

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: P191005

Luminaire Tested: **GAN-AF-07-LED-U-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191005
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-07-LED-U-RW-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35569 lumens
Efficiency: N/A
Efficacy: 120.6 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

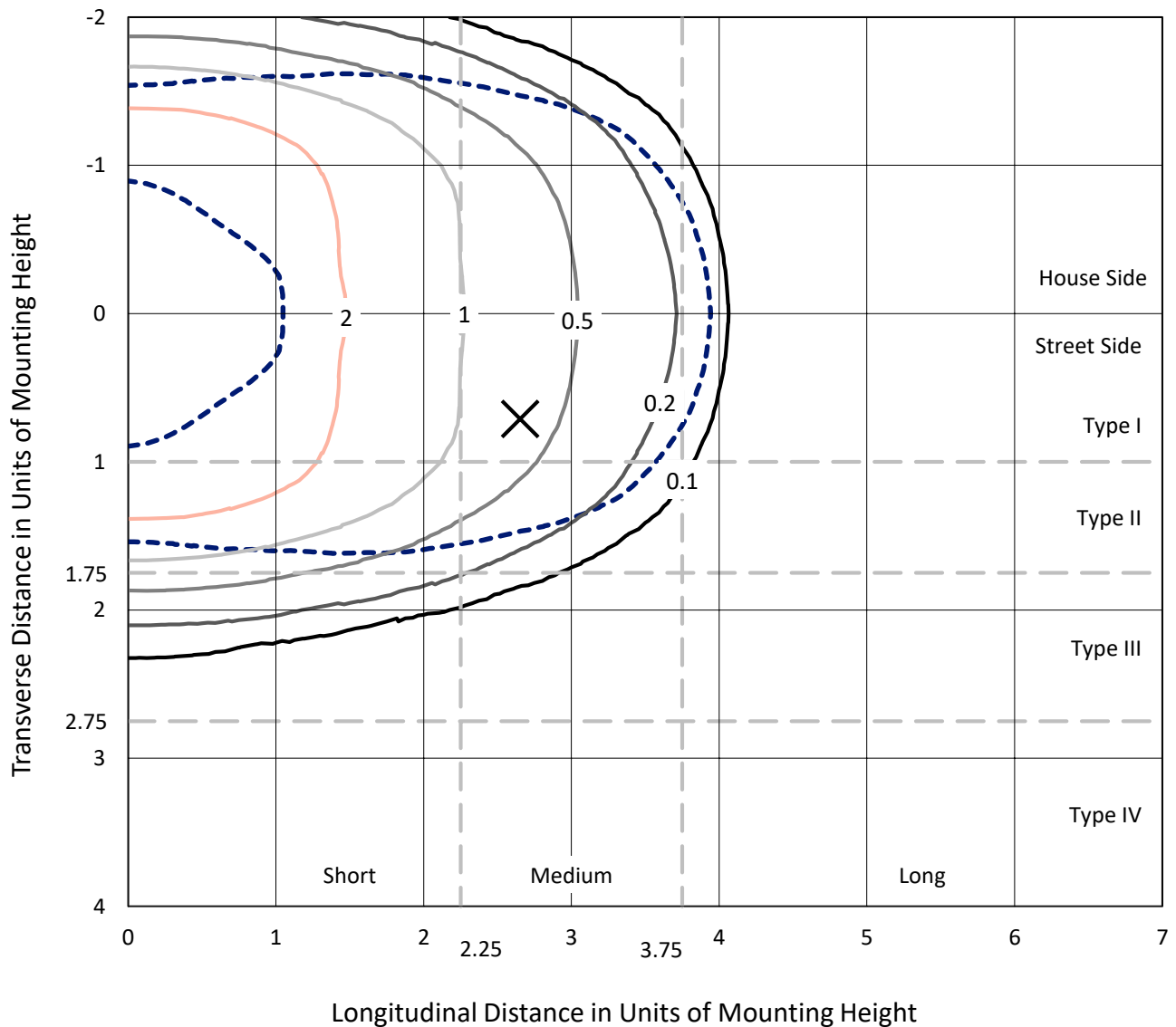
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

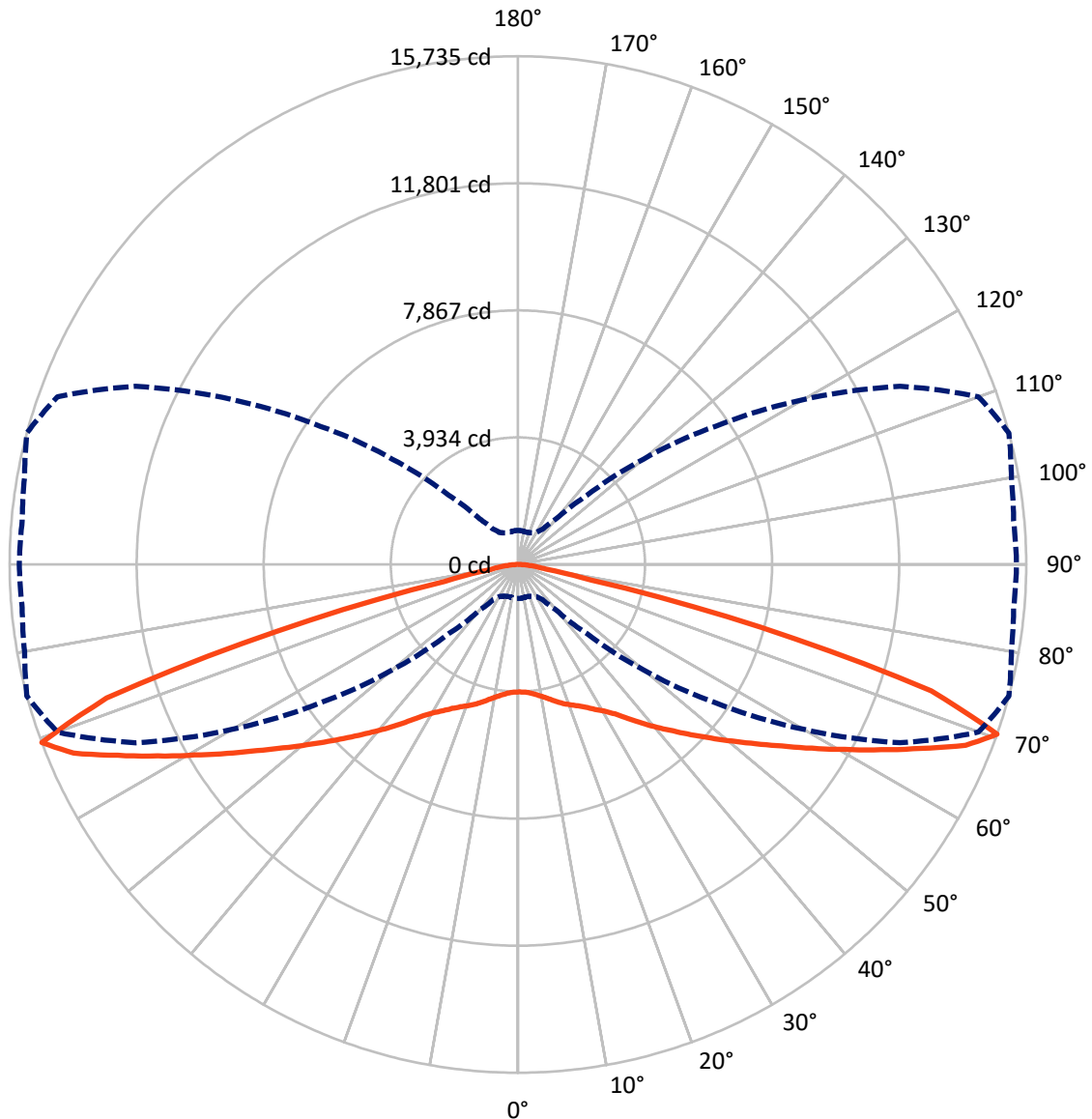
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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	17784.5	0.0	17784.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17784.5	0.0	17784.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35569.0	0.0	35569.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.4	1.1
10°-20°	1175.7	3.3
20°-30°	2212.9	6.2
30°-40°	3918.7	11.0
40°-50°	6553.2	18.4
50°-60°	9132.0	25.7
60°-70°	8468.4	23.8
70°-80°	3374.9	9.5
80°-90°	354.8	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°	35569.0	100.0
0°-180°	35569.0	100.0



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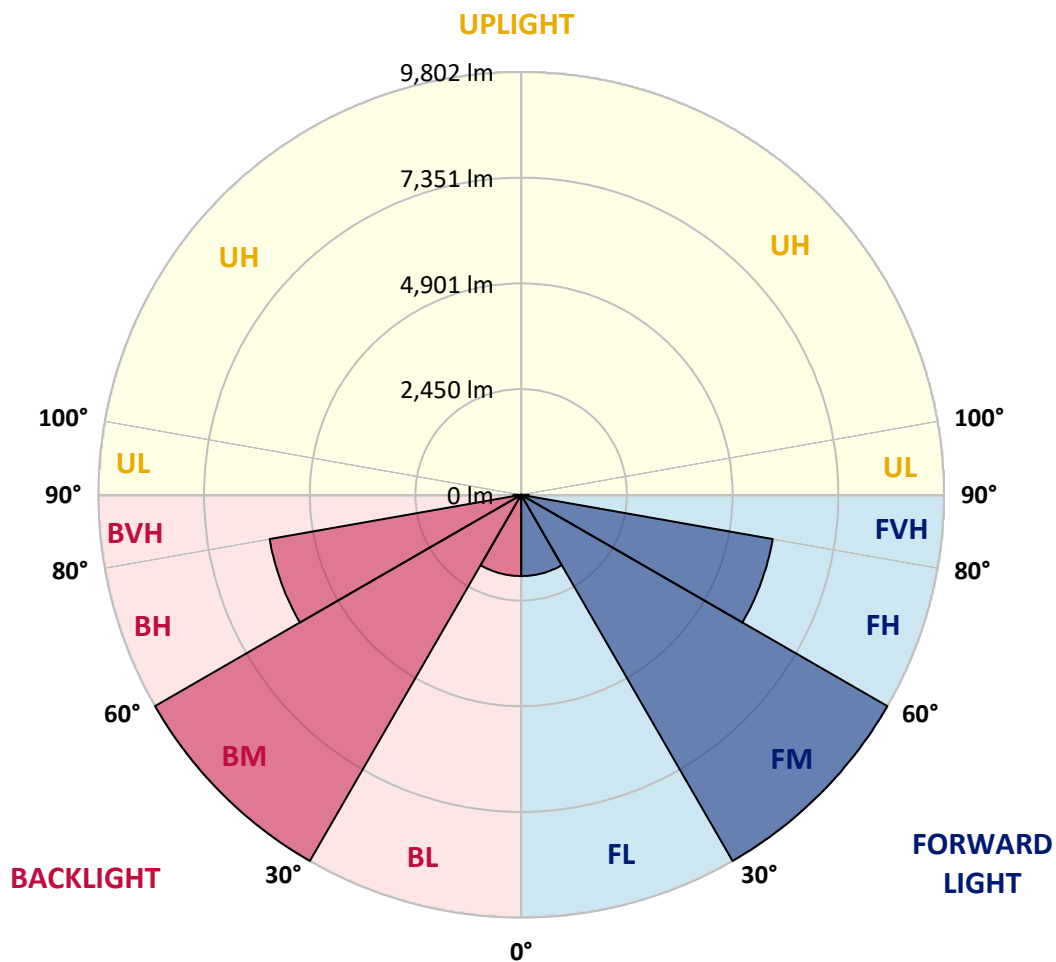
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1883.5	5.3			
FM	(30°-60°)	9801.9	27.6			
FH	(60°-80°)	5921.7	16.6			G3/7500
FVH	(80°-90°)	177.4	0.5			G2/225
