

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: P190824

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190824
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-06-LED-U-5MQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 41968.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

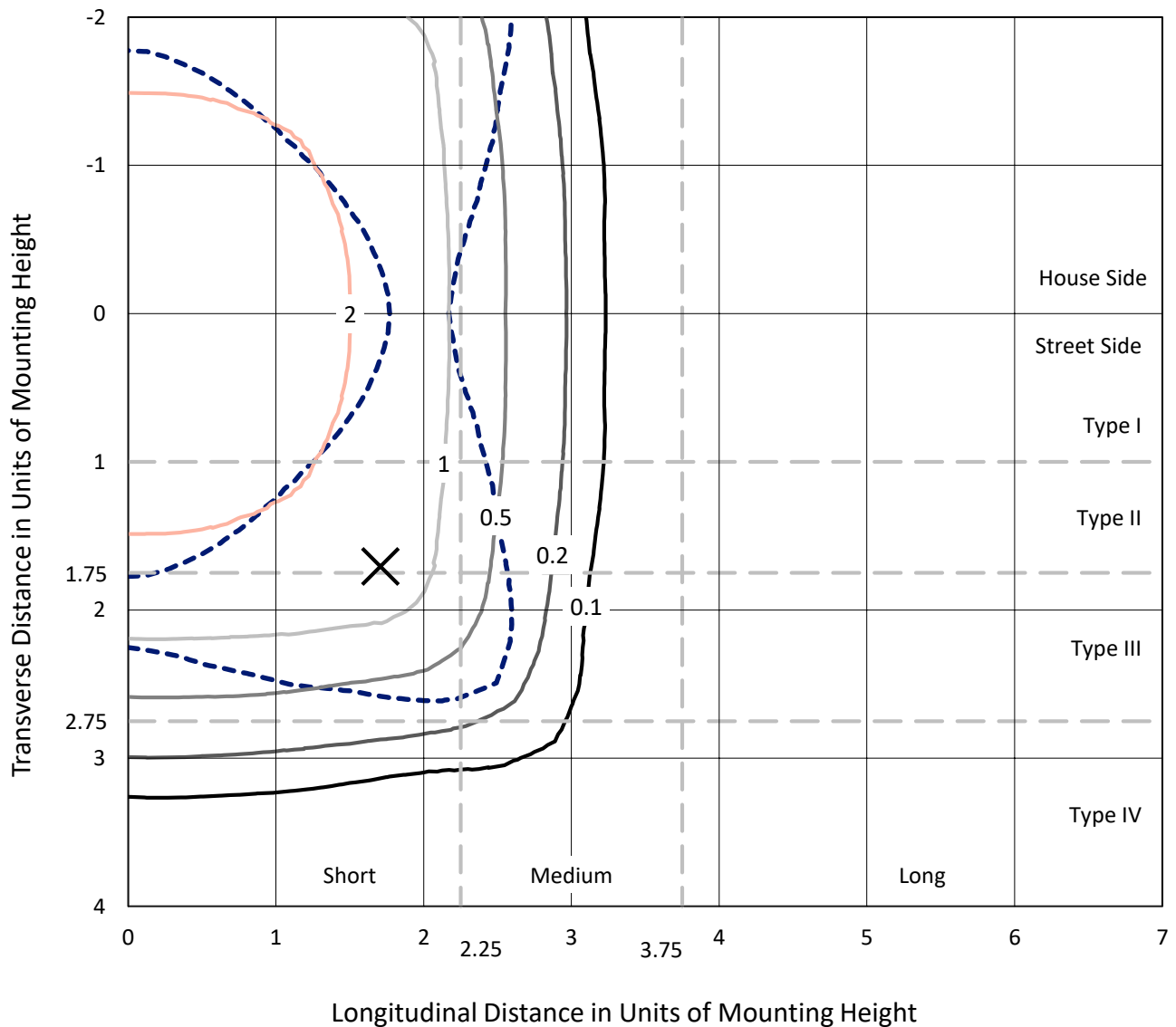
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

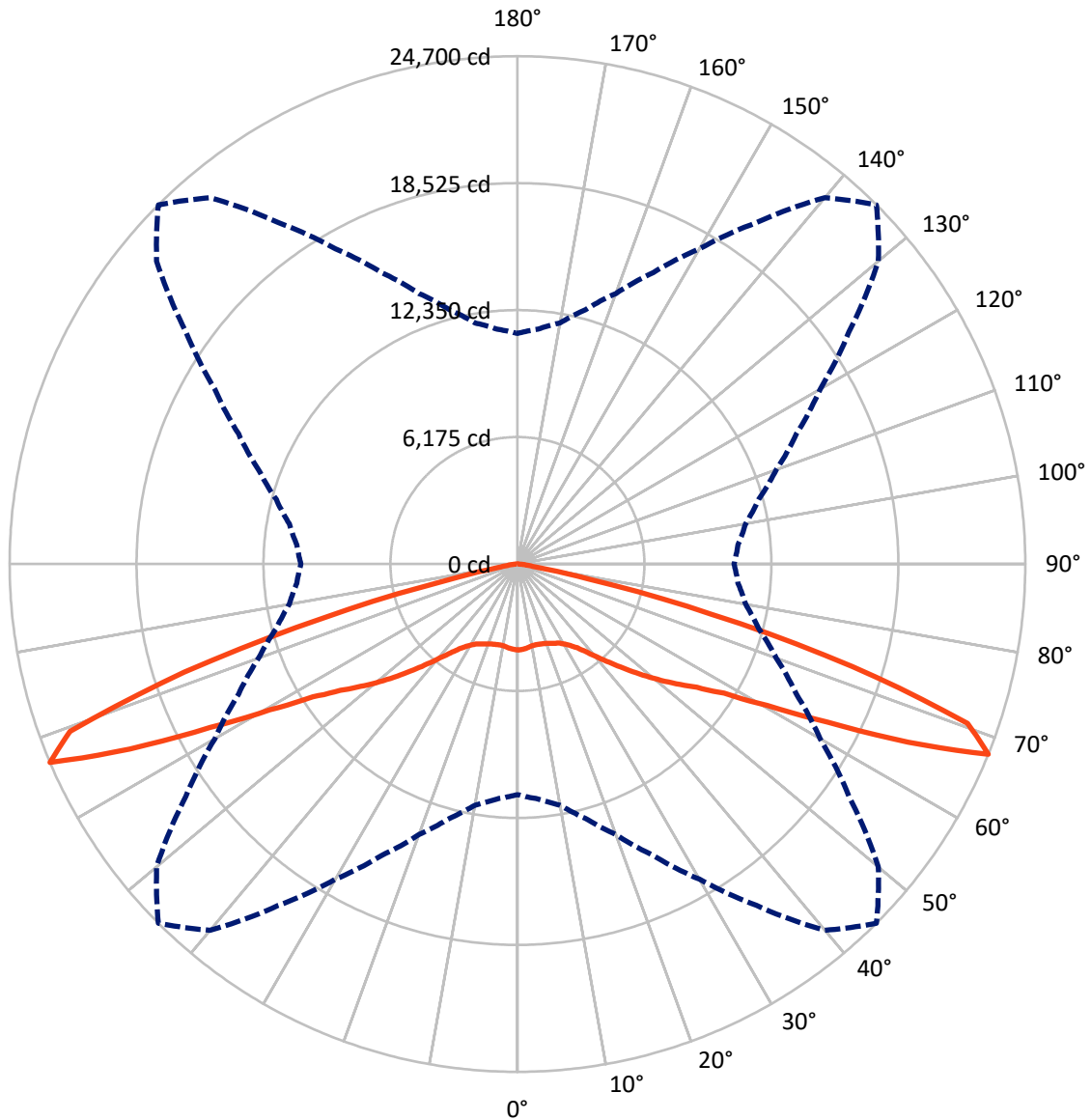
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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	20984.3	0.0	20984.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20984.3	0.0	20984.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	41968.6	0.0	41968.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.4	0.9
10°-20°	1135.9	2.7
20°-30°	1931.0	4.6
30°-40°	3156.6	7.5
40°-50°	5635.2	13.4
50°-60°	9501.0	22.6
60°-70°	14744.2	35.1
70°-80°	5180.5	12.3
80°-90°	292.8	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°	41968.6	100.0
0°-180°	41968.6	100.0



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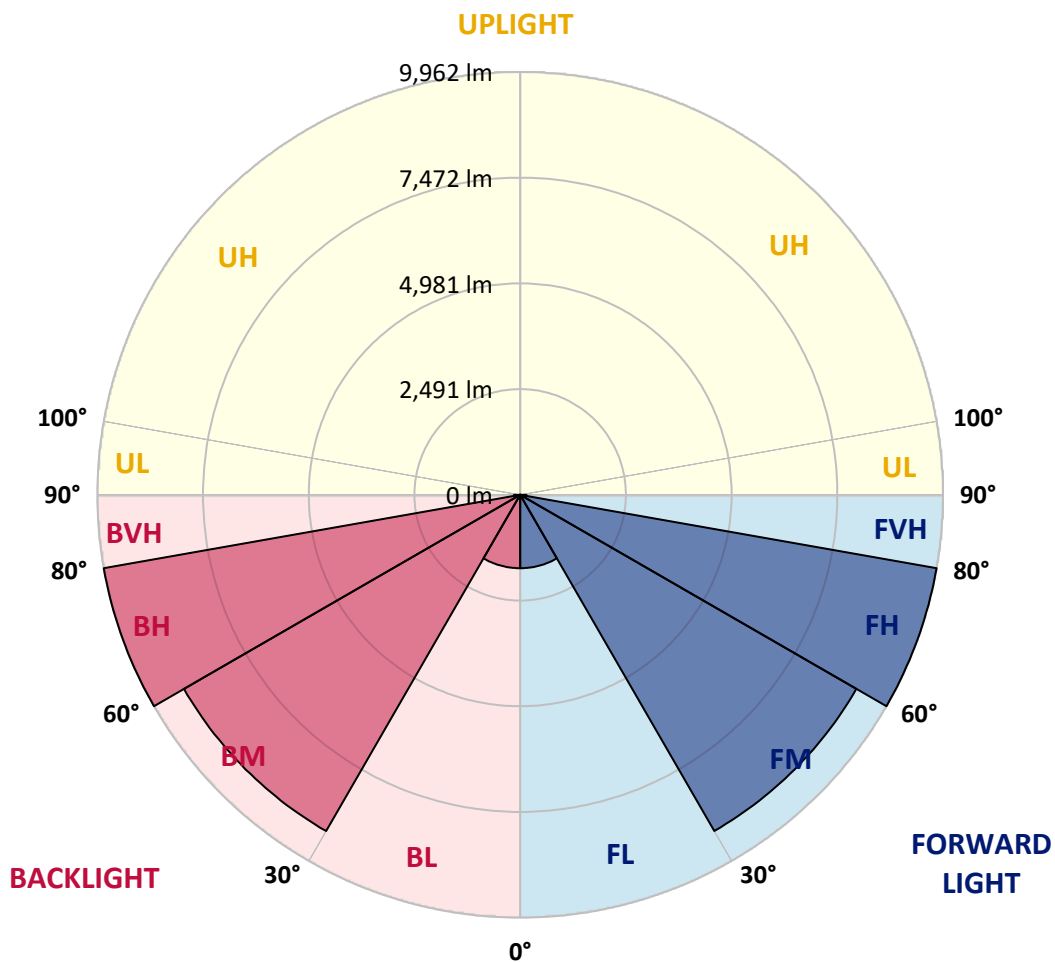
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1729.2	4.1			
FM	(30°-60°)	9146.4	21.8			
FH	(60°-80°)	9962.3	23.7			G4/12000
FVH	(80°-90°)	146.4	0.3			G2/225
BL	(0°-30°)	1729.2	4.1	B3/2500		
BM	(30°-60°)	9146.4	21.8	B5		
