

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: P510631

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510631
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-CA10-760-760-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 104771 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

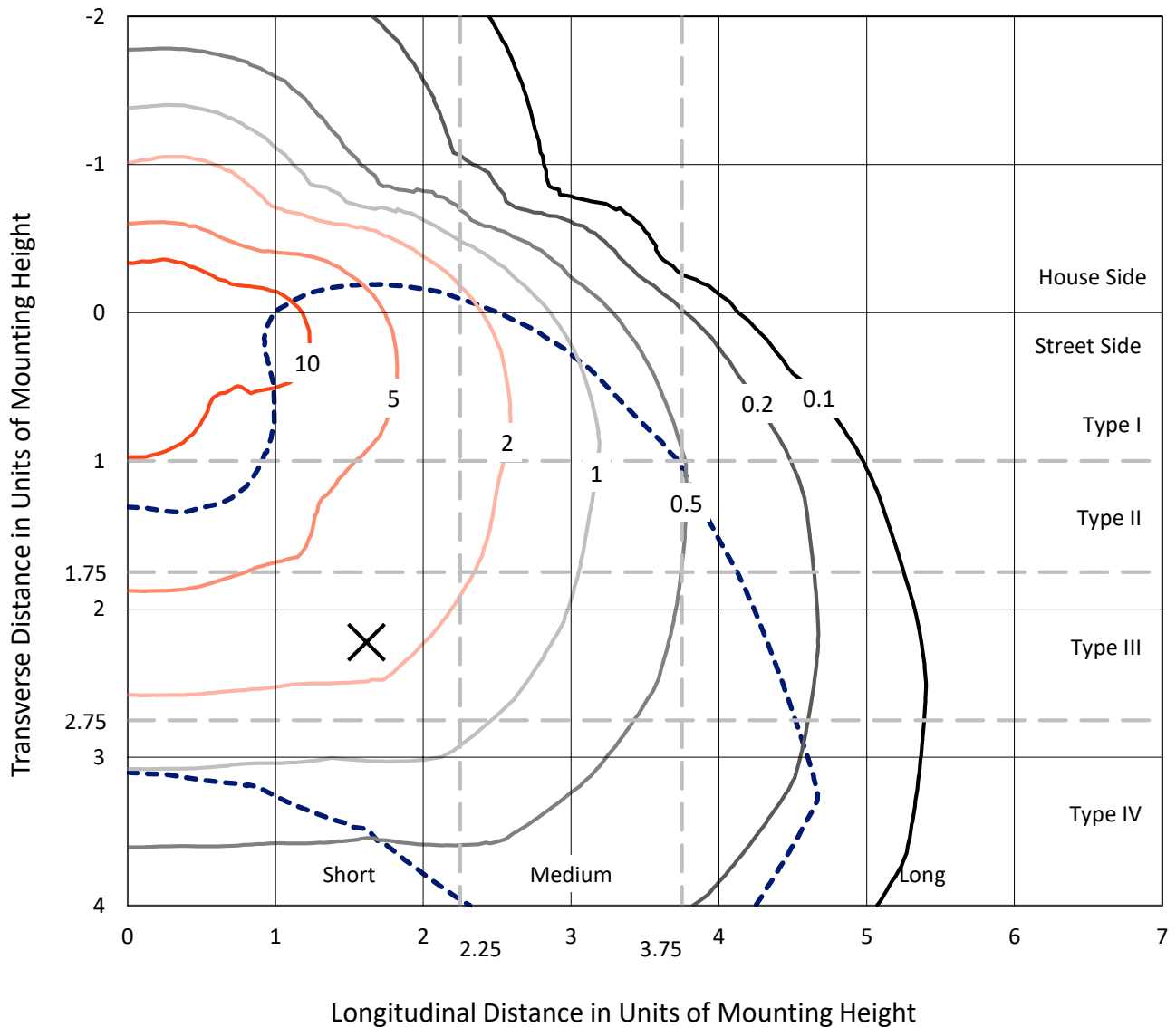
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

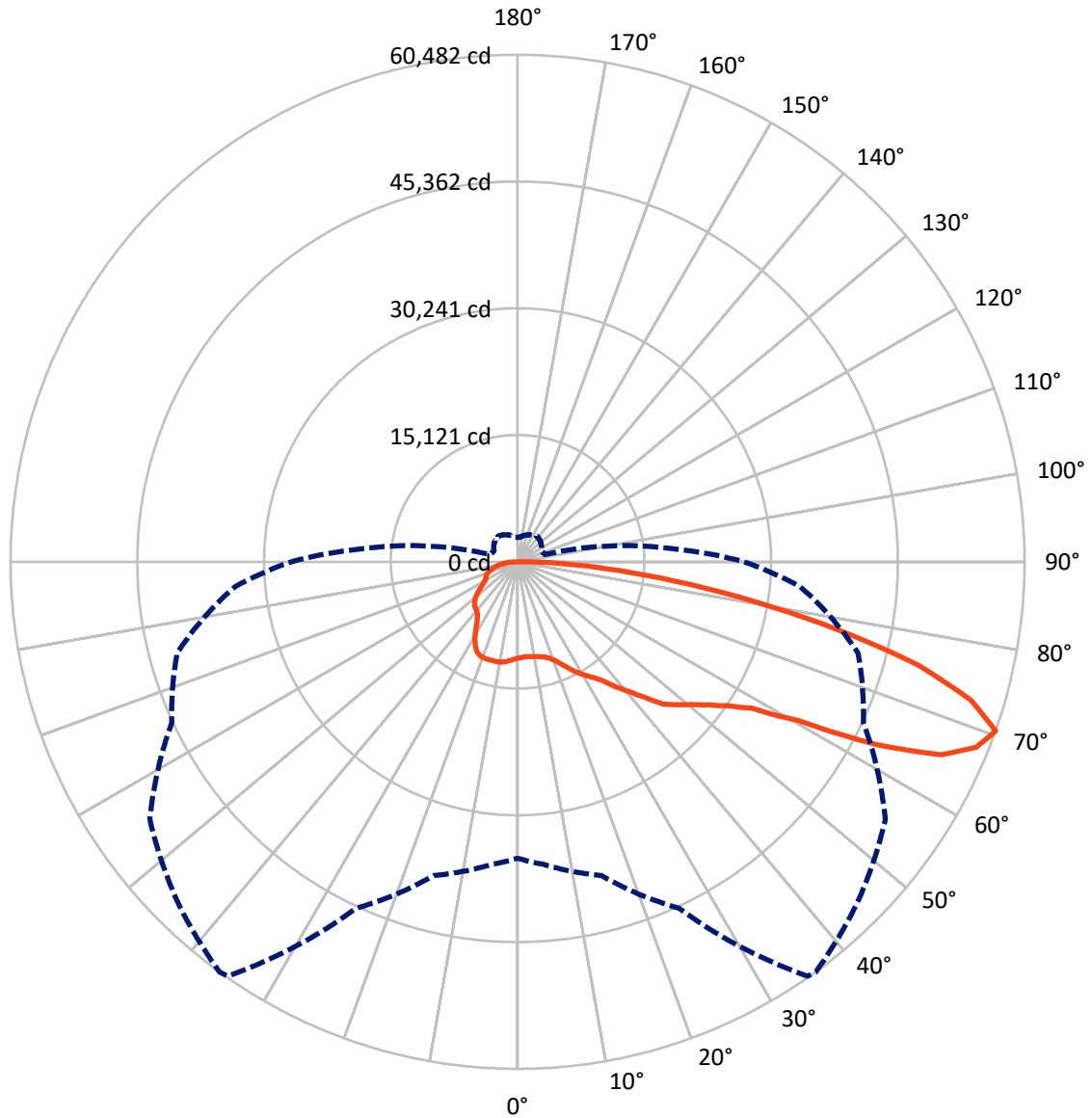
× Max cd
 - - - 1/2 Max cd



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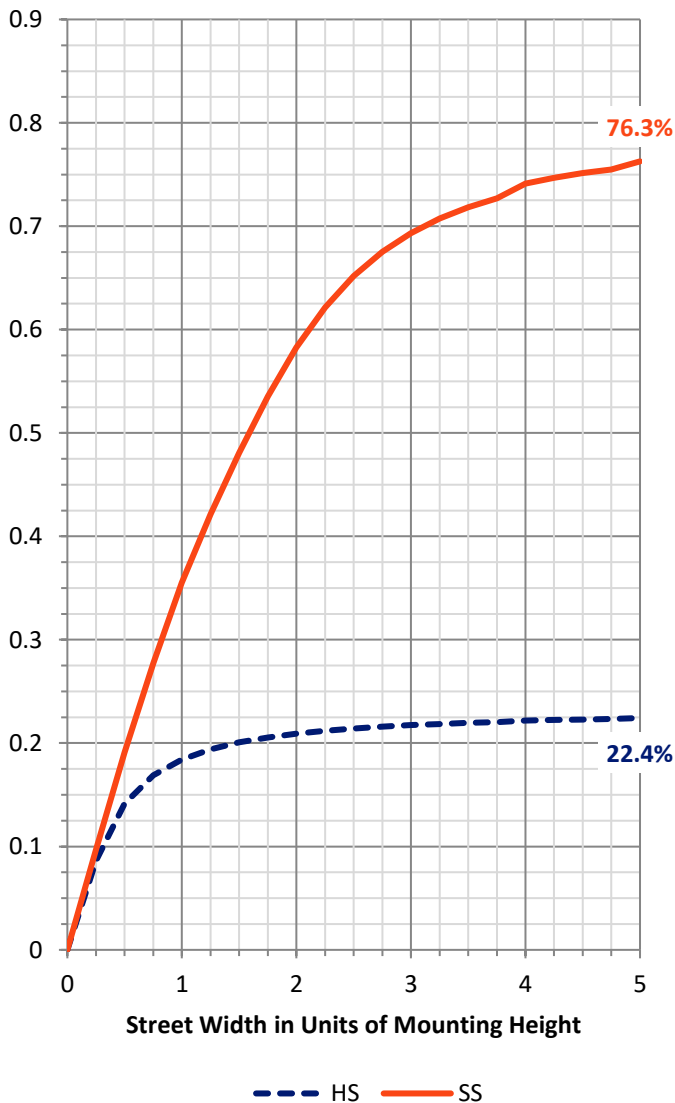
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23871.4	0.0	23871.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	80899.6	0.0	80899.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	104771.0	0.0	104771.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1111.8	1.1
10°-20°	3437.0	3.3
20°-30°	6199.7	5.9
30°-40°	9602.2	9.2
40°-50°	14585.7	13.9
50°-60°	20216.7	19.3
60°-70°	26288.7	25.1
70°-80°	19413.9	18.5
80°-90°	3915.3	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°	104771.0	100.0
0°-180°	104771.0	100.0

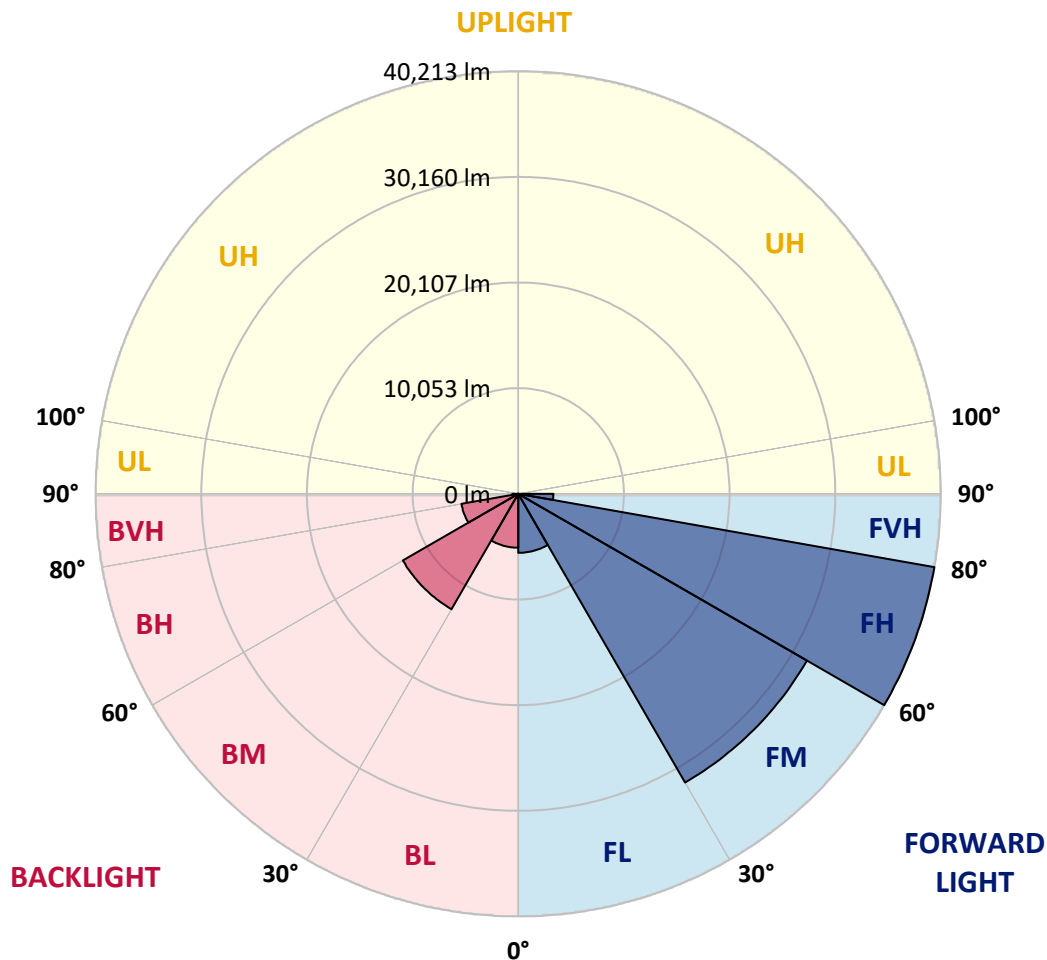


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5616.8	5.4			
FM (30°-60°)	31724.4	30.3			
FH (60°-80°)	40213.4	38.4			G5
FVH (80°-90°)	3345.0	3.2			G5
BL (0°-30°)	5131.7	4.9	B5		
