

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: P321591

Luminaire Tested: **GAN-SA7A-740-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7A-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25352 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

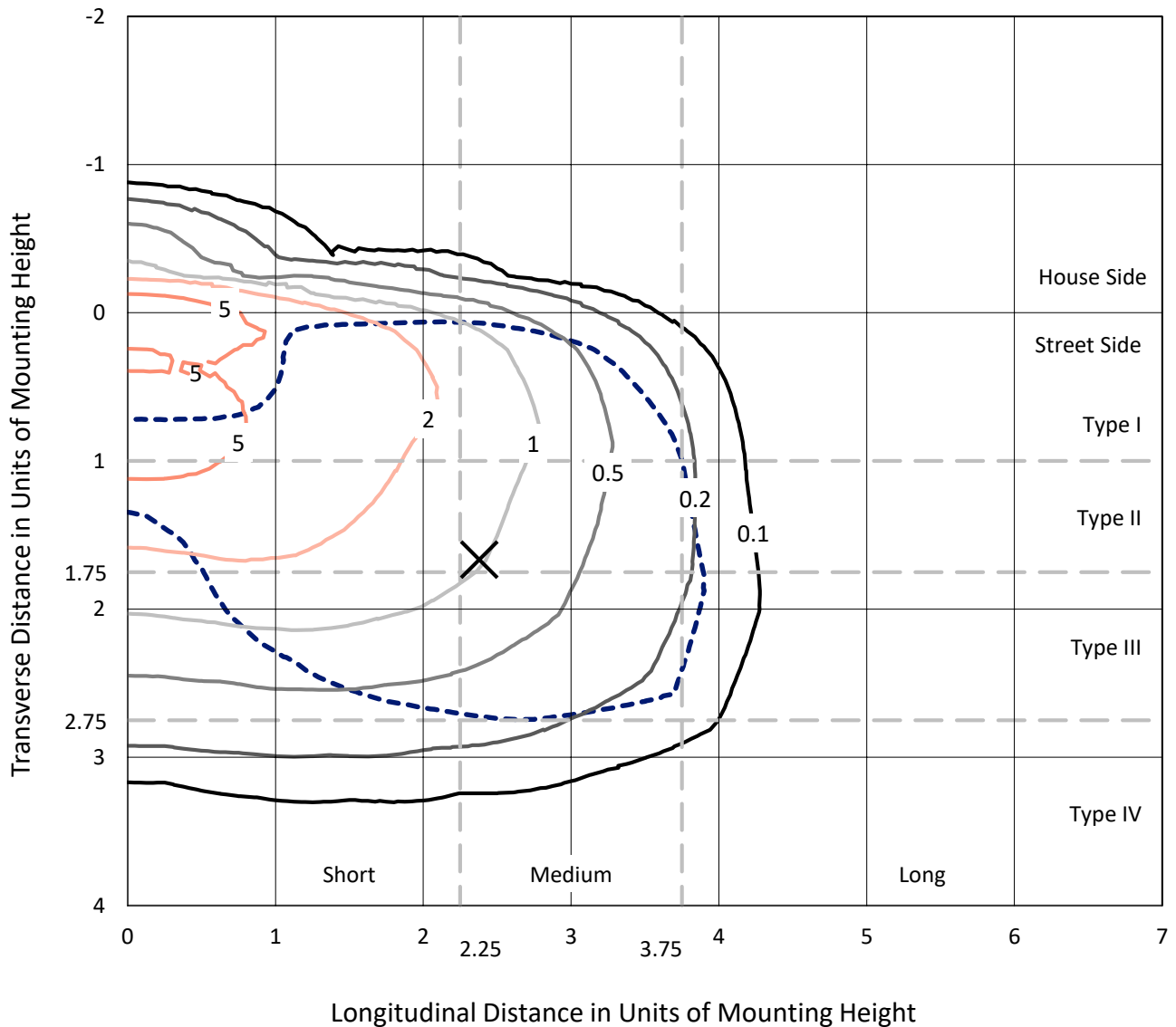
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

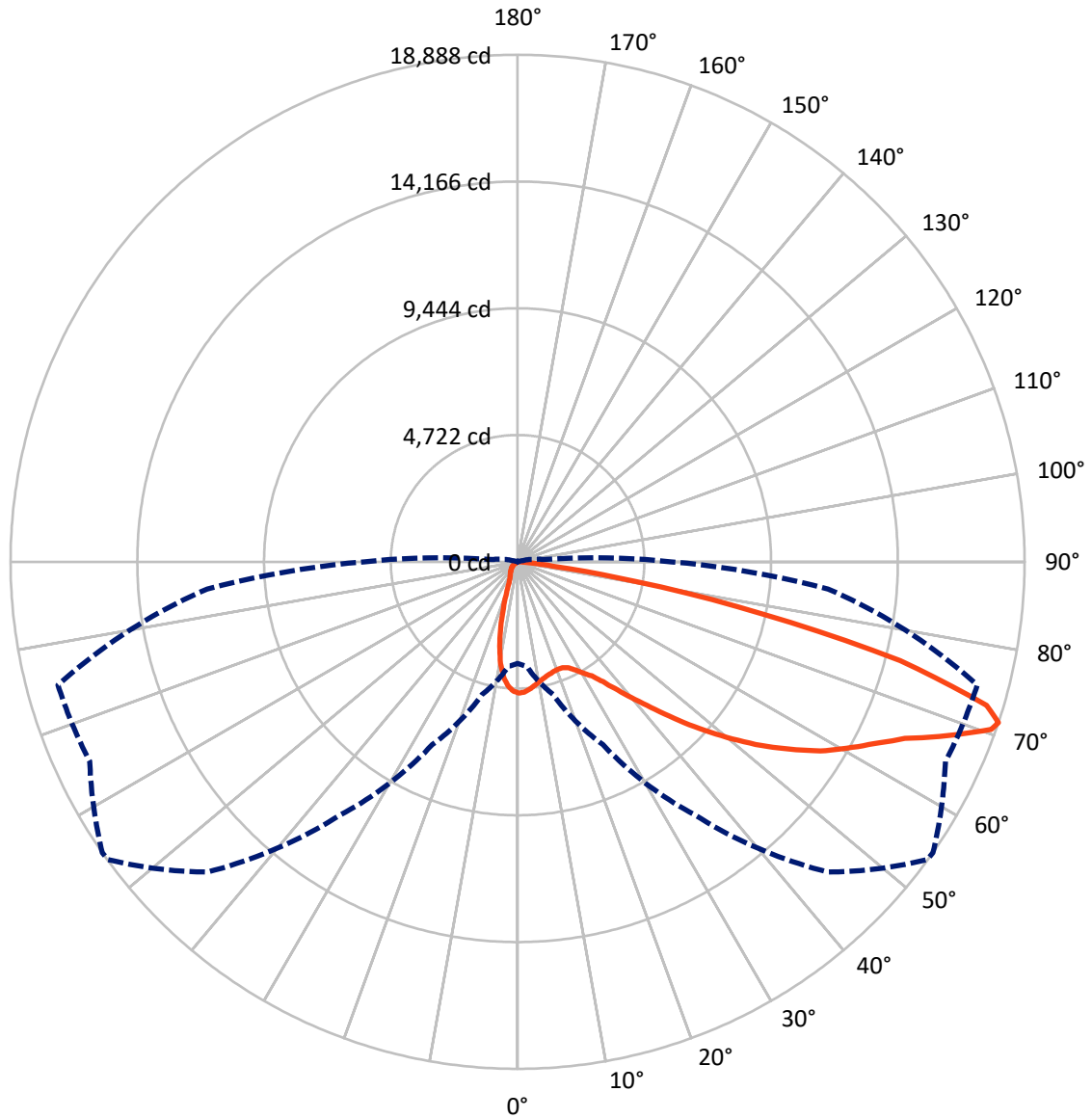
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2007.2	0.0	2007.2
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	23344.8	0.0	23344.8
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	25352.0	0.0	25352.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.9	1.6
10°-20°	941.1	3.7
20°-30°	1512.4	6.0
30°-40°	2569.7	10.1
40°-50°	3988.4	15.7
50°-60°	5362.3	21.2
60°-70°	6559.9	25.9
70°-80°	3835.4	15.1
80°-90°	165.8	0.7
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°	25352.0	100.0
0°-180°	25352.0	100.0

**Coefficient of Utilization**

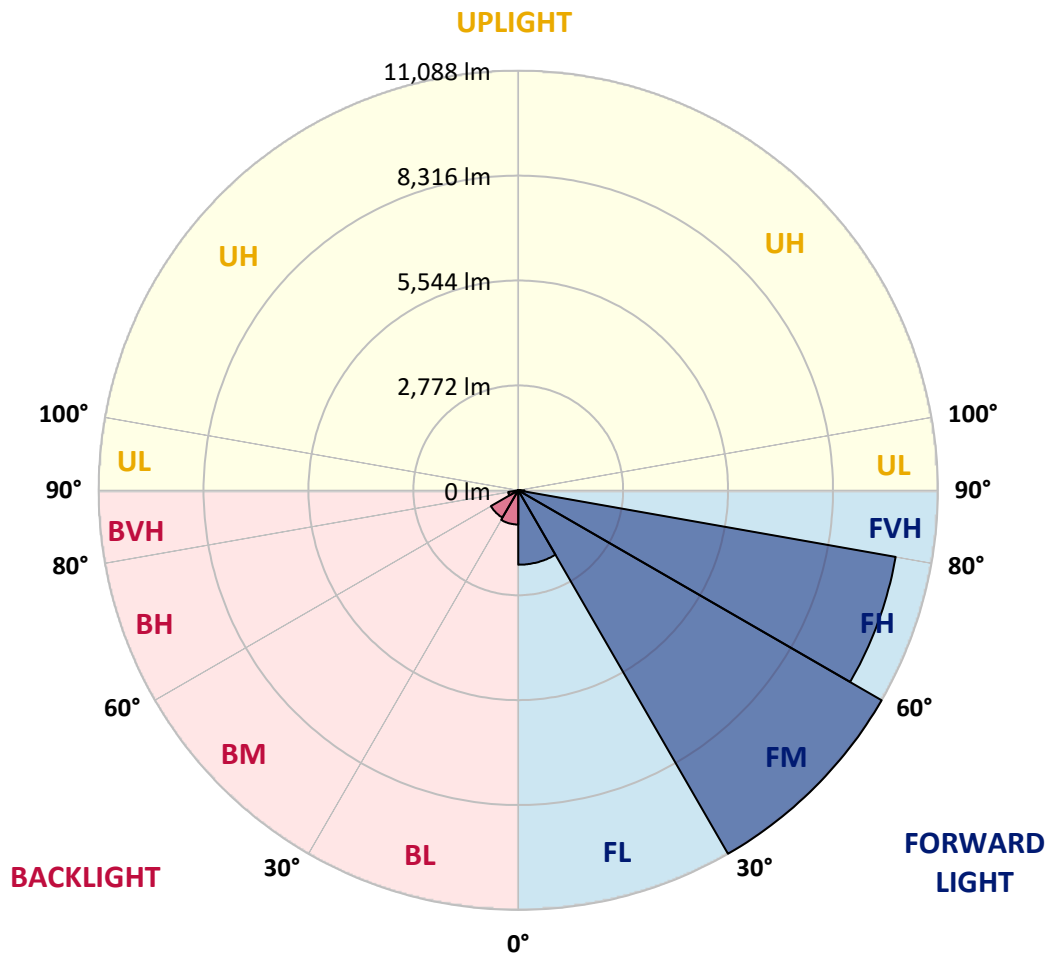


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.0	7.8			
FM (30°-60°)	11088.2	43.7			
FH (60°-80°)	10126.4	39.9			G4/12000
FVH (80°-90°)	163.2	0.6			G2/225
BL (0°-30°)	903.4	3.6	B2/1000		
BM (30°-60°)	832.2	3.3	B1/1000		
BH (60°-80°)	268.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2
2.5°	4745.8	4751.5	4772.0	4781.1	4802.7	4839.1	4857.4	4858.5	4888.1	4899.5	4908.6
