

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: P478951

Luminaire Tested: **IFLD-S-SA6A-740-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478951  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-740-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ  
distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

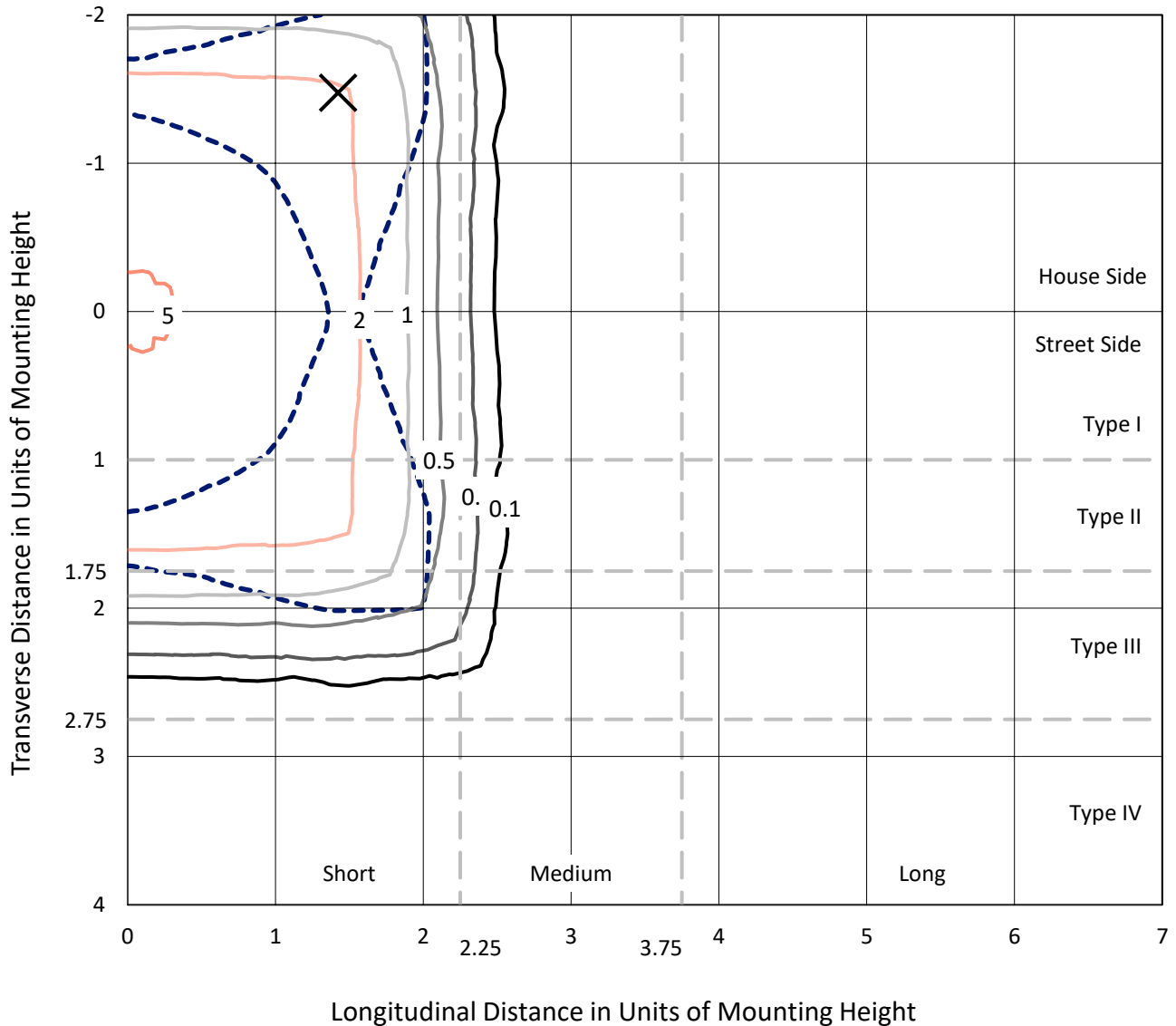
Lumens per Lamp: N/A  
Luminaire Lumens: 26919 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 189.6  
Input Voltage (V): 120  
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

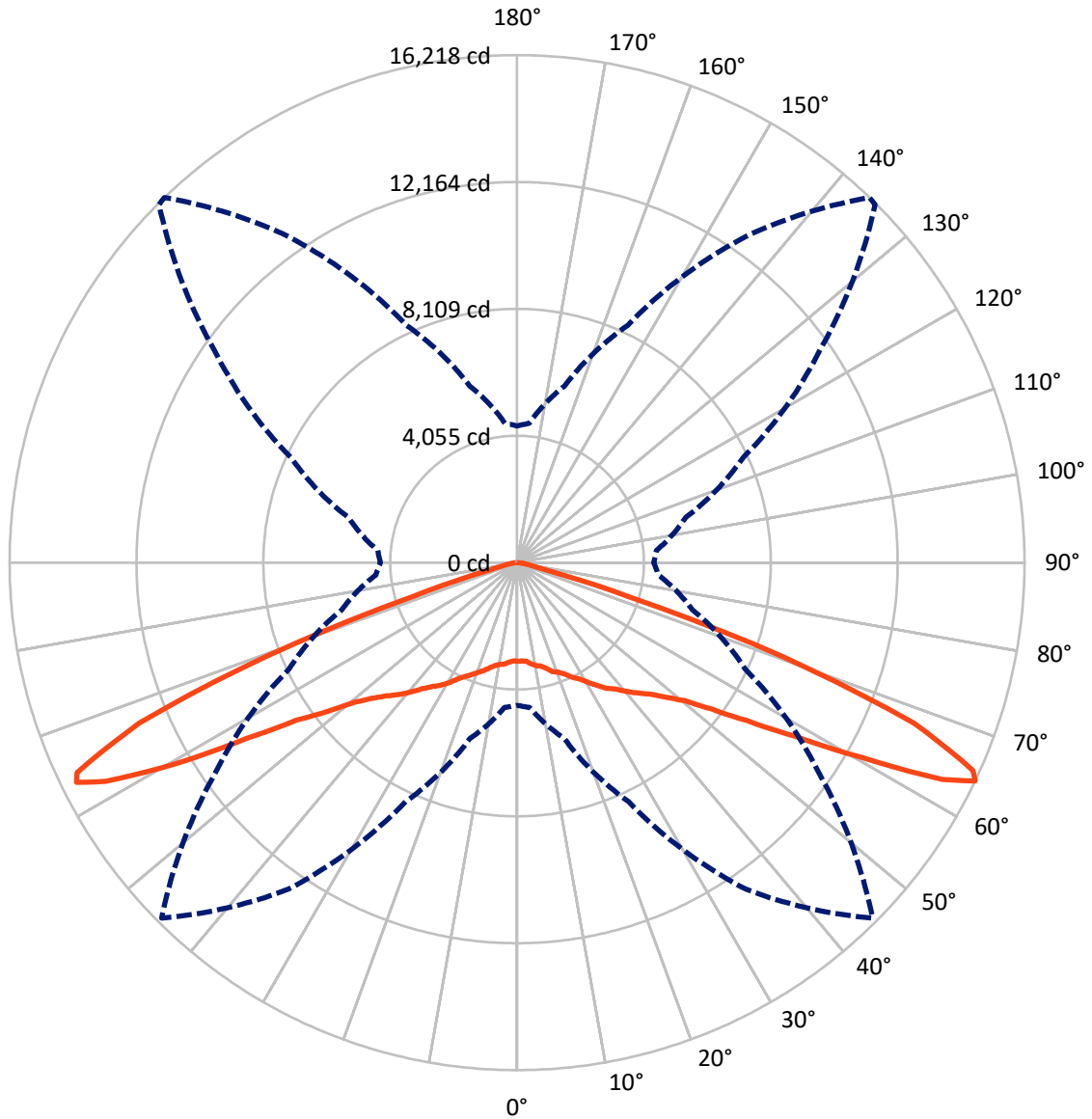
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13472.4	0.0	13472.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13446.7	0.0	13446.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26919.0	0.0	26919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.7	1.2
10°-20°	998.1	3.7
20°-30°	1875.8	7.0
30°-40°	3093.5	11.5
40°-50°	4838.1	18.0
50°-60°	7817.1	29.0
60°-70°	7038.8	26.1
70°-80°	833.8	3.1
80°-90°	114.1	0.4
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°	26919.0	100.0
0°-180°	26919.0	100.0

**Coefficient of Utilization**



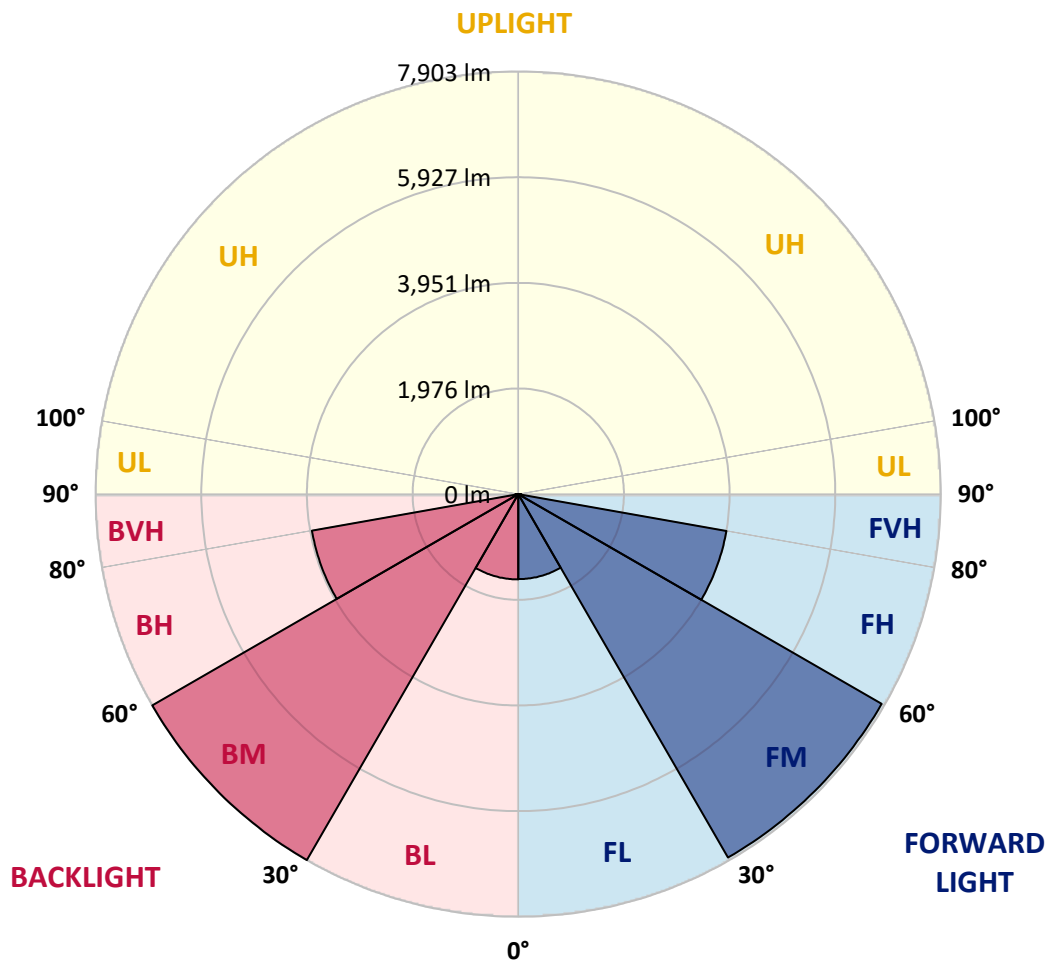
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.7	5.9			
FM (30°-60°)	7846.1	29.1			
FH (60°-80°)	3953.4	14.7			G2/5000
FVH (80°-90°)	58.5	0.2			G1/100
BL (0°-30°)	1594.8	5.9	B3/2500		
BM (30°-60°)	7902.7	29.4	B4/8500		
