

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: P510621

Luminaire Tested: **CST-CA10-760-750-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA10-760-750-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 107040 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

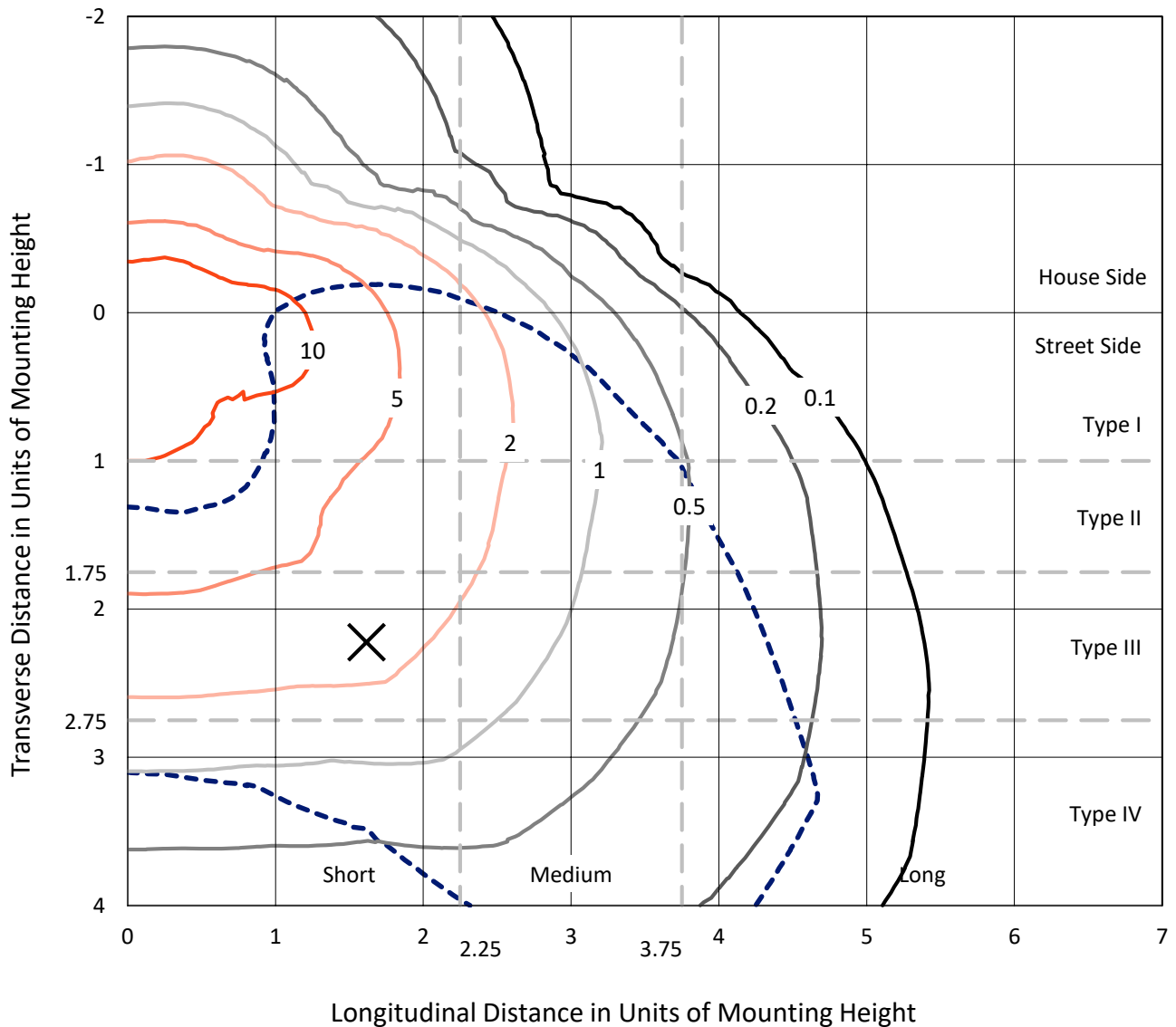
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

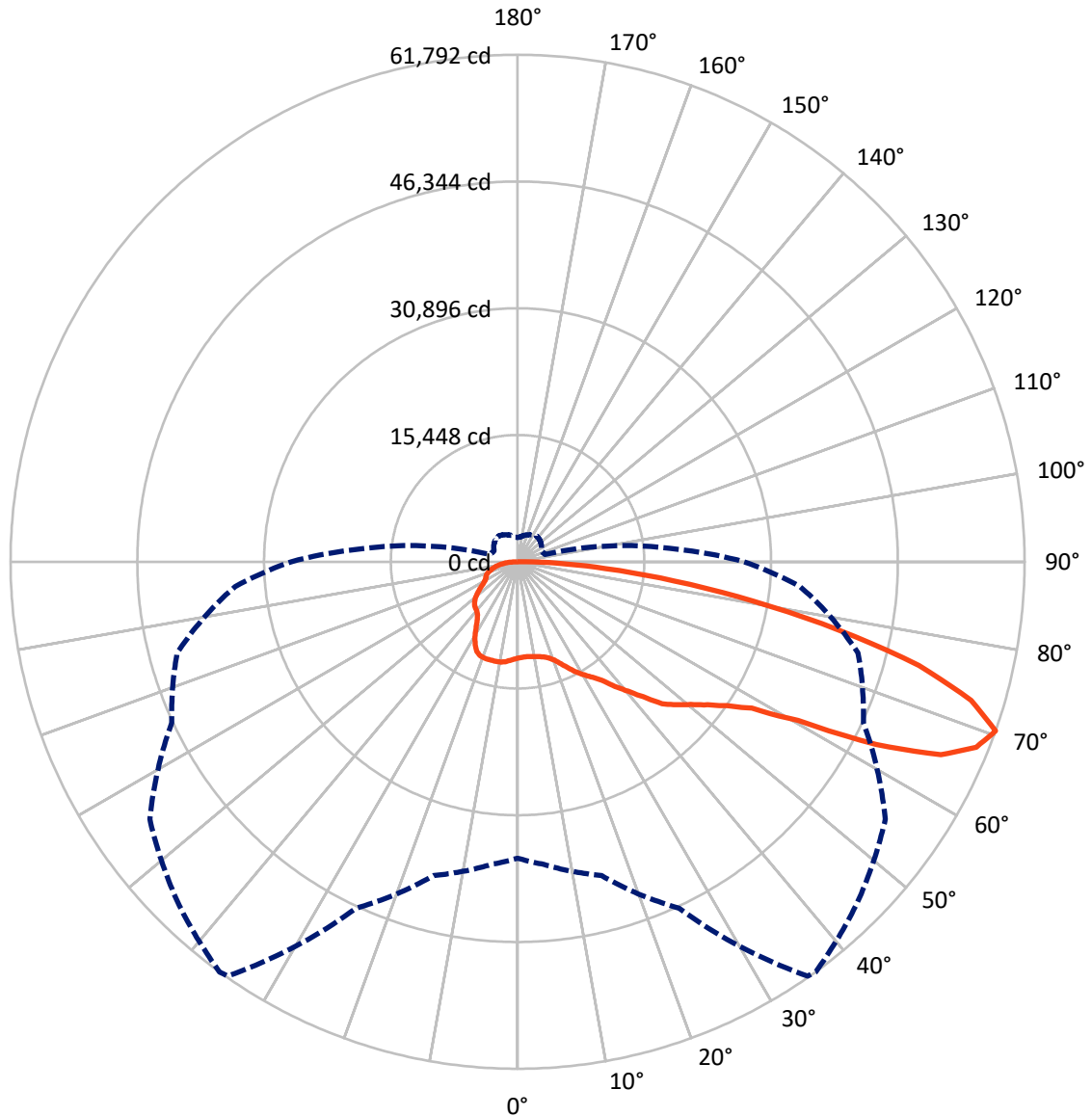
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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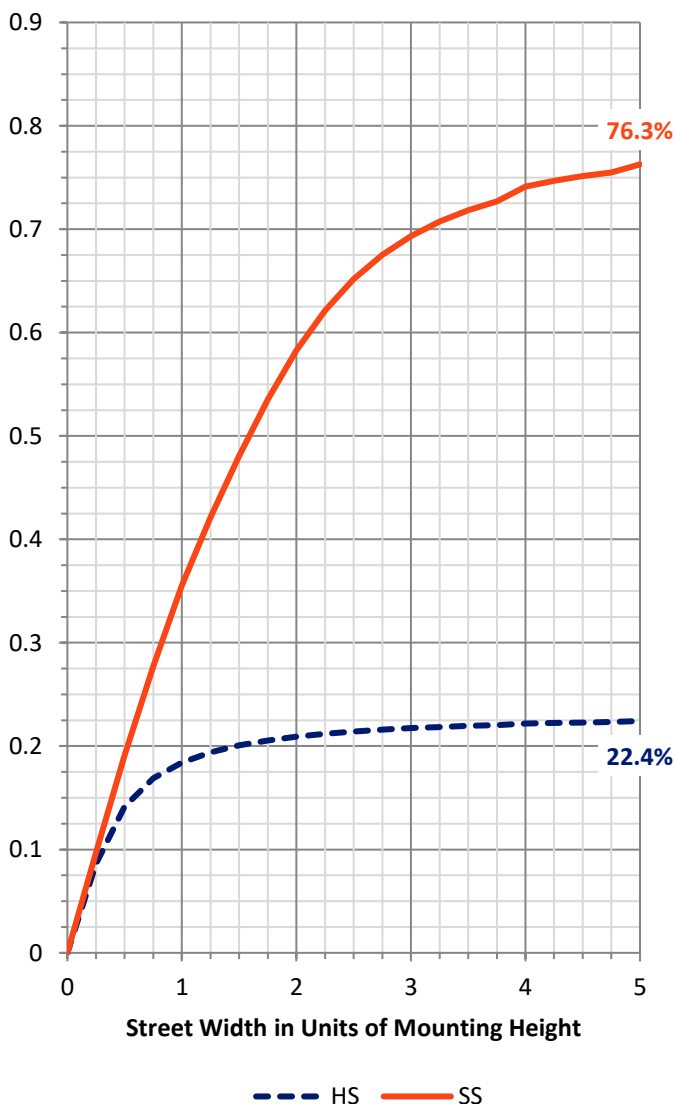
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24388.4	0.0	24388.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	82651.6	0.0	82651.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	107040.0	0.0	107040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1135.9	1.1
10°-20°	3511.4	3.3
20°-30°	6334.0	5.9
30°-40°	9810.1	9.2
40°-50°	14901.6	13.9
50°-60°	20654.5	19.3
60°-70°	26858.0	25.1
70°-80°	19834.4	18.5
80°-90°	4000.1	3.7
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°	107040.0	100.0
0°-180°	107040.0	100.0

Coefficient of Utilization

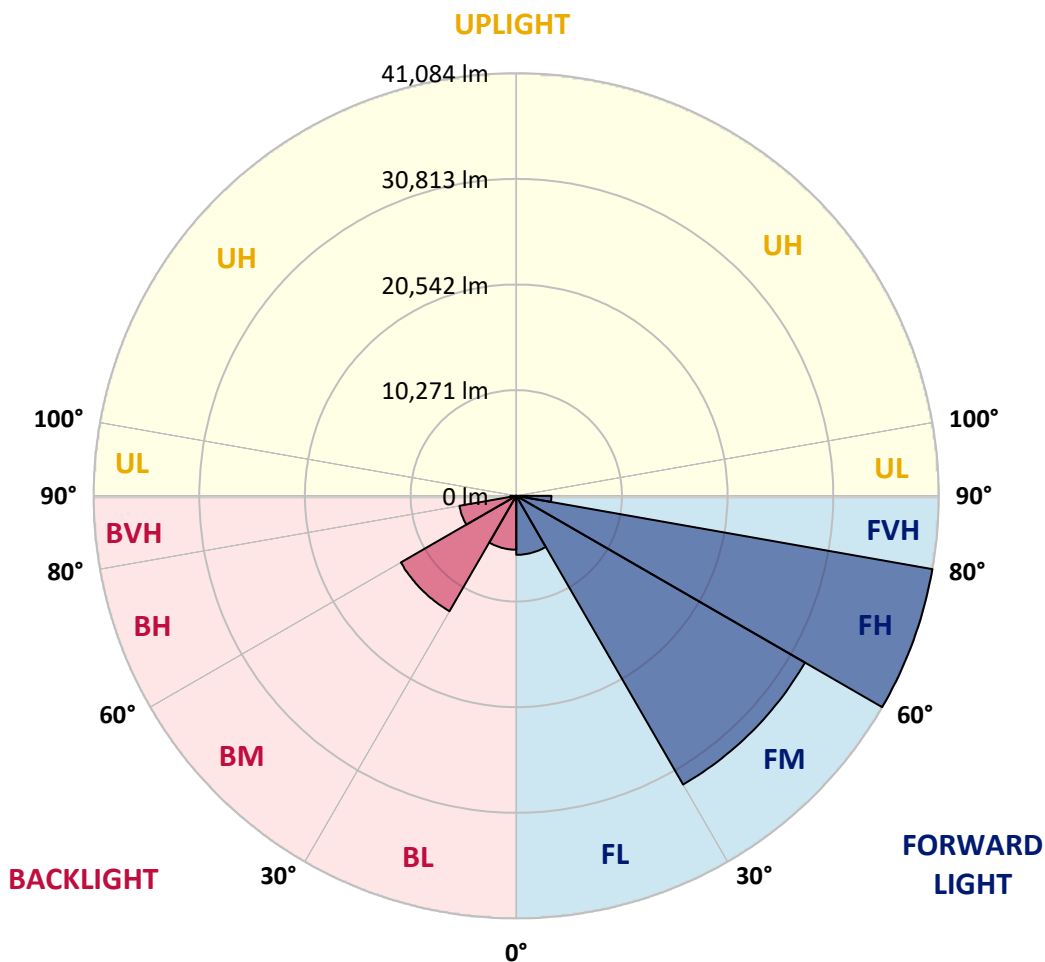


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5738.4	5.4			
FM (30°-60°)	32411.4	30.3			
FH (60°-80°)	41084.3	38.4			G5
FVH (80°-90°)	3417.4	3.2			G5
