

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: P477435

Luminaire Tested: **IFLD-M-SA4A-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

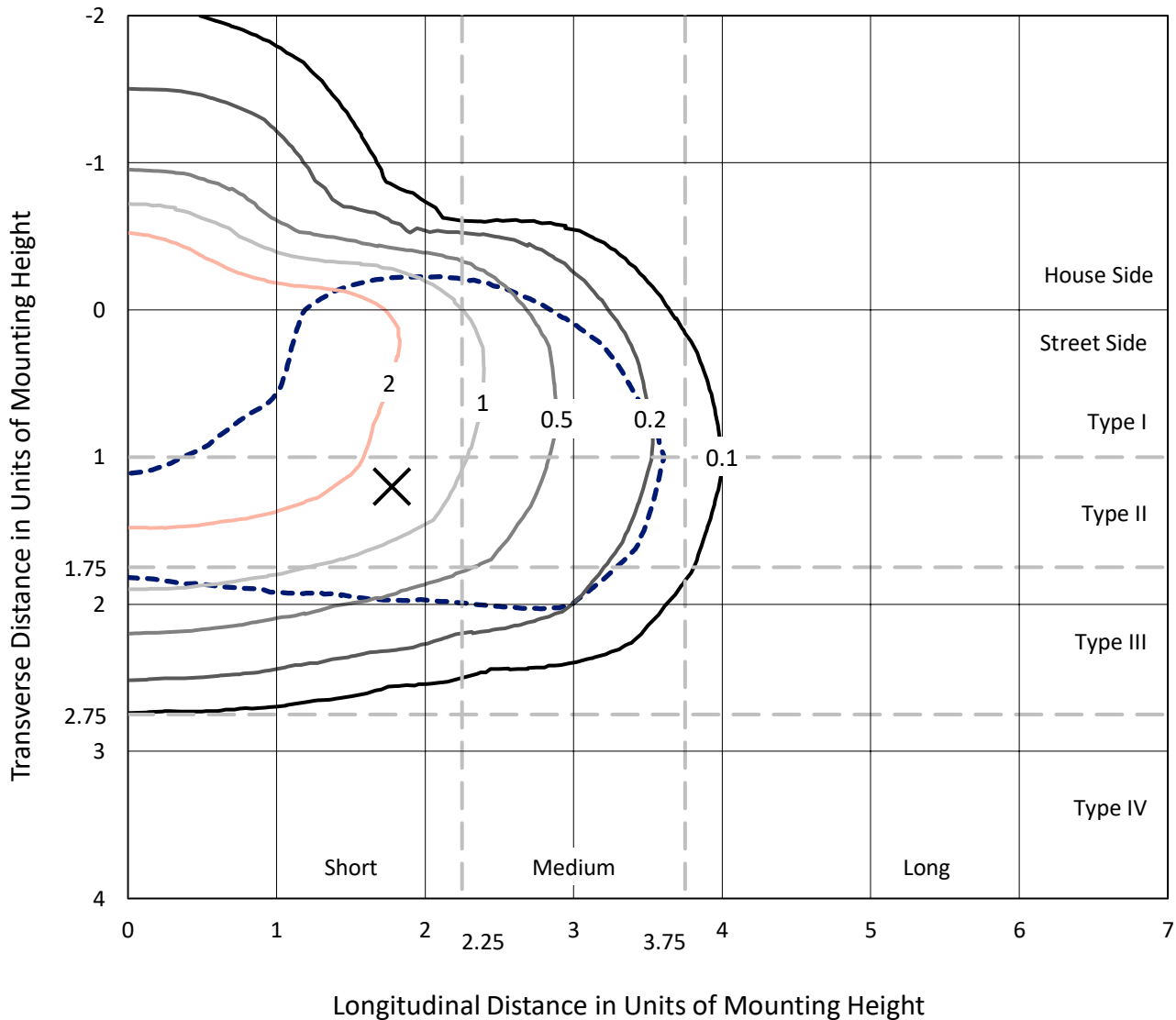
Lumens per Lamp: N/A
Luminaire Lumens: 19240.1 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6
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

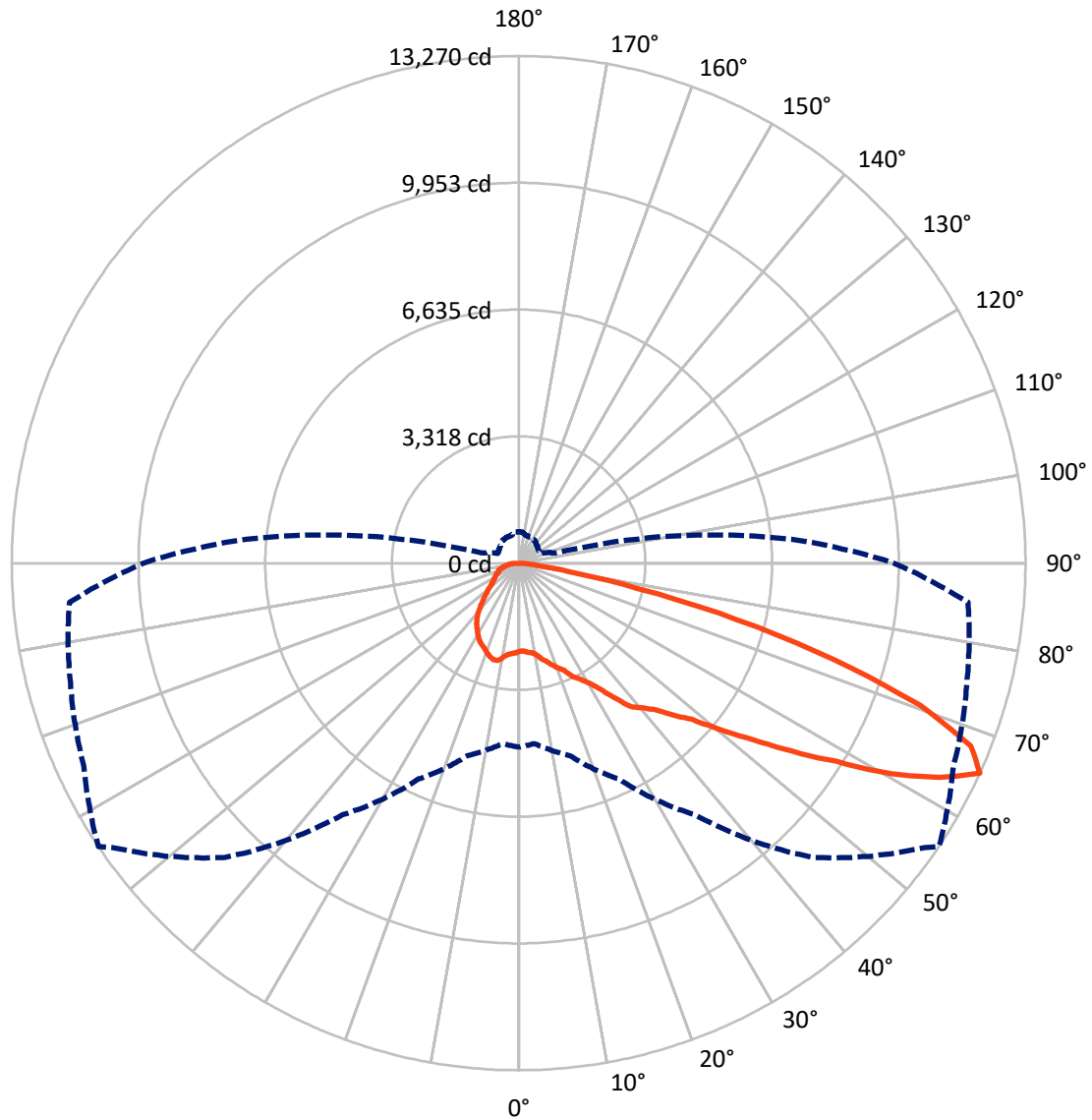
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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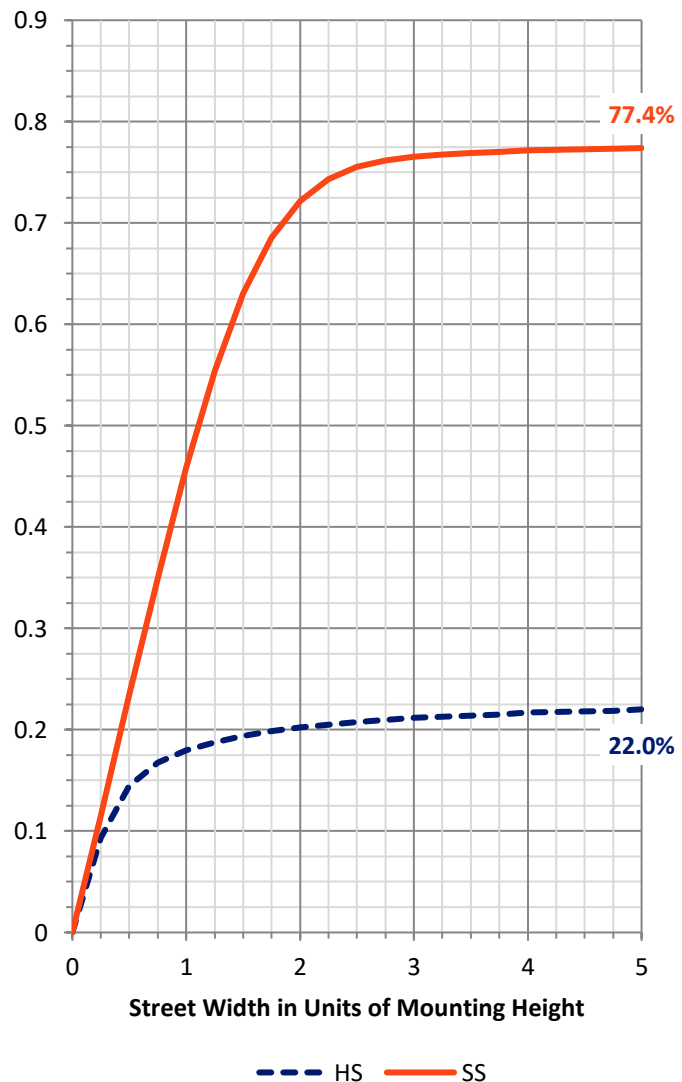
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4314.9	0.0	4314.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	14925.2	0.0	14925.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	19240.1	0.0	19240.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	1.2
10°-20°	743.1	3.9
20°-30°	1323.2	6.9
30°-40°	1981.4	10.3
40°-50°	2935.6	15.3
50°-60°	4523.4	23.5
60°-70°	5121.1	26.6
70°-80°	2125.3	11.0
80°-90°	258.2	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°	19240.1	100.0
0°-180°	19240.1	100.0

Coefficient of Utilization

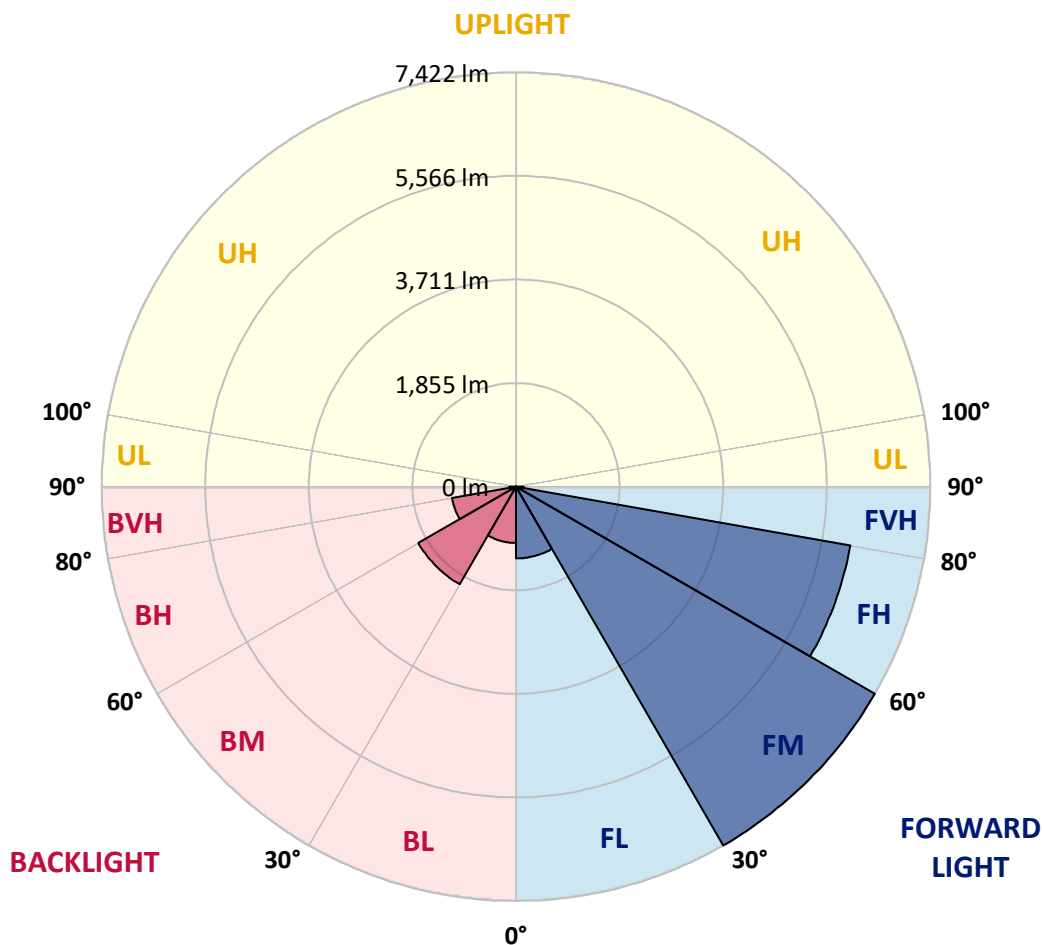


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.8	6.7			
FM (30°-60°)	7422.0	38.6			
