

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: P479240

Luminaire Tested: **IFLD-L-SA8B-727-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479240  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

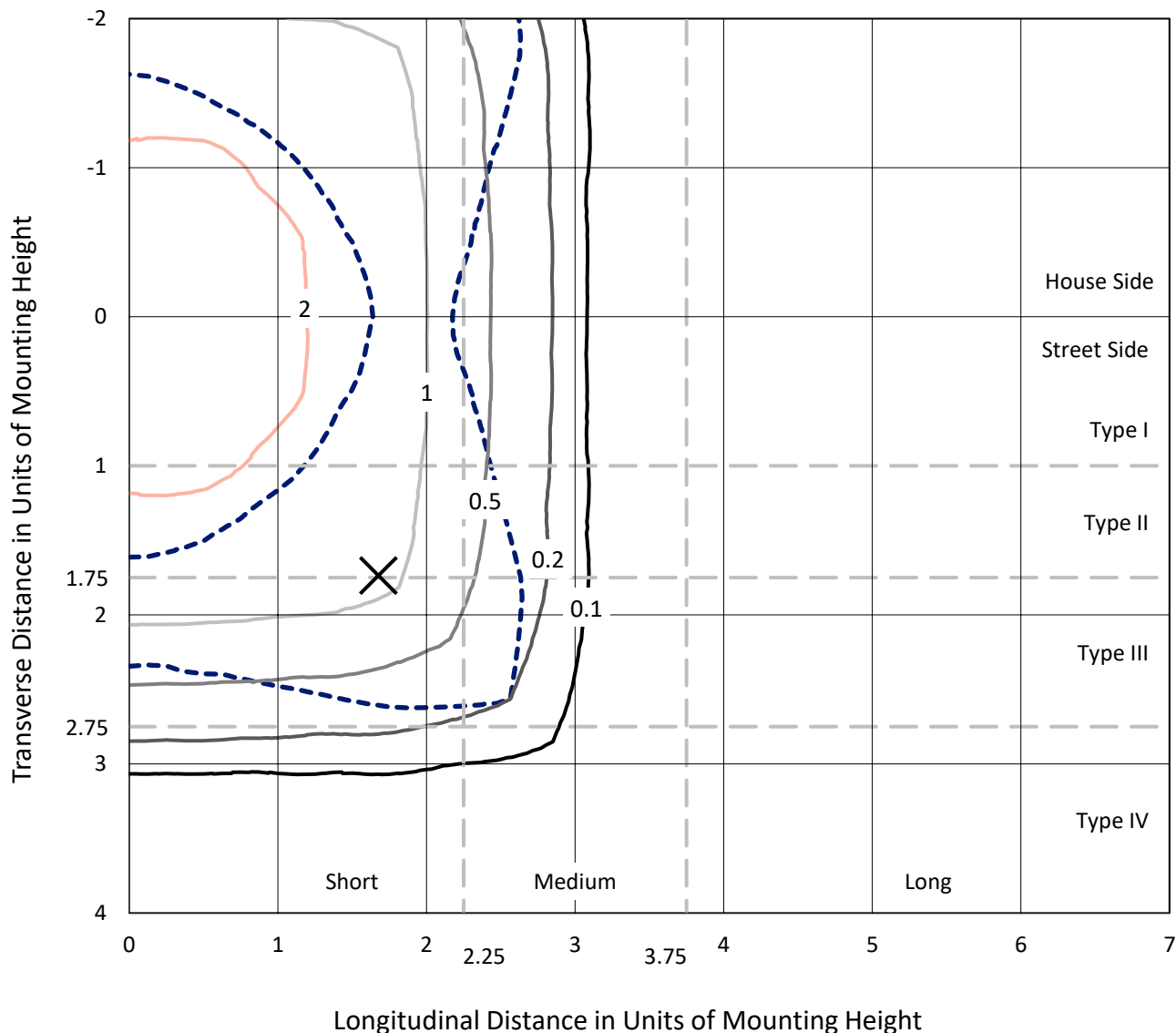
Lumens per Lamp: N/A  
Luminaire Lumens: 34356.6 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 320  
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

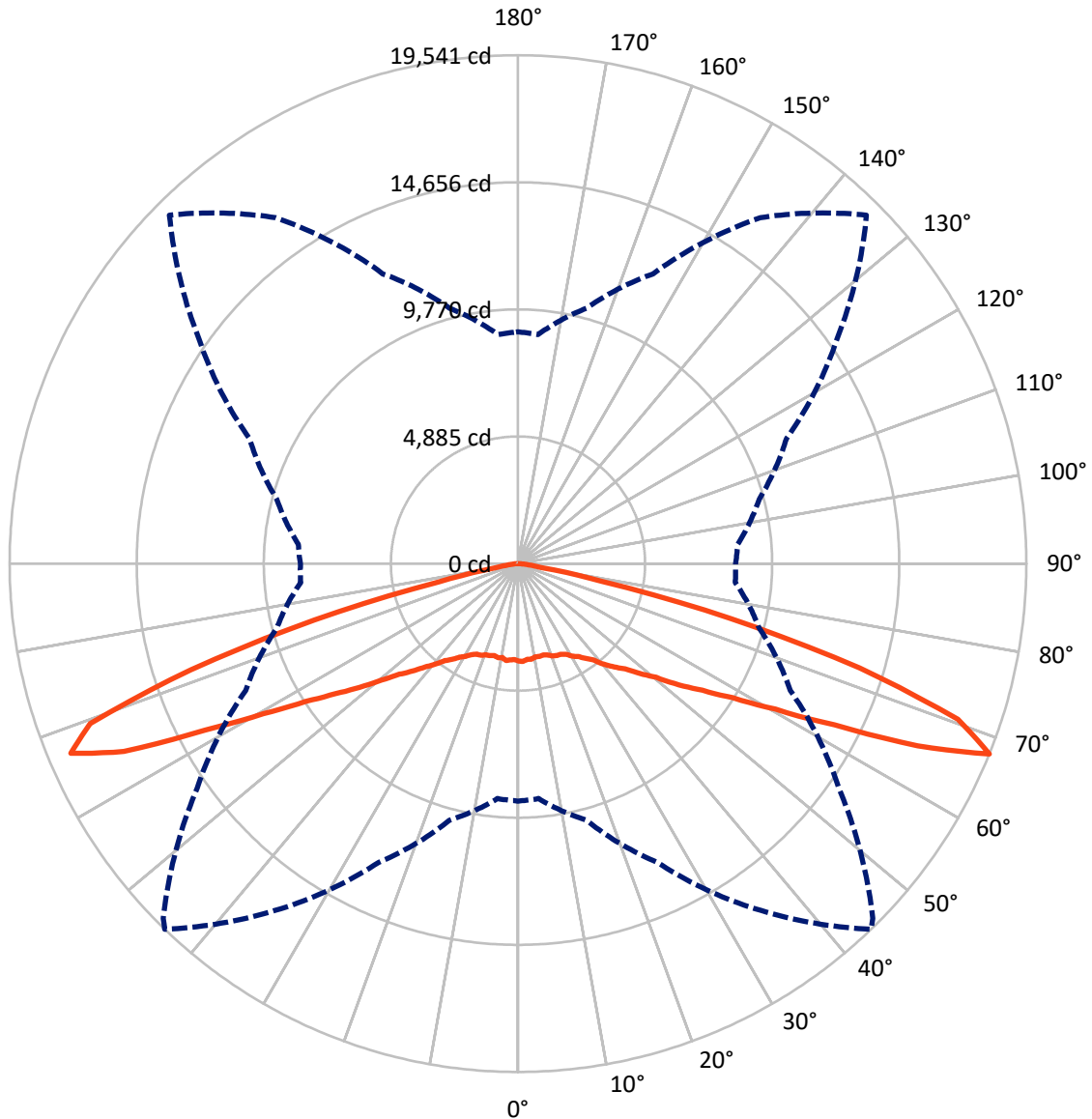
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17134.3	0.0	17134.3
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	17222.3	0.0	17222.3
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	34356.6	0.0	34356.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.1	1.0
10°-20°	1037.5	3.0
20°-30°	1764.3	5.1
30°-40°	2797.4	8.1
40°-50°	4561.5	13.3
50°-60°	7790.4	22.7
60°-70°	11849.1	34.5
70°-80°	3993.9	11.6
80°-90°	207.4	0.6
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°	34356.6	100.0
0°-180°	34356.6	100.0

**Coefficient of Utilization**



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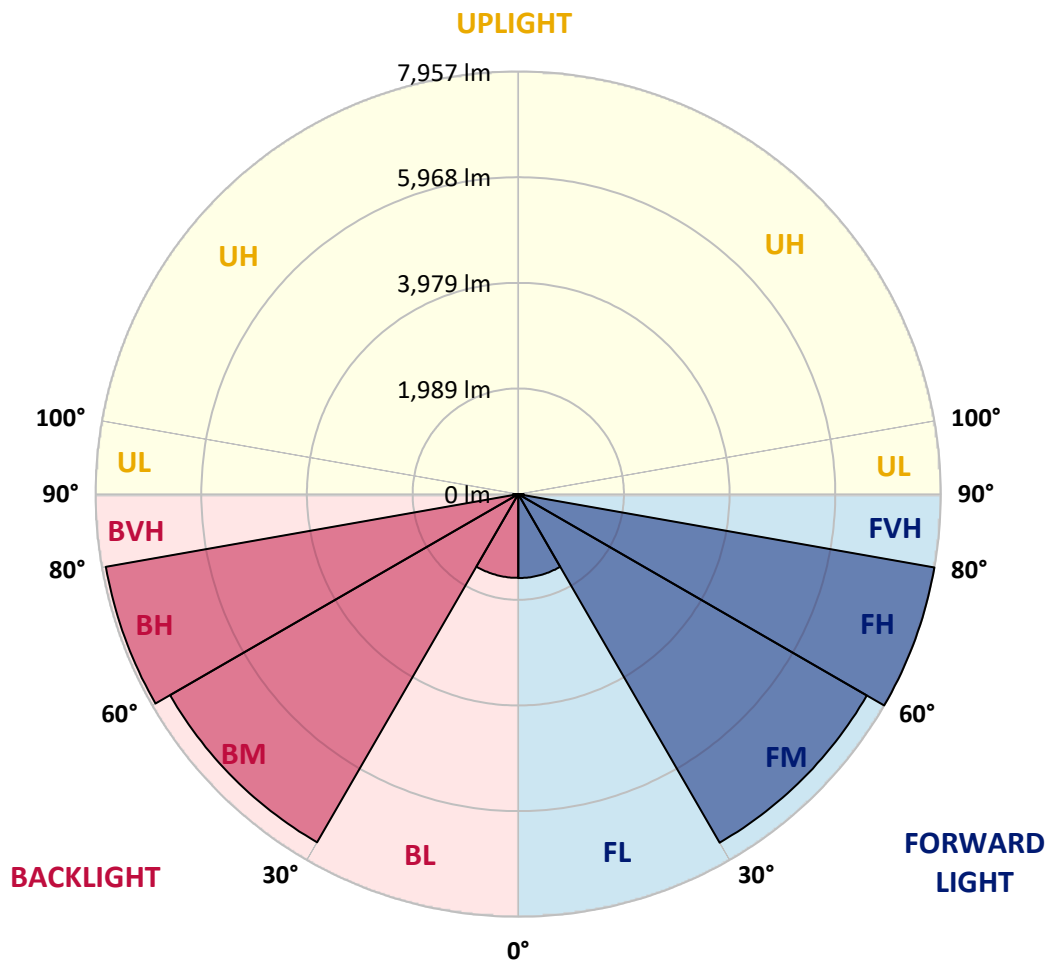
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1580.1	4.6			
FM (30°-60°)	7578.7	22.1			
FH (60°-80°)	7957.3	23.2			G4/12000
FVH (80°-90°)	106.1	0.3			G2/225
BL (0°-30°)	1576.9	4.6	B3/2500		
BM (30°-60°)	7570.5	22.0	B4/8500		
BH (60°-80°)	7885.6	23.0	B5		G4/12000
BVH (80°-90°)	101.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9
