

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: P479328

Luminaire Tested: **IFLD-S-SA3C-740-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479328  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-740-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

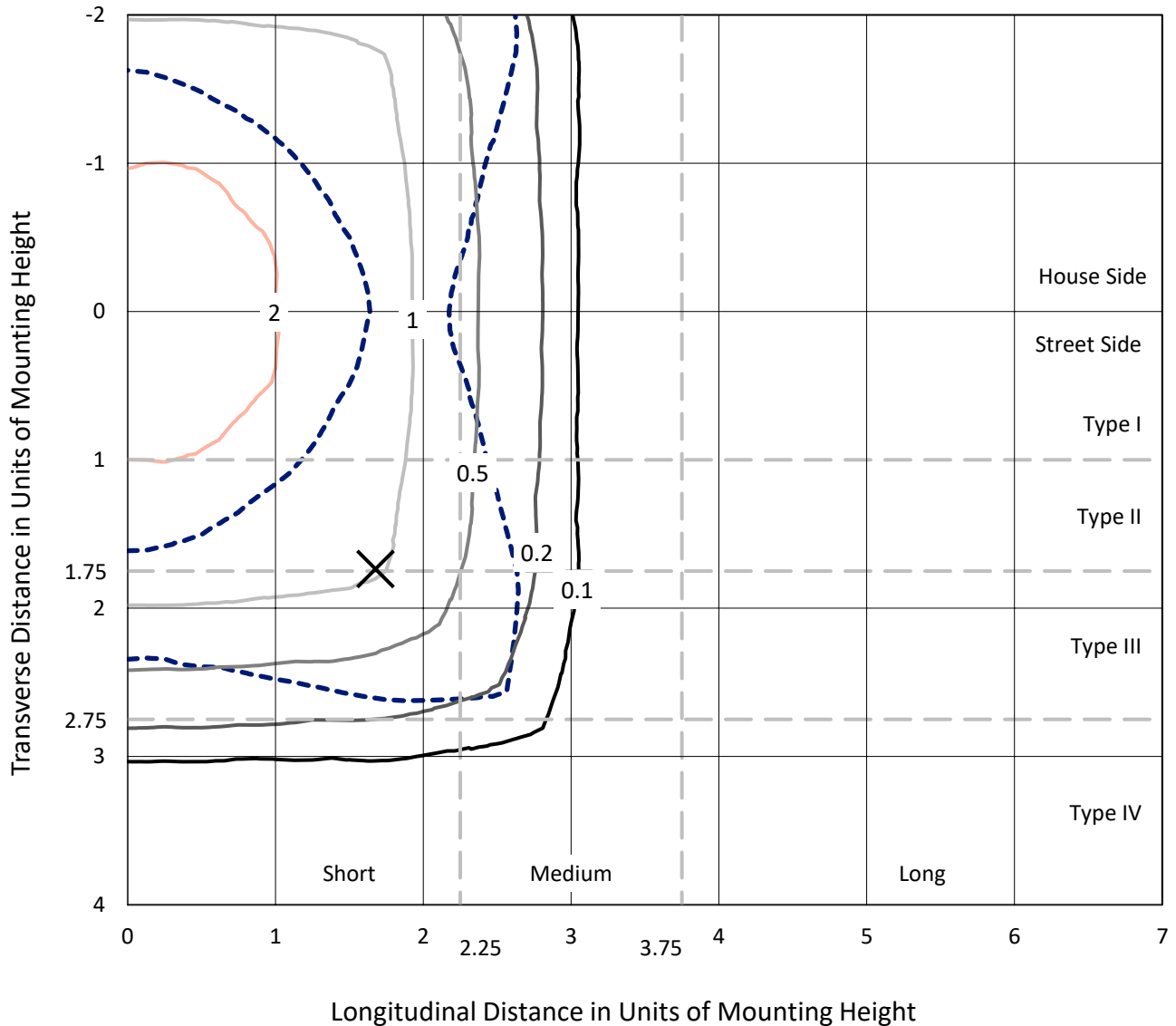
Lumens per Lamp: N/A  
Luminaire Lumens: 21381.3 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 160.8  
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

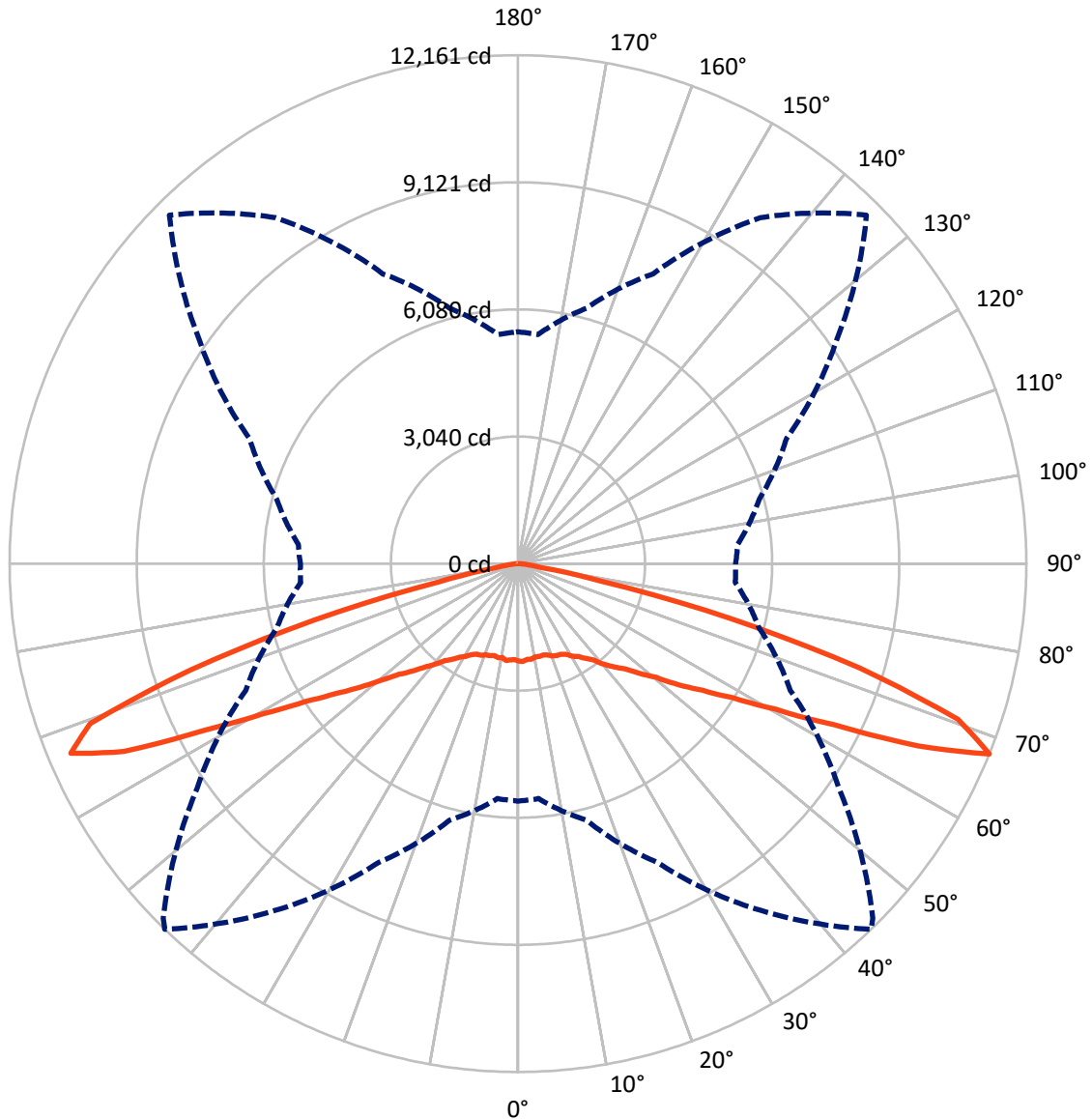
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	10663.3	0.0	10663.3
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	10718.0	0.0	10718.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	21381.3	0.0	21381.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.0	1.0
10°-20°	645.7	3.0
20°-30°	1098.0	5.1
30°-40°	1740.9	8.1
40°-50°	2838.8	13.3
50°-60°	4848.2	22.7
60°-70°	7374.1	34.5
70°-80°	2485.5	11.6
80°-90°	129.0	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°	21381.3	100.0
0°-180°	21381.3	100.0

**Coefficient of Utilization**



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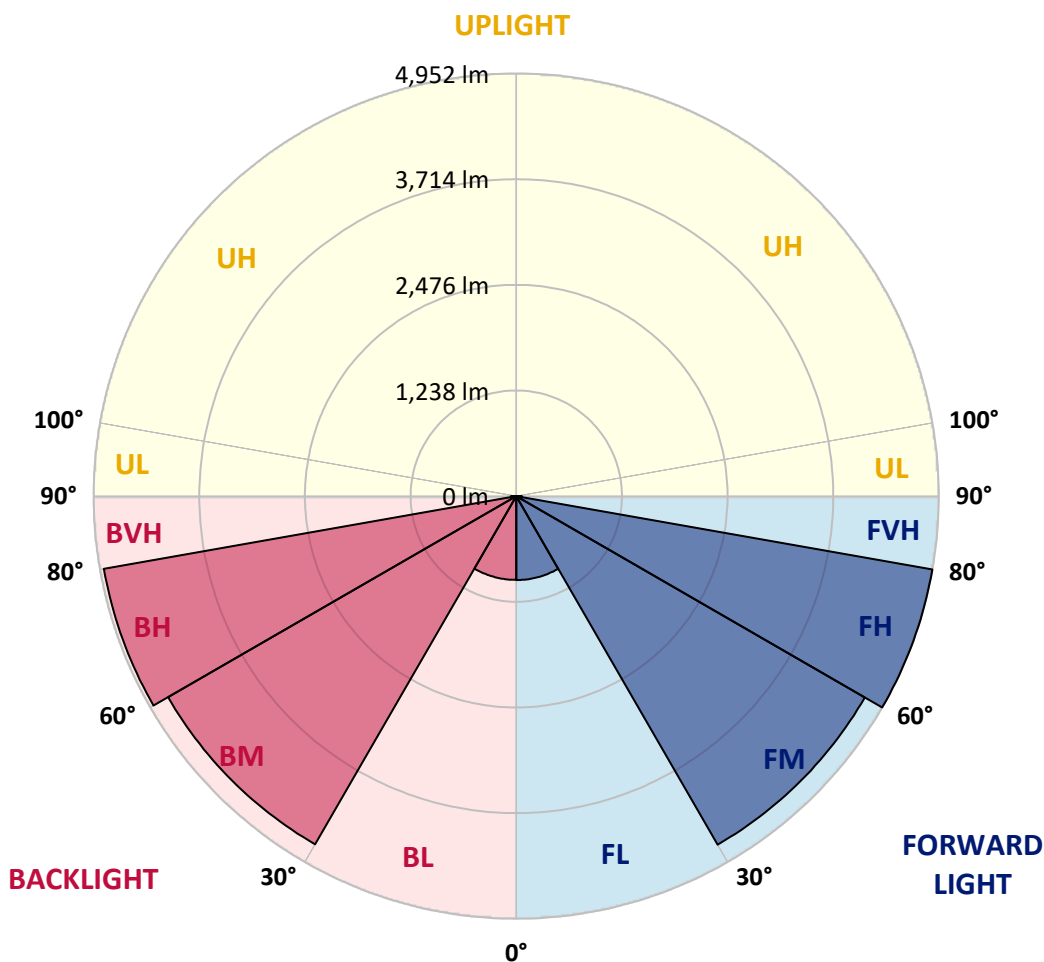
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.4	4.6			
FM (30°-60°)	4716.5	22.1			
FH (60°-80°)	4952.1	23.2			G2/5000
FVH (80°-90°)	66.0	0.3			G1/100
BL (0°-30°)	981.3	4.6	B2/1000		
BM (30°-60°)	4711.4	22.0	B3/5000		
