

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: P299829

Luminaire Tested: **GAA-AF-03-LED-U-SL3-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-03-LED-U-SL3-8030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

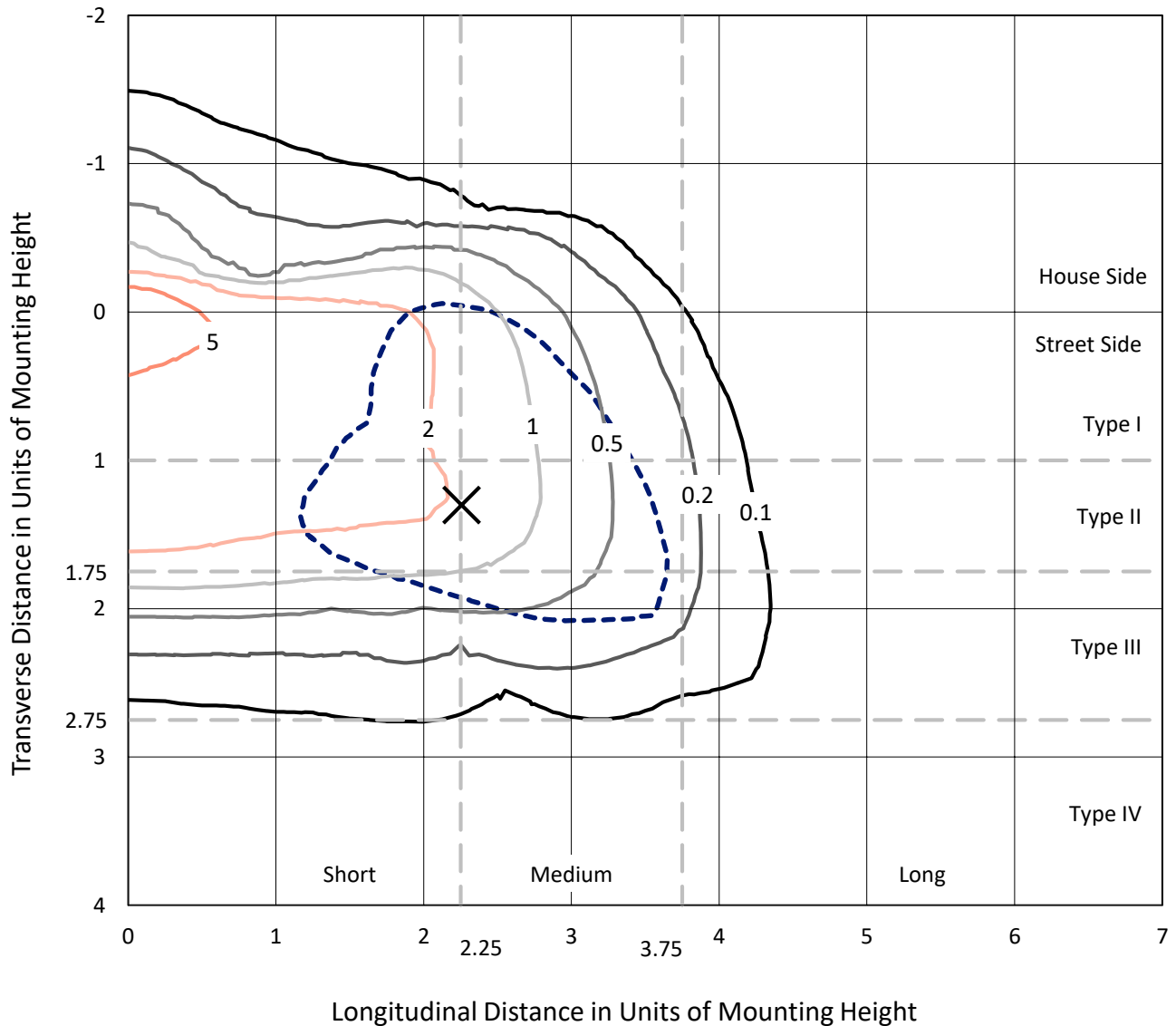
Lumens per Lamp: N/A  
Luminaire Lumens: 14779.7 lumens  
Efficiency: N/A  
Efficacy: 89.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (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: P299829  
 CATALOG NUMBER: GAA-AF-03-LED-U-SL3-8030

