

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: P399955

Luminaire Tested: **ARCH-L-PA3-210-760-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-210-760-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29781 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

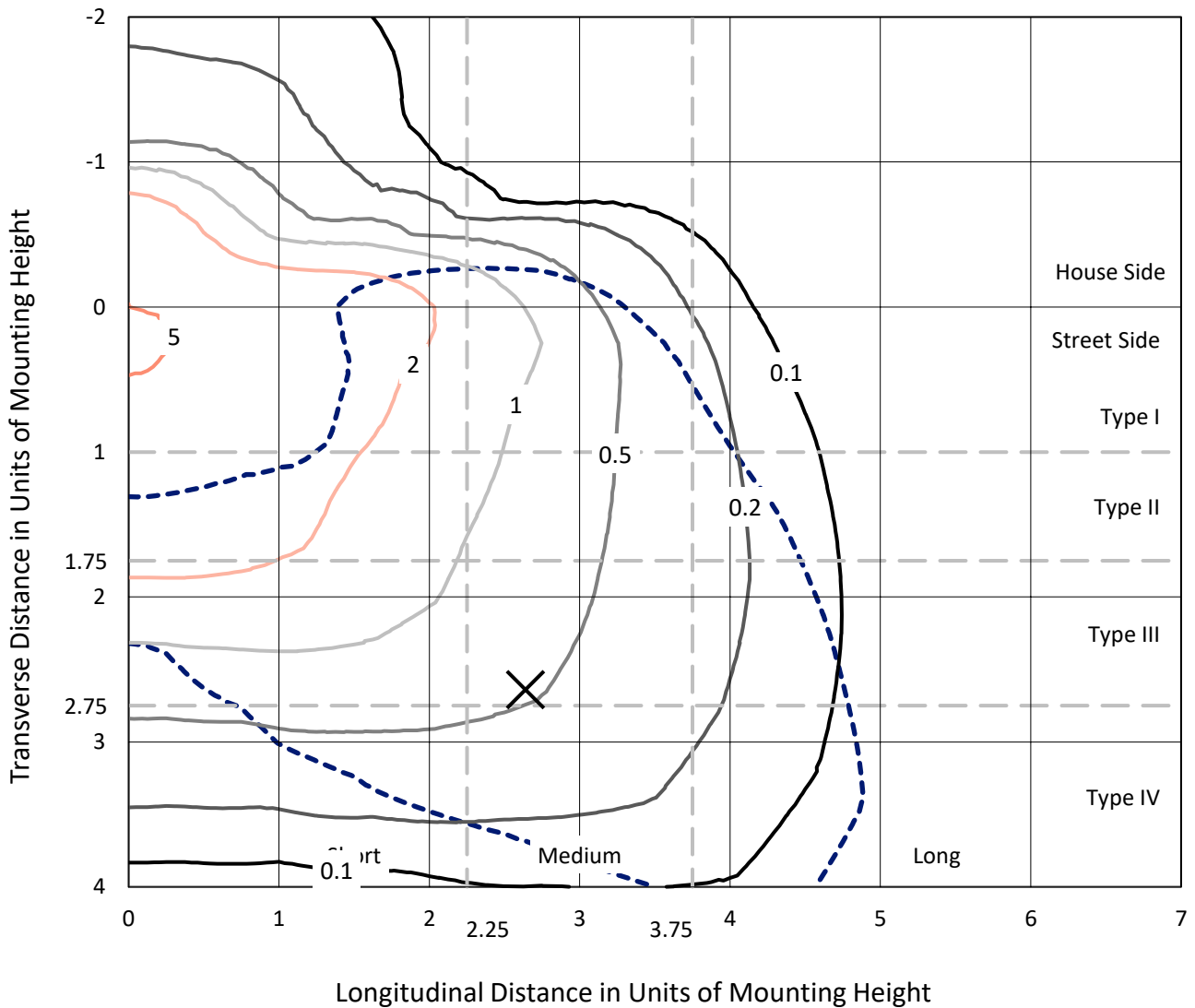
Input Watts (W): 211  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

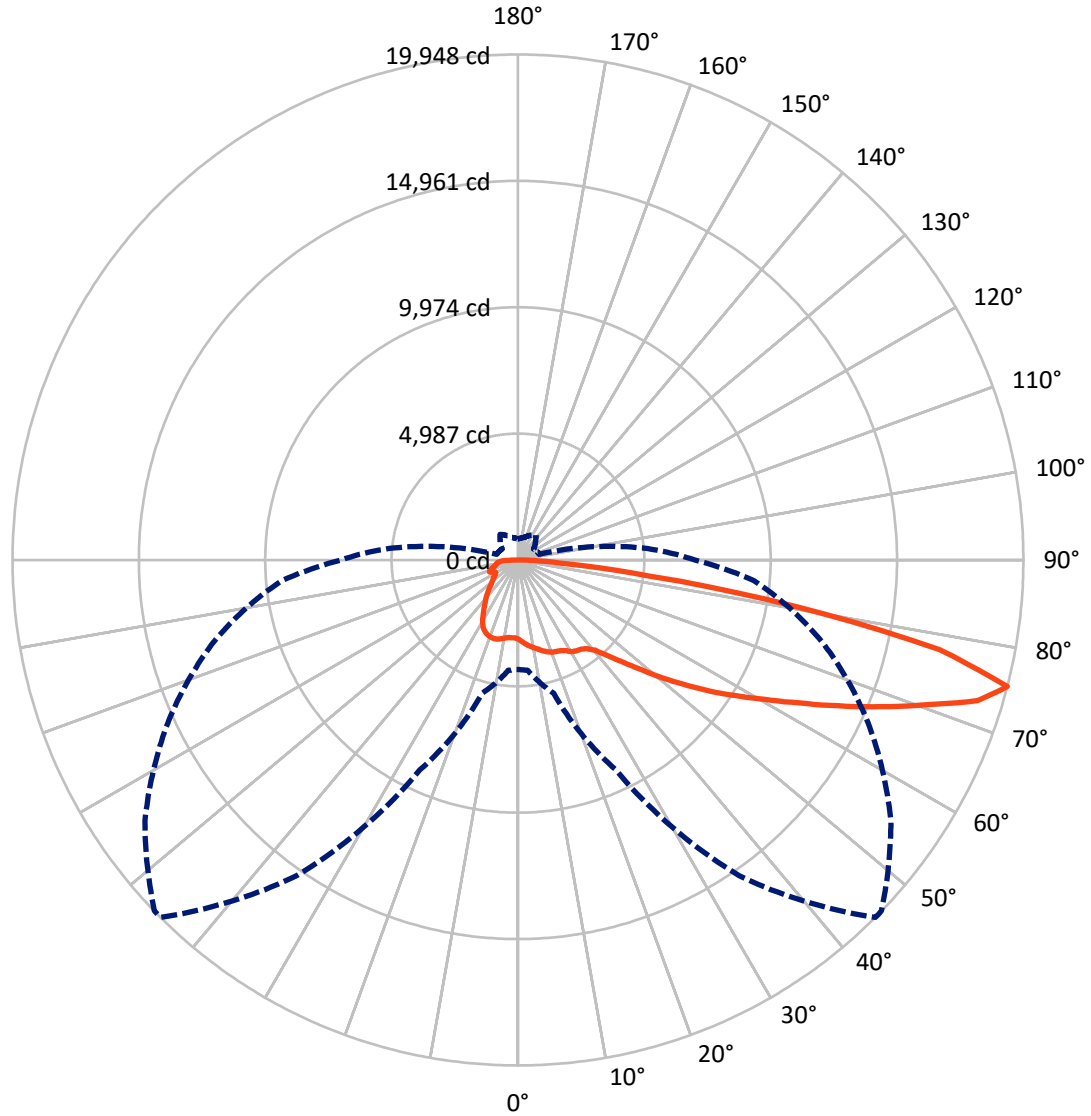
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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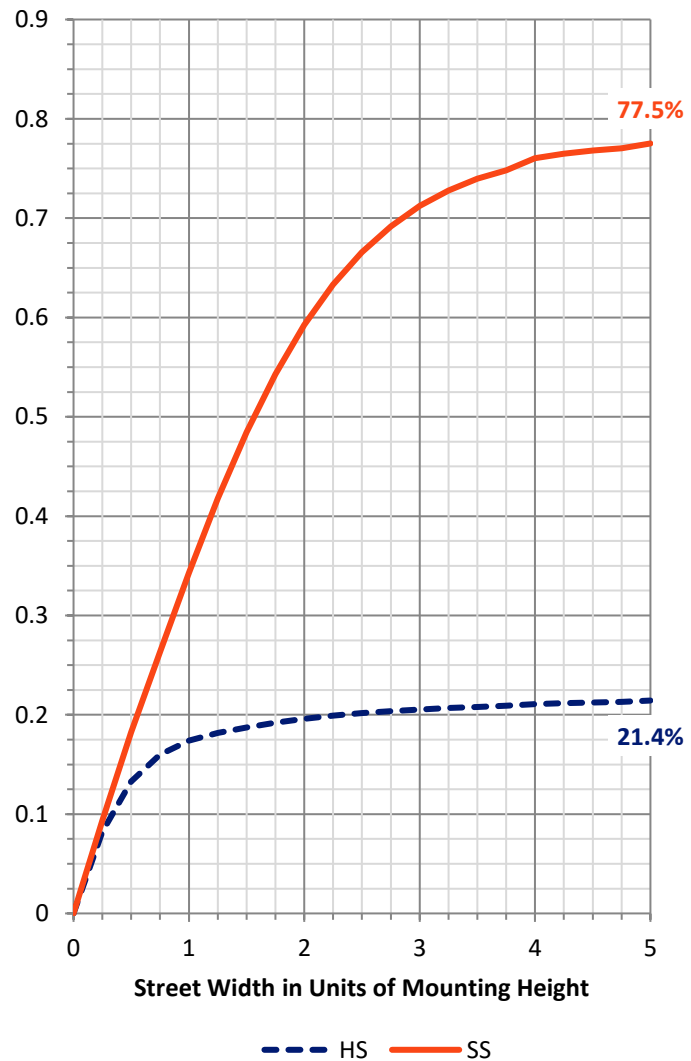
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6581.5	0.0	6581.5
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	23199.5	0.0	23199.5
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	29781.0	0.0	29781.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.4	1.0
10°-20°	984.4	3.3
20°-30°	1678.2	5.6
30°-40°	2351.4	7.9
40°-50°	3454.5	11.6
50°-60°	5497.8	18.5
60°-70°	7820.7	26.3
70°-80°	6548.2	22.0
80°-90°	1136.5	3.8
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°	29781.0	100.0
0°-180°	29781.0	100.0

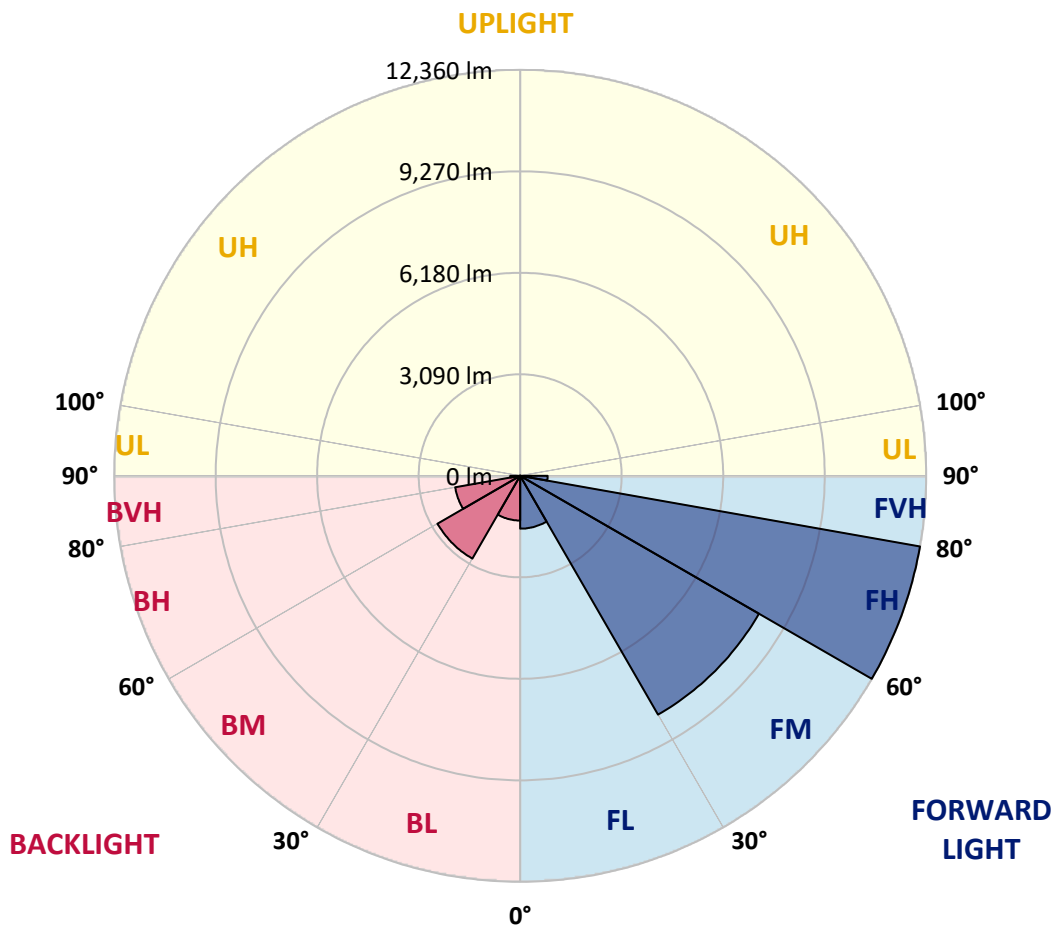


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1609.9	5.4			
FM (30°-60°)	8394.4	28.2			
