

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: P477378

Luminaire Tested: **IFLD-S-SA3C-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477378
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

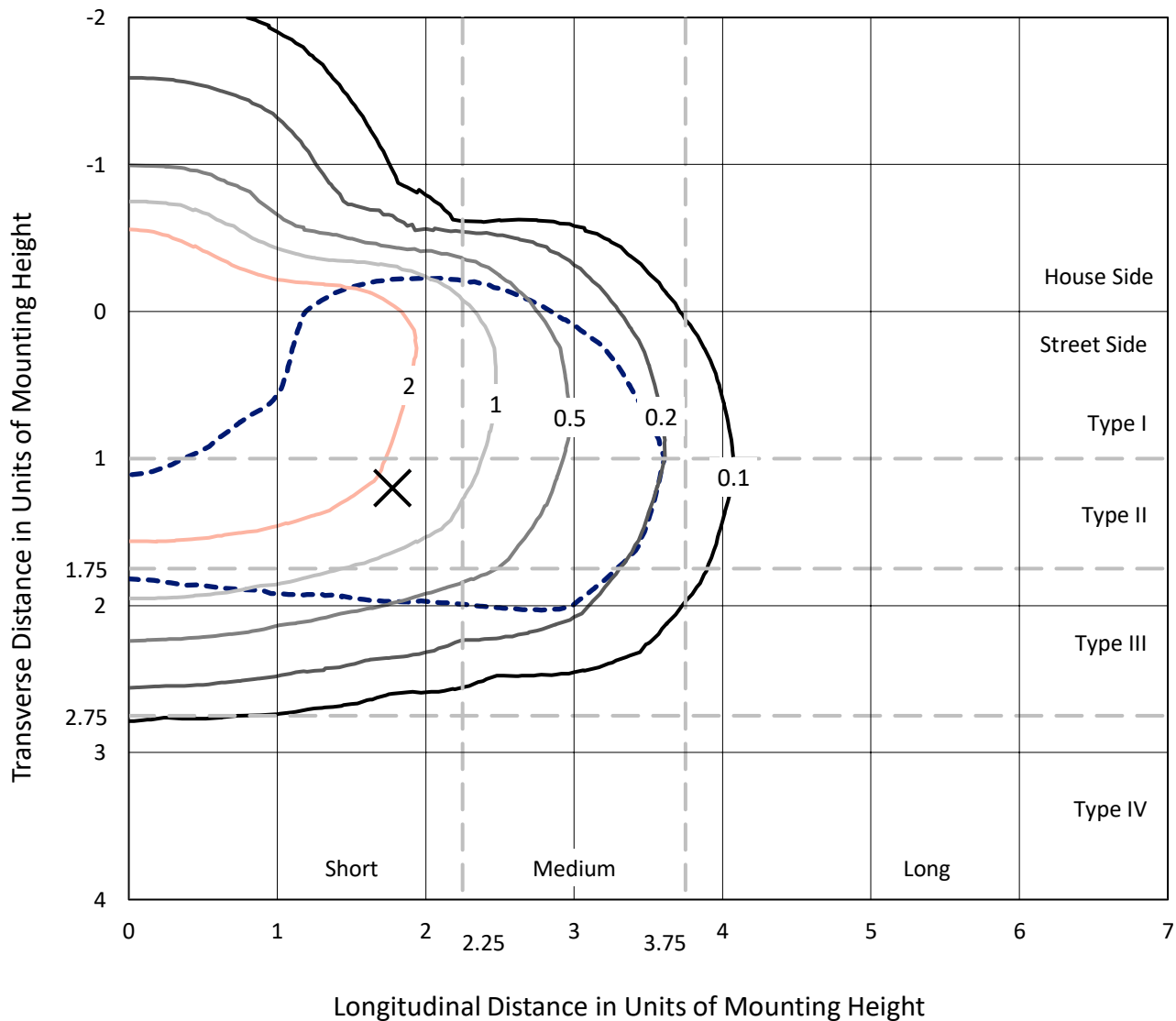
Lumens per Lamp: N/A
Luminaire Lumens: 21574.3 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8
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

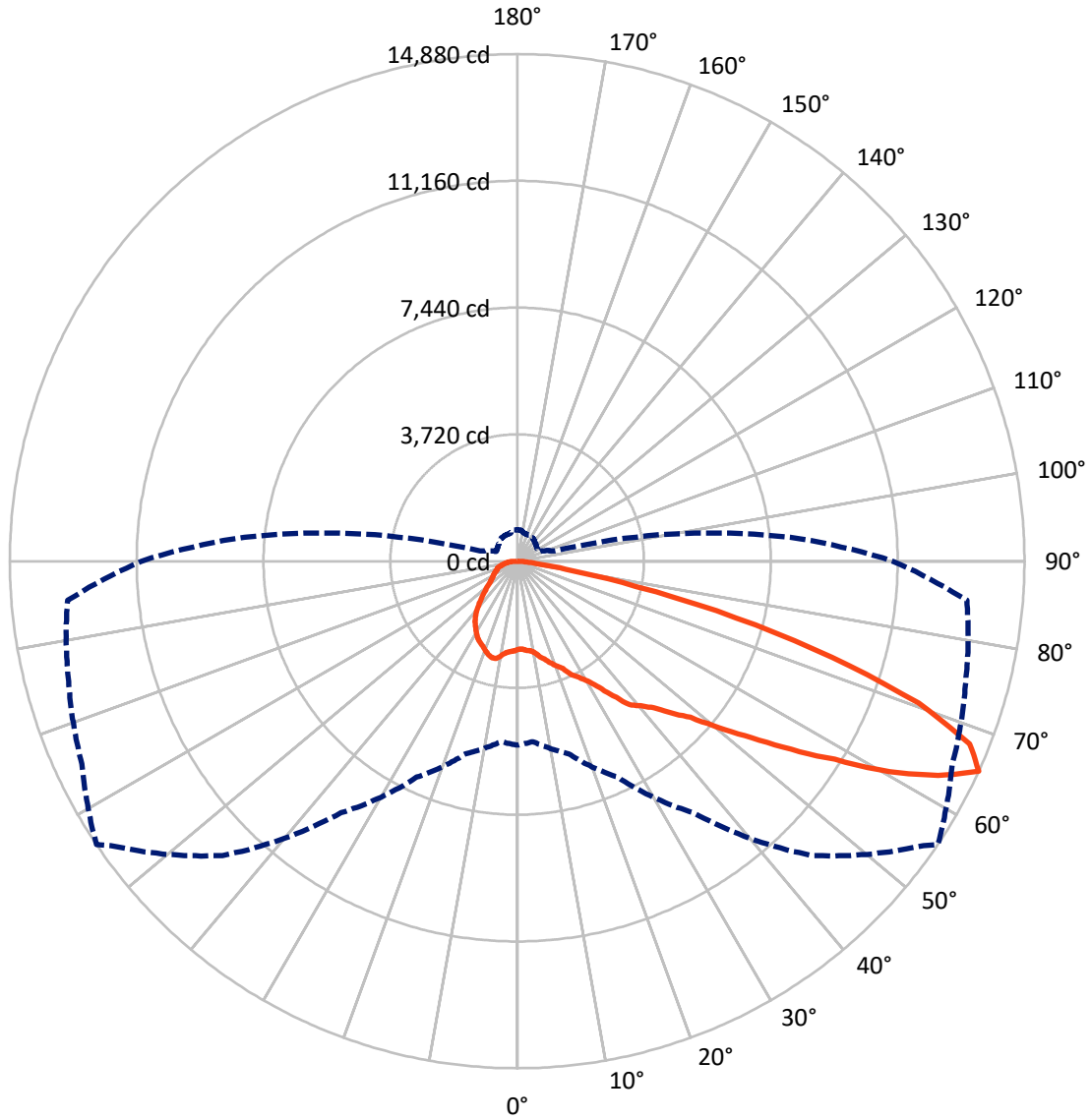
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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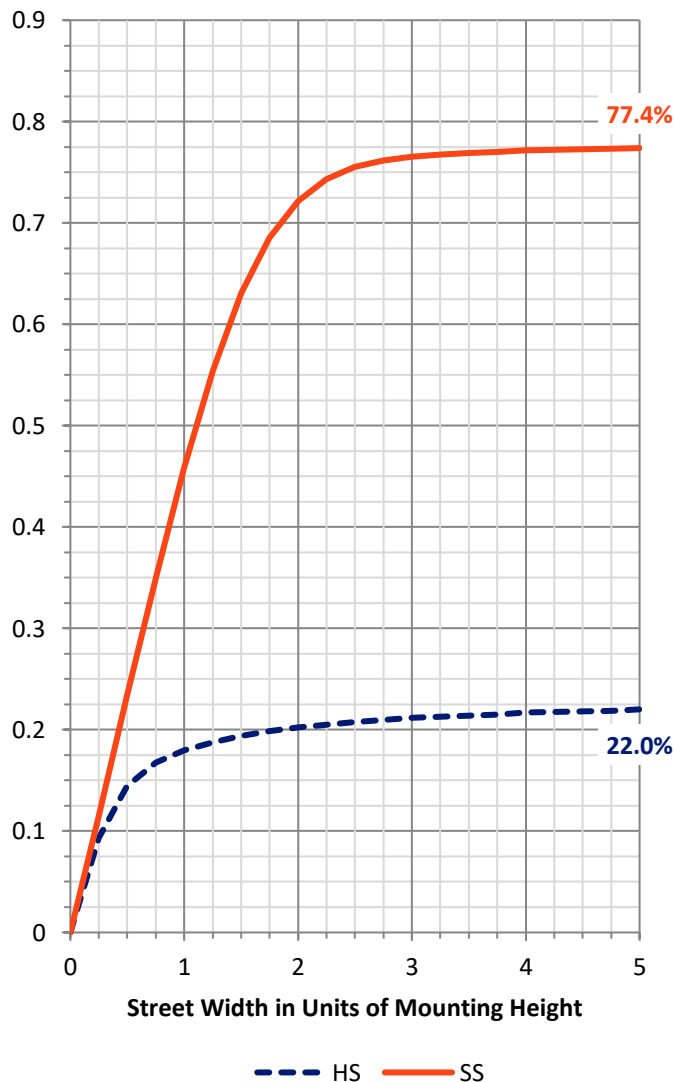
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4838.4	0.0	4838.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	16735.9	0.0	16735.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	21574.3	0.0	21574.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	1.2
10°-20°	833.3	3.9
20°-30°	1483.7	6.9
30°-40°	2221.7	10.3
40°-50°	3291.8	15.3
50°-60°	5072.2	23.5
60°-70°	5742.3	26.6
70°-80°	2383.1	11.0
80°-90°	289.5	1.3
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°	21574.3	100.0
0°-180°	21574.3	100.0

Coefficient of Utilization

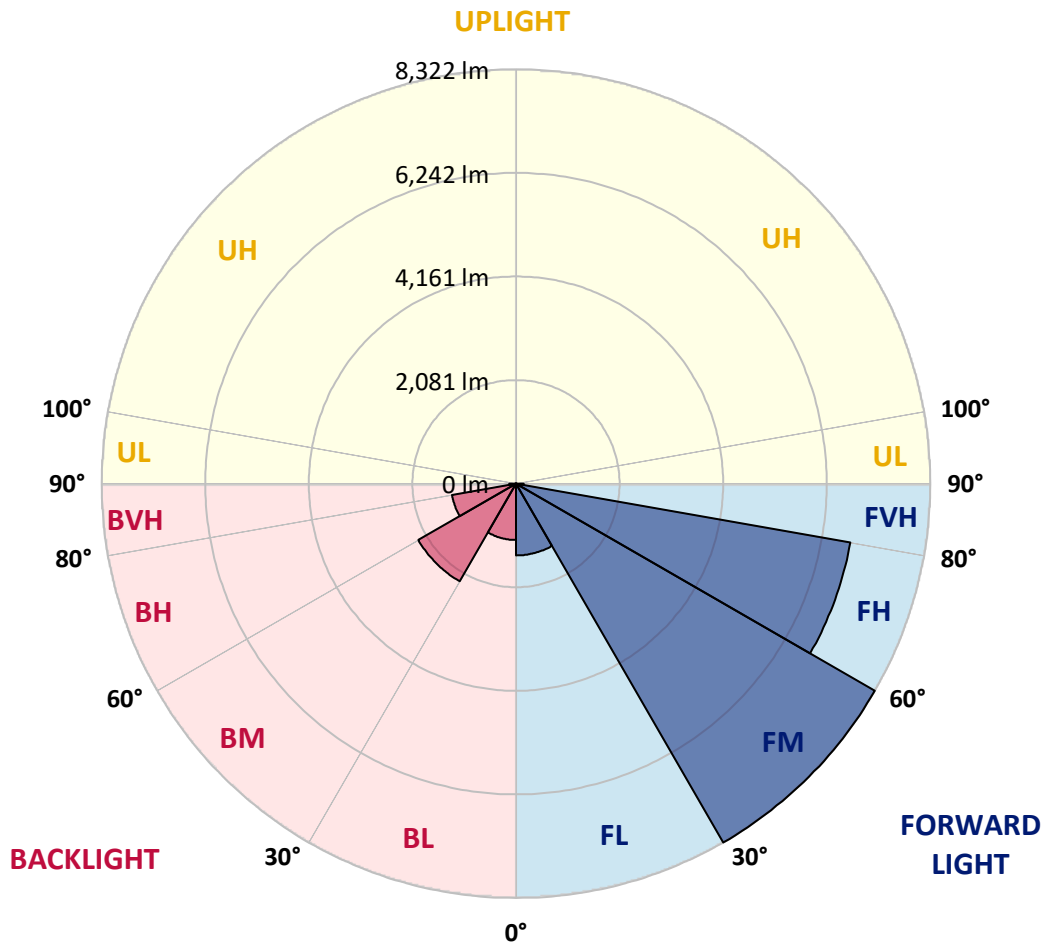


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.8	6.7			
