

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: P479311

Luminaire Tested: **IFLD-M-SA4E-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479311  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

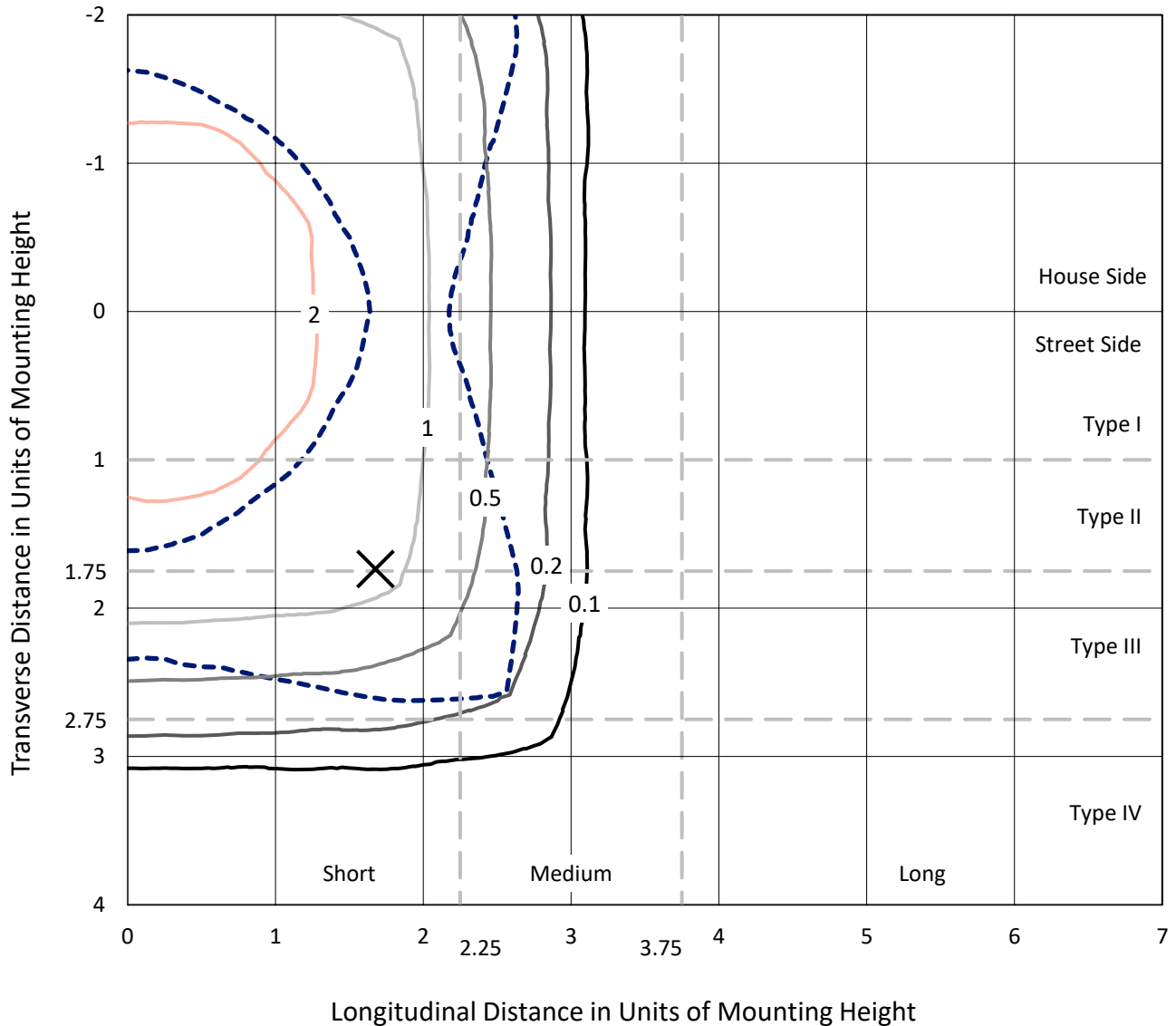
Lumens per Lamp: N/A  
Luminaire Lumens: 36044.6 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 314.8  
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

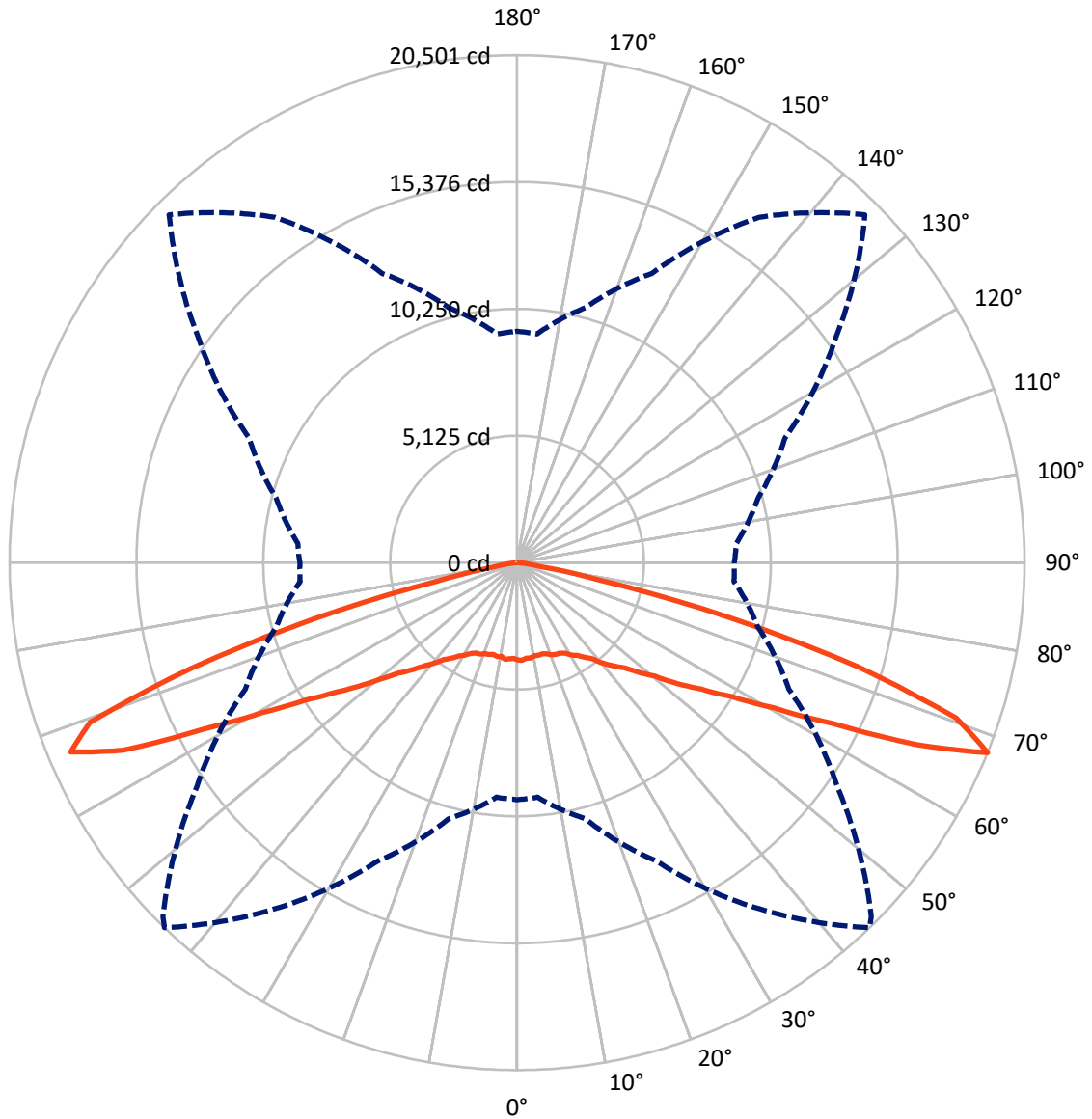
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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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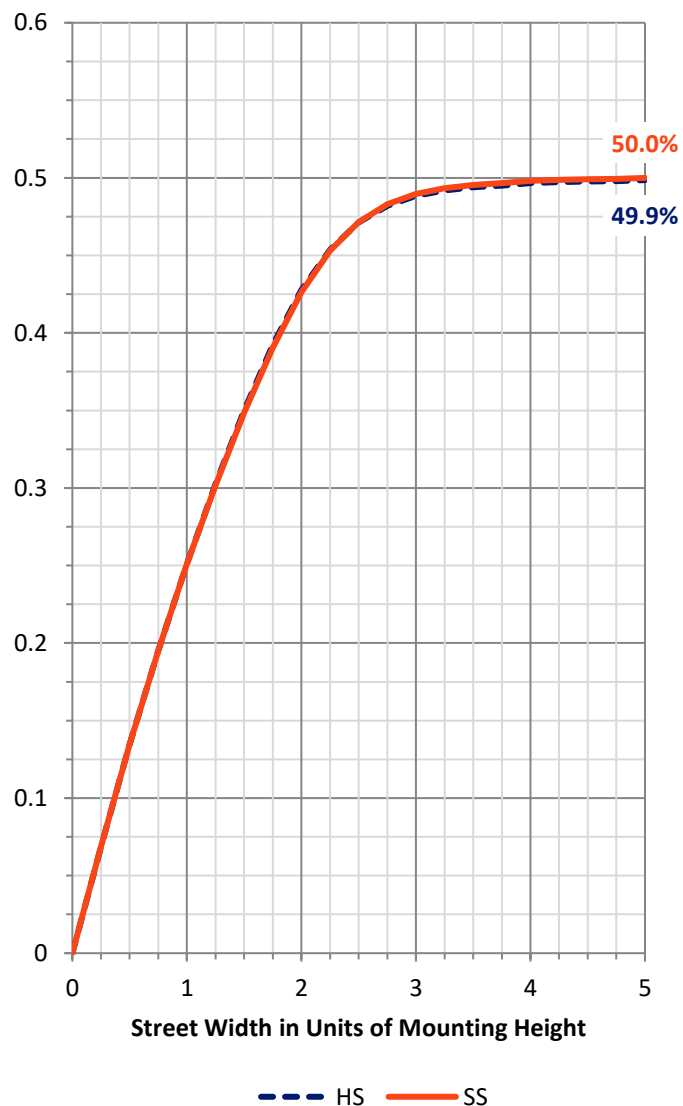
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17976.1	0.0	17976.1
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	18068.4	0.0	18068.4
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	36044.6	0.0	36044.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.6	1.0
10°-20°	1088.5	3.0
20°-30°	1851.0	5.1
30°-40°	2934.9	8.1
40°-50°	4785.6	13.3
50°-60°	8173.1	22.7
60°-70°	12431.2	34.5
70°-80°	4190.1	11.6
80°-90°	217.5	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°	36044.6	100.0
0°-180°	36044.6	100.0

**Coefficient of Utilization**



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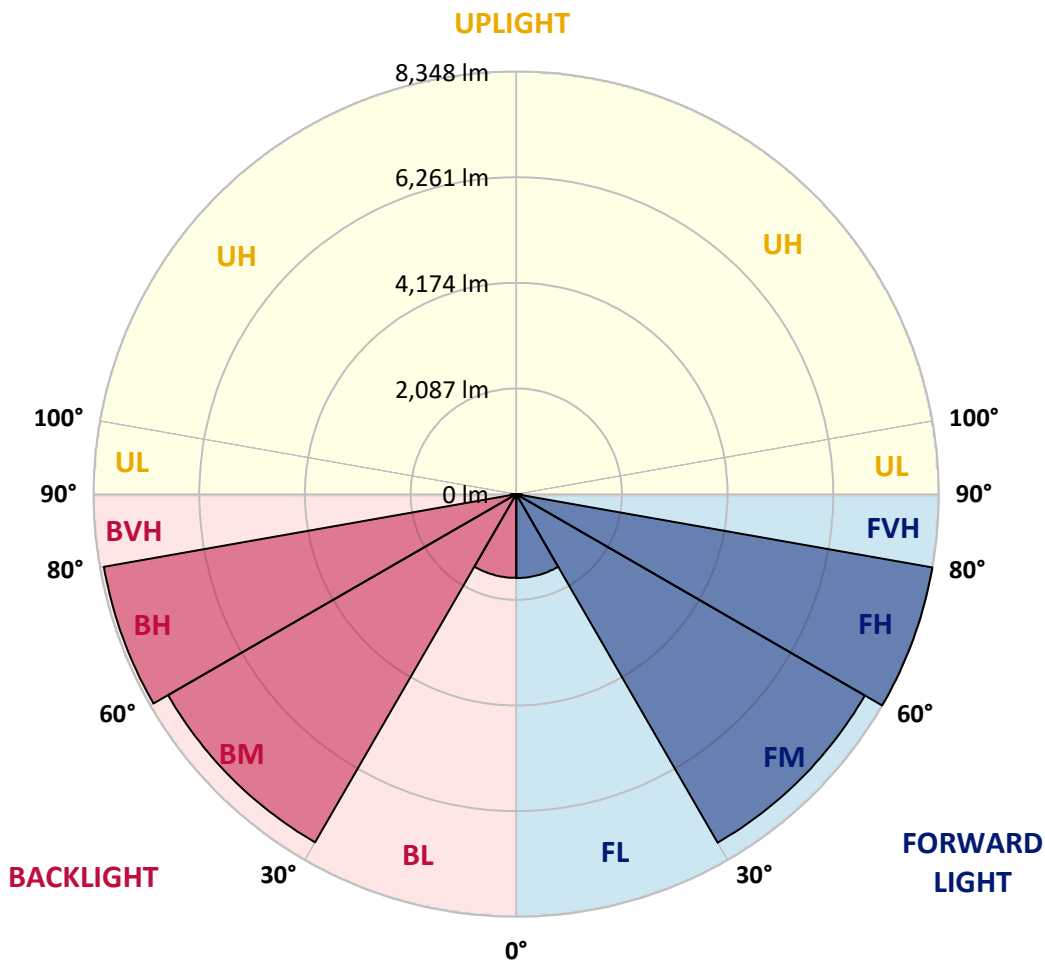
