

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: P479486

Luminaire Tested: **IFLD-S-SA3E-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479486  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

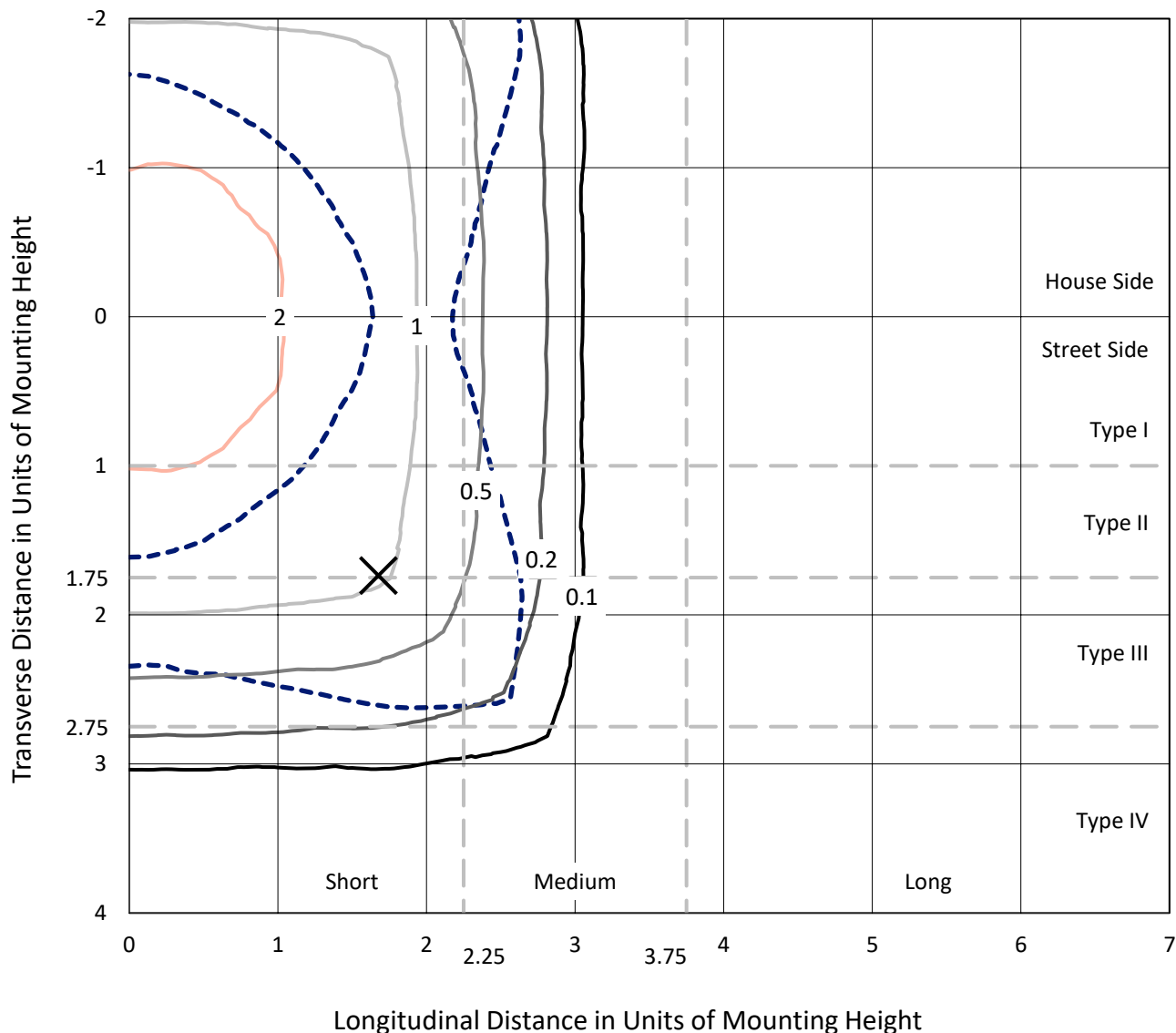
Lumens per Lamp: N/A  
Luminaire Lumens: 21634.7 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 232.1  
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

REPORT NUMBER: P479486  
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### Iso-Footcandle Lines of Horizontal Illumination

