

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: P399851

Luminaire Tested: **ARCH-L-PA3-200-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18259 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

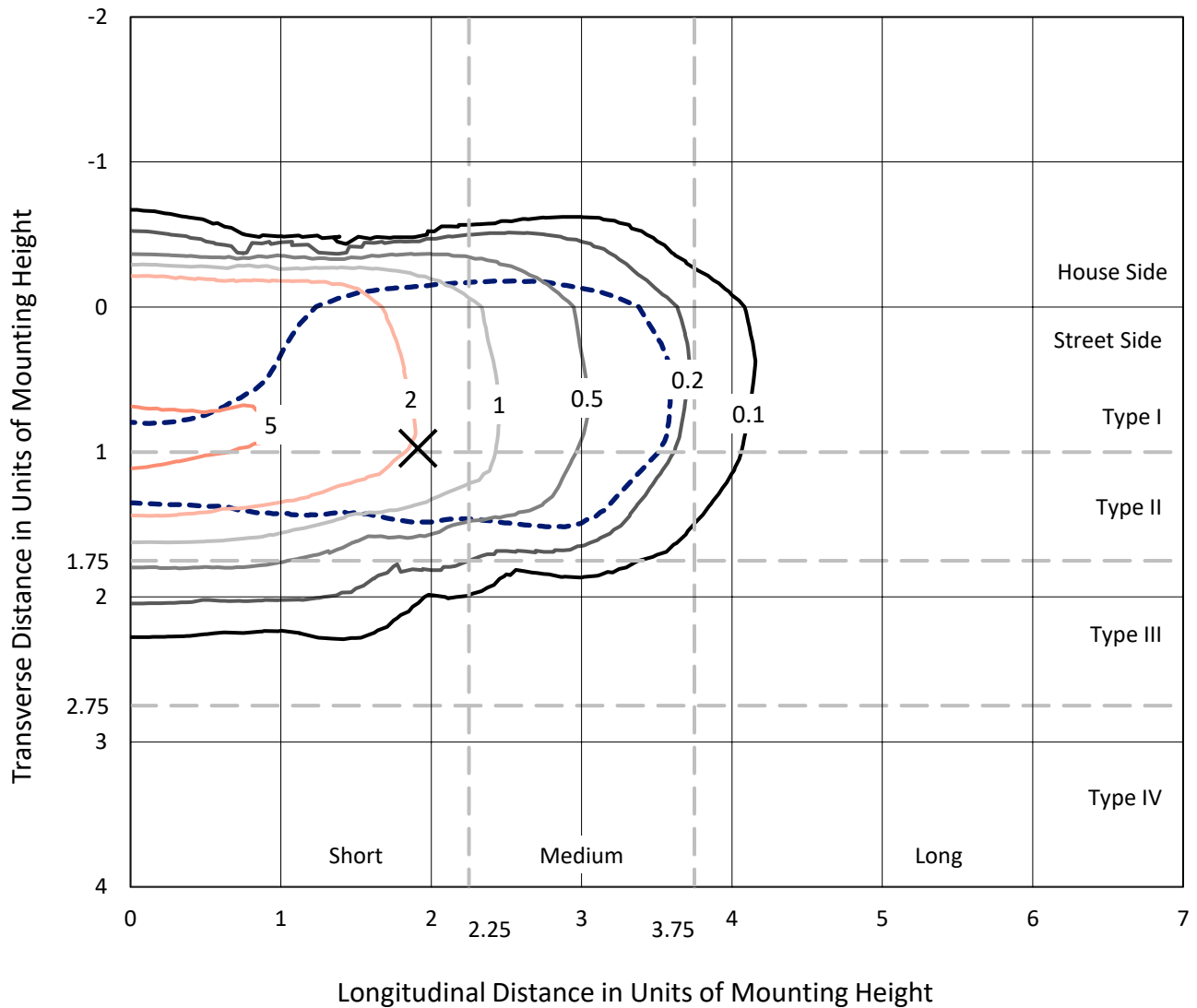
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

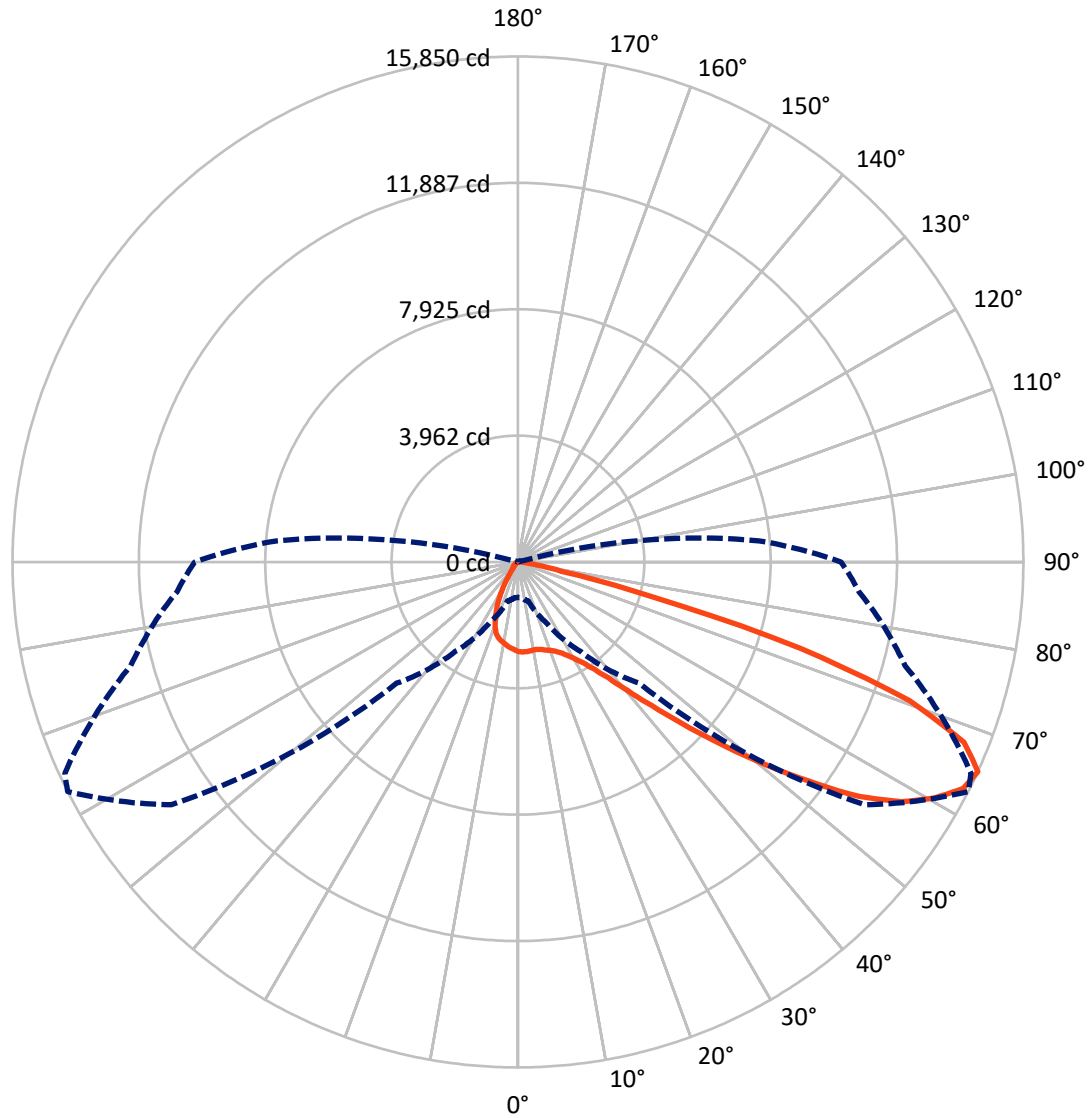
✕ Max cd
 - - - 1/2 Max cd



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 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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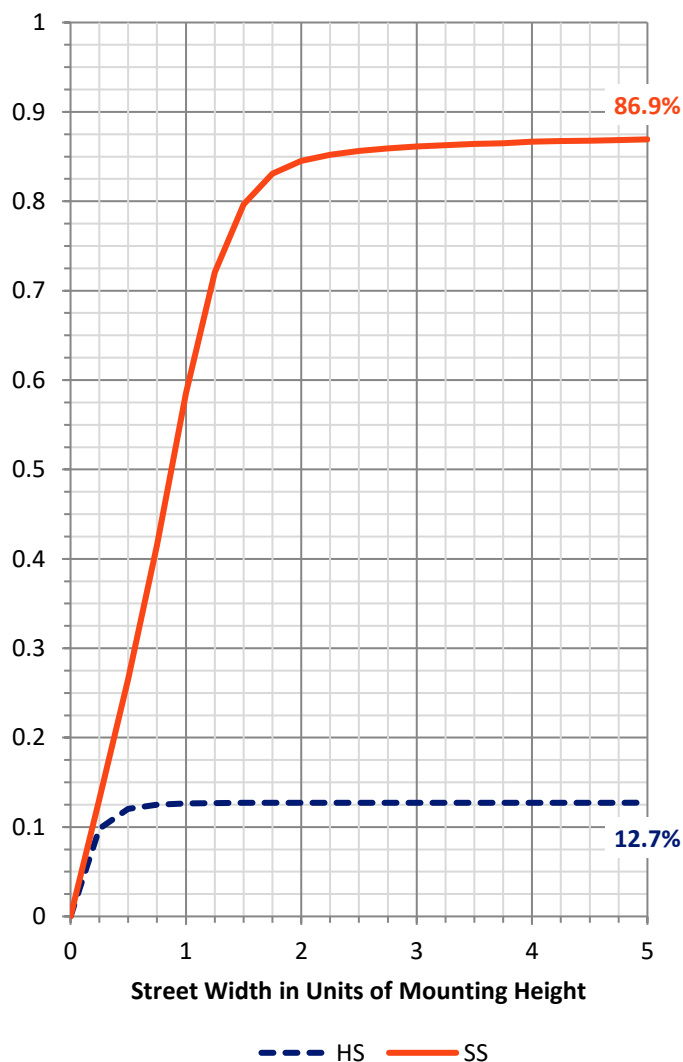
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2349.9	0.0	2349.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	15909.1	0.0	15909.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	18259.0	0.0	18259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	1.4
10°-20°	633.1	3.5
20°-30°	938.5	5.1
30°-40°	1742.5	9.5
40°-50°	3691.4	20.2
50°-60°	5104.2	28.0
60°-70°	4086.1	22.4
70°-80°	1697.7	9.3
80°-90°	109.0	0.6
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°	18259.0	100.0
0°-180°	18259.0	100.0

Coefficient of Utilization



