

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: P510691

Luminaire Tested: **CST-CA6-230-760-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510691
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-CA6-230-760-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33886 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

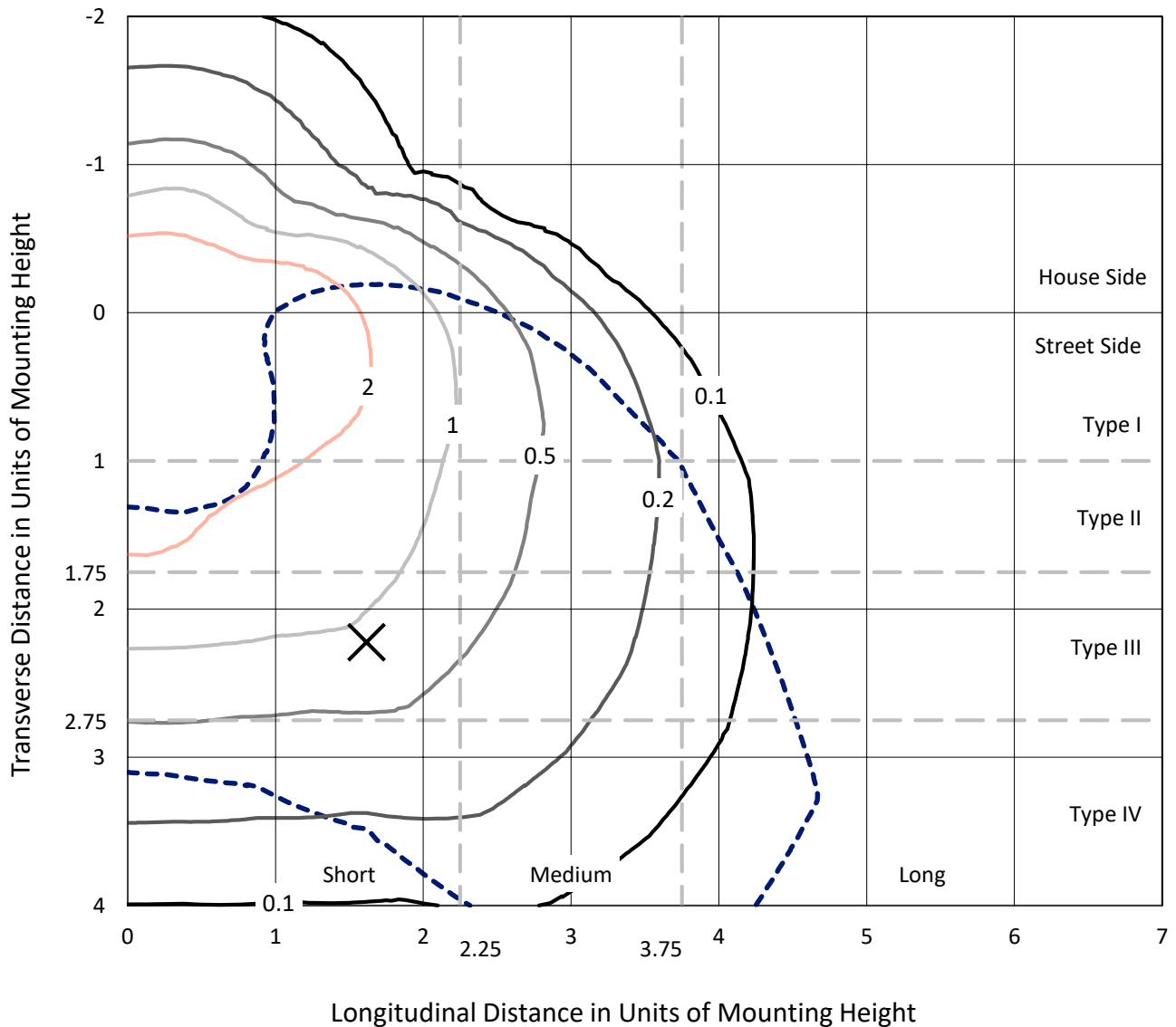
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

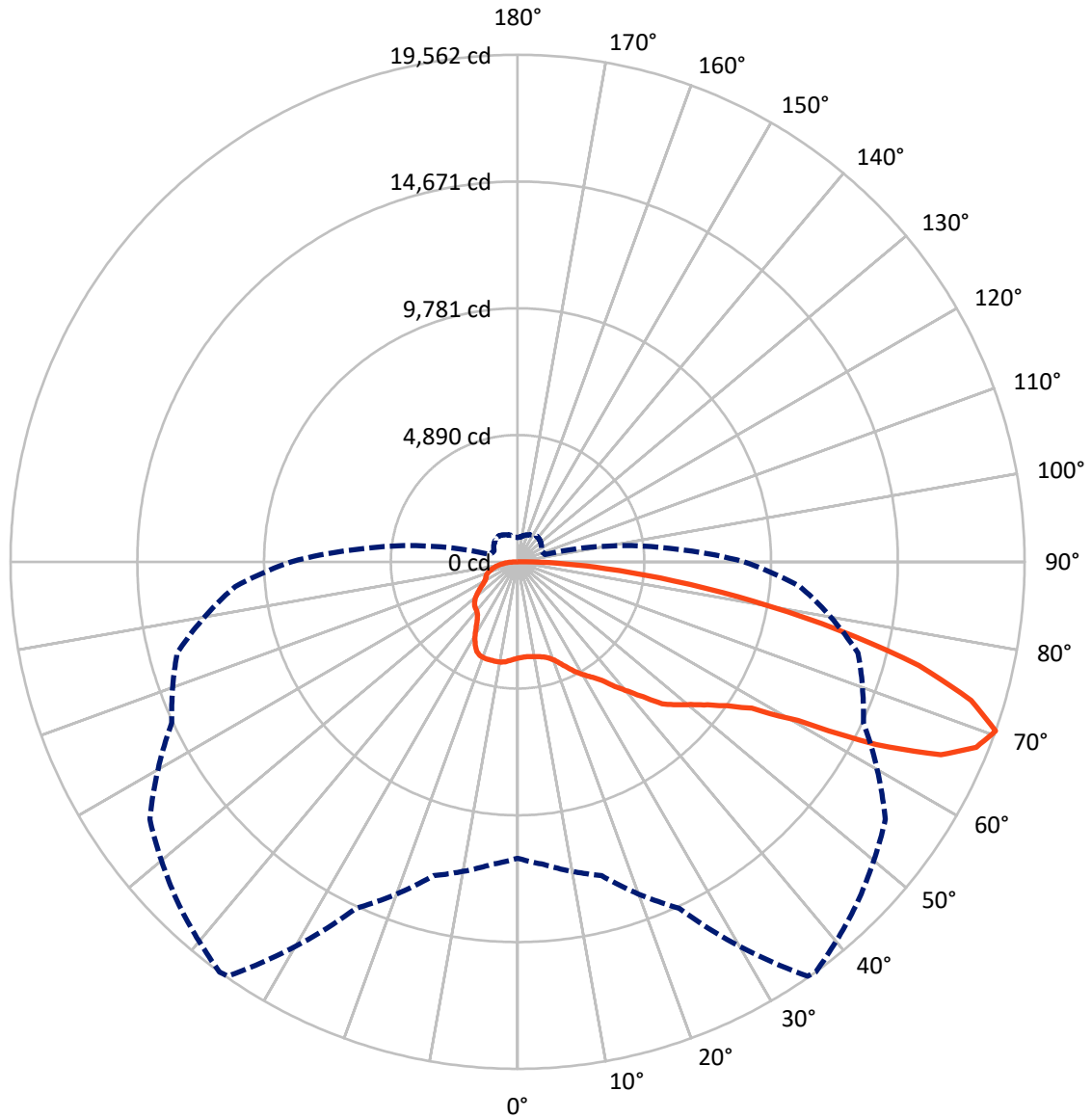
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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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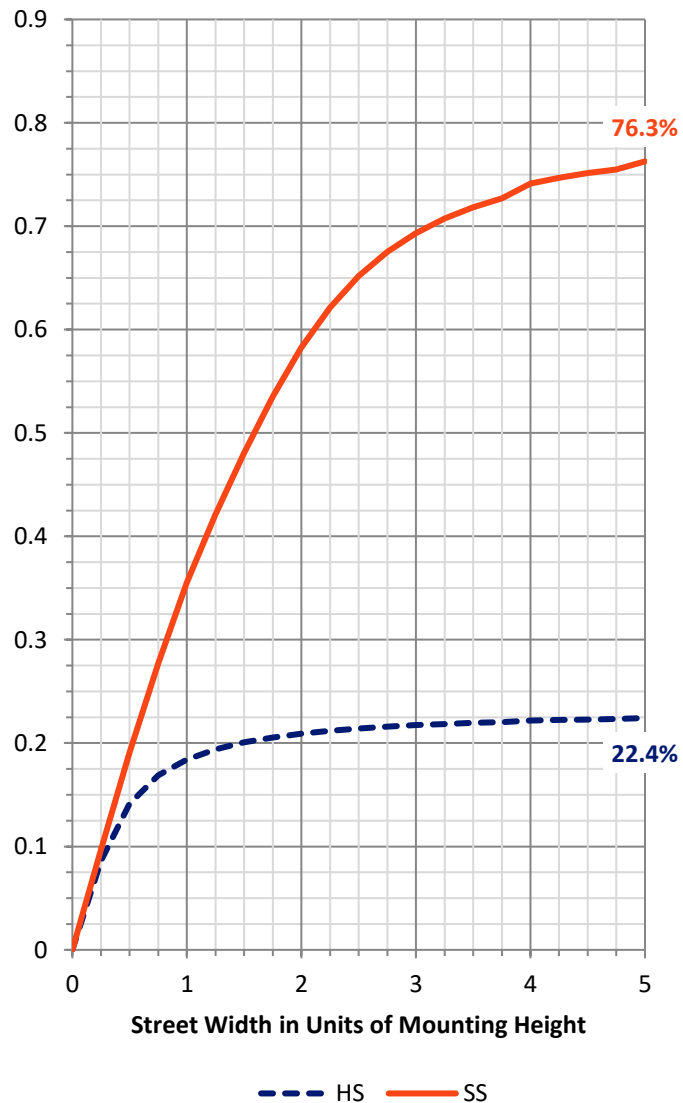
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7720.7	0.0	7720.7
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	26165.3	0.0	26165.3
	% Fixture	77.2	0.0	77.2
Total	Lumens	33886.0	0.0	33886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	1.1
10°-20°	1111.6	3.3
20°-30°	2005.2	5.9
30°-40°	3105.6	9.2
40°-50°	4717.4	13.9
50°-60°	6538.7	19.3
60°-70°	8502.5	25.1
70°-80°	6279.0	18.5
80°-90°	1266.3	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°	33886.0	100.0
0°-180°	33886.0	100.0

Coefficient of Utilization



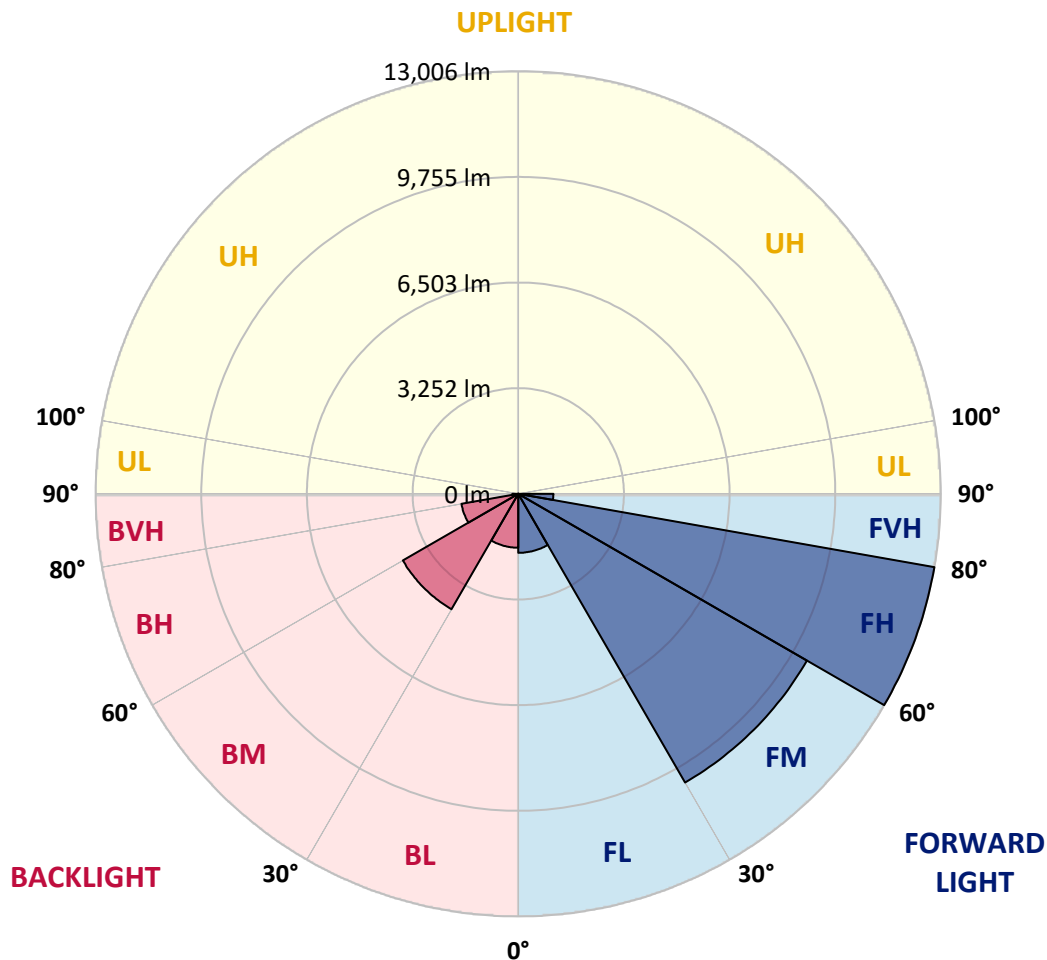