5°	4410.0	4444.1	4478.3	4514.7	4580.7	4668.4	4754.9	4762.9	4858.5	4929.1	4966.6
7.5°	4120.8	4151.6	4192.6	4250.6	4344.0	4481.7	4626.3	4643.3	4824.3	4984.8	5069.1
10°	3823.7	3848.8	3908.0	3993.3	4122.0	4306.4	4501.0	4529.5	4793.6	5060.0	5208.0
12.5°	3506.1	3520.9	3592.6	3715.6	3904.5	4139.0	4395.2	4432.7	4774.3	5146.5	5371.9
15°	3264.8	3271.6	3339.9	3467.4	3683.7	3988.8	4313.2	4358.8	4778.8	5250.1	5550.6
17.5°	3203.3	3206.7	3243.2	3330.8	3522.1	3854.5	4248.3	4304.1	4792.5	5351.4	5730.5
20°	3452.6	3428.7	3391.2	3377.5	3459.5	3773.6	4209.6	4272.2	4810.7	5441.3	5892.1
22.5°	4136.8	4066.2	3910.2	3701.9	3575.6	3779.3	4219.9	4282.5	4868.7	5551.7	6078.8
25°	5152.2	5054.3	4789.0	4379.2	3985.4	3943.3	4305.2	4369.0	4981.4	5683.8	6257.5
27.5°	6307.6	6210.9	5886.4	5301.3	4629.7	4267.7	4501.0	4560.2	5148.8	5801.0	6394.1
30°	7414.1	7386.8	7004.3	6339.5	5440.2	4793.6	4753.8	4803.8	5272.8	5871.6	6502.3
32.5°	8352.1	8308.8	8001.5	7354.9	6367.9	5425.4	5050.9	5065.7	5366.2	5962.7	6643.4
35°	9221.8	9168.3	8898.5	8287.2	7319.6	6197.2	5508.5	5486.9	5570.0	6146.0	6848.3
37.5°	9981.1	10030.0	9730.6	9148.9	8173.4	6999.7	6125.5	6060.6	5888.7	6444.2	7145.4
40°	10616.3	10616.3	10460.3	9975.4	9095.4	7829.6	6823.3	6737.9	6367.9	6904.1	7522.2
42.5°	10845.1	10894.0	10952.1	10677.7	9920.7	8692.5	7600.8	7512.0	7043.0	7556.4	7998.1
45°	10858.7	10936.2	11233.3	11232.1	10666.4	9549.6	8477.3	8435.2	7908.1	8394.2	8587.7
