

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: P479312

Luminaire Tested: **IFLD-L-SA7A-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479312  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

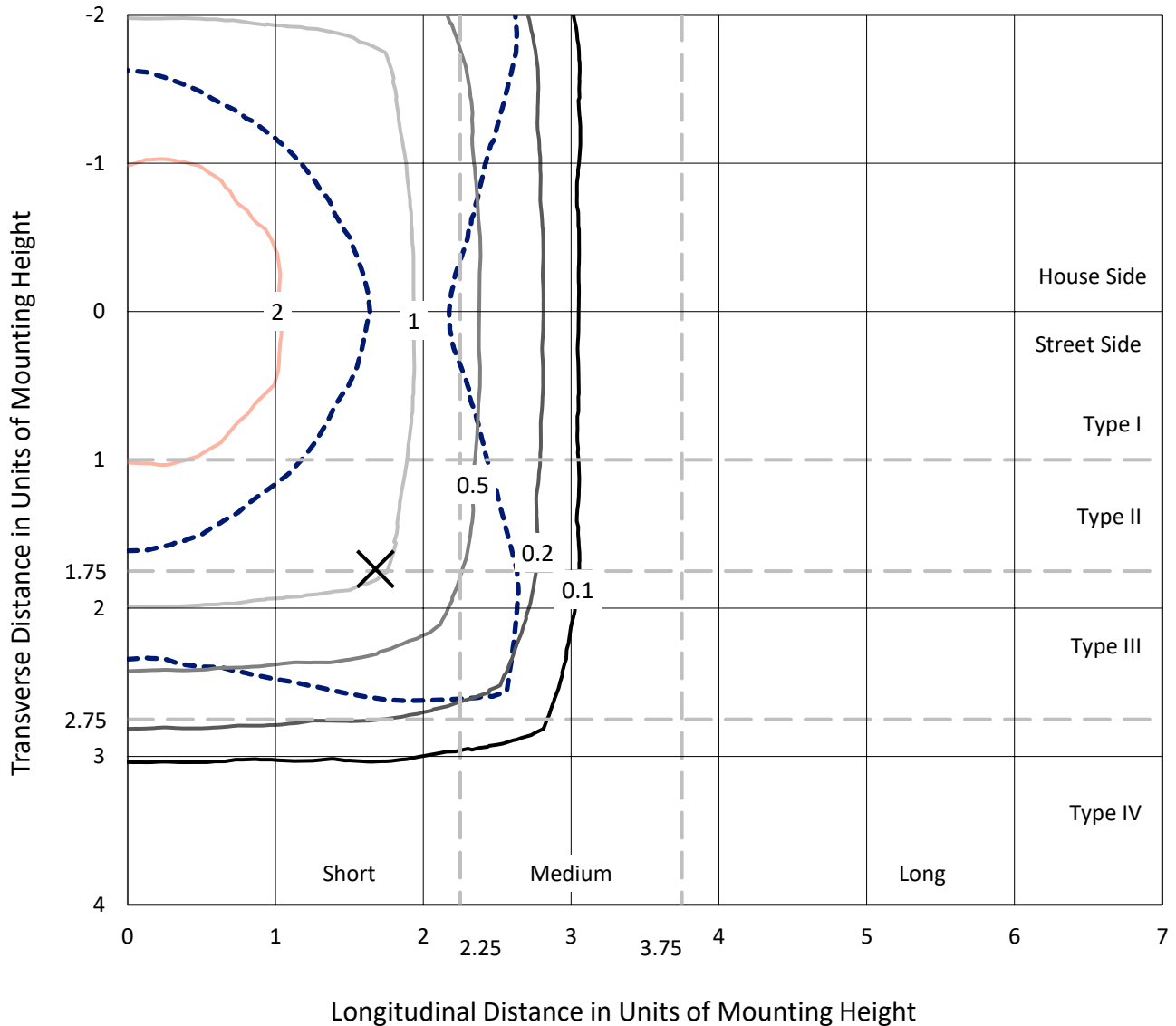
Lumens per Lamp: N/A  
Luminaire Lumens: 31162.2 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 217.6  
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

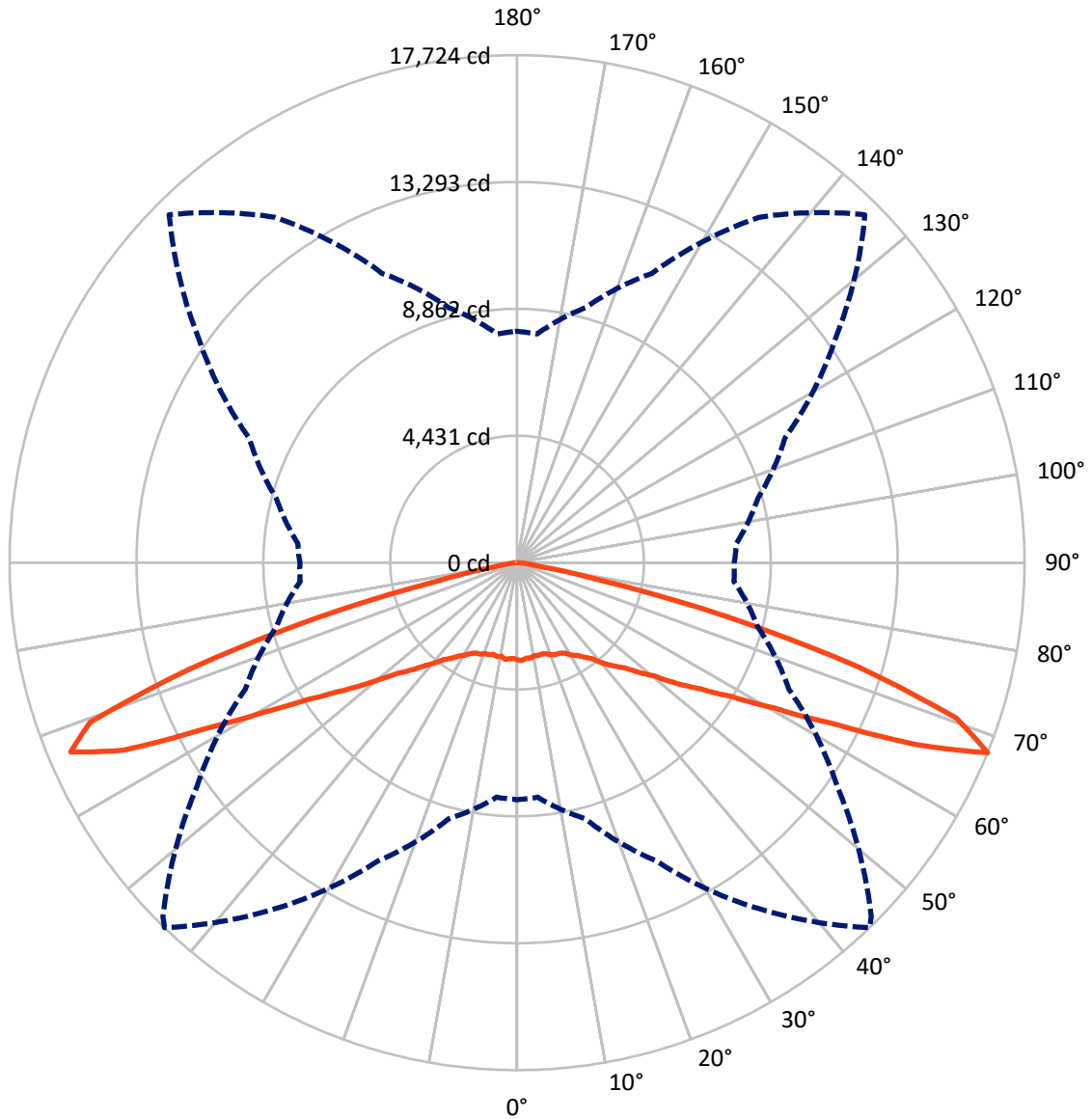
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 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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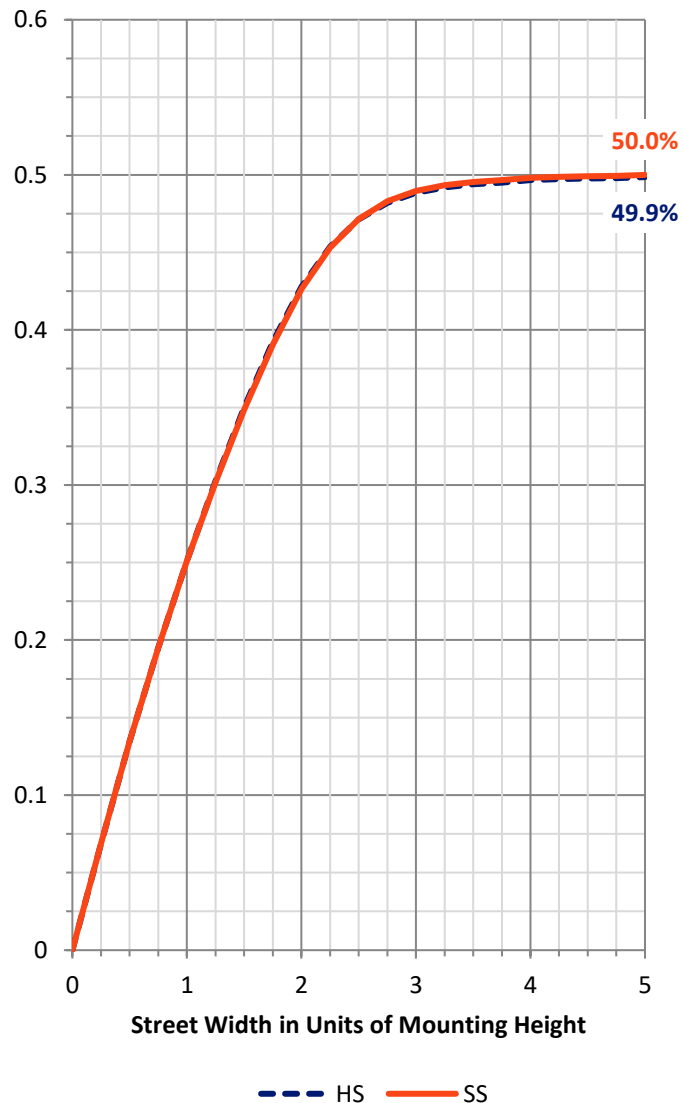
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15541.2	0.0	15541.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	15621.0	0.0	15621.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	31162.2	0.0	31162.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.1	1.0
10°-20°	941.0	3.0
20°-30°	1600.3	5.1
30°-40°	2537.3	8.1
40°-50°	4137.4	13.3
50°-60°	7066.0	22.7
60°-70°	10747.4	34.5
70°-80°	3622.5	11.6
80°-90°	188.1	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°	31162.2	100.0
0°-180°	31162.2	100.0

**Coefficient of Utilization**



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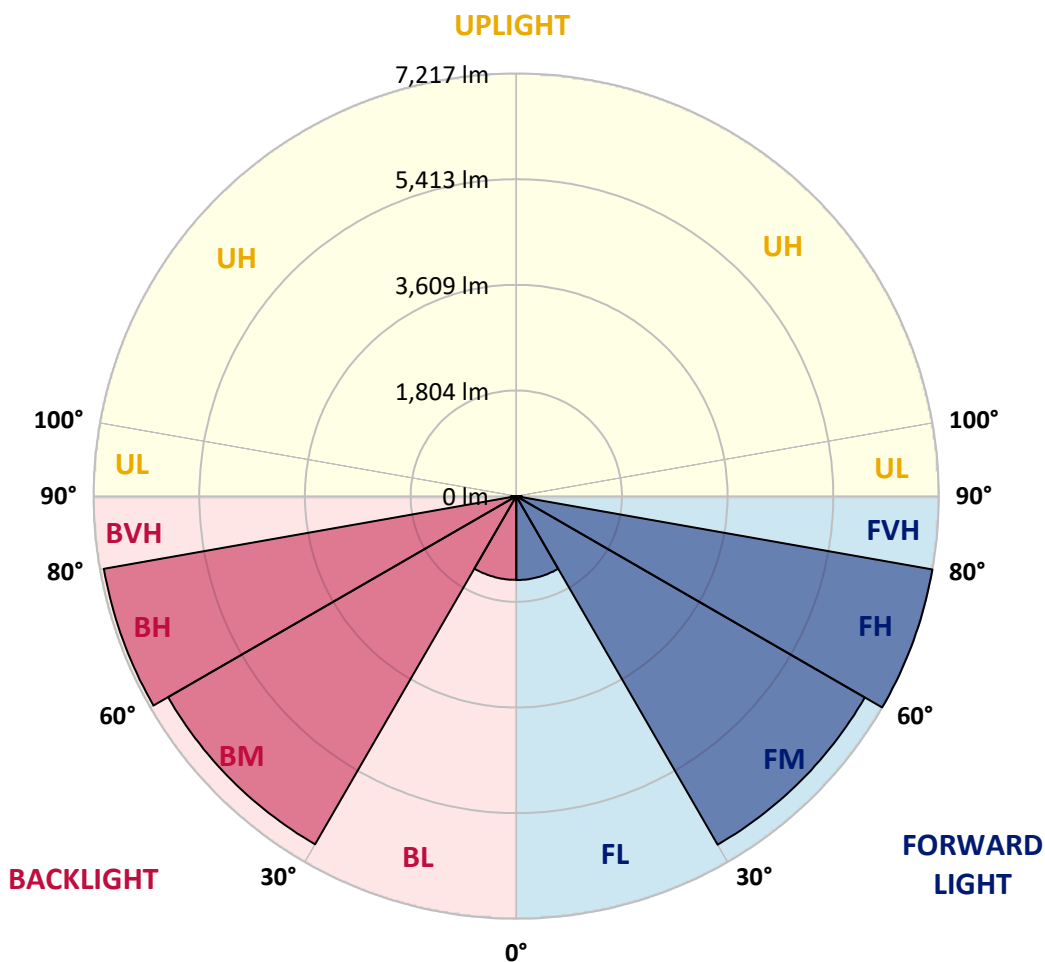
