

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: P400277

Luminaire Tested: **ARCH-L-PA3-260-727-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-260-727-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28727 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

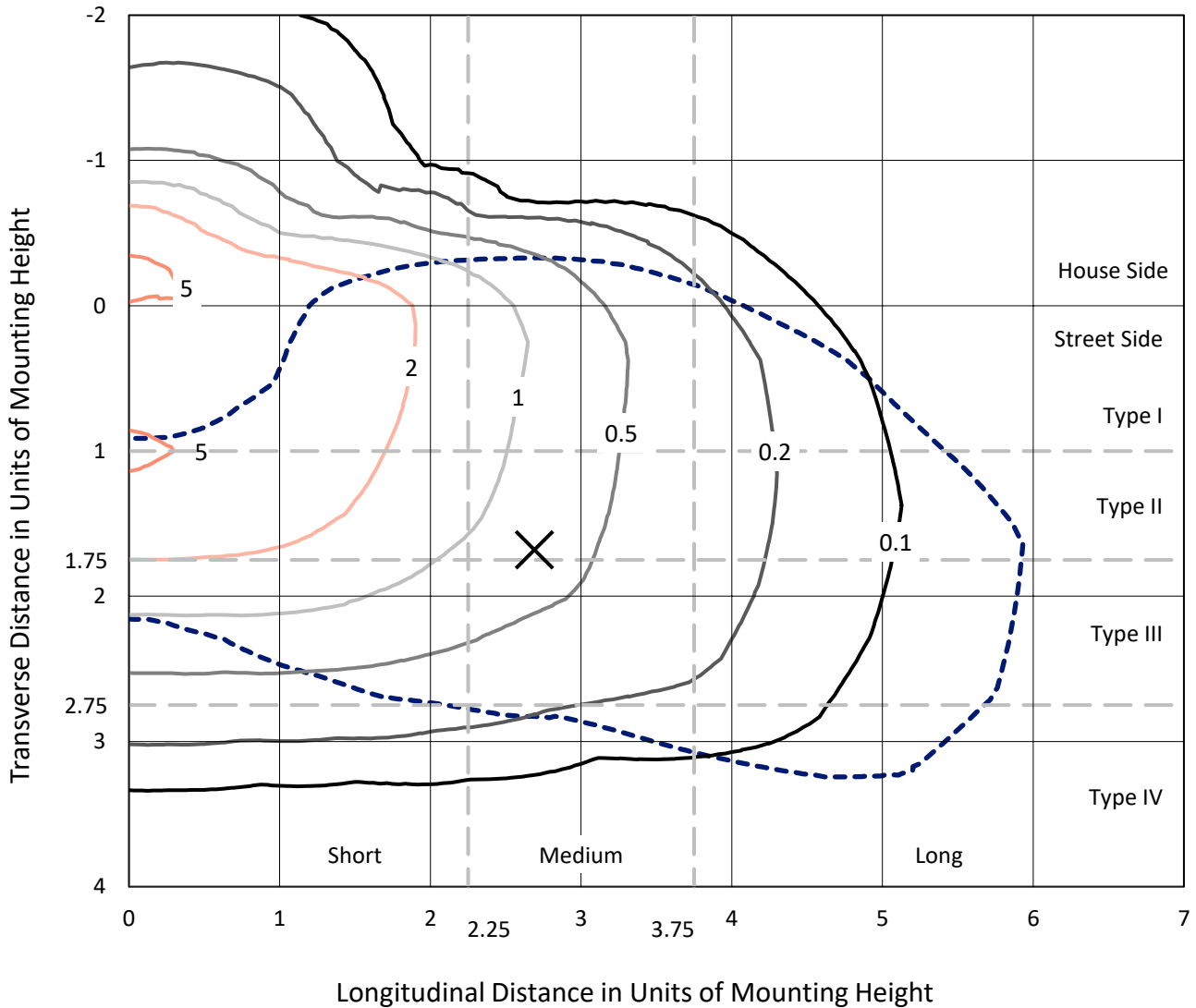
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

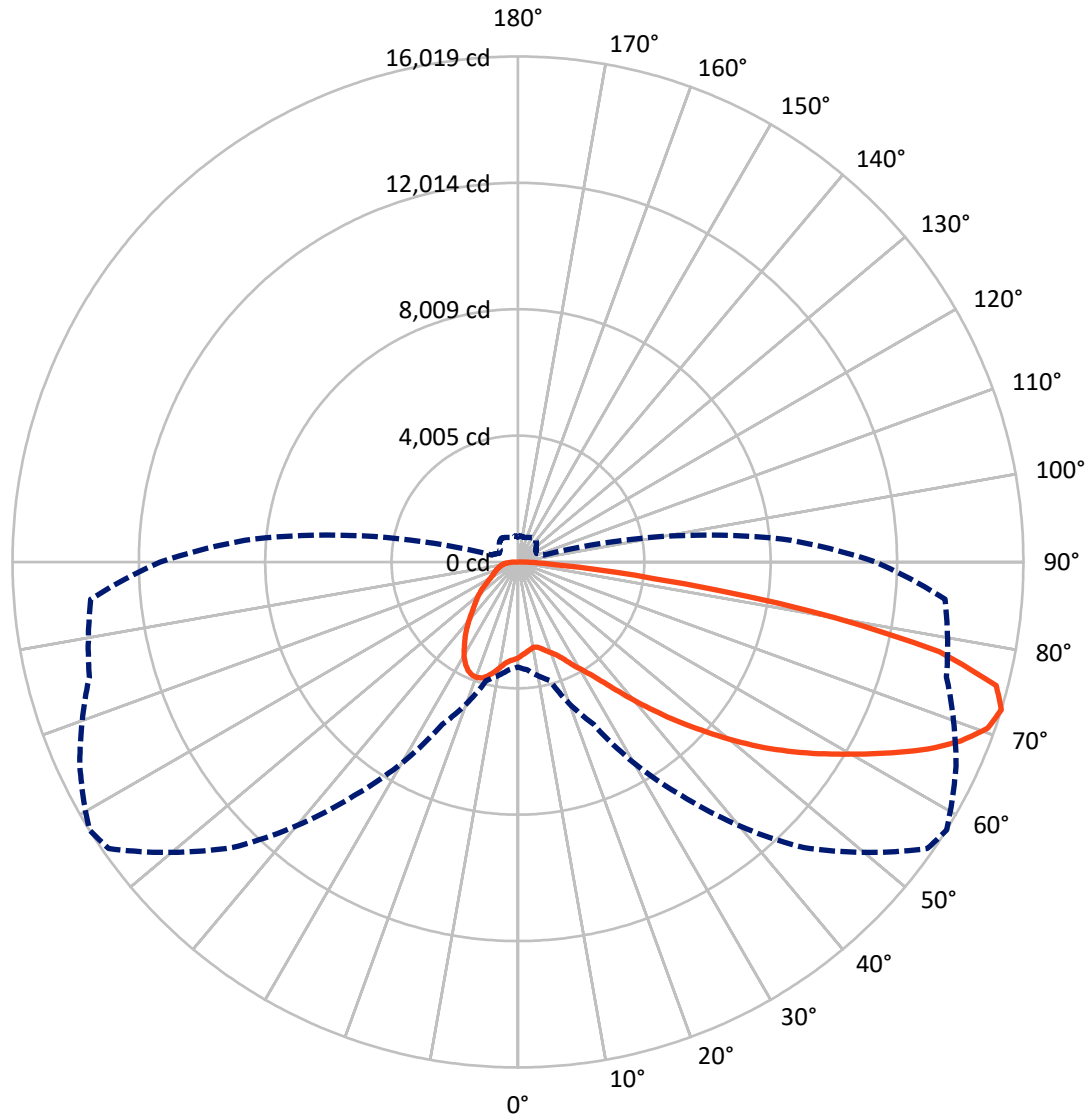
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3

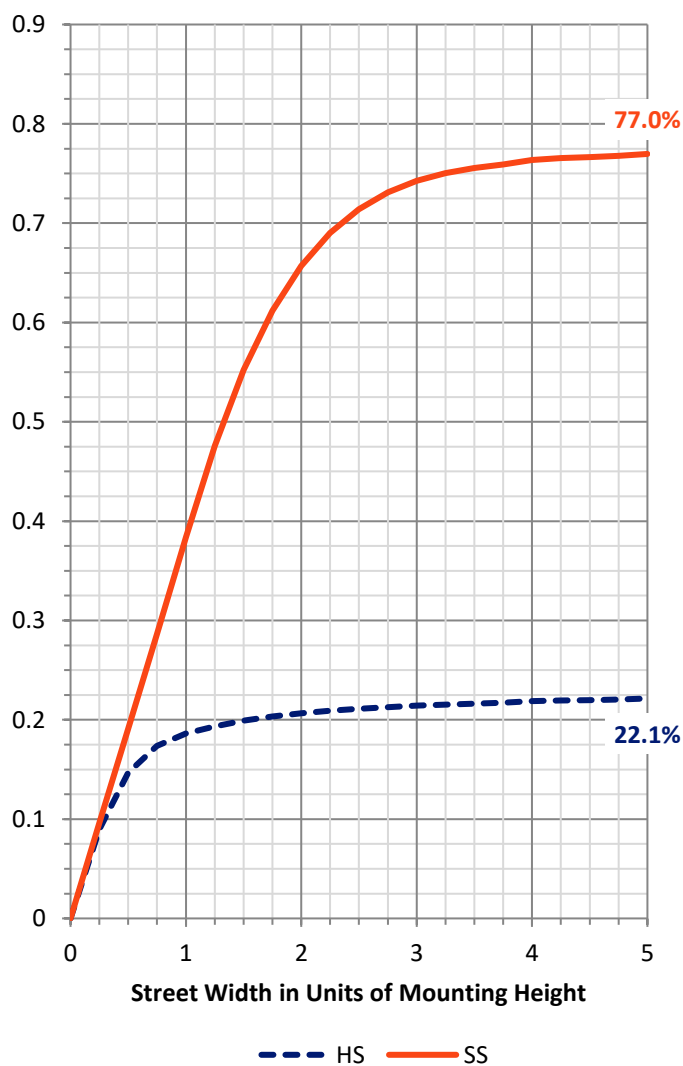
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6515.0	0.0	6515.0
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	22212.0	0.0	22212.0
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	28727.0	0.0	28727.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.9	1.0
10°-20°	927.0	3.2
20°-30°	1660.5	5.8
30°-40°	2497.9	8.7
40°-50°	4045.0	14.1
50°-60°	6089.0	21.2
60°-70°	7166.1	24.9
70°-80°	5081.4	17.7
80°-90°	968.3	3.4
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°	28727.0	100.0
0°-180°	28727.0	100.0

**Coefficient of Utilization**



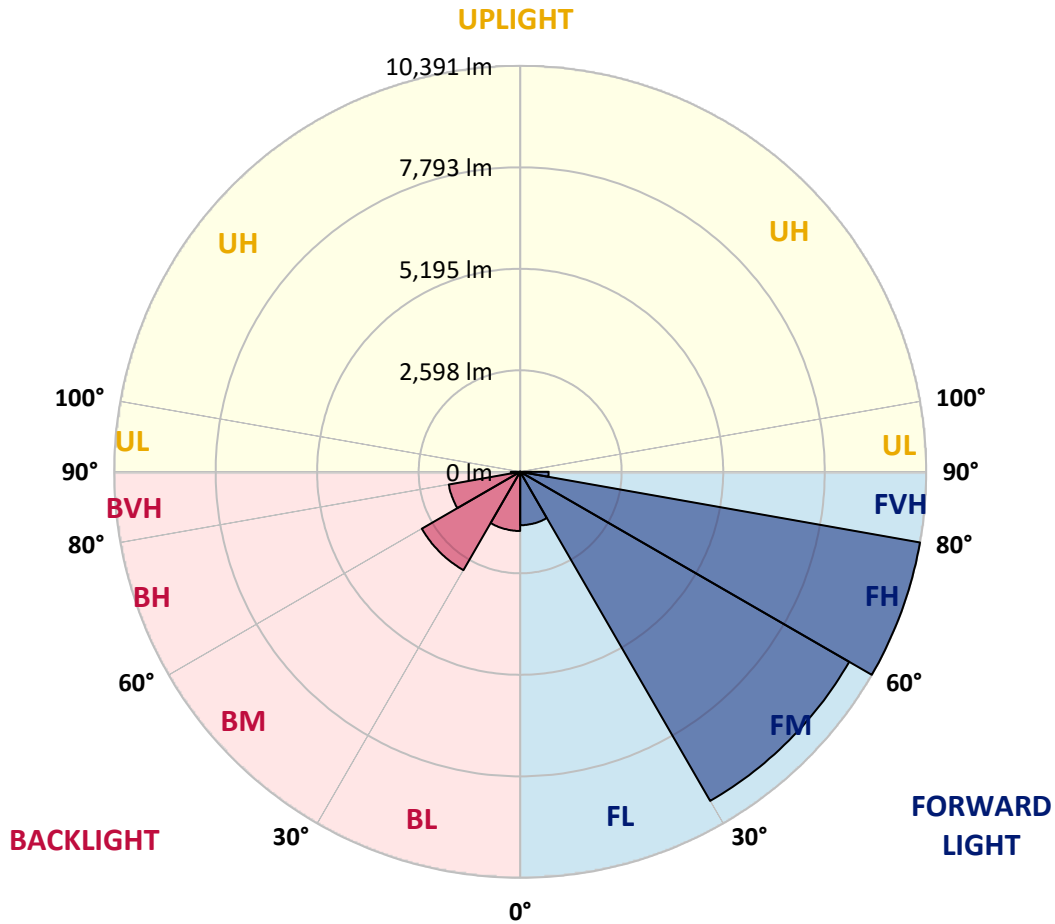
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 CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.1	4.8			
FM (30°-60°)	9724.9	33.9			
