

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: P399897

Luminaire Tested: **ARCH-L-PA3-200-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399897
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-PA3-200-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22988 lumens
Efficiency: N/A
Efficacy: 114.4 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

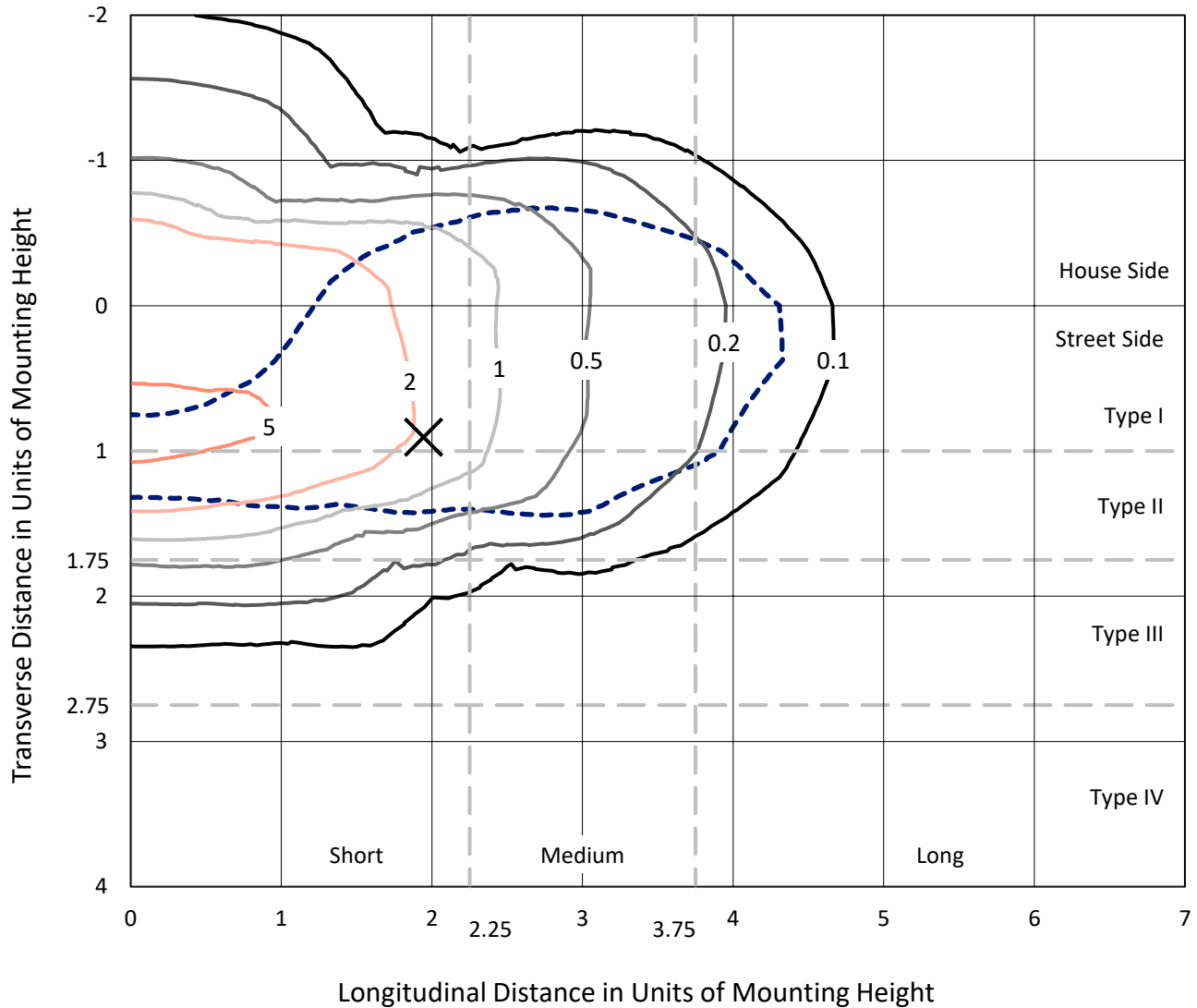
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

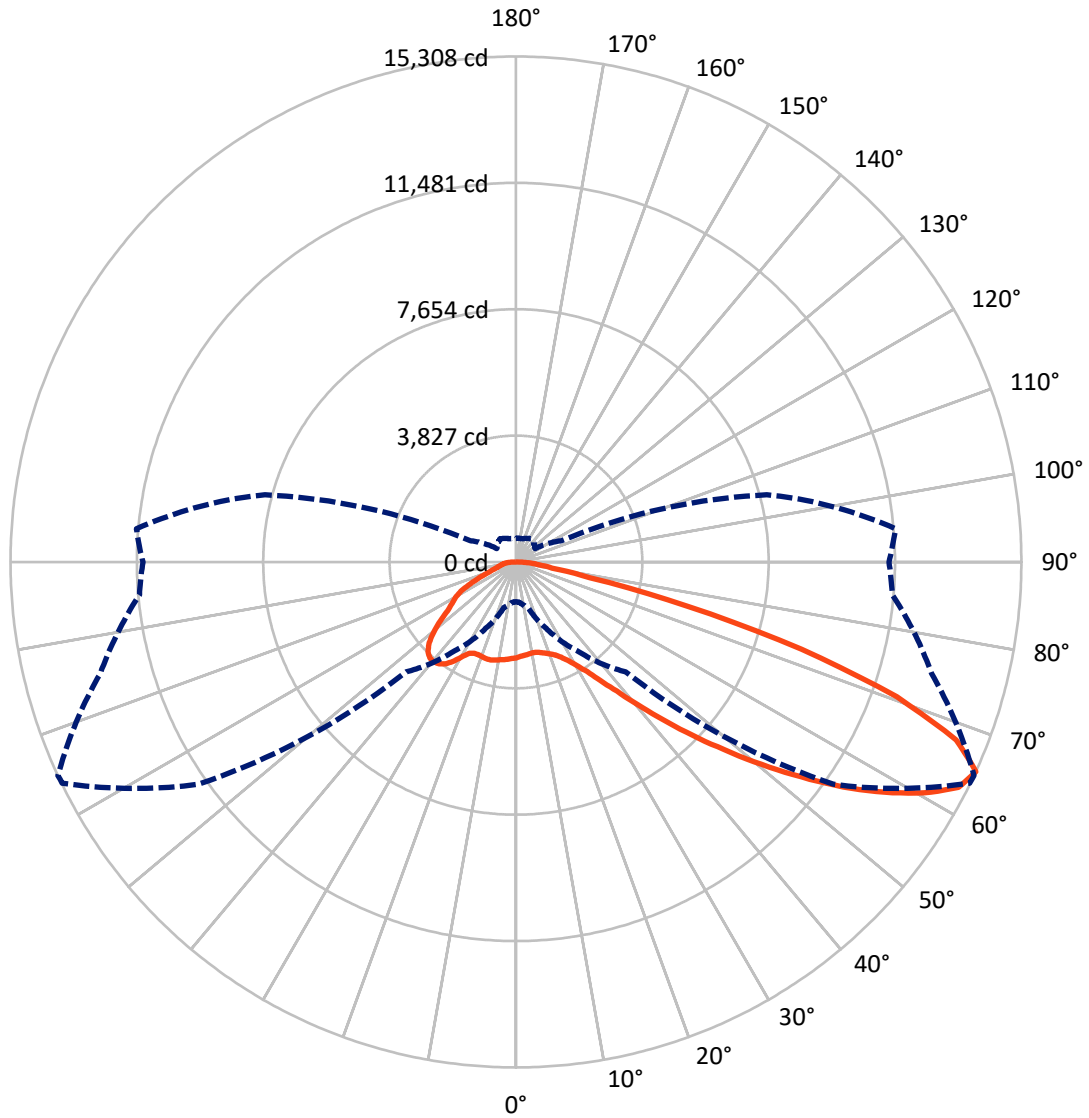
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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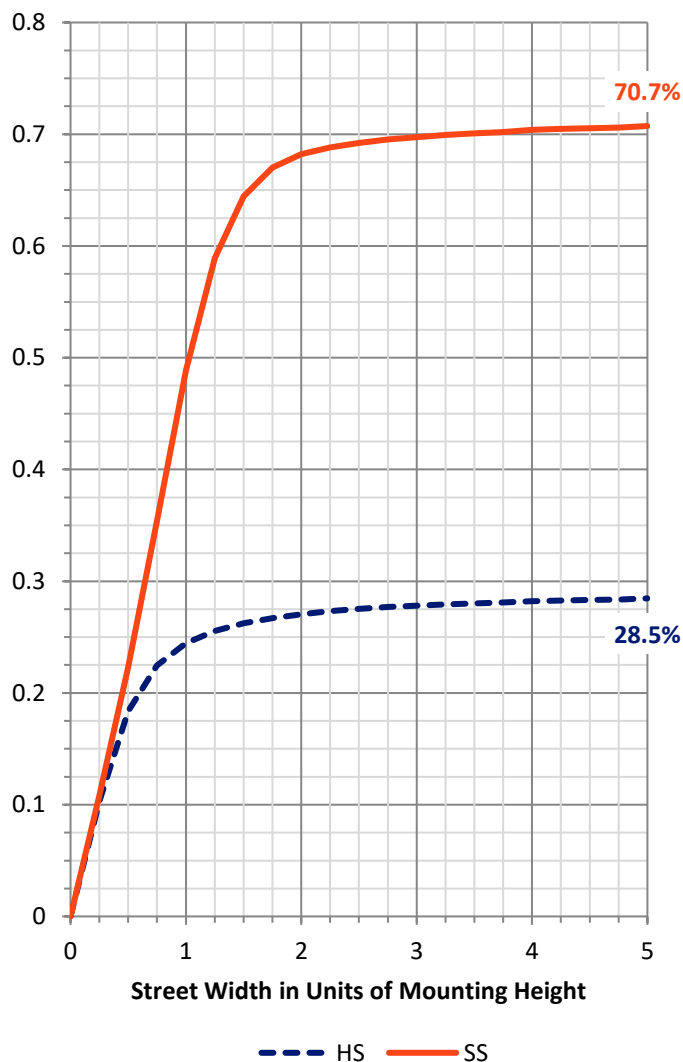
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6646.2	0.0	6646.2
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	16341.8	0.0	16341.8
	% Fixture	71.1	0.0	71.1
Total	Lumens	22988.0	0.0	22988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.2
10°-20°	826.2	3.6
20°-30°	1467.6	6.4
30°-40°	2482.9	10.8
40°-50°	4322.2	18.8
50°-60°	5585.6	24.3
60°-70°	4887.8	21.3
70°-80°	2658.6	11.6
80°-90°	480.4	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°	22988.0	100.0
0°-180°	22988.0	100.0

Coefficient of Utilization



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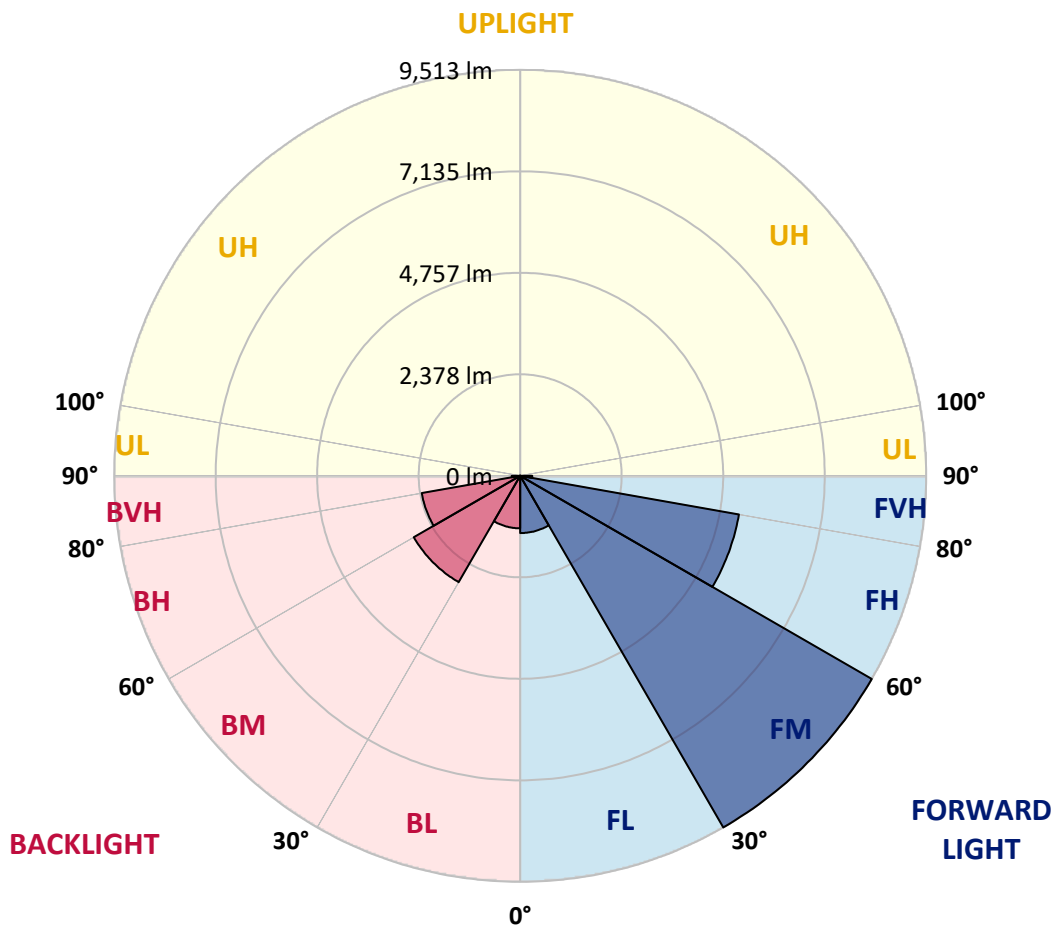
