

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: P477708

Luminaire Tested: **IFLD-M-SA4A-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477708
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

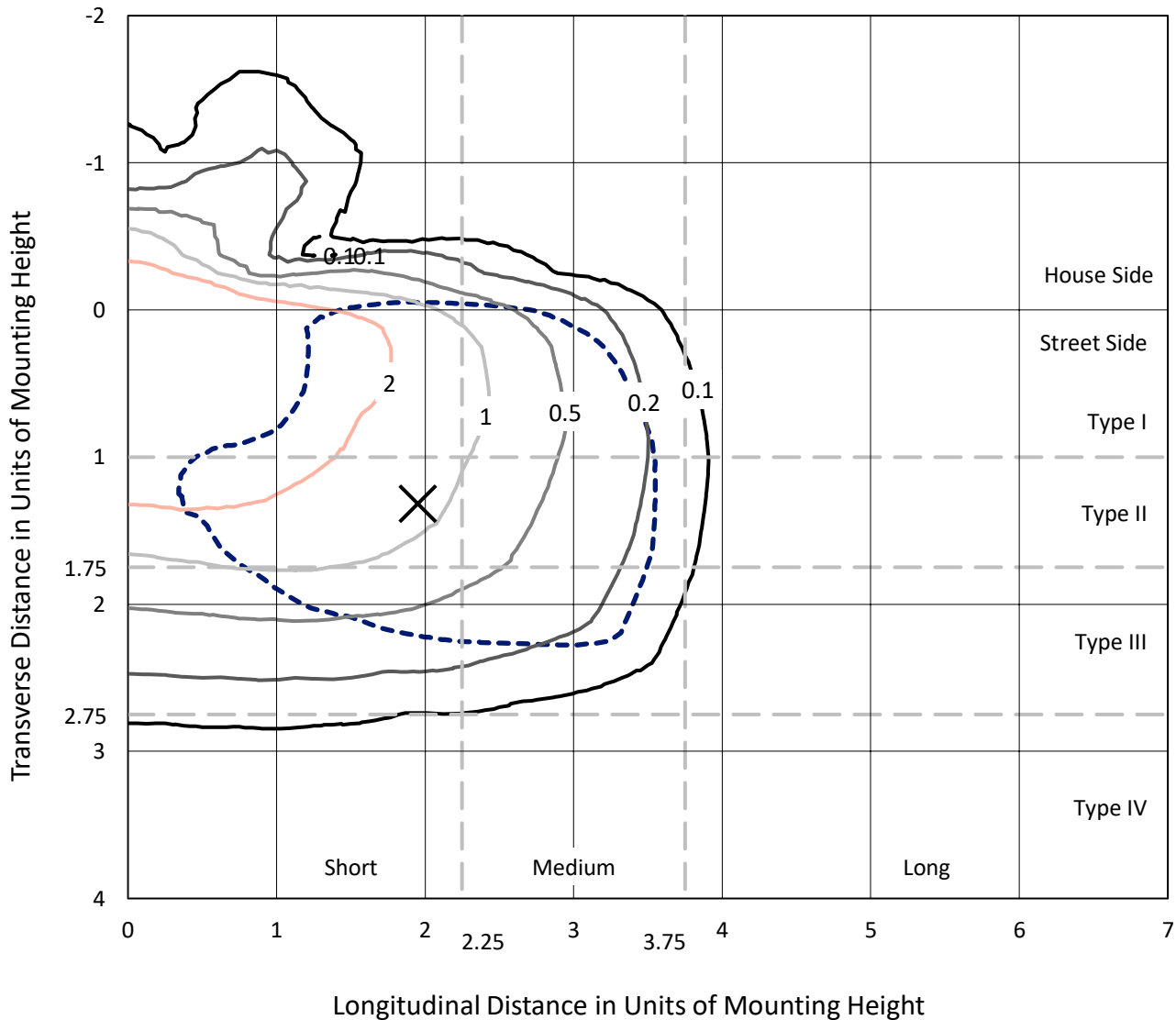
Lumens per Lamp: N/A
Luminaire Lumens: 16518.7 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): 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

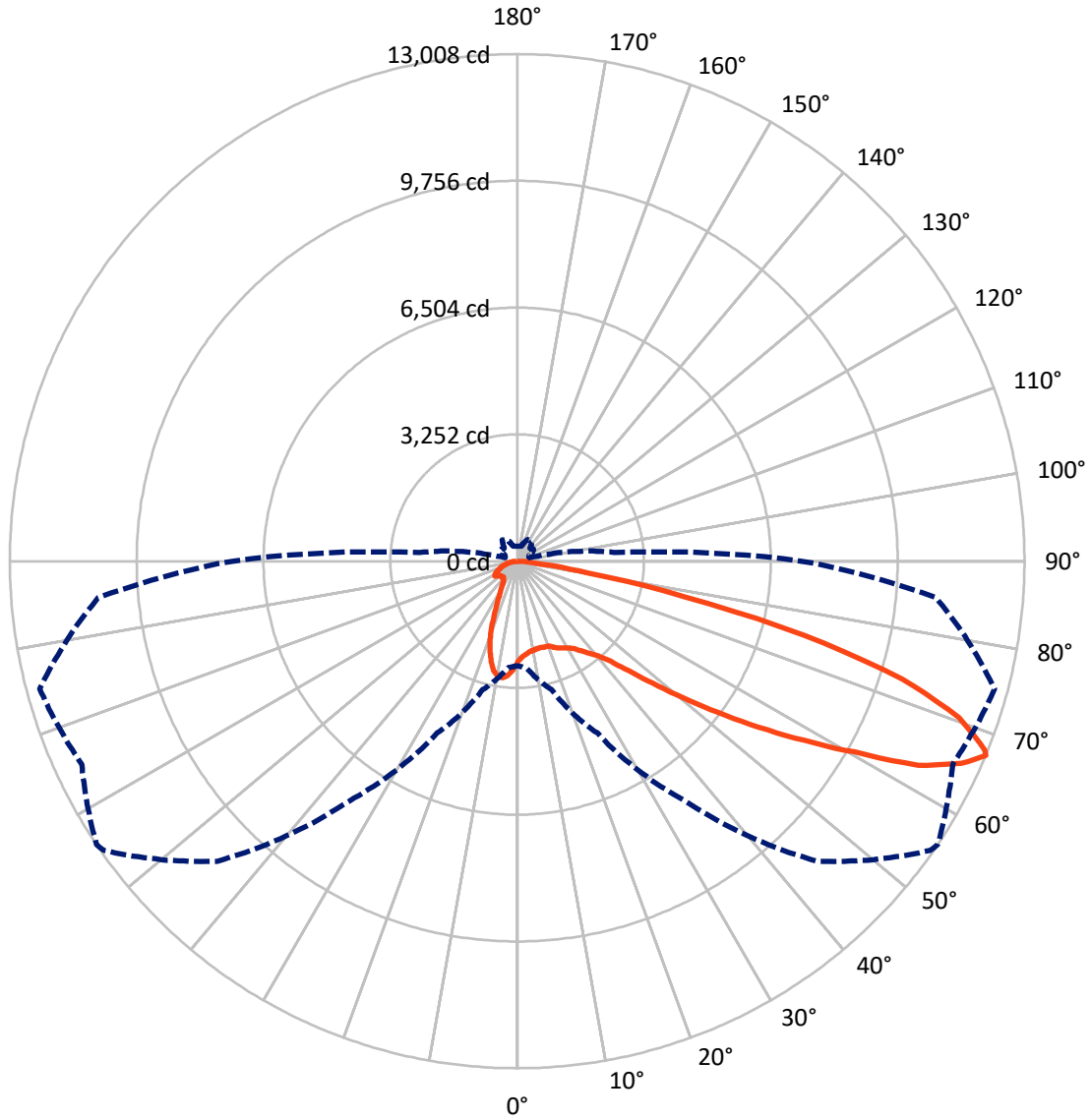
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type 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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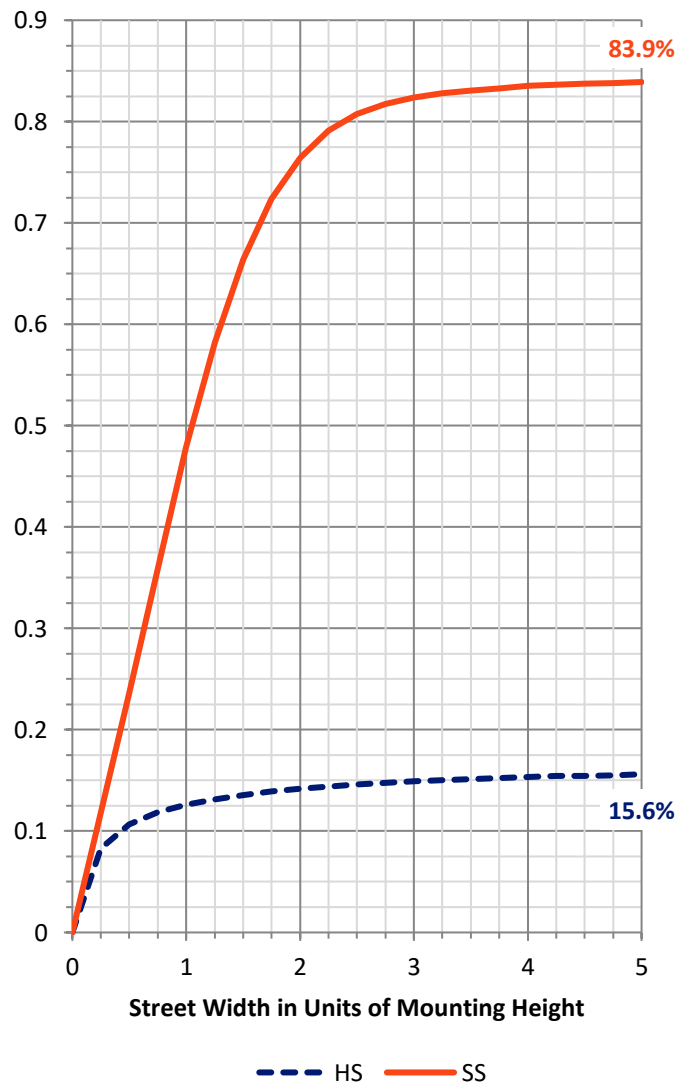
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2615.1	0.0	2615.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	13903.6	0.0	13903.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	16518.7	0.0	16518.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	1.5
10°-20°	675.5	4.1
20°-30°	1059.4	6.4
30°-40°	1512.3	9.2
40°-50°	2282.5	13.8
50°-60°	3633.4	22.0
60°-70°	4645.0	28.1
70°-80°	2264.8	13.7
80°-90°	198.1	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°	16518.7	100.0
0°-180°	16518.7	100.0

Coefficient of Utilization

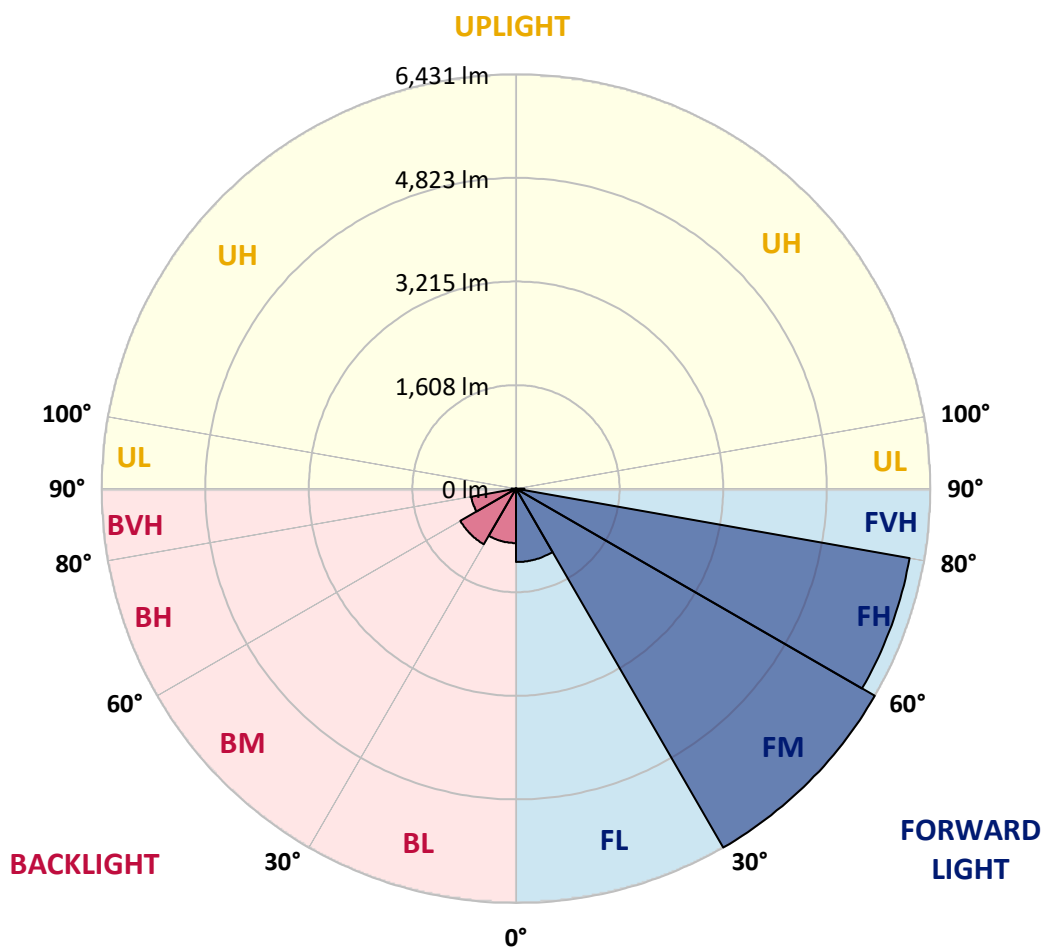


