

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: P322521

Luminaire Tested: **GAN-SA7B-730-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322521  
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-SA7B-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA 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: 26141 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

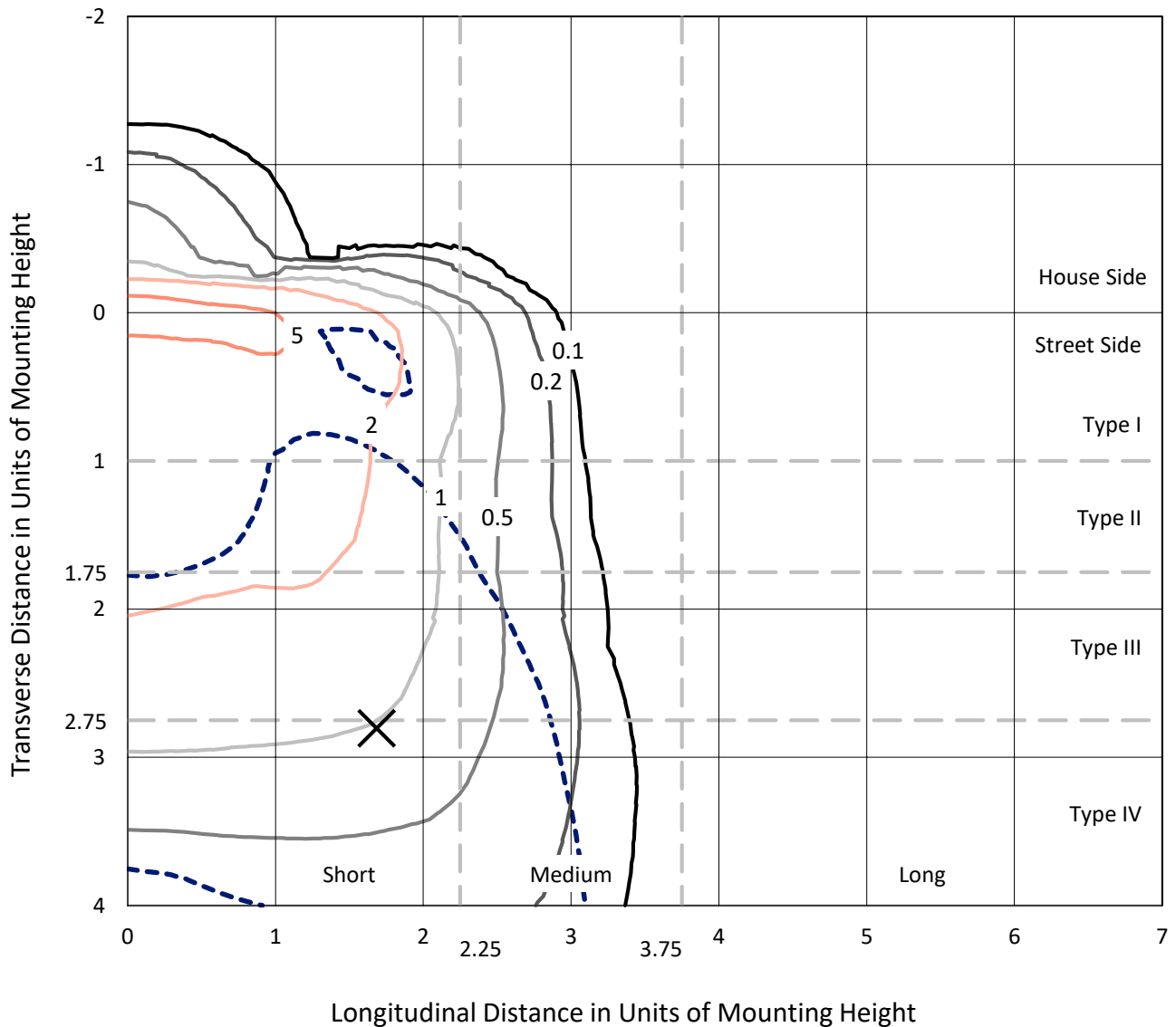
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

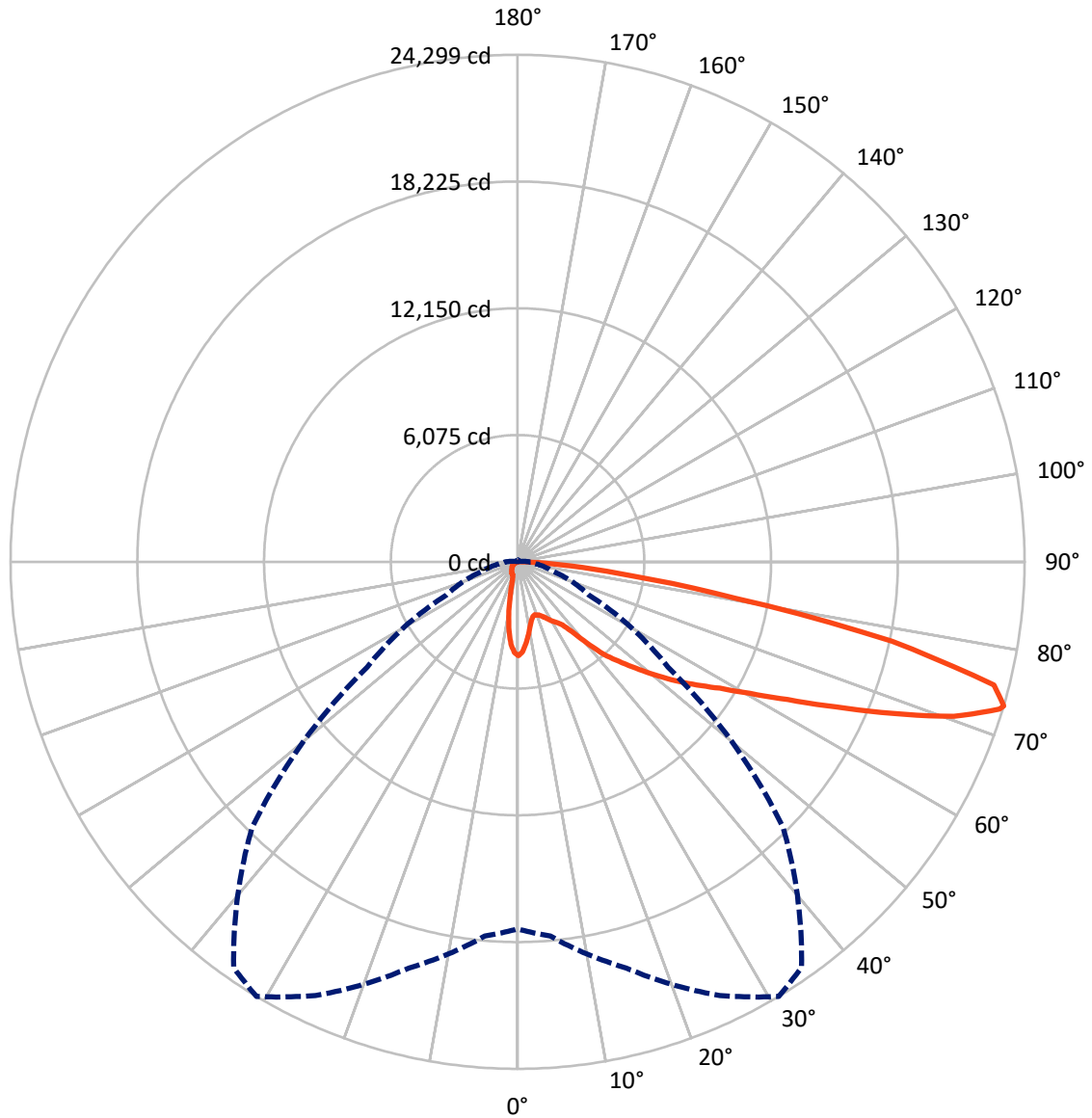
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	2382.9	0.0	2382.9
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	23758.2	0.0	23758.2
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	26141.0	0.0	26141.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.9	1.4
10°-20°	809.7	3.1
20°-30°	1213.2	4.6
30°-40°	1930.2	7.4
40°-50°	3446.7	13.2
50°-60°	5348.4	20.5
60°-70°	7109.9	27.2
70°-80°	5348.1	20.5
80°-90°	562.0	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°	26141.0	100.0
0°-180°	26141.0	100.0

**Coefficient of Utilization**



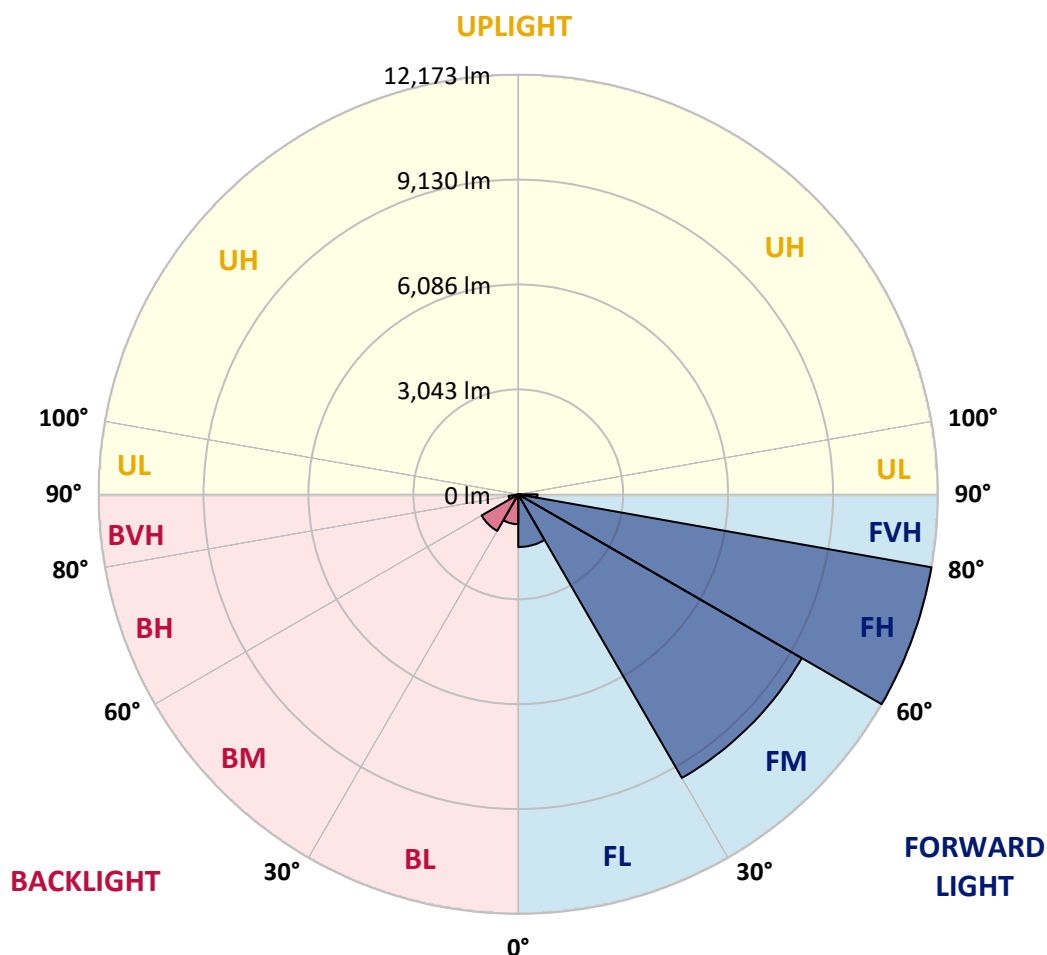
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.3	5.9			
FM (30°-60°)	9498.7	36.3			
FH (60°-80°)	12172.9	46.6			G5
FVH (80°-90°)	557.2	2.1			G4/750
BL (0°-30°)	866.5	3.3	B2/1000		
BM (30°-60°)	1226.5	4.7	B2/2500		
BH (60°-80°)	285.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.7	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°	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6
