

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: P323189

Luminaire Tested: **GAN-SA5A-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323189  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5A-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19293 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

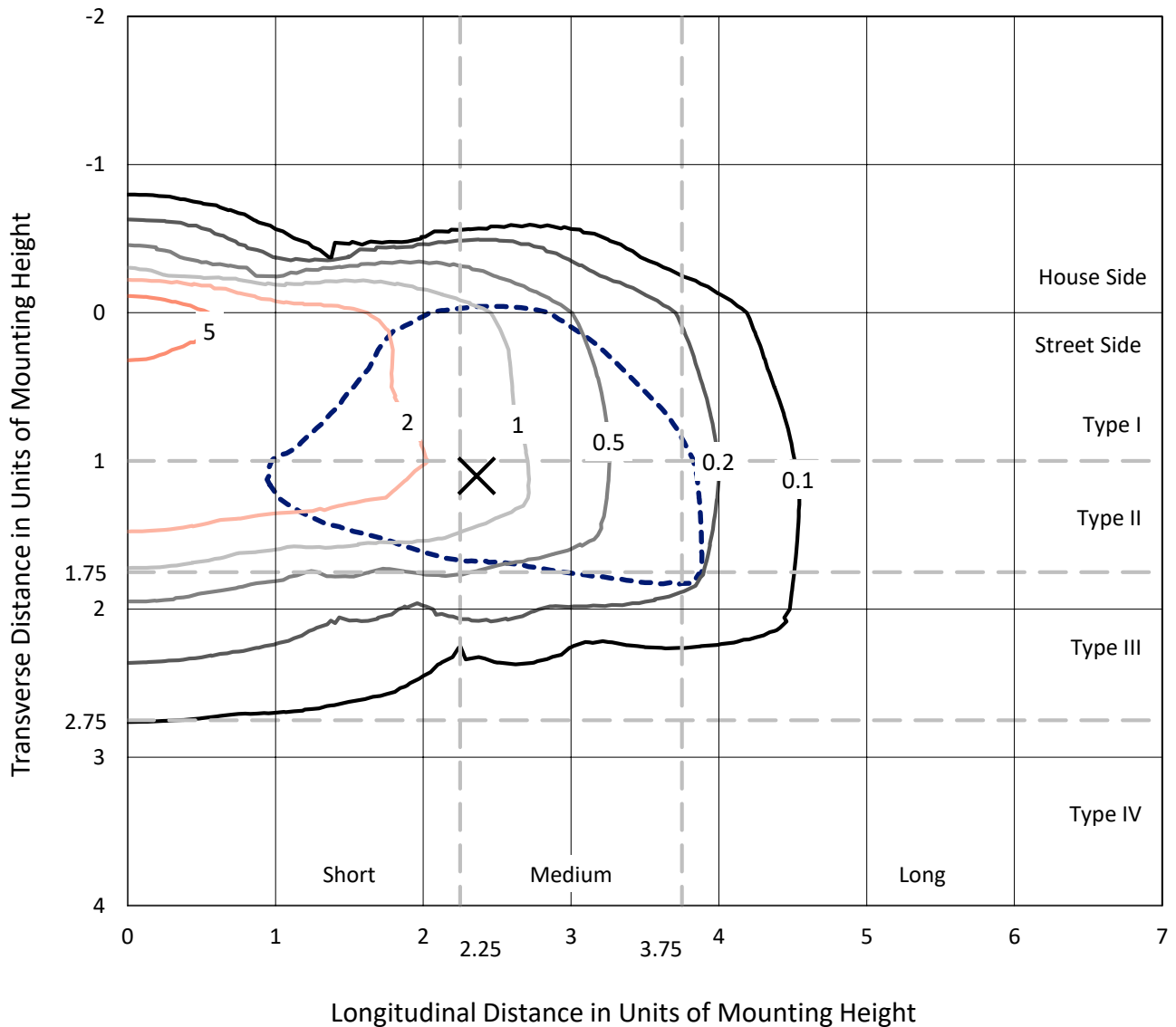
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

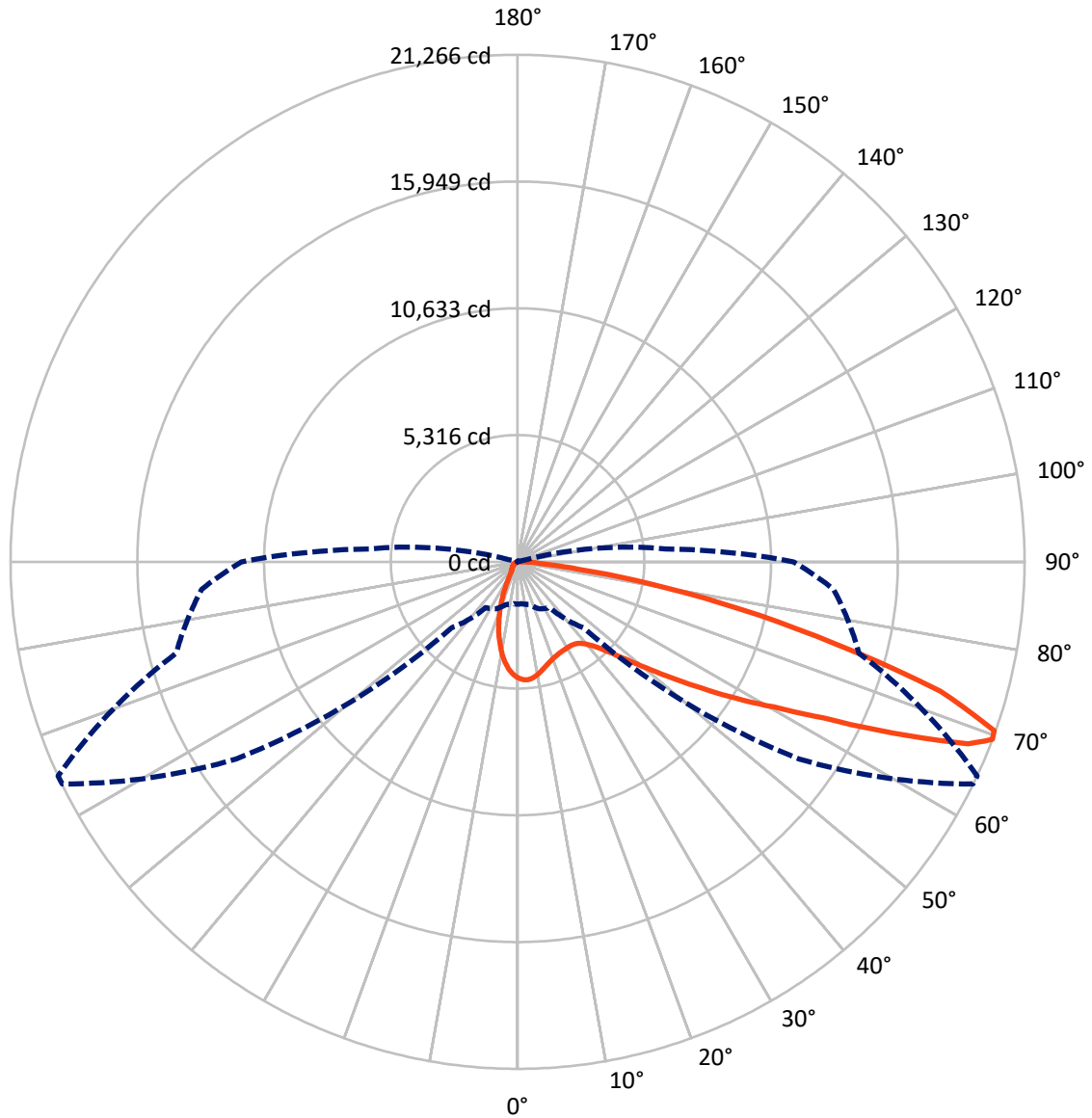
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2274.2	0.0	2274.2
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	17018.8	0.0	17018.8
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	19293.0	0.0	19293.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.7	2.1
10°-20°	892.4	4.6
20°-30°	1236.1	6.4
30°-40°	1723.5	8.9
40°-50°	2678.8	13.9
50°-60°	4300.5	22.3
60°-70°	4864.6	25.2
70°-80°	2857.0	14.8
80°-90°	332.3	1.7
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°	19293.0	100.0
0°-180°	19293.0	100.0

**Coefficient of Utilization**

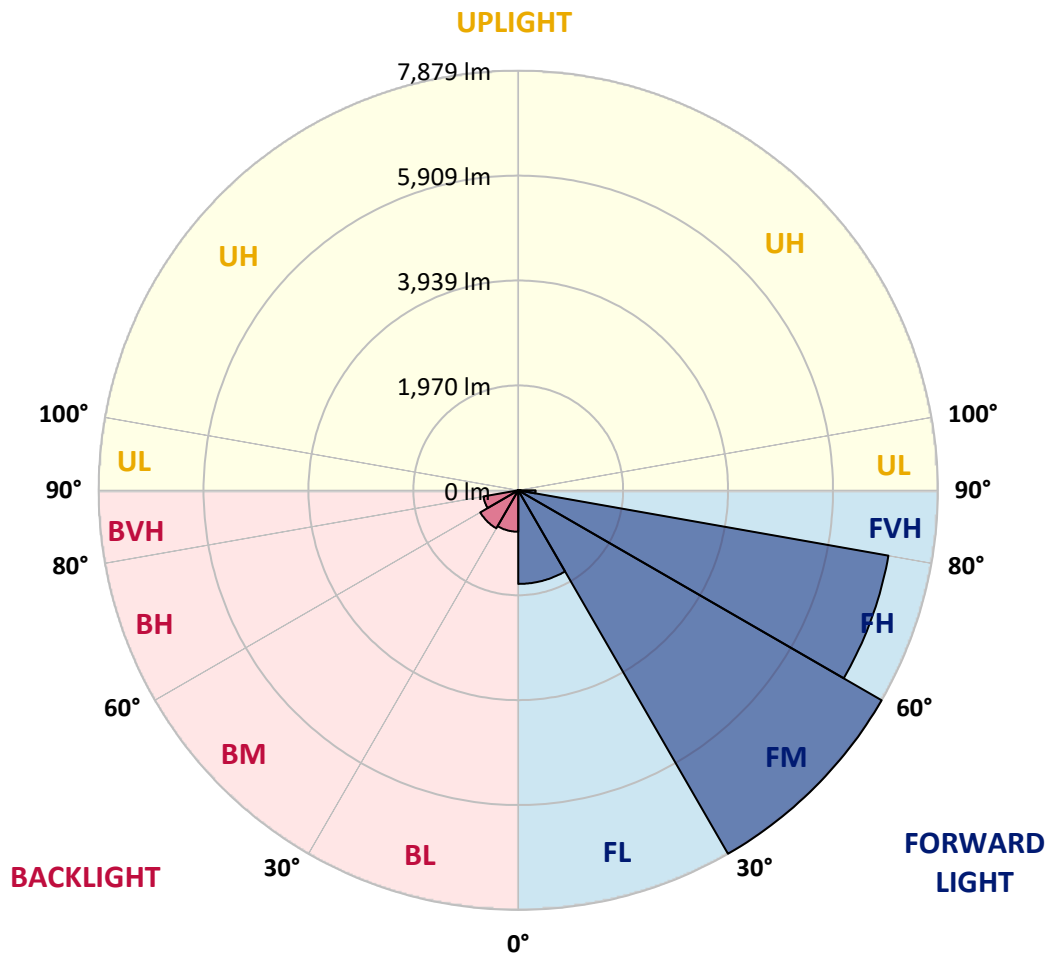


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1758.0	9.1			
FM (30°-60°)	7878.7	40.8			
FH (60°-80°)	7057.2	36.6			G3/7500
FVH (80°-90°)	324.9	1.7			G3/500
BL (0°-30°)	778.1	4.0	B2/1000		
BM (30°-60°)	824.1	4.3	B1/1000		
BH (60°-80°)	664.5	3.4	B2/1000		G2/1000
BVH (80°-90°)	7.5	0.0			G0/10
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4