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.3	6.9			
FM (30°-60°)	6430.6	38.9			
FH (60°-80°)	6203.1	37.6			G3/7500
FVH (80°-90°)	131.6	0.8			G2/225
BL (0°-30°)	844.2	5.1	B2/1000		
BM (30°-60°)	997.7	6.0	B1/1000		
BH (60°-80°)	706.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	66.5	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°	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3
2.5°	2361.1	2351.4	2363.0	2351.4	2403.7	2434.7	2444.4	2457.9	2506.3	2552.8
5°	2262.3	2219.7	2266.2	2281.7	2285.5	2337.8	2392.1	2401.8	2426.9	2502.5
7.5°	2097.7	2146.1	2128.7	2175.1	2223.6	2275.9	2365.0	2339.8	2432.7	2504.4
10°	2062.8	2066.7	2086.0	2103.5	2146.1	2213.9	2337.8	2322.3	2417.2	2570.3
12.5°	2097.7	2097.7	2091.8	2078.3	2126.7	2192.6	2291.3	2299.1	2448.2	2589.6
15°	2219.7	2242.9	2180.9	2190.6	2171.3	2192.6	2279.7	2297.2	2459.9	2605.1
17.5°	2518.0	2510.2	2436.6	2334.0	2248.7	2235.2	2295.2	2314.6	2448.2	2649.7
20°	2808.5	2793.0	2665.2	2558.6	2390.1	2310.7	2320.4	2322.3	2467.6	2678.7
22.5°	3132.0	3172.6	3033.2	2816.2	2607.1	2409.5	2370.8	2401.8	2512.2	2694.2
25°	3639.4	3552.3	3432.2	3147.5	2810.4	2562.5	2454.0	2469.5	2554.8	2733.0
27.5°	4005.5	3970.6	3782.8	3552.3	3095.2	2682.6	2498.6	2527.7	2632.2	2731.0
30°	4358.0	4358.0	4243.7	3899.0	3395.4	2884.0	2593.5	2579.9	2595.4	2727.2