BH (60°-80°)	3919.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	55.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7
2.5°	3114.6	3120.8	3176.4	3154.8	3173.3	3139.3	3164.0	3216.5	3154.8	3201.1	3216.5
5°	3148.6	3157.8	3157.8	3179.4	3191.8	3185.6	3201.1	3179.4	3238.1	3213.4	3250.4
7.5°	3272.1	3256.6	3231.9	3250.4	3253.5	3269.0	3284.4	3312.2	3302.9	3281.3	3318.4
10°	3293.7	3281.3	3318.4	3321.4	3306.0	3293.7	3309.1	3309.1	3336.9	3343.1	3343.1
12.5°	3330.7	3343.1	3340.0	3364.7	3367.7	3358.5	3383.2	3429.5	3417.1	3426.4	3404.8
15°	3472.7	3457.3	3454.2	3478.9	3519.0	3460.4	3503.6	3500.5	3488.1	3506.7	3457.3
17.5°	3596.2	3546.8	3568.4	3608.5	3593.1	3605.4	3661.0	3611.6	3624.0	3602.3	3586.9
20°	3704.2	3664.1	3667.2	3682.6	3682.6	3719.6	3741.3	3722.7	3710.4	3707.3	3713.5
22.5°	3824.6	3778.3	3781.4	3846.2	3867.8	3855.5	3840.0	3870.9	3877.1	3852.4	3880.2
25°	3914.1	3963.5	3978.9	4009.8	3963.5	3997.5	3985.1	4043.8	4080.8	4031.4	4065.4
27.5°	4148.7	4127.1	4167.2	4164.2	4201.2	4167.2	4188.8	4207.4	4222.8	4225.9	4210.5
30°	4358.6	4367.9	4327.8	4435.8	4349.4	4404.9	4442.0	4451.2	4469.7	4469.7	4423.4
32.5°	4580.9	4562.4	4627.2	4602.5	4587.0	4630.3	4590.1	4716.7	4642.6	4685.8	4633.4
35°	4830.9	4830.9	4855.6	4923.5	4830.9	4803.1	4877.2	4929.7	4929.7	4852.5	4871.0
37.5°	5111.8	5087.1	5118.0	5204.4	5133.4	5040.8	5176.6	5198.2	5182.8	5161.2	5124.2
40°	5309.4	5303.2	5364.9	5479.1	5377.3	5358.8	5383.5	5442.1	5460.6	5482.2	5432.8
42.5°	5642.7	5670.5	5849.6	5821.8	5738.4	5673.6	5667.4	5886.6	5834.1	5778.6	5750.8