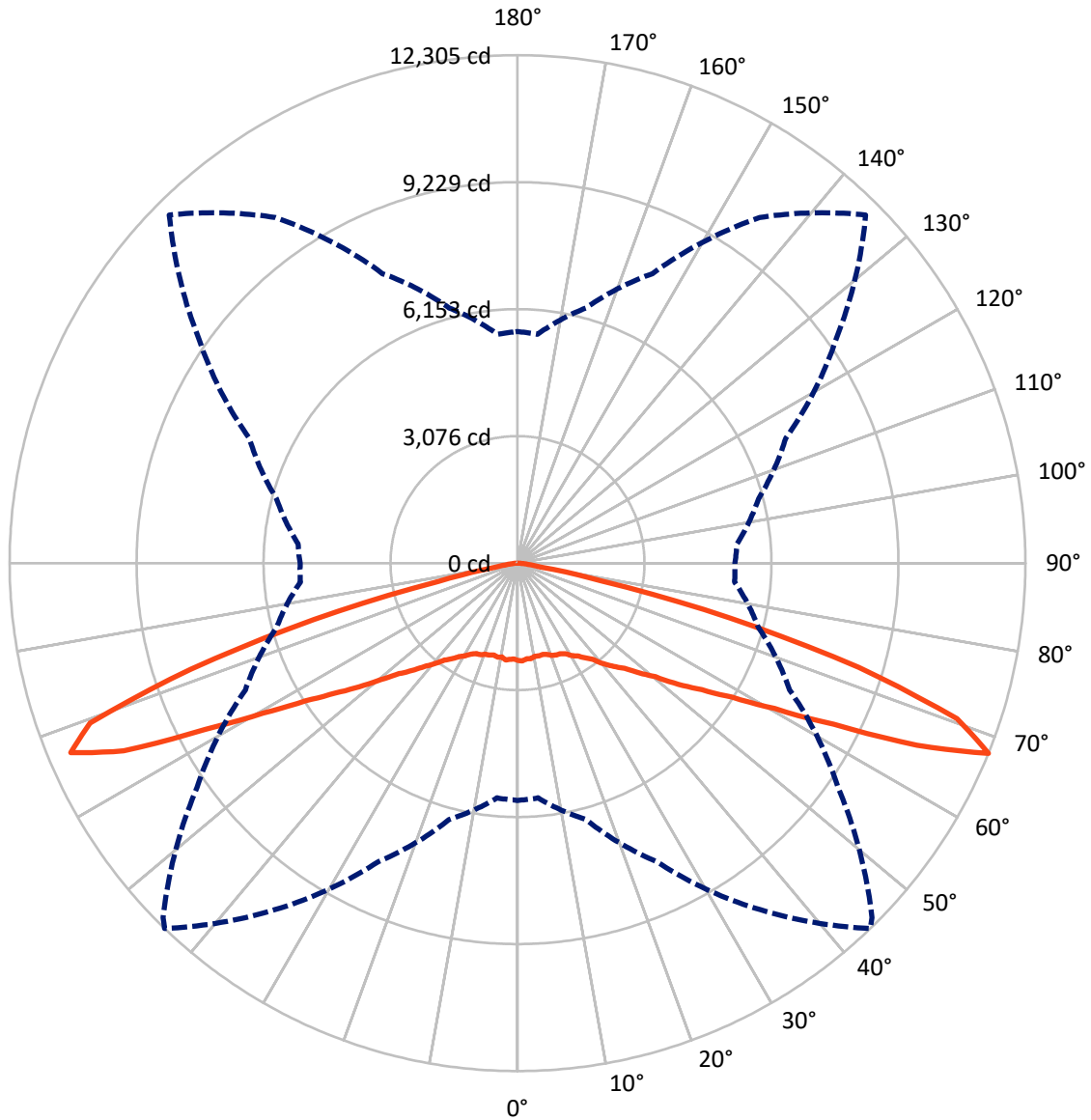
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P479486  
CATALOG NUMBER: IFLD-S-SA3E-830-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P479486

CATALOG NUMBER: IFLD-S-SA3E-830-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10789.6	0.0	10789.6
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	10845.0	0.0	10845.0
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	21634.7	0.0	21634.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.6	1.0
10°-20°	653.3	3.0
20°-30°	1111.0	5.1
30°-40°	1761.6	8.1
40°-50°	2872.4	13.3
50°-60°	4905.7	22.7
60°-70°	7461.5	34.5
70°-80°	2515.0	11.6
80°-90°	130.6	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°	21634.7	100.0
0°-180°	21634.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479486