32.5°	4770.6	4714.4	4549.8	4321.2	3773.1	3068.0	2669.0	2672.9	2672.9	2798.8
35°	4987.5	5078.5	4968.1	4596.3	4061.7	3374.1	2851.1	2822.1	2800.8	2878.2
37.5°	5305.2	5359.4	5243.2	5024.3	4420.0	3622.0	3011.9	2988.6	2864.7	2940.2
40°	5496.9	5487.2	5483.4	5382.6	4894.5	3914.5	3248.2	3188.1	3021.6	3159.1
42.5°	5605.4	5586.0	5824.3	5762.3	5342.0	4344.5	3544.5	3511.6	3327.6	3548.4
45°	5727.4	5870.7	6066.4	6240.7	5863.0	4948.8	4046.2	3999.7	3835.1	4115.9
47.5°	5833.9	6010.2	6260.1	6446.0	6333.7	5605.4	4666.0	4677.6	4569.1	4857.7
50°	6012.1	6029.6	6368.5	6744.3	6831.4	6211.6	5498.9	5479.5	5431.1	5835.9
52.5°	5957.9	6010.2	6438.2	6918.6	7061.9	6852.7	6393.7	6451.8	6387.9	6897.3
55°	5074.7	5231.6	6395.6	7102.6	7608.1	7577.1	7544.2	7505.5	7501.6	8090.4
57.5°	4673.7	4801.6	5634.4	7306.0	8193.1	8421.6	8634.7	8677.3	8675.4	9386.2
60°	4410.3	4542.0	5326.5	7195.6	8690.9	9527.6	9936.3	9942.1	9930.5	10771.1
62.5°	3895.1	4022.9	4793.8	6591.3	8828.4	10548.3	11458.7	11534.2	11001.6	11964.2
65°	3275.3	3379.9	4059.7	5667.4	8462.3	11197.2	12603.4	12514.3	11904.2	12646.0
67°	2678.7	2748.5	3410.9	4865.5	7505.5	10885.4	12934.6	13008.2	12320.6	12675.1
67.5°	2508.3	2572.2	3197.8	4592.4	7141.3	10649.1	12946.2	12934.6	12328.4	12680.9
