

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: P479270

Luminaire Tested: **IFLD-M-SA4C-730-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479270  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

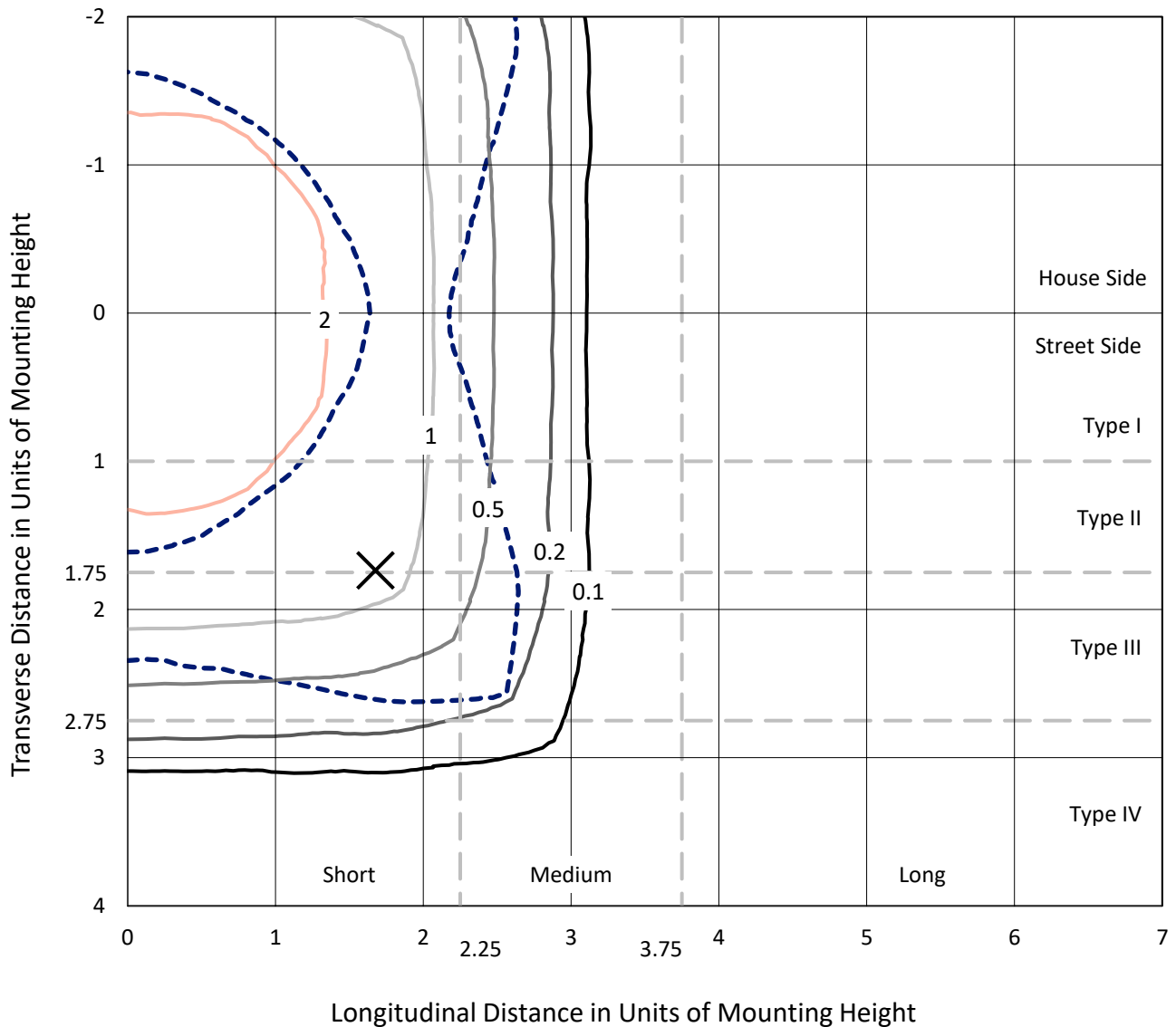
Lumens per Lamp: N/A  
Luminaire Lumens: 26133.5 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 218.1  
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

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### Iso-Footcandle Lines of Horizontal Illumination

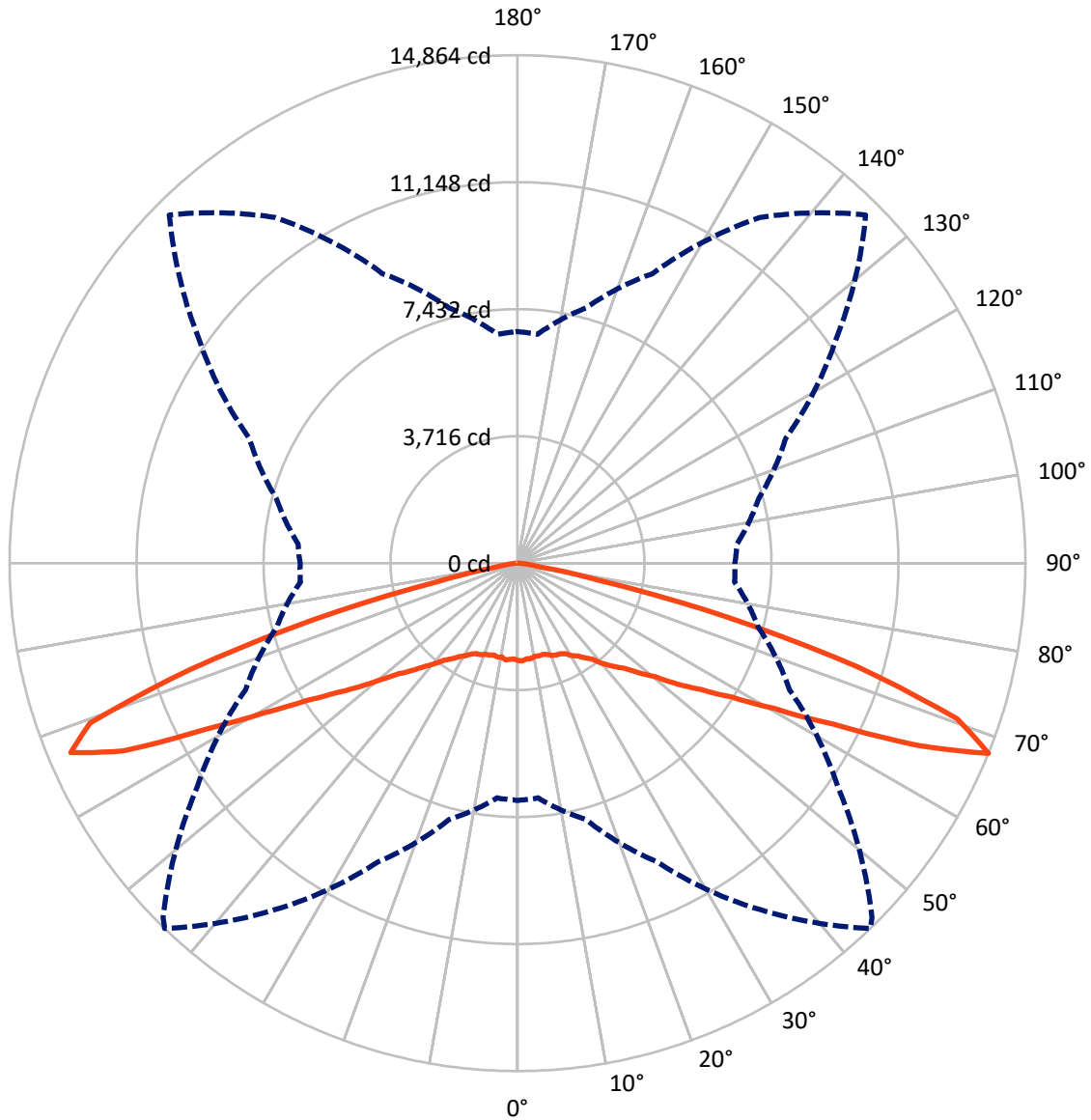
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P479270  
CATALOG NUMBER: IFLD-M-SA4C-730-U-5MQ

### 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	13033.3	0.0	13033.3
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	13100.2	0.0	13100.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	26133.5	0.0	26133.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	270.1	1.0
10°-20°	789.2	3.0
20°-30°	1342.1	5.1
30°-40°	2127.9	8.1
40°-50°	3469.7	13.3
50°-60°	5925.8	22.7
60°-70°	9013.0	34.5
70°-80°	3038.0	11.6
80°-90°	157.7	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°	26133.5	100.0
0°-180°	26133.5	100.0

**Coefficient of Utilization**



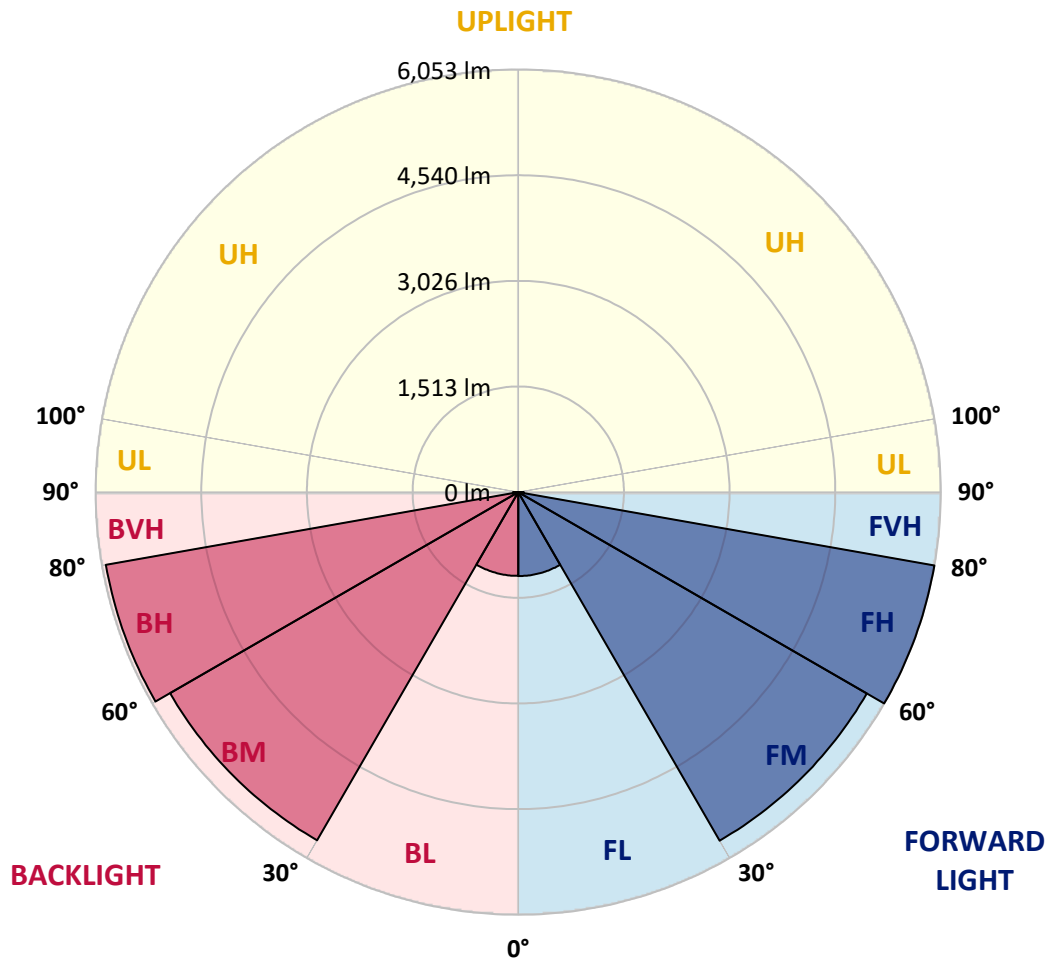
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 CATALOG NUMBER: IFLD-M-SA4C-730-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.9	4.6			
FM (30°-60°)	5764.8	22.1			
FH (60°-80°)	6052.8	23.2			G3/7500
