

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: P400024

Luminaire Tested: **ARCH-L-PA3-220-760-U-T3-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-220-760-U-T3-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22602 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

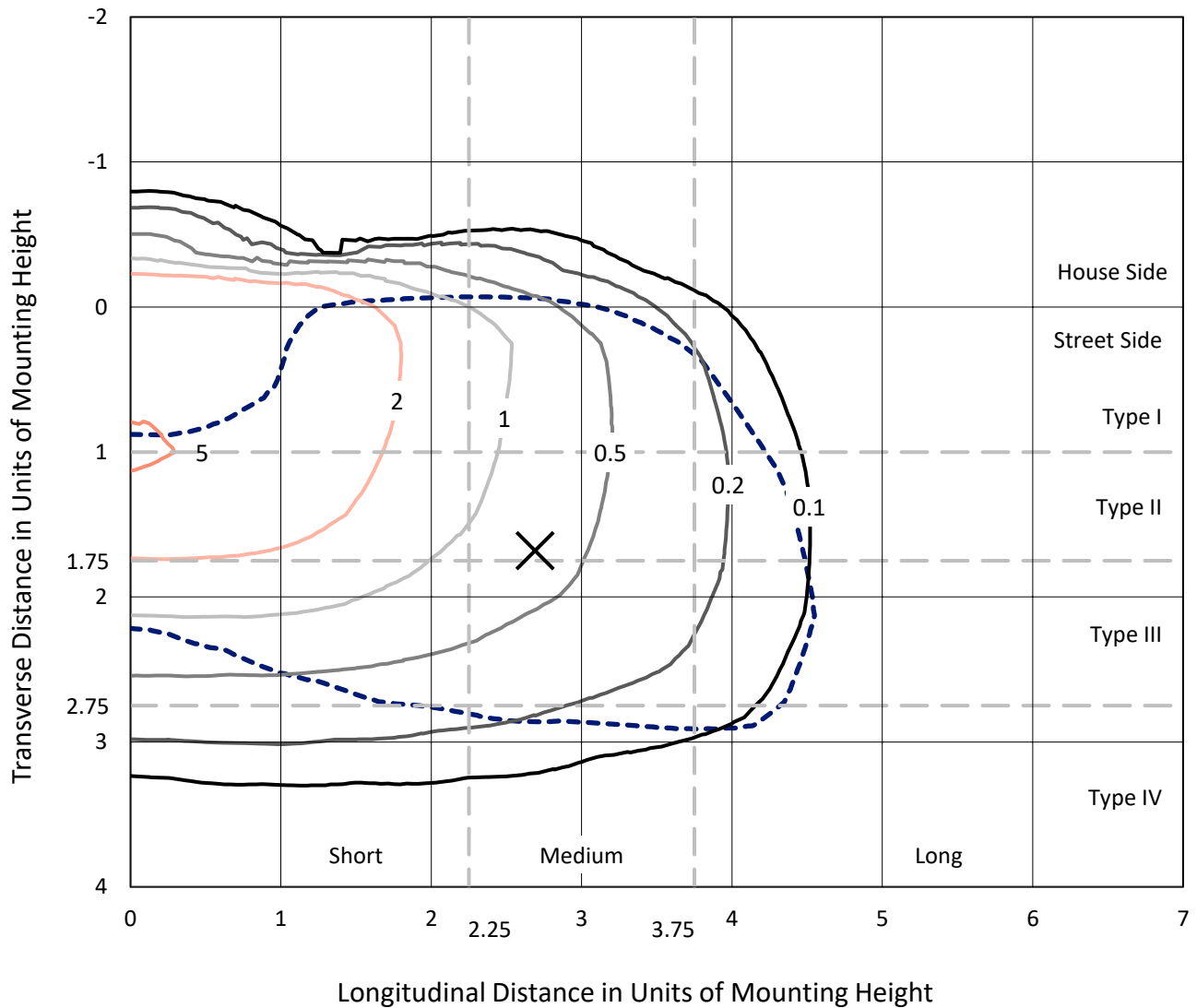
Input Watts (W): 222  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P400024  
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### Iso-Footcandle Lines of Horizontal Illumination

