

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: P322514

Luminaire Tested: **GAN-SA0A-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0A-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29831 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

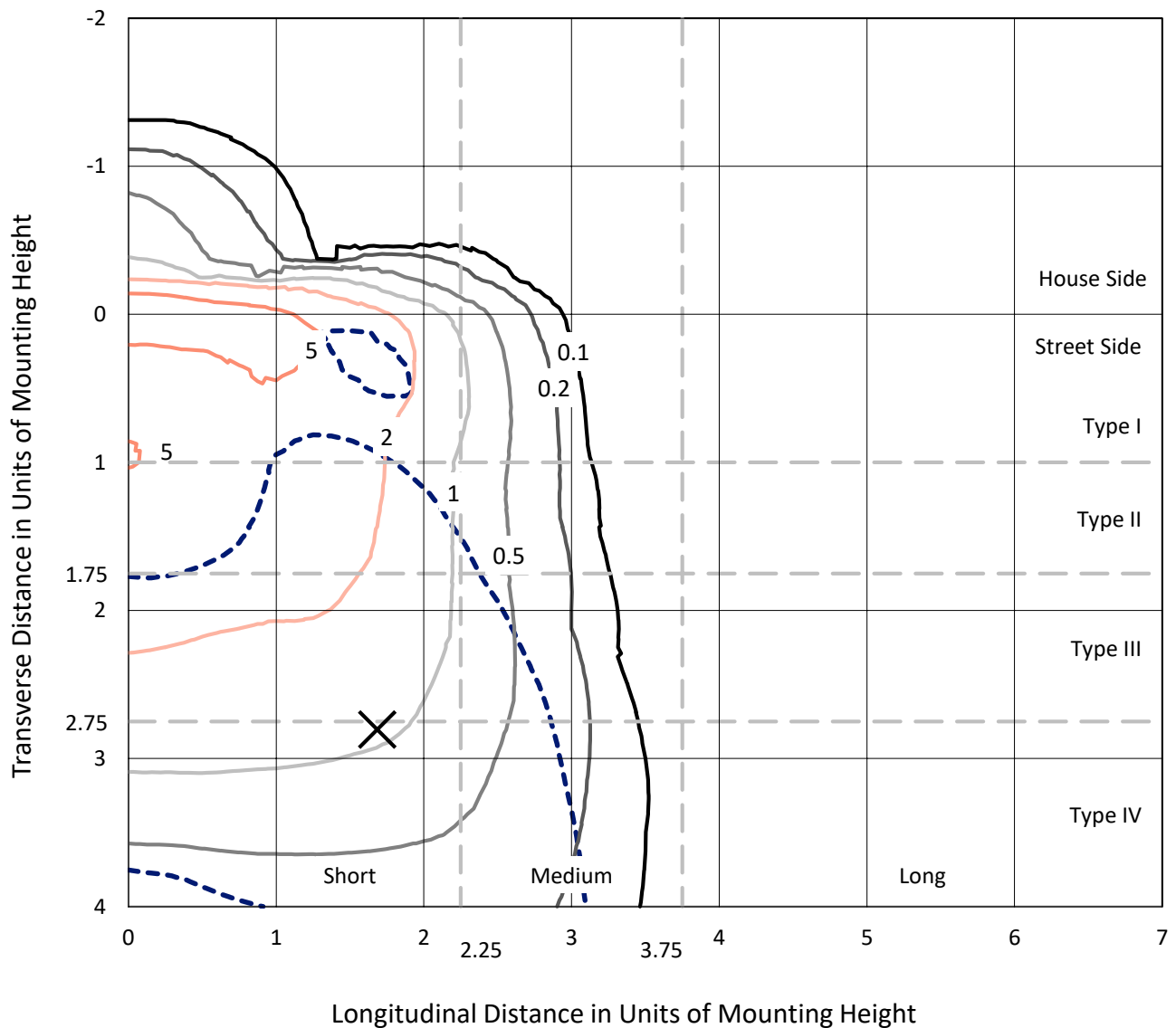
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

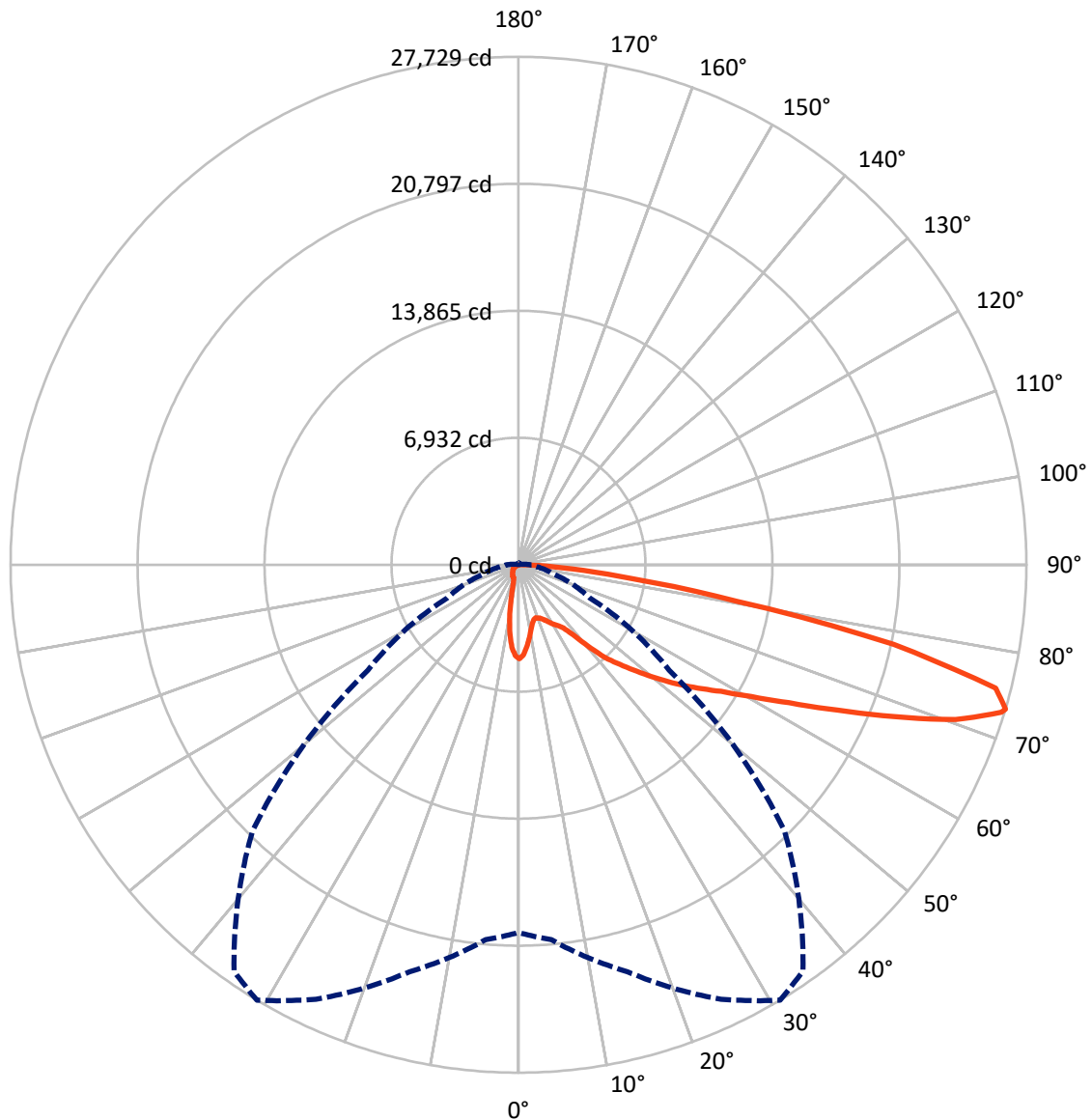
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2719.2	0.0	2719.2
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	27111.8	0.0	27111.8
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	29831.0	0.0	29831.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.6	1.4
10°-20°	924.0	3.1
20°-30°	1384.4	4.6
30°-40°	2202.6	7.4
40°-50°	3933.3	13.2
50°-60°	6103.3	20.5
60°-70°	8113.5	27.2
70°-80°	6103.0	20.5
80°-90°	641.3	2.1
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°	29831.0	100.0
0°-180°	29831.0	100.0

**Coefficient of Utilization**

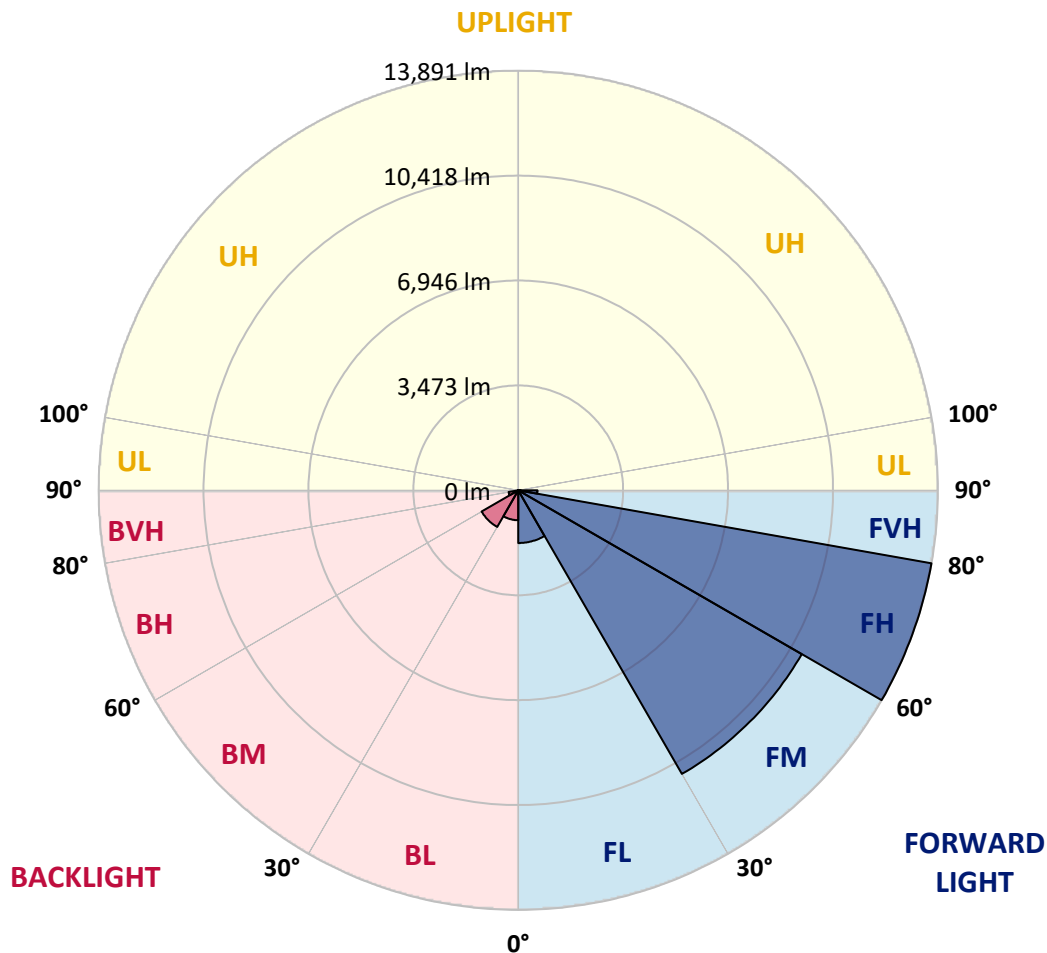


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 CATALOG NUMBER: GAN-SA0A-730-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1745.2	5.9			
FM (30°-60°)	10839.5	36.3			
FH (60°-80°)	13891.2	46.6			G5
FVH (80°-90°)	635.9	2.1			G4/750
BL (0°-30°)	988.8	3.3	B2/1000		
BM (30°-60°)	1399.7	4.7	B2/2500		
BH (60°-80°)	325.3	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5
2.5°	4863.9	4884.3	4906.2	4910.6	4947.1	4948.6	5001.1	5040.5	5079.9	5117.9	5131.0
