

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: P477613

Luminaire Tested: **IFLD-S-SA3D-722-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477613  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-722-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

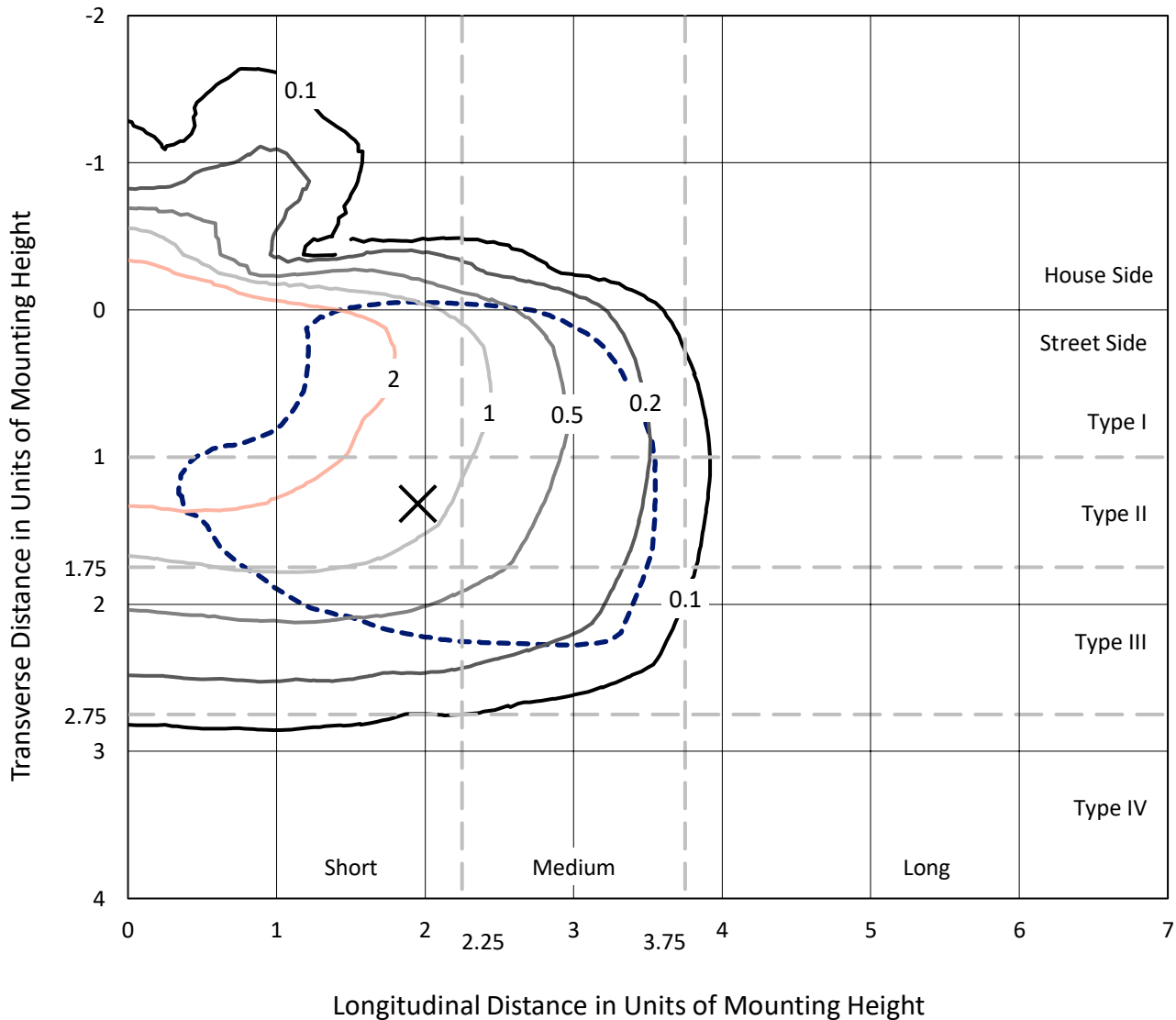
Lumens per Lamp: N/A  
Luminaire Lumens: 16864 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

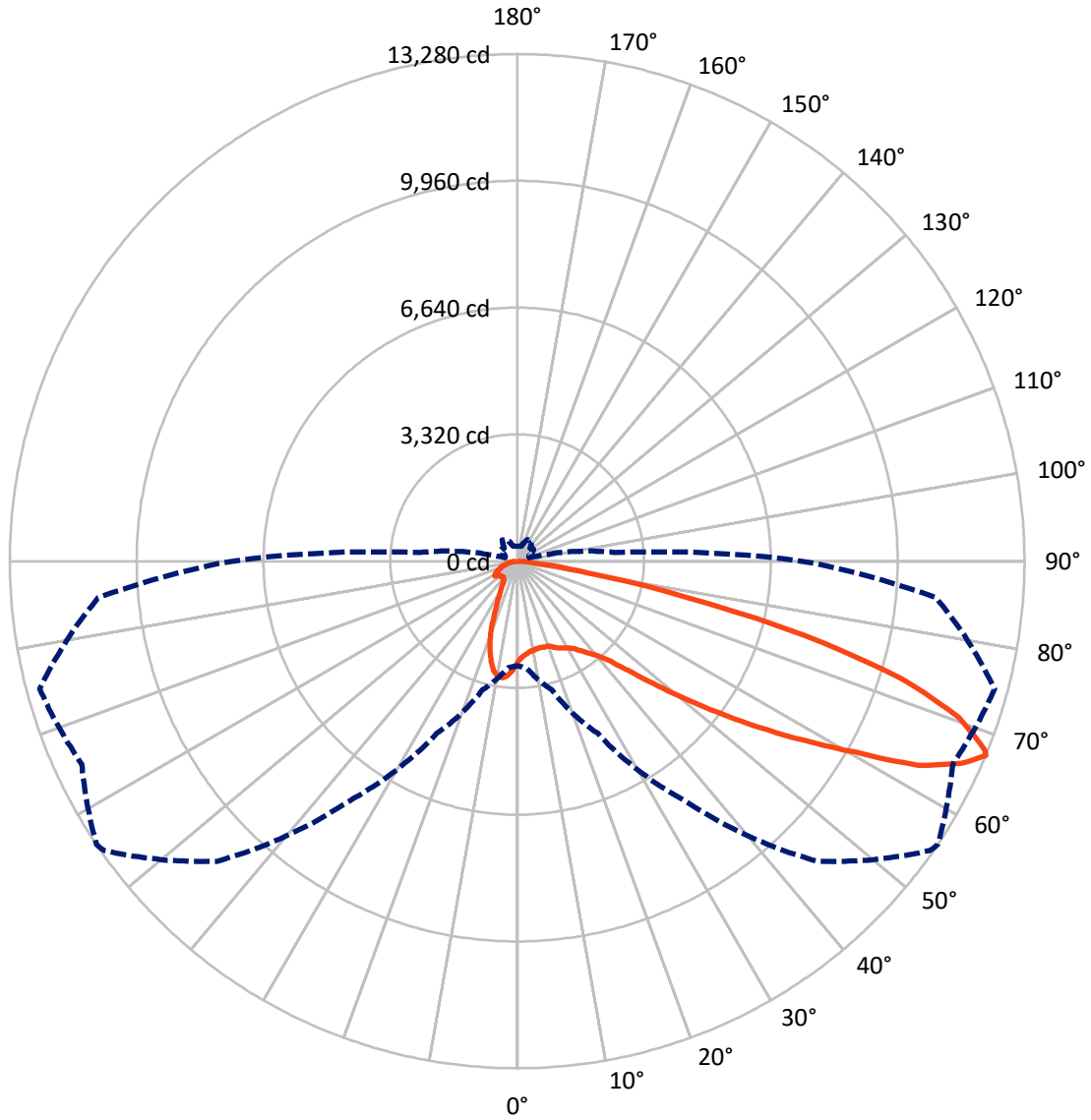
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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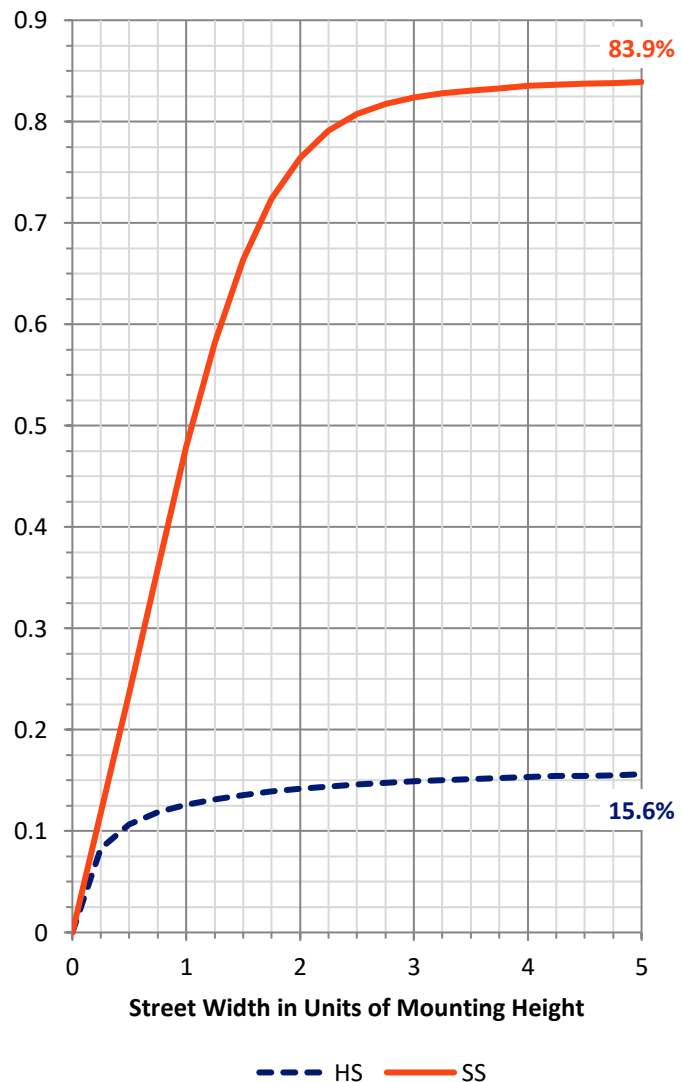
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2669.8	0.0	2669.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	14194.3	0.0	14194.3
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	16864.0	0.0	16864.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.8	1.5
10°-20°	689.6	4.1
20°-30°	1081.6	6.4
30°-40°	1543.9	9.2
40°-50°	2330.3	13.8
50°-60°	3709.4	22.0
60°-70°	4742.1	28.1
70°-80°	2312.1	13.7
80°-90°	202.3	1.2
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°	16864.0	100.0
0°-180°	16864.0	100.0

**Coefficient of Utilization**

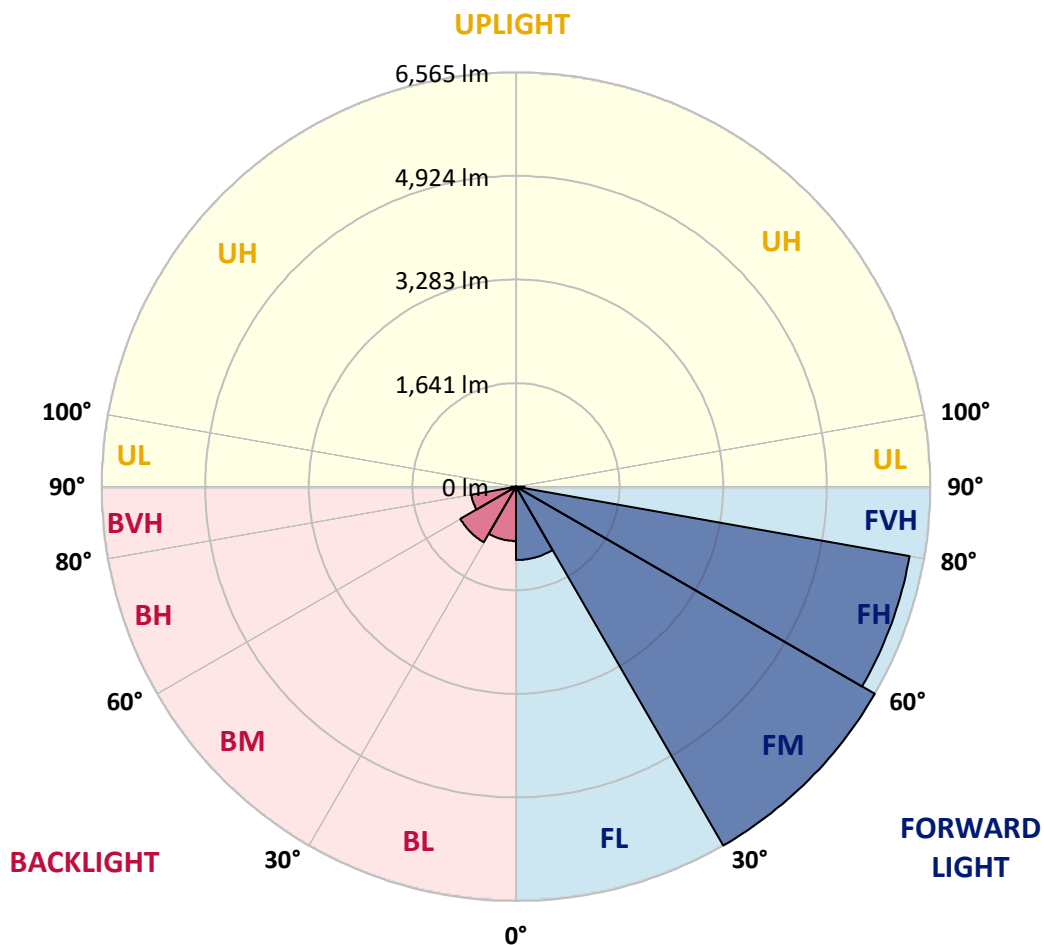


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1162.1	6.9			