2.5°	3666.6	3709.7	3741.1	3737.2	3748.9	3760.7	3745.0	3768.5	3752.9	3780.3	3796.0
5°	3737.2	3725.4	3729.3	3705.8	3760.7	3698.0	3698.0	3729.3	3768.5	3721.5	3748.9
7.5°	3694.0	3686.2	3666.6	3701.9	3713.6	3713.6	3745.0	3686.2	3752.9	3768.5	3772.5
10°	3647.0	3603.8	3662.7	3698.0	3705.8	3643.1	3670.5	3686.2	3666.6	3686.2	3698.0
12.5°	3607.8	3631.3	3631.3	3631.3	3619.5	3662.7	3690.1	3686.2	3647.0	3682.3	3619.5
15°	3603.8	3592.1	3627.4	3658.7	3639.1	3647.0	3658.7	3694.0	3619.5	3635.2	3635.2
17.5°	3599.9	3615.6	3627.4	3623.5	3690.1	3690.1	3678.4	3654.8	3713.6	3682.3	3639.1
20°	3615.6	3603.8	3635.2	3647.0	3694.0	3788.2	3752.9	3733.3	3701.9	3662.7	3662.7
22.5°	3635.2	3627.4	3670.5	3721.5	3811.7	3835.2	3831.3	3807.8	3752.9	3705.8	3698.0
25°	3705.8	3635.2	3682.3	3780.3	3811.7	3858.7	3890.1	3858.7	3784.2	3796.0	3725.4
27.5°	3811.7	3799.9	3862.7	3929.3	3901.9	3945.0	3917.6	3941.1	3945.0	3886.2	3815.6
30°	3937.2	3901.9	3941.1	4070.5	4082.3	4129.3	4082.3	4019.5	4039.1	3988.1	3952.9
32.5°	4117.6	4105.8	4180.3	4266.6	4282.3	4258.7	4235.2	4270.5	4188.1	4148.9	4086.2
35°	4235.2	4286.2	4376.4	4443.0	4494.0	4470.5	4482.3	4447.0	4466.6	4384.2	4356.8
37.5°	4584.2	4564.6	4584.2	4697.9	4709.7	4697.9	4709.7	4748.9	4721.5	4650.9	4580.3
40°	4913.6	4882.2	4929.3	5058.7	5050.9	5090.1	5011.7	5054.8	5054.8	4921.5	4894.0
42.5°	5160.7	5266.6	5321.5	5427.3	5466.5	5431.3	5415.6	5423.4	5509.7	5352.8	5294.0
45°	5670.5	5666.5	5831.2	5890.1	5780.3	5772.4	5741.1	5835.2	5894.0	5803.8	5780.3