5°	4364.7	4398.2	4437.6	4477.1	4554.4	4585.1	4713.5	4844.9	4970.5	5090.2	5148.5
7.5°	3831.8	3869.8	3925.3	4023.1	4109.2	4169.0	4372.0	4605.5	4839.1	5059.5	5186.5
10°	3345.7	3380.8	3439.2	3542.8	3675.7	3757.4	4030.4	4354.4	4697.5	5031.8	5243.4
12.5°	3036.3	3055.3	3087.4	3198.3	3318.0	3410.0	3731.1	4132.6	4580.7	5030.3	5335.4
15°	2979.4	2985.2	2958.9	3008.5	3102.0	3191.0	3516.5	3953.0	4491.7	5053.7	5455.1
17.5°	3069.9	3066.9	2979.4	2973.5	3048.0	3120.9	3411.4	3828.9	4428.9	5107.7	5609.8
20°	3207.1	3196.9	3045.0	3017.3	3096.1	3164.7	3404.1	3782.2	4405.5	5198.2	5798.1
22.5°	3389.5	3372.0	3134.1	3104.9	3189.6	3261.1	3494.6	3827.5	4426.0	5319.3	6017.1
25°	3615.8	3589.5	3287.4	3255.2	3341.4	3412.9	3656.7	3957.4	4487.3	5466.8	6294.4
27.5°	3871.3	3833.3	3532.6	3449.4	3547.2	3621.6	3872.7	4155.9	4583.6	5623.0	6634.6
30°	4112.1	4062.5	3791.0	3653.8	3773.5	3856.7	4106.3	4392.4	4738.4	5863.8	7100.2
32.5°	4354.4	4299.0	4021.6	3858.1	3966.1	4056.6	4347.1	4717.9	5028.8	6231.7	7719.2
35°	4912.1	4853.7	4513.6	4243.5	4242.0	4293.1	4684.3	5163.1	5412.8	6744.0	8457.8
37.5°	5850.7	5817.1	5493.0	4980.7	4843.5	4786.5	5144.2	5694.5	5964.5	7449.1	9291.3
40°	6878.3	6849.2	6485.7	6021.5	5812.7	5672.6	5804.0	6434.6	6744.0	8310.4	10142.4
42.5°	8038.8	7900.2	7252.0	7113.4	6926.5	6820.0	6701.7	7346.9	7701.6	9247.5	10986.1
45°	9092.8	8859.2	8018.4	7808.2	7765.9	7792.2	7857.8	8573.1	8778.9	10361.3	11826.9