FH (60°-80°)	10390.7	36.2			G4/12000
FVH (80°-90°)	730.4	2.5			G4/750
BL (0°-30°)	1513.3	5.3	B3/2500		
BM (30°-60°)	2906.9	10.1	B3/5000		
BH (60°-80°)	1856.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	237.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1
2.5°	2916.3	2901.1	2904.9	2904.9	2920.1	2927.7	2931.5	2942.9	2950.4	2969.4	2996.0
5°	2779.8	2768.4	2772.2	2776.0	2802.5	2829.1	2851.8	2867.0	2889.8	2920.1	2958.0
7.5°	2681.2	2673.6	2677.4	2685.0	2707.7	2738.1	2776.0	2798.8	2832.9	2889.8	2954.2
10°	2609.1	2609.1	2612.9	2628.1	2650.9	2688.8	2719.1	2745.7	2813.9	2916.3	3014.9
12.5°	2552.3	2552.3	2563.6	2594.0	2631.9	2669.8	2741.9	2772.2	2863.2	3003.5	3121.1
15°	2548.5	2552.3	2556.0	2582.6	2624.3	2707.7	2813.9	2859.4	2969.4	3136.3	3272.8
17.5°	2609.1	2612.9	2597.8	2605.3	2654.6	2772.2	2912.5	2965.6	3105.9	3288.0	3428.3
20°	2795.0	2795.0	2749.5	2707.7	2741.9	2870.8	3030.1	3083.2	3238.7	3439.7	3580.0
22.5°	3174.2	3193.2	3087.0	2996.0	2942.9	3014.9	3159.0	3215.9	3390.4	3606.5	3746.8
25°	3633.1	3652.0	3507.9	3379.0	3280.4	3269.0	3363.8	3424.5	3568.6	3792.4	3909.9
27.5°	4076.8	4042.6	3909.9	3788.6	3663.4	3561.0	3633.1	3686.2	3853.0	4023.7	4095.7
30°	4425.7	4399.1	4270.2	4183.0	4065.4	3932.7	3891.0	3947.8	4084.4	4243.6	4281.6
