

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: P268644

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42152.7 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 448
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

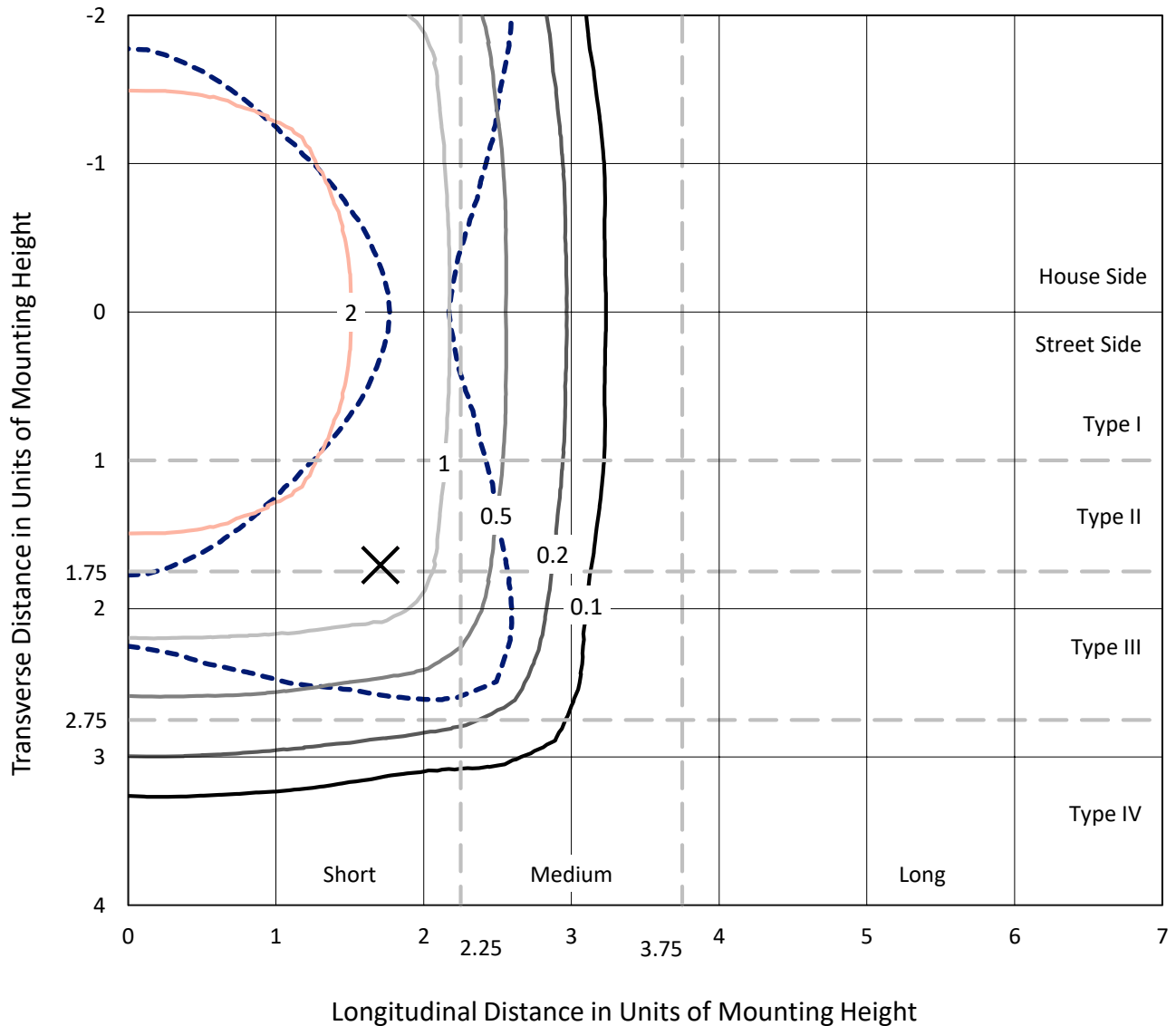


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

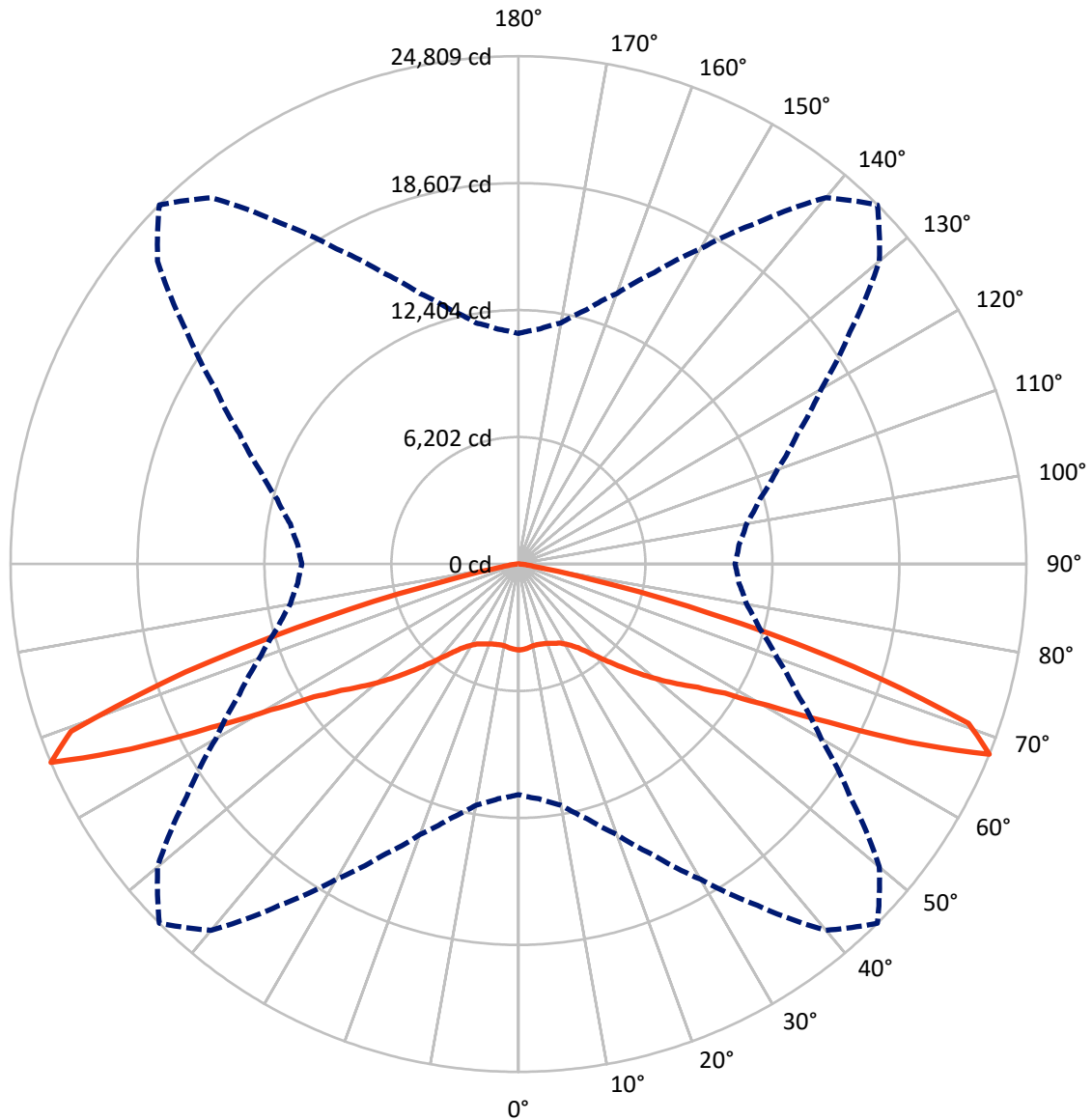


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21076.3	0.0	21076.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21076.3	0.0	21076.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	42152.7	0.0	42152.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.2	0.9
10°-20°	1140.9	2.7
20°-30°	1939.5	4.6
30°-40°	3170.5	7.5
40°-50°	5659.9	13.4
50°-60°	9542.7	22.6
60°-70°	14808.9	35.1
70°-80°	5203.2	12.3
80°-90°	294.1	0.7
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°	42152.7	100.0
0°-180°	42152.7	100.0



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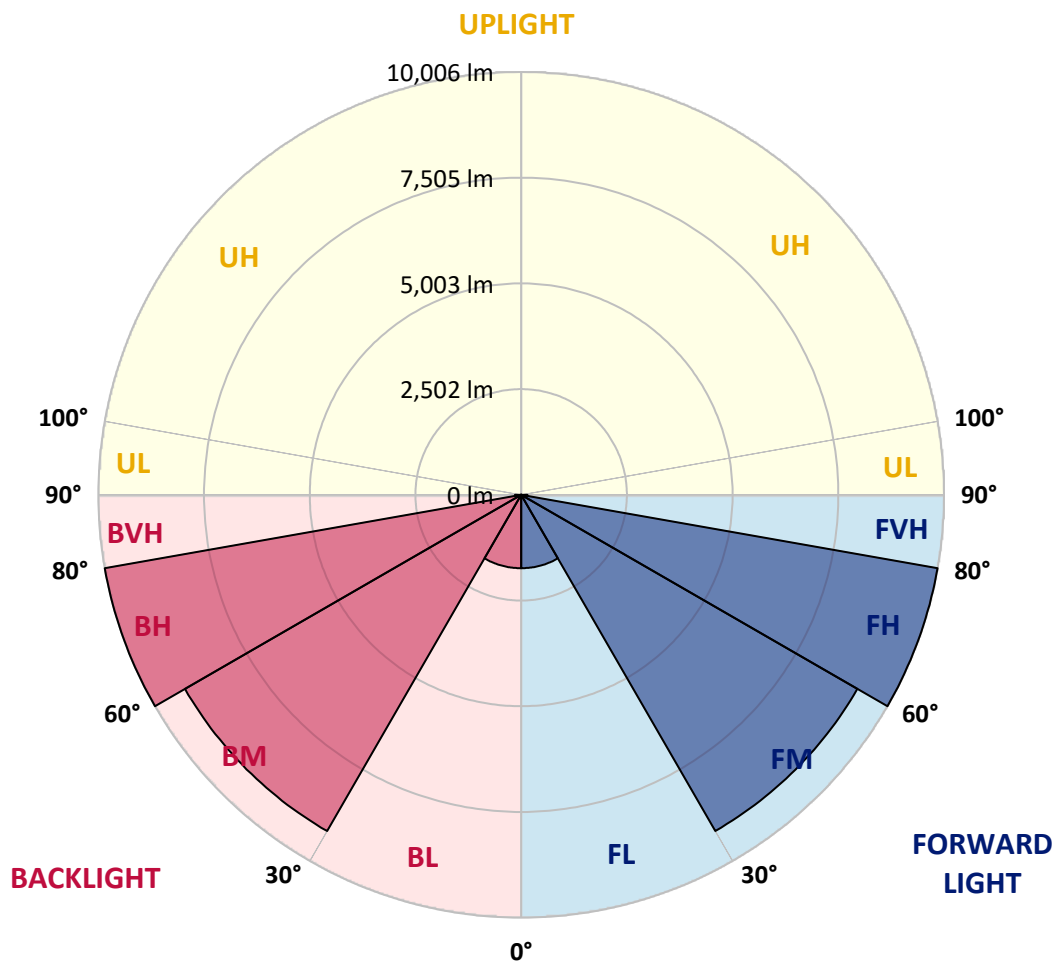
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1736.8	4.1			
FM	(30°-60°)	9186.5	21.8			
FH	(60°-80°)	10006.0	23.7			G4/12000
FVH	(80°-90°)	147.0	0.3			G2/225
BL	(0°-30°)	1736.8	4.1	B3/2500		
BM	(30°-60°)	9186.5	21.8	B5		
BH	(60°-80°)	10006.0	23.7	B5		G4/12000
BVH	(80°-90°)	147.0	0.3			G2/225