BL (0°-30°)	5242.9	4.9	B5		
BM (30°-60°)	12954.8	12.1	B5		
BH (60°-80°)	5608.0	5.2	B5		G5
BVH (80°-90°)	582.7	0.5			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1
2.5°	11653.2	11637.6	11628.8	11646.5	11653.2	11655.4	11659.8	11655.4	11644.3	11684.2	11732.9
5°	11655.4	11646.5	11628.8	11613.3	11613.3	11613.3	11615.5	11666.4	11688.6	11684.2	11744.0
7.5°	11673.1	11666.4	11633.2	11622.1	11648.7	11657.6	11701.9	11686.4	11710.8	11750.7	11801.6
10°	11675.3	11666.4	11637.6	11662.0	11737.4	11750.7	11770.6	11814.9	11823.8	11872.6	11923.5
12.5°	11697.5	11697.5	11708.6	11761.7	11841.5	11857.0	11932.4	11967.9	12021.1	12045.4	12107.5
15°	11814.9	11812.7	11839.3	11899.2	12027.7	12036.6	12129.6	12236.0	12275.9	12335.8	12435.5
17.5°	12094.2	12107.5	12109.7	12154.0	12307.0	12311.4	12464.3	12564.0	12654.9	12761.3	12989.6
20°	12756.9	12732.5	12705.9	12705.9	12765.7	12796.7	12914.2	13073.8	13259.9	13448.3	13716.5
22.5°	13590.2	13638.9	13541.4	13490.4	13519.3	13483.8	13572.4	13701.0	13918.2	14199.6	14538.7
25°	14585.3	14589.7	14583.1	14376.9	14312.7	14334.8	14408.0	14527.7	14815.8	15039.6	15531.6
27.5°	15556.0	15536.1	15465.1	15247.9	15185.9	15216.9	15214.7	15544.9	15839.7	16125.6	16704.0
30°	16438.1	16491.3	16364.9	15999.3	16005.9	16001.5	16103.4	16528.9	17067.5	17599.4	18193.4