70°	1741.3	1768.4	2179.0	3159.1	5260.6	8996.9	12001.0	12028.1	11811.2	11993.3
72.5°	1154.4	1195.1	1456.5	1991.1	3101.0	6546.7	10031.2	10321.7	10184.2	9833.6
75°	743.8	767.0	953.0	1185.4	1526.3	3728.5	7410.6	7604.3	7288.5	6081.9
77.5°	416.4	441.6	575.3	720.5	743.8	1551.5	4162.4	4402.6	3730.5	2583.8
80°	259.5	292.5	433.9	428.1	354.5	569.4	1716.1	1838.1	1491.4	889.0
82.5°	195.6	220.8	335.1	300.2	199.5	253.7	643.0	689.5	546.2	342.8
85°	133.6	168.5	242.1	185.9	104.6	122.0	255.7	275.0	249.9	166.6
87.5°	48.4	71.7	125.9	93.0	46.5	36.8	83.3	93.0	89.1	75.5
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°
2570.3	0°	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3
2593.5	2.5°	2630.3	2657.4	2671.0	2750.4	2783.3	2777.5	2785.3	2796.9	2808.5	2824.0
2626.4	5°	2651.6	2734.9	2779.4	2872.4	2934.4	2907.3	2942.1	2932.5	2918.9	2917.0
2686.5	7.5°	2721.3	2827.9	2961.5	2986.7	3013.8	2946.0	2887.9	2808.5	2789.1	2721.3
2736.8	10°	2845.3	2932.5	3095.2	3104.8	2984.8	2810.4	2680.7	2516.0	2514.1	2415.3
2814.3	12.5°	2963.5	3062.2	3193.9	3137.8	2851.1	2612.9	2401.8	2221.6	2146.1	2095.7
2860.8	15°	3037.1	3199.8	3269.5	3027.4	2616.7	2295.2	2022.1	1828.4	1751.0	1714.2
2918.9	17.5°	3104.8	3331.5	3300.5	2833.7	2328.2	1967.9	1642.5	1474.0	1452.7	1425.6