FH (60°-80°)	12359.9	41.5			G5
FVH (80°-90°)	835.5	2.8			G5
BL (0°-30°)	1362.1	4.6	B3/2500		
BM (30°-60°)	2909.3	9.8	B3/5000		
BH (60°-80°)	2009.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	301.0	1.0			G3/500
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7
2.5°	3306.7	3290.8	3282.8	3282.8	3251.0	3231.1	3227.1	3199.3	3175.4	3151.5	3131.6
5°	3497.7	3485.8	3461.9	3442.0	3398.2	3342.5	3334.6	3274.9	3215.2	3159.5	3111.7
7.5°	3672.8	3648.9	3621.1	3581.3	3509.7	3434.1	3422.1	3338.6	3255.0	3171.4	3107.8
10°	3820.0	3796.2	3756.4	3700.7	3609.1	3517.6	3505.7	3418.1	3330.6	3231.1	3139.6
12.5°	3959.3	3939.4	3879.7	3804.1	3696.7	3613.1	3601.2	3525.6	3434.1	3322.6	3203.3
15°	4078.7	4058.8	3995.1	3907.6	3784.2	3720.6	3704.6	3633.0	3541.5	3422.1	3298.8
17.5°	4138.4	4138.4	4070.7	3975.2	3859.8	3812.1	3800.1	3712.6	3629.0	3513.6	3390.3
20°	4158.3	4166.2	4118.5	4003.1	3903.6	3883.7	3871.8	3800.1	3704.6	3593.2	3477.8
22.5°	4170.2	4186.1	4146.3	4015.0	3931.5	3919.5	3911.6	3863.8	3788.2	3680.8	3565.4
25°	4210.0	4210.0	4182.1	4034.9	3967.3	3963.3	3963.3	3935.4	3883.7	3792.2	3676.8
27.5°	4269.7	4265.7	4229.9	4078.7	4046.9	4058.8	4054.8	4050.8	4015.0	3923.5	3800.1
30°	4369.2	4369.2	4329.4	4166.2	4146.3	4198.1	4202.0	4210.0	4154.3	4011.0	3911.6