BH	(60°-80°)	9962.3	23.7	B5		G4/12000
BVH	(80°-90°)	146.4	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°	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3
2.5°	4166.9	4170.8	4170.8	4170.8	4168.8	4168.8	4164.9	4168.8	4166.9	4161.2	4163.0
5°	4132.2	4136.0	4136.0	4134.1	4139.9	4137.9	4132.2	4136.0	4134.1	4130.3	4132.2
7.5°	4082.0	4087.8	4087.8	4085.9	4091.6	4089.8	4085.9	4087.8	4087.8	4082.0	4082.0
10°	4026.0	4029.9	4029.9	4028.0	4037.6	4037.6	4035.6	4041.5	4043.4	4037.6	4033.7
12.5°	3973.9	3979.7	3979.7	3987.5	3997.1	4001.0	4010.6	4018.3	4026.0	4024.1	4016.4
15°	3943.1	3946.9	3954.6	3964.2	3979.7	3993.2	4008.6	4026.0	4041.5	4045.4	4033.7
17.5°	3923.7	3929.6	3941.1	3954.6	3975.8	3999.0	4022.1	4045.4	4066.5	4074.3	4060.8
20°	3917.9	3921.8	3933.3	3956.6	3985.5	4020.2	4053.0	4080.0	4109.0	4118.7	4109.0
22.5°	3929.6	3937.2	3950.7	3977.7	4016.4	4060.8	4099.4	4136.0	4172.7	4190.1	4176.6
25°	3981.6	3989.3	4006.7	4041.5	4083.9	4130.3	4174.7	4217.1	4249.8	4267.2	4257.6
27.5°	4078.1	4087.8	4109.0	4143.8	4190.1	4240.2	4288.5	4323.2	4350.3	4356.0	4344.5
30°	4222.8	4244.1	4269.2	4307.9	4361.9	4404.3	4452.6	4483.4	4516.2	4516.2	4506.6
32.5°	4448.7	4469.9	4496.9	4533.6	4576.1	4622.4	4664.9	4691.9	4726.6	4728.6	4705.4
35°	4786.5	4796.1	4819.2	4842.4	4881.0	4921.5	4958.2	4975.6	5004.6	5006.4	4985.2