BH (60°-80°)	4907.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	63.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5
2.5°	2281.8	2308.7	2328.2	2325.8	2333.1	2340.4	2330.7	2345.3	2335.5	2352.6	2362.4
5°	2325.8	2318.5	2320.9	2306.2	2340.4	2301.4	2301.4	2320.9	2345.3	2316.0	2333.1
7.5°	2298.9	2294.0	2281.8	2303.8	2311.1	2311.1	2330.7	2294.0	2335.5	2345.3	2347.7
10°	2269.6	2242.8	2279.4	2301.4	2306.2	2267.2	2284.3	2294.0	2281.8	2294.0	2301.4
12.5°	2245.2	2259.9	2259.9	2259.9	2252.6	2279.4	2296.5	2294.0	2269.6	2291.6	2252.6
15°	2242.8	2235.5	2257.4	2277.0	2264.8	2269.6	2277.0	2298.9	2252.6	2262.3	2262.3
17.5°	2240.4	2250.1	2257.4	2255.0	2296.5	2296.5	2289.2	2274.5	2311.1	2291.6	2264.8
20°	2250.1	2242.8	2262.3	2269.6	2298.9	2357.5	2335.5	2323.3	2303.8	2279.4	2279.4
22.5°	2262.3	2257.4	2284.3	2316.0	2372.1	2386.8	2384.3	2369.7	2335.5	2306.2	2301.4
25°	2306.2	2262.3	2291.6	2352.6	2372.1	2401.4	2421.0	2401.4	2355.1	2362.4	2318.5
27.5°	2372.1	2364.8	2403.9	2445.4	2428.3	2455.1	2438.0	2452.7	2455.1	2418.5	2374.6
30°	2450.2	2428.3	2452.7	2533.2	2540.5	2569.8	2540.5	2501.5	2513.7	2482.0	2460.0
32.5°	2562.5	2555.2	2601.5	2655.2	2665.0	2650.4	2635.7	2657.7	2606.4	2582.0	2543.0
35°	2635.7	2667.4	2723.6	2765.1	2796.8	2782.1	2789.5	2767.5	2779.7	2728.5	2711.4
37.5°	2852.9	2840.7	2852.9	2923.7	2931.0	2923.7	2931.0	2955.4	2938.3	2894.4	2850.5
40°	3057.9	3038.4	3067.7	3148.2	3143.3	3167.7	3118.9	3145.8	3145.8	3062.8	3045.7
42.5°	3211.7	3277.6	3311.7	3377.6	3402.0	3380.1	3370.3	3375.2	3428.9	3331.2	3294.6