3011.9	20°	3197.8	3379.9	3190.1	2581.9	2000.8	1545.6	1338.4	1257.0	1276.4	1288.0
3021.6	22.5°	3285.0	3405.1	3050.6	2306.8	1580.5	1224.1	1121.5	1138.9	1167.9	1206.7
3044.8	25°	3323.7	3445.7	2862.7	1927.2	1202.8	1030.4	1007.2	1036.2	1084.7	1086.6
3077.7	27.5°	3348.9	3416.7	2636.1	1557.3	951.0	900.7	935.5	956.8	962.6	985.9
3147.5	30°	3393.4	3356.6	2349.5	1113.7	798.0	799.9	844.5	844.5	844.5	861.9
3217.2	32.5°	3470.9	3316.0	2014.4	813.5	687.6	749.6	738.0	734.1	726.3	705.0
3306.3	35°	3519.3	3205.6	1590.2	602.4	617.9	687.6	683.7	623.7	523.0	472.6
3532.9	37.5°	3620.1	3149.4	1169.9	464.9	577.2	656.6	635.3	490.0	379.6	331.2
3813.8	40°	3837.0	3112.6	809.6	406.7	550.1	641.1	567.5	418.4	290.5	205.3
4247.6	42.5°	4102.3	3114.5	550.1	383.5	552.0	674.0	546.2	358.3	205.3	164.6
4826.7	45°	4458.7	3085.5	377.7	383.5	586.9	728.3	559.8	325.4	199.5	209.2
5553.1	47.5°	4842.2	3110.7	280.9	348.6	592.7	730.2	511.3	319.6	191.8	242.1
6343.3	50°	5289.7	3135.8	232.4	321.5	594.6	707.0	470.7	311.8	199.5	255.7
7249.8	52.5°	5750.6	3215.2	197.6	304.1	617.9	697.3	470.7	323.5	199.5	222.7
8404.2	55°	6438.2	3418.6	284.7	379.6	703.1	761.2	579.1	453.2	278.9	286.7
9510.2	57.5°	7197.5	3627.8	317.7	399.0	722.5	685.7	623.7	499.7	294.4	296.3
10370.1	60°	7697.2	3635.6	315.7	389.3	676.0	592.7	610.1	526.8	300.2	253.7
