

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: P479317

Luminaire Tested: **IFLD-L-SA8A-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479317  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

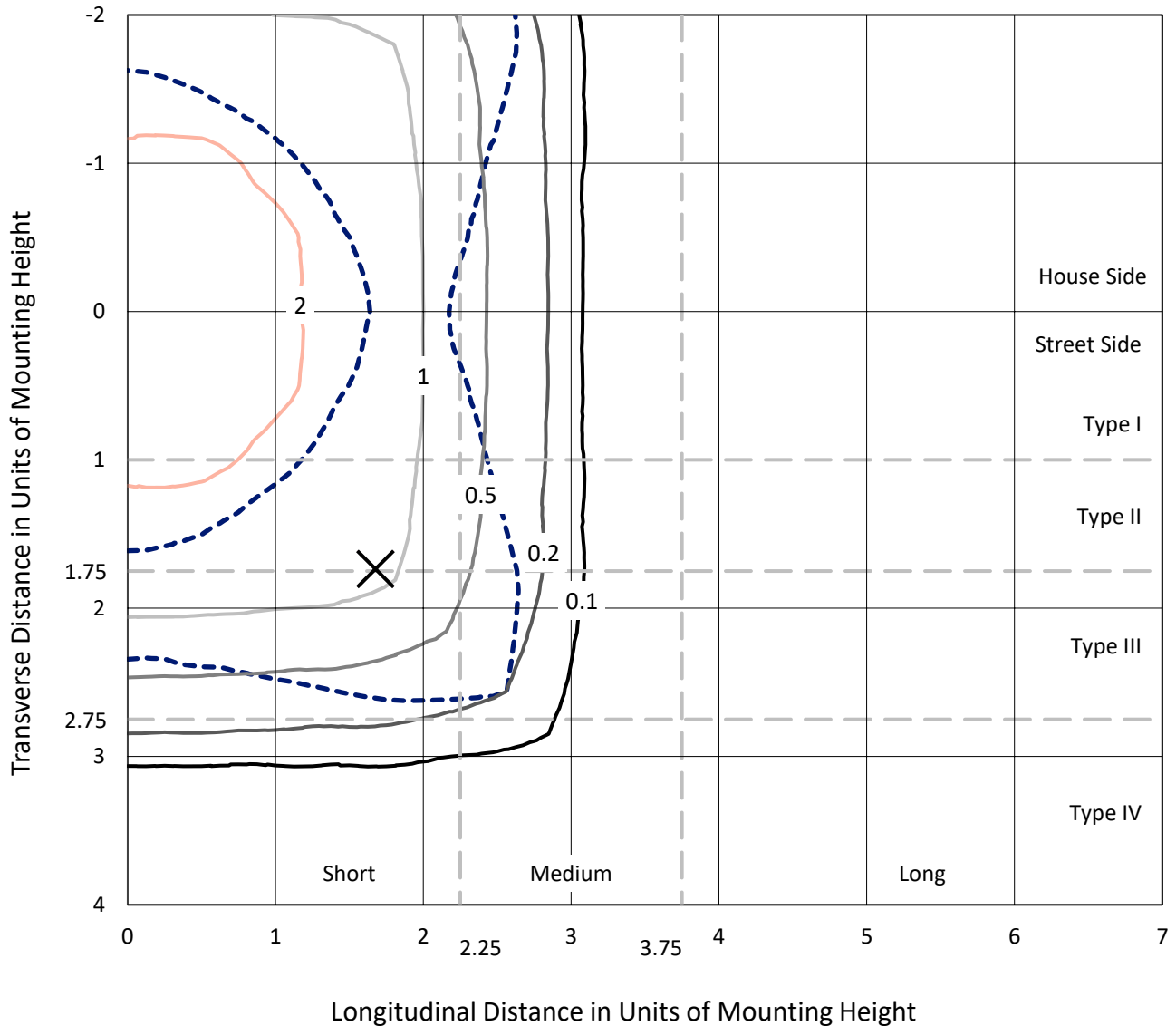
Lumens per Lamp: N/A  
Luminaire Lumens: 34104.8 lumens  
Efficiency: N/A  
Efficacy: 137.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.8  
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

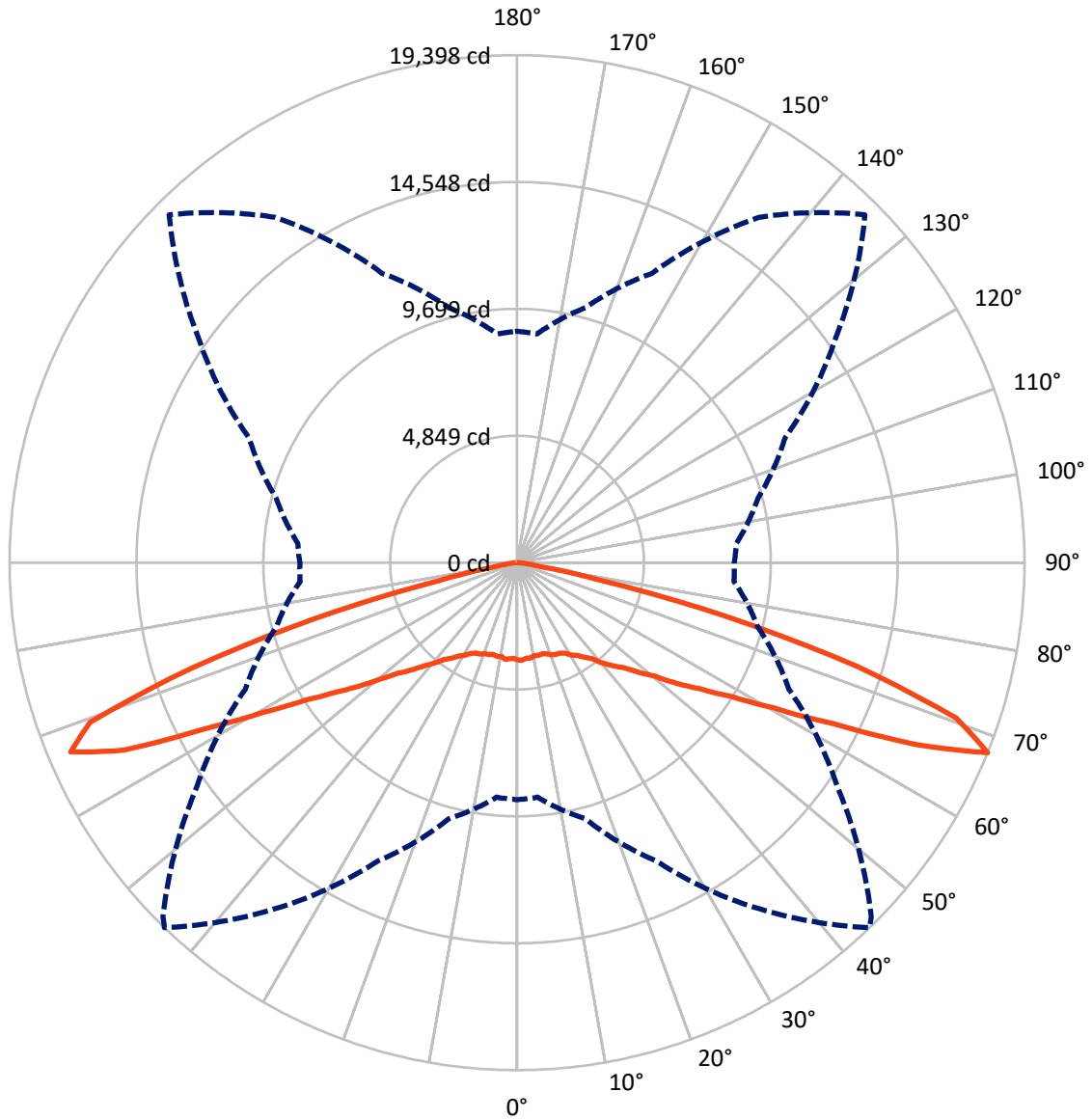
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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	17008.7	0.0	17008.7
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	17096.1	0.0	17096.1
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	34104.8	0.0	34104.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.5	1.0
10°-20°	1029.9	3.0
20°-30°	1751.4	5.1
30°-40°	2776.9	8.1
40°-50°	4528.0	13.3
50°-60°	7733.3	22.7
60°-70°	11762.2	34.5
70°-80°	3964.6	11.6
80°-90°	205.8	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°	34104.8	100.0
0°-180°	34104.8	100.0

**Coefficient of Utilization**



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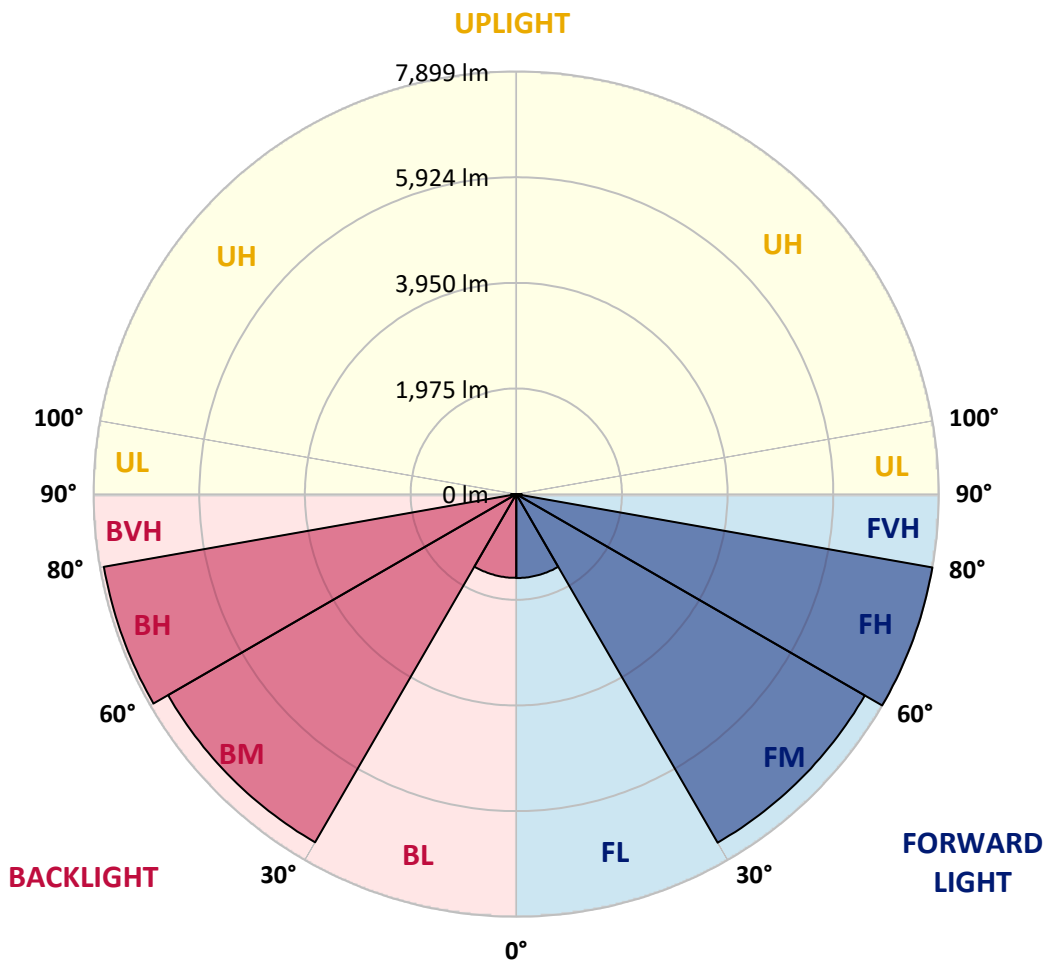
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.5	4.6			
FM (30°-60°)	7523.2	22.1			
FH (60°-80°)	7899.0	23.2			G4/12000
FVH (80°-90°)	105.3	0.3			G2/225
BL (0°-30°)	1565.3	4.6	B3/2500		
BM (30°-60°)	7515.1	22.0	B4/8500		
BH (60°-80°)	7827.8	23.0	B5		G4/12000
