

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: P479468

Luminaire Tested: **IFLD-L-SA7A-827-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479468  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-827-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

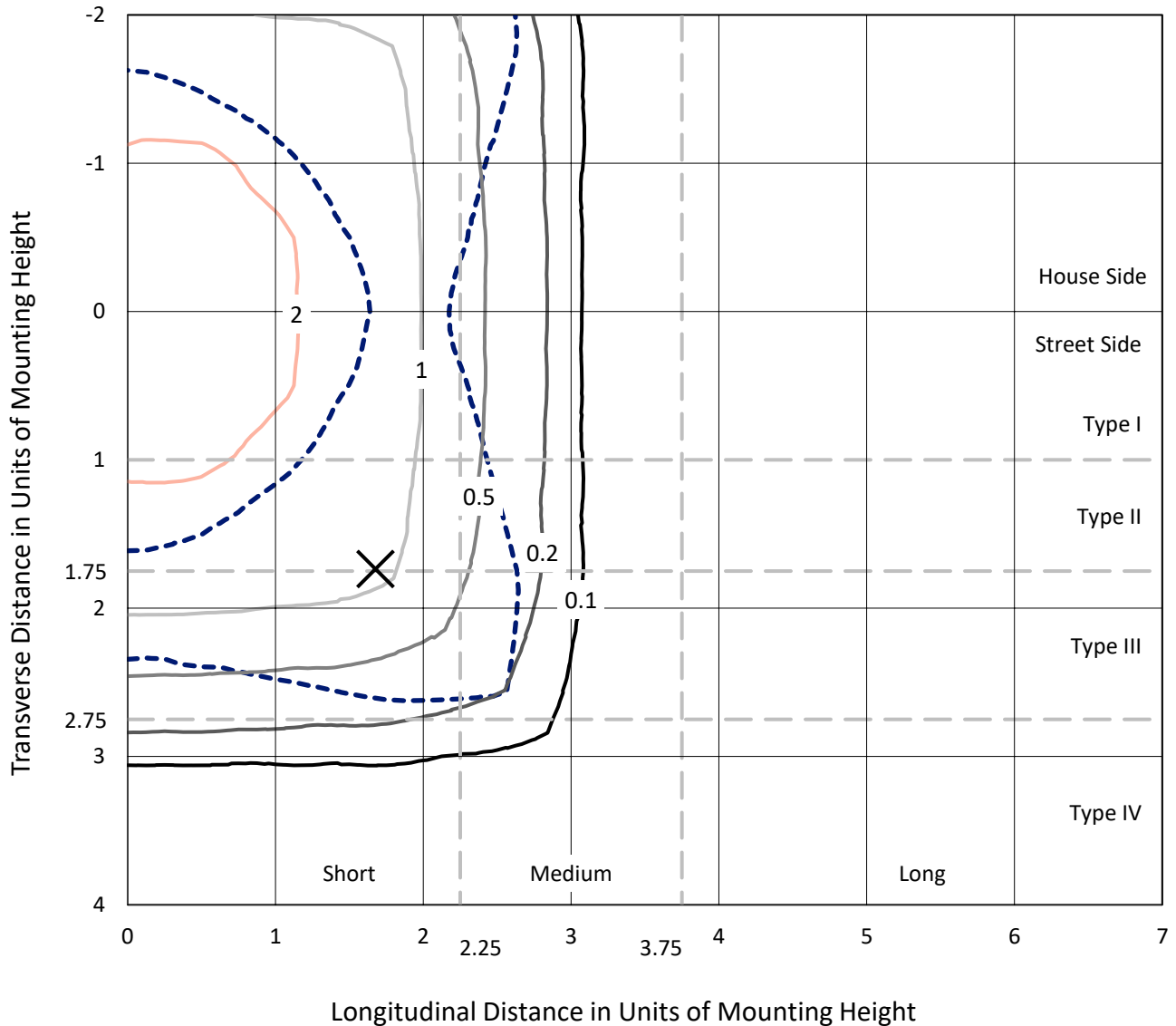
Lumens per Lamp: N/A  
Luminaire Lumens: 23225.5 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 217.6  
Input Voltage (V): 120  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

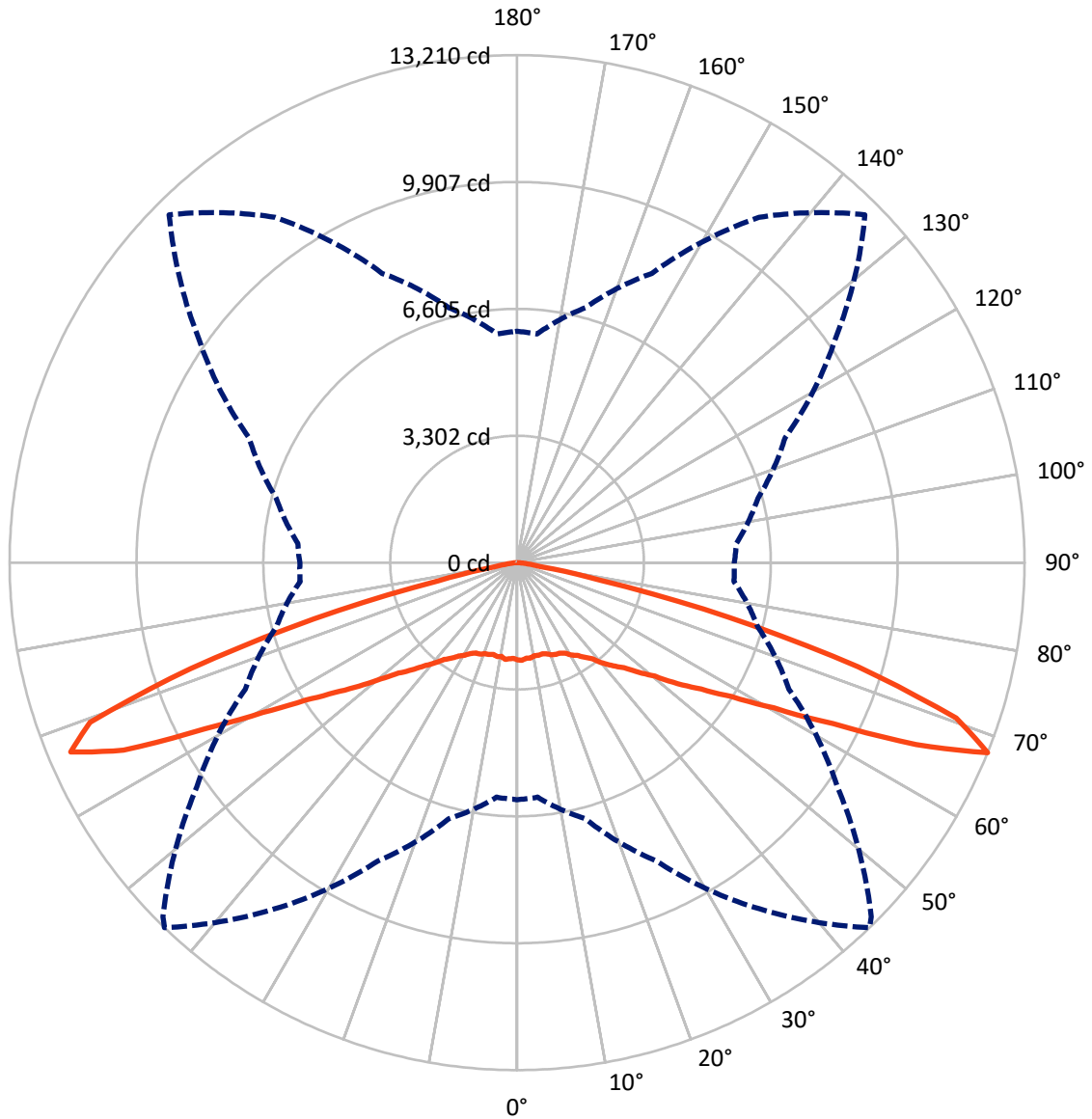
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11583.0	0.0	11583.0
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	11642.5	0.0	11642.5
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	23225.5	0.0	23225.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.1	1.0
10°-20°	701.4	3.0
20°-30°	1192.7	5.1
30°-40°	1891.1	8.1
40°-50°	3083.6	13.3
50°-60°	5266.4	22.7
60°-70°	8010.1	34.5
70°-80°	2699.9	11.6
80°-90°	140.2	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°	23225.5	100.0
0°-180°	23225.5	100.0

**Coefficient of Utilization**



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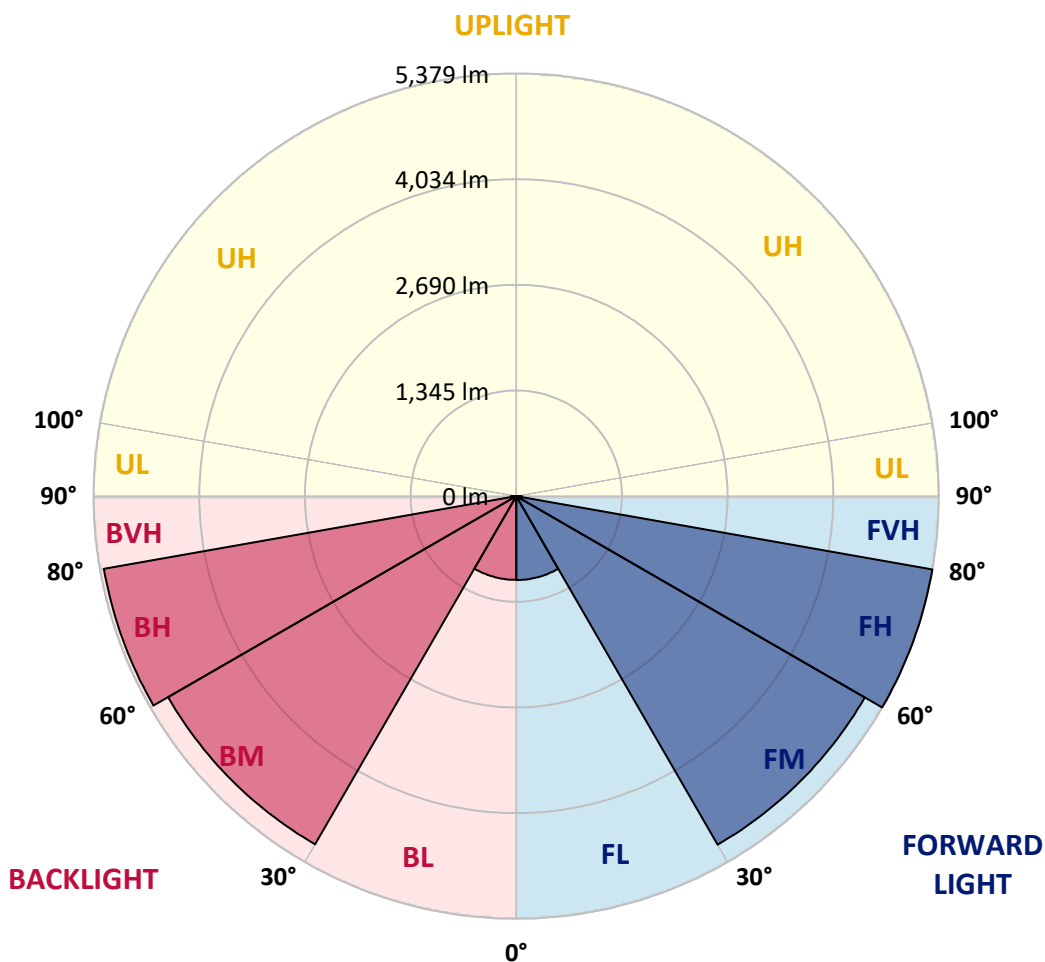
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.2	4.6			
FM (30°-60°)	5123.3	22.1			
FH (60°-80°)	5379.3	23.2			G3/7500
FVH (80°-90°)	71.7	0.3			G1/100
BL (0°-30°)	1066.0	4.6	B3/2500		
BM (30°-60°)	5117.8	22.0	B4/8500		
BH (60°-80°)	5330.8	23.0	B5		G3/7500