32.5°	17993.9	17832.1	17661.5	16939.0	16806.0	16790.5	16850.3	17484.2	18282.0	19179.6	19893.2
35°	19458.9	19419.0	19250.5	18516.9	17747.9	17734.6	17652.6	18423.9	19545.3	21207.5	22098.4
37.5°	20957.1	20899.4	20733.2	20108.2	19343.6	19270.5	18581.2	19425.6	20941.5	23578.9	24848.8
40°	22743.4	22707.9	22450.8	21650.7	20866.2	20755.4	20039.5	20478.3	22703.5	26737.1	27632.5
42.5°	24310.3	24303.6	24008.9	23266.4	22599.3	22488.5	21879.0	22335.6	25152.5	29831.0	30358.5
45°	25460.5	25635.6	25648.9	25225.6	24764.6	24667.1	24505.3	25134.7	27984.8	32639.0	32561.4
47.5°	26431.2	26581.9	26424.6	26207.4	26050.0	26056.7	26307.1	27557.1	30781.8	35085.8	34483.0
50°	28053.6	27960.5	27142.7	27014.1	27213.6	27331.0	28058.0	30172.3	33984.3	37381.8	36207.2
52.5°	30393.9	30037.1	28432.5	28171.0	28926.8	28971.1	30128.0	32510.5	37184.6	39352.1	37785.2
55°	33596.4	33301.7	31488.8	30280.9	30662.1	30961.3	32590.3	34906.3	39797.6	41204.9	38999.7
57.5°	38330.4	38352.6	36874.3	34622.6	33326.1	33645.2	34917.3	37235.6	41956.2	42756.3	39757.7
60°	42124.7	42827.2	42386.2	41357.8	39496.2	39279.0	38310.5	39662.4	43800.2	44075.0	40482.4
62.5°	44755.4	45074.5	46590.4	46807.6	48935.3	49026.1	44387.5	42505.9	45825.8	44939.3	40635.3
65°	44622.4	44819.6	47215.4	50132.0	56417.4	56698.8	53983.9	46807.6	47213.2	45324.9	40189.9