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.2	4.6			
FM (30°-60°)	6874.1	22.1			
FH (60°-80°)	7217.5	23.2			G3/7500
FVH (80°-90°)	96.2	0.3			G1/100
BL (0°-30°)	1430.3	4.6	B3/2500		
BM (30°-60°)	6866.7	22.0	B4/8500		
BH (60°-80°)	7152.4	23.0	B5		G3/7500
BVH (80°-90°)	91.9	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9
2.5°	3325.7	3364.8	3393.3	3389.7	3400.4	3411.0	3396.8	3418.2	3403.9	3428.8	3443.1
5°	3389.7	3379.0	3382.6	3361.2	3411.0	3354.1	3354.1	3382.6	3418.2	3375.5	3400.4
7.5°	3350.6	3343.5	3325.7	3357.7	3368.4	3368.4	3396.8	3343.5	3403.9	3418.2	3421.7
10°	3307.9	3268.8	3322.1	3354.1	3361.2	3304.3	3329.2	3343.5	3325.7	3343.5	3354.1
12.5°	3272.3	3293.7	3293.7	3293.7	3283.0	3322.1	3347.0	3343.5	3307.9	3339.9	3283.0
15°	3268.8	3258.1	3290.1	3318.6	3300.8	3307.9	3318.6	3350.6	3283.0	3297.2	3297.2
17.5°	3265.2	3279.4	3290.1	3286.6	3347.0	3347.0	3336.3	3315.0	3368.4	3339.9	3300.8
20°	3279.4	3268.8	3297.2	3307.9	3350.6	3435.9	3403.9	3386.1	3357.7	3322.1	3322.1
22.5°	3297.2	3290.1	3329.2	3375.5	3457.3	3478.6	3475.1	3453.7	3403.9	3361.2	3354.1
25°	3361.2	3297.2	3339.9	3428.8	3457.3	3500.0	3528.4	3500.0	3432.4	3443.1	3379.0