47.5°	9720.5	9536.6	8891.3	8689.9	8678.2	8851.9	9348.2	9958.4	9851.9	11332.0	12567.0
50°	10317.5	10151.1	9615.4	9665.0	9719.0	9955.5	11040.1	11383.1	10831.4	12212.3	13245.8
52.5°	10800.7	10546.7	10266.4	10545.2	10810.9	11191.9	12786.0	12661.9	11526.2	12913.0	13826.8
55°	11079.5	10964.2	11099.9	11380.2	11879.5	12498.4	14434.0	13726.0	12034.2	13552.3	14213.6
57.5°	12101.3	11875.1	12145.1	12387.4	13038.5	13904.1	15845.6	14518.7	12400.6	13947.9	14302.6
60°	13337.7	13155.3	13314.4	13717.3	14596.1	15613.5	17165.2	15165.4	12591.8	14201.9	14072.0
62.5°	15305.5	15064.6	14965.4	15416.4	16581.3	17692.2	18166.6	15613.5	12549.5	14089.5	13280.8
65°	17941.8	17692.2	17248.4	17657.1	19138.8	19922.7	19286.2	15708.4	12257.5	13180.1	11281.0
67.5°	20642.3	20461.3	20081.8	20770.8	22107.9	22360.5	20470.1	15477.7	11317.4	10686.8	7970.2
70°	22426.2	22348.8	22595.5	24119.5	25312.1	25239.1	21556.1	14238.4	8821.3	6571.8	3942.8
72.5°	21140.1	21510.9	23332.7	26096.0	27552.8	26957.2	20998.5	10933.5	5042.0	2528.3	1140.1
73°	20074.5	20548.9	23001.3	26170.4	27729.4	27076.9	20529.9	10035.8	4297.5	1995.5	864.2
75°	13965.4	14547.9	19042.5	24373.5	26903.2	25798.2	17112.7	6142.6	1991.1	884.6	348.9
77.5°	6780.5	7211.2	10485.4	17610.4	20922.6	20156.2	10653.3	2288.9	899.2	553.2	160.6
80°	2531.2	2814.4	4551.5	8962.9	12091.1	12407.9	4685.8	865.6	598.5	445.2	81.7
82.5°	662.7	738.6	1678.7	3996.8	6196.6	6485.7	1477.3	436.5	437.9	366.4	49.6
