

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: P300991

Luminaire Tested: **GAA-AF-06-LED-U-SL4-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-06-LED-U-SL4-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

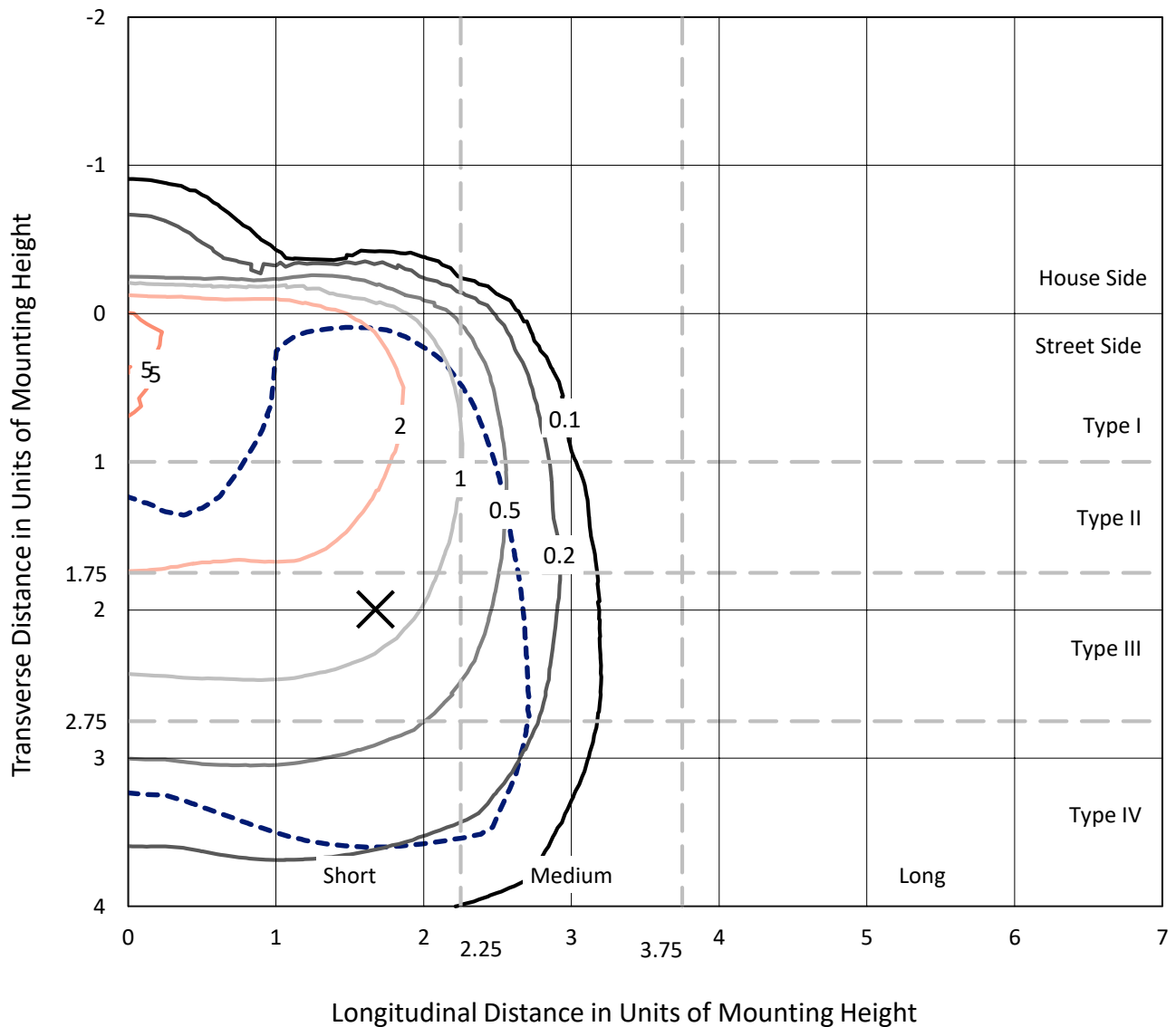
Lumens per Lamp: N/A  
Luminaire Lumens: 21480.9 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (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: P300991  
 CATALOG NUMBER: GAA-AF-06-LED-U-SL4-7030-600