45°	3528.9	3526.5	3629.0	3665.6	3597.3	3592.4	3572.9	3631.4	3668.0	3611.9	3597.3
47.5°	3873.0	3890.1	3948.7	3963.3	4004.8	3929.2	3929.2	3936.5	4065.8	3934.0	3865.7
50°	4183.0	4204.9	4322.1	4436.8	4358.7	4278.2	4309.9	4348.9	4419.7	4295.2	4236.7
52.5°	4558.8	4678.4	4756.5	4817.5	4873.6	4817.5	4744.3	4788.2	4927.3	4761.4	4688.2
55°	5100.6	5195.8	5269.0	5381.2	5427.6	5352.0	5344.6	5339.8	5417.9	5242.1	5142.1
57.5°	5705.8	5666.8	5783.9	5957.2	6125.6	6052.4	6030.4	6035.3	6054.8	5805.9	5730.2
60°	6457.5	6501.4	6640.5	6791.8	6970.0	7072.5	6928.5	6845.5	6862.6	6523.4	6406.2
62.5°	6887.0	6984.6	7299.5	7819.3	8178.0	8497.7	8519.7	7980.4	7619.2	6960.2	6462.4
65°	6679.6	6664.9	7258.0	8219.5	9578.9	10508.7	10369.6	9061.5	7799.8	6752.8	6084.1
67.5°	5681.4	5642.4	6359.9	7885.2	10130.4	12160.9	12002.3	9366.5	7189.6	5974.3	5217.7
70°	3660.7	3651.0	4429.5	6010.9	9044.4	11165.2	11223.7	8507.5	5852.3	4375.8	3626.5
72.5°	1330.1	1410.6	1862.1	3231.2	6142.7	8541.7	8578.3	6298.9	3365.4	2023.2	1491.1
75°	490.5	505.2	588.2	1049.4	2799.2	5244.6	5381.2	3055.5	1195.8	658.9	536.9
77.5°	283.1	285.5	314.8	390.5	829.8	2047.6	2130.5	927.4	463.7	351.4	324.6
80°	192.8	190.4	222.1	253.8	331.9	580.8	617.4	388.0	292.9	244.0	205.0
82.5°	112.3	119.6	163.5	180.6	202.6	256.2	261.1	241.6	219.6	180.6	134.2
85°	68.3	56.1	90.3	100.1	117.1	114.7	114.7	131.8	141.5	126.9	75.7
87.5°	17.1	17.1	22.0	24.4	31.7	24.4	26.8	51.2	68.3	63.5	39.0