FM (30°-60°)	8322.4	38.6			
FH (60°-80°)	6818.9	31.6			G3/7500
FVH (80°-90°)	152.7	0.7			G2/225
BL (0°-30°)	1131.7	5.2	B3/2500		
BM (30°-60°)	2263.3	10.5	B2/2500		
BH (60°-80°)	1306.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	136.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5
2.5°	2521.8	2535.3	2526.3	2553.4	2576.0	2576.0	2594.0	2580.5	2598.6	2623.4
5°	2605.3	2551.1	2580.5	2594.0	2587.3	2598.6	2580.5	2625.7	2596.3	2643.7
7.5°	2625.7	2646.0	2670.8	2648.2	2668.5	2657.3	2659.5	2652.7	2636.9	2675.3
10°	2774.7	2745.3	2801.7	2767.9	2763.4	2758.9	2749.8	2716.0	2754.3	2756.6
12.5°	2946.2	2919.1	2916.9	2889.8	2925.9	2860.4	2874.0	2855.9	2862.7	2871.7
15°	3070.4	3059.1	3111.0	3079.4	3032.0	3002.7	3034.3	2984.6	3009.5	3004.9
17.5°	3316.5	3314.2	3275.9	3223.9	3196.8	3153.9	3147.2	3126.9	3144.9	3135.9
20°	3488.1	3512.9	3519.7	3458.7	3354.9	3307.5	3296.2	3280.4	3300.7	3293.9
22.5°	3750.0	3711.6	3740.9	3634.8	3596.4	3483.6	3442.9	3420.3	3517.4	3492.6
25°	3917.0	3957.7	3928.3	3892.2	3806.4	3666.4	3637.1	3686.7	3725.1	3698.0
27.5°	4294.1	4253.4	4226.3	4118.0	4061.5	3914.8	3880.9	3862.8	3871.9	3887.7
30°	4580.8	4603.4	4542.4	4465.6	4323.4	4174.4	4095.4	4079.6	4048.0	4020.9