BM (30°-60°)	12680.2	12.1	B5		
BH (60°-80°)	5489.1	5.2	B5		G5
BVH (80°-90°)	570.4	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°	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5
2.5°	11406.1	11390.9	11382.3	11399.6	11406.1	11408.3	11412.6	11408.3	11397.5	11436.5	11484.2
5°	11408.3	11399.6	11382.3	11367.1	11367.1	11367.1	11369.3	11419.1	11440.8	11436.5	11495.1
7.5°	11425.7	11419.1	11386.6	11375.8	11401.8	11410.5	11453.9	11438.7	11462.5	11501.6	11551.5
10°	11427.8	11419.1	11390.9	11414.8	11488.6	11501.6	11521.1	11564.5	11573.2	11620.9	11670.8
12.5°	11449.5	11449.5	11460.4	11512.4	11590.5	11605.7	11679.5	11714.2	11766.2	11790.1	11850.8
15°	11564.5	11562.3	11588.4	11646.9	11772.7	11781.4	11872.5	11976.7	12015.7	12074.3	12171.9
17.5°	11837.8	11850.8	11853.0	11896.4	12046.1	12050.4	12200.1	12297.7	12386.7	12490.8	12714.2
20°	12486.4	12462.6	12436.5	12436.5	12495.1	12525.5	12640.5	12796.6	12978.9	13163.3	13425.7
22.5°	13302.1	13349.8	13254.4	13204.5	13232.7	13198.0	13284.7	13410.6	13623.1	13898.6	14230.5
25°	14276.1	14280.4	14273.9	14072.2	14009.3	14031.0	14102.6	14219.7	14501.7	14720.8	15202.4
27.5°	15226.3	15206.7	15137.3	14924.7	14864.0	14894.4	14892.2	15215.4	15503.9	15783.8	16349.9
30°	16089.6	16141.7	16018.0	15660.1	15666.6	15662.3	15762.1	16178.6	16705.7	17226.3	17807.7
