

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: P399564

Luminaire Tested: **ARCH-L-PA3-160-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-160-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22629 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

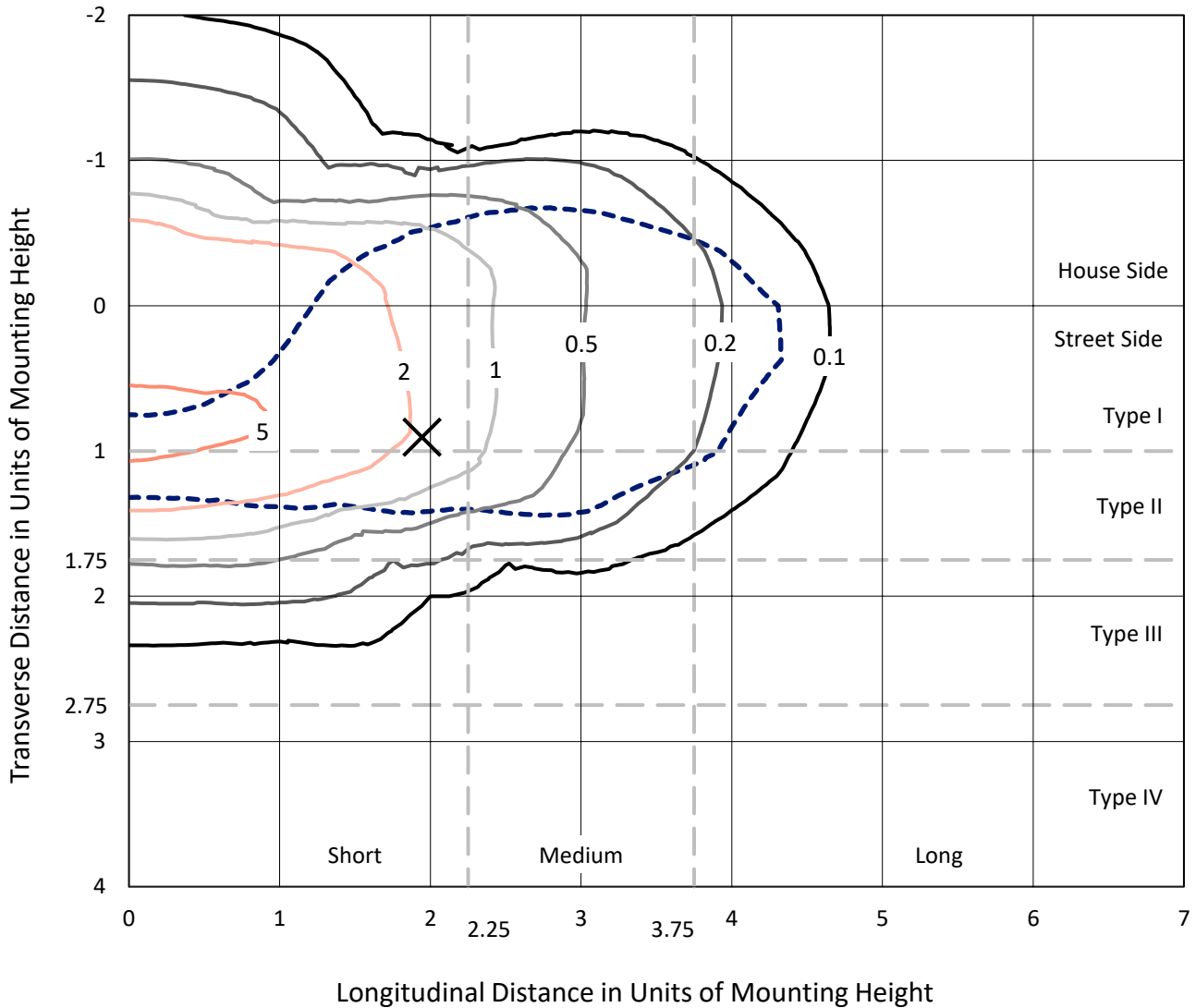
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

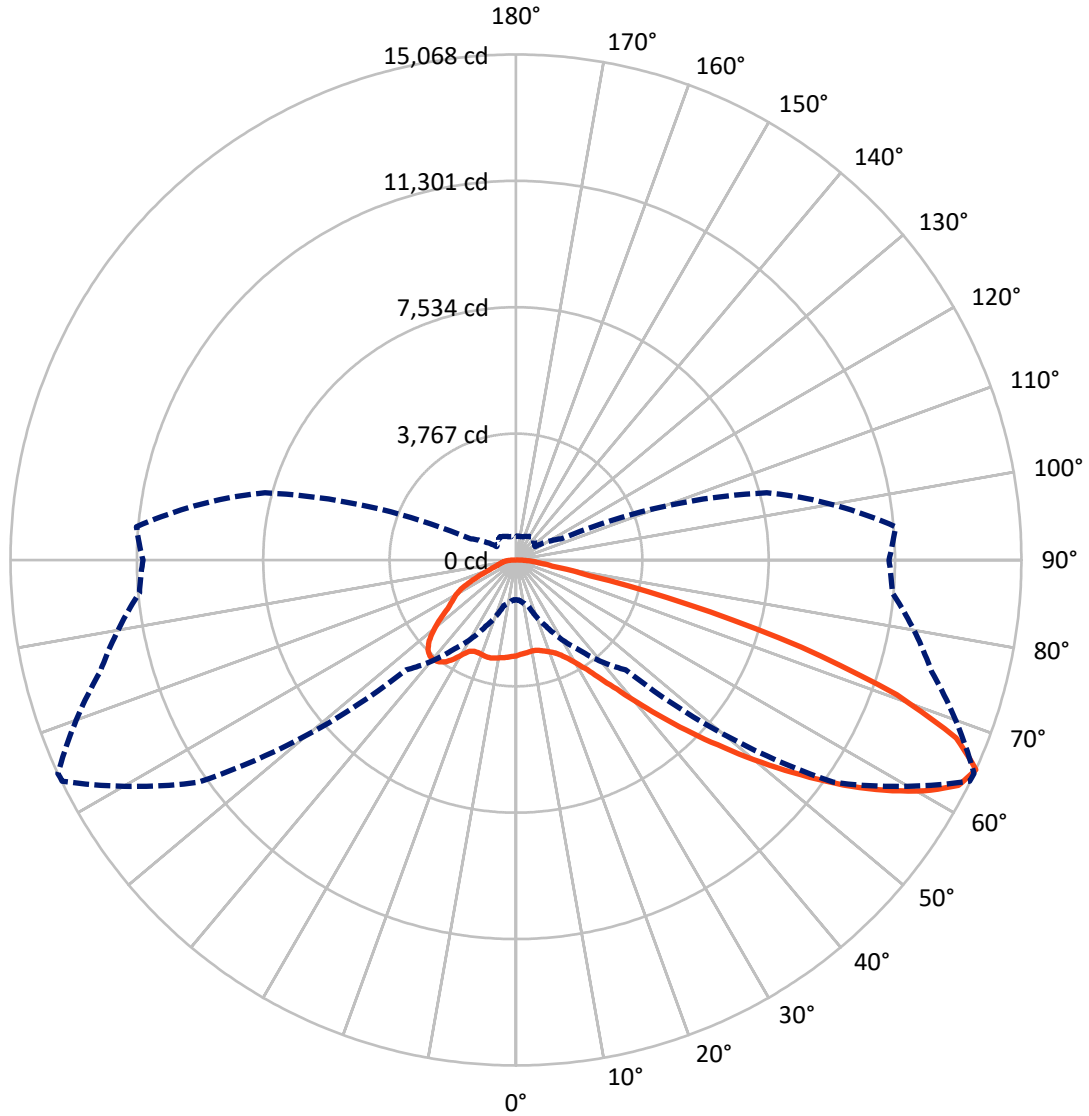
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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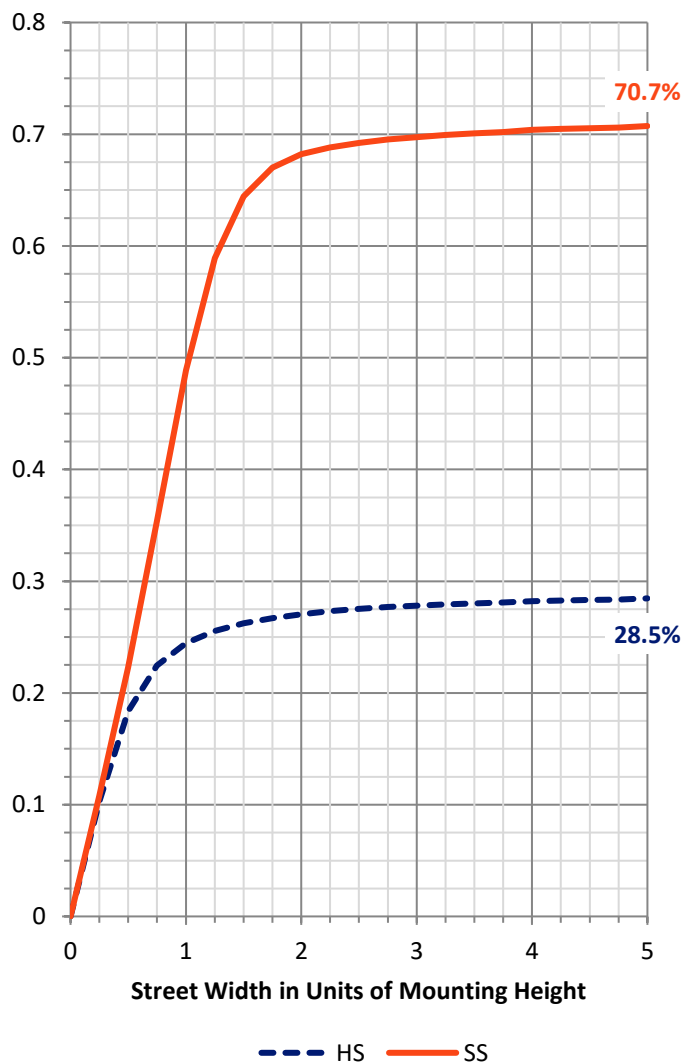
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6542.4	0.0	6542.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	16086.6	0.0	16086.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	22629.0	0.0	22629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	1.2
10°-20°	813.3	3.6
20°-30°	1444.7	6.4
30°-40°	2444.1	10.8
40°-50°	4254.7	18.8
50°-60°	5498.4	24.3
60°-70°	4811.4	21.3
70°-80°	2617.1	11.6
80°-90°	472.9	2.1
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°	22629.0	100.0
0°-180°	22629.0	100.0

Coefficient of Utilization



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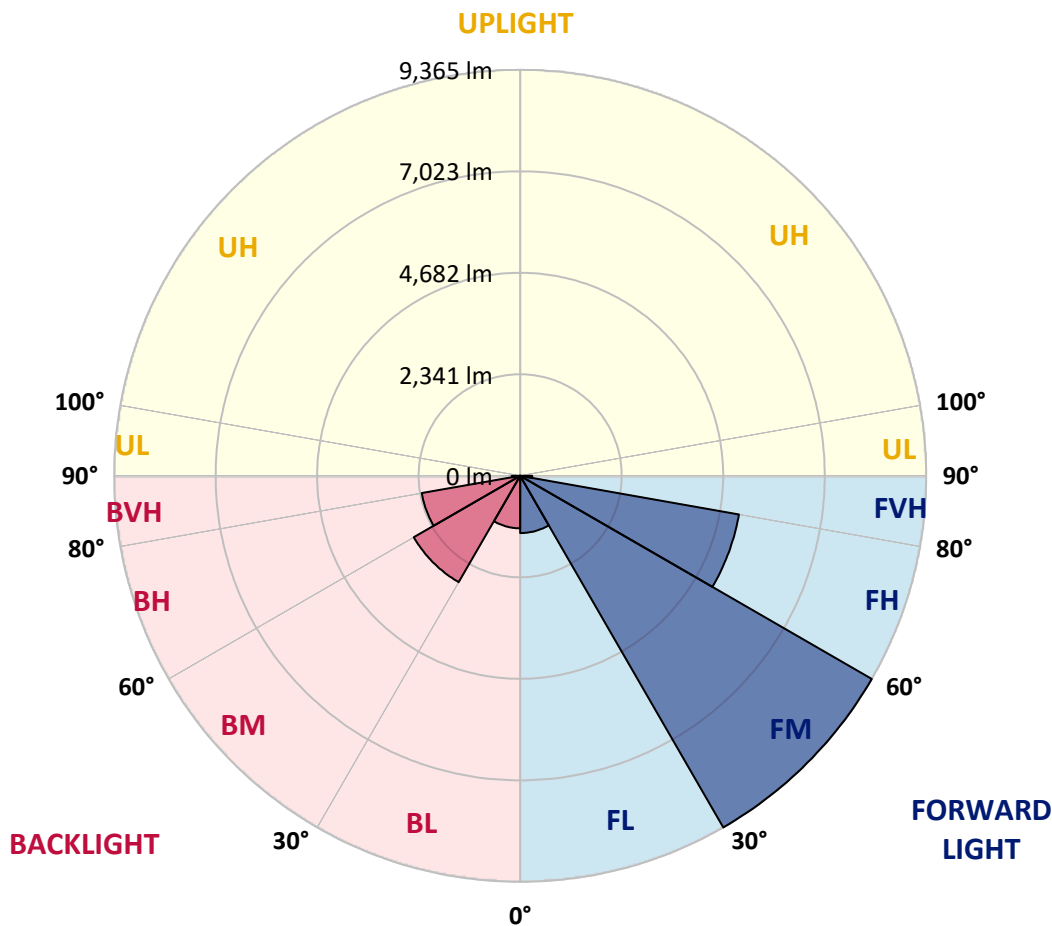