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1657.7	4.6			
FM (30°-60°)	7951.1	22.1			
FH (60°-80°)	8348.3	23.2			G4/12000
FVH (80°-90°)	111.3	0.3			G2/225
BL (0°-30°)	1654.3	4.6	B3/2500		
BM (30°-60°)	7942.5	22.0	B4/8500		
BH (60°-80°)	8273.0	23.0	B5		G4/12000
BVH (80°-90°)	106.3	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°	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2
2.5°	3846.7	3892.0	3924.9	3920.8	3933.1	3945.5	3929.0	3953.7	3937.2	3966.0	3982.5
5°	3920.8	3908.4	3912.6	3887.9	3945.5	3879.6	3879.6	3912.6	3953.7	3904.3	3933.1
7.5°	3875.5	3867.3	3846.7	3883.8	3896.1	3896.1	3929.0	3867.3	3937.2	3953.7	3957.8
10°	3826.2	3780.9	3842.6	3879.6	3887.9	3822.1	3850.8	3867.3	3846.7	3867.3	3879.6
12.5°	3785.0	3809.7	3809.7	3809.7	3797.4	3842.6	3871.4	3867.3	3826.2	3863.2	3797.4
15°	3780.9	3768.6	3805.6	3838.5	3817.9	3826.2	3838.5	3875.5	3797.4	3813.8	3813.8
17.5°	3776.8	3793.3	3805.6	3801.5	3871.4	3871.4	3859.1	3834.4	3896.1	3863.2	3817.9
20°	3793.3	3780.9	3813.8	3826.2	3875.5	3974.3	3937.2	3916.7	3883.8	3842.6	3842.6
22.5°	3813.8	3805.6	3850.8	3904.3	3999.0	4023.6	4019.5	3994.8	3937.2	3887.9	3879.6
25°	3887.9	3813.8	3863.2	3966.0	3999.0	4048.3	4081.2	4048.3	3970.2	3982.5	3908.4
