

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: P477926

Luminaire Tested: **IFLD-S-SA3E-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477926  
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-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

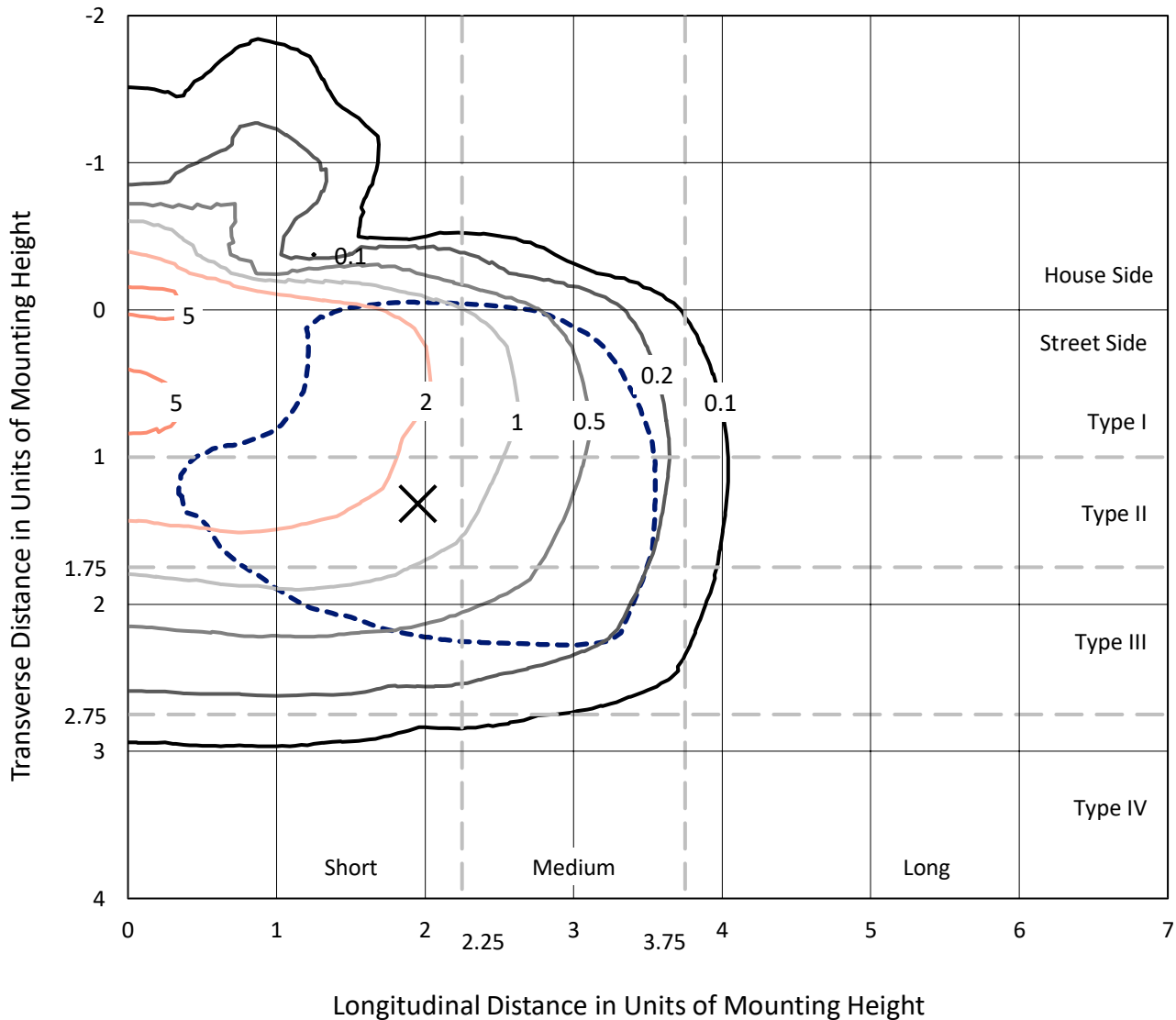
Lumens per Lamp: N/A  
Luminaire Lumens: 21053.6 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1  
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

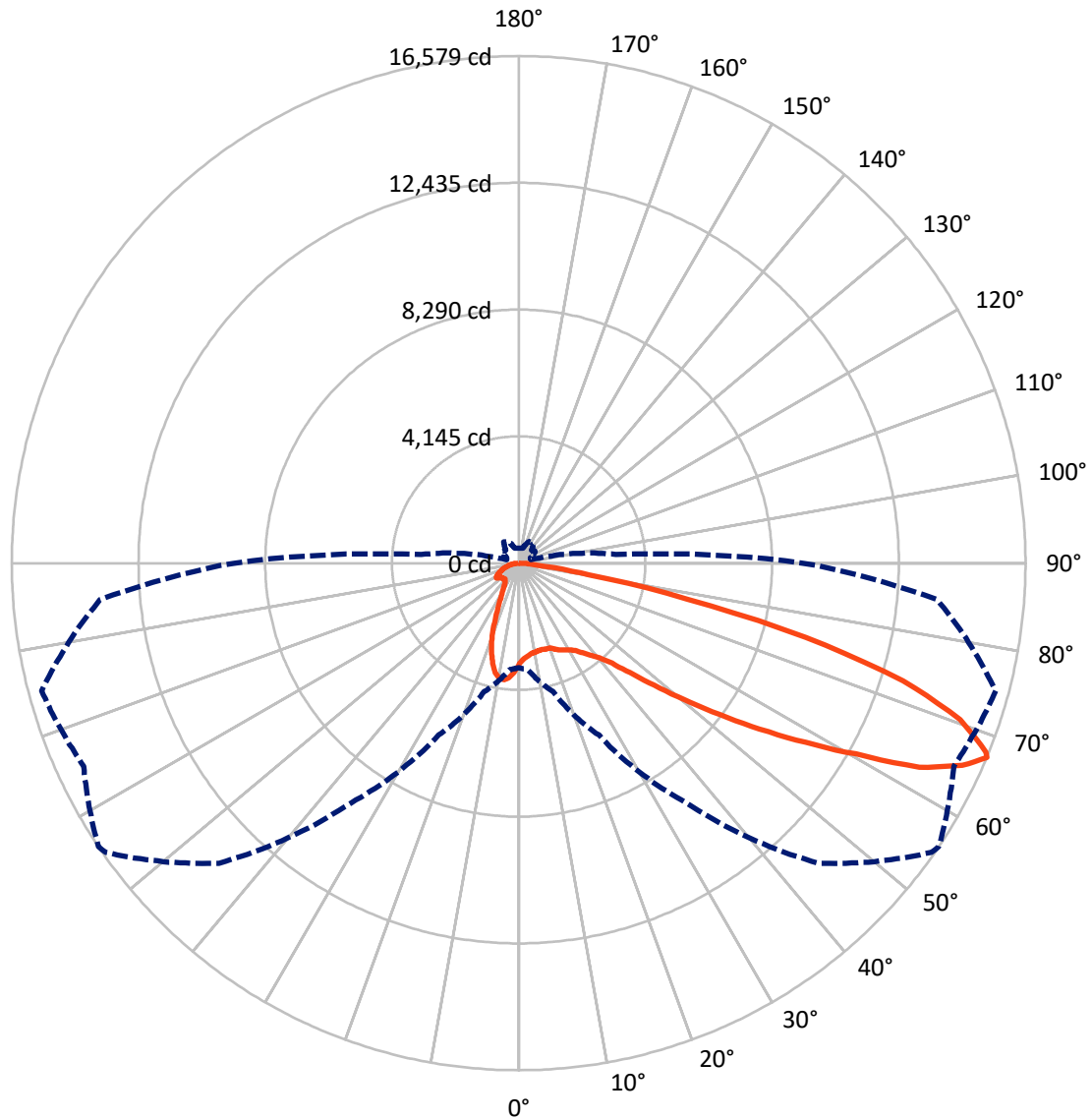
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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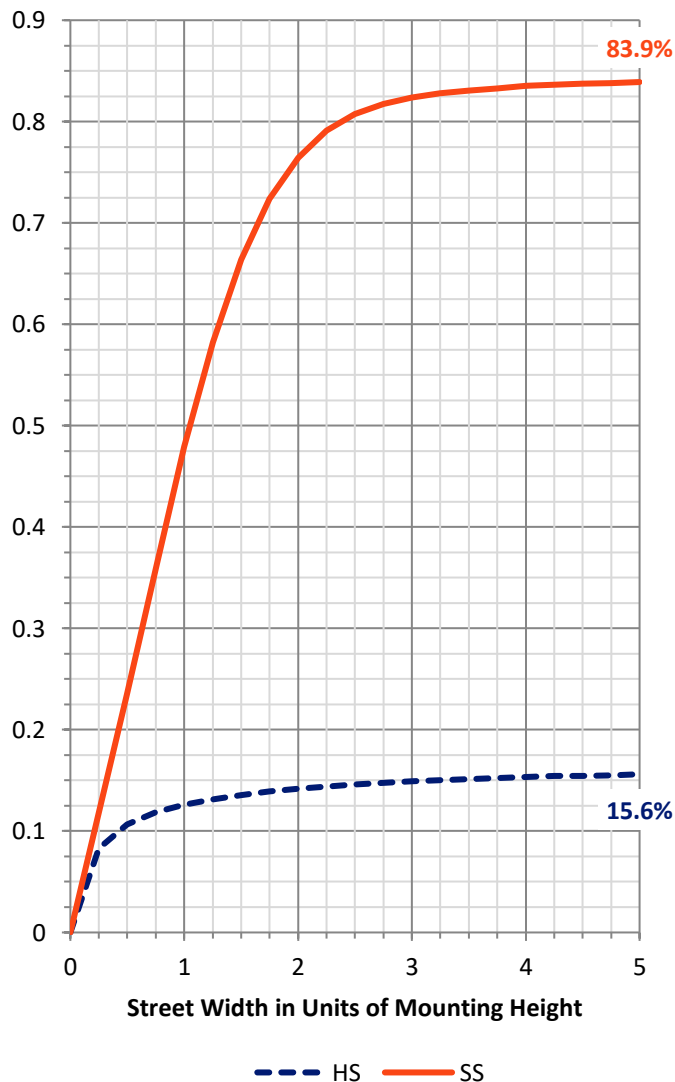
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3333.0	0.0	3333.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	17720.6	0.0	17720.6
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	21053.6	0.0	21053.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.6	1.5
10°-20°	861.0	4.1
20°-30°	1350.3	6.4
30°-40°	1927.5	9.2
40°-50°	2909.2	13.8
50°-60°	4630.9	22.0
60°-70°	5920.2	28.1
70°-80°	2886.5	13.7
80°-90°	252.5	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°	21053.6	100.0
0°-180°	21053.6	100.0

**Coefficient of Utilization**

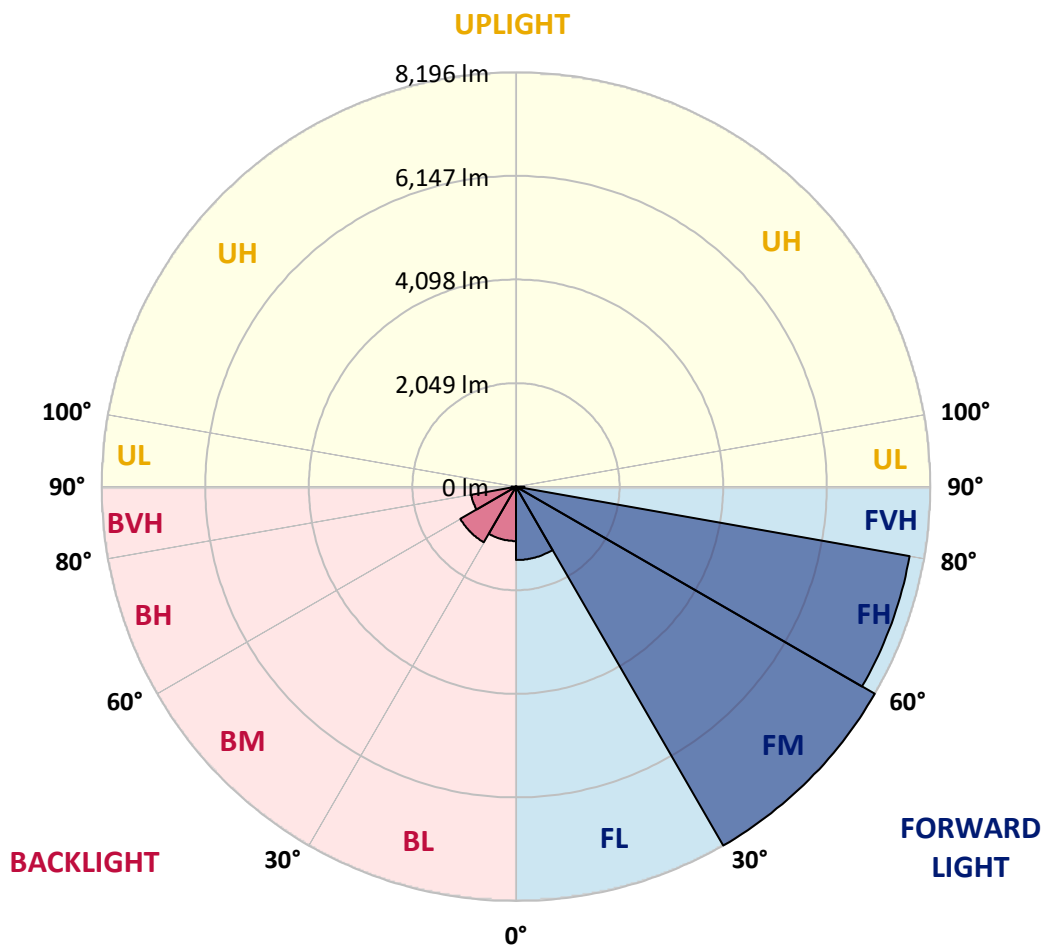