FH (60°-80°)	6081.2	31.6			G3/7500
FVH (80°-90°)	136.2	0.7			G2/225
BL (0°-30°)	1009.3	5.2	B3/2500		
BM (30°-60°)	2018.5	10.5	B2/2500		
BH (60°-80°)	1165.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	122.0	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°	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4
2.5°	2249.0	2261.0	2253.0	2277.1	2297.3	2297.3	2313.4	2301.3	2317.4	2339.6
5°	2323.5	2275.1	2301.3	2313.4	2307.4	2317.4	2301.3	2341.6	2315.4	2357.7
7.5°	2341.6	2359.7	2381.8	2361.7	2379.8	2369.8	2371.8	2365.7	2351.6	2385.9
10°	2474.5	2448.3	2498.6	2468.4	2464.4	2460.4	2452.3	2422.1	2456.3	2458.4
12.5°	2627.5	2603.3	2601.3	2577.1	2609.4	2551.0	2563.1	2546.9	2553.0	2561.0
15°	2738.2	2728.2	2774.5	2746.3	2704.0	2677.8	2706.0	2661.7	2683.9	2679.8
17.5°	2957.7	2955.7	2921.4	2875.1	2851.0	2812.7	2806.7	2788.6	2804.7	2796.6
20°	3110.7	3132.8	3138.9	3084.5	2991.9	2949.6	2939.6	2925.5	2943.6	2937.5
22.5°	3344.2	3310.0	3336.2	3241.6	3207.3	3106.7	3070.4	3050.3	3136.9	3114.7
25°	3493.2	3529.5	3503.3	3471.1	3394.6	3269.8	3243.6	3287.9	3322.1	3297.9
27.5°	3829.5	3793.2	3769.1	3672.4	3622.1	3491.2	3461.0	3444.9	3453.0	3467.1
30°	4085.2	4105.3	4051.0	3982.5	3855.7	3722.8	3652.3	3638.2	3610.0	3585.9