47.5°	6223.4	6250.8	6345.0	6368.5	6435.2	6313.6	6313.6	6325.4	6533.2	6321.4	6211.6
50°	6721.4	6756.7	6944.9	7129.3	7003.8	6874.4	6925.3	6988.1	7101.8	6901.8	6807.7
52.5°	7325.3	7517.5	7643.0	7741.0	7831.2	7741.0	7623.4	7694.0	7917.5	7650.8	7533.2
55°	8195.9	8348.8	8466.5	8646.9	8721.4	8599.8	8588.1	8580.2	8705.7	8423.3	8262.6
57.5°	9168.4	9105.7	9293.9	9572.3	9842.9	9725.3	9690.0	9697.8	9729.2	9329.2	9207.6
60°	10376.2	10446.8	10670.4	10913.5	11199.8	11364.5	11133.1	10999.8	11027.2	10482.1	10293.9
62.5°	11066.4	11223.3	11729.2	12564.4	13140.9	13654.6	13689.9	12823.3	12242.9	11184.1	10384.1
65°	10733.1	10709.6	11662.5	13207.6	15391.8	16885.9	16662.4	14560.5	12533.1	10850.7	9776.3
67.5°	9129.2	9066.5	10219.4	12670.3	16278.1	19540.8	19285.9	15050.7	11552.7	9599.8	8384.1
70°	5882.2	5866.5	7117.5	9658.6	14533.0	17940.8	18034.9	13670.3	9403.7	7031.2	5827.3
72.5°	2137.2	2266.6	2992.1	5192.0	9870.4	13725.2	13784.0	10121.4	5407.7	3250.9	2396.0
75°	788.2	811.7	945.1	1686.2	4497.9	8427.3	8646.9	4909.7	1921.5	1058.8	862.7
77.5°	454.9	458.8	505.9	627.4	1333.3	3290.1	3423.5	1490.2	745.1	564.7	521.6
80°	309.8	305.9	356.9	407.8	533.3	933.3	992.1	623.5	470.6	392.1	329.4
82.5°	180.4	192.2	262.7	290.2	325.5	411.8	419.6	388.2	352.9	290.2	215.7
85°	109.8	90.2	145.1	160.8	188.2	184.3	184.3	211.8	227.4	203.9	121.6
87.5°	27.5	27.5	35.3	39.2	51.0	39.2	43.1	82.4	109.8	102.0	62.7
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°	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9	3752.9