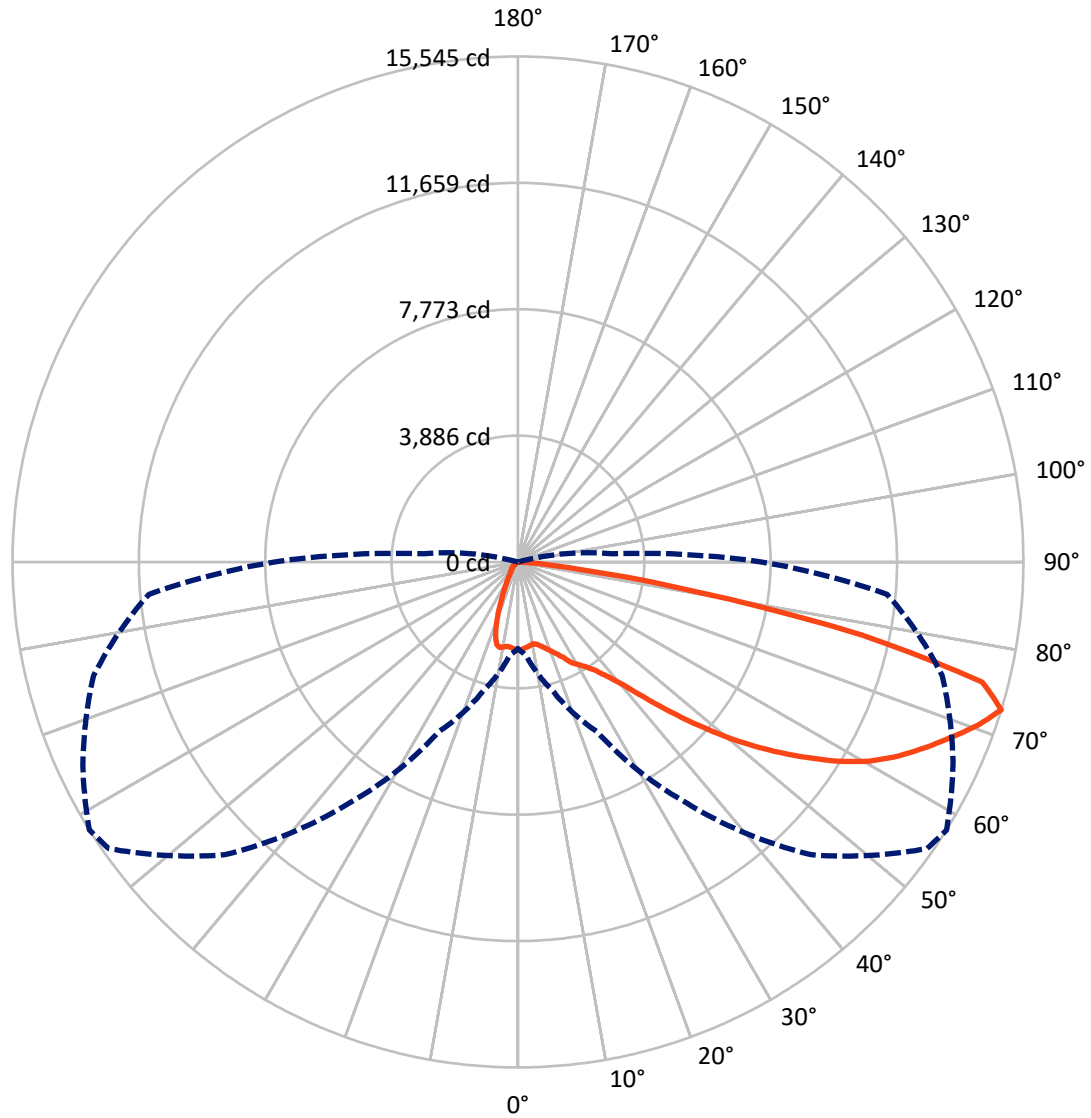
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P400024  
CATALOG NUMBER: ARCH-L-PA3-220-760-U-T3-HSS