32.5°	4520.4	4504.5	4464.7	4253.8	4221.9	4269.7	4277.6	4273.7	4225.9	4090.6	4042.9
35°	4985.9	4950.1	4806.9	4448.8	4289.6	4317.4	4321.4	4341.3	4349.3	4241.8	4218.0
37.5°	5801.7	5753.9	5535.1	4910.3	4504.5	4436.8	4432.8	4484.6	4528.3	4432.8	4432.8
40°	6689.0	6649.3	6521.9	5706.2	4902.4	4679.5	4663.6	4711.4	4767.1	4699.4	4719.3
42.5°	7453.1	7484.9	7496.8	6549.8	5499.3	5133.2	5089.4	5021.8	5109.3	5049.6	5129.2
45°	8026.1	8010.1	8229.0	7413.3	6271.2	5702.2	5642.5	5459.5	5570.9	5566.9	5742.0
47.5°	8634.9	8607.0	8698.5	8225.0	7150.6	6398.6	6307.0	6036.5	6203.6	6319.0	6609.5
50°	9211.9	9219.8	9251.7	8865.7	8105.6	7246.1	7130.7	6768.6	7007.4	7250.1	7660.0
52.5°	9963.9	9908.2	9868.4	9613.8	9176.1	8129.5	8053.9	7640.1	7974.3	8260.8	8806.0
55°	10620.5	10584.7	10560.8	10548.9	10071.4	9104.4	9024.8	8595.1	9076.6	9279.5	10083.3
57.5°	11320.8	11300.9	11428.3	11631.2	11440.2	10095.2	10011.7	9597.8	10135.0	10278.3	11468.1
60°	11834.2	11846.1	12196.3	12713.6	12582.3	11169.6	11070.2	10704.1	11165.7	11293.0	12852.8
62.5°	11838.1	11957.5	12769.3	13696.4	13847.6	12407.2	12291.8	11893.8	12224.1	12224.1	14094.4
65°	10708.0	10843.3	12665.8	13939.2	15128.9	13879.5	13768.1	13143.3	13266.7	13099.5	15260.3