32.5°	4989.4	4955.6	4919.4	4869.8	4747.8	4551.4	4474.7	4416.0	4321.1	4194.7
35°	5185.8	5282.9	5255.8	5122.6	5030.1	4955.6	4933.0	4842.7	4763.6	4565.0
37.5°	5513.2	5553.8	5515.4	5472.6	5429.7	5350.6	5323.5	5348.4	5192.6	4865.2
40°	5725.4	5811.2	5890.2	5770.6	5761.5	5777.3	5610.3	5580.9	5260.3	5088.8
42.5°	6158.9	6195.0	6210.8	6206.3	6258.2	6258.2	5939.9	5876.7	5648.6	5508.7
45°	6732.3	6761.7	6818.1	6858.8	6800.1	6829.4	6375.6	6350.8	6147.6	6120.5
47.5°	7229.0	7299.0	7425.4	7545.1	7621.8	7522.5	7025.8	6849.7	6797.8	6960.3
50°	7662.5	7578.9	7874.7	7996.6	8333.0	8497.8	7743.8	7673.8	7590.2	7901.8
52.5°	7705.4	7818.3	8235.9	8479.7	9172.8	9477.6	8624.2	8594.9	8493.3	8852.3
55°	8012.4	7998.9	8418.8	8947.1	9771.1	10283.6	9771.1	9753.1	9531.8	9872.7
57.5°	7960.5	8098.2	8430.1	9168.3	10310.7	11148.3	11100.9	10976.7	10667.4	10945.1
60°	7784.4	7820.5	8224.6	9161.6	10624.5	12035.6	12536.8	12561.6	11929.4	12150.7
62.5°	6786.5	6870.0	7382.5	8441.4	10401.0	12647.4	13938.8	13850.7	13345.0	13092.1
65°	5398.1	5314.5	5847.3	6992.0	9010.3	12213.9	14552.8	14880.2	14085.5	13622.7
67.5°	3309.7	3289.4	3801.9	4811.1	6741.4	10394.2	14062.9	14318.0	13880.1	13509.8
70°	1704.5	1652.6	1973.2	2684.4	4237.6	7626.4	12238.7	12489.3	12907.0	12116.8