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1341.3	5.8			
FM (30°-60°)	9513.1	41.4			
FH (60°-80°)	5204.8	22.6			G3/7500
FVH (80°-90°)	282.7	1.2			G3/500
BL (0°-30°)	1229.3	5.3	B3/2500		
BM (30°-60°)	2877.6	12.5	B3/5000		
BH (60°-80°)	2341.5	10.2	B3/2500		G3/2500
BVH (80°-90°)	197.7	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°	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8
2.5°	2853.3	2850.3	2844.2	2850.3	2853.3	2859.4	2856.3	2862.4	2859.4	2868.4	2883.6
5°	2780.7	2774.6	2771.6	2786.7	2795.8	2811.0	2817.0	2838.2	2835.2	2850.3	2874.5
7.5°	2699.0	2699.0	2696.0	2714.1	2726.2	2753.5	2774.6	2811.0	2814.0	2841.2	2868.4
10°	2635.5	2638.5	2635.5	2650.6	2668.7	2702.0	2738.3	2789.8	2792.8	2832.1	2859.4
12.5°	2611.3	2611.3	2611.3	2632.4	2656.6	2702.0	2744.4	2798.9	2804.9	2847.3	2871.5
15°	2644.5	2647.6	2641.5	2662.7	2689.9	2744.4	2783.7	2841.2	2847.3	2886.6	2901.7
17.5°	2762.5	2774.6	2759.5	2771.6	2765.6	2807.9	2844.2	2901.7	2904.8	2938.0	2944.1
20°	2995.5	3007.6	2983.4	2968.3	2913.8	2910.8	2925.9	2971.3	2971.3	2992.5	2977.4
22.5°	3355.6	3367.7	3325.3	3267.8	3137.7	3074.2	3040.9	3062.1	3059.1	3068.1	3028.8
25°	3833.7	3830.6	3779.2	3673.3	3464.5	3310.2	3228.5	3195.2	3195.2	3177.1	3128.7