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°	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5	2335.5
2.5°	2340.4	2333.1	2338.0	2364.8	2347.7	2296.5	2308.7	2335.5	2313.6	2301.4	2298.9
5°	2330.7	2345.3	2328.2	2333.1	2350.2	2308.7	2316.0	2350.2	2335.5	2340.4	2313.6
7.5°	2333.1	2340.4	2325.8	2303.8	2303.8	2338.0	2318.5	2323.3	2301.4	2338.0	2289.2
10°	2318.5	2298.9	2281.8	2294.0	2289.2	2279.4	2272.1	2286.7	2264.8	2296.5	2262.3
12.5°	2274.5	2279.4	2274.5	2269.6	2279.4	2303.8	2264.8	2269.6	2235.5	2240.4	2257.4
15°	2257.4	2272.1	2267.2	2294.0	2306.2	2269.6	2298.9	2269.6	2242.8	2228.2	2255.0
17.5°	2264.8	2286.7	2279.4	2298.9	2277.0	2303.8	2308.7	2296.5	2264.8	2252.6	2264.8
20°	2272.1	2264.8	2274.5	2308.7	2340.4	2313.6	2313.6	2306.2	2277.0	2259.9	2259.9
22.5°	2289.2	2277.0	2291.6	2318.5	2328.2	2369.7	2333.1	2316.0	2267.2	2223.3	2264.8
25°	2323.3	2330.7	2340.4	2330.7	2384.3	2379.5	2374.6	2362.4	2286.7	2289.2	2281.8
27.5°	2389.2	2347.7	2359.9	2418.5	2425.8	2445.4	2421.0	2442.9	2362.4	2364.8	2316.0
30°	2469.8	2425.8	2464.9	2516.1	2513.7	2550.3	2538.1	2543.0	2486.8	2455.1	2389.2
32.5°	2557.6	2552.7	2577.1	2608.9	2621.1	2640.6	2638.2	2638.2	2604.0	2521.0	2533.2
35°	2655.2	2689.4	2718.7	2752.9	2757.7	2782.1	2748.0	2752.9	2718.7	2657.7	2677.2
37.5°	2848.0	2845.6	2877.3	2918.8	2923.7	2904.2	2931.0	2918.8	2872.4	2831.0	2799.2
40°	3072.6	3023.7	3053.0	3150.7	3158.0	3123.8	3121.4	3118.9	3084.8	2994.5	2974.9
42.5°	3267.8	3331.2	3326.4	3358.1	3336.1	3319.0	3380.1	3345.9	3319.0	3223.9	3206.8