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

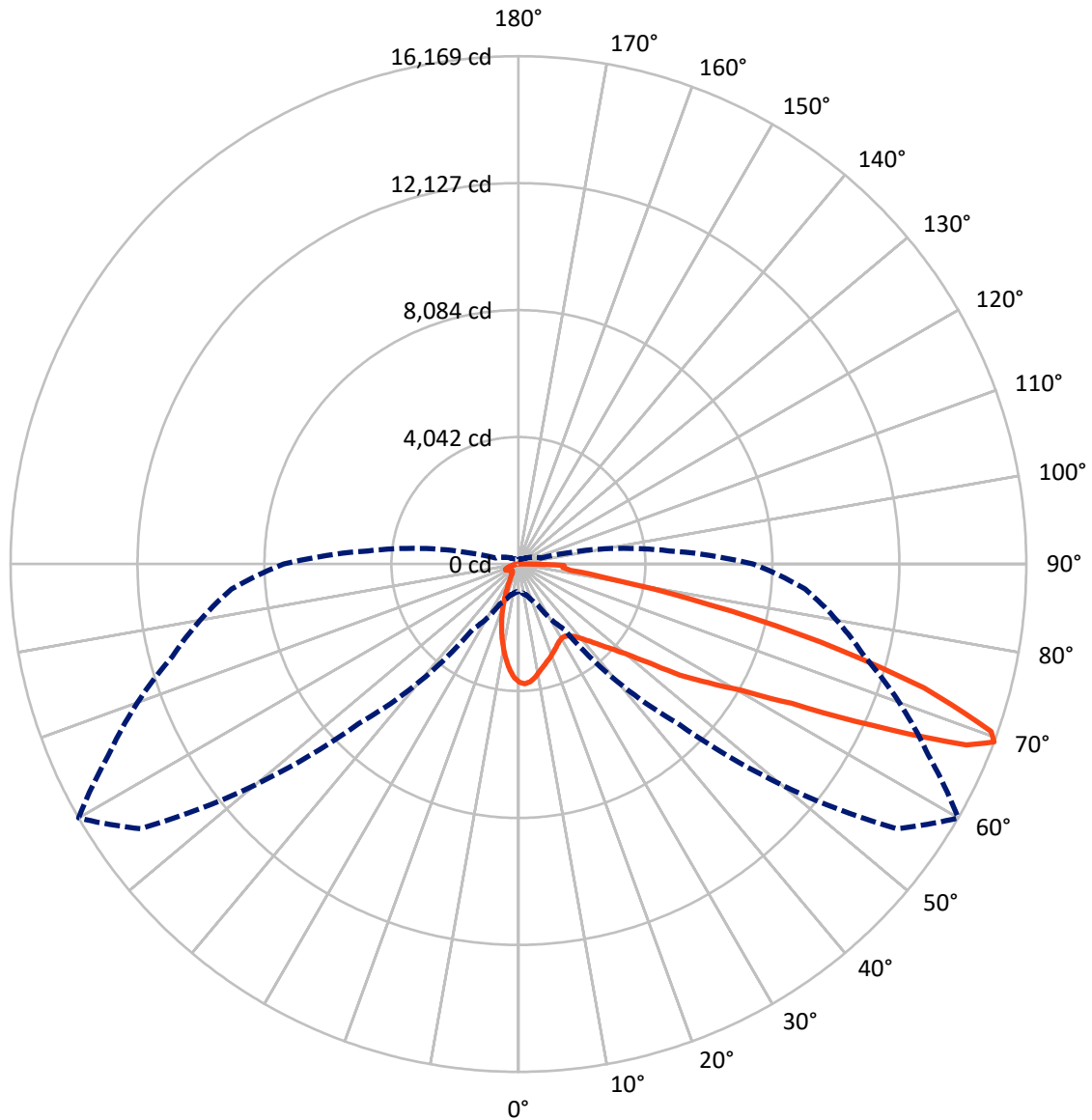


Based on 20 foot mounting height. Maximum calculated value = 9.4 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299829

CATALOG NUMBER: GAA-AF-03-LED-U-SL3-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P299829

CATALOG NUMBER: GAA-AF-03-LED-U-SL3-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2102.7	0.0	2102.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	12677.0	0.0	12677.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	14779.7	0.0	14779.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.4	2.2
10°-20°	678.5	4.6
20°-30°	864.5	5.8
30°-40°	1188.4	8.0
40°-50°	1928.3	13.0
50°-60°	3092.6	20.9
60°-70°	4116.0	27.8
70°-80°	2222.3	15.0
80°-90°	370.8	2.5
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°	14779.7	100.0
0°-180°	14779.7	100.0



