

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: P399779

Luminaire Tested: **ARCH-L-PA3-190-730-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399779  
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-PA3-190-730-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 810mA 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: 17415 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

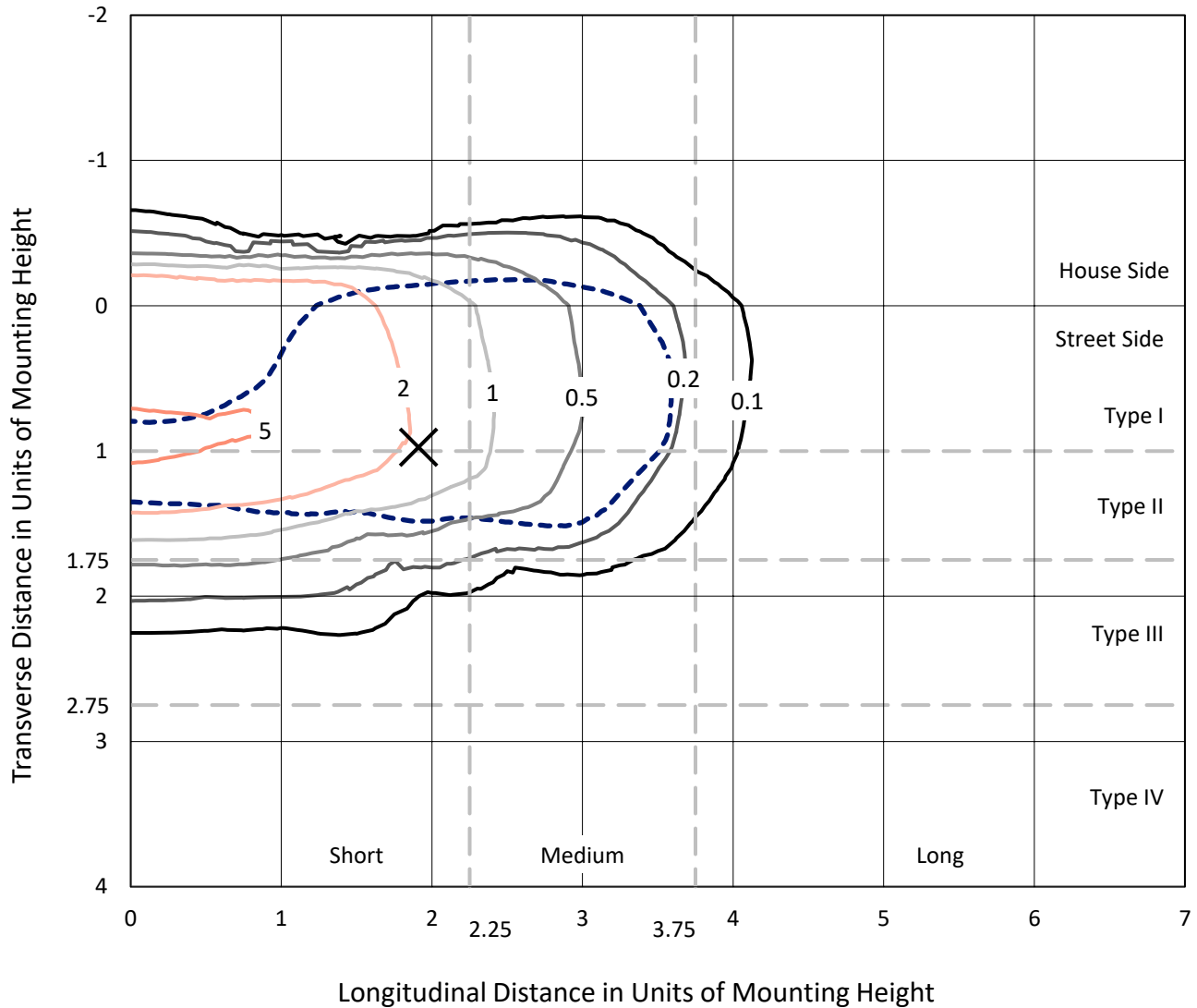
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

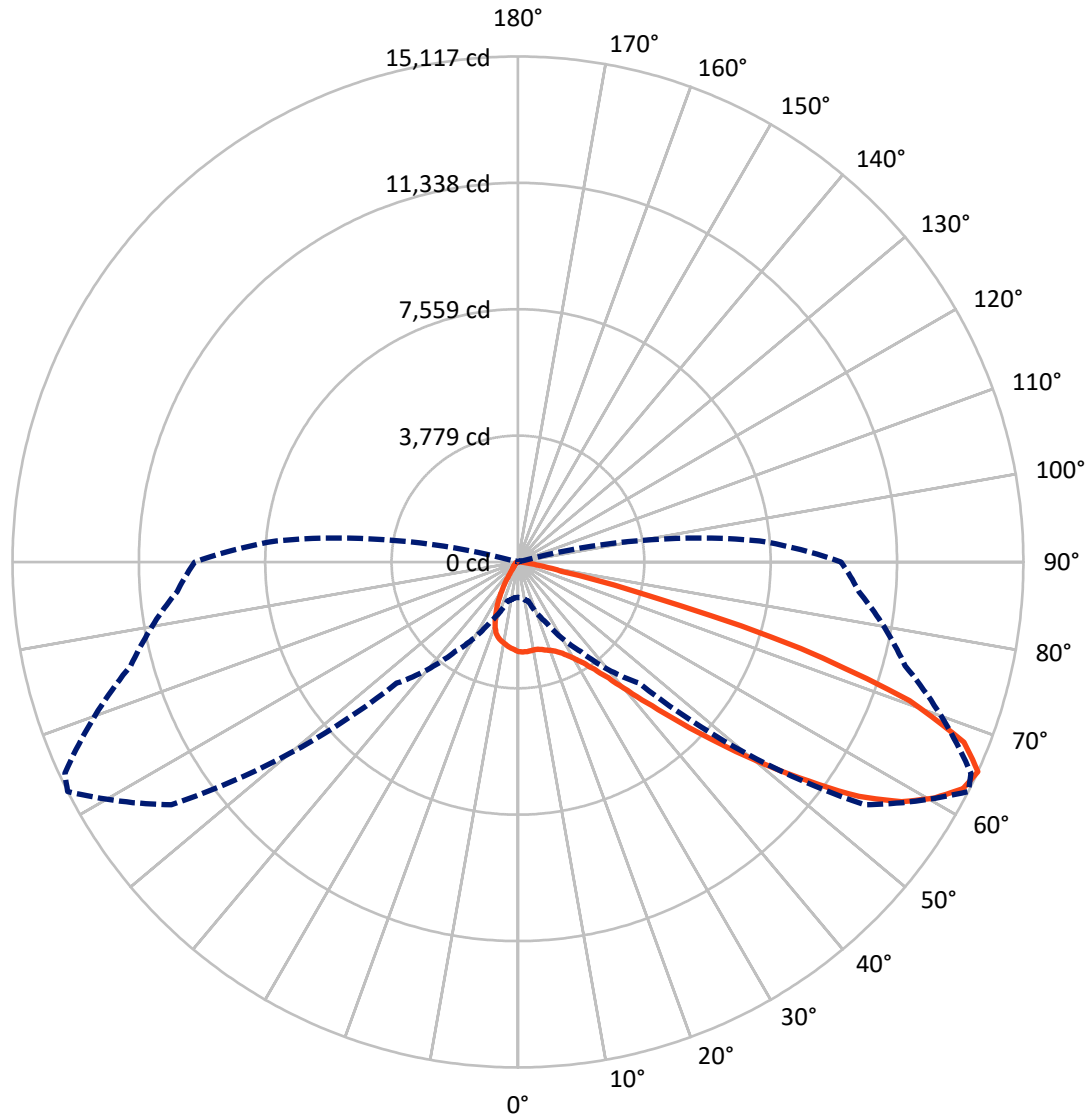
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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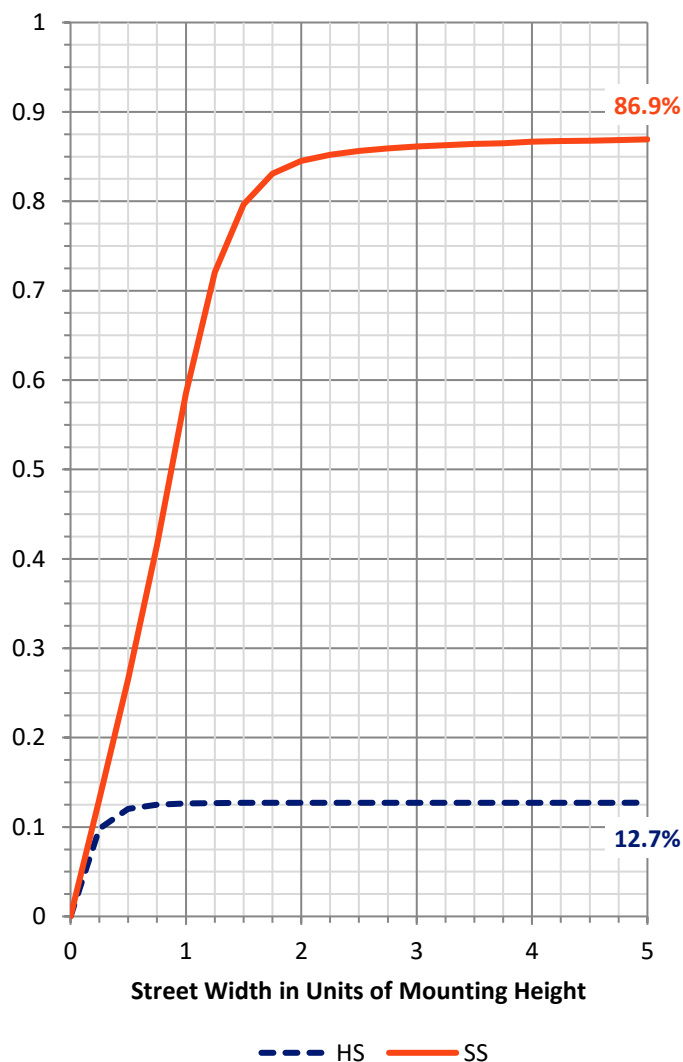
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2241.3	0.0	2241.3
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	15173.7	0.0	15173.7
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	17415.0	0.0	17415.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.8	1.4
10°-20°	603.9	3.5
20°-30°	895.1	5.1
30°-40°	1661.9	9.5
40°-50°	3520.7	20.2
50°-60°	4868.2	28.0
60°-70°	3897.2	22.4
70°-80°	1619.2	9.3
80°-90°	104.0	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°	17415.0	100.0