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.8	6.9			
FM (30°-60°)	8196.0	38.9			
FH (60°-80°)	7906.1	37.6			G4/12000
FVH (80°-90°)	167.7	0.8			G2/225
BL (0°-30°)	1076.0	5.1	B3/2500		
BM (30°-60°)	1271.6	6.0	B2/2500		
BH (60°-80°)	900.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	84.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9
2.5°	3009.3	2996.9	3011.7	2996.9	3063.6	3103.1	3115.4	3132.7	3194.4	3253.7
5°	2883.4	2829.1	2888.3	2908.1	2913.0	2979.6	3048.8	3061.1	3093.2	3189.5
7.5°	2673.5	2735.3	2713.0	2772.3	2834.0	2900.6	3014.2	2982.1	3100.6	3191.9
10°	2629.1	2634.0	2658.7	2680.9	2735.3	2821.7	2979.6	2959.9	3080.9	3275.9
12.5°	2673.5	2673.5	2666.1	2648.8	2710.6	2794.5	2920.4	2930.3	3120.4	3300.6
15°	2829.1	2858.7	2779.7	2792.0	2767.3	2794.5	2905.6	2927.8	3135.2	3320.3
17.5°	3209.2	3199.4	3105.5	2974.7	2866.1	2848.8	2925.3	2950.0	3120.4	3377.1
20°	3579.5	3559.8	3396.8	3261.1	3046.3	2945.1	2957.4	2959.9	3145.0	3414.1
22.5°	3991.8	4043.6	3865.9	3589.4	3322.8	3071.0	3021.6	3061.1	3201.8	3433.9
25°	4638.6	4527.5	4374.4	4011.5	3582.0	3266.0	3127.8	3147.5	3256.1	3483.2
27.5°	5105.1	5060.7	4821.3	4527.5	3944.9	3419.1	3184.5	3221.6	3354.9	3480.8
30°	5554.4	5554.4	5408.8	4969.4	4327.5	3675.8	3305.5	3288.2	3308.0	3475.8
