

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: P477358

Luminaire Tested: **IFLD-M-SA4B-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477358
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

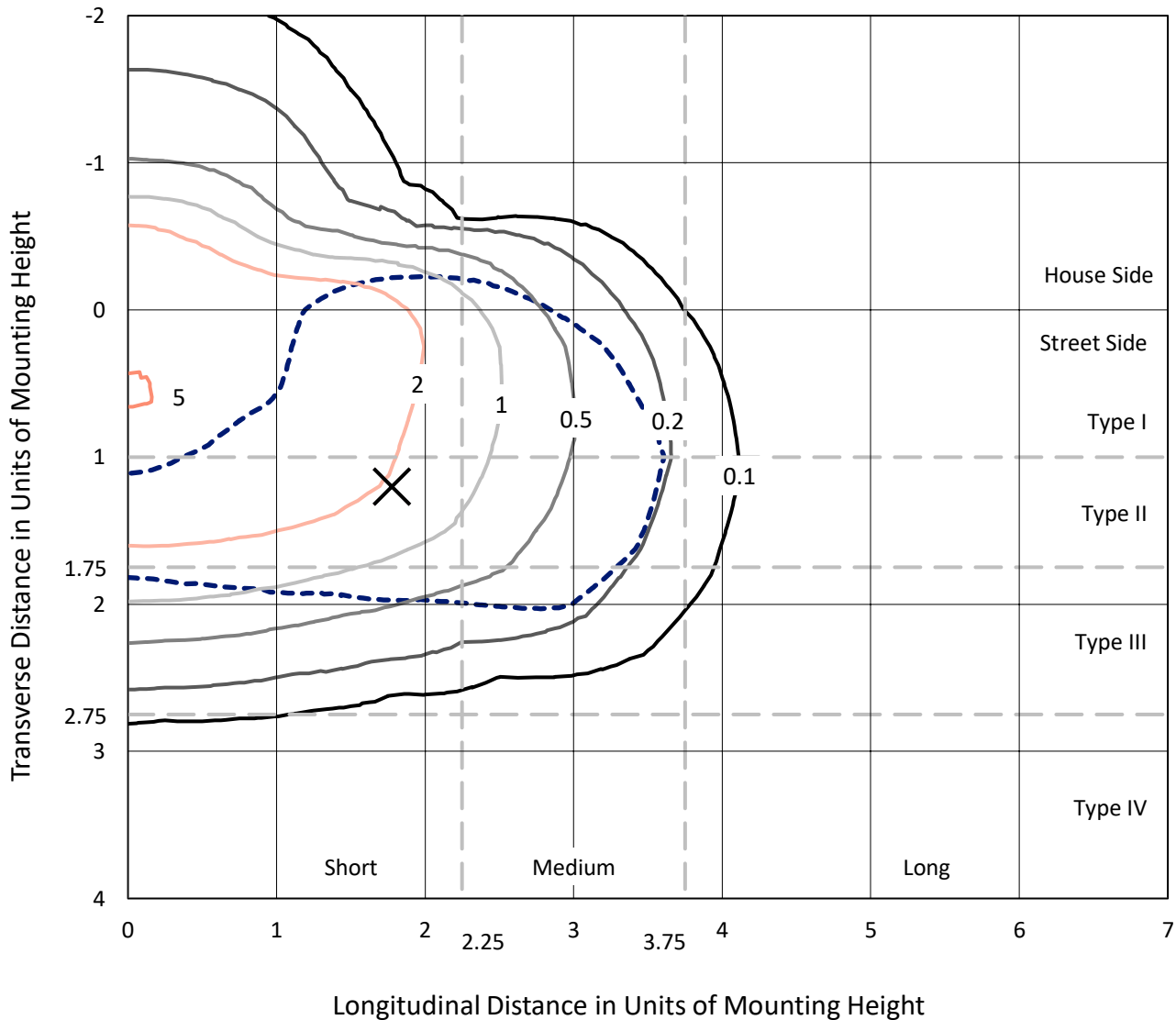
Lumens per Lamp: N/A
Luminaire Lumens: 22943.7 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

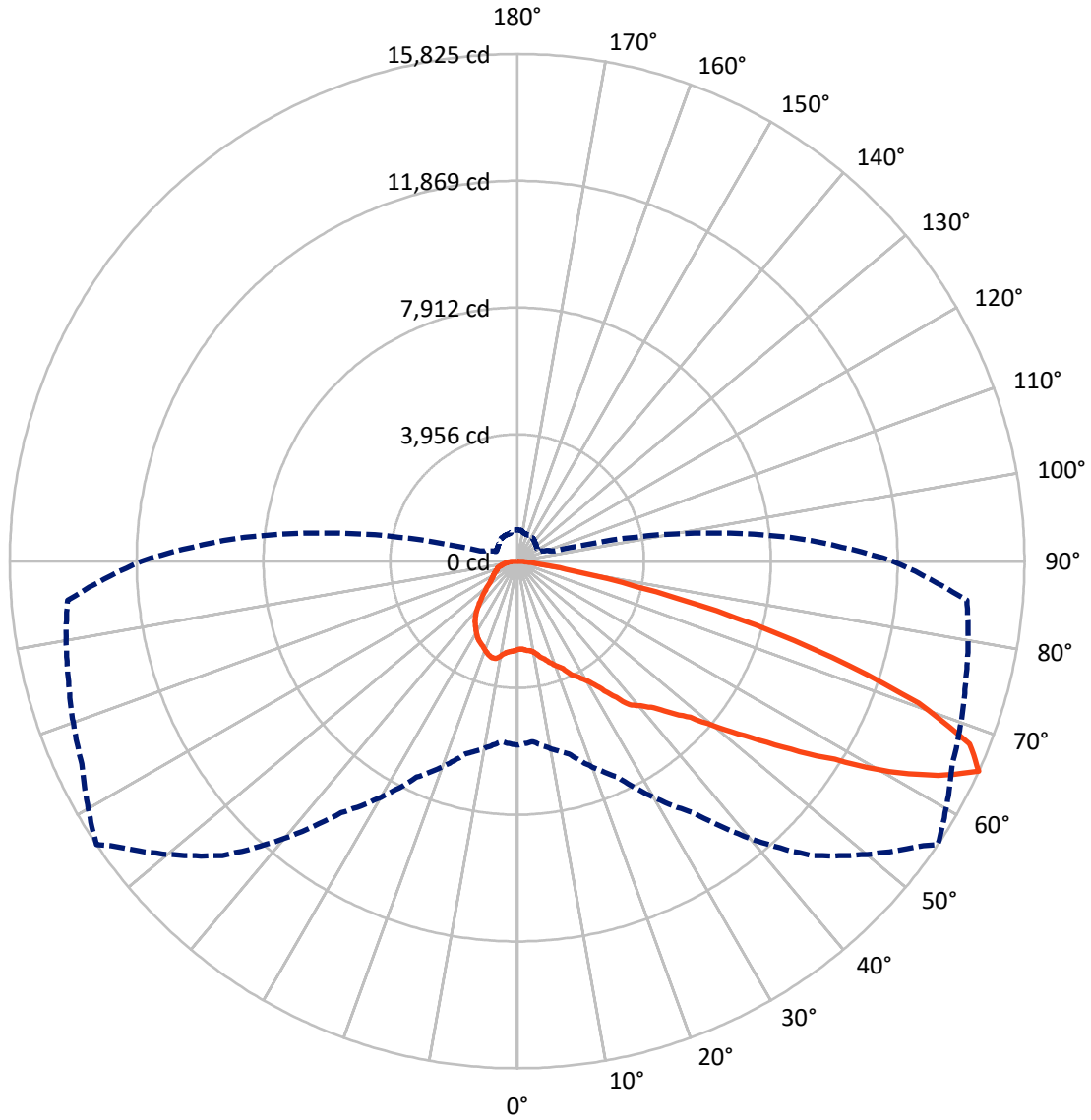
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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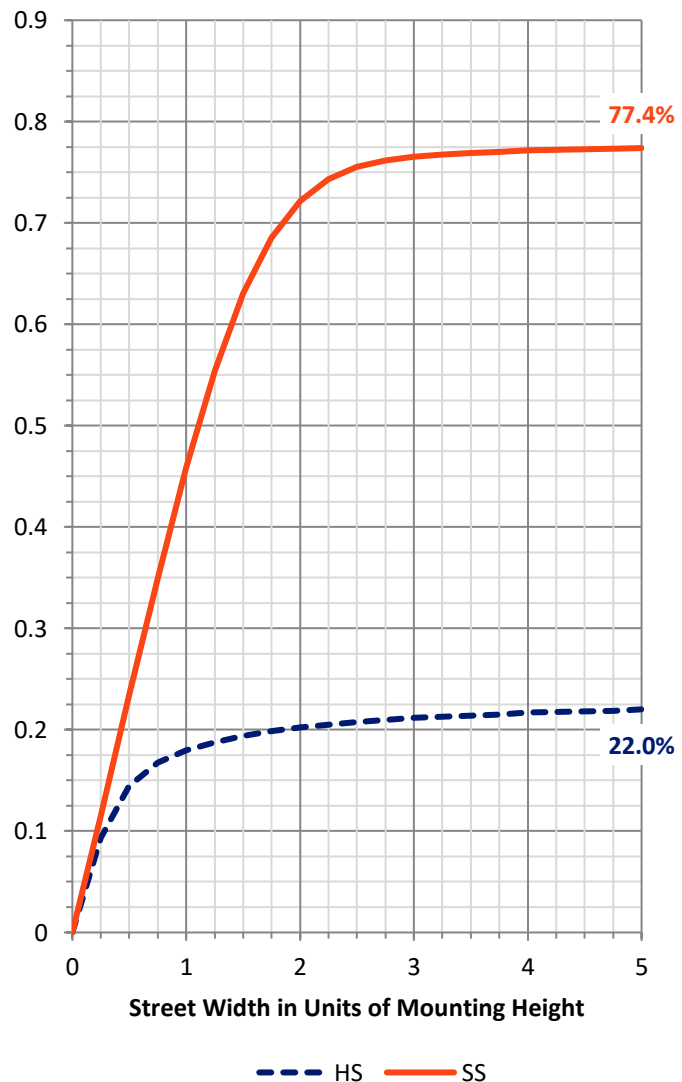
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5145.6	0.0	5145.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	17798.2	0.0	17798.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	22943.7	0.0	22943.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.9	1.2
10°-20°	886.2	3.9
20°-30°	1577.8	6.9
30°-40°	2362.8	10.3
40°-50°	3500.7	15.3
50°-60°	5394.2	23.5
60°-70°	6106.9	26.6
