

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: P268806

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-09-LED-U-5NQ-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31421.1 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G2

Input Watts (W): 290  
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

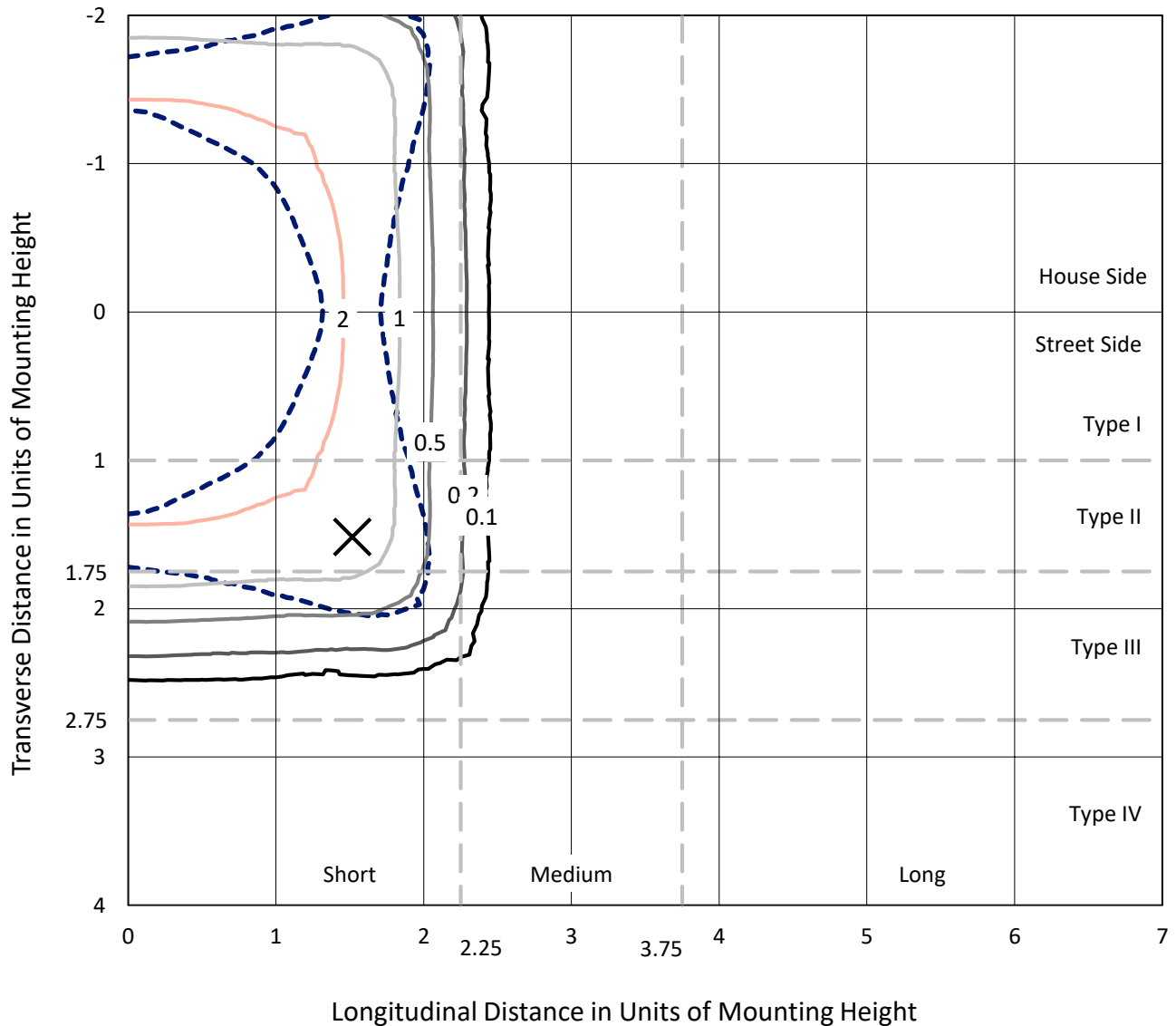


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

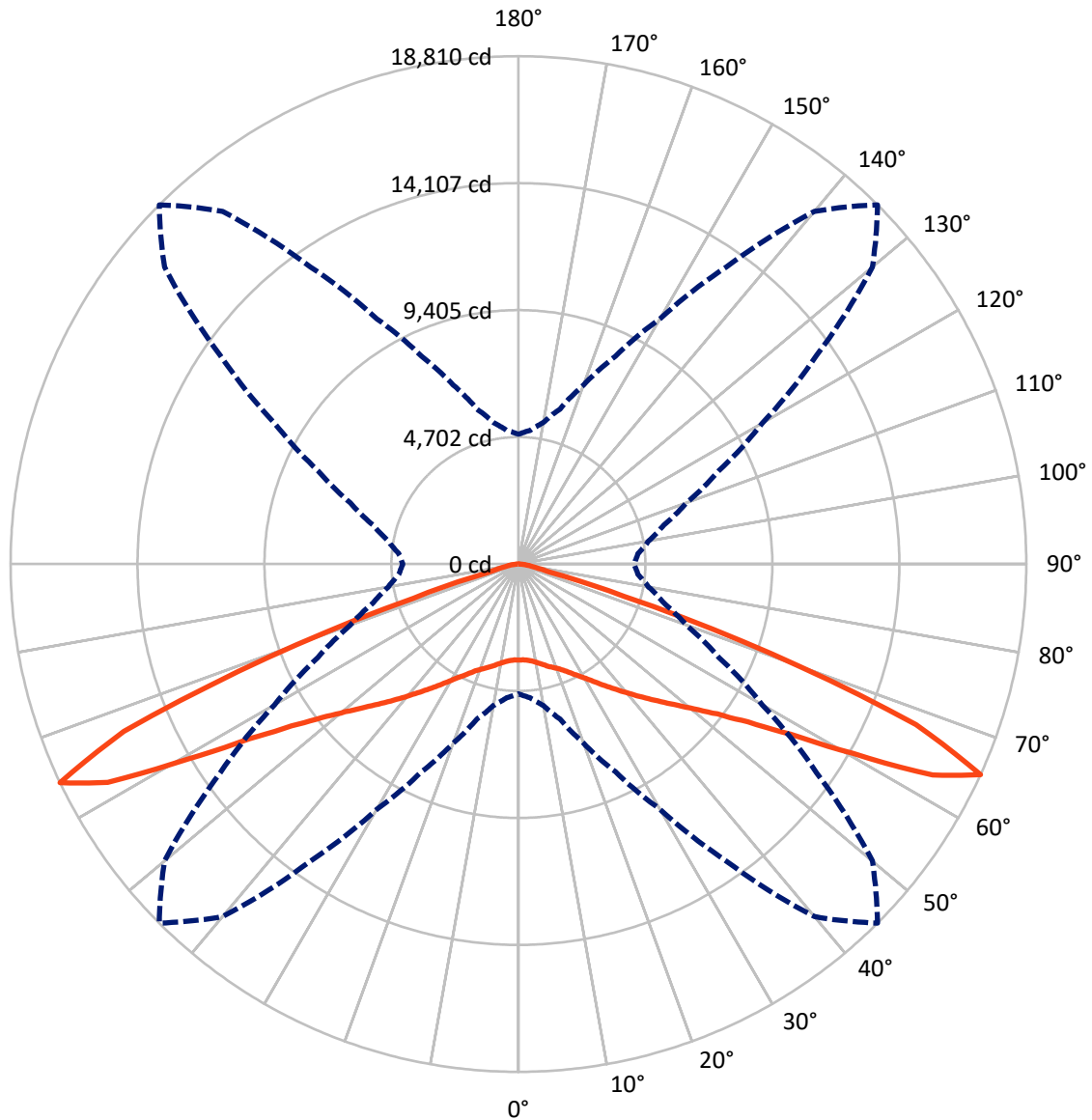


Based on 30 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15710.6	0.0	15710.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15710.6	0.0	15710.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31421.1	0.0	31421.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.5	1.1
10°-20°	1111.4	3.5
20°-30°	2078.1	6.6
30°-40°	3514.6	11.2
40°-50°	5746.7	18.3
50°-60°	9138.2	29.1
60°-70°	8260.4	26.3
70°-80°	1045.4	3.3
80°-90°	179.8	0.6
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°	31421.1	100.0
0°-180°	31421.1	100.0



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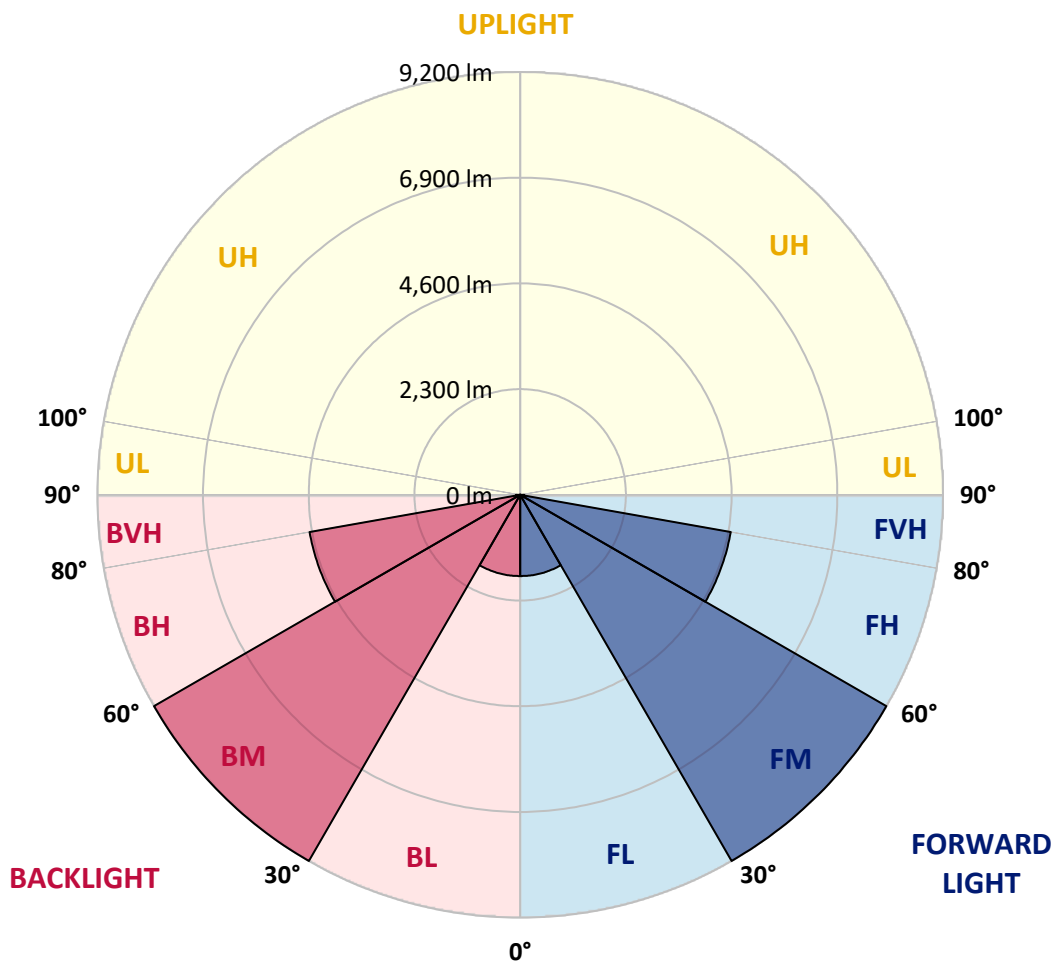
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1768.0	5.6			
FM	(30°-60°)	9199.8	29.3			
FH	(60°-80°)	4652.9	14.8			G2/5000
FVH	(80°-90°)	89.9	0.3			G1/100
BL	(0°-30°)	1768.0	5.6	B3/2500		