67.5°	9581.9	9741.1	11456.1	13959.1	16028.2	15455.2	15323.9	14392.8	14181.9	13760.1	16076.0
70°	8833.8	8945.3	10377.8	13700.4	16569.4	17102.6	17003.2	15578.6	14902.1	14313.2	15904.9
72.5°	7437.1	7397.3	8766.2	12470.8	16871.8	18972.9	18889.3	16867.9	15526.9	14050.6	13565.1
75°	4317.4	4365.2	5439.6	9136.3	15208.5	19947.8	19939.8	17970.1	15252.3	12411.1	9347.2
77.5°	1245.5	1281.3	1786.7	4015.0	9617.7	17015.1	17560.2	16434.1	12892.6	8845.8	4846.7
80°	545.2	573.0	775.9	1337.0	4142.4	11113.9	11591.4	11113.9	7775.4	4058.8	1902.1
82.5°	322.3	342.2	505.4	827.7	1985.6	5288.4	5933.0	5180.9	3354.5	1723.0	787.9
85°	183.0	191.0	290.5	525.3	1249.5	1850.3	2077.1	1945.8	1635.5	978.9	413.8
87.5°	83.6	87.5	143.3	246.7	700.3	624.7	648.6	859.5	947.1	596.9	206.9
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°	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7	3127.7
2.5°	3123.7	3111.7	3087.9	3079.9	3068.0	3071.9	3075.9	3075.9	3079.9	3068.0	3068.0
5°	3091.8	3071.9	3048.1	3048.1	3048.1	3079.9	3107.8	3123.7	3131.6	3131.6	3123.7
7.5°	3079.9	3056.0	3028.2	3036.1	3044.1	3083.9	3135.6	3187.3	3203.3	3203.3	3195.3
10°	3103.8	3079.9	3060.0	3071.9	3091.8	3123.7	3163.5	3211.2	3251.0	3255.0	3251.0
12.5°	3159.5	3131.6	3111.7	3135.6	3159.5	3179.4	3199.3	3219.2	3270.9	3278.9	3278.9