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1320.3	5.8			
FM (30°-60°)	9364.5	41.4			
FH (60°-80°)	5123.5	22.6			G3/7500
FVH (80°-90°)	278.3	1.2			G3/500
BL (0°-30°)	1210.1	5.3	B3/2500		
BM (30°-60°)	2832.7	12.5	B3/5000		
BH (60°-80°)	2305.0	10.2	B3/2500		G3/2500
BVH (80°-90°)	194.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4
2.5°	2808.8	2805.8	2799.8	2805.8	2808.8	2814.7	2811.7	2817.7	2814.7	2823.6	2838.5
5°	2737.3	2731.3	2728.3	2743.2	2752.2	2767.1	2773.0	2793.9	2790.9	2805.8	2829.6
7.5°	2656.9	2656.9	2653.9	2671.7	2683.7	2710.5	2731.3	2767.1	2770.0	2796.8	2823.6
10°	2594.3	2597.3	2594.3	2609.2	2627.1	2659.8	2695.6	2746.2	2749.2	2787.9	2814.7
12.5°	2570.5	2570.5	2570.5	2591.3	2615.2	2659.8	2701.5	2755.1	2761.1	2802.8	2826.6
15°	2603.2	2606.2	2600.3	2621.1	2647.9	2701.5	2740.3	2796.8	2802.8	2841.5	2856.4
17.5°	2719.4	2731.3	2716.4	2728.3	2722.4	2764.1	2799.8	2856.4	2859.4	2892.2	2898.1
20°	2948.7	2960.7	2936.8	2921.9	2868.3	2865.3	2880.2	2924.9	2924.9	2945.8	2930.9
22.5°	3303.2	3315.1	3273.4	3216.8	3088.7	3026.2	2993.4	3014.3	3011.3	3020.2	2981.5
25°	3773.8	3770.8	3720.2	3615.9	3410.4	3258.5	3178.1	3145.3	3145.3	3127.5	3079.8
27.5°	4357.6	4312.9	4223.6	4098.5	3812.5	3601.0	3428.3	3344.9	3330.0	3276.4	3187.0