27.5°	3999.0	3986.6	4052.4	4122.4	4093.6	4138.8	4110.0	4134.7	4138.8	4077.1	4003.1
30°	4130.6	4093.6	4134.7	4270.5	4282.8	4332.2	4282.8	4217.0	4237.6	4184.1	4147.1
32.5°	4319.9	4307.5	4385.7	4476.2	4492.7	4468.0	4443.3	4480.3	4393.9	4352.8	4286.9
35°	4443.3	4496.8	4591.4	4661.3	4714.8	4690.1	4702.5	4665.5	4686.0	4599.6	4570.8
37.5°	4809.4	4788.9	4809.4	4928.8	4941.1	4928.8	4941.1	4982.2	4953.4	4879.4	4805.3
40°	5155.0	5122.1	5171.5	5307.3	5299.0	5340.2	5257.9	5303.1	5303.1	5163.3	5134.5
42.5°	5414.2	5525.3	5582.9	5694.0	5735.1	5698.1	5681.6	5689.9	5780.4	5615.8	5554.1
45°	5949.1	5945.0	6117.7	6179.5	6064.3	6056.0	6023.1	6121.9	6183.6	6088.9	6064.3
47.5°	6529.2	6558.0	6656.7	6681.4	6751.3	6623.8	6623.8	6636.1	6854.2	6632.0	6516.8
50°	7051.7	7088.7	7286.2	7479.5	7347.9	7212.1	7265.6	7331.4	7450.7	7240.9	7142.2
52.5°	7685.2	7886.8	8018.5	8121.3	8216.0	8121.3	7997.9	8072.0	8306.5	8026.7	7903.3
55°	8598.6	8759.0	8882.5	9071.7	9149.9	9022.3	9010.0	9001.8	9133.4	8837.2	8668.5
57.5°	9618.9	9553.1	9750.5	10042.7	10326.5	10203.1	10166.1	10174.3	10207.2	9787.6	9660.0
60°	10886.1	10960.1	11194.6	11449.7	11750.0	11922.8	11680.1	11540.2	11569.0	10997.1	10799.7
62.5°	11610.1	11774.7	12305.4	13181.8	13786.5	14325.5	14362.5	13453.3	12844.4	11733.6	10894.3
