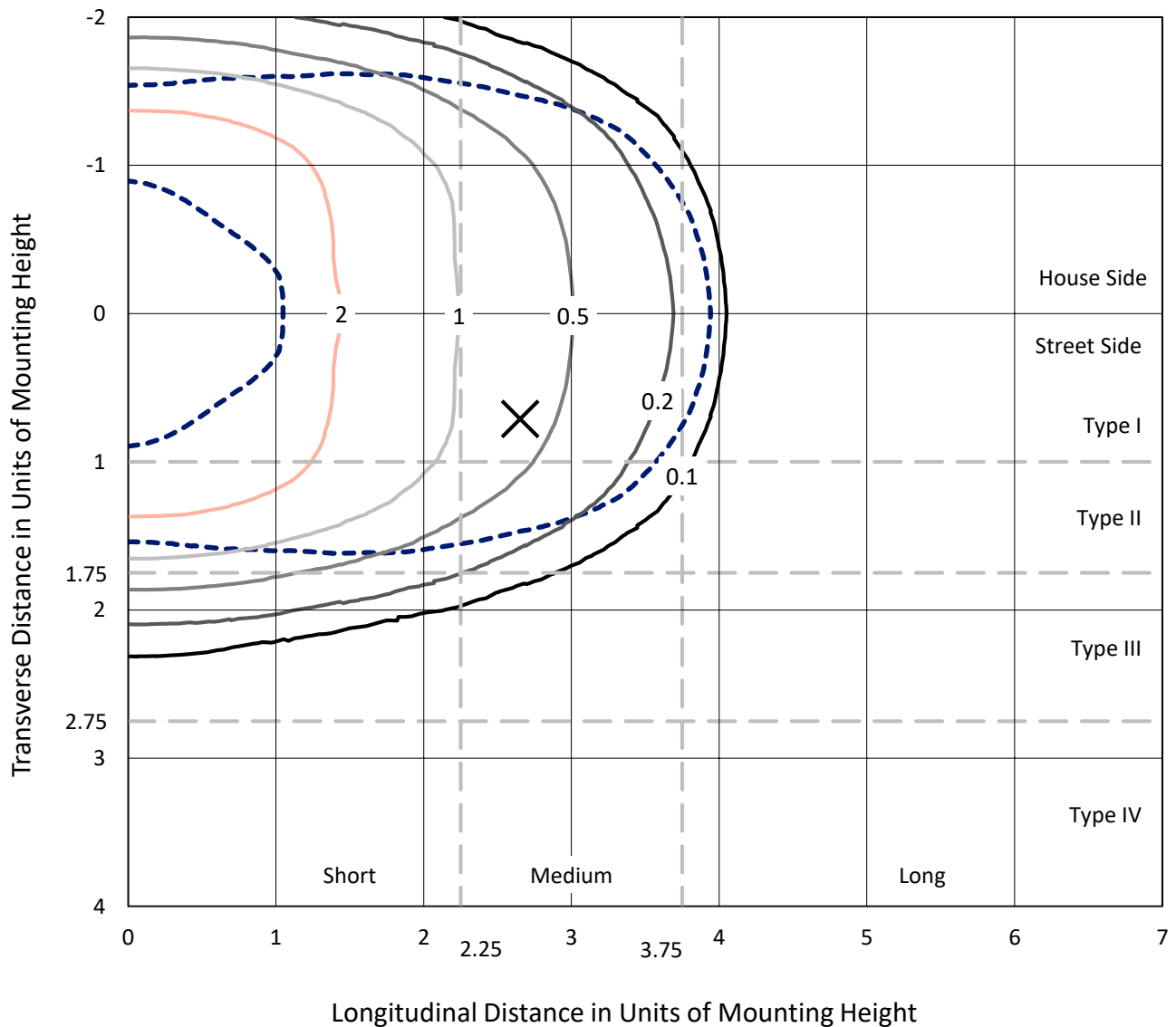
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

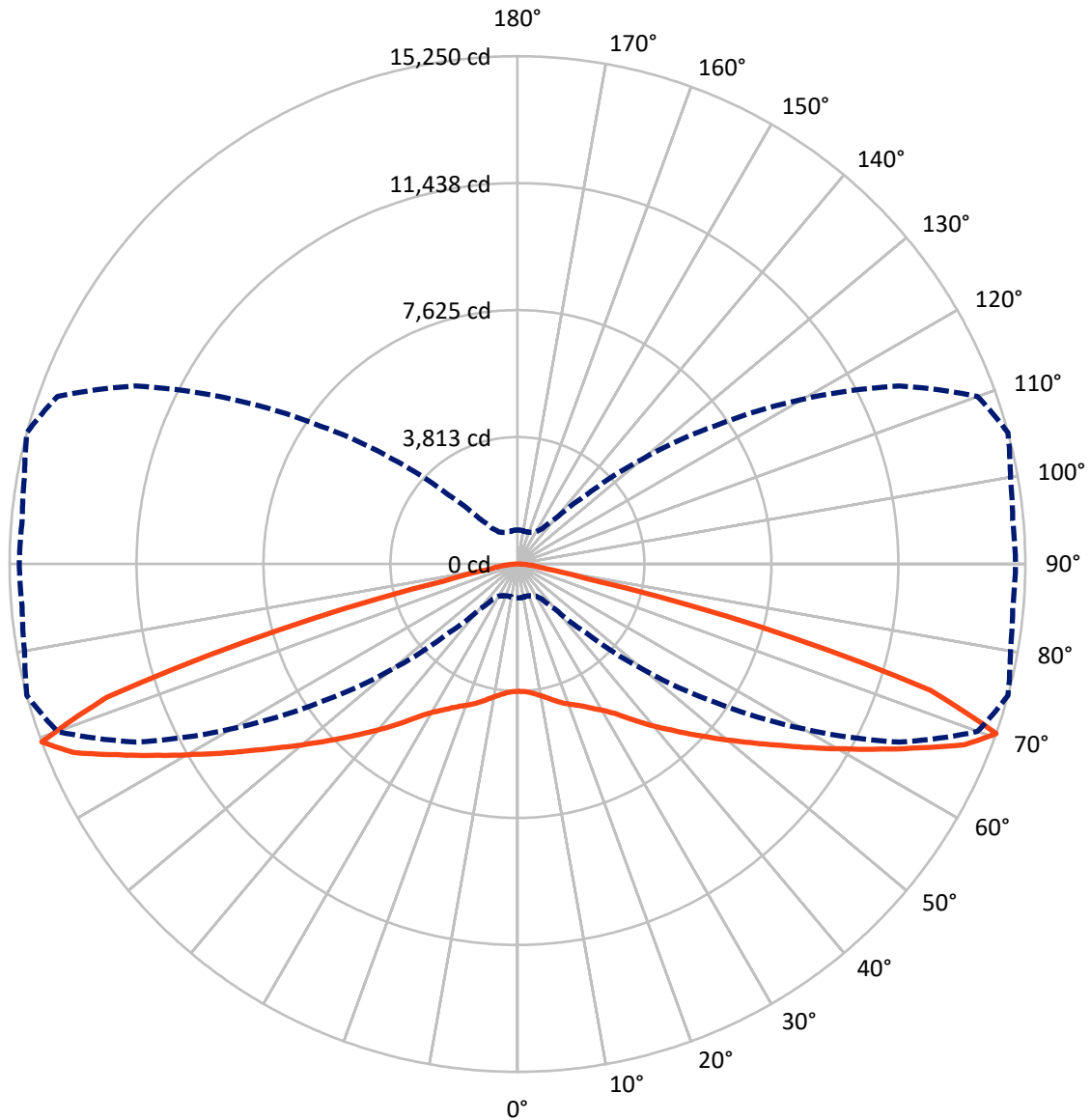
× Max cd
 - - - 1/2 Max cd



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	17237.3	0.0	17237.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17237.3	0.0	17237.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	34474.5	0.0	34474.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	1.1
10°-20°	1139.6	3.3
20°-30°	2144.8	6.2
30°-40°	3798.1	11.0
40°-50°	6351.6	18.4
50°-60°	8851.0	25.7
60°-70°	8207.8	23.8
70°-80°	3271.1	9.5
80°-90°	343.8	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°	34474.5	100.0
0°-180°	34474.5	100.0

Coefficient of Utilization



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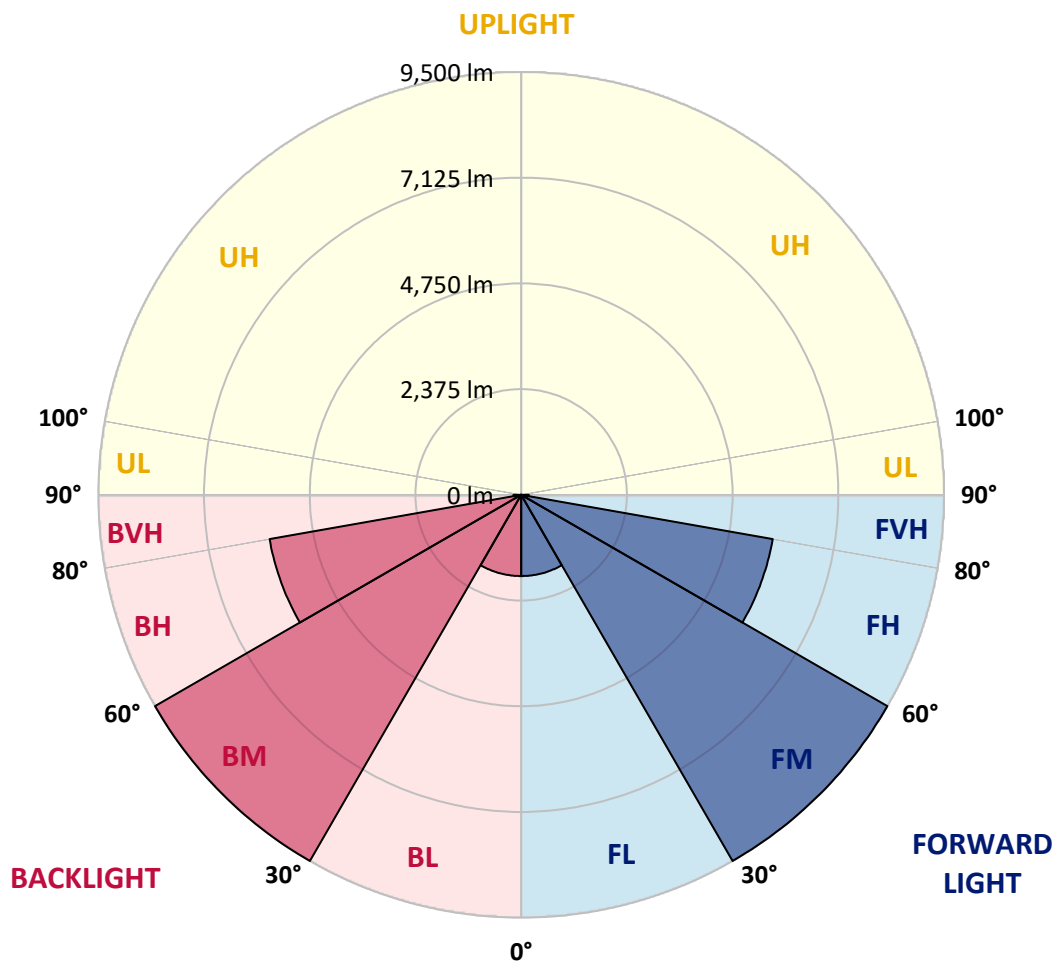
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.6	5.3			
FM	(30°-60°)	9500.3	27.6			
FH	(60°-80°)	5739.5	16.6			G3/7500
FVH	(80°-90°)	171.9	0.5			G2/225
BL	(0°-30°)	1825.6	5.3	B3/2500		
BM	(30°-60°)	9500.3	27.6	B5		
BH	(60°-80°)	5739.5	16.6	B5		G3/7500
BVH	(80°-90°)	171.9	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°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
2.5°	3817.4	3814.3	3817.4	3815.9	3819.1	3819.1	3822.4	3828.9	3828.9	3833.7	3832.2