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°	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7
2.5°	4185.2	4189.1	4189.1	4189.1	4187.1	4187.1	4183.2	4187.1	4185.2	4179.4	4181.3
5°	4150.3	4154.1	4154.1	4152.2	4158.1	4156.1	4150.3	4154.1	4152.2	4148.4	4150.3
7.5°	4099.9	4105.8	4105.8	4103.7	4109.6	4107.6	4103.7	4105.8	4105.8	4099.9	4099.9
10°	4043.7	4047.6	4047.6	4045.5	4055.3	4055.3	4053.3	4059.3	4061.1	4055.3	4051.4
12.5°	3991.3	3997.2	3997.2	4005.0	4014.5	4018.5	4028.2	4035.9	4043.7	4041.7	4034.0
15°	3960.3	3964.2	3971.9	3981.6	3997.2	4010.8	4026.3	4043.7	4059.3	4063.0	4051.4
17.5°	3941.0	3946.8	3958.4	3971.9	3993.2	4016.5	4039.8	4063.0	4084.4	4092.0	4078.6
20°	3935.1	3939.0	3950.7	3973.9	4002.9	4037.8	4070.8	4098.0	4127.1	4136.8	4127.1
22.5°	3946.8	3954.5	3968.1	3995.2	4034.0	4078.6	4117.3	4154.1	4191.0	4208.4	4194.8
25°	3999.1	4006.8	4024.2	4059.3	4101.8	4148.4	4192.8	4235.6	4268.6	4286.1	4276.3
27.5°	4096.0	4105.8	4127.1	4161.8	4208.4	4258.9	4307.4	4342.1	4369.4	4375.1	4363.5
30°	4241.3	4262.7	4287.9	4326.6	4380.9	4423.7	4472.1	4503.2	4536.0	4536.0	4526.4
32.5°	4468.2	4489.5	4516.7	4553.5	4596.2	4642.7	4685.3	4712.5	4747.4	4749.2	4726.1
35°	4807.4	4817.2	4840.3	4863.7	4902.4	4943.2	4979.9	4997.5	5026.5	5028.4	5007.2
37.5°	5255.3	5257.2	5272.7	5280.4	5315.4	5359.8	5394.9	5406.4	5433.6	5429.6	5408.3