FVH (80°-90°)	80.7	0.3			G1/100
BL (0°-30°)	1199.5	4.6	B3/2500		
BM (30°-60°)	5758.6	22.0	B4/8500		
BH (60°-80°)	5998.2	23.0	B5		G3/7500
BVH (80°-90°)	77.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6
2.5°	2789.0	2821.8	2845.7	2842.7	2851.6	2860.6	2848.7	2866.6	2854.6	2875.5	2887.4
5°	2842.7	2833.8	2836.7	2818.8	2860.6	2812.9	2812.9	2836.7	2866.6	2830.8	2851.6
7.5°	2809.9	2803.9	2789.0	2815.9	2824.8	2824.8	2848.7	2803.9	2854.6	2866.6	2869.5
10°	2774.1	2741.3	2786.0	2812.9	2818.8	2771.1	2792.0	2803.9	2789.0	2803.9	2812.9
12.5°	2744.3	2762.2	2762.2	2762.2	2753.2	2786.0	2806.9	2803.9	2774.1	2800.9	2753.2
15°	2741.3	2732.3	2759.2	2783.0	2768.1	2774.1	2783.0	2809.9	2753.2	2765.1	2765.1
17.5°	2738.3	2750.2	2759.2	2756.2	2806.9	2806.9	2798.0	2780.1	2824.8	2800.9	2768.1
20°	2750.2	2741.3	2765.1	2774.1	2809.9	2881.5	2854.6	2839.7	2815.9	2786.0	2786.0
22.5°	2765.1	2759.2	2792.0	2830.8	2899.4	2917.3	2914.3	2896.4	2854.6	2818.8	2812.9
25°	2818.8	2765.1	2800.9	2875.5	2899.4	2935.2	2959.0	2935.2	2878.5	2887.4	2833.8
27.5°	2899.4	2890.4	2938.2	2988.9	2968.0	3000.8	2979.9	2997.8	3000.8	2956.1	2902.4
30°	2994.8	2968.0	2997.8	3096.2	3105.2	3141.0	3105.2	3057.5	3072.4	3033.6	3006.8
32.5°	3132.0	3123.1	3179.8	3245.4	3257.3	3239.4	3221.5	3248.4	3185.7	3155.9	3108.2
35°	3221.5	3260.3	3328.9	3379.6	3418.4	3400.5	3409.5	3382.6	3397.5	3334.9	3314.0
37.5°	3487.0	3472.1	3487.0	3573.5	3582.5	3573.5	3582.5	3612.3	3591.4	3537.7	3484.0
40°	3737.6	3713.7	3749.5	3847.9	3842.0	3871.8	3812.1	3845.0	3845.0	3743.5	3722.7