FM (30°-60°)	6565.0	38.9			
FH (60°-80°)	6332.8	37.6			G3/7500
FVH (80°-90°)	134.3	0.8			G2/225
BL (0°-30°)	861.9	5.1	B2/1000		
BM (30°-60°)	1018.5	6.0	B2/2500		
BH (60°-80°)	721.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	67.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0
2.5°	2410.4	2400.6	2412.4	2400.6	2453.9	2485.6	2495.5	2509.3	2558.7	2606.2
5°	2309.6	2266.1	2313.5	2329.4	2333.3	2386.7	2442.1	2452.0	2477.7	2554.8
7.5°	2141.5	2190.9	2173.2	2220.6	2270.0	2323.4	2414.4	2388.7	2483.6	2556.8
10°	2105.9	2109.9	2129.6	2147.4	2190.9	2260.2	2386.7	2370.9	2467.8	2624.0
12.5°	2141.5	2141.5	2135.6	2121.7	2171.2	2238.4	2339.3	2347.2	2499.4	2643.8
15°	2266.1	2289.8	2226.5	2236.4	2216.7	2238.4	2327.4	2345.2	2511.3	2659.6
17.5°	2570.6	2562.7	2487.6	2382.8	2295.7	2281.9	2343.2	2363.0	2499.4	2705.1
20°	2867.2	2851.4	2720.9	2612.1	2440.1	2359.0	2368.9	2370.9	2519.2	2734.7
22.5°	3197.4	3239.0	3096.6	2875.1	2661.6	2459.9	2420.3	2452.0	2564.7	2750.5
25°	3715.5	3626.5	3503.9	3213.3	2869.2	2616.1	2505.4	2521.2	2608.2	2790.1
27.5°	4089.2	4053.6	3861.8	3626.5	3159.9	2738.7	2550.8	2580.5	2687.3	2788.1
30°	4449.1	4449.1	4332.5	3980.5	3466.4	2944.3	2647.7	2633.9	2649.7	2784.2