BL	(0°-30°)	1883.5	5.3	B3/2500		
BM	(30°-60°)	9801.9	27.6	B5		
BH	(60°-80°)	5921.7	16.6	B5		G3/7500
BVH	(80°-90°)	177.4	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°	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4
2.5°	3938.7	3935.4	3938.7	3937.0	3940.4	3940.4	3943.8	3950.4	3950.4	3955.5	3953.8
5°	3900.0	3898.4	3903.4	3908.5	3913.5	3923.6	3933.7	3948.8	3960.6	3968.9	3977.3
7.5°	3824.4	3824.4	3831.2	3842.9	3854.7	3876.5	3900.0	3930.3	3960.6	3985.8	4007.6
10°	3762.2	3765.6	3774.0	3794.1	3814.3	3847.9	3879.8	3923.6	3965.6	4007.6	4041.3
12.5°	3725.2	3730.3	3745.4	3775.6	3809.3	3854.7	3903.4	3958.9	4006.0	4056.4	4090.0
15°	3736.9	3740.3	3762.2	3799.1	3842.9	3900.0	3965.6	4031.1	4086.7	4140.4	4185.8
17.5°	3802.5	3807.6	3832.8	3874.8	3920.3	3987.5	4058.0	4132.0	4201.0	4261.5	4317.0
20°	3920.3	3925.3	3957.2	4002.6	4056.4	4125.4	4195.9	4273.3	4350.6	4414.4	4476.6
22.5°	4086.7	4095.1	4125.4	4170.7	4231.2	4305.2	4389.3	4471.6	4545.6	4604.4	4659.8
25°	4305.2	4323.7	4352.2	4402.7	4466.5	4533.8	4624.6	4708.6	4779.2	4834.7	4875.1
27.5°	4614.5	4639.7	4661.6	4710.3	4772.5	4836.4	4927.1	5001.1	5068.4	5122.2	5152.4
30°	5024.6	5049.9	5071.8	5118.8	5175.9	5236.5	5322.2	5387.8	5429.8	5471.9	5470.1
32.5°	5522.3	5549.2	5557.6	5608.0	5666.8	5732.4	5809.7	5846.7	5880.3	5885.3	5855.1
35°	6078.7	6092.2	6125.7	6193.0	6260.3	6314.1	6388.0	6406.5	6406.5	6381.3	6314.1