### Iso-Footcandle Lines of Horizontal Illumination

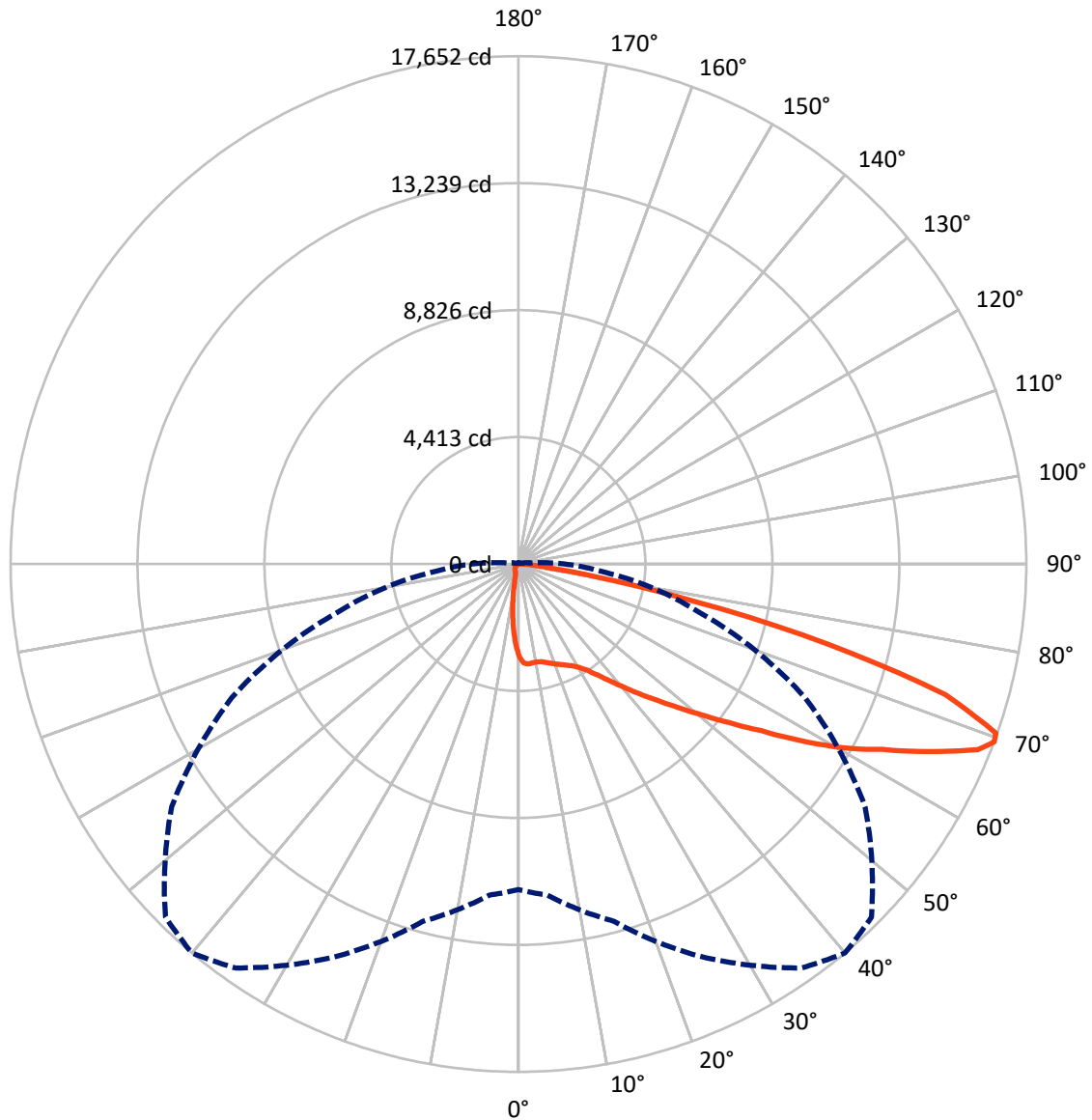
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300991  
CATALOG NUMBER: GAA-AF-06-LED-U-SL4-7030-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P300991

CATALOG NUMBER: GAA-AF-06-LED-U-SL4-7030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1256.8	0.0	1256.8
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	20224.2	0.0	20224.2
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	21480.9	0.0	21480.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.2	1.2
10°-20°	639.9	3.0
20°-30°	1077.8	5.0
30°-40°	1764.5	8.2
40°-50°	3055.1	14.2
50°-60°	4812.1	22.4
60°-70°	6284.4	29.3
70°-80°	3236.8	15.1
80°-90°	350.1	1.6
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°	21480.9	100.0
0°-180°	21480.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P300991