10902.8	62.5°	7896.7	3399.3	329.3	389.3	629.5	554.0	625.6	567.5	309.9	317.7
11053.9	65°	7670.1	2911.2	317.7	348.6	554.0	495.8	629.5	575.3	339.0	319.6
10782.7	67°	7315.7	2508.3	323.5	331.2	515.2	470.7	662.4	604.3	393.2	383.5
10641.3	67.5°	7214.9	2401.8	321.5	321.5	501.7	462.9	670.2	604.3	400.9	397.1
9392.0	70°	6358.8	1946.6	329.3	317.7	443.5	439.7	712.8	637.2	461.0	464.9
6899.2	72.5°	4840.3	1475.9	327.3	317.7	385.4	420.3	718.6	658.5	501.7	464.9
3864.1	75°	2750.4	883.2	288.6	277.0	304.1	366.1	672.1	627.6	488.1	416.4
1543.7	77.5°	1137.0	455.2	265.4	249.9	251.8	298.3	559.8	584.9	464.9	354.5
515.2	80°	424.2	273.1	213.1	199.5	193.7	218.9	399.0	466.8	397.1	290.5
226.6	82.5°	220.8	170.4	145.3	145.3	131.7	139.5	215.0	309.9	300.2	199.5
91.0	85°	112.3	96.8	83.3	81.3	73.6	65.9	108.5	184.0	172.4	110.4
40.7	87.5°	60.0	54.2	34.9	32.9	27.1	17.4	19.4	36.8	60.0	48.4
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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180°
2570.3
2839.5
2934.4
2744.6
2411.4
2084.1
1706.4
1439.1
1274.5
1185.4
1106.0
1007.2
881.3
693.4
495.8
329.3
199.5
160.8
213.1
269.2
296.3
228.6
302.2
286.7
261.5
321.5
313.8
377.7
389.3
430.0
412.6
371.9
335.1
265.4
156.9
91.0
34.9
0.0

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