

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: P268726

Luminaire Tested: **GAN-AF-08-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268726  
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-08-LED-U-5NQ-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 28168.5 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

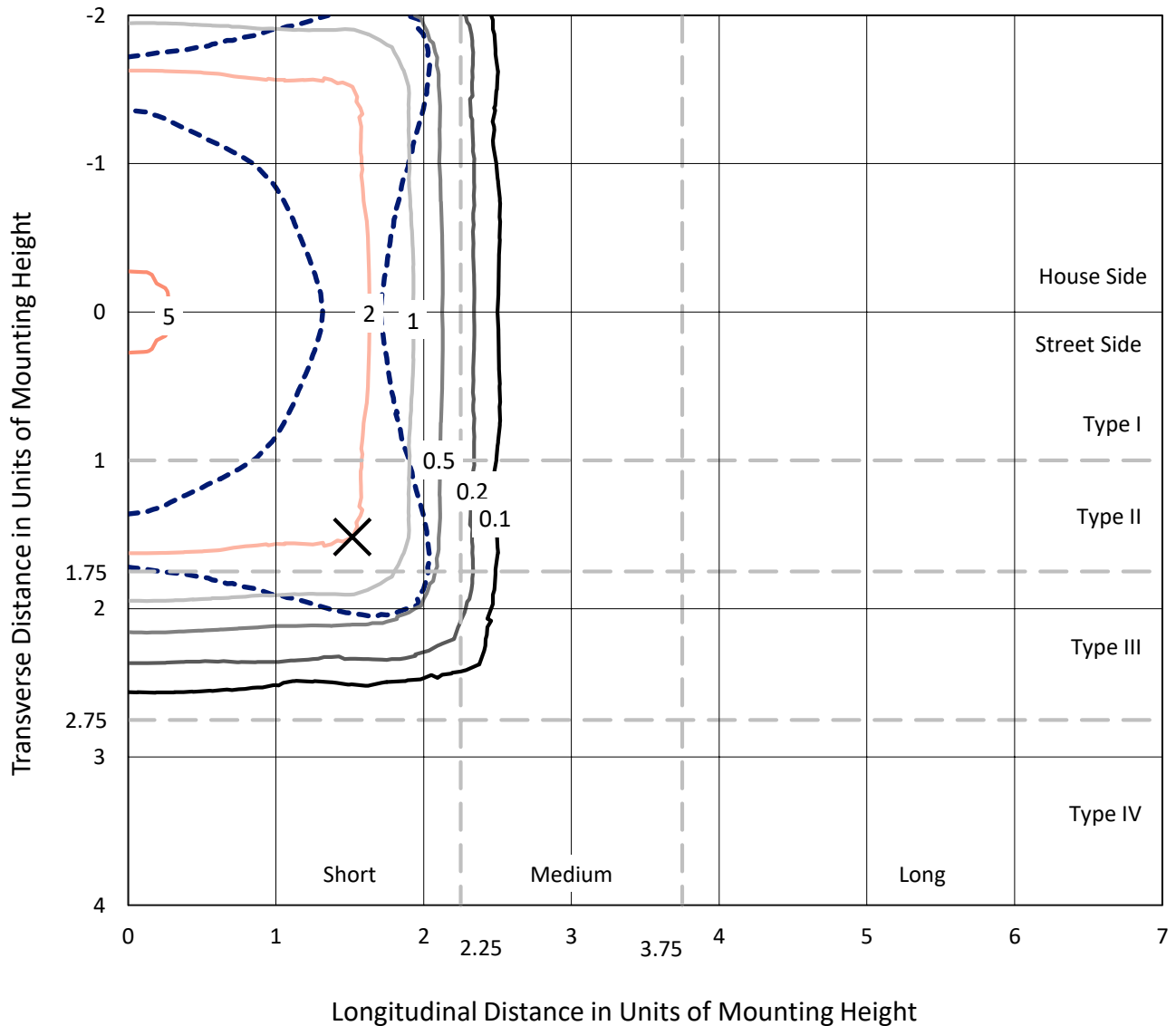


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

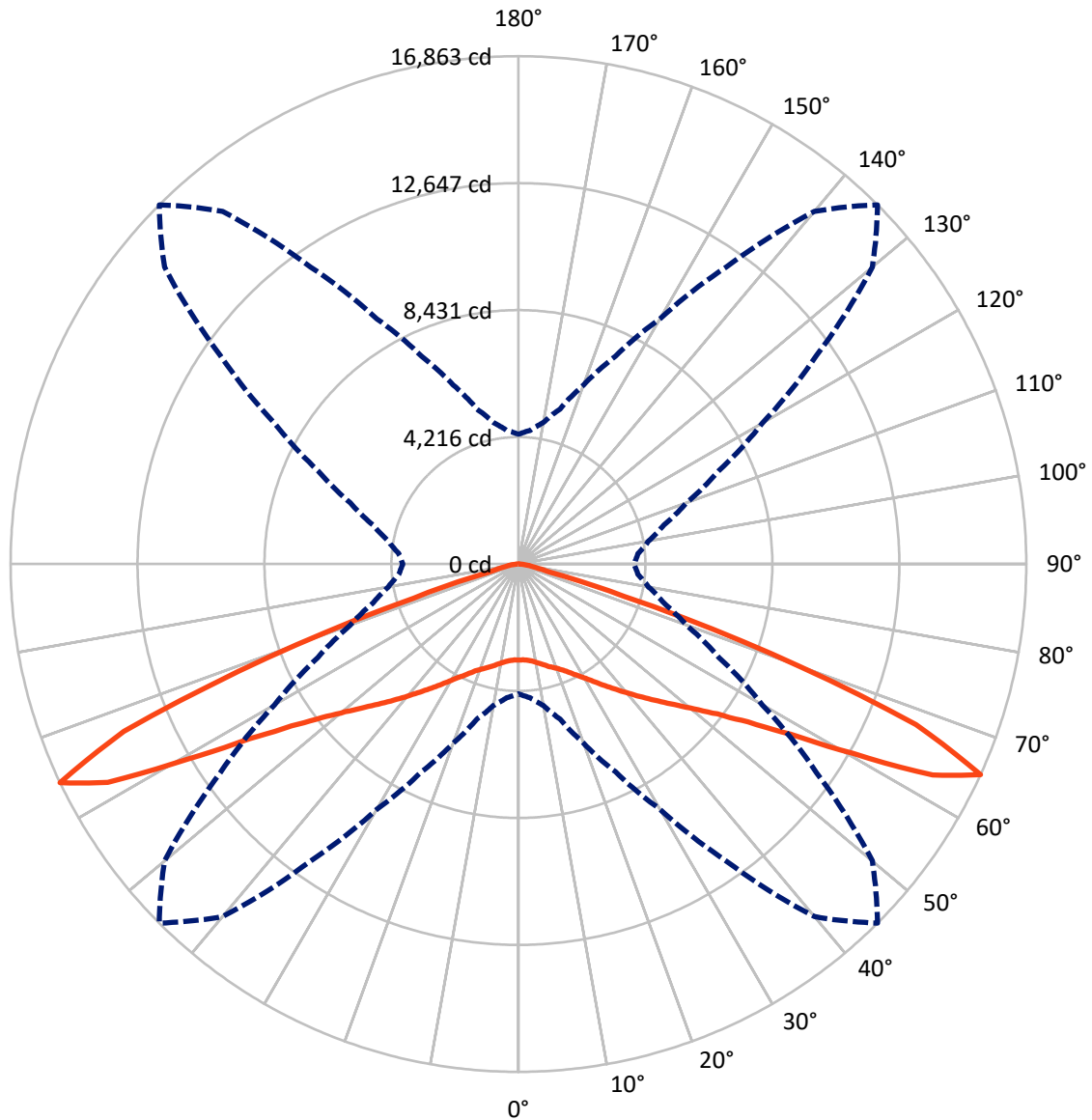


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type V - Short - Full Cutoff

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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	14084.3	0.0	14084.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14084.3	0.0	14084.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28168.5	0.0	28168.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.7	1.1
10°-20°	996.3	3.5
20°-30°	1863.0	6.6
30°-40°	3150.8	11.2
40°-50°	5151.9	18.3
50°-60°	8192.3	29.1
60°-70°	7405.3	26.3
70°-80°	937.2	3.3
80°-90°	161.2	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°	28168.5	100.0
0°-180°	28168.5	100.0



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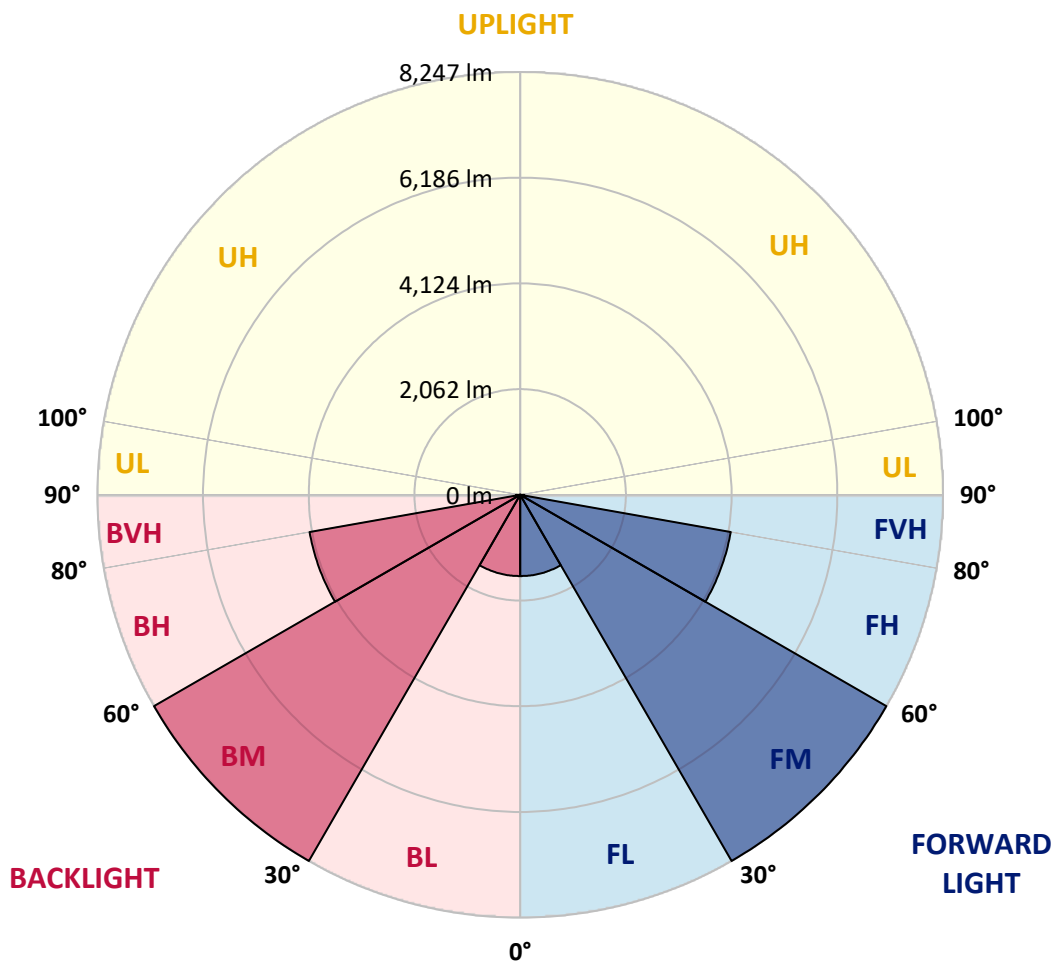
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1585.0	5.6			
FM	(30°-60°)	8247.5	29.3			