5°	3780.1	3778.5	3783.3	3788.2	3793.1	3802.9	3812.6	3827.3	3838.6	3846.8	3854.9
7.5°	3706.8	3706.8	3713.2	3724.6	3736.1	3757.3	3780.1	3809.4	3838.6	3863.2	3884.4
10°	3646.4	3649.8	3657.9	3677.4	3697.0	3729.6	3760.5	3802.9	3843.6	3884.4	3916.9
12.5°	3610.6	3615.5	3630.1	3659.4	3692.0	3736.1	3783.3	3837.1	3882.7	3931.5	3964.1
15°	3622.0	3625.3	3646.4	3682.3	3724.6	3780.1	3843.6	3907.1	3960.8	4013.0	4057.0
17.5°	3685.6	3690.4	3714.9	3755.6	3799.7	3864.8	3933.1	4004.9	4071.7	4130.3	4184.1
20°	3799.7	3804.5	3835.5	3879.4	3931.5	3998.4	4066.7	4141.7	4216.7	4278.5	4339.0
22.5°	3960.8	3969.0	3998.4	4042.4	4101.0	4172.6	4254.2	4334.1	4405.6	4462.7	4516.5
25°	4172.6	4190.7	4218.4	4267.2	4329.1	4394.2	4482.3	4563.7	4632.2	4686.0	4725.1
27.5°	4472.5	4496.9	4518.1	4565.4	4625.6	4687.5	4775.6	4847.3	4912.4	4964.6	4993.9
30°	4870.0	4894.4	4915.6	4961.2	5016.8	5075.3	5158.4	5221.9	5262.7	5303.5	5301.8
32.5°	5352.3	5378.4	5386.5	5435.5	5492.4	5555.9	5630.9	5666.8	5699.3	5704.2	5675.0
35°	5891.7	5904.6	5937.3	6002.5	6067.6	6119.8	6191.5	6209.4	6209.4	6184.9	6119.8
37.5°	6483.1	6491.2	6536.8	6610.2	6677.0	6730.7	6779.6	6815.5	6797.6	6745.5	6636.3
40°	7131.6	7146.2	7211.5	7276.6	7351.5	7402.0	7454.1	7460.8	7442.7	7366.2	7217.9