27.5°	3457.3	3446.6	3503.5	3564.0	3539.1	3578.2	3553.3	3574.7	3578.2	3524.9	3460.8
30°	3571.1	3539.1	3574.7	3692.0	3702.7	3745.4	3702.7	3645.8	3663.6	3617.3	3585.3
32.5°	3734.7	3724.0	3791.6	3869.9	3884.1	3862.8	3841.4	3873.4	3798.7	3763.2	3706.3
35°	3841.4	3887.7	3969.5	4029.9	4076.2	4054.8	4065.5	4033.5	4051.3	3976.6	3951.7
37.5°	4158.0	4140.2	4158.0	4261.1	4271.8	4261.1	4271.8	4307.4	4282.5	4218.5	4154.4
40°	4456.8	4428.3	4471.0	4588.4	4581.3	4616.8	4545.7	4584.8	4584.8	4463.9	4439.0
42.5°	4680.8	4776.9	4826.7	4922.7	4958.3	4926.3	4912.0	4919.2	4997.4	4855.1	4801.8
45°	5143.2	5139.7	5289.1	5342.4	5242.8	5235.7	5207.3	5292.6	5346.0	5264.2	5242.8
47.5°	5644.8	5669.7	5755.0	5776.4	5836.8	5726.6	5726.6	5737.2	5925.8	5733.7	5634.1
50°	6096.5	6128.5	6299.2	6466.4	6352.6	6235.2	6281.4	6338.4	6441.5	6260.1	6174.7
52.5°	6644.2	6818.5	6932.3	7021.3	7103.1	7021.3	6914.6	6978.6	7181.3	6939.5	6832.8
55°	7433.9	7572.6	7679.3	7842.9	7910.5	7800.2	7789.6	7782.4	7896.3	7640.2	7494.3
57.5°	8316.0	8259.1	8429.8	8682.3	8927.8	8821.1	8789.0	8796.2	8824.6	8461.8	8351.5
60°	9411.5	9475.5	9678.3	9898.8	10158.4	10307.8	10098.0	9977.0	10001.9	9507.5	9336.8
62.5°	10037.5	10179.8	10638.6	11396.2	11919.1	12385.0	12417.1	11631.0	11104.6	10144.2	9418.6