47.5°	10666.4	10763.1	11252.6	11530.4	11257.2	10347.6	9435.8	9383.4	8924.7	9421.0	9204.7
50°	10369.3	10476.3	11045.4	11647.6	11659.0	11042.0	10445.5	10367.0	10043.7	10594.6	9842.2
52.5°	9837.6	10044.8	10859.9	11674.9	11923.1	11641.9	11406.3	11372.1	11295.9	11725.0	10349.9
55°	8700.4	8930.4	10394.3	11684.1	12167.9	12173.5	12306.7	12315.8	12469.5	12781.4	10727.8
57.5°	8163.1	8292.9	9581.5	11727.3	12531.0	12776.9	13224.2	13294.8	13532.7	13784.3	11159.3
60°	7825.0	7978.7	9180.8	11668.1	13101.3	13568.0	14074.6	14098.5	14353.5	14819.1	11743.2
62.5°	7555.2	7706.6	8928.1	11440.4	13742.2	14519.7	14905.6	14907.9	15099.1	16051.9	12406.9
65°	6889.3	7016.8	8417.0	11184.3	14165.7	15461.1	15870.9	15856.1	16012.1	17351.9	13177.6
67.5°	5926.3	6024.2	7373.1	10213.3	14006.3	16317.1	17328.0	17279.1	17090.1	18475.5	13480.4
70°	4581.9	4617.2	5811.3	8511.5	12512.8	16646.1	18736.1	18711.1	17751.5	18274.0	12370.5
71°	3787.3	3903.4	5121.4	7512.0	11512.2	16342.2	18872.7	18887.5	17585.3	17725.3	11606.6
72.5°	2199.3	2298.3	3712.2	5769.2	9773.9	15074.1	18164.7	18271.7	16808.9	16122.5	9913.9
75°	471.3	504.3	1376.3	2792.4	5376.4	10565.0	14337.6	14718.9	13700.1	10968.0	5975.2
77.5°	327.8	354.0	589.7	1267.0	1777.0	5220.5	8906.5	9336.8	8184.8	4122.0	1912.4
80°	259.5	289.1	459.9	626.1	480.4	1683.6	4172.1	4435.0	2729.8	919.8	322.2
82.5°	144.6	171.9	358.6	338.1	184.4	319.9	1167.9	1320.5	546.4	185.6	76.3