0°-180°	17415.0	100.0

**Coefficient of Utilization**

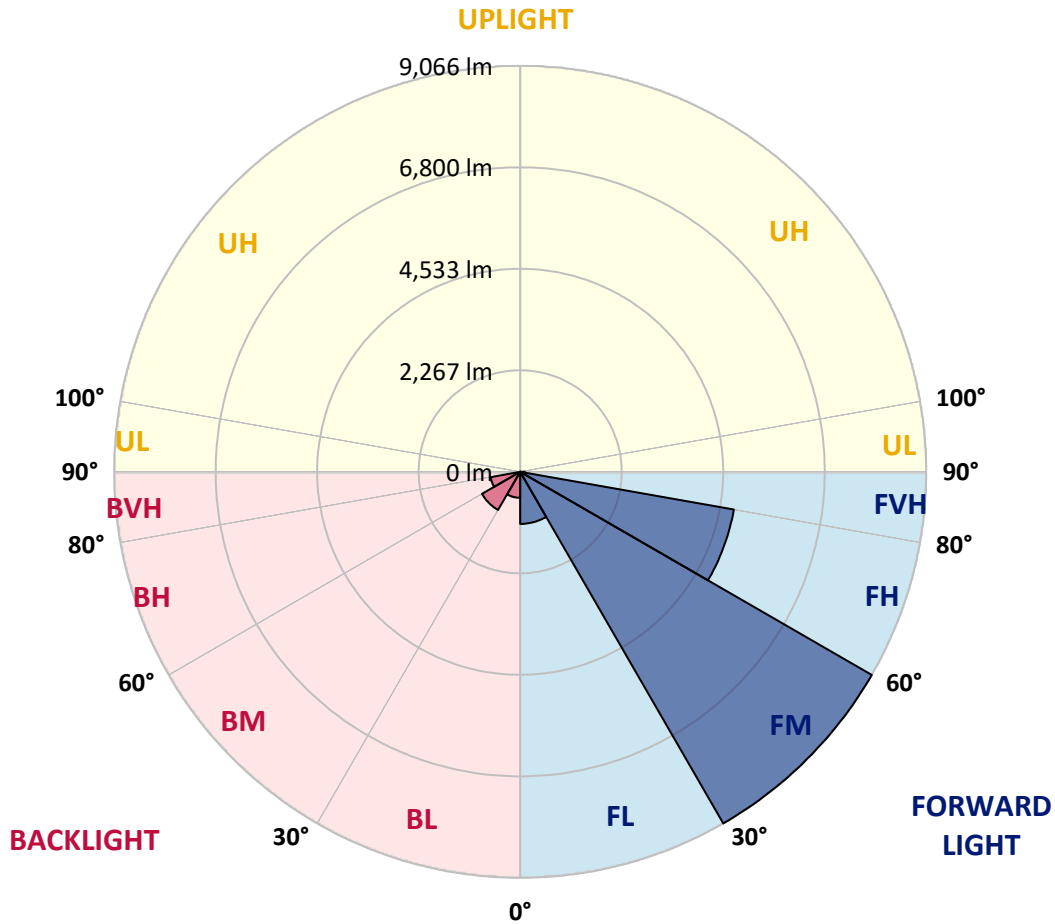


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1162.9	6.7			
FM (30°-60°)	9066.3	52.1			
FH (60°-80°)	4845.2	27.8			G2/5000
FVH (80°-90°)	99.2	0.6			G1/100
BL (0°-30°)	580.9	3.3	B2/1000		
BM (30°-60°)	984.6	5.7	B1/1000		
BH (60°-80°)	671.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.7	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8
2.5°	2728.8	2722.2	2715.7	2712.4	2712.4	2709.1	2695.9	2692.7	2686.1	2679.5	2672.9
5°	2702.5	2692.7	2689.4	2692.7	2695.9	2702.5	2695.9	2695.9	2689.4	2682.8	2669.6
7.5°	2636.8	2630.2	2633.5	2643.3	2646.6	2669.6	2672.9	2682.8	2682.8	2676.2	2666.4
10°	2557.9	2554.6	2554.6	2571.0	2587.4	2620.3	2643.3	2669.6	2672.9	2672.9	2656.5
12.5°	2498.7	2495.4	2505.3	2525.0	2557.9	2600.6	2640.0	2679.5	2686.1	2689.4	2663.1
15°	2462.5	2462.5	2475.7	2515.1	2561.1	2620.3	2666.4	2719.0	2725.5	2722.2	2686.1
17.5°	2429.6	2432.9	2459.2	2525.0	2577.6	2656.5	2712.4	2771.6	2774.8	2771.6	2712.4
20°	2416.5	2423.1	2462.5	2548.0	2607.2	2695.9	2768.3	2827.5	2830.7	2817.6	2738.7
22.5°	2452.6	2455.9	2505.3	2597.3	2653.2	2751.8	2843.9	2899.8	2903.1	2883.3	2778.1