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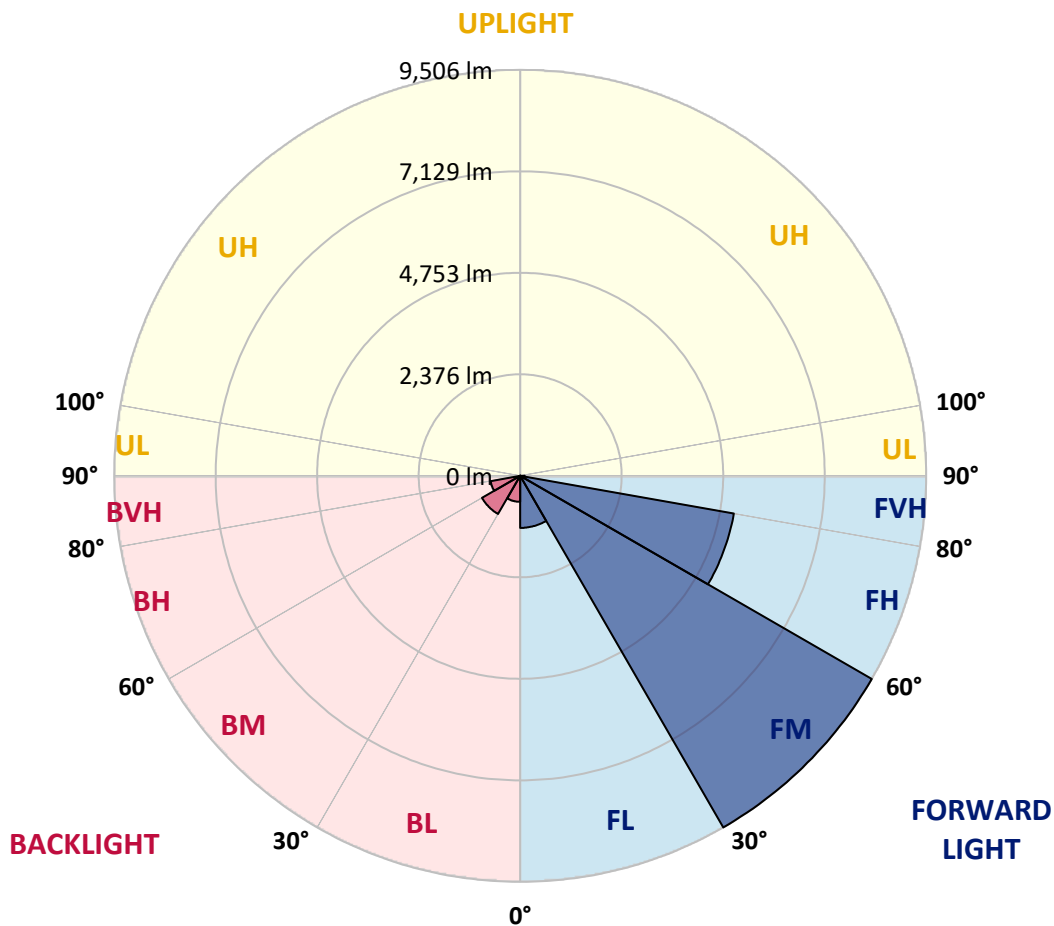
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.3	6.7			
FM (30°-60°)	9505.7	52.1			
FH (60°-80°)	5080.1	27.8			G3/7500
FVH (80°-90°)	104.0	0.6			G2/225
BL (0°-30°)	609.0	3.3	B2/1000		
BM (30°-60°)	1032.3	5.7	B2/2500		
BH (60°-80°)	703.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	2861.1	2854.2	2847.3	2843.8	2843.8	2840.4	2826.6	2823.1	2816.3	2809.4	2802.5
5°	2833.5	2823.1	2819.7	2823.1	2826.6	2833.5	2826.6	2826.6	2819.7	2812.8	2799.0
7.5°	2764.5	2757.7	2761.1	2771.4	2774.9	2799.0	2802.5	2812.8	2812.8	2805.9	2795.6
10°	2681.8	2678.4	2678.4	2695.6	2712.8	2747.3	2771.4	2799.0	2802.5	2802.5	2785.2
12.5°	2619.8	2616.3	2626.7	2647.3	2681.8	2726.6	2768.0	2809.4	2816.3	2819.7	2792.1
15°	2581.9	2581.9	2595.6	2637.0	2685.3	2747.3	2795.6	2850.7	2857.6	2854.2	2816.3
17.5°	2547.4	2550.8	2578.4	2647.3	2702.5	2785.2	2843.8	2905.9	2909.3	2905.9	2843.8
20°	2533.6	2540.5	2581.9	2671.5	2733.5	2826.6	2902.4	2964.5	2967.9	2954.1	2871.4
22.5°	2571.5	2575.0	2626.7	2723.2	2781.8	2885.2	2981.7	3040.3	3043.8	3023.1	2912.8
25°	2702.5	2702.5	2747.3	2830.0	2881.8	2985.2	3088.6	3157.5	3157.5	3133.4	3005.8