30°	4980.1	4947.3	4819.3	4637.6	4307.0	4035.9	3750.0	3583.2	3574.2	3458.1	3324.0
32.5°	5712.8	5659.2	5516.2	5298.8	4902.7	4521.4	4164.0	3910.8	3895.9	3711.3	3526.6
35°	6654.0	6609.4	6332.4	6114.9	5605.6	5105.2	4682.3	4345.7	4333.8	4107.4	3872.1
37.5°	7782.9	7666.7	7398.7	6990.6	6454.5	5861.8	5325.6	4902.7	4887.8	4637.6	4339.7
40°	8789.7	8685.4	8447.1	8071.8	7497.0	6838.7	6112.0	5599.6	5584.8	5280.9	4905.6
42.5°	9534.3	9462.8	9307.9	9090.5	8679.4	8280.3	7115.7	6442.6	6415.8	6022.6	5555.0
45°	9966.2	9909.6	9820.2	9873.8	9867.9	9793.4	8313.1	7446.3	7360.0	6850.6	6278.7
47.5°	9861.9	9811.3	9847.0	10264.0	10838.9	11270.8	9707.0	8473.9	8357.8	7693.6	7050.2
50°	9108.4	9129.2	9316.9	10115.1	11404.8	12363.9	11252.9	9644.5	9489.6	8542.4	7782.9
52.5°	7735.3	7785.9	8241.6	9358.6	11342.3	13072.8	12649.8	10853.8	10648.3	9370.5	8450.1
55°	6144.7	6272.8	6862.5	8036.1	10526.1	13123.4	13704.2	12069.0	11842.6	10147.9	9030.9
57.5°	4545.2	4735.9	5418.0	6496.2	8962.4	12322.2	14231.4	13230.6	12956.6	10919.3	9644.5
60°	2883.2	2999.4	3785.7	5057.5	6859.6	10362.3	14162.9	14219.5	13981.2	11687.8	10284.9
62.5°	1840.7	1897.3	2293.5	3607.0	4795.4	7672.7	13415.3	14967.1	14806.3	12387.7	10892.5