32.5°	17612.5	17454.1	17287.1	16579.9	16449.7	16434.5	16493.1	17113.5	17894.5	18773.0	19471.6
35°	19046.4	19007.3	18842.5	18124.4	17371.7	17358.7	17278.4	18033.3	19131.0	20757.9	21630.0
37.5°	20512.8	20456.4	20293.7	19682.0	18933.6	18862.0	18187.3	19013.8	20497.6	23079.1	24322.1
40°	22261.3	22226.6	21974.9	21191.8	20423.9	20315.4	19614.7	20044.2	22222.2	26170.3	27046.7
42.5°	23795.0	23788.4	23499.9	22773.2	22120.3	22011.8	21415.2	21862.1	24619.3	29198.7	29714.9
45°	24920.8	25092.2	25105.2	24690.9	24239.7	24144.2	23985.8	24601.9	27391.6	31947.1	31871.2
47.5°	25871.0	26018.5	25864.5	25651.9	25497.8	25504.4	25749.5	26973.0	30129.3	34342.0	33752.0
50°	27458.9	27367.8	26567.3	26441.5	26636.7	26751.7	27463.2	29532.7	33263.9	36589.4	35439.7
52.5°	29749.7	29400.4	27829.8	27573.9	28313.6	28357.0	29489.3	31821.3	36396.4	38517.9	36984.2
55°	32884.3	32595.8	30821.3	29639.0	30012.1	30305.0	31899.4	34166.3	38954.0	40331.5	38173.0
57.5°	37517.9	37539.6	36092.7	33888.7	32619.6	32932.0	34177.2	36446.3	41066.8	41850.0	38914.9
60°	41231.7	41919.4	41487.7	40481.1	38658.9	38446.3	37498.4	38821.6	42871.7	43140.7	39624.3
62.5°	43806.7	44119.0	45602.8	45815.4	47897.9	47986.9	43446.6	41604.8	44854.4	43986.7	39773.9
65°	43676.5	43869.6	46214.6	49069.4	55221.5	55497.0	52839.6	45815.4	46212.4	44364.2	39337.9