37.5°	6688.9	6697.4	6744.4	6820.0	6889.0	6944.4	6994.8	7031.9	7013.4	6959.5	6846.9
40°	7358.0	7373.1	7440.3	7507.5	7584.9	7637.0	7690.9	7697.5	7679.1	7600.0	7447.1
42.5°	7996.8	8010.2	8077.4	8183.4	8284.3	8356.5	8406.9	8417.0	8358.2	8285.9	8095.9
45°	8546.4	8581.7	8669.2	8793.6	8939.9	9042.4	9111.3	9139.9	9087.8	8993.7	8773.4
47.5°	8981.9	9017.2	9141.6	9289.5	9471.1	9637.5	9751.8	9812.3	9798.8	9728.3	9487.9
50°	9301.3	9334.9	9469.4	9650.9	9862.8	10069.5	10264.5	10409.0	10459.5	10427.6	10207.3
52.5°	9338.2	9393.8	9551.7	9795.5	10071.2	10353.6	10631.0	10876.4	11042.9	11068.0	10905.0
55°	8822.1	8877.7	9096.2	9457.6	9867.8	10328.4	10772.2	11185.8	11513.5	11681.7	11595.9
57.5°	7605.1	7704.3	7934.6	8358.2	8961.7	9650.9	10358.6	11093.3	11760.7	12206.2	12291.9
60°	5828.3	5945.9	6177.9	6628.4	7300.8	8122.8	9067.6	10153.6	11331.9	12333.9	12932.3
62.5°	3738.7	3849.6	4093.3	4485.0	5033.1	5924.0	6937.8	8227.1	9810.6	11392.5	12818.1
65°	1921.4	1982.0	2109.7	2346.8	2773.7	3439.5	4348.9	5634.9	7445.3	9397.1	11458.1
67.5°	1217.1	1228.9	1257.4	1291.1	1400.3	1630.6	2054.3	2856.1	4345.5	6381.3	8793.6
70°	1052.3	1052.3	1038.9	1033.9	1047.3	1079.2	1144.8	1331.4	1834.0	3029.3	5071.8
72.5°	963.2	953.2	929.7	911.1	907.8	907.8	921.2	949.8	1030.5	1233.9	1985.3
75°	887.6	859.0	827.1	805.3	796.8	788.4	786.8	791.8	808.5	840.6	948.1