27.5°	3009.3	2981.7	2971.4	2995.5	3012.7	3123.0	3233.4	3319.5	3316.1	3281.6	3126.5
30°	3602.2	3533.2	3422.9	3298.8	3236.8	3312.6	3416.0	3526.4	3522.9	3467.8	3274.7
32.5°	4598.4	4498.4	4236.4	3909.0	3643.6	3557.4	3653.9	3774.5	3778.0	3712.5	3512.6
35°	5994.5	5835.9	5367.1	4912.1	4305.4	3977.9	4005.5	4136.5	4177.8	4143.4	3912.4
37.5°	7338.8	7194.0	6745.9	6115.1	5291.3	4622.5	4505.3	4619.1	4667.3	4667.3	4422.6
40°	8693.5	8524.6	8128.2	7493.9	6625.3	5629.1	5208.5	5301.6	5353.3	5363.6	5043.1
42.5°	9779.3	9669.0	9365.7	8872.8	8059.2	7394.0	6222.0	6170.3	6218.5	6180.6	5763.5
45°	10530.8	10444.6	10234.3	10048.2	9651.8	9317.4	7576.7	7228.5	7259.5	7128.5	6573.6
47.5°	10685.9	10589.4	10544.6	10803.1	11085.8	11168.5	9241.6	8486.7	8455.7	8166.1	7414.6
50°	10010.3	10020.6	10186.1	10923.8	12102.7	12847.2	11172.0	9906.9	9793.1	9148.5	8197.1
52.5°	8552.2	8717.6	9134.7	10330.9	12412.9	14067.5	13102.3	11413.2	11237.4	10103.4	8783.1
55°	6690.8	6904.5	7590.4	8965.8	11764.8	14612.1	14729.3	12978.2	12578.4	10820.4	9238.1
57.5°	4974.1	5039.6	5839.3	7094.1	10230.9	14077.8	15563.5	14184.7	13671.1	11392.6	9689.7