32.5°	4870.3	4813.0	4644.9	4411.6	3852.0	3132.2	2724.8	2728.8	2728.8	2857.3
35°	5091.8	5184.7	5072.0	4692.3	4146.6	3444.6	2910.7	2881.1	2859.3	2938.4
37.5°	5416.1	5471.4	5352.8	5129.3	4512.4	3697.7	3074.8	3051.1	2924.6	3001.7
40°	5611.8	5601.9	5598.0	5495.2	4996.9	3996.3	3316.1	3254.8	3084.7	3225.1
42.5°	5722.6	5702.8	5946.0	5882.7	5453.6	4435.3	3618.6	3585.0	3397.2	3622.6
45°	5847.1	5993.5	6193.2	6371.2	5985.6	5052.2	4130.8	4083.3	3915.2	4202.0
47.5°	5955.9	6135.8	6390.9	6580.8	6466.1	5722.6	4763.5	4775.4	4664.7	4959.3
50°	6137.8	6155.6	6501.7	6885.3	6974.3	6341.5	5613.8	5594.0	5544.6	5957.9
52.5°	6082.5	6135.8	6572.8	7063.2	7209.6	6996.0	6527.4	6586.7	6521.4	7041.5
55°	5180.8	5340.9	6529.3	7251.1	7767.2	7735.5	7701.9	7662.4	7658.4	8259.6
57.5°	4771.4	4901.9	5752.2	7458.7	8364.4	8597.7	8815.2	8858.7	8856.7	9582.4
60°	4502.5	4637.0	5437.8	7346.0	8872.5	9726.8	10144.0	10149.9	10138.1	10996.3
62.5°	3976.5	4107.0	4894.0	6729.1	9012.9	10768.9	11698.2	11775.4	11231.6	12214.3
65°	3343.8	3450.5	4144.6	5785.8	8639.2	11431.3	12866.9	12775.9	12153.0	12910.4
67°	2734.7	2805.9	3482.2	4967.2	7662.4	11112.9	13205.0	13280.2	12578.2	12940.0
67.5°	2560.7	2626.0	3264.7	4688.4	7290.6	10871.7	13216.9	13205.0	12586.1	12946.0
70°	1777.7	1805.4	2224.6	3225.1	5370.6	9185.0	12251.9	12279.6	12058.1	12244.0