2.5°	4262.2	4280.2	4299.3	4303.2	4335.2	4336.4	4382.5	4417.0	4451.6	4484.8	4496.3
5°	3824.8	3854.2	3888.7	3923.3	3991.1	4017.9	4130.5	4245.6	4355.6	4460.5	4511.7
7.5°	3357.9	3391.1	3439.7	3525.4	3600.9	3653.4	3831.2	4035.8	4240.5	4433.7	4544.9
10°	2931.9	2962.6	3013.8	3104.6	3221.0	3292.6	3531.8	3815.8	4116.4	4409.3	4594.8
12.5°	2660.7	2677.3	2705.5	2802.7	2907.6	2988.2	3269.6	3621.4	4014.1	4408.1	4675.4
15°	2610.8	2615.9	2592.9	2636.4	2718.3	2796.3	3081.6	3464.0	3936.1	4428.5	4780.3
17.5°	2690.1	2687.6	2610.8	2605.7	2670.9	2734.9	2989.5	3355.3	3881.0	4475.9	4915.9
20°	2810.4	2801.4	2668.4	2644.1	2713.2	2773.3	2983.1	3314.4	3860.6	4555.2	5080.9
22.5°	2970.3	2954.9	2746.4	2720.8	2795.0	2857.7	3062.4	3354.0	3878.5	4661.3	5272.8
25°	3168.5	3145.5	2880.7	2852.6	2928.1	2990.7	3204.4	3467.9	3932.2	4790.5	5515.8
27.5°	3392.4	3359.1	3095.6	3022.7	3108.4	3173.7	3393.7	3641.8	4016.6	4927.4	5813.9
30°	3603.5	3560.0	3322.0	3201.8	3306.7	3379.6	3598.3	3849.1	4152.2	5138.5	6222.0
32.5°	3815.8	3767.2	3524.2	3380.9	3475.5	3554.9	3809.4	4134.3	4406.8	5460.8	6764.3
35°	4304.5	4253.3	3955.2	3718.6	3717.3	3762.1	4104.9	4524.5	4743.2	5909.8	7411.6
37.5°	5127.0	5097.6	4813.6	4364.6	4244.3	4194.4	4507.8	4990.1	5226.7	6527.7	8142.0
40°	6027.5	6001.9	5683.4	5276.6	5093.7	4970.9	5086.0	5638.6	5909.8	7282.4	8887.8
42.5°	7044.5	6922.9	6355.0	6233.5	6069.7	5976.3	5872.7	6438.1	6749.0	8103.6	9627.1