45°	6136.6	6112.0	6204.6	6207.6	6099.6	5957.6	5988.5	6189.1	6278.6	6155.2	6201.5
47.5°	6528.7	6541.0	6605.8	6738.6	6488.5	6340.4	6454.6	6778.7	6750.9	6704.6	6747.8
50°	7053.4	7109.0	7312.7	7266.4	7044.2	6862.1	7112.1	7417.7	7451.6	7281.9	7251.0
52.5°	7778.8	7865.3	7976.4	8013.4	7800.5	7735.6	7751.1	8130.7	8047.4	7883.8	7778.8
55°	8414.7	8454.9	8658.6	8964.2	8948.8	8637.0	8816.0	8958.0	8618.5	8282.0	8309.8
57.5°	8686.4	8704.9	9272.9	9884.1	10248.3	10319.3	10115.6	9637.1	8828.4	8180.1	8140.0
60°	8010.4	8186.3	8871.6	10251.4	11915.2	12736.3	11381.2	9714.3	8337.6	7550.4	7491.8
62.5°	6402.1	6411.4	7430.0	9522.9	12952.4	15103.9	11865.8	8988.9	7028.7	6136.6	5902.0
64°	4559.3	4645.7	5815.6	8430.2	12736.3	16067.0	11807.2	8041.2	5794.0	4528.4	4364.8
65°	3272.1	3392.4	4522.2	7318.9	12230.1	15952.8	11631.2	7226.3	4685.8	3457.3	3290.6
67.5°	1203.9	1253.3	1774.9	3661.0	8782.1	13594.5	9217.3	3972.8	2058.9	1466.3	1318.1
70°	558.7	561.8	657.5	1210.0	3840.0	9090.8	4398.8	1490.9	774.8	614.3	571.1
72.5°	410.6	419.8	459.9	558.7	1129.8	3849.3	1444.6	611.2	453.8	401.3	392.0
75°	333.4	339.6	351.9	404.4	521.7	1031.0	586.5	422.9	361.2	324.1	311.8
77.5°	256.2	256.2	284.0	308.7	345.7	481.5	388.9	336.5	293.3	256.2	246.9
80°	185.2	188.3	222.3	240.8	234.6	317.9	280.9	277.8	240.8	200.6	185.2
82.5°	108.0	117.3	160.5	172.9	166.7	188.3	203.7	216.1	188.3	138.9	126.6
85°	61.7	64.8	92.6	95.7	95.7	89.5	117.3	129.6	126.6	86.4	77.2
87.5°	18.5	18.5	24.7	24.7	27.8	30.9	46.3	55.6	61.7	43.2	40.1