BM	(30°-60°)	9199.8	29.3	B5		
BH	(60°-80°)	4652.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	89.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3
2.5°	3558.2	3561.2	3564.1	3561.2	3564.1	3559.8	3556.7	3561.2	3556.7	3552.3	3555.3
5°	3589.2	3590.6	3590.6	3586.3	3590.6	3587.7	3583.2	3589.2	3584.7	3580.4	3583.2
7.5°	3640.7	3646.6	3642.2	3637.7	3640.7	3637.7	3634.8	3636.2	3634.8	3630.4	3631.8
10°	3709.8	3714.2	3711.3	3709.8	3712.8	3711.3	3708.4	3706.9	3708.4	3703.9	3703.9
12.5°	3793.7	3792.3	3790.8	3792.3	3796.6	3796.6	3795.2	3796.6	3799.7	3801.1	3798.2
15°	3876.1	3879.2	3879.2	3879.2	3888.0	3895.2	3899.6	3902.5	3908.4	3910.0	3904.0
17.5°	3979.1	3979.1	3977.6	3979.1	3987.9	3999.8	4004.1	4010.0	4016.0	4020.4	4013.0
20°	4093.9	4096.9	4096.9	4099.9	4111.6	4124.7	4124.7	4127.7	4124.7	4127.7	4123.3
22.5°	4233.7	4242.5	4242.5	4244.0	4255.8	4272.0	4267.6	4272.0	4264.7	4270.5	4264.7
25°	4416.2	4429.5	4426.5	4426.5	4435.3	4445.6	4447.1	4456.0	4454.4	4461.8	4457.4
27.5°	4622.1	4642.8	4648.6	4647.2	4653.1	4663.5	4666.3	4676.7	4670.7	4676.7	4673.7
30°	4869.4	4878.2	4890.1	4894.4	4901.8	4912.1	4912.1	4913.5	4906.3	4915.0	4919.5
32.5°	5125.5	5141.7	5153.4	5179.9	5193.2	5200.6	5199.1	5202.1	5194.7	5206.4	5215.3
35°	5463.9	5475.7	5494.8	5515.5	5533.1	5531.7	5527.2	5528.7	5528.7	5538.9	5547.8