70°-80°	2534.4	11.0
80°-90°	307.9	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°	22943.7	100.0
0°-180°	22943.7	100.0

Coefficient of Utilization

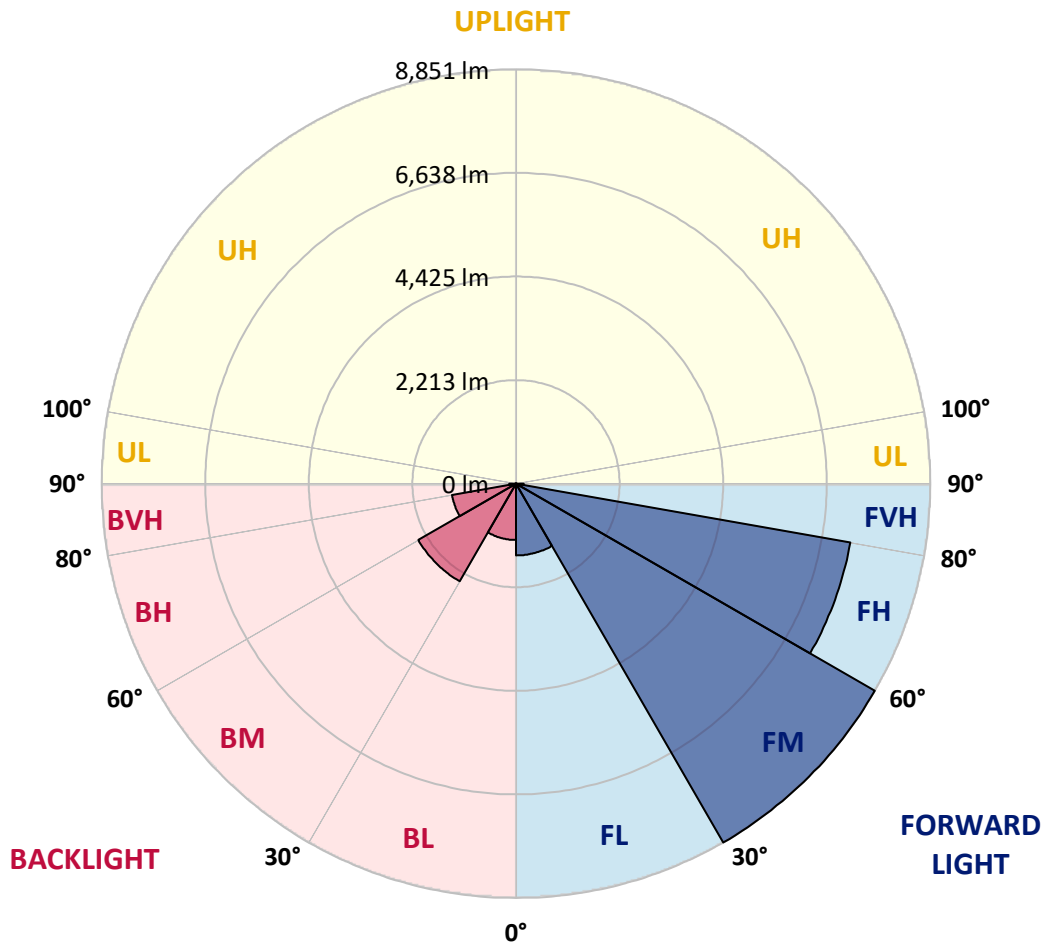


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.3	6.7			
FM (30°-60°)	8850.7	38.6			
FH (60°-80°)	7251.8	31.6			G3/7500
FVH (80°-90°)	162.4	0.7			G2/225
BL (0°-30°)	1203.6	5.2	B3/2500		
BM (30°-60°)	2407.0	10.5	B2/2500		
BH (60°-80°)	1389.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	145.5	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°	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9
2.5°	2681.9	2696.3	2686.7	2715.5	2739.5	2739.5	2758.7	2744.3	2763.5	2789.9
5°	2770.7	2713.1	2744.3	2758.7	2751.5	2763.5	2744.3	2792.3	2761.1	2811.5
7.5°	2792.3	2813.9	2840.3	2816.3	2837.9	2825.9	2828.3	2821.1	2804.3	2845.1
10°	2950.8	2919.6	2979.6	2943.6	2938.8	2934.0	2924.4	2888.4	2929.2	2931.6