BVH (80°-90°)	68.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0
2.5°	2478.7	2507.8	2529.0	2526.4	2534.3	2542.3	2531.7	2547.6	2537.0	2555.5	2566.1
5°	2526.4	2518.4	2521.1	2505.2	2542.3	2499.9	2499.9	2521.1	2547.6	2515.8	2534.3
7.5°	2497.2	2491.9	2478.7	2502.5	2510.5	2510.5	2531.7	2491.9	2537.0	2547.6	2550.2
10°	2465.4	2436.2	2476.0	2499.9	2505.2	2462.8	2481.3	2491.9	2478.7	2491.9	2499.9
12.5°	2438.9	2454.8	2454.8	2454.8	2446.9	2476.0	2494.6	2491.9	2465.4	2489.3	2446.9
15°	2436.2	2428.3	2452.2	2473.4	2460.1	2465.4	2473.4	2497.2	2446.9	2457.5	2457.5
17.5°	2433.6	2444.2	2452.2	2449.5	2494.6	2494.6	2486.6	2470.7	2510.5	2489.3	2460.1
20°	2444.2	2436.2	2457.5	2465.4	2497.2	2560.8	2537.0	2523.7	2502.5	2476.0	2476.0
22.5°	2457.5	2452.2	2481.3	2515.8	2576.7	2592.7	2590.0	2574.1	2537.0	2505.2	2499.9
25°	2505.2	2457.5	2489.3	2555.5	2576.7	2608.6	2629.8	2608.6	2558.2	2566.1	2518.4
27.5°	2576.7	2568.8	2611.2	2656.3	2637.7	2666.9	2648.3	2664.2	2666.9	2627.1	2579.4
30°	2661.6	2637.7	2664.2	2751.7	2759.7	2791.5	2759.7	2717.3	2730.5	2696.0	2672.2
32.5°	2783.5	2775.6	2825.9	2884.3	2894.9	2879.0	2863.1	2886.9	2831.2	2804.7	2762.3
35°	2863.1	2897.5	2958.5	3003.6	3038.0	3022.1	3030.1	3006.2	3019.5	2963.8	2945.2
37.5°	3099.0	3085.7	3099.0	3175.9	3183.8	3175.9	3183.8	3210.3	3191.8	3144.1	3096.3
40°	3321.7	3300.5	3332.3	3419.8	3414.5	3441.0	3387.9	3417.1	3417.1	3327.0	3308.4
42.5°	3488.7	3560.3	3597.4	3669.0	3695.5	3671.6	3661.0	3666.3	3724.6	3618.6	3578.8
