

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: P510611

Luminaire Tested: **CST-CA10-760-740-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510611
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-CA10-760-740-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 105112 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

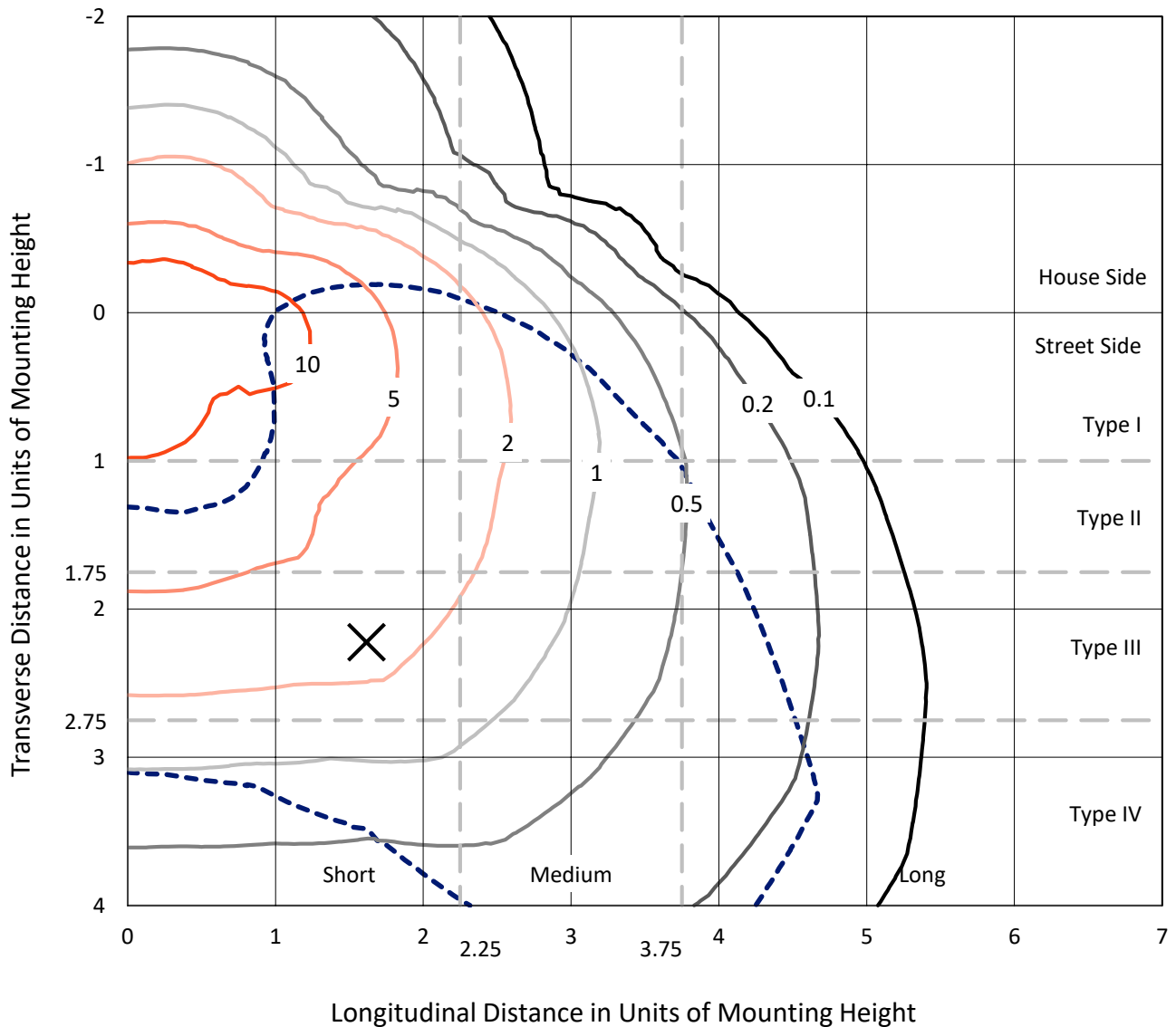
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

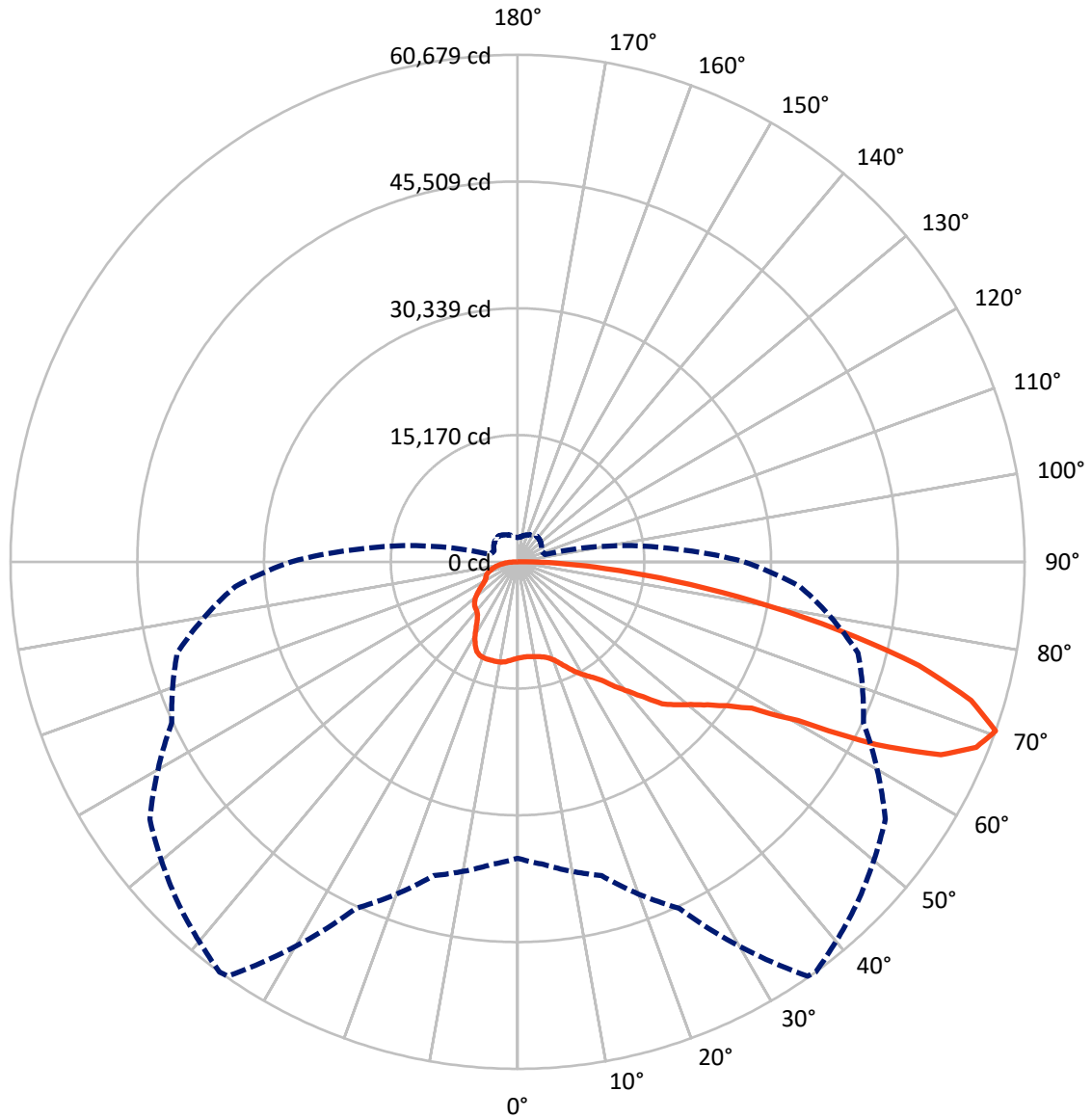
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 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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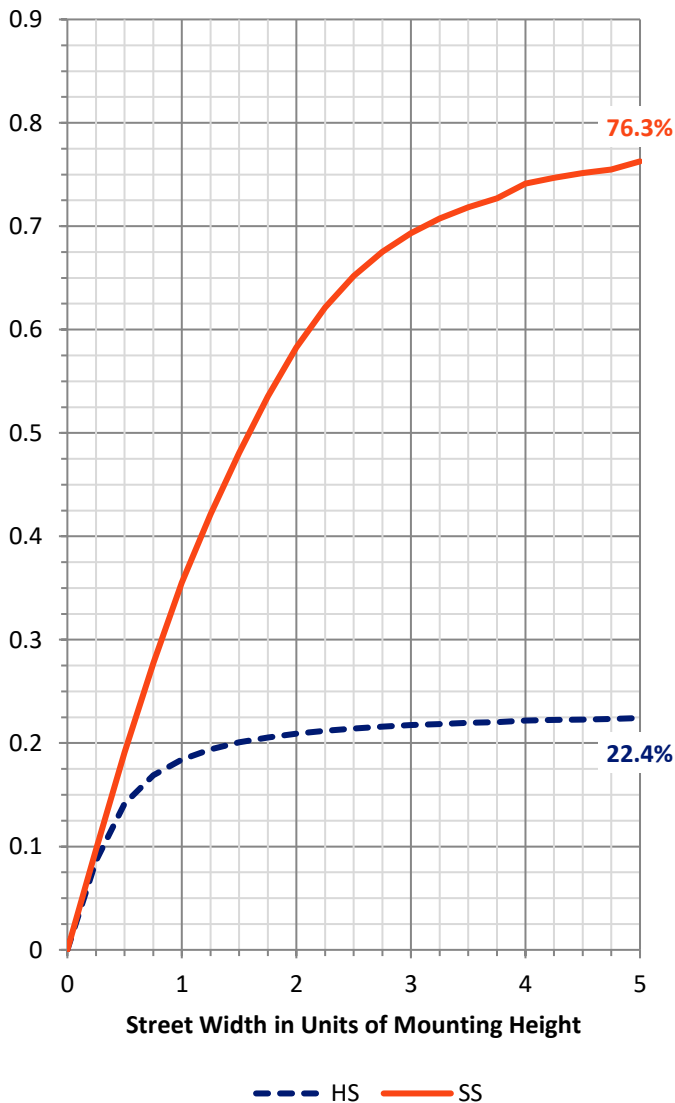
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23949.1	0.0	23949.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	81162.9	0.0	81162.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	105112.0	0.0	105112.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1115.4	1.1
10°-20°	3448.2	3.3
20°-30°	6219.9	5.9
30°-40°	9633.4	9.2
40°-50°	14633.2	13.9
50°-60°	20282.5	19.3
60°-70°	26374.2	25.1
70°-80°	19477.1	18.5
80°-90°	3928.1	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°	105112.0	100.0
0°-180°	105112.0	100.0

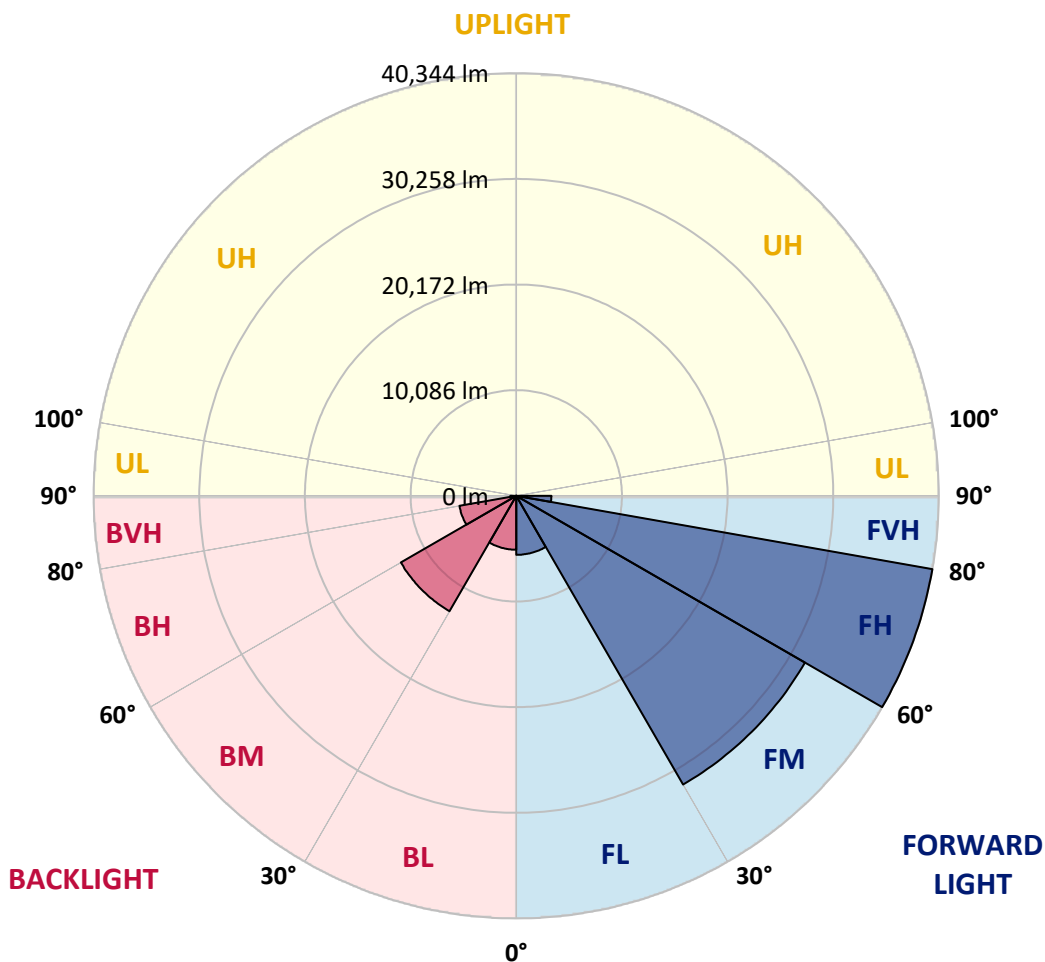


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5635.1	5.4			
FM (30°-60°)	31827.6	30.3			