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1816.6	5.4			
FM (30°-60°)	10260.6	30.3			
FH (60°-80°)	13006.2	38.4			G5
FVH (80°-90°)	1081.9	3.2			G5
BL (0°-30°)	1659.7	4.9	B3/2500		
BM (30°-60°)	4101.1	12.1	B3/5000		
BH (60°-80°)	1775.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	184.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5
2.5°	3689.1	3684.2	3681.4	3687.0	3689.1	3689.8	3691.2	3689.8	3686.3	3698.9	3714.3
5°	3689.8	3687.0	3681.4	3676.4	3676.4	3676.4	3677.1	3693.3	3700.3	3698.9	3717.8
7.5°	3695.4	3693.3	3682.8	3679.3	3687.7	3690.5	3704.5	3699.6	3707.3	3719.9	3736.1
10°	3696.1	3693.3	3684.2	3691.9	3715.7	3719.9	3726.3	3740.3	3743.1	3758.5	3774.7
12.5°	3703.1	3703.1	3706.6	3723.5	3748.7	3753.6	3777.5	3788.7	3805.5	3813.3	3832.9
15°	3740.3	3739.6	3748.0	3767.0	3807.6	3810.5	3839.9	3873.6	3886.2	3905.2	3936.7
17.5°	3828.7	3832.9	3833.6	3847.6	3896.1	3897.5	3945.9	3977.4	4006.2	4039.9	4112.1
20°	4038.5	4030.8	4022.3	4022.3	4041.3	4051.1	4088.3	4138.8	4197.7	4257.4	4342.3
22.5°	4302.3	4317.7	4286.8	4270.7	4279.8	4268.6	4296.7	4337.4	4406.1	4495.2	4602.6
25°	4617.3	4618.7	4616.6	4551.4	4531.0	4538.0	4561.2	4599.1	4690.3	4761.1	4916.9
27.5°	4924.6	4918.3	4895.8	4827.1	4807.4	4817.3	4816.6	4921.1	5014.4	5104.9	5288.0