32.5°	4449.6	4419.4	4387.2	4342.9	4234.2	4059.0	3990.5	3938.2	3853.6	3740.9
35°	4624.8	4711.3	4687.2	4568.4	4485.8	4419.4	4399.3	4318.7	4248.3	4071.1
37.5°	4916.7	4953.0	4918.7	4880.5	4842.2	4771.7	4747.6	4769.7	4630.8	4338.9
40°	5106.0	5182.5	5252.9	5146.2	5138.2	5152.3	5003.3	4977.1	4691.2	4538.2
42.5°	5492.5	5524.8	5538.8	5534.8	5581.1	5581.1	5297.2	5240.9	5037.5	4912.7
45°	6003.9	6030.1	6080.5	6116.7	6064.3	6090.5	5685.8	5663.7	5482.5	5458.3
47.5°	6446.9	6509.3	6622.1	6728.8	6797.2	6708.6	6265.7	6108.6	6062.3	6207.3
50°	6833.5	6759.0	7022.7	7131.4	7431.4	7578.4	6905.9	6843.5	6769.0	7046.9
52.5°	6871.7	6972.4	7344.9	7562.3	8180.4	8452.2	7691.2	7665.0	7574.4	7894.5
55°	7145.5	7133.5	7507.9	7979.1	8714.0	9171.0	8714.0	8697.9	8500.6	8804.6
57.5°	7099.2	7222.0	7518.0	8176.4	9195.2	9942.1	9899.9	9789.1	9513.3	9760.9
60°	6942.2	6974.4	7334.8	8170.4	9475.0	10733.4	11180.4	11202.5	10638.8	10836.1
62.5°	6052.3	6126.8	6583.8	7528.1	9275.7	11279.0	12430.7	12352.2	11901.2	11675.7
65°	4814.0	4739.5	5214.7	6235.5	8035.5	10892.5	12978.3	13270.3	12561.6	12148.8
67.5°	2951.6	2933.5	3390.6	4290.5	6012.0	9269.7	12541.4	12769.0	12378.4	12048.2
70°	1520.1	1473.8	1759.7	2393.9	3779.1	6801.2	10914.6	11138.1	11510.6	10805.9