FH (60°-80°)	40344.3	38.4			G5
FVH (80°-90°)	3355.9	3.2			G5
BL (0°-30°)	5148.4	4.9	B5		
BM (30°-60°)	12721.5	12.1	B5		
BH (60°-80°)	5507.0	5.2	B5		G5
BVH (80°-90°)	572.2	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°	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9
2.5°	11443.3	11428.0	11419.3	11436.7	11443.3	11445.4	11449.8	11445.4	11434.5	11473.7	11521.6
5°	11445.4	11436.7	11419.3	11404.1	11404.1	11404.1	11406.3	11456.3	11478.1	11473.7	11532.5
7.5°	11462.8	11456.3	11423.7	11412.8	11438.9	11447.6	11491.1	11475.9	11499.8	11539.0	11589.1
10°	11465.0	11456.3	11428.0	11452.0	11526.0	11539.0	11558.6	11602.1	11610.8	11658.7	11708.8
12.5°	11486.8	11486.8	11497.7	11549.9	11628.2	11643.5	11717.5	11752.3	11804.5	11828.5	11889.4
15°	11602.1	11600.0	11626.1	11684.8	11811.1	11819.8	11911.2	12015.6	12054.8	12113.6	12211.5
17.5°	11876.3	11889.4	11891.6	11935.1	12085.3	12089.6	12239.8	12337.7	12427.0	12531.4	12755.6
20°	12527.1	12503.1	12477.0	12477.0	12535.8	12566.3	12681.6	12838.3	13021.1	13206.1	13469.4
22.5°	13345.4	13393.3	13297.5	13247.4	13275.7	13240.9	13328.0	13454.2	13667.5	13943.9	14276.9
25°	14322.6	14326.9	14320.4	14118.0	14054.9	14076.6	14148.5	14266.0	14548.9	14768.7	15251.9
27.5°	15275.8	15256.2	15186.6	14973.3	14912.4	14942.8	14940.7	15264.9	15554.4	15835.1	16403.2