45°	3833.3	3830.7	3942.0	3981.8	3907.5	3902.2	3881.0	3944.7	3984.4	3923.4	3907.5
47.5°	4207.1	4225.7	4289.3	4305.2	4350.3	4268.1	4268.1	4276.0	4416.5	4273.4	4199.1
50°	4543.8	4567.6	4694.9	4819.5	4734.6	4647.2	4681.6	4724.0	4800.9	4665.7	4602.1
52.5°	4952.0	5081.9	5166.8	5233.0	5294.0	5233.0	5153.5	5201.2	5352.3	5172.1	5092.5
55°	5540.5	5643.9	5723.5	5845.4	5895.8	5813.6	5805.6	5800.3	5885.2	5694.3	5585.6
57.5°	6198.0	6155.6	6282.8	6471.0	6654.0	6574.4	6550.6	6555.9	6577.1	6306.7	6224.5
60°	7014.5	7062.2	7213.3	7377.7	7571.2	7682.5	7526.1	7436.0	7454.5	7086.1	6958.8
62.5°	7481.1	7587.1	7929.1	8493.7	8883.4	9230.7	9254.6	8668.7	8276.4	7560.6	7019.8
65°	7255.7	7239.8	7884.0	8928.5	10405.1	11415.1	11264.0	9843.1	8472.5	7335.3	6608.9
67.5°	6171.5	6129.1	6908.4	8565.3	11004.2	13209.8	13037.5	10174.5	7809.8	6489.6	5667.8
70°	3976.5	3965.9	4811.5	6529.4	9824.5	12128.2	12191.8	9241.3	6357.0	4753.2	3939.4
72.5°	1444.8	1532.3	2022.7	3509.9	6672.5	9278.4	9318.2	6842.2	3655.7	2197.7	1619.7
75°	532.8	548.8	638.9	1139.9	3040.7	5697.0	5845.4	3319.0	1299.0	715.8	583.2
77.5°	307.5	310.2	342.0	424.2	901.3	2224.2	2314.3	1007.4	503.7	381.7	352.6
80°	209.4	206.8	241.2	275.7	360.5	630.9	670.7	421.5	318.1	265.1	222.7
82.5°	121.9	129.9	177.6	196.2	220.0	278.4	283.7	262.4	238.6	196.2	145.8
85°	74.2	61.0	98.1	108.7	127.2	124.6	124.6	143.2	153.8	137.9	82.2
87.5°	18.6	18.6	23.9	26.5	34.5	26.5	29.2	55.7	74.2	68.9	42.4
