

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: P321551

Luminaire Tested: **GAN-SA7A-730-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321551  
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-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 23088 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

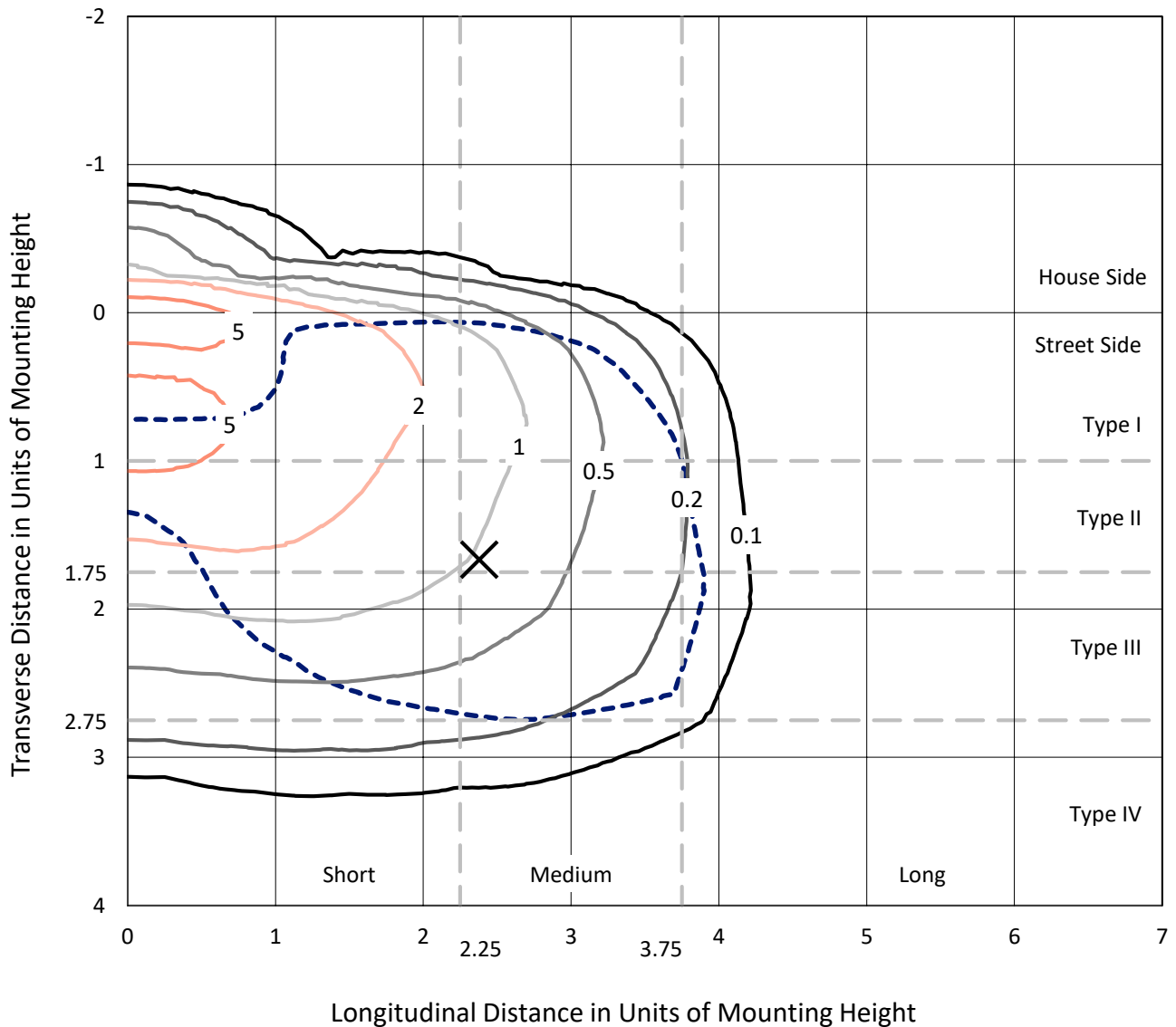
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

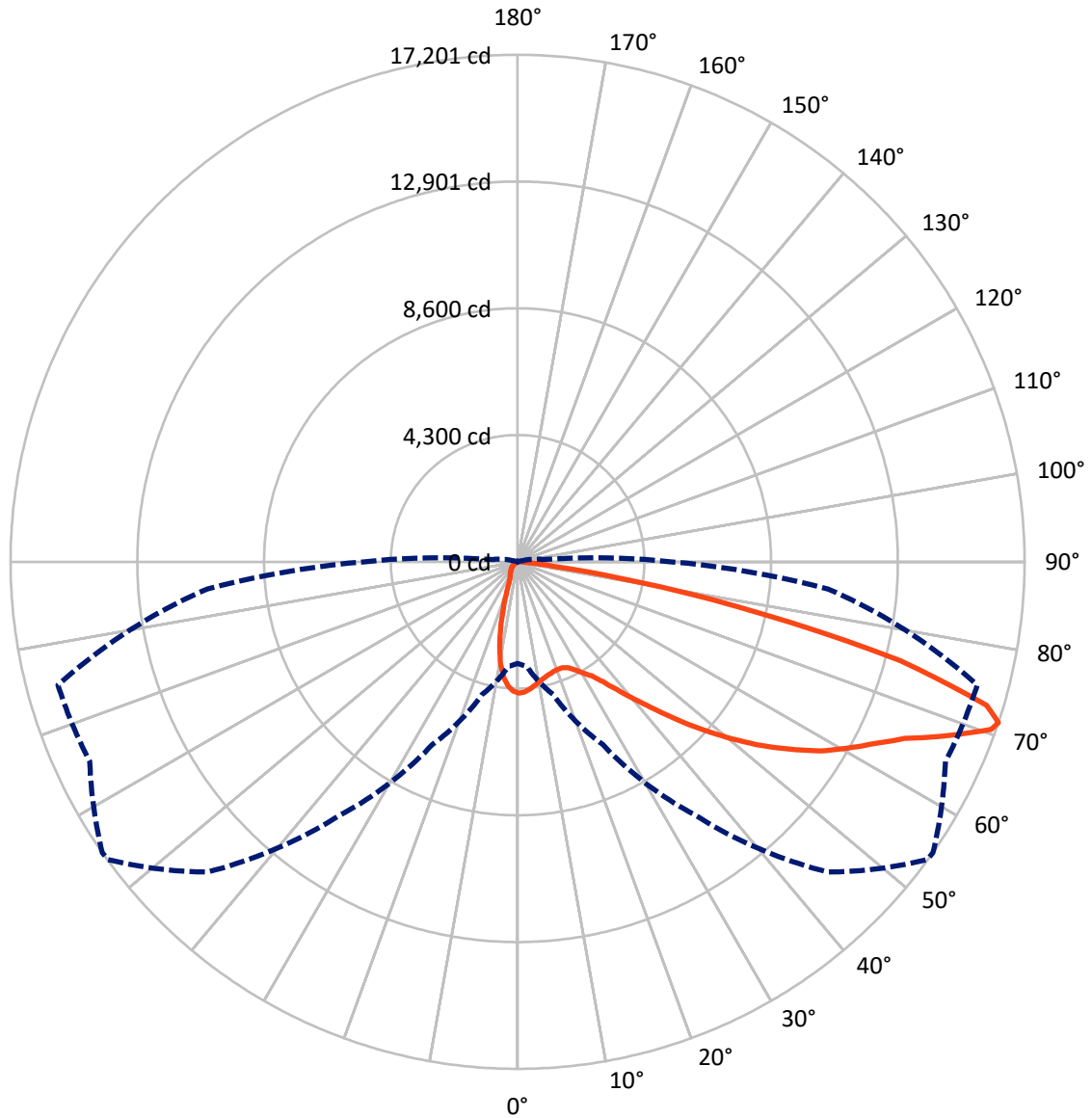
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	1827.9	0.0	1827.9
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	21260.1	0.0	21260.1
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	23088.0	0.0	23088.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.6	1.6
10°-20°	857.1	3.7
20°-30°	1377.3	6.0
30°-40°	2340.2	10.1
40°-50°	3632.3	15.7
50°-60°	4883.5	21.2
60°-70°	5974.1	25.9
70°-80°	3492.9	15.1
80°-90°	151.0	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°	23088.0	100.0
0°-180°	23088.0	100.0

**Coefficient of Utilization**

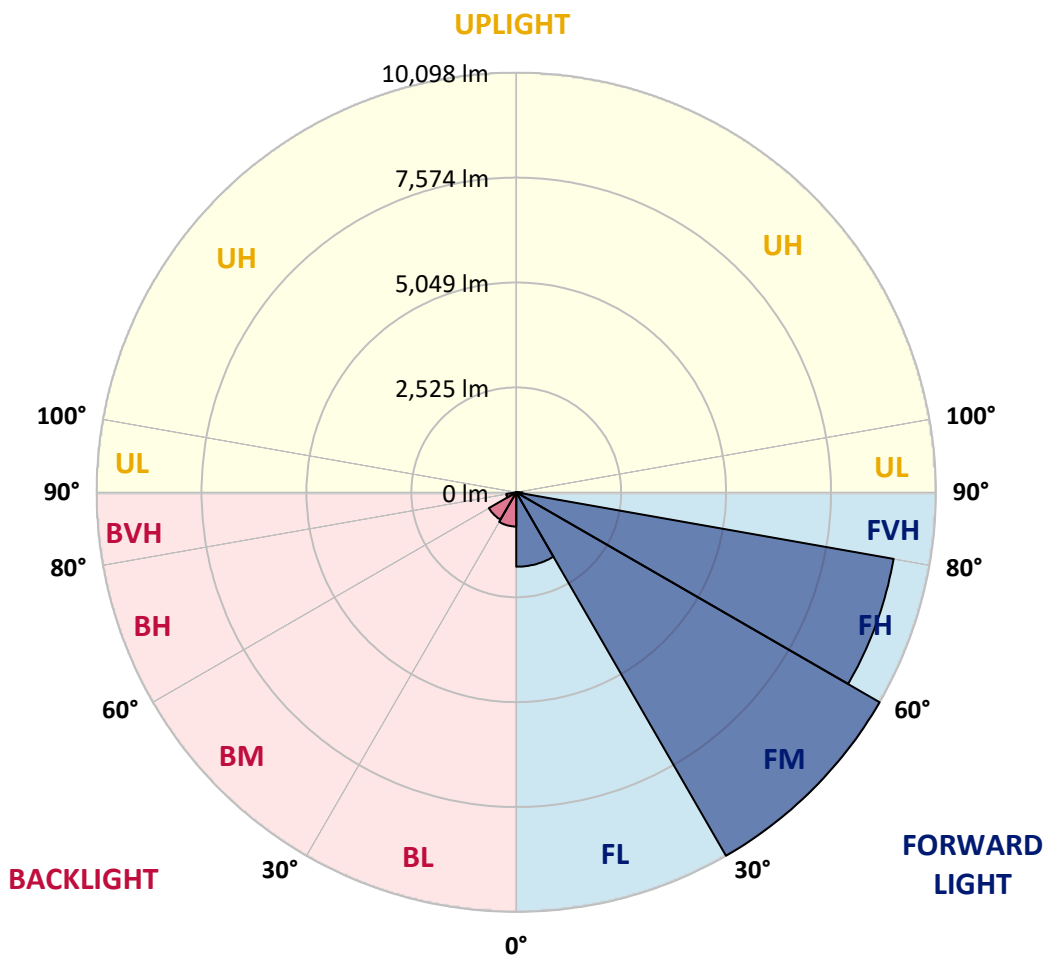


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1791.3	7.8			
FM (30°-60°)	10098.0	43.7			
FH (60°-80°)	9222.1	39.9			G4/12000
FVH (80°-90°)	148.6	0.6			G2/225
BL (0°-30°)	822.8	3.6	B2/1000		
BM (30°-60°)	757.9	3.3	B1/1000		
BH (60°-80°)	244.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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°	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6