67.5°	41515.2	41812.2	44857.3	50309.3	60404.5	60298.1	58576.0	52796.0	47669.8	44706.6	38066.7
70°	36118.6	37033.9	39591.5	46570.5	61650.0	61791.8	58618.1	54708.6	46492.9	42958.0	34527.3
72.5°	29768.9	30057.1	32472.8	40282.9	58008.7	57800.3	56215.7	52184.3	44365.3	39795.4	28332.8
75°	22639.2	22639.2	25564.7	32102.7	49815.1	50546.5	51162.6	47264.2	39303.3	32435.1	19292.6
77.5°	15028.5	15567.1	17923.0	24124.1	39431.9	39972.7	42100.3	40287.4	32180.2	23785.0	8811.9
80°	7971.9	8038.4	10565.0	16030.3	28204.3	29223.7	32149.2	31072.1	23146.7	11143.4	2227.4
82.5°	2788.1	3042.9	4645.3	9290.6	18583.4	19219.5	21327.2	18463.8	8175.8	2466.7	1232.2
85°	1385.2	1433.9	2045.6	4423.7	10463.0	10771.1	12459.9	7191.8	1316.5	1077.1	837.8
87.5°	667.1	682.6	784.6	1582.4	4547.8	4758.3	5037.6	2340.4	487.6	410.0	363.5
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°	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1	11724.1
2.5°	11744.0	11764.0	11801.6	11812.7	11786.1	11834.9	11881.4	11923.5	11921.3	11936.8	11992.2
5°	11770.6	11812.7	11852.6	11923.5	11992.2	12032.1	12069.8	12105.3	12116.4	12149.6	12182.8
7.5°	11852.6	11894.7	11985.6	12109.7	12114.1	12213.9	12278.1	12289.2	12298.1	12298.1	12375.7
10°	11978.9	12056.5	12202.8	12289.2	12366.8	12333.5	12400.0	12357.9	12326.9	12340.2	12393.4
12.5°	12196.1	12264.8	12475.4	12570.7	12499.8	12486.5	12420.0	12324.7	12216.1	12205.0	12253.8