60°	3098.9	3140.3	3984.8	5401.6	7749.0	12102.7	15563.5	15015.4	14526.0	11906.2	10103.4
62.5°	1926.9	1940.7	2257.8	3702.2	5267.1	8976.2	14918.9	15660.0	15267.1	12275.0	10458.4
65°	1110.0	1123.7	1272.0	2092.4	3426.4	5374.0	13271.2	15849.6	15673.8	12568.0	10734.2
67.5°	810.1	817.0	875.6	1175.5	2240.6	2761.1	9968.9	15087.8	15308.4	12712.8	10727.3
70°	703.2	713.5	789.4	916.9	1616.7	1696.0	5074.1	13029.9	13646.9	12506.0	10406.7
72.5°	541.2	555.0	668.7	861.8	1185.8	1220.3	1837.3	9272.6	10206.8	11213.3	9527.7
75°	372.3	386.1	499.8	710.1	979.0	913.5	1010.0	4267.5	5384.3	7521.5	7252.6
77.5°	237.8	241.3	313.7	517.1	844.5	648.0	692.9	1392.6	1954.5	3402.3	3422.9
80°	158.6	162.0	193.0	334.4	579.1	599.8	427.4	644.6	706.6	992.8	689.4
82.5°	96.5	96.5	131.0	210.3	351.6	496.4	279.2	337.8	361.9	382.6	179.2
85°	37.9	37.9	79.3	137.9	220.6	231.0	175.8	196.5	206.8	224.1	82.7
87.5°	10.3	10.3	44.8	75.8	96.5	106.9	106.9	96.5	103.4	127.5	41.4
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°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	2799.0	2788.7	2774.9	2761.1	2747.3	2737.0	2726.6	2726.6	2719.7	2709.4	2702.5
5°	2792.1	2774.9	2743.9	2719.7	2681.8	2654.2	2633.6	2616.3	2606.0	2581.9	2578.4