12.5°	3133.3	3104.4	3102.0	3073.2	3111.6	3042.0	3056.4	3037.2	3044.4	3054.0
15°	3265.3	3253.3	3308.5	3274.9	3224.5	3193.3	3226.9	3174.1	3200.5	3195.7
17.5°	3527.0	3524.6	3483.8	3428.6	3399.8	3354.1	3346.9	3325.3	3344.5	3334.9
20°	3709.5	3735.9	3743.1	3678.3	3567.8	3517.4	3505.4	3488.6	3510.2	3503.0
22.5°	3988.0	3947.2	3978.4	3865.5	3824.7	3704.7	3661.5	3637.5	3740.7	3714.3
25°	4165.7	4208.9	4177.7	4139.3	4048.0	3899.2	3868.0	3920.8	3961.6	3932.8
27.5°	4566.6	4523.4	4494.6	4379.4	4319.3	4163.3	4127.3	4108.0	4117.7	4134.5
30°	4871.6	4895.6	4830.7	4749.1	4597.8	4439.4	4355.3	4338.5	4304.9	4276.1
32.5°	5306.1	5270.1	5231.7	5178.9	5049.2	4840.3	4758.7	4696.3	4595.4	4461.0
35°	5515.0	5618.3	5589.4	5447.8	5349.3	5270.1	5246.1	5150.1	5066.0	4854.7
37.5°	5863.2	5906.4	5865.6	5819.9	5774.3	5690.3	5661.5	5687.9	5522.2	5174.1
40°	6088.8	6180.1	6264.1	6136.9	6127.3	6144.1	5966.4	5935.2	5594.2	5411.8
42.5°	6549.8	6588.2	6605.0	6600.2	6655.5	6655.5	6316.9	6249.7	6007.2	5858.3