BVH (80°-90°)	100.5	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°	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4
2.5°	3639.7	3682.5	3713.7	3709.8	3721.5	3733.1	3717.6	3740.9	3725.4	3752.6	3768.2
5°	3709.8	3698.1	3702.0	3678.7	3733.1	3670.9	3670.9	3702.0	3740.9	3694.2	3721.5
7.5°	3667.0	3659.2	3639.7	3674.8	3686.4	3686.4	3717.6	3659.2	3725.4	3740.9	3744.8
10°	3620.3	3577.4	3635.8	3670.9	3678.7	3616.4	3643.6	3659.2	3639.7	3659.2	3670.9
12.5°	3581.3	3604.7	3604.7	3604.7	3593.0	3635.8	3663.1	3659.2	3620.3	3655.3	3593.0
15°	3577.4	3565.8	3600.8	3631.9	3612.5	3620.3	3631.9	3667.0	3593.0	3608.6	3608.6
17.5°	3573.5	3589.1	3600.8	3596.9	3663.1	3663.1	3651.4	3628.0	3686.4	3655.3	3612.5
20°	3589.1	3577.4	3608.6	3620.3	3667.0	3760.4	3725.4	3705.9	3674.8	3635.8	3635.8
22.5°	3608.6	3600.8	3643.6	3694.2	3783.8	3807.1	3803.2	3779.9	3725.4	3678.7	3670.9
25°	3678.7	3608.6	3655.3	3752.6	3783.8	3830.5	3861.6	3830.5	3756.5	3768.2	3698.1
27.5°	3783.8	3772.1	3834.4	3900.5	3873.3	3916.1	3888.9	3912.2	3916.1	3857.7	3787.6
30°	3908.3	3873.3	3912.2	4040.7	4052.4	4099.1	4052.4	3990.1	4009.5	3958.9	3923.9
32.5°	4087.4	4075.7	4149.7	4235.3	4250.9	4227.5	4204.2	4239.2	4157.5	4118.5	4056.2
35°	4204.2	4254.8	4344.3	4410.5	4461.1	4437.7	4449.4	4414.4	4433.8	4352.1	4324.8
37.5°	4550.6	4531.2	4550.6	4663.5	4675.2	4663.5	4675.2	4714.1	4686.9	4616.8	4546.7
40°	4877.6	4846.5	4893.2	5021.6	5013.9	5052.8	4974.9	5017.8	5017.8	4885.4	4858.2
42.5°	5122.9	5228.0	5282.5	5387.6	5426.5	5391.5	5375.9	5383.7	5469.3	5313.6	5255.2
