

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: P479272

Luminaire Tested: **IFLD-M-SA4E-730-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479272  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

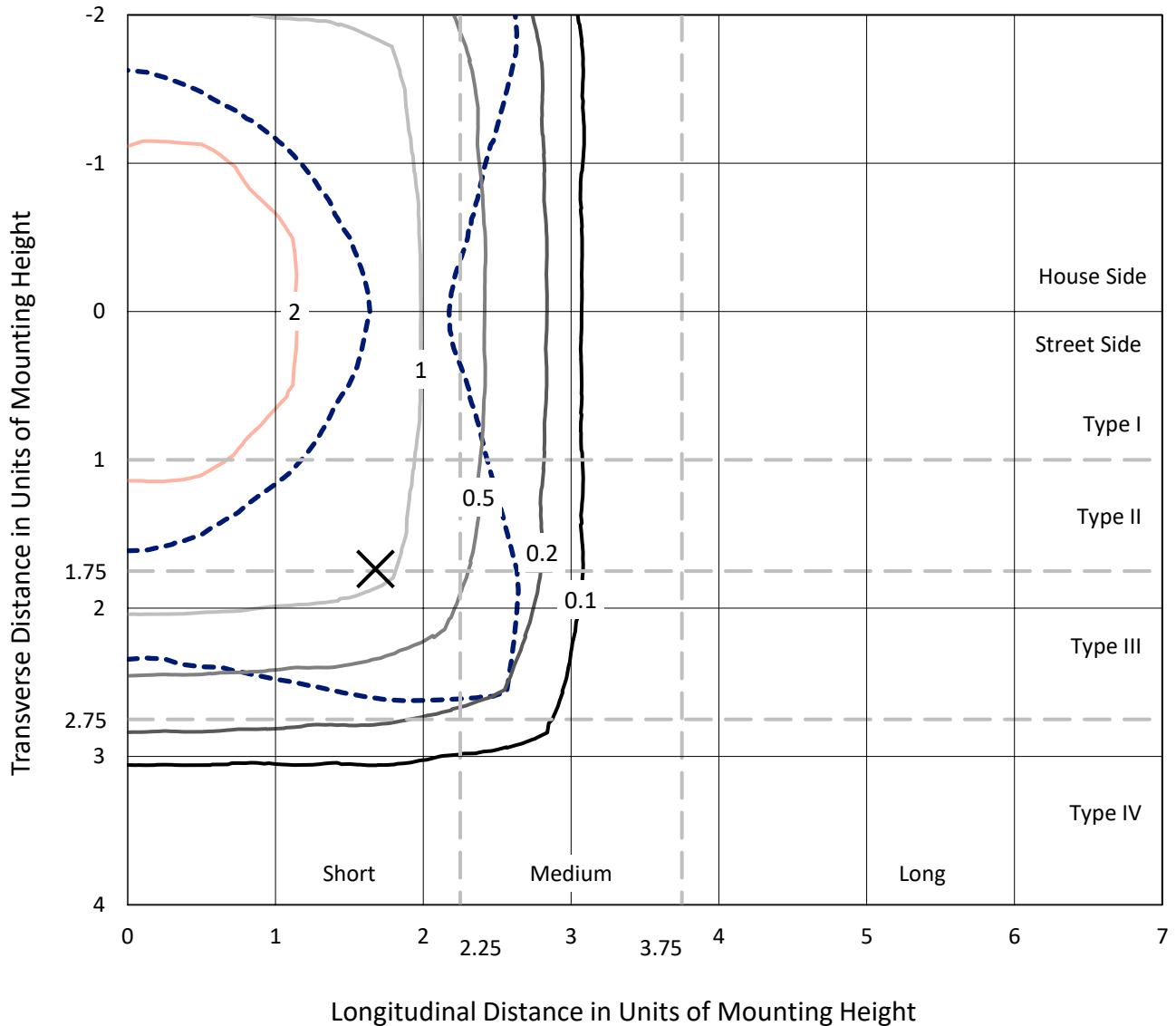
Lumens per Lamp: N/A  
Luminaire Lumens: 33278.1 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

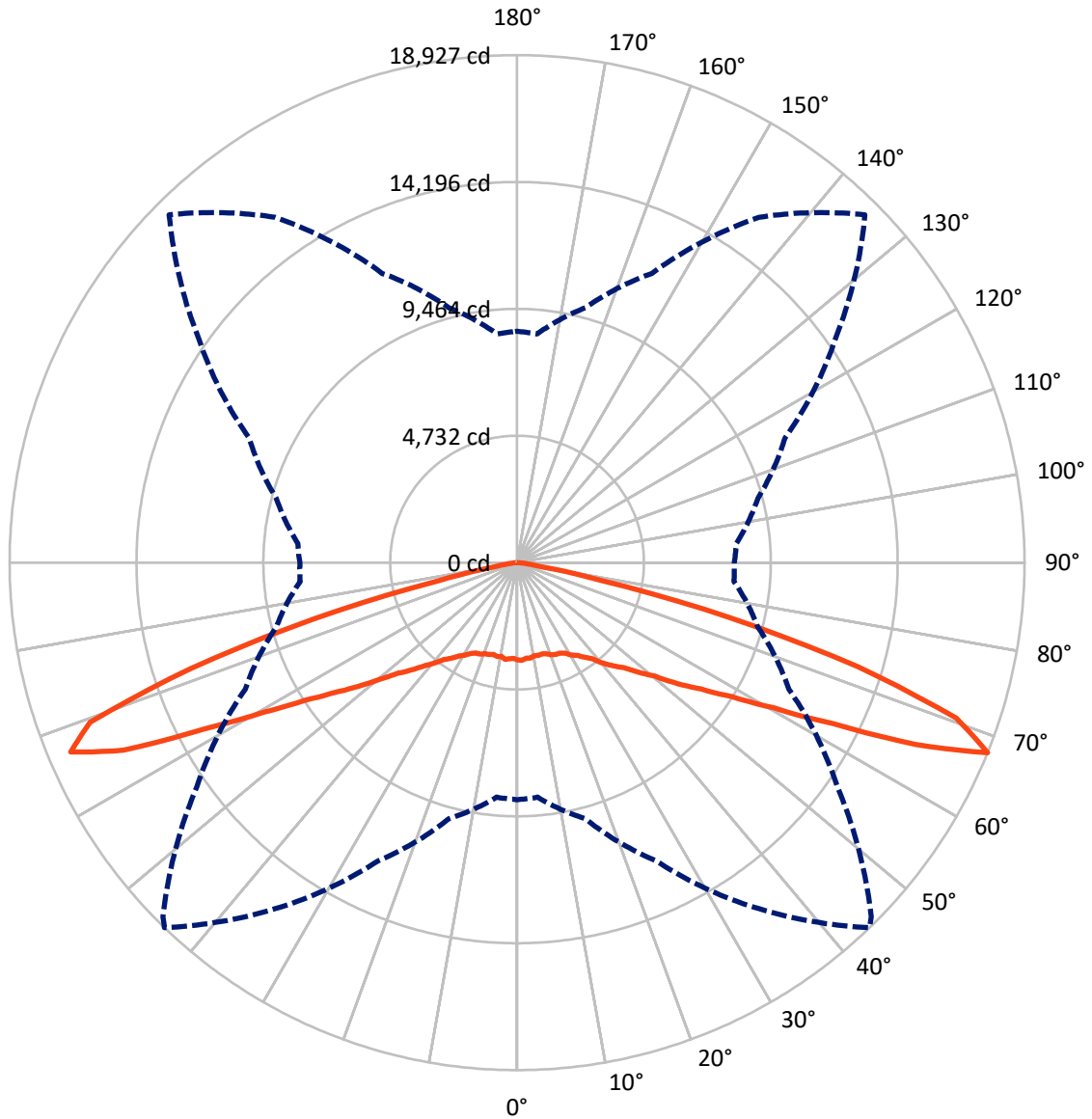
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 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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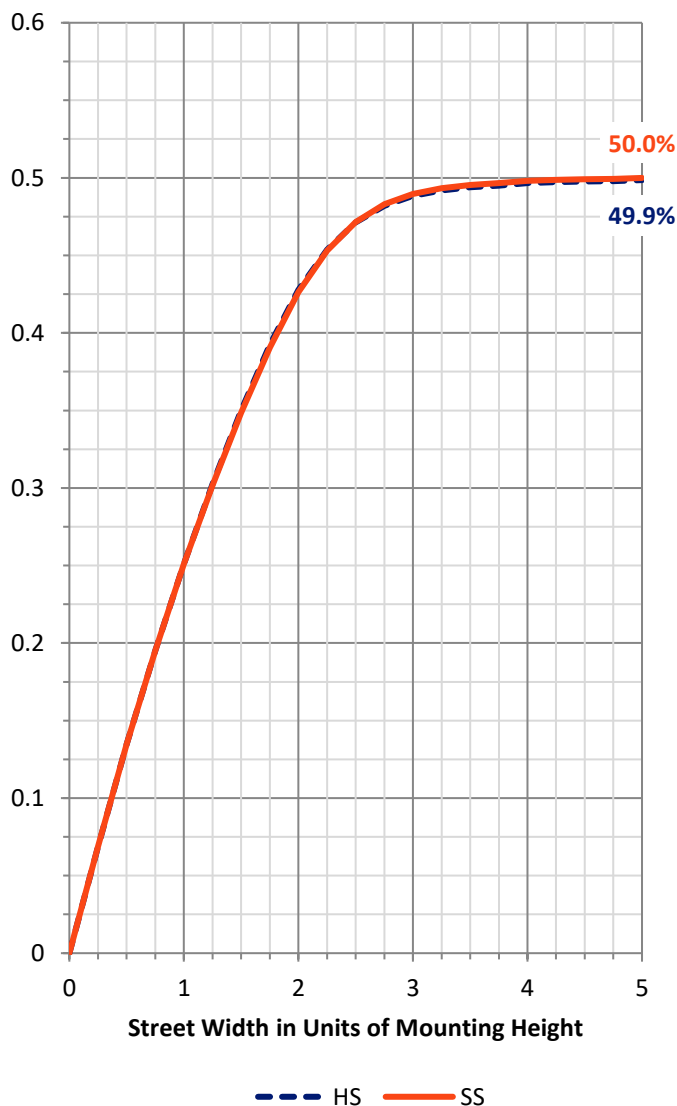
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16596.4	0.0	16596.4
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	16681.7	0.0	16681.7
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	33278.1	0.0	33278.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.0	1.0
10°-20°	1004.9	3.0
20°-30°	1709.0	5.1
30°-40°	2709.6	8.1
40°-50°	4418.3	13.3
50°-60°	7545.8	22.7
60°-70°	11477.1	34.5
70°-80°	3868.5	11.6
80°-90°	200.9	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°	33278.1	100.0
0°-180°	33278.1	100.0

**Coefficient of Utilization**



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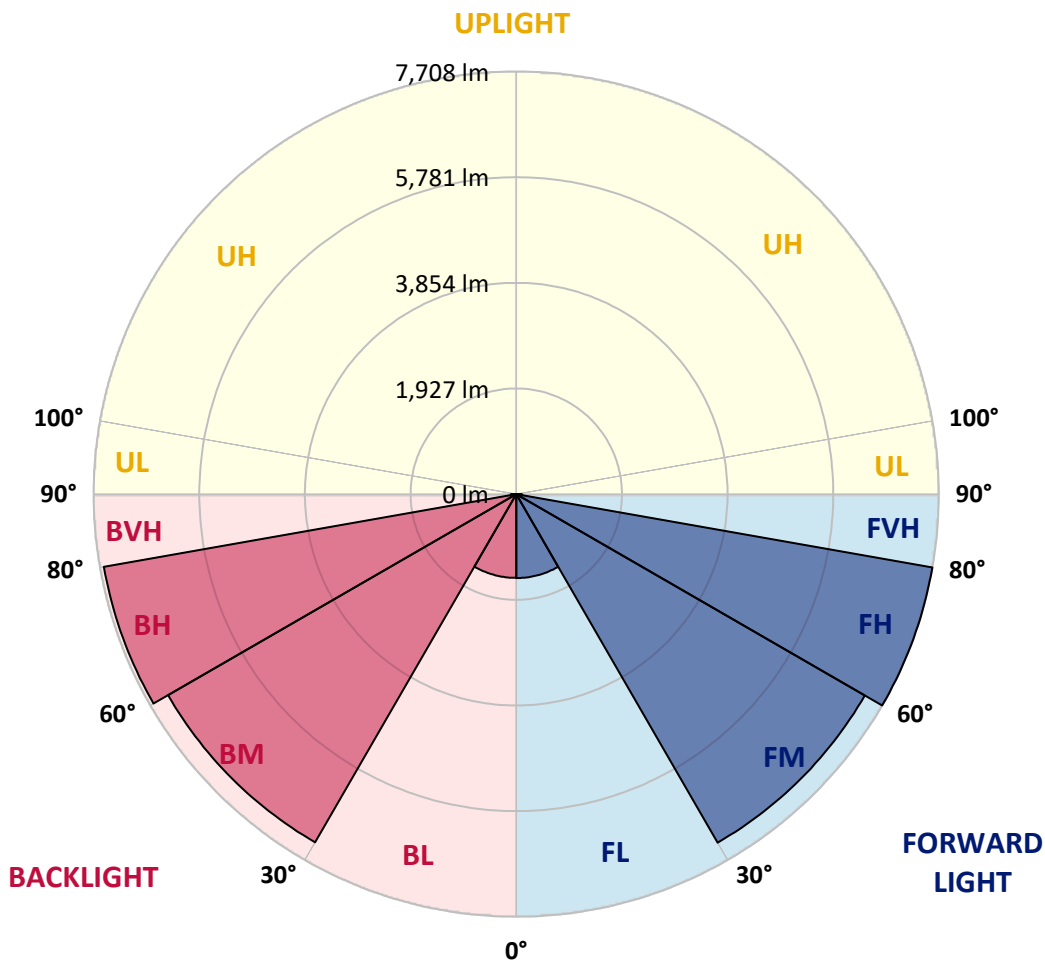