72.5°	708.7	698.6	851.7	1177.8	1924.8	3998.6	8452.2	8613.3	9398.5	9110.6
75°	416.8	422.8	509.4	616.1	938.2	1884.5	5609.3	5921.4	6773.1	6565.7
77.5°	312.1	312.1	362.4	428.9	547.6	728.8	2768.4	3181.2	3960.3	3561.7
80°	229.5	233.6	277.8	322.1	380.5	376.5	1099.3	1288.6	1816.1	1552.3
82.5°	179.2	185.2	215.4	239.6	267.8	227.5	451.0	485.2	747.0	594.0
85°	124.8	128.9	169.1	163.1	163.1	126.8	187.2	197.3	296.0	281.9
87.5°	30.2	34.2	82.5	90.6	68.5	38.3	58.4	66.4	106.7	122.8
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°
2309.4	0°	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4	2309.4
2349.6	2.5°	2319.4	2327.5	2361.7	2343.6	2353.7	2311.4	2345.6	2317.4	2341.6	2329.5
2367.8	5°	2383.9	2365.7	2385.9	2371.8	2371.8	2387.9	2412.0	2393.9	2430.2	2414.1
2381.8	7.5°	2410.0	2412.0	2424.1	2426.1	2416.1	2466.4	2468.4	2462.4	2496.6	2488.6
2478.5	10°	2474.5	2476.5	2498.6	2510.7	2500.6	2518.8	2498.6	2482.5	2480.5	2472.4
2555.0	12.5°	2577.1	2597.3	2593.3	2603.3	2605.3	2528.8	2482.5	2404.0	2393.9	2404.0
2667.7	15°	2671.8	2663.7	2667.7	2687.9	2603.3	2480.5	2398.0	2331.5	2335.5	2337.6
2814.7	17.5°	2784.5	2790.6	2796.6	2704.0	2549.0	2404.0	2331.5	2331.5	2311.4	2319.4
2917.4	20°	2913.4	2889.2	2836.9	2706.0	2454.3	2315.4	2293.3	2293.3	2269.1	2253.0