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°	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0	2537.0
2.5°	2542.3	2534.3	2539.6	2568.8	2550.2	2494.6	2507.8	2537.0	2513.1	2499.9	2497.2
5°	2531.7	2547.6	2529.0	2534.3	2552.9	2507.8	2515.8	2552.9	2537.0	2542.3	2513.1
7.5°	2534.3	2542.3	2526.4	2502.5	2502.5	2539.6	2518.4	2523.7	2499.9	2539.6	2486.6
10°	2518.4	2497.2	2478.7	2491.9	2486.6	2476.0	2468.1	2484.0	2460.1	2494.6	2457.5
12.5°	2470.7	2476.0	2470.7	2465.4	2476.0	2502.5	2460.1	2465.4	2428.3	2433.6	2452.2
15°	2452.2	2468.1	2462.8	2491.9	2505.2	2465.4	2497.2	2465.4	2436.2	2420.3	2449.5
17.5°	2460.1	2484.0	2476.0	2497.2	2473.4	2502.5	2507.8	2494.6	2460.1	2446.9	2460.1
20°	2468.1	2460.1	2470.7	2507.8	2542.3	2513.1	2513.1	2505.2	2473.4	2454.8	2454.8
22.5°	2486.6	2473.4	2489.3	2518.4	2529.0	2574.1	2534.3	2515.8	2462.8	2415.0	2460.1
25°	2523.7	2531.7	2542.3	2531.7	2590.0	2584.7	2579.4	2566.1	2484.0	2486.6	2478.7
27.5°	2595.3	2550.2	2563.5	2627.1	2635.1	2656.3	2629.8	2653.6	2566.1	2568.8	2515.8
30°	2682.8	2635.1	2677.5	2733.2	2730.5	2770.3	2757.0	2762.3	2701.3	2666.9	2595.3
32.5°	2778.2	2772.9	2799.4	2833.9	2847.1	2868.4	2865.7	2865.7	2828.6	2738.5	2751.7
35°	2884.3	2921.4	2953.2	2990.3	2995.6	3022.1	2985.0	2990.3	2953.2	2886.9	2908.1
37.5°	3093.7	3091.0	3125.5	3170.6	3175.9	3154.7	3183.8	3170.6	3120.2	3075.1	3040.7
40°	3337.6	3284.6	3316.4	3422.4	3430.4	3393.3	3390.6	3387.9	3350.8	3252.7	3231.5
42.5°	3549.7	3618.6	3613.3	3647.7	3623.9	3605.3	3671.6	3634.5	3605.3	3501.9	3483.4