30°	5203.9	5220.7	5180.7	5064.9	5067.0	5065.6	5097.9	5232.6	5403.1	5571.5	5759.5
32.5°	5696.4	5645.2	5591.1	5362.4	5320.3	5315.4	5334.4	5535.0	5787.6	6071.7	6297.7
35°	6160.2	6147.5	6094.2	5862.0	5618.5	5614.3	5588.3	5832.5	6187.5	6713.7	6995.8
37.5°	6634.4	6616.2	6563.6	6365.7	6123.7	6100.5	5882.3	6149.6	6629.5	7464.4	7866.5
40°	7199.9	7188.7	7107.3	6854.0	6605.7	6570.6	6344.0	6482.9	7187.3	8464.2	8747.7
42.5°	7696.0	7693.9	7600.6	7365.5	7154.3	7119.3	6926.3	7070.8	7962.6	9443.7	9610.7
45°	8060.1	8115.5	8119.8	7985.7	7839.8	7808.9	7757.7	7957.0	8859.3	10332.6	10308.1
47.5°	8367.4	8415.1	8365.3	8296.6	8246.7	8248.9	8328.1	8723.8	9744.7	11107.2	10916.4
50°	8881.0	8851.5	8592.6	8551.9	8615.1	8652.3	8882.4	9551.7	10758.5	11834.1	11462.2
52.5°	9621.9	9508.9	9001.0	8918.2	9157.4	9171.5	9537.7	10291.9	11771.6	12457.8	11961.8
55°	10635.7	10542.4	9968.5	9586.1	9706.8	9801.5	10317.2	11050.4	12598.8	13044.4	12346.3
57.5°	12134.4	12141.4	11673.4	10960.6	10550.1	10651.2	11053.9	11787.8	13282.2	13535.5	12586.2
60°	13335.5	13557.9	13418.3	13092.8	12503.4	12434.7	12128.1	12556.0	13866.0	13953.0	12815.6
62.5°	14168.4	14269.4	14749.3	14818.0	15491.6	15520.4	14051.9	13456.2	14507.2	14226.6	12864.1
65°	14126.3	14188.7	14947.1	15870.5	17860.2	17949.3	17089.9	14818.0	14946.4	14348.7	12723.0