2.5°	3760.7	3748.9	3756.8	3799.9	3772.5	3690.1	3709.7	3752.9	3717.6	3698.0	3694.0
5°	3745.0	3768.5	3741.1	3748.9	3776.4	3709.7	3721.5	3776.4	3752.9	3760.7	3717.6
7.5°	3748.9	3760.7	3737.2	3701.9	3701.9	3756.8	3725.4	3733.3	3698.0	3756.8	3678.4
10°	3725.4	3694.0	3666.6	3686.2	3678.4	3662.7	3650.9	3674.4	3639.1	3690.1	3635.2
12.5°	3654.8	3662.7	3654.8	3647.0	3662.7	3701.9	3639.1	3647.0	3592.1	3599.9	3627.4
15°	3627.4	3650.9	3643.1	3686.2	3705.8	3647.0	3694.0	3647.0	3603.8	3580.3	3623.5
17.5°	3639.1	3674.4	3662.7	3694.0	3658.7	3701.9	3709.7	3690.1	3639.1	3619.5	3639.1
20°	3650.9	3639.1	3654.8	3709.7	3760.7	3717.6	3717.6	3705.8	3658.7	3631.3	3631.3
22.5°	3678.4	3658.7	3682.3	3725.4	3741.1	3807.8	3748.9	3721.5	3643.1	3572.5	3639.1
25°	3733.3	3745.0	3760.7	3745.0	3831.3	3823.4	3815.6	3796.0	3674.4	3678.4	3666.6
27.5°	3839.1	3772.5	3792.1	3886.2	3898.0	3929.3	3890.1	3925.4	3796.0	3799.9	3721.5
30°	3968.5	3898.0	3960.7	4043.1	4039.1	4098.0	4078.3	4086.2	3996.0	3945.0	3839.1
32.5°	4109.7	4101.9	4141.1	4192.1	4211.7	4243.0	4239.1	4239.1	4184.2	4050.9	4070.5
35°	4266.6	4321.5	4368.5	4423.4	4431.3	4470.5	4415.6	4423.4	4368.5	4270.5	4301.9
37.5°	4576.4	4572.5	4623.4	4690.1	4697.9	4666.6	4709.7	4690.1	4615.6	4548.9	4497.9
40°	4937.1	4858.7	4905.8	5062.6	5074.4	5019.5	5015.6	5011.7	4956.8	4811.7	4780.3
42.5°	5250.9	5352.8	5345.0	5396.0	5360.7	5333.2	5431.3	5376.4	5333.2	5180.3	5152.8