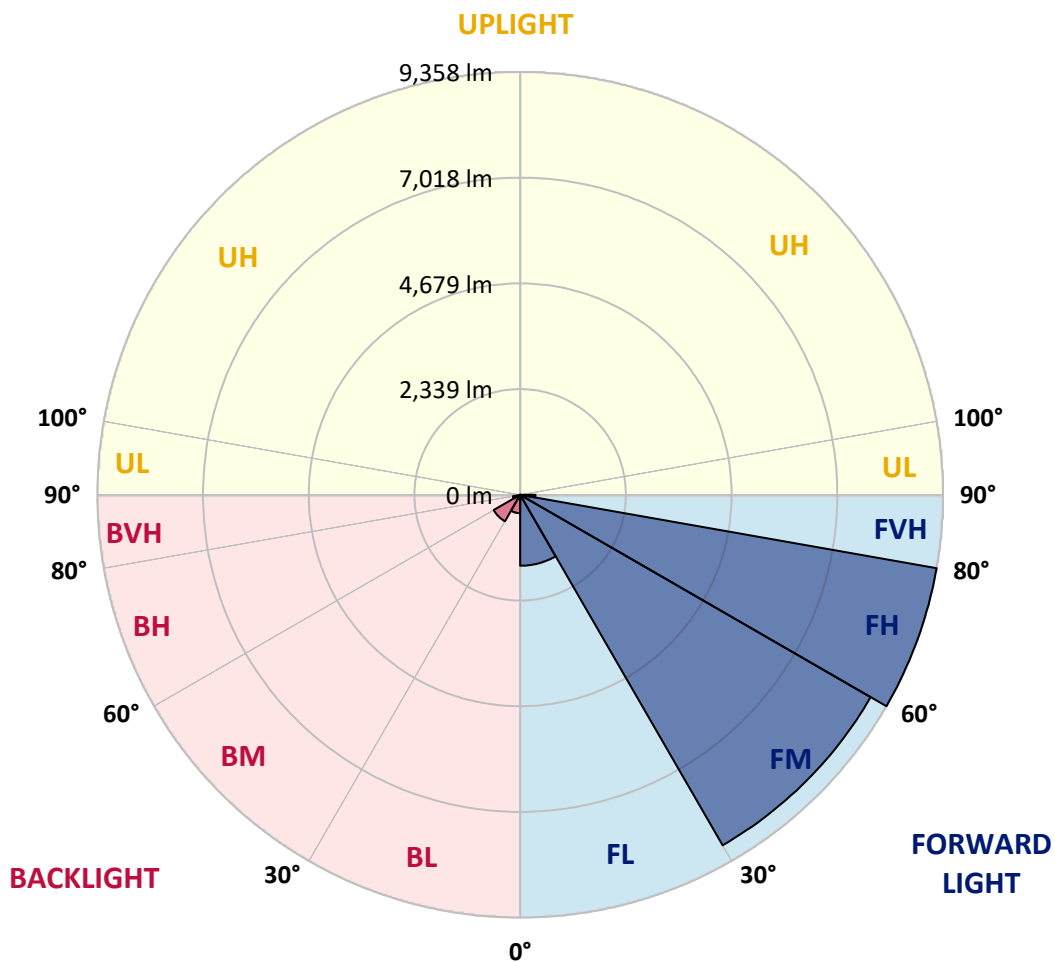
CATALOG NUMBER: GAA-AF-06-LED-U-SL4-7030-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1570.9	7.3			
FM	(30°-60°)	8956.2	41.7			
FH	(60°-80°)	9358.0	43.6			G4/12000
FVH	(80°-90°)	339.1	1.6			G3/500
BL	(0°-30°)	407.1	1.9	B1/500		
BM	(30°-60°)	675.5	3.1	B1/1000		
BH	(60°-80°)	163.2	0.8	B1/500		G1/500
BVH	(80°-90°)	11.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