67.5°	13142.6	13236.6	14200.6	15926.6	19122.4	19088.8	18543.6	16713.8	15091.0	14152.9	12050.9
70°	11434.2	11723.9	12533.6	14743.0	19516.7	19561.6	18556.9	17319.3	14718.4	13599.3	10930.4
72.5°	9424.1	9515.3	10280.0	12752.5	18364.0	18298.0	17796.4	16520.2	14044.9	12598.1	8969.4
75°	7167.0	7167.0	8093.1	10162.8	15770.1	16001.7	16196.7	14962.6	12442.4	10268.1	6107.5
77.5°	4757.6	4928.1	5673.9	7637.0	12483.1	12654.3	13327.8	12753.9	10187.4	7529.7	2789.6
80°	2523.7	2544.7	3344.6	5074.8	8928.7	9251.5	10177.6	9836.6	7327.6	3527.7	705.1
82.5°	882.6	963.3	1470.6	2941.2	5883.0	6084.4	6751.6	5845.1	2588.2	780.9	390.1
85°	438.5	453.9	647.6	1400.4	3312.3	3409.8	3944.5	2276.7	416.8	341.0	265.2
87.5°	211.2	216.1	248.4	501.0	1439.7	1506.4	1594.8	740.9	154.4	129.8	115.1
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°	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5	3711.5
2.5°	3717.8	3724.2	3736.1	3739.6	3731.2	3746.6	3761.3	3774.7	3774.0	3778.9	3796.4
5°	3726.3	3739.6	3752.2	3774.7	3796.4	3809.1	3821.0	3832.2	3835.7	3846.2	3856.8
7.5°	3752.2	3765.6	3794.3	3833.6	3835.0	3866.6	3886.9	3890.4	3893.2	3893.2	3917.8
10°	3792.2	3816.8	3863.1	3890.4	3915.0	3904.5	3925.5	3912.2	3902.4	3906.6	3923.4