42.5°	3925.5	4006.0	4047.8	4128.3	4158.2	4131.3	4119.4	4125.3	4191.0	4071.7	4026.9
45°	4313.3	4310.3	4435.6	4480.3	4396.8	4390.8	4367.0	4438.6	4483.3	4414.7	4396.8
47.5°	4733.9	4754.7	4826.3	4844.2	4894.9	4802.5	4802.5	4811.4	4969.5	4808.4	4724.9
50°	5112.7	5139.5	5282.7	5422.9	5327.5	5229.0	5267.8	5315.5	5402.0	5249.9	5178.3
52.5°	5572.1	5718.2	5813.7	5888.2	5956.8	5888.2	5798.8	5852.4	6022.5	5819.6	5730.1
55°	6234.3	6350.6	6440.1	6577.3	6634.0	6541.5	6532.5	6526.6	6622.0	6407.3	6285.0
57.5°	6974.0	6926.3	7069.5	7281.3	7487.1	7397.6	7370.7	7376.7	7400.6	7096.3	7003.8
60°	7892.7	7946.4	8116.5	8301.4	8519.2	8644.4	8468.4	8367.0	8387.9	7973.3	7830.1
62.5°	8417.7	8537.1	8921.8	9557.2	9995.7	10386.4	10413.3	9754.1	9312.6	8507.2	7898.7
65°	8164.2	8146.3	8871.1	10046.4	11707.9	12844.4	12674.3	11075.5	9533.3	8253.7	7436.4
67.5°	6944.2	6896.5	7773.4	9637.7	12382.0	14863.8	14669.9	11448.4	8787.6	7302.1	6377.4
70°	4474.3	4462.4	5414.0	7346.9	11054.6	13646.8	13718.3	10398.4	7153.0	5348.3	4432.6
72.5°	1625.7	1724.1	2276.0	3949.4	7508.0	10440.1	10484.9	7698.9	4113.4	2472.8	1822.5
75°	599.6	617.5	718.9	1282.6	3421.4	6410.2	6577.3	3734.6	1461.6	805.4	656.2
77.5°	346.0	349.0	384.8	477.3	1014.2	2502.7	2604.1	1133.5	566.8	429.5	396.7
80°	235.6	232.7	271.4	310.2	405.7	709.9	754.7	474.3	357.9	298.3	250.6
82.5°	137.2	146.2	199.9	220.7	247.6	313.2	319.2	295.3	268.5	220.7	164.1
85°	83.5	68.6	110.4	122.3	143.2	140.2	140.2	161.1	173.0	155.1	92.5
87.5°	20.9	20.9	26.8	29.8	38.8	29.8	32.8	62.6	83.5	77.6	47.7