30°	16142.0	16194.2	16070.2	15711.1	15717.6	15713.3	15813.4	16231.2	16760.1	17282.4	17865.7
32.5°	17669.8	17510.9	17343.3	16633.9	16503.3	16488.0	16546.8	17169.2	17952.7	18834.1	19534.9
35°	19108.4	19069.2	18903.8	18183.4	17428.2	17415.2	17334.6	18092.0	19193.2	20825.5	21700.4
37.5°	20579.6	20523.0	20359.8	19746.0	18995.2	18923.4	18246.5	19075.7	20564.3	23154.2	24401.2
40°	22333.7	22298.9	22046.4	21260.8	20490.3	20381.5	19678.6	20109.5	22294.5	26255.5	27134.7
42.5°	23872.4	23865.9	23576.4	22847.3	22192.3	22083.4	21484.9	21933.3	24699.4	29293.7	29811.7
45°	25001.9	25173.9	25186.9	24771.2	24318.5	24222.8	24063.9	24682.0	27480.8	32051.1	31975.0
47.5°	25955.2	26103.2	25948.6	25735.4	25580.8	25587.4	25833.3	27060.8	30227.3	34453.8	33861.8
50°	27548.3	27456.8	26653.8	26527.5	26723.4	26838.8	27552.6	29628.8	33372.2	36708.5	35555.0
52.5°	29846.5	29496.1	27920.4	27663.6	28405.7	28449.3	29585.3	31924.9	36514.8	38643.3	37104.6
55°	32991.3	32701.9	30921.6	29735.5	30109.8	30403.6	32003.2	34277.5	39080.7	40462.7	38297.3
57.5°	37640.0	37661.8	36210.1	33999.0	32725.8	33039.2	34288.4	36564.9	41200.5	41986.2	39041.6
60°	41365.9	42055.8	41622.7	40612.9	38784.8	38571.5	37620.4	38948.0	43011.2	43281.1	39753.2
62.5°	43949.2	44262.6	45751.3	45964.5	48053.8	48143.1	43588.0	41740.2	45000.4	44129.9	39903.4
65°	43818.7	44012.4	46365.0	49229.1	55401.2	55677.6	53011.6	45964.5	46362.8	44508.6	39466.0