12.5°	3861.0	3882.7	3949.4	3979.5	3957.1	3952.9	3931.8	3901.7	3867.3	3863.8	3879.2
15°	3969.0	4009.7	4069.3	4098.1	4042.0	3992.2	3921.3	3859.6	3792.9	3768.4	3778.2
17.5°	4143.0	4192.1	4257.4	4237.7	4135.3	4037.1	3919.9	3789.4	3660.3	3570.5	3593.7
20°	4397.7	4434.2	4487.5	4408.2	4258.8	4096.7	3904.5	3698.2	3480.0	3316.5	3297.6
22.5°	4665.0	4720.4	4688.2	4541.5	4345.8	4119.9	3872.2	3565.6	3228.1	3023.2	2992.4
25°	4987.1	5005.3	4893.7	4672.7	4370.3	4083.4	3767.7	3371.9	2970.6	2777.7	2768.6
27.5°	5328.7	5287.3	5079.7	4733.1	4343.0	3975.3	3557.9	3066.0	2737.7	2567.2	2540.5
30°	5714.6	5618.5	5233.3	4739.4	4239.8	3764.8	3292.7	2826.8	2548.3	2377.1	2349.7
32.5°	6211.4	5984.8	5375.8	4674.1	4022.3	3456.1	2974.1	2622.6	2377.8	2205.9	2181.3
35°	6846.3	6464.0	5526.6	4556.3	3754.3	3147.4	2710.3	2449.3	2239.5	2032.6	1999.6
37.5°	7578.1	7132.6	5706.9	4407.5	3460.4	2875.9	2532.1	2339.2	2137.1	1902.8	1863.5
40°	8428.5	7801.9	5984.8	4230.0	3196.5	2680.2	2445.8	2301.3	2080.3	1836.1	1791.2
42.5°	9165.2	8509.9	6315.2	4039.2	2947.5	2517.4	2407.2	2276.0	2044.5	1786.3	1735.1
45°	9846.4	9094.3	6638.0	3807.6	2685.1	2405.8	2360.9	2212.9	1981.4	1724.6	1671.2
47.5°	10400.0	9566.5	6918.6	3595.1	2475.3	2303.4	2259.9	2092.9	1875.4	1650.2	1610.9
50°	10825.2	9921.5	7072.2	3426.0	2253.6	2186.9	2129.4	1957.5	1748.4	1554.1	1520.4