15°	12537.4	12666.0	12854.4	12945.2	12767.9	12610.6	12386.7	12191.7	11981.2	11903.6	11934.6
17.5°	13087.1	13242.2	13448.3	13386.3	13062.7	12752.4	12382.3	11970.1	11562.3	11278.6	11351.7
20°	13891.6	14006.8	14175.3	13924.8	13452.8	12940.8	12333.5	11682.0	10992.7	10476.3	10416.5
22.5°	14736.0	14911.1	14809.1	14345.9	13727.6	13013.9	12231.6	11263.1	10197.1	9549.9	9452.4
25°	15753.3	15810.9	15458.5	14760.4	13805.1	12898.7	11901.4	10651.4	9383.7	8774.2	8745.4
27.5°	16832.6	16701.8	16045.8	14951.0	13718.7	12557.4	11238.7	9685.1	8647.9	8109.3	8025.1
30°	18051.5	17747.9	16531.2	14970.9	13392.9	11892.5	10401.0	8929.4	8049.5	7508.7	7422.3
32.5°	19620.6	18904.8	16981.1	14764.8	12705.9	10917.3	9394.8	8284.4	7510.9	6968.0	6890.4
35°	21626.4	20418.5	17457.6	14392.5	11859.3	9942.2	8561.5	7737.0	7074.3	6420.5	6316.4
37.5°	23937.9	22530.6	18027.1	13922.6	10930.6	9084.5	7998.5	7389.0	6750.8	6010.5	5886.4
40°	26624.1	24644.9	18904.8	13361.9	10097.3	8466.2	7725.9	7269.4	6571.2	5800.0	5658.1
42.5°	28951.1	26881.1	19948.7	12759.1	9310.6	7952.0	7604.0	7189.6	6458.2	5642.6	5480.8
45°	31103.1	28727.3	20968.1	12027.7	8481.7	7599.6	7457.8	6990.1	6258.7	5447.6	5279.2
47.5°	32851.8	30218.8	21854.6	11356.2	7819.0	7276.0	7138.6	6611.1	5924.1	5212.7	5088.6
50°	34194.8	31340.3	22340.0	10822.0	7118.7	6908.1	6726.4	6183.4	5522.9	4909.0	4802.7