85°	211.7	242.3	524.1	1794.0	2919.5	2563.3	385.4	211.7	318.2	273.0	27.7
87.5°	26.3	33.6	166.4	421.9	643.8	357.6	59.8	62.8	135.8	151.8	16.1
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°	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5	5132.5
2.5°	5144.2	5136.9	5138.3	5100.4	5075.6	5025.9	4974.8	4951.5	4926.7	4916.4	4926.7
5°	5170.4	5157.3	5119.3	5002.6	4878.5	4717.9	4567.6	4453.7	4310.6	4271.2	4312.1
7.5°	5211.3	5185.0	5074.1	4836.2	4560.3	4253.7	3909.2	3658.1	3452.3	3319.5	3367.6
10°	5271.2	5221.5	4998.2	4593.8	4100.4	3557.4	3068.4	2687.4	2417.3	2306.4	2302.0
12.5°	5371.9	5278.5	4904.8	4278.5	3538.4	2814.4	2173.6	1760.5	1541.5	1399.9	1397.0
15°	5482.8	5345.6	4786.5	3900.5	2884.5	2015.9	1399.9	1086.1	944.5	899.2	893.4
17.5°	5618.6	5423.0	4633.2	3434.8	2199.8	1335.7	913.8	823.3	817.5	813.1	813.1
20°	5789.4	5514.9	4436.2	2902.0	1560.5	891.9	776.6	782.4	785.3	779.5	781.0
22.5°	5987.9	5608.4	4201.2	2329.8	1055.4	745.9	743.0	750.3	753.2	750.3	751.8
25°	6218.5	5716.4	3915.1	1729.8	762.0	708.0	715.3	725.5	732.8	732.8	732.8
27.5°	6504.7	5847.8	3570.6	1207.2	658.3	668.6	689.0	708.0	718.2	721.1	721.1
30°	6876.9	6011.3	3157.4	827.7	598.5	616.0	654.0	690.5	709.4	712.4	713.8
32.5°	7346.9	6195.2	2678.6	611.6	547.4	560.5	601.4	662.7	699.2	705.1	705.1
35°	7885.6	6408.3	2163.4	532.8	510.9	515.3	547.4	617.5	681.7	697.8	699.2
37.5°	8475.3	6618.5	1645.1	497.8	480.3	480.3	503.6	563.5	639.4	689.0	694.8