45°	7968.0	7763.4	7026.6	6842.4	6805.3	6828.3	6885.9	7512.7	7693.0	9079.7	10364.0
47.5°	8518.1	8356.9	7791.5	7615.0	7604.8	7757.0	8191.9	8726.6	8633.2	9930.3	11012.5
50°	9041.3	8895.4	8426.0	8469.5	8516.8	8724.0	9674.5	9975.1	9491.5	10701.7	11607.3
52.5°	9464.7	9242.1	8996.5	9240.8	9473.6	9807.5	11204.4	11095.6	10100.4	11315.7	12116.4
55°	9709.0	9608.0	9726.9	9972.5	10410.0	10952.4	12648.6	12028.2	10545.6	11875.9	12455.4
57.5°	10604.4	10406.2	10642.8	10855.2	11425.7	12184.2	13885.5	12722.8	10866.7	12222.6	12533.4
60°	11687.9	11528.0	11667.4	12020.5	12790.6	13682.2	15041.9	13289.4	11034.2	12445.2	12331.3
62.5°	13412.2	13201.2	13114.2	13509.5	14530.3	15503.7	15919.5	13682.2	10997.1	12346.7	11638.0
65°	15722.5	15503.7	15114.8	15473.0	16771.4	17458.3	16900.6	13765.3	10741.3	11549.8	9885.5
67.5°	18088.9	17930.3	17597.7	18201.5	19373.2	19594.5	17938.0	13563.2	9917.5	9364.9	6984.3
70°	19652.1	19584.3	19800.5	21136.0	22181.1	22117.1	18889.7	12477.2	7730.1	5758.9	3455.1
72.5°	18525.1	18850.1	20446.5	22868.0	24144.6	23622.7	18401.1	9581.1	4418.3	2215.5	999.0
73°	17591.3	18007.1	20156.1	22933.2	24299.4	23727.6	17990.5	8794.4	3765.9	1748.6	757.3
75°	12238.0	12748.4	16687.0	21358.5	23575.4	22607.0	14995.9	5382.8	1744.8	775.2	305.7
77.5°	5941.8	6319.2	9188.4	15432.1	18334.6	17663.0	9335.5	2005.8	788.0	484.8	140.7
80°	2218.1	2466.3	3988.5	7854.2	10595.5	10873.1	4106.2	758.6	524.5	390.2	71.6