65°	11260.4	11235.8	12235.5	13856.5	16148.1	17715.6	17481.0	15275.9	13148.8	11383.9	10256.6
67.5°	9577.8	9511.9	10721.5	13292.8	17077.9	20500.8	20233.4	15790.1	12120.3	10071.5	8796.1
70°	6171.2	6154.8	7467.2	10133.2	15247.1	18822.3	18921.0	14341.9	9865.7	7376.7	6113.6
72.5°	2242.2	2378.0	3139.1	5447.1	10355.3	14399.5	14461.3	10618.6	5673.4	3410.6	2513.7
75°	826.9	851.6	991.5	1769.1	4718.9	8841.3	9071.7	5150.9	2015.9	1110.8	905.1
77.5°	477.2	481.4	530.7	658.3	1398.8	3451.8	3591.7	1563.4	781.7	592.4	547.2
80°	325.0	320.9	374.4	427.9	559.5	979.2	1040.9	654.2	493.7	411.4	345.6
82.5°	189.3	201.6	275.6	304.4	341.5	432.0	440.2	407.3	370.3	304.4	226.3
85°	115.2	94.6	152.2	168.7	197.5	193.4	193.4	222.2	238.6	213.9	127.5
87.5°	28.8	28.8	37.0	41.1	53.5	41.1	45.3	86.4	115.2	107.0	65.8
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°	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2	3937.2
2.5°	3945.5	3933.1	3941.4	3986.6	3957.8	3871.4	3892.0	3937.2	3900.2	3879.6	3875.5
5°	3929.0	3953.7	3924.9	3933.1	3961.9	3892.0	3904.3	3961.9	3937.2	3945.5	3900.2
7.5°	3933.1	3945.5	3920.8	3883.8	3883.8	3941.4	3908.4	3916.7	3879.6	3941.4	3859.1
10°	3908.4	3875.5	3846.7	3867.3	3859.1	3842.6	3830.3	3855.0	3817.9	3871.4	3813.8
12.5°	3834.4	3842.6	3834.4	3826.2	3842.6	3883.8	3817.9	3826.2	3768.6	3776.8	3805.6