15°	3251.0	3223.2	3199.3	3219.2	3227.1	3227.1	3227.1	3227.1	3278.9	3286.8	3286.8
17.5°	3342.5	3318.7	3294.8	3298.8	3274.9	3243.1	3231.1	3227.1	3255.0	3278.9	3282.8
20°	3430.1	3410.2	3386.3	3346.5	3286.8	3227.1	3207.2	3207.2	3223.2	3259.0	3259.0
22.5°	3525.6	3501.7	3461.9	3370.4	3270.9	3187.3	3167.4	3179.4	3199.3	3247.0	3243.1
25°	3633.0	3601.2	3533.5	3362.4	3219.2	3119.7	3123.7	3159.5	3195.3	3247.0	3247.0
27.5°	3752.4	3708.6	3573.3	3298.8	3103.8	3008.3	3044.1	3127.7	3179.4	3235.1	3243.1
30°	3883.7	3843.9	3605.2	3187.3	2916.8	2829.2	2916.8	3052.1	3131.6	3183.4	3195.3
32.5°	4042.9	4011.0	3633.0	3044.1	2674.0	2598.4	2725.8	2892.9	3020.2	3079.9	3091.8
35°	4241.8	4210.0	3668.8	2880.9	2447.2	2367.6	2483.0	2654.1	2821.3	2896.9	2920.7
37.5°	4500.5	4452.7	3700.7	2705.9	2256.2	2164.7	2220.4	2375.6	2526.8	2630.3	2658.1
40°	4830.8	4755.2	3728.5	2506.9	2089.1	1985.6	2005.5	2081.1	2168.7	2260.2	2296.0
42.5°	5296.3	5145.1	3732.5	2296.0	1918.0	1822.5	1814.5	1838.4	1838.4	1838.4	1850.3
45°	5944.9	5658.4	3740.5	2097.0	1742.9	1643.4	1619.5	1611.6	1551.9	1436.5	1428.5
47.5°	6764.7	6330.9	3776.3	1929.9	1559.8	1472.3	1440.5	1408.6	1297.2	1177.8	1154.0
50°	7815.2	7110.8	3847.9	1770.7	1404.7	1345.0	1305.2	1229.6	1106.2	1014.7	990.8