REPORT NUMBER: P299829

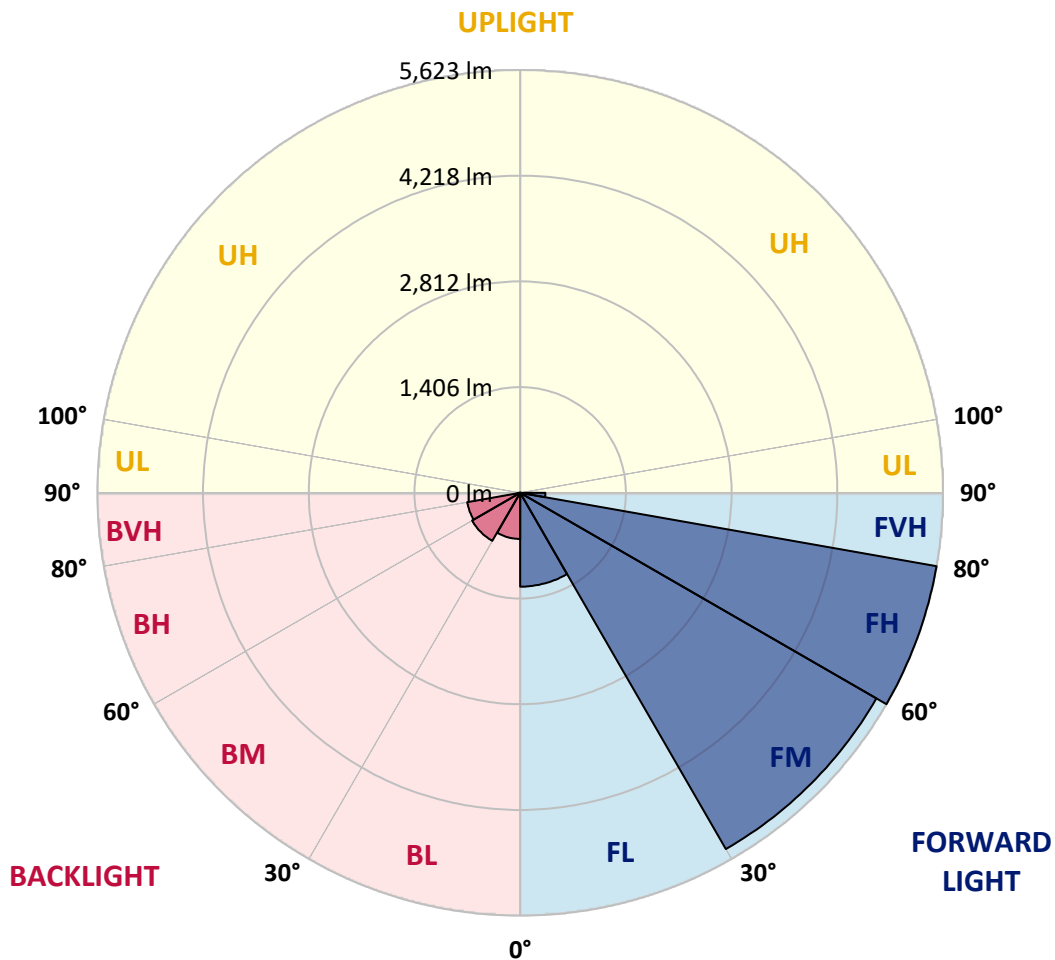
CATALOG NUMBER: GAA-AF-03-LED-U-SL3-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.9	8.4			
FM (30°-60°)	5470.6	37.0			
FH (60°-80°)	5623.4	38.0			G3/7500
FVH (80°-90°)	335.1	2.3			G3/500
BL (0°-30°)	613.4	4.2	B2/1000		
BM (30°-60°)	738.7	5.0	B1/1000		
BH (60°-80°)	714.9	4.8	B2/1000		G2/1000
BVH (80°-90°)	35.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