32.5°	6080.3	6008.7	5798.8	5507.5	4808.9	3910.3	3401.8	3406.7	3406.7	3567.2
35°	6356.7	6472.8	6332.1	5858.1	5176.7	4300.4	3633.8	3596.8	3569.7	3668.4
37.5°	6761.6	6830.7	6682.6	6403.6	5633.4	4616.4	3838.7	3809.1	3651.1	3747.4
40°	7006.0	6993.7	6988.7	6860.3	6238.2	4989.1	4139.9	4063.4	3851.1	4026.3
42.5°	7144.2	7119.6	7423.2	7344.2	6808.5	5537.2	4517.6	4475.6	4241.1	4522.5
45°	7299.8	7482.4	7731.8	7954.0	7472.6	6307.4	5157.0	5097.7	4887.9	5245.9
47.5°	7435.5	7660.2	7978.6	8215.6	8072.4	7144.2	5946.9	5961.8	5823.5	6191.3
50°	7662.7	7684.9	8116.9	8595.8	8706.9	7916.9	7008.5	6983.8	6922.1	7438.0
52.5°	7593.5	7660.2	8205.8	8818.0	9000.7	8734.0	8149.0	8223.0	8141.6	8790.8
55°	6467.8	6667.8	8151.4	9052.5	9696.8	9657.3	9615.3	9566.0	9561.0	10311.5
57.5°	5956.8	6119.8	7181.3	9311.7	10442.3	10733.6	11005.2	11059.5	11057.0	11963.0
60°	5621.1	5789.0	6788.8	9171.0	11076.8	12143.2	12664.1	12671.5	12656.7	13728.1
62.5°	4964.4	5127.4	6109.9	8400.8	11252.1	13444.2	14604.5	14700.7	14021.9	15248.8
65°	4174.5	4307.8	5174.3	7223.2	10785.5	14271.2	16063.4	15949.9	15172.2	16117.7
67°	3414.1	3503.0	4347.3	6201.2	9566.0	13873.7	16485.6	16579.4	15703.0	16154.8
67.5°	3196.9	3278.4	4075.7	5853.1	9101.9	13572.6	16500.4	16485.6	15712.9	16162.2