67.5°	40767.4	41059.0	44049.3	49403.2	59316.5	59212.0	57521.0	51845.0	46811.1	43901.4	37381.0
70°	35468.0	36366.8	38878.3	45731.7	60539.6	60678.8	57562.3	53723.2	45655.5	42184.2	33905.4
72.5°	29232.7	29515.7	31887.9	39557.4	56963.8	56759.2	55203.1	51244.4	43566.2	39078.6	27822.5
75°	22231.4	22231.4	25104.2	31524.4	48917.8	49636.0	50241.1	46412.9	38595.4	31850.9	18945.1
77.5°	14757.8	15286.7	17600.2	23689.6	38721.6	39252.7	41342.0	39561.7	31600.6	23356.6	8653.2
80°	7828.3	7893.6	10374.7	15741.5	27696.2	28697.4	31570.2	30512.4	22729.8	10942.7	2187.2
82.5°	2737.8	2988.1	4561.6	9123.3	18248.7	18873.3	20943.0	18131.2	8028.6	2422.3	1210.1
85°	1360.2	1408.1	2008.8	4344.0	10274.6	10577.1	12235.4	7062.3	1292.8	1057.7	822.7
87.5°	655.1	670.3	770.4	1553.9	4465.9	4672.6	4946.8	2298.2	478.8	402.6	356.9
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°	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9	11512.9
2.5°	11532.5	11552.1	11589.1	11600.0	11573.8	11621.7	11667.4	11708.8	11706.6	11721.8	11776.2
5°	11558.6	11600.0	11639.1	11708.8	11776.2	11815.4	11852.4	11887.2	11898.1	11930.8	11963.4
7.5°	11639.1	11680.5	11769.7	11891.6	11895.9	11993.9	12057.0	12067.9	12076.6	12076.6	12152.7
10°	11763.2	11839.4	11983.0	12067.9	12144.0	12111.4	12176.7	12135.3	12104.9	12117.9	12170.2
