

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: P299420

Luminaire Tested: **GAA-AF-05-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299420  
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: GAA-AF-05-LED-U-5NQ-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23898.7 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 210  
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

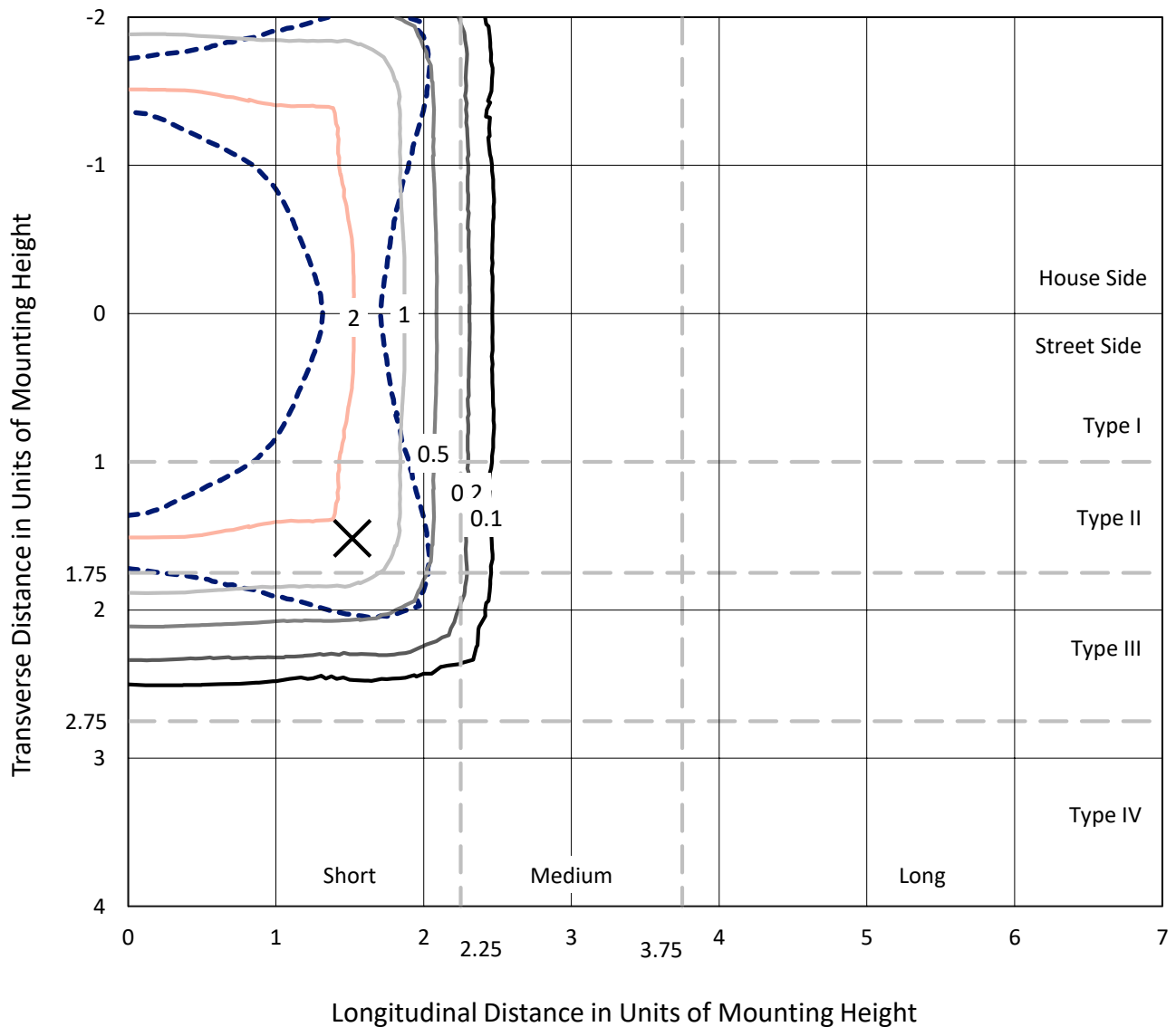


REPORT NUMBER: P299420

CATALOG NUMBER: GAA-AF-05-LED-U-5NQ-7030-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