70°	2219.3	2253.9	2777.2	4026.3	6704.8	11466.8	15295.7	15330.2	15053.8	15285.8
72.5°	1471.3	1523.1	1856.4	2537.8	3952.3	8344.0	12785.1	13155.4	12980.1	12533.3
75°	948.0	977.6	1214.6	1510.8	1945.3	4752.1	9445.0	9691.9	9289.5	7751.5
77.5°	530.8	562.8	733.2	918.3	948.0	1977.4	5305.1	5611.2	4754.6	3293.2
80°	330.8	372.8	553.0	545.6	451.8	725.8	2187.2	2342.7	1900.9	1133.1
82.5°	249.3	281.4	427.1	382.6	254.3	323.4	819.6	878.8	696.2	436.9
85°	170.3	214.8	308.6	237.0	133.3	155.5	325.9	350.5	318.5	212.3
87.5°	61.7	91.3	160.5	118.5	59.2	46.9	106.2	118.5	113.6	96.3
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°
3275.9	0°	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9	3275.9
3305.5	2.5°	3352.4	3387.0	3404.3	3505.5	3547.4	3540.0	3549.9	3564.7	3579.5	3599.3
3347.5	5°	3379.6	3485.7	3542.5	3661.0	3740.0	3705.4	3749.9	3737.5	3720.2	3717.8
3424.0	7.5°	3468.4	3604.2	3774.5	3806.6	3841.2	3754.8	3680.7	3579.5	3554.8	3468.4
3488.2	10°	3626.4	3737.5	3944.9	3957.2	3804.2	3582.0	3416.6	3206.8	3204.3	3078.4
3586.9	12.5°	3777.0	3902.9	4070.8	3999.2	3633.8	3330.2	3061.1	2831.5	2735.3	2671.1
3646.2	15°	3870.8	4078.2	4167.1	3858.5	3335.1	2925.3	2577.3	2330.4	2231.6	2184.7
3720.2	17.5°	3957.2	4246.1	4206.6	3611.6	2967.3	2508.1	2093.4	1878.6	1851.5	1816.9