42.5°	7750.7	7763.7	7828.9	7931.6	8029.3	8099.4	8148.3	8158.0	8101.0	8030.9	7846.9
45°	8283.5	8317.8	8402.4	8522.9	8664.7	8764.1	8831.0	8858.6	8808.2	8717.0	8503.4
47.5°	8705.5	8739.7	8860.3	9003.6	9179.6	9340.9	9451.7	9510.4	9497.3	9428.9	9195.9
50°	9015.1	9047.6	9178.1	9354.1	9559.3	9759.6	9948.6	10088.8	10137.6	10106.7	9893.3
52.5°	9051.0	9104.7	9257.8	9494.0	9761.3	10035.1	10303.9	10541.7	10703.0	10727.5	10569.5
55°	8550.6	8604.4	8816.2	9166.6	9564.2	10010.6	10440.7	10841.6	11159.3	11322.1	11239.1
57.5°	7371.1	7467.3	7690.4	8101.0	8685.9	9354.1	10039.8	10752.0	11398.8	11830.6	11913.6
60°	5648.9	5762.9	5987.8	6424.5	7076.2	7872.9	8788.6	9841.1	10983.2	11954.4	12534.4
62.5°	3623.7	3731.2	3967.5	4347.1	4878.2	5741.7	6724.3	7974.0	9508.7	11042.0	12423.6
65°	1862.4	1920.9	2044.8	2274.6	2688.4	3333.6	4215.0	5461.4	7216.3	9107.9	11105.4
67.5°	1179.7	1191.1	1218.7	1251.2	1357.2	1580.5	1991.1	2768.2	4211.9	6184.9	8522.9
70°	1019.9	1019.9	1006.9	1002.0	1015.1	1046.0	1109.5	1290.4	1777.6	2936.0	4915.6
72.5°	933.6	923.8	901.0	883.2	879.8	879.8	892.8	920.6	998.7	1196.0	1924.2
75°	860.2	832.5	801.6	780.4	772.4	764.2	762.5	767.4	783.7	814.7	919.0
77.5°	770.7	734.9	699.1	677.9	668.0	656.7	646.8	635.5	627.2	637.1	682.7
80°	663.0	622.3	594.7	581.7	572.0	555.6	534.4	514.9	496.9	493.7	521.3