45°	5628.9	5625.0	5788.5	5846.9	5737.9	5730.1	5699.0	5792.4	5850.8	5761.3	5737.9
47.5°	6177.8	6205.0	6298.5	6321.8	6388.0	6267.3	6267.3	6279.0	6485.3	6275.1	6166.1
50°	6672.2	6707.2	6894.1	7077.0	6952.5	6824.0	6874.6	6936.9	7049.8	6851.2	6757.8
52.5°	7271.7	7462.4	7587.0	7684.3	7773.8	7684.3	7567.5	7637.6	7859.5	7594.8	7478.0
55°	8135.9	8287.7	8404.5	8583.5	8657.5	8536.8	8525.1	8517.3	8641.9	8361.6	8202.0
57.5°	9101.3	9039.0	9225.8	9502.2	9770.8	9654.0	9619.0	9626.8	9657.9	9260.9	9140.2
60°	10300.2	10370.3	10592.2	10833.5	11117.7	11281.2	11051.5	10919.2	10946.4	10405.3	10218.5
62.5°	10985.3	11141.1	11643.2	12472.4	13044.6	13554.6	13589.6	12729.3	12153.2	11102.1	10308.0
65°	10654.5	10631.1	11577.0	13110.8	15279.1	16762.2	16540.3	14453.8	12441.2	10771.2	9704.6
67.5°	9062.3	9000.0	10144.5	12577.5	16158.8	19397.6	19144.6	14940.4	11468.0	9529.5	8322.7
70°	5839.1	5823.6	7065.3	9587.8	14426.5	17809.3	17902.8	13570.1	9334.8	6979.7	5784.6
72.5°	2121.5	2250.0	2970.2	5154.0	9798.1	13624.6	13683.0	10047.2	5368.1	3227.1	2378.5
75°	782.4	805.8	938.2	1673.9	4465.0	8365.5	8583.5	4873.7	1907.4	1051.0	856.4
77.5°	451.6	455.5	502.2	622.8	1323.5	3266.0	3398.4	1479.2	739.6	560.6	517.7
80°	307.5	303.6	354.2	404.8	529.4	926.5	984.9	618.9	467.1	389.3	327.0
82.5°	179.1	190.7	260.8	288.1	323.1	408.7	416.5	385.4	350.3	288.1	214.1
85°	109.0	89.5	144.0	159.6	186.9	183.0	183.0	210.2	225.8	202.4	120.7
87.5°	27.2	27.2	35.0	38.9	50.6	38.9	42.8	81.7	109.0	101.2	62.3