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7	3151.7
2.5°	3201.1	3154.8	3157.8	3170.2	3130.1	3145.5	3191.8	3157.8	3148.6	3130.1	3120.8
5°	3185.6	3235.0	3216.5	3222.7	3213.4	3170.2	3164.0	3191.8	3207.2	3179.4	3235.0
7.5°	3293.7	3272.1	3247.4	3256.6	3235.0	3272.1	3296.7	3241.2	3269.0	3253.5	3222.7
10°	3355.4	3315.3	3333.8	3327.6	3312.2	3349.2	3324.5	3318.4	3293.7	3259.7	3309.1
12.5°	3377.0	3423.3	3454.2	3401.7	3411.0	3392.4	3377.0	3377.0	3349.2	3340.0	3349.2
15°	3472.7	3512.8	3500.5	3540.6	3488.1	3506.7	3525.2	3478.9	3503.6	3435.7	3488.1
17.5°	3648.6	3614.7	3657.9	3605.4	3624.0	3661.0	3602.3	3602.3	3620.9	3583.8	3537.5
20°	3759.8	3744.3	3728.9	3732.0	3701.1	3735.1	3716.6	3707.3	3679.5	3691.9	3716.6
22.5°	3864.7	3843.1	3849.3	3858.6	3880.2	3864.7	3855.5	3864.7	3796.8	3858.6	3772.1
25°	3994.4	4053.0	4034.5	4074.6	4012.9	4053.0	4049.9	3991.3	4028.3	4003.6	3985.1
27.5°	4210.5	4179.6	4207.4	4158.0	4201.2	4204.3	4167.2	4266.0	4222.8	4216.6	4204.3
30°	4488.3	4466.7	4448.1	4420.4	4454.3	4426.5	4457.4	4466.7	4426.5	4395.7	4337.0
32.5°	4645.7	4704.3	4726.0	4658.0	4661.1	4676.6	4648.8	4621.0	4645.7	4655.0	4645.7
35°	4868.0	4923.5	4935.9	4883.4	4855.6	4932.8	4877.2	4969.8	4889.6	4892.6	4809.3
37.5°	5127.2	5142.7	5247.6	5189.0	5164.3	5127.2	5229.1	5216.8	5235.3	5087.1	5161.2
40°	5420.5	5476.1	5534.7	5386.5	5383.5	5417.4	5411.2	5482.2	5448.3	5426.7	5374.2
42.5°	5741.5	5858.8	5868.1	5769.3	5707.6	5701.4	5732.3	5889.7	5892.8	5750.8	5689.1
45°	6167.5	6297.2	6263.2	6071.8	6003.9	5994.7	6145.9	6213.8	6272.5	6216.9	6164.4