72.5°	1178.5	1220.0	1487.0	2032.8	3165.8	6683.6	10240.9	10537.5	10397.1	10039.2
75°	759.3	783.0	972.9	1210.2	1558.2	3806.5	7565.5	7763.2	7440.9	6209.0
77.5°	425.1	450.8	587.3	735.6	759.3	1583.9	4249.4	4494.6	3808.5	2637.8
80°	265.0	298.6	442.9	437.0	361.9	581.4	1752.0	1876.5	1522.6	907.6
82.5°	199.7	225.4	342.1	306.5	203.7	259.0	656.5	704.0	557.6	350.0
85°	136.4	172.0	247.2	189.8	106.8	124.6	261.0	280.8	255.1	170.1
87.5°	49.4	73.2	128.5	94.9	47.5	37.6	85.0	94.9	91.0	77.1
90°	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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2624.0	0°	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0	2624.0
2647.7	2.5°	2685.3	2713.0	2726.8	2807.9	2841.5	2835.6	2843.5	2855.4	2867.2	2883.0
2681.3	5°	2707.0	2792.1	2837.6	2932.5	2995.7	2968.1	3003.7	2993.8	2979.9	2977.9
2742.6	7.5°	2778.2	2887.0	3023.4	3049.1	3076.8	3007.6	2948.3	2867.2	2847.4	2778.2
2794.1	10°	2904.8	2993.8	3159.9	3169.8	3047.2	2869.2	2736.7	2568.6	2566.7	2465.8
2873.1	12.5°	3025.4	3126.3	3260.7	3203.4	2910.7	2667.5	2452.0	2268.1	2190.9	2139.5
2920.6	15°	3100.5	3266.6	3337.8	3090.7	2671.5	2343.2	2064.4	1866.7	1787.6	1750.0
2979.9	17.5°	3169.8	3401.1	3369.5	2892.9	2376.8	2009.0	1676.8	1504.8	1483.0	1455.4