65°	1182.5	1206.3	1408.8	2219.0	3264.5	4631.6	11553.7	15047.6	15068.4	12825.6	11267.8
67.5°	962.1	974.0	1048.4	1370.1	2308.4	2558.6	8048.0	13903.8	14157.0	12712.4	11139.7
70°	875.7	890.6	968.0	1093.1	1787.1	1766.3	3895.9	11634.2	12048.2	12060.1	10570.8
72.5°	738.7	759.5	863.8	1033.6	1382.0	1394.0	1650.1	8286.3	8896.9	10779.3	9716.0
75°	616.6	628.5	717.8	911.4	1170.6	1114.0	1158.6	4393.3	5275.0	8643.7	8807.5
77.5°	500.4	512.3	577.8	726.8	1039.5	866.8	911.4	1819.9	2248.8	5867.7	7199.1
80°	357.4	369.3	443.8	565.9	786.3	780.4	676.1	1003.8	1090.1	3172.1	4676.3
82.5°	256.2	265.1	336.6	405.1	545.1	783.4	509.3	682.1	714.8	1405.9	1885.4
85°	172.8	172.8	232.3	268.1	351.5	494.4	411.0	461.7	482.5	667.2	509.3
87.5°	74.5	74.5	125.1	137.0	184.7	229.3	306.8	232.3	238.3	360.4	208.5
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°	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4	2859.4
2.5°	2847.5	2850.5	2856.4	2874.3	2886.2	2904.1	2913.0	2924.9	2924.9	2919.0	2921.9
5°	2841.5	2850.5	2871.3	2904.1	2924.9	2957.7	2981.5	2999.4	3005.3	2999.4	3002.4
7.5°	2838.5	2853.4	2889.2	2936.8	2966.6	3008.3	3041.1	3061.9	3076.8	3070.9	3073.8
10°	2829.6	2853.4	2898.1	2957.7	3002.4	3044.1	3073.8	3082.8	3091.7	3085.8	3082.8