27.5°	4426.7	4381.3	4290.6	4163.5	3873.0	3658.2	3482.7	3398.0	3382.8	3328.4	3237.6
30°	5059.1	5025.8	4895.7	4711.1	4375.3	4099.9	3809.5	3640.0	3630.9	3512.9	3376.8
32.5°	5803.5	5749.0	5603.8	5382.9	4980.4	4593.1	4230.0	3972.9	3957.7	3770.1	3582.5
35°	6759.6	6714.2	6432.8	6211.9	5694.5	5186.2	4756.5	4414.6	4402.5	4172.6	3933.5
37.5°	7906.4	7788.4	7516.1	7101.5	6556.9	5954.7	5410.1	4980.4	4965.3	4711.1	4408.6
40°	8929.1	8823.2	8581.1	8199.9	7615.9	6947.2	6208.9	5688.5	5673.4	5364.7	4983.5
42.5°	9685.5	9612.9	9455.6	9234.7	8817.1	8411.7	7228.6	6544.8	6517.5	6118.1	5643.1
45°	10124.3	10066.8	9976.0	10030.5	10024.4	9948.8	8445.0	7564.5	7476.7	6959.3	6378.4
47.5°	10018.4	9966.9	10003.3	10426.9	11010.8	11449.6	9861.0	8608.4	8490.4	7815.6	7162.0
50°	9252.9	9274.0	9464.7	10275.6	11585.7	12560.0	11431.4	9797.5	9640.2	8678.0	7906.4
52.5°	7858.0	7909.4	8372.4	9507.0	11522.2	13280.2	12850.5	11026.0	10817.2	9519.1	8584.2
55°	6242.2	6372.3	6971.4	8163.6	10693.1	13331.6	13921.6	12260.5	12030.5	10308.9	9174.2
57.5°	4617.4	4811.0	5503.9	6599.2	9104.6	12517.7	14457.2	13440.5	13162.2	11092.5	9797.5
60°	2929.0	3047.0	3845.8	5137.8	6968.4	10526.7	14387.6	14445.1	14203.0	11873.2	10448.0
62.5°	1869.9	1927.4	2329.9	3664.2	4871.5	7794.4	13628.1	15204.6	15041.2	12584.2	11065.3