37.5°	5232.3	5234.2	5249.7	5257.4	5292.1	5336.5	5371.2	5382.9	5409.9	5406.0	5384.7
40°	5751.4	5761.1	5766.9	5778.4	5815.2	5857.6	5894.2	5900.1	5929.0	5923.2	5896.2
42.5°	6351.7	6355.6	6388.3	6405.7	6440.5	6461.7	6508.0	6513.8	6548.5	6533.1	6502.2
45°	7025.2	7060.0	7090.9	7125.7	7162.3	7187.4	7224.1	7216.3	7239.5	7216.3	7199.0
47.5°	7733.6	7758.7	7828.1	7882.1	7942.0	7963.3	8015.3	7992.2	8015.3	7982.6	7976.8
50°	8513.3	8557.7	8617.5	8679.3	8743.0	8777.7	8845.3	8816.3	8847.2	8816.3	8798.9
52.5°	9281.4	9293.0	9424.2	9515.0	9603.8	9644.3	9684.8	9671.3	9673.2	9671.3	9654.0
55°	10011.0	10038.0	10169.3	10292.8	10447.2	10561.0	10630.5	10622.8	10605.4	10588.1	10559.1
57.5°	10833.2	10860.3	11010.7	11163.3	11338.9	11500.9	11641.9	11786.6	11842.6	11858.0	11794.3
60°	11944.9	11943.0	12143.7	12328.9	12579.8	12821.2	13129.9	13444.5	13805.4	13973.3	13751.4
62.5°	13075.9	13122.2	13411.7	13739.8	14257.1	14760.8	15330.1	15889.8	16461.1	16926.3	16432.2
65°	12940.7	13118.3	13548.7	14291.7	15247.2	16381.9	17609.5	18908.4	20081.9	20888.6	19983.4
67.5°	11215.3	11468.2	11906.3	12809.5	14004.2	15640.8	17702.2	20271.0	23256.7	24700.4	22911.2
70°	8129.2	8414.9	8874.2	9756.2	10939.3	12494.9	14733.8	17818.0	21770.6	23225.8	21255.3
72.5°	4045.4	4199.7	4483.4	5045.1	5940.6	7202.8	9233.2	12197.7	15694.9	17030.5	15229.8
75°	1374.1	1445.6	1493.8	1677.2	1960.9	2456.9	3466.3	5332.6	8135.0	9752.4	8019.2