12.5°	2841.5	2868.3	2916.0	2987.5	3038.1	3070.9	3079.8	3064.9	3044.1	3032.1	3029.2
15°	2865.3	2892.2	2939.8	3014.3	3059.0	3070.9	3050.0	3002.4	2954.7	2927.9	2924.9
17.5°	2898.1	2916.0	2954.7	3020.2	3056.0	3041.1	2999.4	2942.8	2907.0	2886.2	2889.2
20°	2919.0	2919.0	2948.7	2999.4	3029.2	3017.3	2966.6	2904.1	2847.5	2820.7	2811.7
22.5°	2948.7	2933.9	2936.8	2981.5	3023.2	3005.3	2898.1	2787.9	2707.5	2677.7	2674.7
25°	3029.2	2987.5	2960.7	2987.5	3085.8	2939.8	2725.4	2597.3	2522.8	2496.0	2499.0
27.5°	3127.5	3070.9	3014.3	3059.0	3136.4	2790.9	2504.9	2359.0	2314.3	2293.5	2302.4
30°	3225.8	3151.3	3076.8	3237.7	3100.7	2558.6	2222.0	2079.0	2040.3	2025.4	2037.3
32.5°	3407.4	3285.3	3196.0	3475.9	2990.4	2293.5	1915.2	1784.1	1748.4	1730.5	1724.6
35°	3711.3	3556.4	3467.0	3684.4	2835.6	1998.6	1635.2	1542.9	1504.2	1465.4	1459.5
37.5°	4149.1	3961.4	3881.0	3803.6	2618.1	1706.7	1420.8	1358.2	1301.6	1242.0	1239.1
40°	4673.3	4429.1	4369.5	3857.2	2317.3	1432.7	1271.8	1212.3	1140.8	1084.2	1087.2
42.5°	5278.0	4965.2	4837.1	3842.3	1945.0	1286.7	1164.6	1099.1	1036.5	985.9	982.9
45°	5924.3	5569.9	5275.0	3738.1	1575.6	1185.5	1099.1	1021.6	959.1	902.5	896.5
47.5°	6639.2	6243.0	5680.1	3535.5	1301.6	1114.0	1060.4	950.2	893.6	857.8	857.8