52.5°	11260.2	10277.2	7148.0	3434.4	2047.3	2013.6	1954.7	1807.4	1647.4	1497.9	1461.5
55°	11513.5	10423.1	7068.0	3230.2	1857.9	1818.6	1767.4	1690.9	1595.5	1462.9	1428.5
57.5°	11661.5	10513.7	6824.6	2634.6	1629.8	1592.7	1601.1	1594.8	1516.2	1376.6	1345.0
60°	11768.1	10317.2	6325.7	1936.4	1435.5	1407.4	1476.9	1454.4	1386.4	1277.6	1251.0
62.5°	11681.8	9943.2	5427.7	1455.8	1276.9	1336.6	1397.6	1356.2	1263.6	1164.7	1133.8
65°	11155.6	9209.4	4125.5	1169.6	1225.7	1307.8	1356.9	1290.3	1196.2	1079.1	1065.0
67.5°	10197.9	7879.1	2433.2	1072.1	1187.1	1274.1	1314.8	1226.4	1143.6	1031.4	1014.5
70°	8736.5	5898.5	1086.8	998.4	1119.8	1206.1	1232.7	1149.2	1059.4	954.2	937.4
72.5°	6502.5	3556.5	732.5	921.9	1020.1	1096.6	1126.1	1037.7	973.8	926.1	921.2
75°	3611.2	1234.8	675.7	834.9	911.4	980.2	1016.6	954.2	903.7	838.4	811.8
77.5°	1149.9	524.8	642.0	746.5	843.3	900.2	894.6	800.5	784.4	705.1	698.1
80°	458.9	457.5	593.6	611.1	719.9	767.6	754.9	636.4	657.4	611.1	592.9
82.5°	359.9	418.9	475.7	466.6	559.9	616.0	598.5	467.3	528.3	485.5	444.1
85°	273.6	366.9	305.2	303.8	390.8	457.5	468.7	359.2	359.9	327.7	291.9
87.5°	141.0	135.4	117.2	116.5	130.5	185.9	228.0	204.2	161.4	121.4	116.5
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)