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°	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6	2854.6
2.5°	2860.6	2851.6	2857.6	2890.4	2869.5	2806.9	2821.8	2854.6	2827.8	2812.9	2809.9
5°	2848.7	2866.6	2845.7	2851.6	2872.5	2821.8	2830.8	2872.5	2854.6	2860.6	2827.8
7.5°	2851.6	2860.6	2842.7	2815.9	2815.9	2857.6	2833.8	2839.7	2812.9	2857.6	2798.0
10°	2833.8	2809.9	2789.0	2803.9	2798.0	2786.0	2777.1	2795.0	2768.1	2806.9	2765.1
12.5°	2780.1	2786.0	2780.1	2774.1	2786.0	2815.9	2768.1	2774.1	2732.3	2738.3	2759.2
15°	2759.2	2777.1	2771.1	2803.9	2818.8	2774.1	2809.9	2774.1	2741.3	2723.4	2756.2
17.5°	2768.1	2795.0	2786.0	2809.9	2783.0	2815.9	2821.8	2806.9	2768.1	2753.2	2768.1
20°	2777.1	2768.1	2780.1	2821.8	2860.6	2827.8	2827.8	2818.8	2783.0	2762.2	2762.2
22.5°	2798.0	2783.0	2800.9	2833.8	2845.7	2896.4	2851.6	2830.8	2771.1	2717.4	2768.1
25°	2839.7	2848.7	2860.6	2848.7	2914.3	2908.3	2902.4	2887.4	2795.0	2798.0	2789.0
27.5°	2920.3	2869.5	2884.5	2956.1	2965.0	2988.9	2959.0	2985.9	2887.4	2890.4	2830.8
30°	3018.7	2965.0	3012.7	3075.4	3072.4	3117.1	3102.2	3108.2	3039.6	3000.8	2920.3
32.5°	3126.1	3120.1	3149.9	3188.7	3203.6	3227.5	3224.5	3224.5	3182.8	3081.3	3096.2
35°	3245.4	3287.2	3322.9	3364.7	3370.7	3400.5	3358.7	3364.7	3322.9	3248.4	3272.2
37.5°	3481.0	3478.1	3516.8	3567.5	3573.5	3549.6	3582.5	3567.5	3510.9	3460.2	3421.4
40°	3755.5	3695.8	3731.6	3850.9	3859.9	3818.1	3815.1	3812.1	3770.4	3660.0	3636.2
42.5°	3994.1	4071.7	4065.7	4104.5	4077.6	4056.7	4131.3	4089.6	4056.7	3940.4	3919.5