2.5°	4918.6	4906.4	4916.2	4937.4	4948.0	4948.0	4956.2	4946.4	4949.7	4926.0	4891.7
5°	4610.9	4592.1	4619.0	4678.6	4752.1	4815.0	4908.0	4957.0	4961.9	4962.7	4922.7
7.5°	4279.4	4262.3	4302.3	4372.5	4467.2	4583.9	4746.4	4888.4	4896.6	4973.3	4944.0
10°	4010.0	3997.8	4044.3	4119.4	4230.4	4361.1	4560.3	4757.8	4781.5	4951.3	4940.7
12.5°	3796.1	3786.3	3830.4	3917.0	4030.4	4174.9	4383.1	4612.5	4644.3	4901.5	4924.4
15°	3640.2	3638.6	3675.3	3758.6	3884.3	4019.0	4232.1	4477.8	4514.5	4847.6	4921.9
17.5°	3558.6	3561.0	3588.0	3659.0	3766.7	3900.6	4104.7	4364.3	4404.3	4799.5	4934.2
20°	3550.4	3552.9	3567.5	3607.5	3694.9	3813.3	4001.0	4268.8	4310.4	4763.5	4953.7
22.5°	3622.2	3620.6	3624.7	3620.6	3669.6	3759.4	3932.5	4195.3	4243.5	4739.9	4969.3
25°	3760.2	3757.8	3756.1	3725.9	3693.3	3741.4	3903.9	4153.7	4199.4	4722.7	4978.2
27.5°	3952.1	3950.4	3948.0	3898.2	3800.2	3770.0	3907.2	4138.2	4176.6	4708.8	4976.6
30°	4204.3	4215.7	4212.5	4143.1	3990.4	3857.4	3941.4	4130.0	4163.5	4681.9	4959.5
32.5°	4500.7	4523.5	4541.5	4467.2	4276.2	4030.4	4020.6	4139.0	4163.5	4661.5	4928.4
35°	4808.4	4837.8	4903.9	4877.8	4626.4	4290.9	4157.0	4192.9	4213.3	4672.9	4913.7
37.5°	5111.3	5146.4	5290.1	5366.0	5085.2	4635.4	4369.2	4326.0	4336.6	4742.3	4930.1
40°	5463.2	5516.2	5734.2	5856.7	5633.0	5096.6	4686.8	4554.5	4558.6	4895.0	5006.0
42.5°	5925.2	5979.9	6215.9	6407.7	6250.1	5679.5	5117.8	4903.9	4899.9	5180.7	5184.8