### Luminous Intensity Polar Plot



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

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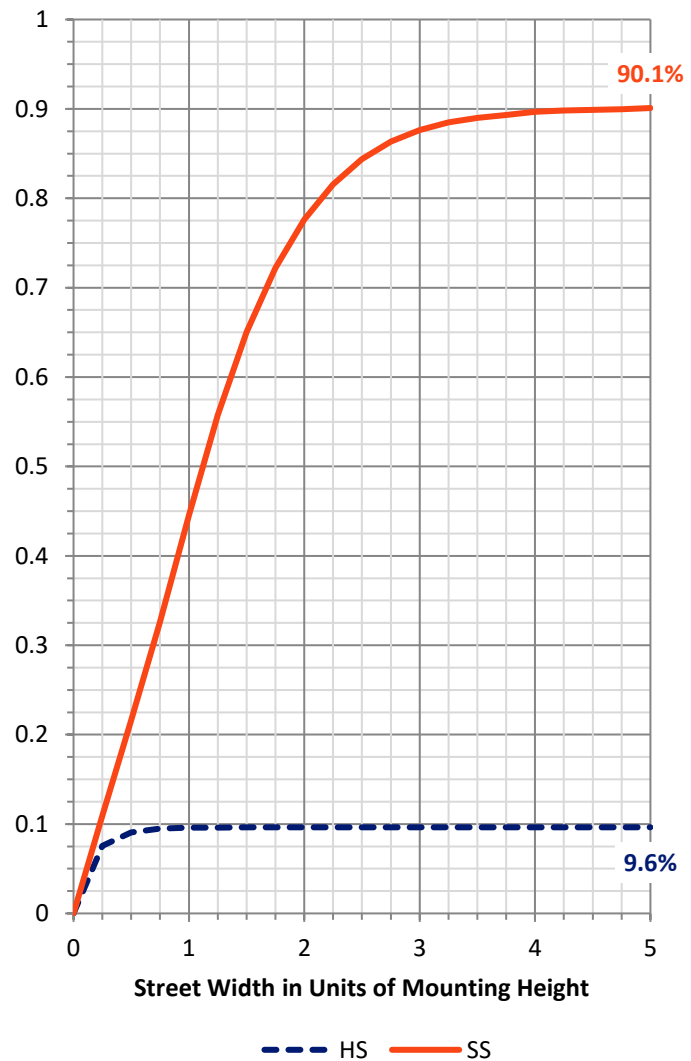
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2197.9	0.0	2197.9
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	20404.1	0.0	20404.1
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	22602.0	0.0	22602.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.9	1.1
10°-20°	648.3	2.9
20°-30°	1018.4	4.5
30°-40°	1756.3	7.8
40°-50°	3341.6	14.8
50°-60°	5292.0	23.4
60°-70°	6175.1	27.3
70°-80°	3867.5	17.1
80°-90°	253.9	1.1
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°	22602.0	100.0
0°-180°	22602.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P400024