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.5	4.6			
FM (30°-60°)	7340.8	22.1			
FH (60°-80°)	7707.6	23.2			G4/12000
FVH (80°-90°)	102.8	0.3			G2/225
BL (0°-30°)	1527.4	4.6	B3/2500		
BM (30°-60°)	7332.9	22.0	B4/8500		
BH (60°-80°)	7638.1	23.0	B5		G4/12000
BVH (80°-90°)	98.1	0.3			G1/100
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°	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1
2.5°	3551.5	3593.3	3623.7	3619.9	3631.3	3642.7	3627.5	3650.3	3635.1	3661.6	3676.8
5°	3619.9	3608.5	3612.3	3589.5	3642.7	3581.9	3581.9	3612.3	3650.3	3604.7	3631.3
7.5°	3578.1	3570.5	3551.5	3585.7	3597.1	3597.1	3627.5	3570.5	3635.1	3650.3	3654.0
10°	3532.5	3490.7	3547.7	3581.9	3589.5	3528.7	3555.3	3570.5	3551.5	3570.5	3581.9
12.5°	3494.5	3517.3	3517.3	3517.3	3505.9	3547.7	3574.3	3570.5	3532.5	3566.7	3505.9
15°	3490.7	3479.3	3513.5	3543.9	3524.9	3532.5	3543.9	3578.1	3505.9	3521.1	3521.1
17.5°	3486.9	3502.1	3513.5	3509.7	3574.3	3574.3	3562.9	3540.1	3597.1	3566.7	3524.9
20°	3502.1	3490.7	3521.1	3532.5	3578.1	3669.2	3635.1	3616.1	3585.7	3547.7	3547.7
22.5°	3521.1	3513.5	3555.3	3604.7	3692.0	3714.8	3711.0	3688.2	3635.1	3589.5	3581.9
25°	3589.5	3521.1	3566.7	3661.6	3692.0	3737.6	3768.0	3737.6	3665.4	3676.8	3608.5