45°	6488.5	6545.7	6789.8	7002.8	6931.8	6370.2	5669.7	5414.2	5409.3	5631.3	5523.6
47.5°	7126.9	7183.3	7401.2	7620.8	7697.6	7176.7	6372.6	6110.5	6099.1	6257.5	6046.9
50°	7674.7	7711.5	7912.3	8207.8	8553.9	8167.8	7246.9	6994.7	6982.4	7089.4	6815.1
52.5°	7873.9	7895.1	8099.2	8513.1	9376.9	9509.9	8395.6	8070.7	8061.7	8108.2	7838.0
55°	7470.6	7509.0	7759.6	8373.5	9822.6	11026.7	9845.4	9403.0	9335.2	9234.8	8907.4
57.5°	6371.8	6433.0	6702.4	7518.8	9614.4	12230.1	11976.2	10910.0	10810.4	10196.5	9776.9
60°	4774.1	4849.3	5072.9	5953.8	8503.3	12658.7	14304.5	12589.3	12364.8	10962.2	10576.1
62.5°	3276.1	3313.7	3465.5	4039.4	6262.4	11956.6	16252.3	14838.4	14428.6	11794.9	11440.6
65°	2502.2	2515.2	2577.3	2774.8	3729.2	9712.4	17027.1	17805.9	17310.4	12790.9	12337.8
67.5°	2016.4	2005.8	2091.5	2374.0	2497.3	5925.2	16123.4	20613.4	20381.5	14122.4	13240.7
69°	1778.1	1763.4	1850.7	2178.9	2345.4	3917.0	14413.9	21251.0	21265.7	14825.3	13302.8
70°	1600.1	1609.9	1696.4	2063.0	2294.0	3074.5	12781.1	21088.5	21204.5	15088.2	12930.5
72.5°	1068.6	1094.8	1268.6	1712.7	2205.8	2326.7	7717.2	18096.5	18542.3	14496.3	11093.7
75°	602.5	622.1	828.6	1291.5	2078.5	2215.6	4076.1	13332.2	13763.2	12122.3	8554.8
77.5°	295.5	306.1	468.6	833.5	1738.1	2111.1	2312.0	9056.0	9548.3	7912.3	4838.6
80°	124.9	130.6	234.3	514.3	1242.5	2014.8	1716.8	5573.4	5634.6	3099.8	1289.1
82.5°	48.2	49.8	98.8	320.8	789.4	1570.7	1436.0	2642.6	2578.9	583.7	293.9