2.5°	4322.0	4327.2	4345.8	4354.1	4373.8	4407.0	4423.6	4424.6	4451.6	4461.9	4470.2
5°	4016.2	4047.3	4078.4	4111.5	4171.7	4251.5	4330.3	4337.5	4424.6	4488.9	4523.1
7.5°	3752.8	3780.8	3818.1	3871.0	3956.0	4081.5	4213.1	4228.7	4393.5	4539.7	4616.4
10°	3482.3	3505.1	3559.0	3636.7	3753.9	3921.8	4099.1	4125.0	4365.5	4608.1	4742.9
12.5°	3193.0	3206.5	3271.8	3383.8	3555.9	3769.4	4002.7	4036.9	4347.9	4686.9	4892.2
15°	2973.2	2979.5	3041.7	3157.8	3354.7	3632.6	3928.0	3969.5	4352.0	4781.2	5054.9
17.5°	2917.3	2920.4	2953.5	3033.4	3207.5	3510.2	3868.9	3919.7	4364.5	4873.5	5218.7
20°	3144.3	3122.5	3088.3	3075.9	3150.5	3436.6	3833.7	3890.7	4381.1	4955.4	5365.9
22.5°	3767.3	3703.1	3561.0	3371.3	3256.3	3441.8	3843.0	3900.0	4433.9	5056.0	5535.9
25°	4692.1	4602.9	4361.4	3988.2	3629.5	3591.1	3920.8	3978.8	4536.6	5176.2	5698.7
27.5°	5744.3	5656.2	5360.7	4827.9	4216.2	3886.6	4099.1	4153.0	4689.0	5283.0	5823.1
30°	6752.0	6727.1	6378.8	5773.4	4954.4	4365.5	4329.2	4374.9	4802.0	5347.3	5921.6
32.5°	7606.2	7566.8	7286.9	6698.1	5799.3	4940.9	4599.8	4613.3	4887.0	5430.2	6050.2
35°	8398.3	8349.5	8103.8	7547.1	6665.9	5643.8	5016.6	4996.9	5072.5	5597.1	6236.8
37.5°	9089.7	9134.3	8861.7	8331.9	7443.5	6374.6	5578.5	5519.4	5362.8	5868.7	6507.3
40°	9668.2	9668.2	9526.2	9084.6	8283.2	7130.4	6213.9	6136.2	5799.3	6287.6	6850.5