REPORT NUMBER: P299829

CATALOG NUMBER: GAA-AF-03-LED-U-SL3-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1
2.5°	3843.2	3851.8	3848.2	3846.1	3852.5	3842.5	3821.8	3815.4	3805.4	3781.8	3741.8
5°	3699.0	3724.7	3723.3	3742.5	3774.7	3783.2	3774.0	3775.4	3756.8	3727.5	3661.2
7.5°	3449.8	3460.5	3466.2	3508.4	3566.9	3614.0	3654.0	3666.9	3658.3	3633.3	3547.6
10°	3192.8	3201.4	3214.9	3264.2	3338.4	3403.4	3479.1	3522.6	3541.2	3536.9	3441.3
12.5°	2972.2	2980.8	2998.6	3054.3	3142.8	3222.8	3332.7	3387.0	3431.3	3457.7	3354.9
15°	2774.4	2793.0	2810.1	2874.4	2973.6	3078.6	3202.8	3271.3	3339.9	3399.1	3278.5
17.5°	2620.2	2638.8	2648.8	2707.3	2813.0	2941.5	3087.1	3167.8	3253.5	3350.6	3202.8
20°	2531.0	2539.5	2535.2	2568.1	2663.0	2799.4	2972.2	3065.7	3169.2	3304.9	3127.1
22.5°	2506.0	2506.7	2491.0	2487.4	2548.8	2663.8	2849.4	2962.9	3090.0	3274.9	3062.1
25°	2566.7	2564.5	2521.7	2486.7	2493.1	2560.2	2730.9	2863.0	3023.6	3268.5	3012.2
27.5°	2701.6	2708.0	2644.5	2578.8	2513.8	2511.7	2640.9	2780.1	2969.3	3297.7	2990.7
30°	2890.8	2901.5	2833.7	2750.1	2628.1	2527.4	2605.9	2730.9	2935.8	3358.4	2987.2
32.5°	3097.8	3109.3	3057.9	2970.0	2810.1	2624.5	2630.2	2735.2	2934.3	3443.4	3011.5
35°	3318.5	3331.3	3304.9	3230.6	3052.9	2803.7	2723.0	2804.4	2980.8	3573.3	3076.4
37.5°	3564.8	3584.8	3591.9	3521.2	3331.3	3040.0	2875.1	2935.8	3085.7	3754.0	3195.7
40°	3919.6	3947.4	3945.3	3843.9	3650.4	3359.1	3110.0	3125.7	3249.2	3995.3	3386.3
42.5°	4599.3	4605.0	4427.2	4206.6	4001.7	3694.7	3387.0	3374.1	3474.8	4300.9	3666.9
45°	5463.9	5440.3	5044.8	4618.6	4368.7	4080.2	3747.5	3684.7	3761.1	4673.5	4018.1
47.5°	6181.4	6127.1	5627.4	5039.1	4757.1	4499.3	4170.9	4061.0	4103.1	5096.2	4472.2
50°	6430.6	6389.9	5975.8	5388.9	5124.8	5010.5	4692.1	4536.5	4547.9	5600.2	5004.1
52.5°	6377.0	6371.3	6095.0	5619.5	5468.9	5547.4	5430.3	5219.7	5108.3	6160.0	5578.1
55°	6250.7	6262.8	6162.8	5888.0	5862.3	6065.7	6394.9	6239.2	5893.0	6724.7	6171.4
57.5°	5811.6	5843.0	6062.9	6225.7	6495.5	6798.3	7171.7	7127.4	6737.6	7335.2	6876.8
60°	4682.1	4754.9	5344.7	6160.0	7147.4	8094.1	8261.1	8158.3	7608.6	8092.7	7808.5
62.5°	3280.6	3356.3	4057.4	5333.2	7040.3	9557.7	10208.8	9765.4	8859.4	9208.6	9014.4
65°	1756.3	1792.7	2328.2	3700.4	5943.7	9859.7	13055.3	12380.7	10839.9	10584.4	10046.0
67.5°	968.8	988.8	1193.7	1868.4	3806.8	8682.4	14868.8	15378.5	13315.2	11500.4	9858.3
69°	876.0	894.6	1028.8	1415.1	2547.4	7178.8	14691.7	16168.9	14400.4	11409.7	9164.3
70°	856.7	873.9	994.5	1304.4	2061.9	5917.2	14098.4	15966.8	14658.9	11084.8	8558.9
72.5°	771.1	789.6	906.7	1171.6	1762.0	2950.1	11167.7	13500.1	13308.8	9611.2	6492.0
75°	719.0	736.1	934.6	1147.3	1687.1	1867.0	7362.3	9949.6	9783.3	6723.3	3500.5
77.5°	307.7	306.3	433.4	971.0	1712.1	1807.7	3956.0	6215.7	5670.9	2873.7	1005.2
80°	205.6	202.0	205.6	285.6	1570.0	1817.7	2072.6	3155.0	2383.2	732.5	495.5
82.5°	177.1	174.2	180.6	174.2	551.9	2074.7	1762.0	1677.8	1133.0	416.2	245.6
85°	119.2	114.2	155.6	156.4	260.6	1843.4	1984.8	1417.2	916.7	247.0	121.4
87.5°	57.1	55.7	90.7	110.7	152.8	748.9	2226.8	1452.2	924.6	126.4	57.8
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: P299829