65°	9735.2	9713.8	10578.1	11979.6	13960.7	15315.9	15113.2	13206.7	11367.8	9841.9	8867.3
67.5°	8280.4	8223.5	9269.2	11492.3	14764.6	17723.9	17492.7	13651.3	10478.6	8707.2	7604.6
70°	5335.3	5321.1	6455.7	8760.6	13181.8	16272.7	16358.1	12399.3	8529.4	6377.5	5285.5
72.5°	1938.5	2055.9	2713.9	4709.3	8952.7	12449.1	12502.4	9180.3	4904.9	2948.6	2173.3
75°	714.9	736.3	857.2	1529.5	4079.7	7643.7	7842.9	4453.2	1742.9	960.4	782.5
77.5°	412.6	416.2	458.8	569.1	1209.3	2984.2	3105.2	1351.6	675.8	512.2	473.1
80°	281.0	277.4	323.7	369.9	483.7	846.5	899.9	565.5	426.8	355.7	298.8
82.5°	163.6	174.3	238.3	263.2	295.2	373.5	380.6	352.1	320.1	263.2	195.6
85°	99.6	81.8	131.6	145.8	170.7	167.2	167.2	192.1	206.3	185.0	110.3
87.5°	24.9	24.9	32.0	35.6	46.2	35.6	39.1	74.7	99.6	92.5	56.9
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°	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9	3403.9
2.5°	3411.0	3400.4	3407.5	3446.6	3421.7	3347.0	3364.8	3403.9	3371.9	3354.1	3350.6
5°	3396.8	3418.2	3393.3	3400.4	3425.3	3364.8	3375.5	3425.3	3403.9	3411.0	3371.9
7.5°	3400.4	3411.0	3389.7	3357.7	3357.7	3407.5	3379.0	3386.1	3354.1	3407.5	3336.3
10°	3379.0	3350.6	3325.7	3343.5	3336.3	3322.1	3311.5	3332.8	3300.8	3347.0	3297.2
12.5°	3315.0	3322.1	3315.0	3307.9	3322.1	3357.7	3300.8	3307.9	3258.1	3265.2	3290.1