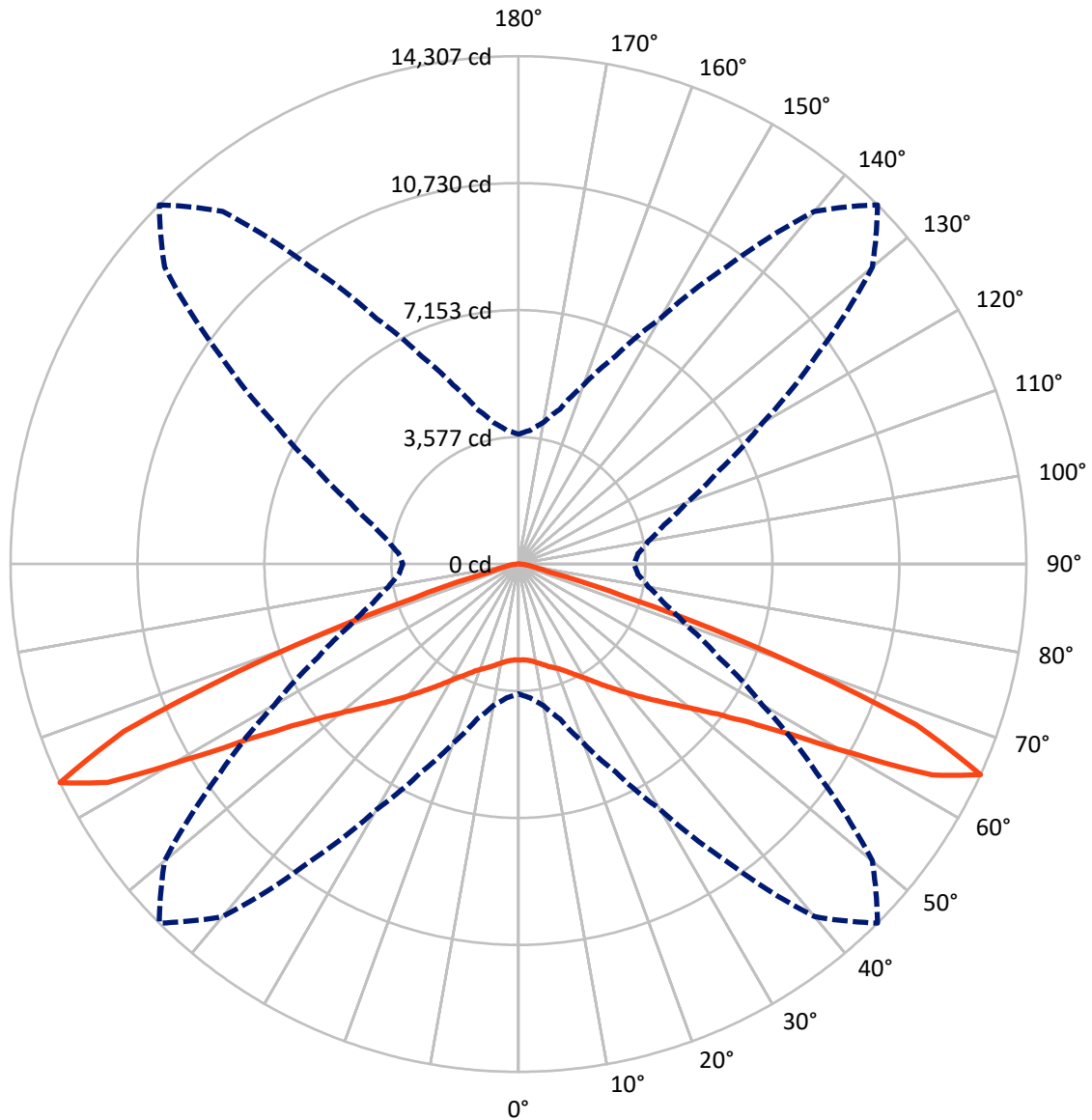


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P299420

CATALOG NUMBER: GAA-AF-05-LED-U-5NQ-7030-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P299420

CATALOG NUMBER: GAA-AF-05-LED-U-5NQ-7030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11949.3	0.0	11949.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11949.3	0.0	11949.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23898.7	0.0	23898.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.6	1.1
10°-20°	845.3	3.5
20°-30°	1580.6	6.6
30°-40°	2673.2	11.2
40°-50°	4370.9	18.3
50°-60°	6950.5	29.1
60°-70°	6282.8	26.3
70°-80°	795.1	3.3
80°-90°	136.8	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°	23898.7	100.0
0°-180°	23898.7	100.0