FH	(60°-80°)	4171.2	14.8			G2/5000
FVH	(80°-90°)	80.6	0.3			G1/100
BL	(0°-30°)	1585.0	5.6	B3/2500		
BM	(30°-60°)	8247.5	29.3	B4/8500		
BH	(60°-80°)	4171.2	14.8	B4/5000		G2/5000
BVH	(80°-90°)	80.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2
2.5°	3189.9	3192.5	3195.2	3192.5	3195.2	3191.3	3188.7	3192.5	3188.7	3184.6	3187.2
5°	3217.5	3218.9	3218.9	3214.9	3218.9	3216.3	3212.3	3217.5	3213.6	3209.7	3212.3
7.5°	3263.8	3269.1	3265.1	3261.1	3263.8	3261.1	3258.5	3259.8	3258.5	3254.6	3255.8
10°	3325.9	3329.7	3327.1	3325.9	3328.4	3327.1	3324.4	3323.2	3324.4	3320.6	3320.6
12.5°	3401.1	3399.6	3398.4	3399.6	3403.7	3403.7	3402.3	3403.7	3406.3	3407.6	3404.9
15°	3474.9	3477.5	3477.5	3477.5	3485.5	3492.0	3495.9	3498.5	3503.8	3505.2	3499.9
17.5°	3567.2	3567.2	3565.9	3567.2	3575.2	3585.7	3589.6	3594.9	3600.1	3604.2	3597.5
20°	3670.1	3672.8	3672.8	3675.3	3685.9	3697.9	3697.9	3700.5	3697.9	3700.5	3696.5
22.5°	3795.5	3803.3	3803.3	3804.7	3815.2	3829.7	3825.8	3829.7	3823.1	3828.4	3823.1
25°	3959.0	3970.9	3968.3	3968.3	3976.2	3985.4	3986.8	3994.7	3993.3	4000.0	3996.0
27.5°	4143.7	4162.1	4167.4	4166.2	4171.4	4180.7	4183.2	4192.5	4187.3	4192.5	4190.0
30°	4365.4	4373.3	4383.8	4387.9	4394.4	4403.6	4403.6	4405.0	4398.3	4406.2	4410.1
32.5°	4594.9	4609.5	4620.0	4643.7	4655.6	4662.3	4660.9	4663.6	4657.0	4667.5	4675.4