82.5°	534.4	487.2	488.8	493.7	475.7	452.9	430.2	409.0	377.9	361.7	377.9
85°	431.7	407.3	396.0	426.9	400.9	366.6	330.8	293.2	244.3	205.4	223.1
87.5°	167.9	167.9	250.9	386.1	347.0	283.5	242.8	206.9	128.6	99.4	101.0
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°	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1	3824.1
2.5°	3830.6	3833.7	3832.2	3830.6	3830.6	3828.9	3830.6	3830.6
5°	3859.8	3868.0	3868.0	3871.2	3871.2	3873.0	3874.5	3873.0
7.5°	3903.9	3918.5	3928.3	3939.6	3941.4	3943.0	3946.3	3943.0
10°	3947.8	3977.2	3998.4	4019.6	4029.3	4032.6	4035.8	4035.8
12.5°	4003.2	4044.0	4081.4	4119.0	4136.9	4146.7	4146.7	4153.1
15°	4094.6	4135.3	4179.3	4229.7	4260.8	4277.0	4282.0	4282.0
17.5°	4223.2	4259.0	4296.6	4345.5	4384.4	4405.6	4410.6	4408.9
20°	4373.0	4407.4	4428.6	4459.5	4493.7	4518.1	4524.7	4524.7
22.5°	4544.2	4563.7	4567.1	4576.8	4604.5	4637.1	4651.8	4654.9
25°	4733.2	4738.1	4725.1	4725.1	4743.1	4774.0	4788.5	4790.2
27.5°	4977.6	4953.2	4920.6	4909.1	4920.6	4956.4	4974.4	4980.8
30°	5282.3	5223.6	5148.6	5107.9	5101.5	5148.6	5181.2	5186.2
32.5°	5630.9	5546.2	5446.9	5363.7	5342.6	5371.9	5411.0	5409.4
35°	6044.9	5943.7	5823.3	5717.4	5668.5	5697.8	5753.1	5759.7
37.5°	6522.2	6390.3	6251.8	6118.1	6041.6	6049.6	6108.4	6127.9