3074.8	20°	3264.7	3450.5	3256.8	2635.9	2042.6	1578.0	1366.4	1283.3	1303.1	1315.0
3084.7	22.5°	3353.7	3476.3	3114.4	2355.1	1613.6	1249.7	1144.9	1162.7	1192.4	1231.9
3108.5	25°	3393.2	3517.8	2922.6	1967.5	1228.0	1052.0	1028.2	1057.9	1107.3	1109.3
3142.1	27.5°	3418.9	3488.1	2691.2	1589.8	970.9	919.5	955.1	976.8	982.8	1006.5
3213.3	30°	3464.4	3426.8	2398.6	1137.0	814.7	816.7	862.1	862.1	862.1	879.9
3284.4	32.5°	3543.5	3385.3	2056.5	830.5	702.0	765.2	753.4	749.4	741.5	719.8
3375.4	35°	3592.9	3272.6	1623.4	615.0	630.8	702.0	698.0	636.7	533.9	482.5
3606.8	37.5°	3695.7	3215.2	1194.3	474.6	589.3	670.3	648.6	500.3	387.6	338.1
3893.5	40°	3917.2	3177.7	826.5	415.3	561.6	654.5	579.4	427.1	296.6	209.6
4336.4	42.5°	4188.1	3179.6	561.6	391.5	563.6	688.1	557.6	365.8	209.6	168.1
4927.7	45°	4552.0	3150.0	385.6	391.5	599.1	743.5	571.5	332.2	203.7	213.6
5669.2	47.5°	4943.5	3175.7	286.7	355.9	605.1	745.5	522.0	326.3	195.8	247.2
6476.0	50°	5400.3	3201.4	237.3	328.2	607.1	721.7	480.5	318.4	203.7	261.0
7401.4	52.5°	5870.9	3282.5	201.7	310.5	630.8	711.9	480.5	330.2	203.7	227.4
8579.9	55°	6572.8	3490.1	290.7	387.6	717.8	777.1	591.2	462.7	284.7	292.7
9709.0	57.5°	7348.0	3703.7	324.3	407.3	737.6	700.0	636.7	510.2	300.6	302.5