40°	5776.7	5786.3	5792.2	5803.8	5840.6	5883.3	5920.1	5925.9	5955.0	5949.2	5922.0
42.5°	6379.6	6383.4	6416.4	6433.8	6468.8	6490.1	6536.5	6542.4	6577.3	6561.8	6530.8
45°	7056.0	7091.0	7122.0	7156.8	7193.6	7218.9	7255.7	7248.0	7271.2	7248.0	7230.5
47.5°	7767.6	7792.6	7862.4	7916.8	7976.9	7998.1	8050.5	8027.3	8050.5	8017.6	8011.8
50°	8550.6	8595.3	8655.3	8717.3	8781.3	8816.2	8884.1	8855.0	8886.0	8855.0	8837.5
52.5°	9322.3	9333.7	9465.6	9556.7	9645.9	9686.7	9727.2	9713.7	9715.7	9713.7	9696.2
55°	10054.9	10082.0	10213.9	10338.0	10493.0	10607.4	10677.2	10669.3	10651.9	10634.6	10605.4
57.5°	10880.7	10907.8	11059.0	11212.1	11388.6	11551.5	11692.9	11838.4	11894.5	11910.1	11846.0
60°	11997.3	11995.3	12196.9	12383.0	12635.0	12877.4	13187.5	13503.4	13866.0	14034.6	13811.7
62.5°	13133.2	13179.8	13470.5	13800.0	14319.5	14825.4	15397.4	15959.5	16533.3	17000.6	16504.2
65°	12997.5	13175.9	13608.2	14354.5	15314.0	16453.8	17686.6	18991.2	20170.0	20980.2	20071.0
67.5°	11264.6	11518.4	11958.4	12865.7	14065.7	15709.5	17779.8	20359.8	23358.6	24808.8	23011.7
70°	8164.9	8451.9	8913.2	9799.0	10987.3	12549.7	14798.4	17896.0	21866.1	23327.6	21348.5
72.5°	4063.0	4218.1	4503.2	5067.2	5966.6	7234.4	9273.7	12251.3	15763.7	17105.2	15296.6
75°	1380.2	1451.9	1500.3	1684.5	1969.5	2467.6	3481.6	5356.1	8170.8	9795.2	8054.5