67.5°	40635.2	40925.8	43906.4	49242.9	59124.0	59019.9	57334.4	51676.8	46659.3	43758.9	37259.7
70°	35352.9	36248.8	38752.2	45583.3	60343.2	60482.0	57375.6	53548.9	45507.4	42047.4	33795.4
72.5°	29137.9	29419.9	31784.4	39429.0	56779.0	56575.1	55024.1	51078.1	43424.9	38951.8	27732.2
75°	22159.3	22159.3	25022.8	31422.2	48759.1	49475.0	50078.1	46262.3	38470.2	31747.6	18883.7
77.5°	14710.0	15237.1	17543.1	23612.7	38596.0	39125.3	41207.8	39433.4	31498.1	23280.8	8625.1
80°	7802.9	7868.0	10341.0	15690.5	27606.4	28604.3	31467.7	30413.5	22656.1	10907.2	2180.1
82.5°	2729.0	2978.4	4546.8	9093.7	18189.5	18812.1	20875.1	18072.4	8002.5	2414.4	1206.1
85°	1355.8	1403.5	2002.3	4329.9	10241.2	10542.8	12195.8	7039.3	1288.6	1054.3	820.0
87.5°	653.0	668.1	767.9	1548.9	4451.4	4657.5	4930.8	2290.8	477.2	401.3	355.8
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°	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5	11475.5
2.5°	11495.1	11514.6	11551.5	11562.3	11536.3	11584.0	11629.6	11670.8	11668.6	11683.8	11738.0
5°	11521.1	11562.3	11601.4	11670.8	11738.0	11777.1	11814.0	11848.7	11859.5	11892.1	11924.6
7.5°	11601.4	11642.6	11731.5	11853.0	11857.3	11955.0	12017.9	12028.7	12037.4	12037.4	12113.3
10°	11725.0	11800.9	11944.1	12028.7	12104.6	12072.1	12137.2	12096.0	12065.6	12078.6	12130.7
12.5°	11937.6	12004.9	12210.9	12304.2	12234.8	12221.8	12156.7	12063.4	11957.1	11946.3	11994.0