32.5°	4812.5	4793.5	4664.6	4550.8	4452.2	4327.1	4236.1	4262.6	4338.4	4452.2	4475.0
35°	5305.5	5347.2	5210.7	4979.4	4869.4	4748.0	4683.6	4691.1	4748.0	4820.1	4782.2
37.5°	5825.0	5874.4	5881.9	5517.9	5370.0	5260.0	5191.7	5218.3	5286.5	5335.8	5218.3
40°	6788.3	6739.0	6541.8	6272.5	6045.0	5938.8	5844.0	5840.2	5889.5	5976.7	5764.4
42.5°	8066.3	8020.8	7622.6	7273.7	6913.5	6792.1	6606.3	6526.6	6549.4	6659.4	6363.6
45°	9291.3	9272.3	8953.7	8548.0	8115.6	7880.5	7455.8	7262.4	7243.4	7330.6	6977.9
47.5°	10379.7	10296.2	10064.9	9750.1	9704.6	9090.3	8309.0	8047.4	7956.4	8005.7	7611.2
50°	11543.9	11259.5	10940.9	10747.5	11077.5	10504.8	9169.9	8896.9	8673.1	8707.2	8297.7
52.5°	12162.1	11684.2	11475.7	11532.5	11976.2	11756.3	10106.6	9772.9	9412.6	9461.9	8980.3
55°	11631.1	11627.3	11718.4	12071.1	12689.2	12435.1	10997.8	10622.4	10228.0	10239.3	9765.3
57.5°	10903.0	11050.9	11521.2	12298.6	13572.8	13148.1	11873.8	11475.7	11115.4	11058.5	10656.5
60°	10239.3	10402.4	11085.0	12260.7	13880.0	13800.4	12708.2	12359.3	12067.3	11900.4	11593.2
62.5°	9230.6	9351.9	10319.0	12018.0	13622.1	14270.6	13553.9	13314.9	13095.0	12749.9	12602.0
65°	8043.6	8085.3	9105.4	11217.8	13299.8	14452.6	14395.8	14289.6	14077.2	13569.0	13599.4