27.5°	3692.0	3680.6	3741.4	3806.0	3779.4	3821.2	3794.6	3817.4	3821.2	3764.2	3695.8
30°	3813.6	3779.4	3817.4	3942.7	3954.1	3999.7	3954.1	3893.3	3912.3	3863.0	3828.8
32.5°	3988.3	3976.9	4049.1	4132.6	4147.8	4125.0	4102.3	4136.4	4056.7	4018.7	3957.9
35°	4102.3	4151.6	4239.0	4303.6	4353.0	4330.2	4341.6	4307.4	4326.4	4246.6	4220.0
37.5°	4440.3	4421.3	4440.3	4550.5	4561.9	4550.5	4561.9	4599.8	4573.3	4504.9	4436.5
40°	4759.4	4729.0	4774.6	4899.9	4892.3	4930.3	4854.3	4896.1	4896.1	4767.0	4740.4
42.5°	4998.7	5101.2	5154.4	5257.0	5295.0	5260.8	5245.6	5253.2	5336.7	5184.8	5127.8
45°	5492.5	5488.7	5648.2	5705.2	5598.8	5591.2	5560.8	5652.0	5709.0	5621.6	5598.8
47.5°	6028.0	6054.6	6145.8	6168.6	6233.2	6115.4	6115.4	6126.8	6328.1	6123.0	6016.6
50°	6510.4	6544.6	6726.9	6905.5	6783.9	6658.6	6708.0	6768.7	6878.9	6685.2	6594.0
52.5°	7095.4	7281.5	7403.1	7498.0	7585.4	7498.0	7384.1	7452.4	7668.9	7410.7	7296.7
55°	7938.6	8086.8	8200.7	8375.4	8447.6	8329.9	8318.5	8310.9	8432.4	8158.9	8003.2
57.5°	8880.6	8819.9	9002.2	9271.9	9534.0	9420.0	9385.8	9393.4	9423.8	9036.4	8918.6
60°	10050.5	10118.9	10335.4	10570.9	10848.2	11007.7	10783.6	10654.5	10681.1	10153.1	9970.8
62.5°	10719.0	10871.0	11361.0	12170.0	12728.4	13226.0	13260.2	12420.7	11858.6	10833.0	10058.1