25°	2577.6	2577.6	2620.3	2699.2	2748.5	2847.2	2945.8	3011.6	3011.6	2988.5	2866.9
27.5°	2870.2	2843.9	2834.0	2857.0	2873.5	2978.7	3083.9	3166.1	3162.8	3129.9	2982.0
30°	3435.7	3369.9	3264.7	3146.4	3087.2	3159.5	3258.1	3363.4	3360.1	3307.5	3123.3
32.5°	4385.8	4290.5	4040.6	3728.3	3475.1	3392.9	3485.0	3600.1	3603.4	3540.9	3350.2
35°	5717.4	5566.1	5119.0	4685.0	4106.4	3794.0	3820.3	3945.3	3984.7	3951.9	3731.6
37.5°	6999.6	6861.5	6434.1	5832.4	5046.7	4408.8	4297.1	4405.6	4451.6	4451.6	4218.2
40°	8291.7	8130.6	7752.5	7147.5	6319.0	5368.9	4967.8	5056.5	5105.8	5115.7	4810.0
42.5°	9327.3	9222.1	8932.8	8462.6	7686.7	7052.2	5934.4	5885.0	5931.1	5894.9	5497.1
45°	10044.0	9961.8	9761.3	9583.7	9205.7	8886.7	7226.4	6894.4	6924.0	6799.0	6269.7
47.5°	10192.0	10099.9	10057.2	10303.8	10573.3	10652.3	8814.4	8094.4	8064.8	7788.6	7071.9
50°	9547.6	9557.4	9715.3	10418.8	11543.2	12253.4	10655.5	9448.9	9340.4	8725.6	7818.2
52.5°	8156.9	8314.7	8712.5	9853.3	11839.1	13417.2	12496.7	10885.7	10718.0	9636.3	8377.1
55°	6381.5	6585.3	7239.6	8551.4	11221.0	13936.7	14048.5	12378.3	11996.9	10320.2	8811.1
57.5°	4744.2	4806.7	5569.4	6766.2	9758.0	13427.1	14844.1	13529.0	13039.1	10866.0	9241.8