77.5°	795.1	758.1	721.2	699.3	689.3	677.5	667.4	655.6	647.2	657.2	704.4
80°	684.1	642.2	613.6	600.2	590.0	573.3	551.4	531.2	512.7	509.3	538.0
82.5°	551.4	502.7	504.3	509.3	490.9	467.3	443.8	422.0	390.1	373.2	390.1
85°	445.5	420.2	408.5	440.5	413.6	378.3	341.3	302.6	252.2	211.9	230.3
87.5°	173.2	173.2	258.9	398.4	358.0	292.5	250.5	213.5	132.8	102.5	104.2
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°	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4	3945.4
2.5°	3952.2	3955.5	3953.8	3952.2	3952.2	3950.4	3952.2	3952.2
5°	3982.4	3990.8	3990.8	3994.2	3994.2	3995.9	3997.6	3995.9
7.5°	4027.8	4042.9	4053.0	4064.8	4066.4	4068.2	4071.5	4068.2
10°	4073.2	4103.5	4125.4	4147.1	4157.3	4160.6	4163.9	4163.9
12.5°	4130.4	4172.4	4211.1	4249.7	4268.2	4278.3	4278.3	4285.0
15°	4224.5	4266.5	4311.9	4364.0	4395.9	4412.8	4417.8	4417.8
17.5°	4357.3	4394.3	4433.0	4483.4	4523.7	4545.6	4550.6	4549.0
20°	4511.9	4547.2	4569.1	4601.0	4636.3	4661.6	4668.2	4668.2
22.5°	4688.5	4708.6	4712.0	4722.0	4750.7	4784.2	4799.4	4802.8
25°	4883.5	4888.5	4875.1	4875.1	4893.6	4925.5	4940.6	4942.3
27.5°	5135.6	5110.4	5076.8	5065.0	5076.8	5113.7	5132.2	5139.0
30°	5450.0	5389.4	5312.1	5270.1	5263.4	5312.1	5345.7	5350.7
32.5°	5809.7	5722.3	5619.8	5534.1	5512.2	5542.4	5582.8	5581.1
35°	6236.7	6132.5	6008.1	5898.8	5848.4	5878.7	5935.8	5942.5