85°	42.1	51.2	231.1	245.9	78.5	61.5	199.2	247.0	103.6	48.9	34.2
87.5°	0.0	0.0	111.6	94.5	22.8	9.1	18.2	20.5	20.5	20.5	22.8
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°	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2	4889.2
2.5°	4908.6	4916.5	4888.1	4850.5	4810.7	4761.7	4710.5	4670.7	4669.5	4650.2	4630.8
5°	4968.9	4964.4	4885.8	4766.3	4625.1	4478.3	4338.3	4180.0	4127.7	4062.8	4041.2
7.5°	5080.5	5048.6	4882.4	4620.6	4310.9	4003.6	3686.0	3366.1	3229.5	3106.6	3084.9
10°	5220.5	5160.2	4860.8	4402.0	3834.0	3267.1	2787.8	2353.0	2161.7	2014.9	2008.1
12.5°	5366.2	5274.0	4800.4	4071.9	3209.0	2412.2	1860.1	1432.0	1272.7	1170.2	1179.3
15°	5518.7	5381.0	4670.7	3626.8	2497.5	1637.0	1142.9	891.3	827.6	801.4	808.2
17.5°	5674.7	5455.0	4489.7	3090.6	1795.2	1056.4	791.2	720.6	720.6	726.3	728.5
20°	5810.2	5494.8	4223.3	2489.6	1216.9	769.5	692.1	681.9	687.6	696.7	697.8
22.5°	5944.5	5497.1	3876.1	1880.6	851.5	673.9	659.1	654.6	658.0	668.2	669.4
25°	6053.8	5469.8	3441.2	1337.6	679.6	635.2	628.4	626.1	628.4	640.9	640.9
27.5°	6098.2	5370.7	2910.8	940.3	609.0	591.9	589.7	591.9	595.4	604.5	605.6
30°	6102.7	5197.7	2332.5	680.7	552.1	533.9	538.4	546.4	543.0	540.7	543.0
32.5°	6114.1	4997.4	1769.0	560.1	504.3	475.8	470.1	470.1	456.5	448.5	444.0
35°	6151.7	4761.7	1282.9	503.2	455.3	422.3	400.7	375.7	349.5	335.8	332.4
37.5°	6210.9	4514.7	918.7	465.6	412.1	374.5	333.5	289.1	251.6	241.3	241.3