40°	9025.6	6745.5	1153.2	470.0	452.5	452.5	473.0	516.8	588.3	662.7	678.8
42.5°	9533.6	6789.3	802.9	443.8	426.2	430.6	448.1	483.2	537.2	611.6	626.2
45°	10056.2	6782.0	585.4	413.1	400.0	413.1	426.2	452.5	491.9	534.3	537.2
47.5°	10450.4	6720.7	464.2	383.9	375.2	392.7	404.4	421.9	443.8	440.8	440.8
50°	10819.7	6571.8	373.7	344.5	350.3	370.8	376.6	382.5	383.9	356.2	353.3
52.5°	11099.9	6339.7	299.2	302.2	325.5	346.0	340.1	331.4	316.8	283.2	277.4
55°	11193.4	5893.0	235.0	249.6	289.0	315.3	293.4	274.4	246.7	219.0	213.1
57.5°	11024.0	5316.4	191.2	194.1	243.8	265.7	240.9	219.0	188.3	165.0	160.6
60°	10664.9	4675.6	157.7	146.0	188.3	207.3	191.2	169.3	141.6	124.1	122.6
62.5°	9952.6	3992.4	129.9	113.9	143.1	159.1	148.9	132.8	109.5	97.8	96.3
65°	8454.9	3193.9	105.1	92.0	110.9	124.1	115.3	103.6	86.1	77.4	75.9
67.5°	5901.8	2159.0	86.1	75.9	87.6	97.8	90.5	84.7	68.6	67.1	68.6
70°	2846.5	1040.8	71.5	61.3	68.6	75.9	73.0	68.6	65.7	75.9	87.6
72.5°	816.0	348.9	56.9	51.1	55.5	59.8	62.8	61.3	71.5	92.0	106.6
73°	627.7	281.7	54.0	48.2	52.6	58.4	61.3	59.8	73.0	93.4	106.6
75°	268.6	135.8	40.9	39.4	43.8	51.1	54.0	54.0	73.0	94.9	102.2
77.5°	121.2	73.0	26.3	30.7	38.0	40.9	45.3	45.3	58.4	73.0	73.0
80°	68.6	39.4	20.4	23.4	27.7	27.7	27.7	24.8	26.3	29.2	32.1
82.5°	43.8	26.3	16.1	19.0	17.5	14.6	11.7	11.7	10.2	11.7	14.6
85°	24.8	14.6	14.6	11.7	7.3	5.8	7.3	5.8	1.5	0.0	1.5
87.5°	14.6	8.8	4.4	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)