65°	10396.2	10373.4	11296.4	12793.0	14908.7	16355.9	16139.3	14103.4	12139.6	10510.1	9469.4
67.5°	8842.6	8781.9	9898.6	12272.6	15767.1	18927.4	18680.5	14578.2	11190.0	9298.5	8121.0
70°	5697.6	5682.4	6894.1	9355.4	14076.8	17377.6	17468.8	13241.2	9108.5	6810.5	5644.4
72.5°	2070.1	2195.5	2898.2	5029.1	9560.5	13294.4	13351.3	9803.6	5238.0	3148.9	2320.8
75°	763.5	786.3	915.4	1633.3	4356.8	8162.7	8375.4	4755.6	1861.2	1025.6	835.6
77.5°	440.6	444.4	490.0	607.7	1291.5	3186.8	3316.0	1443.4	721.7	547.0	505.2
80°	300.1	296.3	345.7	395.0	516.6	904.0	961.0	603.9	455.8	379.8	319.1
82.5°	174.7	186.1	254.5	281.1	315.3	398.8	406.4	376.0	341.9	281.1	208.9
85°	106.4	87.4	140.5	155.7	182.3	178.5	178.5	205.1	220.3	197.5	117.8
87.5°	26.6	26.6	34.2	38.0	49.4	38.0	41.8	79.8	106.4	98.8	60.8
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°	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1	3635.1
2.5°	3642.7	3631.3	3638.9	3680.6	3654.0	3574.3	3593.3	3635.1	3600.9	3581.9	3578.1
5°	3627.5	3650.3	3623.7	3631.3	3657.8	3593.3	3604.7	3657.8	3635.1	3642.7	3600.9
7.5°	3631.3	3642.7	3619.9	3585.7	3585.7	3638.9	3608.5	3616.1	3581.9	3638.9	3562.9
10°	3608.5	3578.1	3551.5	3570.5	3562.9	3547.7	3536.3	3559.1	3524.9	3574.3	3521.1
12.5°	3540.1	3547.7	3540.1	3532.5	3547.7	3585.7	3524.9	3532.5	3479.3	3486.9	3513.5