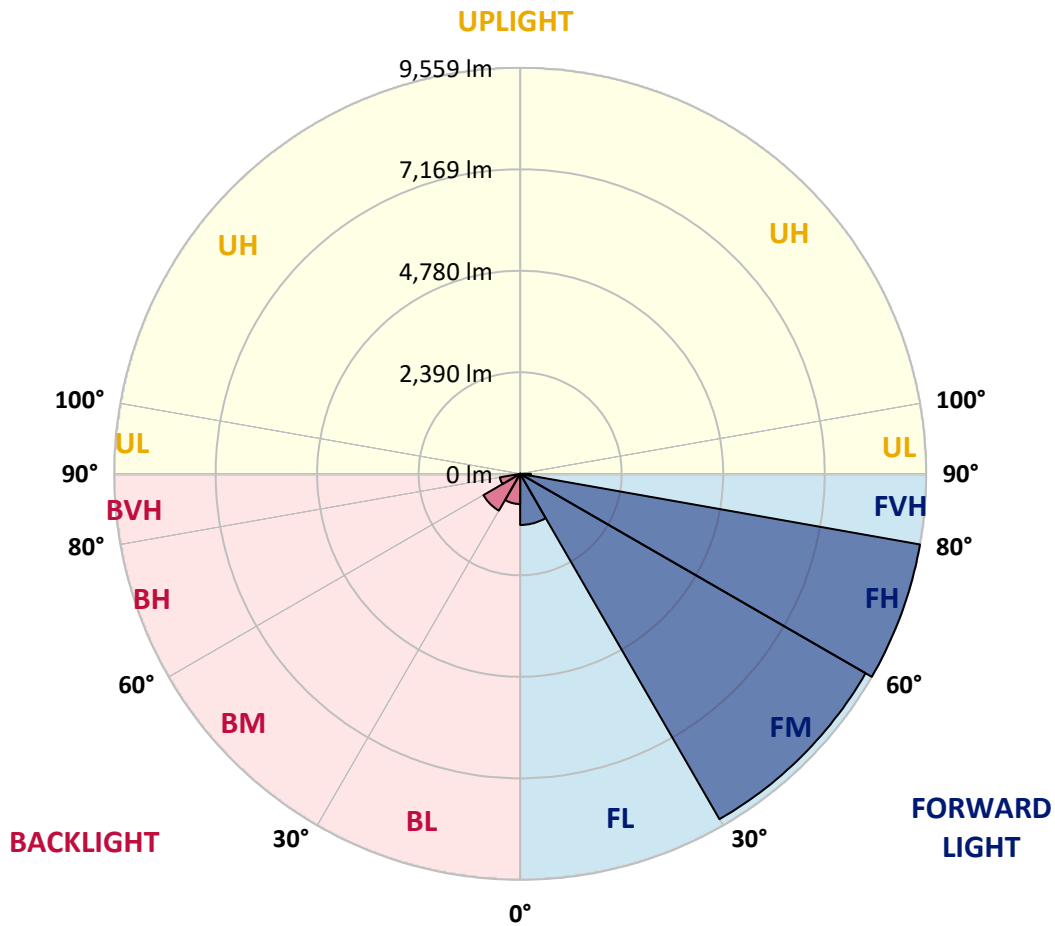
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.9	5.3			
FM (30°-60°)	9389.8	41.5			
FH (60°-80°)	9559.0	42.3			G4/12000
FVH (80°-90°)	251.4	1.1			G3/500
BL (0°-30°)	711.7	3.1	B2/1000		
BM (30°-60°)	1000.1	4.4	B2/2500		
BH (60°-80°)	483.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4**