82.5°	580.7	647.3	1471.1	3502.4	5430.1	5683.4	1294.5	382.5	383.8	321.1	43.5
85°	185.5	212.3	459.2	1572.1	2558.4	2246.2	337.7	185.5	278.9	239.2	24.3
87.5°	23.0	29.4	145.8	369.7	564.1	313.4	52.4	55.0	119.0	133.0	14.1
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°	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6	4497.6
2.5°	4507.8	4501.5	4502.7	4469.5	4447.7	4404.2	4359.5	4339.0	4317.2	4308.3	4317.2
5°	4530.9	4519.4	4486.1	4383.8	4275.0	4134.3	4002.6	3902.8	3777.4	3742.9	3778.7
7.5°	4566.7	4543.7	4446.4	4237.9	3996.2	3727.5	3425.7	3205.6	3025.3	2908.9	2951.1
10°	4619.1	4575.6	4379.9	4025.6	3593.2	3117.4	2688.8	2355.0	2118.3	2021.1	2017.3
12.5°	4707.4	4625.5	4298.1	3749.3	3100.7	2466.3	1904.7	1542.7	1350.8	1226.7	1224.2
15°	4804.6	4684.4	4194.4	3418.0	2527.7	1766.6	1226.7	951.7	827.6	788.0	782.9
17.5°	4923.6	4752.2	4060.1	3009.9	1927.7	1170.5	800.8	721.5	716.3	712.5	712.5
20°	5073.2	4832.8	3887.4	2543.0	1367.4	781.6	680.5	685.6	688.2	683.1	684.4
22.5°	5247.2	4914.6	3681.5	2041.6	924.9	653.7	651.1	657.5	660.1	657.5	658.8
25°	5449.3	5009.3	3430.8	1515.8	667.7	620.4	626.8	635.8	642.2	642.2	642.2
27.5°	5700.0	5124.4	3128.9	1057.9	576.9	585.9	603.8	620.4	629.4	631.9	631.9
30°	6026.2	5267.7	2766.9	725.3	524.5	539.8	573.1	605.1	621.7	624.2	625.5
32.5°	6438.1	5428.9	2347.3	536.0	479.7	491.2	527.0	580.7	612.7	617.8	617.8
35°	6910.2	5615.6	1895.8	466.9	447.7	451.6	479.7	541.1	597.4	611.5	612.7
37.5°	7426.9	5799.8	1441.6	436.2	420.9	420.9	441.3	493.8	560.3	603.8	608.9