42.5°	9876.6	9921.2	9974.0	9724.2	9034.8	7916.2	6922.0	6841.1	6414.0	6881.6	7283.8
45°	9889.0	9959.5	10230.1	10229.1	9713.8	8696.8	7720.3	7681.9	7201.9	7644.6	7820.8
47.5°	9713.8	9801.9	10247.7	10500.7	10251.9	9423.6	8593.2	8545.5	8127.7	8579.7	8382.7
50°	9443.3	9540.7	10059.0	10607.5	10617.8	10055.9	9512.7	9441.2	9146.8	9648.5	8963.3
52.5°	8959.1	9147.8	9890.1	10632.3	10858.3	10602.3	10387.7	10356.6	10287.1	10678.0	9425.6
55°	7923.5	8132.9	9466.1	10640.6	11081.2	11086.4	11207.7	11216.0	11356.0	11640.0	9769.8
57.5°	7434.1	7552.3	8725.9	10680.0	11411.9	11635.9	12043.3	12107.6	12324.2	12553.3	10162.7
60°	7126.2	7266.2	8360.9	10626.1	11931.3	12356.4	12817.7	12839.5	13071.7	13495.7	10694.5
62.5°	6880.5	7018.4	8130.8	10418.8	12515.0	13223.0	13574.5	13576.6	13750.7	14618.4	11298.9
65°	6274.1	6390.2	7665.3	10185.5	12900.6	14080.4	14453.6	14440.1	14582.1	15802.3	12000.8
67.5°	5397.0	5486.2	6714.7	9301.2	12755.5	14860.0	15780.6	15736.0	15563.9	16825.6	12276.5
70°	4172.7	4204.8	5292.3	7751.4	11395.3	15159.6	17063.0	17040.2	16166.2	16642.1	11265.8
71°	3449.1	3554.8	4664.1	6841.1	10484.1	14882.8	17187.4	17200.8	16014.9	16142.4	10570.1
72.5°	2002.9	2093.1	3380.7	5254.0	8901.1	13727.9	16542.5	16640.0	15307.8	14682.7	9028.6
75°	429.2	459.3	1253.4	2543.0	4896.3	9621.6	13057.2	13404.5	12476.6	9988.6	5441.6
77.5°	298.6	322.4	537.0	1153.8	1618.3	4754.3	8111.1	8503.0	7453.8	3753.9	1741.6
80°	236.4	263.3	418.8	570.2	437.5	1533.3	3799.5	4039.0	2486.0	837.6	293.4