15°	12271.7	12397.5	12581.9	12670.8	12497.3	12343.3	12124.2	11933.3	11727.2	11651.3	11681.6
17.5°	12809.7	12961.5	13163.3	13102.5	12785.8	12482.1	12119.8	11716.3	11317.2	11039.5	11111.1
20°	13597.1	13709.9	13874.8	13629.7	13167.6	12666.5	12072.1	11434.3	10759.7	10254.2	10195.7
22.5°	14423.6	14595.0	14495.2	14041.8	13436.6	12738.1	11972.3	11024.3	9980.9	9347.5	9252.0
25°	15419.3	15475.7	15130.8	14447.5	13512.5	12625.3	11649.1	10425.6	9184.8	8588.2	8560.0
27.5°	16475.8	16347.8	15705.7	14634.0	13427.9	12291.2	11000.5	9479.8	8464.6	7937.4	7855.0
30°	17668.9	17371.7	16180.7	14653.6	13109.0	11640.4	10180.5	8740.1	7878.9	7349.6	7265.0
32.5°	19204.7	18504.1	16621.1	14451.8	12436.5	10685.9	9195.6	8108.8	7351.7	6820.3	6744.3
35°	21167.9	19985.7	17087.5	14087.4	11607.9	9731.4	8380.0	7573.0	6924.4	6284.4	6182.5
37.5°	23430.5	22053.0	17645.0	13627.5	10698.9	8891.9	7829.0	7232.4	6607.7	5883.1	5761.6
40°	26059.7	24122.5	18504.1	13078.7	9883.3	8286.7	7562.1	7115.3	6431.9	5677.0	5538.2
42.5°	28337.4	26311.3	19525.8	12488.6	9113.2	7783.4	7442.8	7037.2	6321.3	5523.0	5364.7
45°	30443.8	28118.3	20523.7	11772.7	8301.9	7438.5	7299.7	6841.9	6126.1	5332.1	5167.3
47.5°	32155.4	29578.3	21391.4	11115.4	7653.3	7121.8	6987.3	6471.0	5798.5	5102.2	4980.7
50°	33470.0	30675.9	21866.5	10592.6	6967.8	6761.7	6583.8	6052.3	5405.9	4805.0	4700.9