50°	7360.0	6886.4	6052.4	3228.7	1140.8	1060.4	1003.8	911.4	866.8	837.0	837.0
52.5°	7976.5	7556.5	6359.2	2862.4	1039.5	1015.7	965.0	893.6	845.9	819.1	816.1
55°	8575.2	8179.1	6633.2	2499.0	956.1	956.1	956.1	878.7	825.1	801.2	798.2
57.5°	9170.9	8834.3	6919.1	2260.7	881.6	905.5	938.2	860.8	807.2	786.3	783.4
60°	9844.1	9620.7	7249.8	2093.9	816.1	851.9	914.4	839.9	777.4	759.5	756.5
62.5°	10558.9	10558.9	7550.6	1858.6	756.5	807.2	878.7	813.1	750.6	735.7	732.7
65°	11118.9	11360.1	7744.2	1507.1	697.0	762.5	837.0	777.4	714.8	711.9	705.9
67.5°	11184.4	11562.7	7622.1	1137.8	643.4	714.8	795.3	738.7	679.1	679.1	670.2
70°	10713.8	11098.0	7240.8	851.9	604.6	667.2	741.7	691.0	634.4	640.4	625.5
72.5°	9927.5	10022.8	6293.6	673.1	560.0	616.6	676.1	637.4	586.8	586.8	565.9
75°	8890.9	8360.7	4572.0	562.9	506.4	557.0	610.6	577.8	533.2	518.3	506.4
77.5°	7077.0	6058.3	2656.9	485.5	461.7	500.4	536.1	512.3	473.6	440.8	440.8
80°	4312.9	3550.4	1173.5	420.0	408.1	437.8	461.7	434.9	402.1	369.3	360.4
82.5°	1641.2	1370.1	568.9	360.4	357.4	375.3	393.2	366.4	342.5	327.6	283.0
85°	449.8	414.0	390.2	300.8	294.9	291.9	312.7	300.8	268.1	220.4	196.6
87.5°	169.8	193.6	211.5	184.7	196.6	181.7	208.5	190.6	169.8	110.2	98.3
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)