45°	3519.2	3538.7	3602.1	3704.6	3599.7	3599.7	3641.2	3614.3	3599.7	3528.9	3463.0
47.5°	3831.5	3848.6	3975.5	3982.9	3914.5	3868.2	3997.5	4002.4	3941.4	3887.7	3807.1
50°	4197.6	4204.9	4319.6	4436.8	4361.1	4273.3	4405.1	4456.3	4319.6	4246.4	4146.4
52.5°	4600.3	4578.3	4673.5	4893.2	4819.9	4793.1	4934.6	4946.8	4761.4	4646.7	4673.5
55°	5064.0	5034.7	5293.4	5442.3	5395.9	5347.1	5410.5	5439.8	5291.0	5103.0	5168.9
57.5°	5664.3	5679.0	5808.3	5954.8	6030.4	6042.6	6071.9	6042.6	5891.3	5701.0	5639.9
60°	6264.7	6308.6	6560.0	6835.8	6860.2	7074.9	7035.9	6889.5	6674.7	6403.8	6416.0
62.5°	6486.8	6450.2	6855.3	7528.9	8102.4	8495.3	8322.0	7802.2	7304.3	6811.4	6848.0
65°	6040.2	6130.5	6682.0	7736.3	8981.0	10535.5	9613.0	8175.6	7170.1	6533.2	6462.4
67.5°	5205.5	5273.9	5974.3	7087.1	9295.8	11789.9	10101.1	7648.5	6323.3	5498.4	5542.3
70°	3626.5	3660.7	4346.5	5805.9	8429.4	11126.1	9112.7	5874.2	4366.0	3480.1	3528.9
72.5°	1459.4	1542.4	1993.9	3497.2	6223.2	8453.8	6135.4	3082.3	1810.8	1347.1	1222.7
75°	539.3	541.8	637.0	1203.2	2955.4	5312.9	2767.5	990.8	578.4	473.5	451.5
77.5°	312.4	309.9	331.9	434.4	856.6	2074.4	785.8	388.0	314.8	283.1	270.9
80°	195.2	192.8	227.0	288.0	375.8	568.6	331.9	241.6	212.3	183.0	183.0
82.5°	124.5	126.9	178.2	212.3	229.4	251.4	192.8	170.8	158.6	104.9	102.5
85°	80.5	73.2	124.5	141.5	126.9	112.3	107.4	90.3	83.0	51.2	56.1
87.5°	36.6	39.0	63.5	70.8	46.4	26.8	26.8	19.5	19.5	12.2	12.2
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)