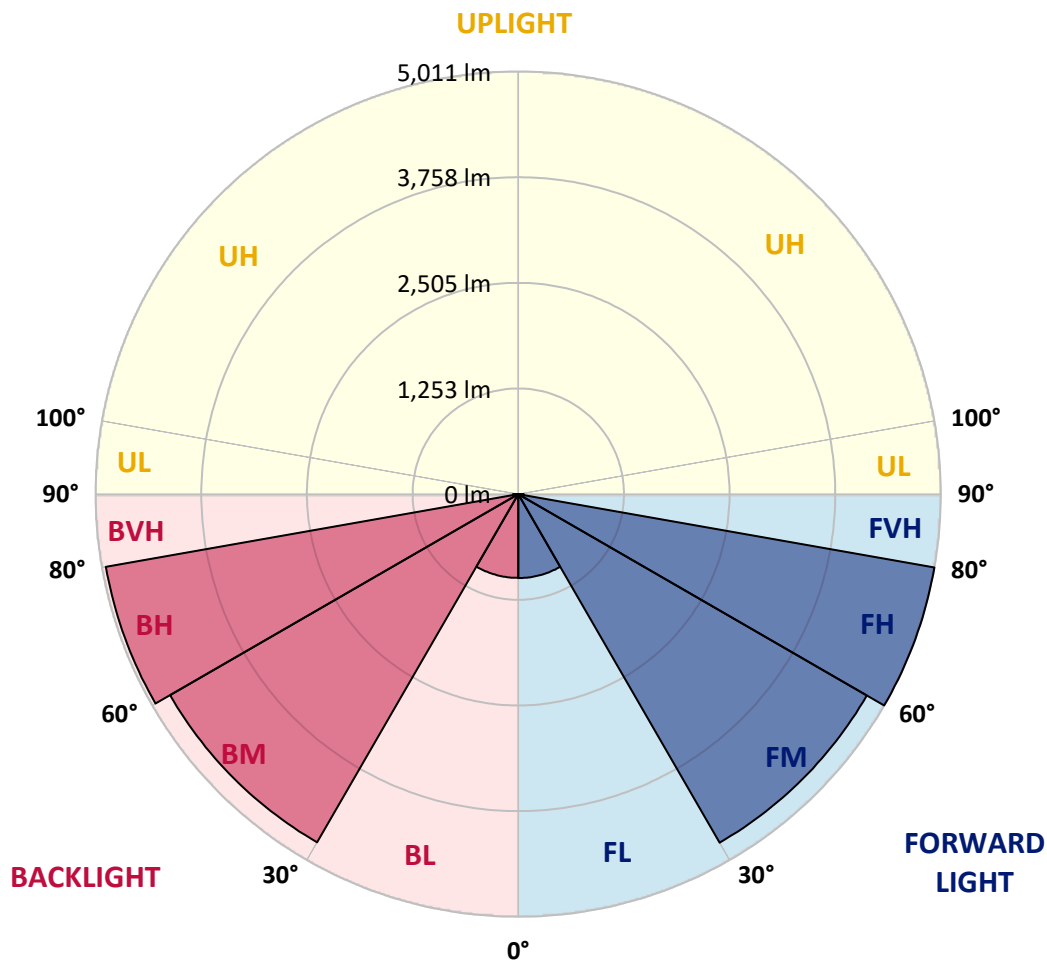
CATALOG NUMBER: IFLD-S-SA3E-830-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.0	4.6			
FM (30°-60°)	4772.4	22.1			
FH (60°-80°)	5010.8	23.2			G3/7500
FVH (80°-90°)	66.8	0.3			G1/100
BL (0°-30°)	993.0	4.6	B2/1000		
BM (30°-60°)	4767.2	22.0	B3/5000		
BH (60°-80°)	4965.6	23.0	B4/5000		G2/5000
BVH (80°-90°)	63.8	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-G3**