52.5°	9024.8	8038.0	3915.5	1603.6	1289.3	1249.5	1201.7	1110.2	978.9	923.2	915.2
55°	10413.6	9072.6	4050.8	1456.4	1189.8	1161.9	1118.2	1030.6	931.1	891.3	887.4
57.5°	11834.2	10230.5	4241.8	1325.1	1094.3	1078.4	1078.4	1002.8	939.1	923.2	923.2
60°	13203.0	11225.3	4094.6	1201.7	1006.7	1014.7	1090.3	1070.4	1022.7	1042.6	1054.5
62.5°	14265.5	11810.3	3322.6	1102.2	943.1	1014.7	1209.7	1209.7	1154.0	1146.0	1146.0
65°	14719.1	11802.3	2335.8	1026.6	919.2	1114.2	1349.0	1285.3	1138.1	1082.3	1070.4
67.5°	14603.7	11285.0	1611.6	974.9	911.2	1217.6	1412.6	1233.6	1066.4	1018.7	982.9
70°	13589.0	10190.7	1241.5	927.2	899.3	1173.9	1392.7	1173.9	1010.7	966.9	935.1
72.5°	10962.7	8173.3	1030.6	879.4	851.6	1086.3	1325.1	1118.2	966.9	919.2	887.4
75°	6991.5	5141.1	871.4	815.7	760.0	974.9	1233.6	1062.4	919.2	855.5	831.7
77.5°	3362.4	2216.4	760.0	740.1	684.4	903.3	1142.0	990.8	855.5	803.8	787.9
80°	1360.9	1014.7	660.5	664.5	628.7	859.5	1078.4	923.2	791.9	736.2	708.3
82.5°	708.3	588.9	557.1	573.0	573.0	819.7	1030.6	867.5	736.2	712.3	620.8
85°	382.0	366.1	429.8	461.6	497.4	740.1	959.0	807.8	672.5	577.0	557.1
87.5°	187.0	238.8	242.7	278.5	346.2	592.9	807.8	676.5	561.1	465.6	457.6
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)