7.5°	2781.8	2761.1	2716.3	2668.0	2606.0	2557.7	2509.5	2475.0	2440.5	2412.9	2406.1
10°	2764.5	2740.4	2674.9	2606.0	2519.8	2430.2	2316.4	2185.4	2064.8	1995.9	1975.2
12.5°	2764.5	2733.5	2647.3	2554.3	2430.2	2209.6	1920.0	1630.5	1406.4	1306.4	1278.9
15°	2781.8	2740.4	2626.7	2499.1	2268.2	1820.1	1351.3	968.6	723.9	648.0	630.8
17.5°	2799.0	2740.4	2595.6	2423.3	1971.7	1320.2	768.7	510.2	430.9	413.6	413.6
20°	2805.9	2733.5	2554.3	2282.0	1575.3	820.4	458.5	382.6	351.6	341.3	341.3
22.5°	2833.5	2737.0	2523.3	2078.6	1144.4	482.6	361.9	320.6	289.6	279.2	279.2
25°	2902.4	2778.3	2530.1	1820.1	734.2	365.4	306.8	265.4	234.4	220.6	220.6
27.5°	3012.7	2871.4	2568.1	1520.2	461.9	313.7	258.5	213.7	189.6	175.8	175.8
30°	3136.8	2974.8	2585.3	1175.5	344.7	265.4	210.3	168.9	151.7	141.3	137.9
32.5°	3354.0	3154.1	2571.5	806.6	282.7	224.1	168.9	134.4	120.6	117.2	117.2
35°	3702.2	3467.8	2543.9	506.7	234.4	179.2	134.4	110.3	100.0	96.5	93.1
37.5°	4174.4	3926.2	2461.2	334.4	193.0	141.3	110.3	93.1	82.7	79.3	79.3
40°	4750.1	4450.2	2302.6	255.1	165.5	113.8	93.1	79.3	72.4	68.9	68.9
42.5°	5408.5	5032.7	2051.0	220.6	137.9	96.5	79.3	65.5	62.0	58.6	58.6