52.5°	34814.9	31775.8	22100.7	10618.7	6330.0	6225.9	6043.6	5588.1	5093.5	4631.4	4518.6
55°	35598.1	32227.0	21853.4	9987.4	5744.3	5622.8	5464.4	5228.0	4933.0	4523.0	4416.7
57.5°	36055.8	32506.8	21100.7	8145.7	5039.3	4924.3	4950.3	4930.8	4687.8	4256.1	4158.5
60°	36385.5	31899.4	19558.3	5987.2	4438.4	4351.6	4566.4	4496.9	4286.5	3950.3	3867.8
62.5°	36118.7	30743.2	16781.6	4501.3	3948.1	4132.5	4321.2	4193.2	3906.9	3601.0	3505.6
65°	34491.7	28474.1	12755.4	3616.2	3789.8	4043.6	4195.4	3989.3	3698.6	3336.4	3293.0
67.5°	31530.6	24361.1	7523.1	3314.7	3670.4	3939.4	4065.3	3791.9	3535.9	3188.9	3136.8
70°	27012.0	18237.2	3360.2	3086.9	3462.2	3729.0	3811.4	3553.3	3275.6	2950.2	2898.2
72.5°	20105.0	10996.1	2264.7	2850.4	3154.1	3390.6	3481.7	3208.4	3011.0	2863.5	2848.3
75°	11165.3	3818.0	2089.0	2581.5	2817.9	3030.5	3143.3	2950.2	2794.0	2592.3	2509.9
77.5°	3555.5	1622.6	1984.9	2308.1	2607.5	2783.2	2765.8	2475.2	2425.3	2180.1	2158.4
80°	1418.7	1414.4	1835.2	1889.5	2225.7	2373.2	2334.2	1967.5	2032.6	1889.5	1833.1
82.5°	1112.8	1295.1	1470.8	1442.6	1731.1	1904.6	1850.4	1444.7	1633.5	1501.1	1373.2
85°	846.0	1134.5	943.6	939.3	1208.3	1414.4	1449.1	1110.7	1112.8	1013.1	902.4
87.5°	436.0	418.7	362.3	360.1	403.5	574.9	705.0	631.3	498.9	375.3	360.1
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)