CATALOG NUMBER: GAA-AF-03-LED-U-SL3-8030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1	3766.1
2.5°	3729.7	3700.4	3671.9	3637.6	3601.9	3561.9	3541.9	3521.9	3516.9	3511.2	3491.2
5°	3626.9	3585.5	3514.1	3435.5	3352.7	3272.0	3210.6	3172.1	3142.8	3127.8	3101.4
7.5°	3494.1	3433.4	3308.5	3172.8	3033.6	2906.5	2796.6	2727.3	2661.6	2630.9	2595.9
10°	3367.7	3277.0	3082.8	2882.9	2683.0	2491.0	2310.4	2182.6	2069.0	2005.5	1960.5
12.5°	3259.2	3135.0	2865.8	2595.2	2321.1	2047.6	1777.0	1564.3	1386.5	1293.0	1245.1
15°	3153.5	3003.6	2659.5	2316.1	1964.1	1592.1	1236.6	995.3	848.2	789.6	769.6
17.5°	3057.9	2865.8	2452.4	2034.8	1595.7	1145.9	831.0	698.2	641.8	622.6	616.1
20°	2954.3	2726.6	2237.5	1740.6	1211.6	801.1	649.0	590.4	567.6	561.9	559.0
22.5°	2854.4	2589.5	2031.9	1425.8	870.3	618.3	557.6	533.3	529.8	534.8	534.8
25°	2769.4	2466.7	1809.9	1096.6	639.0	520.5	499.1	493.3	506.9	525.5	529.0
27.5°	2705.9	2366.0	1573.6	809.6	509.0	452.6	451.9	461.2	494.8	530.5	537.6
30°	2662.3	2270.4	1320.8	584.0	426.9	398.4	409.8	429.8	479.1	529.8	543.3
32.5°	2640.2	2199.7	1057.4	451.9	365.5	349.8	369.1	393.4	441.9	489.1	506.9
35°	2657.3	2147.6	808.9	377.0	322.7	310.6	330.6	354.1	382.7	402.7	416.2
37.5°	2721.6	2126.9	610.4	337.7	293.4	282.0	297.7	311.3	322.7	328.4	334.8
40°	2860.1	2149.0	489.1	317.7	277.0	262.7	269.2	274.2	281.3	287.0	289.9
42.5°	3064.3	2215.4	438.4	309.9	268.4	247.7	246.3	248.5	257.7	268.4	270.6
45°	3349.9	2332.5	434.8	314.9	264.2	235.6	229.2	232.0	246.3	262.7	265.6
47.5°	3714.7	2511.0	463.4	329.8	267.7	229.2	218.5	222.0	239.9	262.0	265.6
50°	4156.6	2760.1	511.2	352.0	283.4	230.6	214.9	217.0	235.6	259.9	263.4
52.5°	4678.5	3113.5	563.3	373.4	299.9	239.9	217.8	212.8	229.9	251.3	255.6
55°	5259.0	3566.9	616.9	392.7	308.4	251.3	223.5	207.0	219.2	237.0	240.6
57.5°	5971.5	4200.9	709.7	411.2	314.1	259.2	229.2	201.3	205.6	218.5	221.3
60°	6936.1	5097.6	873.2	441.9	327.0	262.0	228.5	196.3	192.1	199.2	200.6
62.5°	8091.9	6071.5	1009.5	480.5	348.4	264.2	224.2	192.8	180.6	180.6	182.1
65°	8778.1	6332.0	933.9	512.6	366.3	262.0	219.2	189.2	172.1	164.2	164.9
67.5°	8196.2	5568.8	800.3	519.0	365.5	252.0	211.3	182.8	163.5	151.4	150.6
69°	7467.2	4804.9	740.4	501.9	348.4	239.2	201.3	175.6	157.1	144.2	143.5
70°	6879.6	4338.7	701.1	483.3	329.8	229.9	193.5	169.2	152.1	139.9	138.5
72.5°	5002.0	2843.0	599.0	415.5	272.0	192.8	167.1	148.5	135.7	128.5	127.1
75°	2499.5	1355.8	486.2	337.0	208.5	154.2	137.1	124.2	117.8	116.4	115.7
77.5°	821.0	621.1	347.7	251.3	154.9	120.7	110.7	101.4	100.0	104.2	102.8
80°	451.2	361.3	220.6	166.4	105.7	88.5	87.1	82.1	84.2	91.4	90.0
82.5°	229.9	187.8	136.4	100.0	71.4	63.5	69.3	66.4	69.3	75.7	75.0
85°	113.5	102.8	86.4	60.7	47.1	40.7	49.3	51.4	52.8	57.8	57.8
87.5°	65.7	60.7	45.7	28.6	23.6	21.4	28.6	27.8	32.8	35.7	35.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)