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°	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4	3725.4
2.5°	3733.1	3721.5	3729.3	3772.1	3744.8	3663.1	3682.5	3725.4	3690.3	3670.9	3667.0
5°	3717.6	3740.9	3713.7	3721.5	3748.7	3682.5	3694.2	3748.7	3725.4	3733.1	3690.3
7.5°	3721.5	3733.1	3709.8	3674.8	3674.8	3729.3	3698.1	3705.9	3670.9	3729.3	3651.4
10°	3698.1	3667.0	3639.7	3659.2	3651.4	3635.8	3624.2	3647.5	3612.5	3663.1	3608.6
12.5°	3628.0	3635.8	3628.0	3620.3	3635.8	3674.8	3612.5	3620.3	3565.8	3573.5	3600.8
15°	3600.8	3624.2	3616.4	3659.2	3678.7	3620.3	3667.0	3620.3	3577.4	3554.1	3596.9
17.5°	3612.5	3647.5	3635.8	3667.0	3631.9	3674.8	3682.5	3663.1	3612.5	3593.0	3612.5
20°	3624.2	3612.5	3628.0	3682.5	3733.1	3690.3	3690.3	3678.7	3631.9	3604.7	3604.7
22.5°	3651.4	3631.9	3655.3	3698.1	3713.7	3779.9	3721.5	3694.2	3616.4	3546.3	3612.5
25°	3705.9	3717.6	3733.1	3717.6	3803.2	3795.4	3787.6	3768.2	3647.5	3651.4	3639.7
27.5°	3811.0	3744.8	3764.3	3857.7	3869.4	3900.5	3861.6	3896.6	3768.2	3772.1	3694.2
30°	3939.5	3869.4	3931.7	4013.4	4009.5	4067.9	4048.5	4056.2	3966.7	3916.1	3811.0
32.5°	4079.6	4071.8	4110.7	4161.4	4180.8	4212.0	4208.1	4208.1	4153.6	4021.2	4040.7
35°	4235.3	4289.8	4336.5	4391.0	4398.8	4437.7	4383.2	4391.0	4336.5	4239.2	4270.3
37.5°	4542.8	4538.9	4589.6	4655.7	4663.5	4632.4	4675.2	4655.7	4581.8	4515.6	4465.0
40°	4901.0	4823.1	4869.8	5025.5	5037.2	4982.7	4978.8	4974.9	4920.4	4776.4	4745.3
42.5°	5212.4	5313.6	5305.8	5356.4	5321.4	5294.1	5391.5	5337.0	5294.1	5142.3	5115.1