12.5°	11976.5	12043.9	12250.7	12344.3	12274.6	12261.6	12196.3	12102.7	11996.0	11985.2	12033.0
15°	12311.6	12437.8	12622.8	12712.1	12538.0	12383.4	12163.6	11972.1	11765.4	11689.2	11719.7
17.5°	12851.4	13003.7	13206.1	13145.2	12827.4	12522.7	12159.3	11754.5	11354.0	11075.5	11147.3
20°	13641.4	13754.5	13919.9	13674.0	13210.5	12707.7	12111.4	11471.5	10794.7	10287.6	10228.9
22.5°	14470.6	14642.5	14542.4	14087.5	13480.3	12779.5	12011.3	11060.2	10013.4	9377.9	9282.1
25°	15469.5	15526.1	15180.0	14494.5	13556.5	12666.4	11687.0	10459.5	9214.7	8616.2	8587.9
27.5°	16529.4	16401.0	15756.8	14681.7	13471.6	12331.2	11036.3	9510.7	8492.1	7963.3	7880.6
30°	17726.4	17428.2	16233.4	14701.3	13151.7	11678.3	10213.6	8768.5	7904.5	7373.5	7288.6
32.5°	19267.2	18564.3	16675.2	14498.9	12477.0	10720.7	9225.6	8135.2	7375.7	6842.4	6766.3
35°	21236.8	20050.7	17143.1	14133.2	11645.7	9763.1	8407.2	7597.6	6946.9	6304.9	6202.6
37.5°	23506.8	22124.8	17702.4	13671.8	10733.8	8920.9	7854.5	7256.0	6629.2	5902.3	5780.4
40°	26144.5	24201.0	18564.3	13121.2	9915.5	8313.7	7586.8	7138.4	6452.9	5695.5	5556.2
42.5°	28429.7	26397.0	19589.3	12529.3	9142.9	7808.7	7467.1	7060.1	6341.9	5541.0	5382.1
45°	30542.9	28209.9	20590.5	11811.1	8328.9	7462.7	7323.4	6864.2	6146.0	5349.5	5184.1
47.5°	32260.1	29674.5	21461.0	11151.6	7678.2	7145.0	7010.0	6492.1	5817.4	5118.8	4996.9