Type IV Medium





REPORT NUMBER: P400024

CATALOG NUMBER: ARCH-L-PA3-220-760-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1
2.5°	2700.0	2687.9	2683.8	2679.8	2683.8	2687.9	2675.7	2687.9	2679.8	2683.8	2691.9
5°	2603.0	2590.8	2586.8	2590.8	2603.0	2623.2	2631.3	2643.4	2643.4	2655.5	2659.6
7.5°	2493.8	2485.8	2481.7	2489.8	2514.1	2558.5	2582.8	2598.9	2615.1	2639.3	2663.6
10°	2433.2	2429.2	2425.1	2437.3	2461.5	2501.9	2534.3	2558.5	2619.1	2687.9	2732.3
12.5°	2392.8	2392.8	2400.9	2425.1	2457.5	2489.8	2566.6	2598.9	2691.9	2797.0	2857.6
15°	2360.5	2360.5	2372.6	2417.0	2461.5	2538.3	2651.5	2687.9	2797.0	2926.3	3007.2
17.5°	2336.2	2344.3	2352.4	2396.8	2481.7	2611.1	2744.4	2797.0	2930.4	3071.8	3160.8
20°	2340.2	2348.3	2352.4	2396.8	2518.1	2695.9	2865.7	2926.3	3079.9	3229.5	3318.4
22.5°	2364.5	2376.6	2380.7	2441.3	2582.8	2784.9	3003.1	3071.8	3237.5	3395.2	3463.9
25°	2465.5	2473.6	2449.4	2501.9	2675.7	2922.3	3181.0	3253.7	3419.4	3564.9	3621.5
27.5°	2809.1	2817.2	2683.8	2623.2	2748.5	3035.5	3399.2	3500.3	3706.4	3803.4	3811.5
30°	3552.8	3560.9	3298.2	3011.2	2922.3	3132.5	3520.5	3661.9	3928.7	4037.8	3989.3
32.5°	4510.7	4502.7	4142.9	3718.5	3334.6	3302.2	3694.3	3843.8	4134.8	4239.9	4203.6
35°	5472.7	5484.8	5177.6	4539.0	3989.3	3621.5	3916.6	4090.4	4442.0	4591.6	4526.9
37.5°	6131.5	6212.4	6079.0	5387.8	4793.7	4211.6	4276.3	4462.2	4902.8	5104.9	4967.5
40°	7061.2	7041.0	6717.6	6208.3	5682.9	5084.7	4858.3	4947.3	5452.5	5723.3	5509.1
42.5°	8310.1	8269.7	7720.0	7222.8	6636.8	6147.7	5686.9	5670.8	6083.0	6398.3	6087.1
45°	9441.8	9381.2	9005.3	8524.3	7881.7	7319.8	6697.4	6555.9	6842.9	7109.7	6745.9
47.5°	10343.2	10242.1	9975.4	9720.7	9563.1	8690.0	7756.4	7542.2	7687.7	7885.7	7372.4
50°	11410.2	11131.3	10743.3	10589.7	10917.1	10242.1	8774.9	8568.8	8560.7	8673.9	8019.1
52.5°	11895.3	11390.0	11171.8	11301.1	11879.1	11685.1	9874.3	9579.3	9462.0	9474.2	8621.3
55°	11309.2	11252.6	11369.8	11774.0	12529.8	12416.7	10929.2	10565.5	10391.7	10173.4	9199.3
57.5°	10642.3	10816.1	11280.9	12052.9	13354.4	13180.6	11968.0	11555.7	11236.4	10735.2	9842.0
60°	10027.9	10205.7	10973.7	12117.6	13807.1	13916.2	12833.0	12440.9	11968.0	11309.2	10549.3
62.5°	9094.2	9231.7	10310.8	12024.6	13609.0	14344.6	13435.2	13140.2	12699.6	11854.8	11361.7
65°	8043.3	8132.3	9199.3	11280.9	13221.0	14296.1	13932.4	13766.6	13338.2	12424.7	12166.1
67.5°	6891.4	6996.5	7885.7	9943.0	12461.1	14069.8	14401.2	14385.1	13896.0	13055.3	12748.1
70°	5565.7	5573.8	6309.4	8245.4	11135.4	13617.1	14983.3	15019.6	14429.5	13528.2	12772.3
72.5°	2663.6	2881.9	4090.4	5755.6	9049.8	12727.9	15363.2	15545.1	14765.0	13512.0	11394.1
75°	610.3	630.5	1192.4	2736.4	5307.0	9769.2	14413.3	14752.9	13948.5	11685.1	8027.2
77.5°	222.3	234.4	335.5	800.3	2041.1	5048.3	10314.9	10812.0	10310.8	7554.3	3795.3
80°	149.5	145.5	173.8	355.7	937.7	1430.8	5274.7	5569.7	5084.7	2578.7	909.4
82.5°	76.8	80.8	121.3	198.1	630.5	497.2	1762.3	1915.9	1576.3	517.4	169.8
85°	36.4	36.4	68.7	125.3	266.8	173.8	392.1	472.9	424.4	226.3	56.6
87.5°	36.4	36.4	64.7	80.8	137.4	72.8	97.0	121.3	113.2	121.3	20.2
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: P400024