65°	1201.2	1225.4	1431.2	2254.2	3316.3	4705.1	11737.0	15286.3	15307.5	13029.0	11446.6
67.5°	977.3	989.4	1065.1	1391.9	2345.0	2599.2	8175.7	14124.4	14381.6	12914.1	11316.4
70°	889.6	904.7	983.4	1110.5	1815.5	1794.3	3957.7	11818.7	12239.3	12251.4	10738.5
72.5°	750.4	771.6	877.5	1049.9	1404.0	1416.1	1676.3	8417.7	9038.0	10950.3	9870.1
75°	626.3	638.4	729.2	925.9	1189.1	1131.6	1177.0	4463.0	5358.7	8780.8	8947.3
77.5°	508.3	520.4	587.0	738.3	1056.0	880.5	925.9	1848.8	2284.5	5960.8	7313.3
80°	363.1	375.2	450.8	574.9	798.8	792.8	686.9	1019.7	1107.4	3222.5	4750.5
82.5°	260.2	269.3	341.9	411.5	553.7	795.8	517.4	692.9	726.2	1428.2	1915.3
85°	175.5	175.5	236.0	272.3	357.0	502.3	417.6	469.0	490.2	677.8	517.4
87.5°	75.6	75.6	127.1	139.2	187.6	233.0	311.7	236.0	242.1	366.1	211.8
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°	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8	2904.8
2.5°	2892.7	2895.7	2901.7	2919.9	2932.0	2950.1	2959.2	2971.3	2971.3	2965.3	2968.3
5°	2886.6	2895.7	2916.9	2950.1	2971.3	3004.6	3028.8	3047.0	3053.0	3047.0	3050.0
7.5°	2883.6	2898.7	2935.0	2983.4	3013.7	3056.0	3089.3	3110.5	3125.6	3119.6	3122.6
10°	2874.5	2898.7	2944.1	3004.6	3050.0	3092.4	3122.6	3131.7	3140.8	3134.7	3131.7