40°	7055.0	6883.9	6709.6	6530.4	6421.2	6400.0	6471.7	6483.1
42.5°	7625.3	7405.3	7185.4	6963.8	6823.6	6791.0	6874.1	6869.2
45°	8233.0	7952.8	7695.3	7450.9	7284.7	7235.8	7304.3	7304.3
47.5°	8886.4	8540.9	8234.7	7957.6	7776.7	7706.6	7771.9	7776.7
50°	9578.7	9212.2	8852.2	8544.1	8327.5	8237.8	8322.5	8335.6
52.5°	10268.0	9911.2	9547.8	9195.9	8933.6	8824.4	8922.1	8964.5
55°	10967.0	10616.7	10269.7	9925.8	9614.6	9485.9	9590.2	9643.9
57.5°	11705.0	11380.8	11050.1	10703.0	10403.2	10202.8	10313.6	10385.3
60°	12570.3	12293.2	11949.4	11566.5	11263.6	11059.8	11123.4	11187.0
62.5°	13254.6	13362.1	13070.5	12627.2	12237.9	11977.2	12039.1	12105.9
65°	12923.8	14026.9	14285.9	13837.9	13298.6	12892.8	12866.9	12901.0
67.5°	10802.5	12944.9	14507.5	14934.4	14483.1	13919.3	13815.0	13865.6
70°	7226.1	9894.9	12651.6	14704.6	15250.4	15032.1	14929.6	14960.5
72.5°	3470.4	5762.9	8583.2	11312.4	12974.3	13736.8	13981.2	14100.2
75°	1269.2	2287.5	4136.9	6233.8	7525.9	8712.0	9485.9	9802.0
77.5°	765.7	923.8	1321.3	1989.3	2253.4	2522.3	2417.9	2470.1
80°	567.0	640.3	725.0	814.7	844.0	844.0	811.3	785.4
82.5°	397.6	444.8	485.5	534.4	547.4	523.1	430.2	342.2
85°	255.7	276.9	295.0	325.8	317.7	303.1	203.6	180.9
87.5°	117.3	133.6	140.1	154.8	148.3	141.8	101.0	84.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)