40°	7909.2	5911.1	1010.6	411.9	396.5	396.5	414.5	452.8	515.5	580.7	594.8
42.5°	8354.4	5949.5	703.6	388.9	373.5	377.4	392.7	423.4	470.7	536.0	548.8
45°	8812.3	5943.1	513.0	362.0	350.5	362.0	373.5	396.5	431.1	468.2	470.7
47.5°	9157.7	5889.4	406.8	336.4	328.8	344.1	354.3	369.7	388.9	386.3	386.3
50°	9481.3	5758.9	327.5	301.9	307.0	324.9	330.0	335.1	336.4	312.1	309.6
52.5°	9726.9	5555.5	262.2	264.8	285.3	303.2	298.0	290.4	277.6	248.2	243.0
55°	9808.8	5164.1	205.9	218.7	253.3	276.3	257.1	240.5	216.2	191.9	186.8
57.5°	9660.4	4658.8	167.6	170.1	213.6	232.8	211.1	191.9	165.0	144.5	140.7
60°	9345.7	4097.2	138.2	127.9	165.0	181.6	167.6	148.4	124.1	108.7	107.5
62.5°	8721.5	3498.6	113.8	99.8	125.4	139.4	130.5	116.4	95.9	85.7	84.4
65°	7409.0	2798.9	92.1	80.6	97.2	108.7	101.1	90.8	75.5	67.8	66.5
67.5°	5171.7	1891.9	75.5	66.5	76.8	85.7	79.3	74.2	60.1	58.8	60.1
70°	2494.4	912.1	62.7	53.7	60.1	66.5	64.0	60.1	57.6	66.5	76.8
72.5°	715.1	305.7	49.9	44.8	48.6	52.4	55.0	53.7	62.7	80.6	93.4
73°	550.0	246.9	47.3	42.2	46.1	51.2	53.7	52.4	64.0	81.9	93.4
75°	235.4	119.0	35.8	34.5	38.4	44.8	47.3	47.3	64.0	83.1	89.5
77.5°	106.2	64.0	23.0	26.9	33.3	35.8	39.7	39.7	51.2	64.0	64.0
80°	60.1	34.5	17.9	20.5	24.3	24.3	24.3	21.7	23.0	25.6	28.1
82.5°	38.4	23.0	14.1	16.6	15.4	12.8	10.2	10.2	9.0	10.2	12.8
85°	21.7	12.8	12.8	10.2	6.4	5.1	6.4	5.1	1.3	0.0	1.3
87.5°	12.8	7.7	3.8	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)