77.5°	796.6	798.7	831.7	864.6	913.0	967.4	1102.9	1448.1	2504.6	3557.1	2591.8
80°	515.6	513.7	540.8	566.0	599.0	626.1	633.8	670.8	773.4	916.9	820.0
82.5°	267.5	300.5	360.6	393.5	455.5	467.2	451.7	438.2	463.3	480.8	492.5
85°	147.3	128.0	191.9	248.1	275.3	279.2	279.2	263.7	273.4	267.5	290.8
87.5°	67.8	62.1	75.5	122.1	129.8	110.5	116.3	102.8	73.8	71.8	81.4
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°	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7	4200.7
2.5°	4181.3	4183.2	4183.2	4189.1	4191.0	4194.8	4198.8	4200.7
5°	4148.4	4154.1	4150.3	4156.1	4156.1	4160.1	4160.1	4161.8
7.5°	4099.9	4105.8	4105.8	4105.8	4103.7	4109.6	4109.6	4109.6
10°	4049.5	4053.3	4051.4	4047.6	4043.7	4049.5	4047.6	4045.5
12.5°	4034.0	4024.2	4016.5	4012.6	4005.0	4006.8	4001.1	4001.1
15°	4043.7	4026.3	4012.6	4006.8	3999.1	3995.2	3991.3	3993.2
17.5°	4068.9	4047.6	4030.1	4020.5	4010.8	4005.0	3997.2	3999.1
20°	4113.5	4088.2	4063.0	4043.7	4026.3	4016.5	4010.8	4008.7
22.5°	4179.4	4142.5	4105.8	4076.6	4053.3	4039.8	4034.0	4030.1
25°	4255.0	4214.3	4171.5	4138.6	4115.3	4098.0	4086.3	4086.3
27.5°	4350.0	4317.1	4278.3	4239.6	4218.1	4200.7	4192.8	4189.1
30°	4509.0	4478.0	4446.9	4410.0	4382.9	4365.5	4351.8	4340.3
32.5°	4712.5	4687.3	4662.1	4635.0	4609.7	4586.4	4565.1	4555.5
35°	4999.3	4979.9	4962.4	4931.4	4921.9	4908.2	4896.7	4886.9