85°	5.7	6.5	35.9	192.7	439.2	808.2	1166.6	1138.8	1053.9	115.9	151.0
87.5°	0.0	0.0	2.4	58.8	130.6	378.8	606.6	472.7	426.1	37.6	78.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4	4875.4
2.5°	4863.1	4855.0	4810.9	4747.2	4686.8	4611.7	4539.8	4496.6	4462.3	4439.4	4466.4
5°	4876.2	4840.3	4706.4	4534.9	4366.8	4177.4	4001.0	3851.6	3792.9	3727.6	3756.9
7.5°	4872.1	4804.4	4563.5	4258.2	3949.6	3630.4	3328.3	3095.7	2974.9	2856.5	2886.7
10°	4851.7	4737.4	4372.5	3920.2	3458.2	2999.4	2570.8	2245.0	2063.0	1898.1	1921.7
12.5°	4806.8	4647.6	4147.2	3533.3	2915.3	2310.3	1808.3	1391.1	1167.4	1068.6	1080.9
15°	4779.9	4560.3	3908.8	3141.4	2335.6	1609.1	1105.4	822.1	720.0	687.4	691.5
17.5°	4766.8	4476.2	3662.2	2693.2	1743.0	1024.5	714.3	630.2	608.2	602.5	604.1
20°	4753.7	4391.3	3408.4	2249.9	1200.9	689.0	587.0	562.5	554.3	547.0	548.6
22.5°	4731.7	4309.6	3135.7	1800.9	809.8	559.2	529.0	505.3	488.2	479.2	480.8
25°	4704.8	4223.9	2857.3	1341.3	591.1	498.8	470.2	436.8	416.3	400.0	400.8
27.5°	4661.5	4118.6	2569.9	976.4	496.4	446.6	408.2	371.4	337.2	318.4	318.4
30°	4601.1	3999.4	2250.7	698.8	444.9	395.1	348.6	302.9	266.1	249.0	247.4
32.5°	4534.1	3875.3	1928.3	529.8	404.1	347.0	293.9	245.7	213.1	199.2	198.4
35°	4477.0	3741.4	1606.6	444.1	363.3	300.4	242.5	201.6	175.5	164.1	163.3
37.5°	4440.2	3607.5	1293.1	396.8	326.5	257.2	203.3	166.5	147.8	138.8	138.0