REPORT NUMBER: P299420

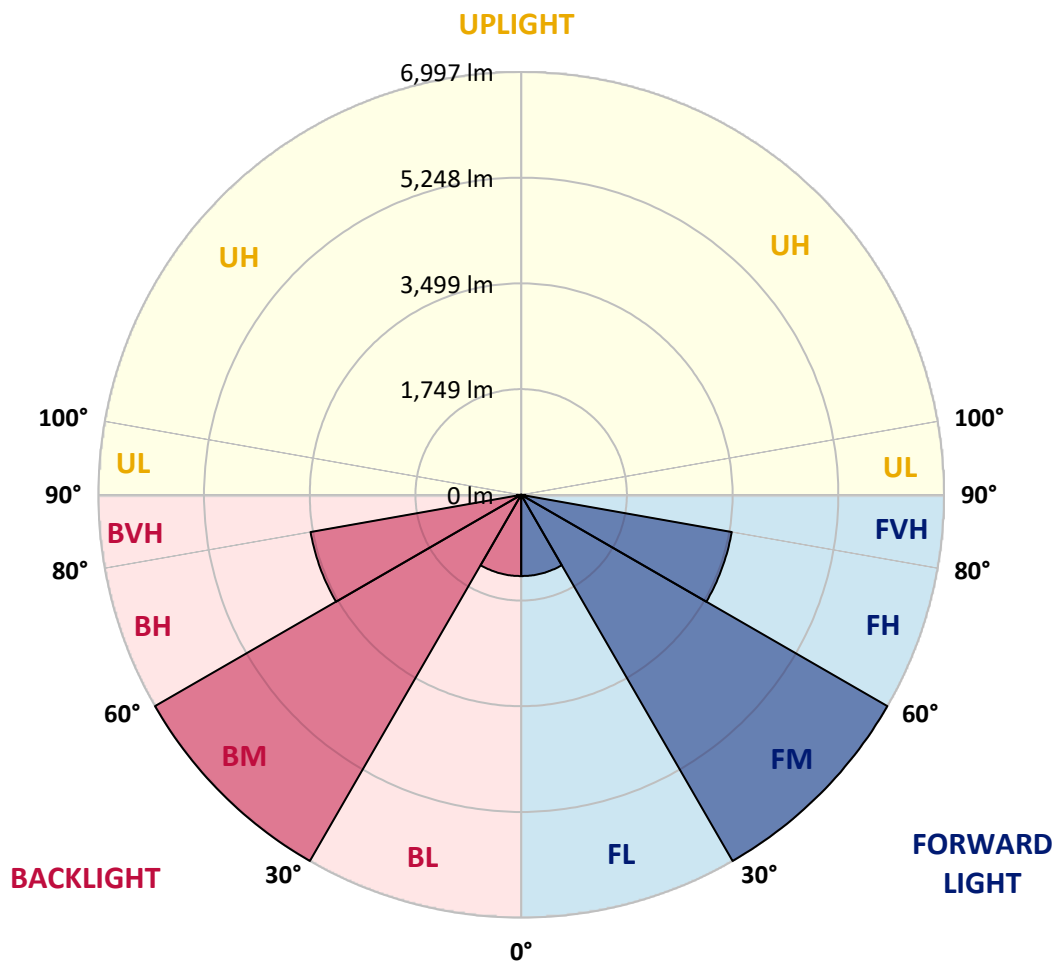
CATALOG NUMBER: GAA-AF-05-LED-U-5NQ-7030-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1344.7	5.6			
FM	(30°-60°)	6997.3	29.3			
FH	(60°-80°)	3538.9	14.8			G2/5000
FVH	(80°-90°)	68.4	0.3			G1/100
BL	(0°-30°)	1344.7	5.6	B3/2500		
BM	(30°-60°)	6997.3	29.3	B4/8500		
BH	(60°-80°)	3538.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	68.4	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