60°	2955.7	2995.1	3800.6	5151.9	7390.8	11543.2	14844.1	14321.4	13854.5	11355.8	9636.3
62.5°	1837.8	1851.0	2153.5	3531.0	5023.7	8561.3	14229.3	14936.2	14561.4	11707.6	9975.0
65°	1058.7	1071.8	1213.2	1995.7	3268.0	5125.6	12657.8	15117.0	14949.3	11987.1	10238.0
67.5°	772.6	779.2	835.1	1121.1	2137.0	2633.5	9508.1	14390.4	14600.8	12125.2	10231.4
70°	670.7	680.6	752.9	874.5	1541.9	1617.6	4839.5	12427.6	13016.1	11927.9	9925.7
72.5°	516.2	529.3	637.8	821.9	1131.0	1163.9	1752.4	8844.0	9735.0	10695.0	9087.3
75°	355.1	368.2	476.7	677.3	933.7	871.2	963.3	4070.2	5135.4	7173.8	6917.4
77.5°	226.9	230.1	299.2	493.2	805.5	618.1	660.8	1328.2	1864.1	3245.0	3264.7
80°	151.2	154.5	184.1	318.9	552.3	572.1	407.7	614.8	674.0	946.9	657.5
82.5°	92.1	92.1	124.9	200.6	335.3	473.4	266.3	322.2	345.2	364.9	171.0
85°	36.2	36.2	75.6	131.5	210.4	220.3	167.7	187.4	197.3	213.7	78.9
87.5°	9.9	9.9	42.7	72.3	92.1	101.9	101.9	92.1	98.6	121.6	39.5
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°	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8
2.5°	2669.6	2659.8	2646.6	2633.5	2620.3	2610.5	2600.6	2600.6	2594.0	2584.2	2577.6
5°	2663.1	2646.6	2617.0	2594.0	2557.9	2531.6	2511.8	2495.4	2485.5	2462.5	2459.2