3028.1	22.5°	3014.1	2965.7	2887.2	2643.6	2369.8	2281.2	2226.8	2188.6	2160.4	2128.2
3151.0	25°	3078.5	3052.3	2899.3	2579.2	2307.4	2190.6	2110.0	2051.6	2015.4	1973.1
3247.6	27.5°	3177.1	3126.8	2933.5	2504.7	2238.9	2100.0	1975.1	1884.5	1816.1	1771.8
3394.6	30°	3310.0	3237.5	2909.4	2398.0	2134.2	1942.9	1795.9	1679.2	1600.6	1564.4
3533.5	32.5°	3418.7	3324.1	2889.2	2301.3	2017.4	1783.9	1588.6	1469.8	1425.5	1379.2
3767.1	35°	3626.1	3438.9	2875.1	2246.9	1912.7	1624.8	1419.4	1316.8	1260.4	1191.9
3906.0	37.5°	3785.2	3638.2	2840.9	2134.2	1777.8	1469.8	1290.6	1198.0	1113.4	1040.9
4228.1	40°	4034.8	3916.1	2842.9	1975.1	1618.8	1336.9	1189.9	1093.3	986.6	924.1
4705.3	42.5°	4504.0	4189.9	2855.0	1848.3	1439.6	1228.2	1099.3	984.6	877.8	825.5
5248.9	45°	5079.8	4566.4	2780.5	1733.5	1256.4	1125.5	990.6	875.8	807.4	769.1
5987.8	47.5°	5742.2	4934.8	2679.8	1518.1	1103.3	1016.8	889.9	823.5	773.1	751.0
6940.2	50°	6483.1	5462.3	2651.6	1320.8	984.6	924.1	841.6	791.3	757.0	730.9
8013.3	52.5°	7437.5	6076.4	2595.3	1117.4	881.9	849.7	823.5	789.3	759.0	736.9
9014.0	55°	8349.5	6757.0	2534.9	950.3	809.4	813.4	827.5	797.3	771.1	736.9
10135.4	57.5°	9376.4	7451.6	2311.4	827.5	755.0	795.3	823.5	789.3	763.1	736.9