82.5°	131.7	156.5	326.6	307.9	167.9	291.3	1063.6	1202.6	497.6	169.0	69.5
85°	38.4	46.7	210.4	223.9	71.5	56.0	181.4	225.0	94.3	44.6	31.1
87.5°	0.0	0.0	101.6	86.0	20.7	8.3	16.6	18.7	18.7	18.7	20.7
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°	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6	4452.6
2.5°	4470.2	4477.5	4451.6	4417.4	4381.1	4336.5	4289.8	4253.6	4252.5	4234.9	4217.3
5°	4525.2	4521.0	4449.5	4340.6	4212.1	4078.4	3950.8	3806.7	3759.1	3700.0	3680.3
7.5°	4626.8	4597.7	4446.4	4207.9	3926.0	3646.1	3356.8	3065.5	2941.1	2829.1	2809.4
10°	4754.3	4699.3	4426.7	4008.9	3491.6	2975.3	2538.9	2142.8	1968.7	1834.9	1828.7
12.5°	4887.0	4803.0	4371.7	3708.3	2922.4	2196.8	1694.0	1304.2	1159.0	1065.7	1074.0
15°	5025.9	4900.5	4253.6	3302.9	2274.5	1490.8	1040.8	811.7	753.7	729.8	736.1
17.5°	5167.9	4967.8	4088.7	2814.6	1634.9	962.1	720.5	656.2	656.2	661.4	663.5
20°	5291.3	5004.1	3846.1	2267.3	1108.2	700.8	630.3	621.0	626.2	634.5	635.5
22.5°	5413.6	5006.2	3529.9	1712.6	775.4	613.7	600.2	596.1	599.2	608.5	609.6
25°	5513.1	4981.3	3133.9	1218.1	618.9	578.5	572.3	570.2	572.3	583.7	583.7
27.5°	5553.6	4891.1	2650.8	856.3	554.6	539.1	537.0	539.1	542.2	550.5	551.5
30°	5557.7	4733.5	2124.2	619.9	502.8	486.2	490.4	497.6	494.5	492.4	494.5
32.5°	5568.1	4551.1	1611.0	510.1	459.3	433.3	428.2	428.2	415.7	408.5	404.3
35°	5602.3	4336.5	1168.4	458.2	414.7	384.6	364.9	342.1	318.3	305.8	302.7