37.5°	5394.9	5387.0	5387.0	5354.1	5346.4	5340.6	5328.8	5330.8
40°	5914.4	5922.0	5912.4	5900.7	5894.9	5879.3	5879.3	5893.1
42.5°	6528.8	6534.6	6555.9	6536.5	6557.8	6538.6	6526.8	6536.5
45°	7242.1	7263.4	7306.2	7286.7	7300.3	7267.4	7226.7	7228.7
47.5°	8042.7	8062.2	8079.5	8066.1	8067.9	8013.7	7959.4	7945.9
50°	8874.4	8882.1	8891.9	8872.4	8876.3	8816.2	8754.3	8756.0
52.5°	9696.2	9733.1	9771.9	9719.5	9708.0	9640.2	9552.8	9517.9
55°	10636.4	10688.8	10644.1	10553.1	10462.0	10370.9	10256.5	10237.2
57.5°	11795.6	11706.5	11566.9	11394.5	11268.3	11140.5	11024.2	10975.8
60°	13408.6	13073.2	12821.1	12565.2	12404.3	12247.3	12094.2	12071.0
62.5°	15688.1	15108.6	14606.5	14077.2	13645.0	13307.8	13038.2	12962.6
65°	18545.5	17175.0	15986.6	14877.9	13914.4	13187.5	12730.1	12528.4
67.5°	19774.5	17068.3	15031.0	13456.9	12196.9	11316.8	10822.5	10576.4
70°	17376.5	14154.9	11939.2	10363.1	9215.5	8277.3	7829.5	7565.9
72.5°	11954.6	9004.3	7120.1	5811.6	4894.7	4109.6	3799.4	3776.1
75°	5367.6	3555.2	2450.2	1888.1	1589.6	1382.1	1318.2	1269.8
77.5°	1502.3	1110.8	990.7	926.6	864.6	792.8	765.6	771.6
80°	730.9	690.1	662.9	622.3	566.0	505.9	478.7	490.5
82.5°	484.6	478.7	496.3	467.2	385.7	327.6	275.3	252.1
85°	294.6	298.5	304.3	306.3	259.8	182.3	124.1	139.5
87.5°	116.3	133.8	145.3	151.3	141.6	87.2	69.8	71.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)