45°	3822.7	3843.9	3912.8	4024.2	3910.2	3910.2	3955.3	3926.1	3910.2	3833.3	3761.7
47.5°	4162.0	4180.6	4318.4	4326.4	4252.2	4201.8	4342.3	4347.6	4281.3	4223.0	4135.5
50°	4559.7	4567.6	4692.2	4819.5	4737.3	4641.9	4785.0	4840.7	4692.2	4612.7	4504.0
52.5°	4997.1	4973.2	5076.6	5315.2	5235.7	5206.5	5360.3	5373.5	5172.1	5047.5	5076.6
55°	5500.8	5469.0	5750.0	5911.7	5861.3	5808.3	5877.2	5909.0	5747.3	5543.2	5614.8
57.5°	6152.9	6168.8	6309.3	6468.4	6550.6	6563.8	6595.6	6563.8	6399.5	6192.7	6126.4
60°	6805.1	6852.8	7125.8	7425.4	7451.9	7685.2	7642.8	7483.7	7250.4	6956.2	6969.4
62.5°	7046.3	7006.5	7446.6	8178.3	8801.2	9228.1	9039.8	8475.2	7934.4	7398.9	7438.6
65°	6561.2	6659.3	7258.4	8403.6	9755.6	11444.3	10442.2	8880.8	7788.6	7096.7	7019.8
67.5°	5654.5	5728.8	6489.6	7698.4	10097.6	12806.9	10972.4	8308.2	6868.7	5972.7	6020.4
70°	3939.4	3976.5	4721.4	6306.7	9156.5	12085.8	9898.7	6380.9	4742.6	3780.3	3833.3
72.5°	1585.3	1675.4	2165.8	3798.9	6760.0	9183.0	6664.6	3348.2	1967.0	1463.3	1328.1
75°	585.9	588.5	691.9	1306.9	3210.3	5771.2	3006.2	1076.3	628.3	514.3	490.4
77.5°	339.3	336.7	360.5	471.9	930.5	2253.3	853.6	421.5	342.0	307.5	294.3
80°	212.1	209.4	246.5	312.8	408.3	617.7	360.5	262.4	230.6	198.8	198.8
82.5°	135.2	137.9	193.5	230.6	249.2	273.1	209.4	185.6	172.3	114.0	111.3
85°	87.5	79.5	135.2	153.8	137.9	121.9	116.6	98.1	90.1	55.7	61.0
87.5°	39.8	42.4	68.9	76.9	50.4	29.2	29.2	21.2	21.2	13.3	13.3
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)