15°	3290.1	3311.5	3304.3	3343.5	3361.2	3307.9	3350.6	3307.9	3268.8	3247.4	3286.6
17.5°	3300.8	3332.8	3322.1	3350.6	3318.6	3357.7	3364.8	3347.0	3300.8	3283.0	3300.8
20°	3311.5	3300.8	3315.0	3364.8	3411.0	3371.9	3371.9	3361.2	3318.6	3293.7	3293.7
22.5°	3336.3	3318.6	3339.9	3379.0	3393.3	3453.7	3400.4	3375.5	3304.3	3240.3	3300.8
25°	3386.1	3396.8	3411.0	3396.8	3475.1	3468.0	3460.8	3443.1	3332.8	3336.3	3325.7
27.5°	3482.2	3421.7	3439.5	3524.9	3535.5	3564.0	3528.4	3560.4	3443.1	3446.6	3375.5
30°	3599.6	3535.5	3592.4	3667.1	3663.6	3716.9	3699.2	3706.3	3624.5	3578.2	3482.2
32.5°	3727.6	3720.5	3756.1	3802.3	3820.1	3848.5	3845.0	3845.0	3795.2	3674.3	3692.0
35°	3869.9	3919.7	3962.4	4012.2	4019.3	4054.8	4005.0	4012.2	3962.4	3873.4	3901.9
37.5°	4150.9	4147.3	4193.6	4254.0	4261.1	4232.7	4271.8	4254.0	4186.4	4126.0	4079.7
40°	4478.1	4407.0	4449.7	4591.9	4602.6	4552.8	4549.2	4545.7	4495.9	4364.3	4335.8
42.5°	4762.7	4855.1	4848.0	4894.3	4862.2	4837.4	4926.3	4876.5	4837.4	4698.6	4673.7
45°	5129.0	5157.5	5249.9	5399.3	5246.4	5246.4	5306.9	5267.7	5246.4	5143.2	5047.2
47.5°	5584.3	5609.2	5794.1	5804.8	5705.2	5637.6	5826.2	5833.3	5744.4	5666.1	5548.7
50°	6117.8	6128.5	6295.7	6466.4	6356.1	6228.1	6420.2	6494.9	6295.7	6189.0	6043.1