72.5°	794.7	783.4	955.0	1320.7	2158.3	4483.7	9477.6	9658.2	10538.7	10215.9
75°	467.3	474.1	571.2	690.8	1052.1	2113.2	6289.8	6639.8	7594.7	7362.2
77.5°	349.9	349.9	406.4	480.9	614.1	817.3	3104.3	3567.1	4440.8	3993.8
80°	257.4	261.9	311.6	361.2	426.7	422.2	1232.7	1444.9	2036.4	1740.7
82.5°	200.9	207.7	241.6	268.7	300.3	255.1	505.7	544.1	837.6	666.0
85°	140.0	144.5	189.6	182.9	182.9	142.2	210.0	221.3	331.9	316.1
87.5°	33.9	38.4	92.6	101.6	76.8	42.9	65.5	74.5	119.7	137.7
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°
2589.5	0°	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5	2589.5
2634.7	2.5°	2600.8	2609.8	2648.2	2627.9	2639.2	2591.8	2630.2	2598.6	2625.7	2612.1
2655.0	5°	2673.1	2652.7	2675.3	2659.5	2659.5	2677.6	2704.7	2684.4	2725.0	2706.9
2670.8	7.5°	2702.4	2704.7	2718.2	2720.5	2709.2	2765.6	2767.9	2761.1	2799.5	2790.5
2779.2	10°	2774.7	2776.9	2801.7	2815.3	2804.0	2824.3	2801.7	2783.7	2781.4	2772.4
2865.0	12.5°	2889.8	2912.4	2907.9	2919.1	2921.4	2835.6	2783.7	2695.6	2684.4	2695.6
2991.4	15°	2995.9	2986.9	2991.4	3014.0	2919.1	2781.4	2688.9	2614.4	2618.9	2621.1
3156.2	17.5°	3122.3	3129.1	3135.9	3032.0	2858.2	2695.6	2614.4	2614.4	2591.8	2600.8
3271.3	20°	3266.8	3239.7	3181.0	3034.3	2752.1	2596.3	2571.5	2571.5	2544.4	2526.3