45°	4301.3	4325.2	4402.8	4528.0	4399.8	4399.8	4450.5	4417.7	4399.8	4313.3	4232.7
47.5°	4683.1	4704.0	4859.1	4868.1	4784.6	4727.9	4886.0	4892.0	4817.4	4751.8	4653.3
50°	5130.6	5139.5	5279.7	5422.9	5330.4	5223.1	5384.1	5446.8	5279.7	5190.2	5067.9
52.5°	5622.8	5595.9	5712.2	5980.7	5891.2	5858.4	6031.4	6046.3	5819.6	5679.4	5712.2
55°	6189.5	6153.7	6469.9	6651.9	6595.2	6535.5	6613.1	6648.9	6466.9	6237.2	6317.8
57.5°	6923.3	6941.2	7099.3	7278.3	7370.7	7385.7	7421.4	7385.7	7200.7	6968.0	6893.5
60°	7657.1	7710.8	8018.0	8355.1	8384.9	8647.4	8599.7	8420.7	8158.2	7827.1	7842.0
62.5°	7928.5	7883.8	8379.0	9202.2	9903.2	10383.5	10171.7	9536.3	8927.8	8325.3	8370.0
65°	7382.7	7493.0	8167.2	9455.8	10977.1	12877.2	11749.6	9992.7	8763.8	7985.2	7898.7
67.5°	6362.5	6446.0	7302.1	8662.3	11361.9	14410.4	12346.2	9348.4	7728.7	6720.5	6774.2
70°	4432.6	4474.3	5312.5	7096.3	10302.9	13599.0	11138.1	7179.8	5336.4	4253.6	4313.3
72.5°	1783.8	1885.2	2437.0	4274.5	7606.4	10332.8	7499.0	3767.4	2213.3	1646.6	1494.4
75°	659.2	662.2	778.5	1470.6	3612.3	6493.8	3382.6	1211.1	706.9	578.7	551.8
77.5°	381.8	378.8	405.7	531.0	1047.0	2535.5	960.5	474.3	384.8	346.0	331.1
80°	238.6	235.6	277.4	352.0	459.4	695.0	405.7	295.3	259.5	223.7	223.7
82.5°	152.1	155.1	217.8	259.5	280.4	307.2	235.6	208.8	193.9	128.3	125.3
85°	98.4	89.5	152.1	173.0	155.1	137.2	131.2	110.4	101.4	62.6	68.6
87.5°	44.7	47.7	77.6	86.5	56.7	32.8	32.8	23.9	23.9	14.9	14.9
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)