37.5°	5871.6	5874.6	5899.4	5929.0	5937.7	5929.0	5902.5	5896.6	5883.4	5896.6	5911.2
40°	6302.8	6313.1	6363.1	6382.2	6386.6	6370.4	6332.2	6310.1	6280.7	6296.8	6317.5
42.5°	6754.5	6775.1	6820.7	6854.5	6869.2	6859.0	6806.0	6772.2	6734.0	6742.8	6763.3
45°	7254.8	7279.9	7344.6	7377.1	7405.0	7388.7	7337.3	7285.8	7225.4	7229.7	7262.2
47.5°	7814.0	7839.1	7923.0	7977.4	7992.1	7989.2	7931.8	7861.2	7778.8	7775.8	7803.8
50°	8441.0	8465.9	8570.4	8654.4	8697.0	8692.5	8624.8	8524.8	8424.8	8426.2	8461.6
52.5°	9053.1	9084.0	9193.0	9337.2	9421.1	9481.3	9440.2	9346.0	9223.8	9226.9	9259.1
55°	9627.0	9678.5	9803.7	9999.4	10155.2	10324.6	10373.1	10370.2	10296.6	10317.3	10349.6
57.5°	9905.2	9981.6	10174.5	10483.5	10801.3	11145.7	11437.1	11654.9	11747.6	11887.5	11855.0
60°	9378.3	9500.5	9784.5	10239.2	10867.5	11585.7	12355.3	13107.3	13748.9	14233.0	13954.9
62.5°	7678.6	7837.6	8181.9	8764.8	9715.3	10864.6	12337.7	14115.3	16052.0	17220.4	16386.0
65°	4804.7	4969.6	5319.8	5943.6	7056.1	8485.1	10483.5	13429.7	17048.2	18809.6	17111.5
67.5°	1873.3	1963.1	2152.9	2551.7	3387.6	4659.0	6664.7	10008.1	14336.1	15879.8	14069.8
70°	938.9	947.7	983.0	1056.5	1236.1	1605.5	2442.9	4639.8	8221.6	9930.1	7925.8
72.5°	678.4	679.8	697.5	730.0	787.3	869.6	1028.6	1420.1	2673.8	4086.6	2506.1
75°	519.5	525.4	535.7	553.4	584.2	625.4	682.8	818.1	1013.8	1175.8	988.9