15°	3805.6	3830.3	3822.1	3867.3	3887.9	3826.2	3875.5	3826.2	3780.9	3756.2	3801.5
17.5°	3817.9	3855.0	3842.6	3875.5	3838.5	3883.8	3892.0	3871.4	3817.9	3797.4	3817.9
20°	3830.3	3817.9	3834.4	3892.0	3945.5	3900.2	3900.2	3887.9	3838.5	3809.7	3809.7
22.5°	3859.1	3838.5	3863.2	3908.4	3924.9	3994.8	3933.1	3904.3	3822.1	3748.0	3817.9
25°	3916.7	3929.0	3945.5	3929.0	4019.5	4011.3	4003.1	3982.5	3855.0	3859.1	3846.7
27.5°	4027.8	3957.8	3978.4	4077.1	4089.5	4122.4	4081.2	4118.3	3982.5	3986.6	3904.3
30°	4163.5	4089.5	4155.3	4241.7	4237.6	4299.3	4278.7	4286.9	4192.3	4138.8	4027.8
32.5°	4311.6	4303.4	4344.5	4398.0	4418.6	4451.5	4447.4	4447.4	4389.8	4249.9	4270.5
35°	4476.2	4533.8	4583.2	4640.8	4649.0	4690.1	4632.5	4640.8	4583.2	4480.3	4513.2
37.5°	4801.2	4797.1	4850.6	4920.5	4928.8	4895.8	4941.1	4920.5	4842.4	4772.4	4718.9
40°	5179.7	5097.4	5146.8	5311.4	5323.7	5266.1	5262.0	5257.9	5200.3	5048.1	5015.2
42.5°	5508.9	5615.8	5607.6	5661.1	5624.1	5595.3	5698.1	5640.5	5595.3	5434.8	5406.0
45°	5932.6	5965.5	6072.5	6245.3	6068.4	6068.4	6138.3	6093.1	6068.4	5949.1	5838.0
47.5°	6459.2	6488.0	6702.0	6714.3	6599.1	6520.9	6739.0	6747.2	6644.4	6553.8	6418.1
50°	7076.3	7088.7	7282.1	7479.5	7352.0	7203.9	7426.1	7512.4	7282.1	7158.6	6989.9