40°	6319.0	4259.7	679.6	436.0	377.9	331.3	269.8	211.7	177.6	171.9	171.9
42.5°	6489.7	3991.1	541.9	409.8	348.3	286.9	206.0	153.7	128.6	125.2	124.1
45°	6667.3	3695.1	473.6	384.8	316.5	235.6	152.5	113.8	99.0	95.6	95.6
47.5°	6844.9	3379.8	440.5	360.9	285.7	183.3	113.8	89.9	83.1	83.1	84.2
50°	6995.2	3050.8	416.6	334.7	245.9	138.9	89.9	76.3	74.0	78.5	79.7
52.5°	7032.7	2727.5	387.0	301.7	196.9	105.9	74.0	67.2	67.2	67.2	67.2
55°	7010.0	2477.1	348.3	260.7	145.7	84.2	63.7	59.2	58.1	58.1	58.1
57.5°	7087.4	2329.1	278.9	202.6	104.7	68.3	55.8	52.4	50.1	48.9	48.9
60°	7243.3	2232.3	199.2	145.7	78.5	56.9	47.8	44.4	41.0	38.7	38.7
62.5°	7450.5	2148.1	148.0	108.1	60.3	45.5	39.8	36.4	31.9	29.6	29.6
65°	7609.9	1997.8	112.7	80.8	45.5	36.4	30.7	29.6	22.8	20.5	19.4
67.5°	7366.3	1667.7	91.1	59.2	34.2	28.5	23.9	22.8	13.7	11.4	11.4
70°	6317.9	1161.1	72.9	43.3	25.0	22.8	19.4	14.8	10.2	9.1	9.1
71°	5729.3	969.9	66.0	36.4	21.6	21.6	18.2	12.5	9.1	8.0	8.0
72.5°	4759.5	688.7	55.8	28.5	19.4	22.8	19.4	11.4	9.1	8.0	6.8
75°	2762.8	288.0	38.7	19.4	14.8	27.3	25.0	10.2	6.8	5.7	5.7
77.5°	831.0	105.9	21.6	12.5	11.4	23.9	28.5	9.1	3.4	1.1	1.1
80°	151.4	45.5	13.7	8.0	8.0	14.8	21.6	4.6	0.0	0.0	0.0
82.5°	53.5	22.8	8.0	4.6	3.4	6.8	10.2	0.0	0.0	0.0	0.0
85°	30.7	15.9	4.6	2.3	0.0	1.1	2.3	0.0	0.0	0.0	0.0
87.5°	20.5	4.6	0.0	0.0	0.0	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)