45°	7159.7	7190.9	7250.9	7294.1	7231.7	7262.9	6780.3	6753.9	6537.8	6509.0
47.5°	7687.9	7762.3	7896.8	8024.0	8105.6	8000.0	7471.8	7284.5	7229.3	7402.2
50°	8148.9	8060.0	8374.6	8504.2	8862.0	9037.2	8235.3	8160.9	8072.0	8403.4
52.5°	8194.5	8314.5	8758.7	9018.0	9755.1	10079.2	9171.7	9140.5	9032.4	9414.2
55°	8521.0	8506.6	8953.2	9515.0	10391.4	10936.4	10391.4	10372.2	10136.9	10499.4
57.5°	8465.8	8612.3	8965.2	9750.3	10965.2	11856.0	11805.5	11673.5	11344.5	11639.9
60°	8278.5	8316.9	8746.7	9743.1	11298.9	12799.5	13332.5	13359.0	12686.7	12922.0
62.5°	7217.3	7306.1	7851.1	8977.2	11061.2	13450.2	14823.5	14729.9	14192.1	13923.2
65°	5740.7	5651.9	6218.5	7435.8	9582.2	12989.2	15476.6	15824.7	14979.6	14487.4
67.5°	3519.8	3498.2	4043.2	5116.5	7169.3	11054.0	14955.6	15226.9	14761.1	14367.4
70°	1812.7	1757.5	2098.4	2854.7	4506.6	8110.5	13015.6	13282.1	13726.3	12886.0
72.5°	845.1	833.1	1015.6	1404.6	2295.3	4768.3	10079.2	10271.3	11207.7	10864.4