52.5°	7755.2	7718.2	7878.6	8248.9	8125.5	8080.2	8318.8	8339.4	8026.7	7833.4	7878.6
55°	8536.9	8487.5	8923.6	9174.6	9096.4	9014.1	9121.1	9170.5	8919.5	8602.7	8713.8
57.5°	9549.0	9573.6	9791.7	10038.5	10166.1	10186.6	10236.0	10186.6	9931.6	9610.7	9507.8
60°	10561.0	10635.1	11058.8	11523.7	11564.9	11926.9	11861.1	11614.3	11252.2	10795.5	10816.1
62.5°	10935.4	10873.7	11556.7	12692.2	13659.0	14321.4	14029.3	13153.0	12313.7	11482.6	11544.3
65°	10182.5	10334.8	11264.6	13041.9	15140.1	17760.8	16205.7	13782.4	12087.4	11013.6	10894.3
67.5°	8775.5	8890.7	10071.5	11947.5	15670.8	19875.5	17028.5	12893.8	10659.8	9269.2	9343.2
70°	6113.6	6171.2	7327.3	9787.6	14210.3	18756.4	15362.3	9902.8	7360.2	5866.8	5949.1
72.5°	2460.3	2600.1	3361.3	5895.6	10491.1	14251.4	10343.0	5196.2	3052.7	2271.0	2061.2
75°	909.2	913.3	1073.8	2028.3	4982.2	8956.5	4665.5	1670.3	975.1	798.1	761.1
77.5°	526.6	522.5	559.5	732.3	1444.1	3497.0	1324.8	654.2	530.7	477.2	456.7
80°	329.1	325.0	382.6	485.5	633.6	958.6	559.5	407.3	357.9	308.6	308.6
82.5°	209.8	213.9	300.3	357.9	386.7	423.8	325.0	288.0	267.4	176.9	172.8
85°	135.8	123.4	209.8	238.6	213.9	189.3	181.0	152.2	139.9	86.4	94.6
87.5°	61.7	65.8	107.0	119.3	78.2	45.3	45.3	32.9	32.9	20.6	20.6
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)