45°	5613.3	5644.5	5745.7	5909.2	5741.8	5741.8	5808.0	5765.2	5741.8	5628.9	5523.8
47.5°	6111.6	6138.9	6341.3	6353.0	6244.0	6170.0	6376.3	6384.1	6286.8	6201.2	6072.7
50°	6695.5	6707.2	6890.2	7077.0	6956.3	6816.2	7026.4	7108.2	6890.2	6773.4	6613.8
52.5°	7337.8	7302.8	7454.6	7805.0	7688.2	7645.4	7871.1	7890.6	7594.8	7411.8	7454.6
55°	8077.5	8030.7	8443.4	8680.8	8606.9	8529.0	8630.2	8676.9	8439.5	8139.7	8244.8
57.5°	9035.1	9058.4	9264.7	9498.3	9619.0	9638.5	9685.2	9638.5	9397.1	9093.5	8996.1
60°	9992.7	10062.8	10463.7	10903.6	10942.5	11285.1	11222.8	10989.2	10646.7	10214.6	10234.0
62.5°	10346.9	10288.5	10934.7	12009.1	12923.9	13550.7	13274.3	12445.1	11651.0	10864.7	10923.1
65°	9634.6	9778.6	10658.4	12340.0	14325.3	16805.0	15333.5	13040.7	11436.9	10420.9	10308.0
67.5°	8303.2	8412.2	9529.5	11304.6	14827.5	18805.9	16112.1	12199.9	10086.1	8770.4	8840.4
70°	5784.6	5839.1	6933.0	9260.9	13445.6	17747.1	14535.5	9369.9	6964.1	5551.1	5628.9
72.5°	2327.9	2460.2	3180.4	5578.3	9926.5	13484.5	9786.4	4916.5	2888.4	2148.8	1950.3
75°	860.3	864.2	1016.0	1919.1	4714.1	8474.5	4414.4	1580.5	922.6	755.2	720.2
77.5°	498.3	494.4	529.4	692.9	1366.4	3308.8	1253.5	618.9	502.2	451.6	432.1
80°	311.4	307.5	362.0	459.3	599.5	907.0	529.4	385.4	338.7	292.0	292.0
82.5°	198.5	202.4	284.2	338.7	365.9	401.0	307.5	272.5	253.0	167.4	163.5
85°	128.5	116.8	198.5	225.8	202.4	179.1	171.3	144.0	132.4	81.7	89.5
87.5°	58.4	62.3	101.2	112.9	74.0	42.8	42.8	31.1	31.1	19.5	19.5
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)