REPORT NUMBER: P299420

CATALOG NUMBER: GAA-AF-05-LED-U-5NQ-7030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2706.4	2708.6	2710.9	2708.6	2710.9	2707.5	2705.3	2708.6	2705.3	2701.9	2704.2
5°	2729.9	2731.0	2731.0	2727.7	2731.0	2728.8	2725.4	2729.9	2726.5	2723.2	2725.4
7.5°	2769.1	2773.5	2770.2	2766.8	2769.1	2766.8	2764.6	2765.7	2764.6	2761.2	2762.4
10°	2821.7	2825.0	2822.8	2821.7	2823.9	2822.8	2820.6	2819.4	2820.6	2817.2	2817.2
12.5°	2885.5	2884.4	2883.2	2884.4	2887.7	2887.7	2886.6	2887.7	2889.9	2891.1	2888.8
15°	2948.2	2950.4	2950.4	2950.4	2957.1	2962.7	2966.1	2968.3	2972.8	2973.9	2969.4
17.5°	3026.5	3026.5	3025.4	3026.5	3033.2	3042.2	3045.5	3050.0	3054.5	3057.8	3052.2
20°	3113.8	3116.0	3116.0	3118.3	3127.2	3137.3	3137.3	3139.5	3137.3	3139.5	3136.2
22.5°	3220.1	3226.8	3226.8	3228.0	3236.9	3249.2	3245.9	3249.2	3243.6	3248.1	3243.6
25°	3358.9	3369.0	3366.8	3366.8	3373.5	3381.3	3382.4	3389.1	3388.0	3393.6	3390.3
27.5°	3515.6	3531.3	3535.8	3534.6	3539.1	3547.0	3549.2	3557.0	3552.6	3557.0	3554.8
30°	3703.7	3710.4	3719.3	3722.7	3728.3	3736.1	3736.1	3737.2	3731.6	3738.4	3741.7
32.5°	3898.4	3910.7	3919.7	3939.8	3949.9	3955.5	3954.4	3956.6	3951.0	3960.0	3966.7
35°	4155.8	4164.8	4179.3	4195.0	4208.4	4207.3	4204.0	4205.1	4205.1	4212.9	4219.6
37.5°	4465.9	4468.1	4487.1	4509.5	4516.2	4509.5	4489.4	4484.9	4474.8	4484.9	4496.1
40°	4793.8	4801.7	4839.7	4854.3	4857.6	4845.3	4816.2	4799.4	4777.0	4789.3	4805.0
42.5°	5137.4	5153.1	5187.8	5213.5	5224.7	5216.9	5176.6	5150.9	5121.8	5128.5	5144.2
45°	5518.0	5537.0	5586.3	5610.9	5632.2	5619.8	5580.7	5541.5	5495.6	5499.0	5523.6
47.5°	5943.3	5962.3	6026.1	6067.5	6078.7	6076.5	6032.9	5979.1	5916.4	5914.2	5935.5
50°	6420.1	6439.1	6518.6	6582.4	6614.9	6611.5	6560.0	6483.9	6407.8	6408.9	6435.8
52.5°	6885.7	6909.2	6992.1	7101.8	7165.6	7211.4	7180.1	7108.5	7015.6	7017.8	7042.4
55°	7322.2	7361.4	7456.6	7605.4	7724.1	7852.8	7889.7	7887.5	7831.5	7847.2	7871.8
57.5°	7533.8	7592.0	7738.6	7973.7	8215.4	8477.3	8698.9	8864.6	8935.1	9041.4	9016.8
60°	7133.1	7226.0	7442.0	7787.9	8265.8	8812.0	9397.4	9969.3	10457.3	10825.6	10614.0
62.5°	5840.3	5961.2	6223.1	6666.4	7389.4	8263.6	9383.9	10736.0	12209.0	13097.7	12463.0
65°	3654.4	3779.8	4046.2	4520.7	5366.9	6453.7	7973.7	10214.4	12966.7	14306.5	13014.8
67.5°	1424.8	1493.1	1637.5	1940.8	2576.6	3543.6	5069.2	7612.1	10903.9	12078.0	10701.3
70°	714.1	720.8	747.7	803.6	940.2	1221.1	1858.0	3529.1	6253.3	7552.8	6028.4
72.5°	516.0	517.1	530.5	555.2	598.8	661.5	782.4	1080.1	2033.7	3108.2	1906.1
75°	395.1	399.6	407.4	420.8	444.3	475.7	519.3	622.3	771.2	894.3	752.1
77.5°	304.4	313.4	319.0	331.3	345.9	367.1	379.4	418.6	486.9	512.6	504.8
80°	231.7	239.5	251.8	261.9	272.0	282.1	277.6	295.5	331.3	352.6	341.4
82.5°	147.7	156.7	192.5	201.5	205.9	212.7	204.8	205.9	221.6	235.0	221.6
85°	95.1	100.7	122.0	133.2	134.3	138.8	135.4	127.6	127.6	116.4	131.0
87.5°	43.7	44.8	54.8	64.9	67.2	60.4	59.3	57.1	45.9	43.7	47.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299420