77.5°	793.2	795.1	828.0	860.8	909.0	963.1	1098.1	1441.7	2493.5	3541.6	2580.4
80°	513.4	511.5	538.5	563.5	596.4	623.4	631.2	667.8	770.1	912.9	816.4
82.5°	266.4	299.1	359.0	391.8	453.6	465.1	449.7	436.2	461.2	478.6	490.2
85°	146.7	127.4	191.1	247.0	274.0	277.9	277.9	262.5	272.1	266.4	289.5
87.5°	67.5	61.8	75.3	121.6	129.3	110.0	115.8	102.3	73.3	71.4	81.0
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°	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3	4182.3
2.5°	4163.0	4164.9	4164.9	4170.8	4172.7	4176.6	4180.4	4182.3
5°	4130.3	4136.0	4132.2	4137.9	4137.9	4141.8	4141.8	4143.8
7.5°	4082.0	4087.8	4087.8	4087.8	4085.9	4091.6	4091.6	4091.6
10°	4031.8	4035.6	4033.7	4029.9	4026.0	4031.8	4029.9	4028.0
12.5°	4016.4	4006.7	3999.0	3995.1	3987.5	3989.3	3983.6	3983.6
15°	4026.0	4008.6	3995.1	3989.3	3981.6	3977.7	3973.9	3975.8
17.5°	4051.1	4029.9	4012.5	4002.8	3993.2	3987.5	3979.7	3981.6
20°	4095.5	4070.4	4045.4	4026.0	4008.6	3999.0	3993.2	3991.2
22.5°	4161.2	4124.4	4087.8	4058.9	4035.6	4022.1	4016.4	4012.5
25°	4236.3	4195.8	4153.4	4120.5	4097.4	4080.0	4068.5	4068.5
27.5°	4331.0	4298.1	4259.6	4220.9	4199.7	4182.3	4174.7	4170.8
30°	4489.2	4458.3	4427.4	4390.8	4363.8	4346.4	4332.9	4321.4
32.5°	4691.9	4666.8	4641.7	4614.6	4589.6	4566.5	4545.2	4535.6
35°	4977.5	4958.2	4940.9	4910.0	4900.3	4886.8	4875.2	4865.6