REPORT NUMBER: P300991

CATALOG NUMBER: GAA-AF-06-LED-U-SL4-7030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4
2.5°	3523.9	3504.7	3493.2	3477.9	3458.7	3442.1	3435.7	3388.4	3343.6	3282.2	3211.9
5°	3589.1	3582.7	3562.3	3541.8	3518.8	3493.2	3479.1	3422.9	3359.0	3269.5	3146.7
7.5°	3595.5	3587.8	3562.3	3534.1	3502.2	3471.5	3447.2	3390.9	3332.1	3241.3	3091.7
10°	3585.3	3576.3	3557.1	3526.5	3486.8	3457.4	3433.1	3379.4	3329.5	3247.7	3081.5
12.5°	3573.8	3564.8	3555.9	3540.5	3506.0	3485.5	3465.1	3413.9	3369.2	3300.1	3118.6
15°	3585.3	3580.2	3590.4	3584.0	3564.8	3546.9	3526.5	3480.4	3439.5	3382.0	3186.3
17.5°	3633.9	3633.9	3665.8	3669.7	3651.8	3626.2	3596.8	3550.8	3516.2	3467.6	3266.9
20°	3747.7	3743.8	3784.7	3792.4	3748.9	3709.3	3665.8	3609.6	3582.7	3552.0	3346.2
22.5°	3943.3	3925.4	3949.7	3942.0	3856.3	3795.0	3741.3	3672.2	3658.2	3644.1	3434.4
25°	4197.7	4187.5	4204.1	4128.7	3977.8	3894.7	3830.8	3752.8	3752.8	3766.8	3534.1
27.5°	4567.3	4528.9	4472.6	4339.7	4113.3	4007.2	3938.2	3855.1	3876.8	3929.2	3665.8
30°	4945.7	4903.5	4774.4	4569.8	4278.3	4167.1	4086.5	3999.6	4050.7	4146.6	3842.3
32.5°	5319.1	5271.8	5088.9	4830.7	4514.8	4403.6	4325.6	4229.7	4315.4	4476.5	4100.6
35°	5680.9	5638.8	5427.8	5123.5	4829.4	4737.3	4665.7	4582.6	4692.6	4917.6	4465.0
37.5°	6087.6	6041.5	5784.5	5454.6	5211.7	5145.2	5092.8	5009.7	5201.5	5531.3	4972.6
40°	6587.5	6509.5	6163.0	5834.4	5654.1	5622.1	5586.3	5574.8	5872.7	6329.2	5649.0
42.5°	7160.3	7032.5	6559.4	6234.6	6140.0	6163.0	6154.0	6205.2	6712.8	7321.4	6472.4
45°	7733.1	7568.2	7000.5	6661.7	6674.4	6755.0	6804.9	7009.4	7765.1	8459.4	7358.5
47.5°	8219.0	8056.6	7423.7	7123.2	7276.7	7435.2	7570.8	7958.2	8846.8	9579.5	8047.7
50°	8634.6	8481.1	7872.5	7630.9	7976.1	8231.8	8451.7	9025.8	10010.4	10432.3	8531.0
52.5°	8974.7	8872.4	8337.9	8212.6	8775.2	9149.9	9472.1	10160.0	11041.0	11125.3	8906.9
55°	9305.9	9233.0	8837.9	8904.4	9713.7	10223.9	10631.8	11363.2	11928.3	11703.3	9267.5
57.5°	9686.9	9620.4	9408.1	9781.5	10947.6	11589.5	12034.5	12429.5	12709.6	12294.0	9607.6
60°	10075.6	10037.2	10042.3	10755.8	12364.3	12980.6	13226.1	13328.4	13476.7	12850.2	9626.8
62.5°	10446.4	10519.3	10767.3	11840.1	13721.0	14194.1	14318.1	14419.1	14245.2	12938.4	8894.1
65°	11074.2	11193.1	11785.1	13291.3	15213.1	15719.5	15847.3	15500.8	14366.7	11797.9	7234.5
67.5°	11381.1	11598.4	12654.6	14644.1	16660.5	17223.1	17175.8	15571.1	12892.4	8996.4	4642.7
69°	11317.1	11548.6	12855.3	15058.4	17141.3	17651.5	17351.0	14710.6	10983.4	6517.2	2850.1
70°	11064.0	11298.0	12751.8	15043.1	17202.7	17606.7	17026.2	13648.1	9286.7	4765.4	1782.4
72.5°	9239.4	9441.4	11321.0	13596.9	15847.3	15518.7	14243.9	9455.5	4525.1	1297.8	401.5
75°	5687.3	5799.9	8123.1	10243.1	11969.2	11125.3	9490.0	4704.1	1349.0	367.0	222.5
77.5°	3004.8	3055.9	4447.1	6037.7	7587.4	6278.1	4863.9	1834.8	621.4	230.2	161.1
80°	1776.0	1814.4	2394.9	2760.6	3283.5	2742.7	1944.8	1126.5	445.0	144.5	143.2
82.5°	1016.5	1040.8	1736.4	1534.4	1294.0	1104.7	967.9	1067.7	267.2	97.2	148.3
85°	373.4	378.5	976.9	1167.4	769.7	457.7	480.8	884.8	71.6	61.4	116.4
87.5°	173.9	170.1	502.5	714.8	450.1	290.2	374.6	194.4	28.1	39.6	32.0
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: P300991