CATALOG NUMBER: GAA-AF-05-LED-U-5NQ-7030-800

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2703.0	2705.3	2706.4	2709.7	2710.9	2710.9	2712.0	2714.2
5°	2724.3	2727.7	2728.8	2733.3	2734.4	2733.3	2735.5	2736.6
7.5°	2762.4	2767.9	2770.2	2774.7	2771.3	2775.8	2776.9	2776.9
10°	2818.3	2823.9	2825.0	2829.5	2827.3	2829.5	2829.5	2827.3
12.5°	2892.2	2893.3	2889.9	2893.3	2888.8	2891.1	2887.7	2885.5
15°	2973.9	2970.5	2962.7	2962.7	2956.0	2957.1	2956.0	2954.9
17.5°	3053.4	3046.6	3041.0	3038.8	3033.2	3032.1	3028.7	3028.7
20°	3140.7	3137.3	3133.9	3129.5	3123.9	3118.3	3117.2	3119.4
22.5°	3245.9	3244.8	3244.8	3242.5	3234.7	3229.1	3225.7	3225.7
25°	3386.9	3376.8	3376.8	3375.7	3372.4	3369.0	3362.3	3365.6
27.5°	3545.8	3540.2	3544.7	3543.6	3540.2	3540.2	3535.8	3535.8
30°	3741.7	3739.5	3746.2	3740.6	3729.4	3728.3	3723.8	3718.2
32.5°	3967.8	3965.6	3975.6	3968.9	3951.0	3940.9	3932.0	3927.5
35°	4219.6	4220.8	4233.1	4228.6	4208.4	4201.7	4186.1	4183.8
37.5°	4495.0	4512.9	4534.2	4538.6	4521.8	4517.4	4500.6	4491.6
40°	4818.4	4842.0	4874.4	4882.2	4864.3	4861.0	4837.5	4825.2
42.5°	5163.2	5203.5	5243.8	5250.5	5232.6	5214.7	5192.3	5183.3
45°	5548.2	5596.3	5648.9	5662.4	5635.5	5614.2	5585.1	5585.1
47.5°	5980.2	6040.7	6100.0	6136.9	6112.3	6089.9	6055.2	6032.9
50°	6490.6	6573.5	6650.7	6688.7	6649.6	6607.0	6546.6	6526.4
52.5°	7130.9	7220.4	7287.6	7267.4	7207.0	7147.6	7081.6	7054.7
55°	7947.9	7978.1	7978.1	7902.0	7781.1	7681.5	7577.4	7542.7
57.5°	8969.8	8853.4	8674.3	8447.1	8161.7	7913.2	7745.3	7665.9
60°	10170.8	9611.2	8978.8	8357.6	7847.2	7426.3	7176.7	7062.6
62.5°	10971.1	9507.1	8240.0	7242.8	6508.5	6001.5	5656.8	5522.5
65°	10253.6	7928.9	6232.1	5038.9	4238.7	3722.7	3381.3	3255.9
67.5°	7510.3	4968.4	3318.6	2378.4	1742.7	1390.1	1250.2	1192.0
70°	3371.2	1749.4	1072.3	837.2	721.9	662.6	636.9	627.9
72.5°	1016.3	735.4	620.1	559.6	513.7	484.6	463.4	461.1
75°	613.4	510.4	453.3	417.5	388.4	364.9	353.7	350.3
77.5°	428.7	375.0	348.1	322.3	300.0	282.1	272.0	264.1
80°	301.1	275.3	263.0	248.5	233.9	217.1	202.6	195.9
82.5°	201.5	195.9	195.9	186.9	174.6	158.9	129.8	123.1
85°	129.8	128.7	131.0	127.6	118.6	101.9	83.9	79.5
87.5°	60.4	61.6	68.3	67.2	64.9	53.7	42.5	40.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)