Type V Short





REPORT NUMBER: P479486  
 CATALOG NUMBER: IFLD-S-SA3E-830-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2
2.5°	2308.9	2336.1	2355.8	2353.3	2360.7	2368.2	2358.3	2373.1	2363.2	2380.5	2390.4
5°	2353.3	2345.9	2348.4	2333.6	2368.2	2328.6	2328.6	2348.4	2373.1	2343.5	2360.7
7.5°	2326.2	2321.2	2308.9	2331.1	2338.5	2338.5	2358.3	2321.2	2363.2	2373.1	2375.6
10°	2296.5	2269.4	2306.4	2328.6	2333.6	2294.1	2311.4	2321.2	2308.9	2321.2	2328.6
12.5°	2271.8	2286.7	2286.7	2286.7	2279.3	2306.4	2323.7	2321.2	2296.5	2318.8	2279.3
15°	2269.4	2262.0	2284.2	2303.9	2291.6	2296.5	2303.9	2326.2	2279.3	2289.1	2289.1
17.5°	2266.9	2276.8	2284.2	2281.7	2323.7	2323.7	2316.3	2301.5	2338.5	2318.8	2291.6
20°	2276.8	2269.4	2289.1	2296.5	2326.2	2385.4	2363.2	2350.9	2331.1	2306.4	2306.4
22.5°	2289.1	2284.2	2311.4	2343.5	2400.3	2415.1	2412.6	2397.8	2363.2	2333.6	2328.6
25°	2333.6	2289.1	2318.8	2380.5	2400.3	2429.9	2449.6	2429.9	2383.0	2390.4	2345.9
27.5°	2400.3	2392.8	2432.4	2474.3	2457.1	2484.2	2466.9	2481.7	2484.2	2447.2	2402.7
30°	2479.3	2457.1	2481.7	2563.2	2570.6	2600.3	2570.6	2531.1	2543.5	2511.4	2489.2
32.5°	2592.9	2585.5	2632.4	2686.7	2696.6	2681.8	2667.0	2689.2	2637.3	2612.6	2573.1
35°	2667.0	2699.1	2755.9	2797.8	2829.9	2815.1	2822.5	2800.3	2812.6	2760.8	2743.5
37.5°	2886.7	2874.4	2886.7	2958.3	2965.7	2958.3	2965.7	2990.4	2973.2	2928.7	2884.3
40°	3094.2	3074.4	3104.0	3185.5	3180.6	3205.3	3155.9	3183.1	3183.1	3099.1	3081.8
42.5°	3249.7	3316.4	3351.0	3417.6	3442.3	3420.1	3410.2	3415.2	3469.5	3370.7	3333.7
45°	3570.8	3568.3	3672.0	3709.0	3639.9	3635.0	3615.2	3674.5	3711.5	3654.7	3639.9
47.5°	3918.9	3936.2	3995.5	4010.3	4052.3	3975.7	3975.7	3983.1	4114.0	3980.7	3911.5
50°	4232.6	4254.8	4373.3	4489.4	4410.3	4328.9	4361.0	4400.5	4472.1	4346.1	4286.9
52.5°	4612.8	4733.8	4812.9	4874.6	4931.4	4874.6	4800.5	4845.0	4985.7	4817.8	4743.7
55°	5161.0	5257.4	5331.4	5445.0	5491.9	5415.4	5408.0	5403.0	5482.1	5304.3	5203.0
57.5°	5773.5	5733.9	5852.5	6027.8	6198.2	6124.1	6101.9	6106.8	6126.6	5874.7	5798.2
60°	6534.0	6578.5	6719.2	6872.3	7052.6	7156.3	7010.6	6926.7	6944.0	6600.7	6482.2
62.5°	6968.6	7067.4	7386.0	7912.0	8275.0	8598.4	8620.7	8074.9	7709.5	7042.7	6539.0
65°	6758.7	6743.9	7344.0	8316.9	9692.4	10633.2	10492.5	9168.9	7892.2	6832.8	6156.2
67.5°	5748.8	5709.3	6435.3	7978.6	10250.5	12305.0	12144.5	9477.6	7274.9	6045.1	5279.6
70°	3704.1	3694.2	4482.0	6082.1	9151.6	11297.5	11356.8	8608.3	5921.6	4427.6	3669.5
72.5°	1345.8	1427.3	1884.2	3269.5	6215.5	8642.9	8679.9	6373.5	3405.3	2047.1	1508.8
75°	496.3	511.2	595.1	1061.8	2832.4	5306.7	5445.0	3091.7	1210.0	666.7	543.3
77.5°	286.5	288.9	318.6	395.1	839.6	2071.8	2155.8	938.4	469.2	355.6	328.4
80°	195.1	192.6	224.7	256.8	335.8	587.7	624.8	392.6	296.3	246.9	207.4
82.5°	113.6	121.0	165.4	182.7	205.0	259.3	264.2	244.5	222.2	182.7	135.8
85°	69.1	56.8	91.4	101.2	118.5	116.1	116.1	133.3	143.2	128.4	76.6