11283.1	60°	10010.6	7842.2	1874.5	720.8	706.7	761.1	799.3	763.1	734.9	745.0
11810.6	62.5°	10268.3	7636.8	1413.4	654.4	672.5	714.8	761.1	747.0	726.8	765.1
11804.5	65°	9829.4	7163.7	1010.7	598.0	626.2	668.4	726.8	742.9	749.0	823.5
10842.1	67.5°	8746.2	6237.5	742.9	551.7	577.8	640.3	751.0	777.2	773.1	865.8
9098.5	70°	6998.6	4878.5	579.9	513.4	559.7	662.4	785.2	785.2	757.0	865.8
6940.2	72.5°	5091.9	3438.9	499.3	469.1	513.4	608.0	781.2	779.2	742.9	791.3
4419.4	75°	3082.5	2001.3	440.9	424.8	440.9	521.5	747.0	734.9	684.6	680.5
2126.1	77.5°	1536.2	1006.7	360.4	376.5	384.6	436.9	656.4	674.5	606.0	589.9
839.6	80°	648.3	438.9	300.0	324.2	324.2	368.5	545.6	557.7	503.3	473.1
332.2	82.5°	296.0	251.7	255.7	281.9	263.8	285.9	432.9	447.0	408.7	358.4
140.9	85°	124.8	143.0	195.3	221.5	195.3	185.2	298.0	314.1	265.8	221.5
60.4	87.5°	56.4	78.5	122.8	161.1	98.7	86.6	159.1	165.1	132.9	98.7
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>
2309.4
2307.4
2391.9
2476.5
2472.4
2408.0
2365.7
2321.4
2228.8
2110.0
1981.2
1791.9
1584.5
1377.2
1185.9
1042.9
930.2
829.5
777.2
747.0
734.9
734.9
734.9
734.9
736.9
755.0
823.5
871.8
847.6
763.1
672.5
579.9
463.1
350.3
223.5
92.6
0.0

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