37.5°	5371.2	5363.5	5363.5	5330.7	5323.0	5317.2	5305.6	5307.6
40°	5888.5	5896.2	5886.6	5875.0	5869.2	5853.7	5853.7	5867.2
42.5°	6500.3	6506.1	6527.3	6508.0	6529.3	6510.0	6498.4	6508.0
45°	7210.6	7231.8	7274.2	7255.0	7268.5	7235.6	7195.1	7197.1
47.5°	8007.7	8027.0	8044.3	8030.8	8032.7	7978.7	7924.7	7911.1
50°	8835.6	8843.3	8853.0	8833.7	8837.6	8777.7	8716.0	8717.9
52.5°	9654.0	9690.6	9729.2	9677.1	9665.6	9597.9	9511.1	9476.4
55°	10590.0	10642.2	10597.8	10507.0	10416.3	10325.6	10211.7	10192.4
57.5°	11744.2	11655.4	11516.4	11344.6	11219.2	11091.9	10976.1	10927.8
60°	13349.9	13016.0	12765.1	12510.4	12350.2	12193.9	12041.4	12018.2
62.5°	15619.6	15042.6	14542.7	14015.8	13585.4	13249.6	12981.3	12906.1
65°	18464.5	17100.0	15916.8	14812.8	13853.6	13129.9	12674.5	12473.7
67.5°	19688.1	16993.8	14965.4	13398.2	12143.7	11267.4	10775.3	10530.2
70°	17300.7	14093.0	11887.0	10317.9	9175.3	8241.2	7795.3	7532.9
72.5°	11902.4	8964.9	7088.9	5786.2	4873.3	4091.6	3782.9	3759.7
75°	5344.2	3539.6	2439.5	1879.9	1582.6	1376.1	1312.4	1264.2
77.5°	1495.8	1105.9	986.2	922.6	860.8	789.4	762.4	768.1
80°	727.6	687.1	660.1	619.5	563.5	503.7	476.7	488.3
82.5°	482.5	476.7	494.1	465.1	384.1	326.2	274.0	250.9
85°	293.4	297.3	303.0	304.9	258.6	181.5	123.5	138.9
87.5°	115.8	133.2	144.7	150.6	140.9	86.8	69.5	71.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)