45°	6128.9	5642.9	1702.9	196.5	117.2	79.3	65.5	58.6	51.7	51.7	48.3
47.5°	6894.1	6256.4	1309.9	172.4	100.0	68.9	58.6	48.3	44.8	41.4	41.4
50°	7631.8	6804.5	920.4	148.2	82.7	58.6	48.3	41.4	37.9	34.5	34.5
52.5°	8152.3	7135.4	651.5	127.5	68.9	51.7	37.9	31.0	27.6	27.6	27.6
55°	8569.4	7342.3	455.0	106.9	58.6	44.8	31.0	24.1	24.1	20.7	20.7
57.5°	8962.4	7476.7	334.4	89.6	48.3	34.5	24.1	17.2	17.2	13.8	13.8
60°	9369.1	7549.1	255.1	72.4	41.4	27.6	17.2	13.8	10.3	10.3	10.3
62.5°	9779.3	7593.9	196.5	58.6	34.5	20.7	13.8	10.3	6.9	3.4	3.4
65°	10137.8	7607.7	151.7	44.8	27.6	13.8	10.3	3.4	0.0	0.0	0.0
67.5°	10244.7	7449.1	117.2	34.5	20.7	10.3	6.9	0.0	0.0	0.0	0.0
70°	9955.1	7028.6	89.6	27.6	17.2	6.9	3.4	0.0	0.0	0.0	0.0
72.5°	8834.8	5894.5	68.9	17.2	13.8	6.9	3.4	0.0	0.0	0.0	0.0
75°	6321.9	3143.7	48.3	13.8	10.3	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	2909.3	1216.8	34.5	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0
80°	568.8	303.3	13.8	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	131.0	51.7	6.9	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.8	17.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)