7.5°	2653.2	2633.5	2590.7	2544.7	2485.5	2439.5	2393.5	2360.6	2327.7	2301.4	2294.8
10°	2636.8	2613.7	2551.3	2485.5	2403.3	2317.9	2209.4	2084.4	1969.4	1903.6	1883.9
12.5°	2636.8	2607.2	2525.0	2436.2	2317.9	2107.4	1831.3	1555.1	1341.4	1246.1	1219.7
15°	2653.2	2613.7	2505.3	2383.6	2163.3	1735.9	1288.8	923.9	690.4	618.1	601.7
17.5°	2669.6	2613.7	2475.7	2311.3	1880.6	1259.2	733.2	486.6	411.0	394.5	394.5
20°	2676.2	2607.2	2436.2	2176.5	1502.5	782.5	437.3	364.9	335.3	325.5	325.5
22.5°	2702.5	2610.5	2406.6	1982.5	1091.5	460.3	345.2	305.8	276.2	266.3	266.3
25°	2768.3	2649.9	2413.2	1735.9	700.3	348.5	292.6	253.2	223.6	210.4	210.4
27.5°	2873.5	2738.7	2449.4	1449.9	440.6	299.2	246.6	203.8	180.8	167.7	167.7
30°	2991.8	2837.3	2465.8	1121.1	328.8	253.2	200.6	161.1	144.7	134.8	131.5
32.5°	3199.0	3008.3	2452.6	769.3	269.6	213.7	161.1	128.2	115.1	111.8	111.8
35°	3531.0	3307.5	2426.3	483.3	223.6	171.0	128.2	105.2	95.3	92.1	88.8
37.5°	3981.4	3744.7	2347.4	318.9	184.1	134.8	105.2	88.8	78.9	75.6	75.6
40°	4530.5	4244.5	2196.2	243.3	157.8	108.5	88.8	75.6	69.0	65.8	65.8
42.5°	5158.5	4800.1	1956.2	210.4	131.5	92.1	75.6	62.5	59.2	55.9	55.9