45°	5654.8	5686.2	5788.1	5952.8	5784.2	5784.2	5850.9	5807.7	5784.2	5670.5	5564.6
47.5°	6156.7	6184.2	6388.1	6399.9	6290.1	6215.6	6423.4	6431.2	6333.2	6246.9	6117.5
50°	6745.0	6756.7	6941.0	7129.3	7007.7	6866.5	7078.3	7160.6	6941.0	6823.4	6662.6
52.5°	7392.0	7356.7	7509.6	7862.6	7744.9	7701.8	7929.2	7948.8	7650.8	7466.5	7509.6
55°	8137.1	8090.0	8505.7	8744.9	8670.4	8592.0	8693.9	8741.0	8501.8	8199.8	8305.7
57.5°	9101.8	9125.3	9333.1	9568.4	9690.0	9709.6	9756.7	9709.6	9466.5	9160.6	9062.5
60°	10066.4	10137.0	10540.9	10984.1	11023.3	11368.4	11305.6	11070.3	10725.3	10290.0	10309.6
62.5°	10423.3	10364.5	11015.4	12097.8	13019.3	13650.7	13372.3	12537.0	11737.0	10944.9	11003.7
65°	9705.7	9850.8	10737.0	12431.1	14431.1	16929.0	15446.7	13137.0	11521.3	10497.8	10384.1
67.5°	8364.5	8474.3	9599.8	11388.0	14936.9	18944.7	16231.0	12289.9	10160.6	8835.1	8905.7
70°	5827.3	5882.2	6984.2	9329.2	13544.8	17878.0	14642.8	9439.0	7015.5	5592.0	5670.5
72.5°	2345.0	2478.4	3203.9	5619.5	9999.8	13584.0	9858.6	4952.8	2909.7	2164.7	1964.7
75°	866.6	870.6	1023.5	1933.3	4748.9	8537.1	4447.0	1592.1	929.4	760.8	725.5
77.5°	501.9	498.0	533.3	698.0	1376.4	3333.3	1262.7	623.5	505.9	454.9	435.3
80°	313.7	309.8	364.7	462.7	603.9	913.7	533.3	388.2	341.2	294.1	294.1
82.5°	200.0	203.9	286.3	341.2	368.6	403.9	309.8	274.5	254.9	168.6	164.7
85°	129.4	117.6	200.0	227.4	203.9	180.4	172.5	145.1	133.3	82.4	90.2
87.5°	58.8	62.7	102.0	113.7	74.5	43.1	43.1	31.4	31.4	19.6	19.6
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)