3395.5	22.5°	3379.7	3325.5	3237.5	2964.3	2657.3	2557.9	2497.0	2454.1	2422.5	2386.3
3533.2	25°	3452.0	3422.6	3251.0	2892.1	2587.3	2456.3	2366.0	2300.5	2259.9	2212.5
3641.6	27.5°	3562.6	3506.1	3289.4	2808.5	2510.5	2354.7	2214.8	2113.2	2036.4	1986.7
3806.4	30°	3711.6	3630.3	3262.3	2688.9	2393.1	2178.6	2013.8	1882.9	1794.8	1754.2
3962.2	32.5°	3833.5	3727.4	3239.7	2580.5	2262.2	2000.3	1781.3	1648.1	1598.4	1546.5
4224.1	35°	4066.0	3856.1	3223.9	2519.5	2144.8	1821.9	1591.6	1476.5	1413.3	1336.5
4379.8	37.5°	4244.4	4079.6	3185.5	2393.1	1993.5	1648.1	1447.2	1343.3	1248.5	1167.2
4741.1	40°	4524.3	4391.1	3187.8	2214.8	1815.2	1499.1	1334.3	1225.9	1106.3	1036.3
5276.1	42.5°	5050.4	4698.2	3201.4	2072.5	1614.2	1377.2	1232.7	1104.0	984.3	925.6
5885.7	45°	5696.1	5120.4	3117.8	1943.8	1408.8	1262.0	1110.8	982.1	905.3	862.4
6714.3	47.5°	6438.8	5533.5	3004.9	1702.3	1237.2	1140.1	997.9	923.4	866.9	842.1
7782.1	50°	7269.6	6125.0	2973.3	1481.0	1104.0	1036.3	943.7	887.3	848.9	819.5
8985.5	52.5°	8339.8	6813.6	2910.1	1253.0	988.9	952.7	923.4	885.0	851.1	826.3
10107.5	55°	9362.5	7576.7	2842.4	1065.6	907.6	912.1	927.9	894.0	864.7	826.3
11365.0	57.5°	10513.9	8355.6	2591.8	927.9	846.6	891.8	923.4	885.0	855.7	826.3