45°	5845.6	5382.0	1624.1	187.4	111.8	75.6	62.5	55.9	49.3	49.3	46.0
47.5°	6575.5	5967.2	1249.3	164.4	95.3	65.8	55.9	46.0	42.7	39.5	39.5
50°	7279.0	6490.0	877.8	141.4	78.9	55.9	46.0	39.5	36.2	32.9	32.9
52.5°	7775.5	6805.6	621.4	121.6	65.8	49.3	36.2	29.6	26.3	26.3	26.3
55°	8173.3	7002.9	434.0	101.9	55.9	42.7	29.6	23.0	23.0	19.7	19.7
57.5°	8548.1	7131.1	318.9	85.5	46.0	32.9	23.0	16.4	16.4	13.2	13.2
60°	8936.1	7200.1	243.3	69.0	39.5	26.3	16.4	13.2	9.9	9.9	9.9
62.5°	9327.3	7242.9	187.4	55.9	32.9	19.7	13.2	9.9	6.6	3.3	3.3
65°	9669.2	7256.0	144.7	42.7	26.3	13.2	9.9	3.3	0.0	0.0	0.0
67.5°	9771.1	7104.8	111.8	32.9	19.7	9.9	6.6	0.0	0.0	0.0	0.0
70°	9495.0	6703.7	85.5	26.3	16.4	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	8426.5	5622.0	65.8	16.4	13.2	6.6	3.3	0.0	0.0	0.0	0.0
75°	6029.7	2998.4	46.0	13.2	9.9	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	2774.8	1160.6	32.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0
80°	542.5	289.3	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	124.9	49.3	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.7	16.4	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	6.6	3.3	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)