52.5°	6704.7	6672.7	6811.4	7131.5	7024.8	6985.7	7192.0	7209.8	6939.5	6772.3	6811.4
55°	7380.5	7337.8	7714.9	7931.8	7864.3	7793.1	7885.6	7928.3	7711.3	7437.4	7533.5
57.5°	8255.5	8276.8	8465.4	8678.8	8789.0	8806.8	8849.5	8806.8	8586.3	8308.9	8219.9
60°	9130.5	9194.5	9560.9	9962.8	9998.4	10311.4	10254.5	10041.1	9728.1	9333.2	9351.0
62.5°	9454.2	9400.8	9991.3	10973.0	11808.8	12381.5	12128.9	11371.3	10645.7	9927.2	9980.6
65°	8803.3	8934.9	9738.7	11275.3	13089.3	15355.0	14010.5	11915.5	10450.1	9521.8	9418.6
67.5°	7586.8	7686.4	8707.2	10329.2	13548.1	17183.3	14721.9	11147.2	9215.9	8013.6	8077.7
70°	5285.5	5335.3	6334.8	8461.8	12285.4	16215.8	13281.4	8561.4	6363.2	5072.1	5143.2
72.5°	2127.0	2247.9	2906.0	5097.0	9070.0	12321.0	8942.0	4492.3	2639.2	1963.4	1782.0
75°	786.1	789.6	928.3	1753.5	4307.4	7743.3	4033.5	1444.1	843.0	690.0	658.0
77.5°	455.3	451.7	483.7	633.1	1248.5	3023.3	1145.3	565.5	458.8	412.6	394.8
80°	284.6	281.0	330.8	419.7	547.8	828.8	483.7	352.1	309.4	266.8	266.8
82.5°	181.4	185.0	259.7	309.4	334.3	366.4	281.0	249.0	231.2	152.9	149.4
85°	117.4	106.7	181.4	206.3	185.0	163.6	156.5	131.6	120.9	74.7	81.8
87.5°	53.4	56.9	92.5	103.1	67.6	39.1	39.1	28.5	28.5	17.8	17.8
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)