50°	33578.9	30775.8	21937.6	10627.1	6990.4	6783.7	6605.2	6072.0	5423.5	4820.6	4716.2
52.5°	34928.3	31879.2	22172.7	10653.2	6350.6	6246.1	6063.3	5606.3	5110.1	4646.5	4533.3
55°	35713.9	32331.9	21924.6	10019.9	5763.0	5641.1	5482.2	5245.0	4949.0	4537.7	4431.1
57.5°	36173.1	32612.6	21169.4	8172.2	5055.7	4940.3	4966.4	4946.8	4703.1	4270.0	4172.1
60°	36503.9	32003.2	19622.0	6006.7	4452.8	4365.8	4581.2	4511.6	4300.5	3963.1	3880.4
62.5°	36236.2	30843.2	16836.3	4515.9	3961.0	4145.9	4335.3	4206.9	3919.6	3612.7	3517.0
65°	34604.0	28566.8	12796.9	3628.0	3802.1	4056.7	4209.1	4002.3	3710.7	3347.2	3303.7
67.5°	31633.3	24440.4	7547.6	3325.5	3682.4	3952.3	4078.5	3804.3	3547.5	3199.2	3147.0
70°	27099.9	18296.6	3371.2	3096.9	3473.5	3741.1	3823.8	3564.9	3286.3	2959.8	2907.6
72.5°	20170.4	11031.9	2272.1	2859.7	3164.4	3401.6	3493.0	3218.8	3020.8	2872.8	2857.5
75°	11201.7	3830.4	2095.8	2589.9	2827.1	3040.4	3153.5	2959.8	2803.1	2600.7	2518.0
77.5°	3567.0	1627.9	1991.4	2315.6	2616.0	2792.3	2774.8	2483.2	2433.2	2187.2	2165.5
80°	1423.3	1419.0	1841.2	1895.6	2232.9	2380.9	2341.8	1974.0	2039.2	1895.6	1839.0
82.5°	1116.5	1299.3	1475.6	1447.3	1736.7	1910.8	1856.4	1449.4	1638.8	1506.0	1377.6
85°	848.8	1138.2	946.7	942.4	1212.2	1419.0	1453.8	1114.3	1116.5	1016.4	905.4
87.5°	437.4	420.0	363.5	361.3	404.8	576.7	707.3	633.3	500.6	376.5	361.3
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)