87.5°	17.3	17.3	22.2	24.7	32.1	24.7	27.2	51.9	69.1	64.2	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°	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2	2363.2
2.5°	2368.2	2360.7	2365.7	2392.8	2375.6	2323.7	2336.1	2363.2	2341.0	2328.6	2326.2
5°	2358.3	2373.1	2355.8	2360.7	2378.0	2336.1	2343.5	2378.0	2363.2	2368.2	2341.0
7.5°	2360.7	2368.2	2353.3	2331.1	2331.1	2365.7	2345.9	2350.9	2328.6	2365.7	2316.3
10°	2345.9	2326.2	2308.9	2321.2	2316.3	2306.4	2299.0	2313.8	2291.6	2323.7	2289.1
12.5°	2301.5	2306.4	2301.5	2296.5	2306.4	2331.1	2291.6	2296.5	2262.0	2266.9	2284.2
15°	2284.2	2299.0	2294.1	2321.2	2333.6	2296.5	2326.2	2296.5	2269.4	2254.6	2281.7
17.5°	2291.6	2313.8	2306.4	2326.2	2303.9	2331.1	2336.1	2323.7	2291.6	2279.3	2291.6
20°	2299.0	2291.6	2301.5	2336.1	2368.2	2341.0	2341.0	2333.6	2303.9	2286.7	2286.7
22.5°	2316.3	2303.9	2318.8	2345.9	2355.8	2397.8	2360.7	2343.5	2294.1	2249.6	2291.6
25°	2350.9	2358.3	2368.2	2358.3	2412.6	2407.7	2402.7	2390.4	2313.8	2316.3	2308.9
27.5°	2417.5	2375.6	2387.9	2447.2	2454.6	2474.3	2449.6	2471.9	2390.4	2392.8	2343.5
30°	2499.0	2454.6	2494.1	2546.0	2543.5	2580.5	2568.2	2573.1	2516.3	2484.2	2417.5
32.5°	2587.9	2583.0	2607.7	2639.8	2652.1	2671.9	2669.4	2669.4	2634.8	2550.9	2563.2
35°	2686.7	2721.3	2750.9	2785.5	2790.4	2815.1	2780.5	2785.5	2750.9	2689.2	2708.9
37.5°	2881.8	2879.3	2911.4	2953.4	2958.3	2938.6	2965.7	2953.4	2906.5	2864.5	2832.4
40°	3109.0	3059.6	3089.2	3188.0	3195.4	3160.8	3158.4	3155.9	3121.3	3030.0	3010.2
42.5°	3306.5	3370.7	3365.8	3397.9	3375.7	3358.4	3420.1	3385.5	3358.4	3262.1	3244.8
45°	3560.9	3580.6	3644.8	3748.5	3642.4	3642.4	3684.3	3657.2	3642.4	3570.8	3504.1
47.5°	3877.0	3894.2	4022.7	4030.1	3960.9	3914.0	4044.9	4049.8	3988.1	3933.8	3852.3
50°	4247.4	4254.8	4370.8	4489.4	4412.8	4323.9	4457.3	4509.1	4370.8	4296.8	4195.5
52.5°	4654.8	4632.6	4728.9	4951.1	4877.1	4849.9	4993.1	5005.5	4817.8	4701.7	4728.9
55°	5124.0	5094.4	5356.1	5506.8	5459.8	5410.5	5474.7	5504.3	5353.7	5163.5	5230.2
57.5°	5731.5	5746.3	5877.2	6025.3	6101.9	6114.2	6143.9	6114.2	5961.1	5768.5	5706.8
60°	6338.9	6383.4	6637.7	6916.8	6941.5	7158.8	7119.3	6971.1	6753.8	6479.7	6492.1
62.5°	6563.7	6526.6	6936.5	7618.1	8198.4	8596.0	8420.7	7894.7	7390.9	6892.1	6929.1
65°	6111.8	6203.1	6761.2	7828.0	9087.4	10660.4	9727.0	8272.5	7255.1	6610.6	6539.0
67.5°	5267.2	5336.4	6045.1	7171.1	9405.9	11929.7	10220.8	7739.1	6398.2	5563.6	5608.0
70°	3669.5	3704.1	4398.0	5874.7	8529.3	11258.0	9220.7	5943.8	4417.8	3521.4	3570.8
72.5°	1476.7	1560.7	2017.5	3538.6	6297.0	8554.0	6208.1	3118.9	1832.3	1363.1	1237.2
75°	545.7	548.2	644.5	1217.4	2990.4	5375.9	2800.3	1002.6	585.2	479.1	456.8
77.5°	316.1	313.6	335.8	439.6	866.8	2099.0	795.1	392.6	318.6	286.5	274.1
80°	197.6	195.1	229.7	291.4	380.3	575.4	335.8	244.5	214.8	185.2	185.2
82.5°	125.9	128.4	180.3	214.8	232.1	254.3	195.1	172.9	160.5	106.2	103.7
85°	81.5	74.1	125.9	143.2	128.4	113.6	108.7	91.4	84.0	51.9	56.8
87.5°	37.0	39.5	64.2	71.6	46.9	27.2	27.2	19.8	19.8	12.3	12.3
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)