67.5°	6758.0	6841.4	7736.4	9939.7	12594.4	14369.2	15048.0	15135.3	14885.0	14122.7	14236.5
70°	5388.9	5491.3	6170.2	8172.5	11396.0	14008.9	15651.0	15791.3	15309.7	14304.7	14354.0
72.5°	3333.5	3432.1	3887.2	5677.1	9033.4	12799.2	15836.9	16018.9	15321.1	14062.0	13588.0
75°	1152.9	1164.3	1520.7	2722.9	5362.4	9662.9	15230.1	15658.6	14839.5	13178.4	11824.5
77.5°	527.1	546.1	675.0	1122.5	2377.8	5214.5	12575.4	13648.7	13375.6	11798.0	9101.6
80°	364.1	371.7	466.5	671.2	1372.8	1835.5	7937.4	9336.8	9814.6	9135.8	5832.6
82.5°	273.0	280.6	360.3	455.1	989.8	891.2	3022.5	4338.4	5392.7	5294.1	2438.5
85°	261.7	257.9	280.6	303.4	659.9	530.9	978.4	1342.5	2104.8	1801.4	614.4
87.5°	113.8	125.1	288.2	170.7	345.1	246.5	424.7	496.8	640.9	557.5	220.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400277  
 CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1	3030.1
2.5°	3007.3	3014.9	3037.7	3071.8	3090.8	3128.7	3155.2	3170.4	3181.8	3185.6	3185.6
5°	2980.8	2996.0	3045.3	3102.1	3155.2	3234.9	3306.9	3348.6	3379.0	3390.4	3394.2
7.5°	2988.4	3026.3	3098.4	3181.8	3250.0	3352.4	3439.7	3523.1	3591.4	3617.9	3617.9
10°	3060.4	3113.5	3212.1	3322.1	3409.3	3515.5	3606.5	3678.6	3758.2	3803.7	3811.3
12.5°	3170.4	3234.9	3363.8	3485.2	3583.8	3667.2	3750.6	3803.7	3841.7	3875.8	3883.4