15°	3513.5	3536.3	3528.7	3570.5	3589.5	3532.5	3578.1	3532.5	3490.7	3467.9	3509.7
17.5°	3524.9	3559.1	3547.7	3578.1	3543.9	3585.7	3593.3	3574.3	3524.9	3505.9	3524.9
20°	3536.3	3524.9	3540.1	3593.3	3642.7	3600.9	3600.9	3589.5	3543.9	3517.3	3517.3
22.5°	3562.9	3543.9	3566.7	3608.5	3623.7	3688.2	3631.3	3604.7	3528.7	3460.3	3524.9
25°	3616.1	3627.5	3642.7	3627.5	3711.0	3703.4	3695.8	3676.8	3559.1	3562.9	3551.5
27.5°	3718.6	3654.0	3673.0	3764.2	3775.6	3806.0	3768.0	3802.2	3676.8	3680.6	3604.7
30°	3844.0	3775.6	3836.4	3916.1	3912.3	3969.3	3950.3	3957.9	3870.6	3821.2	3718.6
32.5°	3980.7	3973.1	4011.1	4060.5	4079.5	4109.9	4106.1	4106.1	4052.9	3923.7	3942.7
35°	4132.6	4185.8	4231.4	4284.6	4292.2	4330.2	4277.0	4284.6	4231.4	4136.4	4166.8
37.5°	4432.7	4428.9	4478.3	4542.9	4550.5	4520.1	4561.9	4542.9	4470.7	4406.1	4356.8
40°	4782.2	4706.2	4751.8	4903.7	4915.1	4861.9	4858.1	4854.3	4801.2	4660.6	4630.2
42.5°	5086.0	5184.8	5177.2	5226.6	5192.4	5165.8	5260.8	5207.6	5165.8	5017.7	4991.1
45°	5477.3	5507.7	5606.4	5766.0	5602.6	5602.6	5667.2	5625.4	5602.6	5492.5	5389.9
47.5°	5963.5	5990.1	6187.6	6199.0	6092.6	6020.4	6221.8	6229.4	6134.4	6050.8	5925.5
50°	6533.2	6544.6	6723.1	6905.5	6787.7	6651.0	6856.1	6935.9	6723.1	6609.2	6453.5