35°	4898.4	4908.9	4926.0	4944.5	4960.4	4959.1	4955.1	4956.4	4956.4	4965.7	4973.6
37.5°	5263.8	5266.5	5288.9	5315.2	5323.1	5315.2	5291.5	5286.2	5274.3	5286.2	5299.5
40°	5650.2	5659.5	5704.3	5721.6	5725.4	5711.0	5676.7	5656.8	5630.5	5644.9	5663.5
42.5°	6055.4	6073.8	6114.7	6145.0	6158.2	6149.0	6101.5	6071.1	6036.8	6044.8	6063.2
45°	6503.9	6526.2	6584.3	6613.3	6638.5	6623.9	6577.7	6531.5	6477.5	6481.5	6510.5
47.5°	7005.2	7027.6	7102.8	7151.5	7164.8	7162.1	7110.8	7047.4	6973.5	6970.8	6995.9
50°	7567.1	7589.6	7683.3	7758.4	7796.7	7792.7	7732.2	7642.4	7552.6	7553.9	7585.6
52.5°	8115.9	8143.7	8241.3	8370.5	8445.8	8499.9	8462.9	8378.5	8269.0	8271.7	8300.7
55°	8630.5	8676.5	8788.7	8964.2	9104.1	9255.7	9299.3	9296.6	9230.8	9249.2	9278.2
57.5°	8879.7	8948.3	9121.2	9398.2	9683.2	9991.8	10253.2	10448.4	10531.5	10656.9	10627.8
60°	8407.4	8517.0	8771.6	9179.3	9742.6	10386.4	11076.3	11750.5	12325.6	12759.6	12510.3
62.5°	6883.8	7026.3	7335.0	7857.4	8709.6	9740.0	11060.6	12654.2	14390.3	15437.7	14689.8
65°	4307.4	4455.1	4769.0	5328.3	6325.8	7606.8	9398.2	12039.4	15283.5	16862.5	15340.1
67.5°	1679.4	1759.9	1930.1	2287.5	3036.9	4176.7	5974.8	8972.1	12852.1	14235.9	12613.2
70°	841.7	849.5	881.2	947.3	1108.1	1439.3	2190.0	4159.5	7370.7	8902.3	7105.5
72.5°	608.2	609.5	625.3	654.3	705.8	779.6	922.1	1273.1	2397.0	3663.6	2246.8