37.5°	5656.2	4111.5	836.6	424.0	375.3	341.1	303.8	263.3	229.1	219.8	219.8
40°	5754.7	3879.3	618.9	397.1	344.2	301.7	245.7	192.8	161.7	156.5	156.5
42.5°	5910.2	3634.7	493.5	373.2	317.2	261.2	187.6	140.0	117.1	114.0	113.0
45°	6071.9	3365.1	431.3	350.4	288.2	214.6	138.9	103.7	90.2	87.1	87.1
47.5°	6233.6	3077.9	401.2	328.6	260.2	166.9	103.7	81.9	75.7	75.7	76.7
50°	6370.5	2778.3	379.4	304.8	223.9	126.5	81.9	69.5	67.4	71.5	72.6
52.5°	6404.7	2483.9	352.5	274.7	179.3	96.4	67.4	61.2	61.2	61.2	61.2
55°	6384.0	2255.8	317.2	237.4	132.7	76.7	58.1	53.9	52.9	52.9	52.9
57.5°	6454.5	2121.1	254.0	184.5	95.4	62.2	50.8	47.7	45.6	44.6	44.6
60°	6596.5	2033.0	181.4	132.7	71.5	51.8	43.5	40.4	37.3	35.2	35.2
62.5°	6785.2	1956.2	134.8	98.5	54.9	41.5	36.3	33.2	29.0	27.0	27.0
65°	6930.3	1819.4	102.6	73.6	41.5	33.2	28.0	27.0	20.7	18.7	17.6
67.5°	6708.5	1518.8	82.9	53.9	31.1	25.9	21.8	20.7	12.4	10.4	10.4
70°	5753.7	1057.4	66.3	39.4	22.8	20.7	17.6	13.5	9.3	8.3	8.3
71°	5217.7	883.3	60.1	33.2	19.7	19.7	16.6	11.4	8.3	7.3	7.3
72.5°	4334.4	627.2	50.8	25.9	17.6	20.7	17.6	10.4	8.3	7.3	6.2
75°	2516.1	262.3	35.2	17.6	13.5	24.9	22.8	9.3	6.2	5.2	5.2
77.5°	756.8	96.4	19.7	11.4	10.4	21.8	25.9	8.3	3.1	1.0	1.0
80°	137.9	41.5	12.4	7.3	7.3	13.5	19.7	4.1	0.0	0.0	0.0
82.5°	48.7	20.7	7.3	4.1	3.1	6.2	9.3	0.0	0.0	0.0	0.0
85°	28.0	14.5	4.1	2.1	0.0	1.0	2.1	0.0	0.0	0.0	0.0
87.5°	18.7	4.1	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)