77.5°	400.3	412.1	419.4	435.6	454.7	482.7	498.9	550.4	640.1	674.0	663.7
80°	304.6	314.9	331.1	344.3	357.5	370.8	364.9	388.4	435.6	463.5	448.9
82.5°	194.3	206.0	253.1	264.9	270.7	279.6	269.3	270.7	291.4	309.0	291.4
85°	125.0	132.4	160.3	175.1	176.5	182.4	178.0	167.8	167.8	153.0	172.1
87.5°	57.4	58.8	72.1	85.3	88.4	79.5	78.1	75.1	60.4	57.4	61.9
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°	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3	3555.3
2.5°	3553.9	3556.7	3558.2	3562.7	3564.1	3564.1	3565.6	3568.5
5°	3581.8	3586.3	3587.7	3593.6	3595.0	3593.6	3596.5	3598.0
7.5°	3631.8	3639.3	3642.2	3648.0	3643.6	3649.5	3651.0	3651.0
10°	3705.4	3712.8	3714.2	3720.2	3717.1	3720.2	3720.2	3717.1
12.5°	3802.5	3804.1	3799.7	3804.1	3798.2	3801.1	3796.6	3793.7
15°	3910.0	3905.6	3895.2	3895.2	3886.4	3888.0	3886.4	3885.0
17.5°	4014.4	4005.6	3998.3	3995.3	3987.9	3986.5	3982.0	3982.0
20°	4129.1	4124.7	4120.3	4114.4	4107.2	4099.9	4098.3	4101.3
22.5°	4267.6	4266.1	4266.1	4263.1	4252.8	4245.5	4241.1	4241.1
25°	4453.0	4439.8	4439.8	4438.3	4433.9	4429.5	4420.6	4425.1
27.5°	4661.9	4654.6	4660.4	4659.0	4654.6	4654.6	4648.6	4648.6
30°	4919.5	4916.6	4925.3	4918.0	4903.3	4901.8	4895.9	4888.5
32.5°	5216.7	5213.9	5227.0	5218.3	5194.7	5181.5	5169.7	5163.7
35°	5547.8	5549.3	5565.4	5559.6	5533.1	5524.2	5503.6	5500.7