10586.9	60°	7858.1	3711.6	322.3	397.5	690.1	605.1	622.9	537.9	306.5	259.0
11130.7	62.5°	8061.8	3470.3	336.2	397.5	642.7	565.5	638.7	579.4	316.4	324.3
11285.0	65°	7830.5	2972.0	324.3	355.9	565.5	506.2	642.7	587.3	346.0	326.3
11008.1	67°	7468.6	2560.7	330.2	338.1	526.0	480.5	676.3	616.9	401.4	391.5
10863.8	67.5°	7365.8	2452.0	328.2	328.2	512.1	472.6	684.2	616.9	409.3	405.4
9588.4	70°	6491.8	1987.3	336.2	324.3	452.8	448.9	727.7	650.6	470.6	474.6
7043.5	72.5°	4941.5	1506.8	334.2	324.3	393.5	429.1	733.6	672.3	512.1	474.6
3944.9	75°	2807.9	901.7	294.6	282.8	310.5	373.7	686.2	640.7	498.3	425.1
1576.0	77.5°	1160.7	464.7	270.9	255.1	257.1	304.5	571.5	597.2	474.6	361.9
526.0	80°	433.0	278.8	217.5	203.7	197.7	223.4	407.3	476.6	405.4	296.6
231.4	82.5°	225.4	174.0	148.3	148.3	134.5	142.4	219.5	316.4	306.5	203.7
92.9	85°	114.7	98.9	85.0	83.1	75.1	67.2	110.7	187.9	176.0	112.7
41.5	87.5°	61.3	55.4	35.6	33.6	27.7	17.8	19.8	37.6	61.3	49.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
2624.0
2898.9
2995.7
2802.0
2461.9
2127.7
1742.1
1469.2
1301.1
1210.2
1129.1
1028.2
899.7
707.9
506.2
336.2
203.7
164.1
217.5
274.9
302.5
233.3
308.5
292.7
266.9
328.2
320.3
385.6
397.5
439.0
421.2
379.7
342.1
270.9
160.2
92.9
35.6
0.0

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