3838.7	20°	4075.7	4307.8	4065.8	3290.7	2550.1	1970.0	1705.8	1602.1	1626.8	1641.6
3851.1	22.5°	4186.8	4339.9	3888.1	2940.1	2014.4	1560.2	1429.3	1451.6	1488.6	1538.0
3880.7	25°	4236.2	4391.7	3648.6	2456.3	1533.0	1313.3	1283.7	1320.7	1382.4	1384.9
3922.7	27.5°	4268.3	4354.7	3359.8	1984.8	1212.1	1147.9	1192.4	1219.5	1226.9	1256.5
4011.5	30°	4325.1	4278.1	2994.5	1419.5	1017.1	1019.5	1076.3	1076.3	1076.3	1098.5
4100.4	32.5°	4423.8	4226.3	2567.4	1036.8	876.4	955.4	940.6	935.6	925.7	898.6
4214.0	35°	4485.5	4085.6	2026.8	767.7	787.5	876.4	871.4	794.9	666.5	602.3
4502.8	37.5°	4613.9	4014.0	1491.1	592.5	735.7	836.9	809.7	624.6	483.9	422.1
4860.7	40°	4890.4	3967.1	1031.9	518.4	701.1	817.1	723.3	533.2	370.3	261.7
5413.7	42.5°	5228.6	3969.6	701.1	488.8	703.6	859.1	696.2	456.7	261.7	209.8
6151.8	45°	5682.8	3932.5	481.4	488.8	748.0	928.2	713.4	414.7	254.3	266.6
7077.6	47.5°	6171.6	3964.6	358.0	444.4	755.4	930.7	651.7	407.3	244.4	308.6
8084.8	50°	6741.9	3996.7	296.2	409.8	757.9	901.1	599.9	397.5	254.3	325.9
9240.1	52.5°	7329.4	4097.9	251.8	387.6	787.5	888.7	599.9	412.3	254.3	283.9
10711.4	55°	8205.8	4357.1	362.9	483.9	896.1	970.2	738.1	577.7	355.5	365.4
12121.0	57.5°	9173.5	4623.8	404.9	508.5	920.8	873.9	794.9	636.9	375.2	377.7