40°	4434.5	3508.0	1006.6	360.8	292.3	218.8	169.8	141.2	124.1	114.3	113.5
42.5°	4508.8	3450.8	772.3	330.6	257.2	185.3	144.5	120.8	102.9	93.1	92.3
45°	4703.9	3468.8	594.3	303.7	222.1	156.7	122.5	100.4	84.1	76.7	75.1
47.5°	5059.9	3592.9	472.7	276.8	188.6	133.1	104.5	83.3	69.4	62.0	61.2
50°	5693.4	3884.3	395.1	247.4	157.6	113.5	86.5	67.8	56.3	49.8	49.0
52.5°	6534.2	4403.5	352.7	218.8	130.6	96.3	71.0	53.9	44.1	39.2	38.4
55°	7461.6	5032.1	324.9	187.8	106.9	80.0	56.3	42.5	34.3	30.2	28.6
57.5°	8367.0	5576.6	298.8	157.6	89.0	65.3	44.9	33.5	26.9	22.9	22.0
60°	9198.9	6077.1	268.6	126.5	72.7	51.4	35.1	26.1	21.2	17.1	17.1
62.5°	10089.5	6464.0	227.0	98.8	59.6	39.2	28.6	23.7	17.1	14.7	13.9
65°	11033.3	6751.4	178.0	76.7	46.5	29.4	23.7	24.5	13.9	10.6	9.8
67.5°	11730.5	6694.3	131.4	60.4	35.9	22.9	22.9	26.1	12.2	8.2	7.3
69°	11577.0	6229.7	110.2	52.2	31.0	19.6	21.2	26.1	11.4	7.3	6.5
70°	11132.1	5715.4	97.1	46.5	27.8	18.0	20.4	25.3	10.6	7.3	6.5
72.5°	9270.7	4304.7	75.9	35.1	22.0	14.7	17.1	22.0	10.6	7.3	5.7
75°	6973.5	2755.3	58.0	25.3	16.3	11.4	13.1	16.3	10.6	6.5	5.7
77.5°	3794.5	993.5	41.6	17.1	11.4	9.0	9.0	12.2	9.8	4.9	3.3
80°	975.6	249.8	26.1	11.4	9.0	6.5	5.7	8.2	5.7	0.8	0.0
82.5°	240.8	56.3	13.9	8.2	6.5	2.4	2.4	4.1	2.4	0.0	0.0
85°	132.3	27.8	9.0	5.7	3.3	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	67.8	8.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
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)