75°	465.7	471.0	480.2	496.0	523.7	560.7	612.1	733.5	908.9	1054.2	886.5
77.5°	358.9	369.5	376.0	390.6	407.7	432.8	447.3	493.3	573.8	604.2	594.9
80°	273.1	282.2	296.8	308.7	320.5	332.5	327.2	348.4	390.6	415.6	402.4
82.5°	174.1	184.7	226.9	237.4	242.7	250.6	241.5	242.7	261.1	277.0	261.1
85°	112.2	118.8	143.8	157.1	158.3	163.6	159.5	150.3	150.3	137.3	154.4
87.5°	51.5	52.8	64.7	76.5	79.1	71.2	69.9	67.4	54.1	51.5	55.4
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°	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2	3187.2
2.5°	3186.0	3188.7	3189.9	3193.8	3195.2	3195.2	3196.4	3199.1
5°	3211.0	3214.9	3216.3	3221.6	3222.8	3221.6	3224.2	3225.5
7.5°	3255.8	3262.5	3265.1	3270.4	3266.4	3271.6	3273.1	3273.1
10°	3321.8	3328.4	3329.7	3335.0	3332.4	3335.0	3335.0	3332.4
12.5°	3408.9	3410.2	3406.3	3410.2	3404.9	3407.6	3403.7	3401.1
15°	3505.2	3501.2	3492.0	3492.0	3484.0	3485.5	3484.0	3482.8
17.5°	3598.9	3591.0	3584.3	3581.7	3575.2	3573.8	3569.9	3569.9
20°	3701.7	3697.9	3693.9	3688.6	3682.1	3675.3	3674.1	3676.8
22.5°	3825.8	3824.4	3824.4	3821.7	3812.5	3805.9	3802.0	3802.0
25°	3992.0	3980.1	3980.1	3978.9	3974.9	3970.9	3963.1	3966.9
27.5°	4179.4	4172.7	4178.0	4176.7	4172.7	4172.7	4167.4	4167.4
30°	4410.1	4407.5	4415.4	4408.9	4395.6	4394.4	4389.1	4382.6
32.5°	4676.7	4674.2	4686.0	4678.1	4657.0	4645.0	4634.4	4629.2