47.5°	6698.5	6784.9	6760.2	6584.2	6365.1	6426.8	6575.0	6788.0	6726.2	6652.1	6590.4
50°	7266.4	7368.3	7315.8	7139.9	6930.0	6930.0	7112.1	7383.7	7365.2	7220.1	7164.6
52.5°	7896.1	8044.3	8164.7	7914.7	7738.7	7766.5	8053.6	8152.4	8106.1	8004.2	7957.9
55°	8365.3	8649.3	8896.3	8908.6	8917.9	8914.8	8988.9	9087.7	8757.4	8593.8	8427.1
57.5°	8251.1	8788.2	9634.0	10208.2	10378.0	10467.5	10442.8	9985.9	9205.0	8667.9	8723.4
60°	7436.2	8312.9	9677.3	11520.1	12754.8	12631.4	12180.7	10374.9	8958.0	8050.5	7936.3
62.5°	5932.9	6988.6	8951.8	11890.5	15292.2	15255.2	12896.8	9476.6	7464.0	6315.7	6244.7
64°	4469.7	5581.0	7985.7	11794.8	16181.2	16218.3	12714.7	8371.5	5840.3	4469.7	4361.7
65°	3420.2	4451.2	7038.0	11597.3	15989.8	16011.5	12208.5	7229.4	4438.9	3173.3	3056.0
67.5°	1361.3	1895.3	3818.4	8794.4	13730.3	13671.6	8711.1	3497.4	1697.8	1105.1	1083.5
70°	580.3	722.3	1339.7	4167.2	9192.6	9022.8	3750.5	1136.0	629.7	527.9	524.8
72.5°	398.2	441.4	574.2	1287.2	3821.5	3732.0	1068.0	527.9	429.1	395.1	395.1
75°	321.0	351.9	416.7	540.2	1012.5	975.4	503.2	388.9	342.6	317.9	314.9
77.5°	250.0	280.9	327.2	373.5	463.0	459.9	336.5	293.3	265.5	246.9	240.8
80°	197.6	228.4	259.3	265.5	302.5	296.3	228.4	231.5	216.1	179.0	176.0
82.5°	135.8	185.2	206.8	188.3	179.0	179.0	163.6	163.6	151.3	111.1	101.9
85°	83.3	123.5	129.6	111.1	83.3	83.3	89.5	86.4	80.3	58.7	55.6
87.5°	43.2	58.7	52.5	43.2	27.8	27.8	24.7	18.5	18.5	15.4	15.4
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)