52.5°	7160.0	7125.8	7273.9	7615.8	7501.8	7460.0	7680.3	7699.3	7410.7	7232.1	7273.9
55°	7881.7	7836.1	8238.7	8470.4	8398.2	8322.3	8421.0	8466.6	8234.9	7942.4	8045.0
57.5°	8816.1	8838.8	9040.2	9268.1	9385.8	9404.8	9450.4	9404.8	9169.3	8873.0	8778.1
60°	9750.5	9818.8	10210.1	10639.3	10677.3	11011.5	10950.8	10722.8	10388.6	9967.0	9986.0
62.5°	10096.1	10039.1	10669.7	11718.0	12610.6	13222.2	12952.5	12143.4	11368.6	10601.3	10658.3
65°	9401.0	9541.5	10400.0	12040.9	13978.1	16397.6	14961.8	12724.6	11159.7	10168.3	10058.1
67.5°	8102.0	8208.3	9298.5	11030.5	14468.1	18350.0	15721.5	11904.1	9841.6	8557.8	8626.1
70°	5644.4	5697.6	6764.9	9036.4	13119.6	17316.8	14183.2	9142.7	6795.3	5416.5	5492.5
72.5°	2271.4	2400.6	3103.3	5443.1	9685.9	13157.6	9549.1	4797.4	2818.4	2096.7	1903.0
75°	839.4	843.2	991.4	1872.6	4599.8	8269.1	4307.4	1542.1	900.2	736.9	702.7
77.5°	486.2	482.4	516.6	676.1	1333.2	3228.6	1223.1	603.9	490.0	440.6	421.6
80°	303.9	300.1	353.3	448.2	585.0	885.0	516.6	376.0	330.5	284.9	284.9
82.5°	193.7	197.5	277.3	330.5	357.0	391.2	300.1	265.9	246.9	163.3	159.5
85°	125.3	114.0	193.7	220.3	197.5	174.7	167.1	140.5	129.1	79.8	87.4
87.5°	57.0	60.8	98.8	110.2	72.2	41.8	41.8	30.4	30.4	19.0	19.0
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)