35°	4973.6	4974.9	4989.4	4984.1	4960.4	4952.4	4933.9	4931.3
37.5°	5298.1	5319.1	5344.2	5349.5	5329.7	5324.4	5304.8	5294.2
40°	5679.4	5707.0	5745.3	5754.5	5733.4	5729.5	5701.7	5687.2
42.5°	6085.7	6133.2	6180.7	6188.6	6167.5	6146.4	6120.0	6109.5
45°	6539.5	6596.3	6658.1	6674.0	6642.3	6617.4	6583.0	6583.0
47.5°	7048.7	7120.0	7189.9	7233.4	7204.3	7177.9	7137.0	7110.8
50°	7650.2	7747.9	7838.9	7883.7	7837.6	7787.4	7716.3	7692.5
52.5°	8404.9	8510.5	8589.6	8565.8	8494.6	8424.7	8346.8	8315.3
55°	9368.0	9403.5	9403.5	9313.8	9171.3	9053.9	8931.3	8890.3
57.5°	10572.4	10435.3	10224.1	9956.4	9619.9	9327.0	9129.1	9035.5
60°	11987.9	11328.3	10582.9	9850.8	9249.2	8753.2	8459.0	8324.5
62.5°	12931.2	11205.5	9712.3	8536.9	7671.3	7073.8	6667.4	6509.1
65°	12085.5	9345.4	7345.5	5939.2	4996.0	4387.9	3985.4	3837.6
67.5°	8852.1	5856.1	3911.5	2803.4	2054.1	1638.5	1473.6	1404.9
70°	3973.6	2062.0	1263.8	986.8	851.0	780.9	750.7	740.2
72.5°	1197.9	866.8	730.9	659.6	605.5	571.2	546.2	543.6
75°	723.0	601.5	534.3	492.1	457.7	430.1	416.9	413.0
77.5°	505.2	442.0	410.3	380.0	353.6	332.5	320.5	311.4
80°	354.9	324.6	310.1	292.8	275.7	255.9	238.8	230.9
82.5°	237.4	230.9	230.9	220.4	205.8	187.3	153.0	145.2
85°	153.0	151.8	154.4	150.3	139.9	120.1	99.0	93.7
87.5°	71.2	72.6	80.5	79.1	76.5	63.3	50.1	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)