12.5°	2886.6	2913.8	2962.2	3034.9	3086.3	3119.6	3128.7	3113.5	3092.4	3080.3	3077.2
15°	2910.8	2938.0	2986.5	3062.1	3107.5	3119.6	3098.4	3050.0	3001.6	2974.3	2971.3
17.5°	2944.1	2962.2	3001.6	3068.1	3104.5	3089.3	3047.0	2989.5	2953.2	2932.0	2935.0
20°	2965.3	2965.3	2995.5	3047.0	3077.2	3065.1	3013.7	2950.1	2892.7	2865.4	2856.3
22.5°	2995.5	2980.4	2983.4	3028.8	3071.2	3053.0	2944.1	2832.1	2750.4	2720.2	2717.2
25°	3077.2	3034.9	3007.6	3034.9	3134.7	2986.5	2768.6	2638.5	2562.8	2535.6	2538.6
27.5°	3177.1	3119.6	3062.1	3107.5	3186.2	2835.2	2544.7	2396.4	2351.0	2329.9	2338.9
30°	3276.9	3201.3	3125.6	3289.0	3149.8	2599.2	2257.2	2112.0	2072.7	2057.5	2069.6
32.5°	3461.5	3337.4	3246.7	3531.1	3037.9	2329.9	1945.6	1812.4	1776.1	1758.0	1751.9
35°	3770.1	3612.8	3522.0	3742.9	2880.5	2030.3	1661.2	1567.4	1528.0	1488.7	1482.6
37.5°	4214.9	4024.3	3942.6	3863.9	2659.7	1733.8	1443.3	1379.8	1322.3	1261.8	1258.7
40°	4747.5	4499.3	4438.8	3918.4	2354.1	1455.4	1292.0	1231.5	1158.9	1101.4	1104.4
42.5°	5361.7	5044.0	4913.9	3903.3	1975.8	1307.1	1183.1	1116.5	1053.0	1001.5	998.5
45°	6018.3	5658.2	5358.7	3797.4	1600.6	1204.3	1116.5	1037.8	974.3	916.8	910.8
47.5°	6744.5	6342.0	5770.2	3591.6	1322.3	1131.6	1077.2	965.2	907.7	871.4	871.4