12651.9	60°	11225.1	8793.6	2101.9	808.2	792.4	853.4	896.3	855.7	824.0	835.3
13243.4	62.5°	11514.0	8563.3	1584.9	733.7	754.1	801.5	853.4	837.6	815.0	857.9
13236.6	65°	11021.9	8032.7	1133.3	670.5	702.1	749.5	815.0	833.1	839.8	923.4
12157.5	67.5°	9807.2	6994.2	833.1	618.6	647.9	717.9	842.1	871.5	866.9	970.8
10202.3	70°	7847.6	5470.3	650.2	575.7	627.6	742.8	880.5	880.5	848.9	970.8
7782.1	72.5°	5709.6	3856.1	559.9	526.0	575.7	681.8	876.0	873.7	833.1	887.3
4955.6	75°	3456.5	2244.1	494.4	476.4	494.4	584.7	837.6	824.0	767.6	763.1
2384.1	77.5°	1722.6	1128.8	404.1	422.2	431.2	489.9	736.0	756.3	679.6	661.5
941.4	80°	727.0	492.2	336.4	363.5	363.5	413.2	611.8	625.4	564.4	530.5
372.5	82.5°	331.9	282.2	286.7	316.1	295.8	320.6	485.4	501.2	458.3	401.9
158.0	85°	140.0	160.3	219.0	248.3	219.0	207.7	334.1	352.2	298.0	248.3
67.7	87.5°	63.2	88.0	137.7	180.6	110.6	97.1	178.4	185.1	149.0	110.6
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>
2589.5
2587.3
2682.1
2776.9
2772.4
2700.2
2652.7
2603.1
2499.2
2366.0
2221.5
2009.3
1776.8
1544.2
1329.8
1169.5
1043.0
930.2
871.5
837.6
824.0
824.0
824.0
824.0
826.3
846.6
923.4
977.6
950.5
855.7
754.1
650.2
519.3
392.8
250.6
103.9
0.0

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