CATALOG NUMBER: GAA-AF-06-LED-U-SL4-7030-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4	3209.4
2.5°	3171.0	3123.7	3038.0	2949.8	2860.3	2791.2	2723.5	2669.8	2651.9	2618.6	2621.2
5°	3073.8	2986.9	2807.9	2626.3	2437.1	2281.1	2134.0	2015.1	1957.6	1898.8	1898.8
7.5°	2989.4	2862.8	2582.8	2287.5	1981.9	1724.9	1493.4	1319.5	1223.6	1146.9	1145.7
10°	2957.5	2786.1	2394.9	1971.6	1545.9	1195.5	920.6	744.2	653.4	594.6	592.0
12.5°	2971.5	2759.3	2250.4	1680.1	1145.7	768.5	533.2	419.4	381.0	363.1	363.1
15°	3012.4	2751.6	2105.9	1395.0	809.4	480.8	354.2	323.5	320.9	320.9	320.9
17.5°	3062.3	2754.2	1957.6	1117.5	551.1	344.0	305.6	301.8	304.3	304.3	304.3
20°	3113.5	2755.4	1797.8	860.5	388.7	299.2	287.7	286.4	289.0	289.0	290.2
22.5°	3176.1	2761.8	1637.9	643.2	320.9	282.6	273.6	273.6	274.9	274.9	273.6
25°	3247.7	2774.6	1471.7	476.9	292.8	271.1	263.4	262.1	263.4	262.1	260.8
27.5°	3337.2	2792.5	1286.3	373.4	280.0	259.6	253.2	253.2	251.9	250.6	249.3
30°	3449.7	2813.0	1077.9	317.1	267.2	249.3	242.9	241.7	240.4	237.8	237.8
32.5°	3621.1	2857.7	872.0	287.7	253.2	235.3	230.2	230.2	227.6	225.0	223.8
35°	3884.5	2946.0	687.9	269.8	237.8	219.9	213.5	213.5	211.0	209.7	208.4
37.5°	4248.9	3080.2	534.5	253.2	222.5	203.3	196.9	195.6	193.1	190.5	189.2
40°	4733.5	3246.4	420.7	237.8	207.1	186.7	181.6	179.0	173.9	170.1	170.1
42.5°	5342.1	3435.7	341.4	221.2	189.2	171.3	167.5	163.7	154.7	150.9	149.6
45°	5978.9	3605.7	289.0	202.0	171.3	156.0	153.4	147.0	135.5	131.7	131.7
47.5°	6437.9	3645.4	254.4	184.1	154.7	139.4	138.1	126.6	116.4	113.8	112.5
50°	6724.3	3567.4	226.3	166.2	139.4	124.0	120.2	106.1	99.7	97.2	95.9
52.5°	6917.4	3428.0	203.3	150.9	125.3	110.0	101.0	90.8	85.7	83.1	83.1
55°	7072.1	3231.1	180.3	136.8	113.8	98.5	85.7	78.0	72.9	70.3	70.3
57.5°	7115.6	2963.9	157.3	125.3	102.3	86.9	72.9	67.8	61.4	60.1	60.1
60°	6799.7	2481.8	139.4	111.2	92.1	75.4	63.9	57.5	51.1	49.9	48.6
62.5°	5967.4	1920.5	122.7	98.5	80.6	65.2	55.0	47.3	42.2	42.2	42.2
65°	4551.9	1287.6	107.4	85.7	70.3	55.0	47.3	38.4	35.8	35.8	37.1
67.5°	2724.8	700.7	92.1	72.9	60.1	46.0	39.6	33.2	32.0	33.2	33.2
69°	1597.0	411.7	83.1	65.2	52.4	40.9	34.5	29.4	32.0	33.2	33.2
70°	985.8	277.5	76.7	58.8	47.3	37.1	32.0	28.1	30.7	32.0	32.0
72.5°	274.9	143.2	61.4	46.0	38.4	30.7	25.6	25.6	29.4	30.7	30.7
75°	179.0	106.1	47.3	34.5	29.4	24.3	21.7	24.3	28.1	29.4	29.4
77.5°	148.3	86.9	38.4	28.1	24.3	23.0	20.5	21.7	25.6	26.9	26.9
80°	135.5	61.4	30.7	25.6	21.7	20.5	19.2	17.9	23.0	24.3	24.3
82.5°	129.1	48.6	26.9	23.0	20.5	17.9	16.6	17.9	20.5	21.7	23.0
85°	80.6	32.0	24.3	21.7	17.9	16.6	16.6	16.6	19.2	20.5	20.5
87.5°	29.4	25.6	21.7	17.9	15.3	15.3	15.3	15.3	16.6	19.2	19.2
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)