37.5°	5909.8	5933.3	5961.3	5967.3	5945.2	5939.2	5917.1	5905.4
40°	6335.1	6366.0	6408.7	6419.0	6395.5	6391.0	6360.1	6343.9
42.5°	6788.3	6841.3	6894.3	6903.1	6879.6	6856.0	6826.6	6814.8
45°	7294.5	7357.8	7427.0	7444.8	7409.4	7381.5	7343.1	7343.1
47.5°	7862.7	7942.0	8020.1	8068.7	8036.2	8006.9	7961.1	7931.8
50°	8533.7	8642.6	8744.1	8794.0	8742.7	8686.7	8607.2	8580.7
52.5°	9375.4	9493.1	9581.4	9554.9	9475.4	9397.4	9310.7	9275.3
55°	10449.7	10489.4	10489.4	10389.3	10230.3	10099.5	9962.6	9916.8
57.5°	11793.2	11640.1	11404.7	11105.9	10730.8	10404.0	10183.2	10078.9
60°	13372.2	12636.4	11804.9	10988.2	10317.3	9763.9	9435.7	9285.6
62.5°	14424.4	12499.6	10833.6	9522.6	8557.3	7890.6	7437.3	7260.7
65°	13481.0	10424.7	8193.7	6625.0	5572.8	4894.4	4445.6	4280.9
67.5°	9874.3	6532.4	4363.2	3127.1	2291.2	1827.7	1643.8	1567.3
70°	4432.3	2300.1	1409.8	1100.8	949.1	871.1	837.3	825.5
72.5°	1336.1	966.8	815.2	735.8	675.4	637.2	609.2	606.3
75°	806.4	671.0	595.9	549.0	510.6	479.8	465.1	460.7
77.5°	563.5	493.0	457.6	423.8	394.4	370.8	357.5	347.3
80°	395.9	361.9	345.8	326.8	307.6	285.5	266.3	257.5
82.5°	264.9	257.5	257.5	245.7	229.5	208.9	170.7	161.9
85°	170.7	169.2	172.1	167.8	155.9	133.8	110.4	104.6
87.5°	79.5	80.9	89.8	88.4	85.3	70.6	56.0	53.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)