37.5°	6729.3	6593.1	6450.2	6312.3	6233.4	6241.7	6302.3	6322.4
40°	7279.0	7102.4	6922.6	6737.7	6625.0	6603.1	6677.1	6688.9
42.5°	7867.3	7640.4	7413.4	7184.8	7040.3	7006.6	7092.3	7087.3
45°	8494.4	8205.2	7939.6	7687.5	7516.0	7465.6	7536.2	7536.2
47.5°	9168.5	8812.1	8496.0	8210.3	8023.7	7951.4	8018.6	8023.7
50°	9882.9	9504.6	9133.2	8815.5	8591.9	8499.4	8586.9	8600.3
52.5°	10594.0	10225.8	9851.0	9487.9	9217.2	9104.6	9205.4	9249.1
55°	11315.2	10953.8	10595.7	10241.0	9919.9	9787.1	9894.7	9950.1
57.5°	12076.7	11742.1	11400.9	11042.9	10733.5	10526.8	10641.0	10715.0
60°	12969.4	12683.6	12328.8	11933.8	11621.1	11411.0	11476.6	11542.2
62.5°	13675.4	13786.3	13485.5	13028.2	12626.4	12357.5	12421.3	12490.2
65°	13334.2	14472.2	14739.5	14277.2	13720.7	13302.1	13275.2	13310.5
67.5°	11145.4	13356.0	14968.1	15408.5	14942.9	14361.2	14253.7	14305.8
70°	7455.5	10209.0	13053.4	15171.5	15734.6	15509.4	15403.5	15435.4
72.5°	3580.6	5945.9	8855.8	11671.6	13386.2	14173.0	14425.1	14547.8
75°	1309.6	2360.2	4268.2	6431.7	7764.8	8988.6	9787.1	10113.2
77.5°	790.1	953.2	1363.3	2052.6	2324.9	2602.3	2494.7	2548.5
80°	585.0	660.6	748.1	840.6	870.7	870.7	837.2	810.3
82.5°	410.2	458.9	500.9	551.4	564.9	539.6	443.8	353.0
85°	263.9	285.8	304.2	336.2	327.9	312.7	210.1	186.6
87.5°	121.0	137.9	144.5	159.7	152.9	146.3	104.2	87.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)