50°	7476.7	6995.6	6148.4	3280.0	1158.9	1077.2	1019.7	925.9	880.5	850.2	850.2
52.5°	8103.1	7676.4	6460.1	2907.8	1056.0	1031.8	980.4	907.7	859.3	832.1	829.1
55°	8711.2	8308.8	6738.4	2538.6	971.3	971.3	971.3	892.6	838.1	813.9	810.9
57.5°	9316.4	8974.5	7028.9	2296.6	895.6	919.8	953.1	874.5	820.0	798.8	795.8
60°	10000.2	9773.3	7364.8	2127.1	829.1	865.4	928.9	853.3	789.7	771.6	768.5
62.5°	10726.4	10726.4	7670.4	1888.1	768.5	820.0	892.6	826.0	762.5	747.4	744.3
65°	11295.3	11540.4	7867.0	1531.0	708.0	774.6	850.2	789.7	726.2	723.2	717.1
67.5°	11361.8	11746.1	7743.0	1155.9	653.6	726.2	807.9	750.4	689.9	689.9	680.8
70°	10883.8	11274.1	7355.7	865.4	614.2	677.8	753.4	702.0	644.5	650.5	635.4
72.5°	10084.9	10181.8	6393.5	683.8	568.8	626.3	686.9	647.5	596.1	596.1	574.9
75°	9032.0	8493.4	4644.6	571.9	514.4	565.8	620.3	587.0	541.6	526.5	514.4
77.5°	7189.3	6154.5	2699.0	493.2	469.0	508.3	544.6	520.4	481.1	447.8	447.8
80°	4381.3	3606.7	1192.2	426.6	414.5	444.8	469.0	441.8	408.5	375.2	366.1
82.5°	1667.2	1391.9	577.9	366.1	363.1	381.2	399.4	372.2	348.0	332.8	287.4
85°	456.9	420.6	396.4	305.6	299.6	296.5	317.7	305.6	272.3	223.9	199.7
87.5°	172.5	196.7	214.8	187.6	199.7	184.6	211.8	193.7	172.5	112.0	99.9
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)