CATALOG NUMBER: ARCH-L-PA3-220-760-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1	2712.1
2.5°	2691.9	2687.9	2683.8	2691.9	2687.9	2695.9	2695.9	2704.0	2704.0	2695.9	2691.9
5°	2655.5	2647.4	2639.3	2639.3	2635.3	2643.4	2667.6	2687.9	2691.9	2679.8	2675.7
7.5°	2659.6	2659.6	2651.5	2635.3	2607.0	2607.0	2607.0	2631.3	2643.4	2635.3	2631.3
10°	2732.3	2736.4	2716.1	2679.8	2631.3	2586.8	2501.9	2376.6	2259.4	2227.1	2215.0
12.5°	2857.6	2861.7	2821.2	2756.6	2655.5	2392.8	2069.4	1770.3	1540.0	1475.3	1463.2
15°	3007.2	3011.2	2938.4	2833.4	2526.2	1915.9	1434.9	1095.3	893.3	844.8	840.7
17.5°	3160.8	3152.7	3043.5	2841.4	2142.2	1358.1	873.0	699.2	646.7	634.6	638.6
20°	3310.3	3286.0	3136.5	2691.9	1649.1	889.2	638.6	598.2	586.1	578.0	578.0
22.5°	3447.7	3399.2	3213.3	2396.8	1156.0	638.6	569.9	561.8	545.7	533.5	529.5
25°	3585.1	3516.4	3261.8	2012.9	776.0	557.8	537.6	521.4	501.2	485.0	481.0
27.5°	3750.9	3653.9	3237.5	1527.8	582.0	517.4	501.2	476.9	448.6	424.4	416.3
30°	3908.5	3799.4	3100.1	1054.9	497.2	476.9	452.7	416.3	379.9	351.6	343.6
32.5°	4106.6	3981.3	2853.6	691.2	432.5	416.3	392.1	347.6	299.1	266.8	258.7
35°	4389.5	4248.0	2538.3	485.0	379.9	351.6	319.3	270.8	218.3	194.0	190.0
37.5°	4785.6	4595.6	2142.2	392.1	335.5	295.1	246.6	198.1	161.7	141.5	137.4
40°	5270.6	4979.6	1701.6	347.6	299.1	246.6	185.9	141.5	117.2	101.0	101.0
42.5°	5796.1	5339.3	1253.0	319.3	262.7	202.1	137.4	101.0	84.9	76.8	72.8
45°	6337.7	5658.6	844.8	295.1	230.4	153.6	97.0	68.7	56.6	56.6	52.5
47.5°	6899.5	5872.9	545.7	266.8	194.0	113.2	64.7	48.5	40.4	40.4	40.4
50°	7457.3	5986.0	388.0	242.5	157.6	76.8	48.5	36.4	32.3	32.3	32.3
52.5°	7861.5	5913.3	311.2	210.2	121.3	56.6	36.4	28.3	24.3	24.3	24.3
55°	8213.1	5788.0	270.8	181.9	88.9	40.4	28.3	24.3	20.2	20.2	20.2
57.5°	8572.8	5626.3	242.5	153.6	64.7	28.3	20.2	16.2	16.2	16.2	16.2
60°	8900.2	5351.5	210.2	121.3	44.5	20.2	16.2	12.1	12.1	12.1	12.1
62.5°	9219.5	5117.0	181.9	93.0	32.3	16.2	8.1	8.1	4.0	4.0	4.0
65°	9401.4	4801.8	145.5	60.6	20.2	12.1	4.0	4.0	0.0	0.0	0.0
67.5°	9344.8	4425.9	101.0	36.4	12.1	8.1	4.0	0.0	0.0	0.0	0.0
70°	8952.8	3920.6	60.6	20.2	12.1	8.1	4.0	0.0	0.0	0.0	0.0
72.5°	7497.7	2902.1	36.4	16.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0
75°	5007.9	1333.8	20.2	12.1	4.0	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	2291.7	400.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	460.8	105.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	97.0	20.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.0	0.0	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)