13217.1	60°	9810.4	4633.6	402.4	496.2	861.6	755.4	777.6	671.5	382.6	323.4
13896.0	62.5°	10064.6	4332.5	419.7	496.2	802.3	706.0	797.4	723.3	395.0	404.9
14088.5	65°	9775.8	3710.4	404.9	444.4	706.0	632.0	802.3	733.2	432.0	407.3
13742.9	67°	9324.0	3196.9	412.3	422.1	656.7	599.9	844.3	770.2	501.1	488.8
13562.7	67.5°	9195.7	3061.1	409.8	409.8	639.4	590.0	854.1	770.2	511.0	506.1
11970.4	70°	8104.5	2481.0	419.7	404.9	565.3	560.4	908.5	812.2	587.5	592.5
8793.3	72.5°	6169.1	1881.1	417.2	404.9	491.3	535.7	915.9	839.3	639.4	592.5
4924.9	75°	3505.5	1125.7	367.8	353.0	387.6	466.6	856.6	799.8	622.1	530.8
1967.5	77.5°	1449.1	580.1	338.2	318.5	320.9	380.2	713.4	745.5	592.5	451.8
656.7	80°	540.6	348.1	271.6	254.3	246.9	279.0	508.5	594.9	506.1	370.3
288.8	82.5°	281.4	217.2	185.1	185.1	167.9	177.7	274.0	395.0	382.6	254.3
116.0	85°	143.2	123.4	106.2	103.7	93.8	83.9	138.2	234.5	219.7	140.7
51.8	87.5°	76.5	69.1	44.4	42.0	34.6	22.2	24.7	46.9	76.5	61.7
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>
3275.9
3619.0
3740.0
3498.1
3073.5
2656.3
2174.9
1834.2
1624.4
1510.8
1409.6
1283.7
1123.2
883.8
632.0
419.7
254.3
204.9
271.6
343.1
377.7
291.3
385.1
365.4
333.3
409.8
399.9
481.4
496.2
548.0
525.8
474.0
427.1
338.2
200.0
116.0
44.4
0.0

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