52.5°	35568.9	32463.9	22579.4	10848.6	6467.1	6360.7	6174.5	5709.1	5203.8	4731.7	4616.5
55°	36369.0	32924.9	22326.7	10203.7	5868.7	5744.6	5582.8	5341.2	5039.8	4620.9	4512.3
57.5°	36836.6	33210.8	21557.7	8322.1	5148.4	5030.9	5057.5	5037.6	4789.4	4348.3	4248.6
60°	37173.5	32590.3	19981.9	6116.9	4534.5	4445.8	4665.2	4594.3	4379.4	4035.8	3951.6
62.5°	36900.9	31409.0	17145.1	4598.8	4033.6	4222.0	4414.8	4284.1	3991.5	3679.0	3581.5
65°	35238.7	29090.8	13031.7	3694.5	3871.8	4131.1	4286.3	4075.7	3778.7	3408.6	3364.3
67.5°	32213.5	24888.7	7686.0	3386.5	3749.9	4024.7	4153.3	3874.0	3612.5	3257.9	3204.7
70°	27597.0	18632.2	3433.0	3153.8	3537.2	3809.8	3894.0	3630.3	3346.6	3014.1	2960.9
72.5°	20540.4	11234.3	2313.8	2912.2	3222.5	3464.0	3557.1	3277.9	3076.2	2925.5	2910.0
75°	11407.1	3900.6	2134.3	2637.4	2878.9	3096.1	3211.4	3014.1	2854.6	2648.4	2564.2
77.5°	3632.5	1657.8	2027.9	2358.1	2664.0	2843.5	2825.7	2528.8	2477.8	2227.4	2205.2
80°	1449.4	1445.0	1875.0	1930.4	2273.9	2424.6	2384.7	2010.2	2076.6	1930.4	1872.7
82.5°	1136.9	1323.1	1502.6	1473.8	1768.6	1945.9	1890.5	1476.0	1668.9	1533.7	1402.9
85°	864.3	1159.1	964.1	959.6	1234.5	1445.0	1480.5	1134.7	1136.9	1035.0	922.0
87.5°	445.5	427.7	370.1	367.9	412.2	587.3	720.3	644.9	509.7	383.4	367.9
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)