15°	3325.9	3405.5	3534.5	3659.6	3746.8	3799.9	3822.7	3822.7	3818.9	3822.7	3830.3
17.5°	3481.4	3557.2	3686.2	3811.3	3853.0	3822.7	3796.1	3788.6	3784.8	3777.2	3781.0
20°	3633.1	3705.1	3815.1	3909.9	3875.8	3769.6	3735.5	3731.7	3720.3	3712.7	3705.1
22.5°	3784.8	3837.9	3928.9	3963.0	3826.5	3674.8	3633.1	3610.3	3595.1	3576.2	3557.2
25°	3959.2	3974.4	4042.6	3989.6	3705.1	3500.3	3439.7	3405.5	3390.4	3371.4	3356.2
27.5°	4122.3	4122.3	4133.7	3947.8	3526.9	3269.0	3178.0	3117.3	3113.5	3109.7	3105.9
30°	4270.2	4251.2	4213.3	3822.7	3295.6	2984.6	2848.1	2787.4	2810.1	2829.1	2832.9
32.5°	4444.6	4406.7	4300.5	3652.0	3018.7	2666.0	2499.2	2472.6	2499.2	2521.9	2506.7
35°	4717.7	4649.4	4391.5	3454.8	2753.2	2374.0	2214.7	2176.8	2169.2	2165.4	2135.1
37.5°	5108.3	4990.7	4463.6	3242.5	2491.6	2116.1	1998.6	1918.9	1846.9	1771.0	1759.7
40°	5586.1	5385.1	4512.9	2999.7	2214.7	1900.0	1774.8	1672.4	1551.1	1418.3	1403.2
42.5°	6109.5	5809.9	4535.7	2730.5	1972.0	1721.7	1566.2	1437.3	1300.8	1198.4	1179.4
45°	6674.5	6268.8	4516.7	2472.6	1774.8	1570.0	1395.6	1255.3	1145.3	1073.2	1058.1
47.5°	7224.4	6795.9	4463.6	2267.8	1623.1	1441.1	1262.9	1133.9	1050.5	970.8	951.9
50°	7929.8	7300.3	4399.1	2108.5	1456.3	1312.2	1179.4	1042.9	948.1	910.2	902.6
52.5°	8711.0	7804.7	4323.3	1907.6	1293.2	1209.8	1126.3	1005.0	974.6	902.6	891.2
55°	9556.7	8403.8	4308.1	1653.5	1149.1	1137.7	1073.2	1039.1	1046.7	902.6	883.6
57.5°	10447.9	9044.8	4342.2	1399.4	1031.5	1073.2	1096.0	1069.4	1058.1	921.5	883.6
60°	11377.1	9662.9	4239.8	1164.3	940.5	1020.1	1122.5	1054.3	970.8	914.0	887.4
62.5°	12279.6	10182.5	3796.1	997.4	872.2	1005.0	1107.4	997.4	902.6	902.6	891.2
65°	12935.7	10413.8	2969.4	876.0	826.7	986.0	1080.8	959.5	883.6	910.2	895.0
67.5°	13011.6	10174.9	1994.8	781.2	788.8	951.9	1020.1	925.3	864.7	932.9	910.2
70°	12545.1	9552.9	1221.1	709.2	739.5	891.2	967.0	891.2	838.1	914.0	879.8
72.5°	<b>11335.3</b>	<b>8392.5</b>	<b>860.9</b>	<b>648.5</b>	<b>686.4</b>	<b>834.3</b>	<b>917.7</b>	<b>860.9</b>	<b>800.2</b>	<b>826.7</b>	<b>792.6</b>
75°	9298.8	6503.9	682.6	591.6	633.3	781.2	876.0	815.4	754.7	743.3	720.5
77.5°	6587.3	4167.8	549.9	546.1	576.4	716.8	819.1	762.3	701.6	678.8	663.7
80°	3788.6	2044.1	474.0	493.0	523.3	652.3	750.9	701.6	644.7	610.6	587.8
82.5°	1448.7	713.0	417.2	428.5	462.7	584.0	682.6	640.9	584.0	614.4	515.8
85°	470.3	390.6	341.3	352.7	386.8	485.4	603.0	568.9	504.4	447.5	413.4
87.5°	208.6	212.4	182.0	201.0	242.7	322.3	439.9	417.2	367.9	307.2	295.8
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)