75°	497.0	504.2	607.4	734.7	1118.8	2247.3	6689.1	7061.2	8076.8	7829.5
77.5°	372.1	372.1	432.2	511.4	653.1	869.1	3301.3	3793.5	4722.7	4247.3
80°	273.7	278.5	331.3	384.2	453.8	449.0	1310.9	1536.6	2165.7	1851.1
82.5°	213.7	220.9	256.9	285.7	319.3	271.3	537.8	578.6	890.8	708.3
85°	148.9	153.7	201.7	194.5	194.5	151.3	223.3	235.3	352.9	336.1
87.5°	36.0	40.8	98.4	108.0	81.6	45.6	69.6	79.2	127.3	146.5
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°
2753.9	0°	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9
2801.9	2.5°	2765.9	2775.5	2816.3	2794.7	2806.7	2756.3	2797.1	2763.5	2792.3	2777.9
2823.5	5°	2842.7	2821.1	2845.1	2828.3	2828.3	2847.5	2876.4	2854.7	2898.0	2878.8
2840.3	7.5°	2874.0	2876.4	2890.8	2893.2	2881.2	2941.2	2943.6	2936.4	2977.2	2967.6
2955.6	10°	2950.8	2953.2	2979.6	2994.0	2982.0	3003.6	2979.6	2960.4	2958.0	2948.4
3046.8	12.5°	3073.2	3097.2	3092.4	3104.4	3106.8	3015.6	2960.4	2866.7	2854.7	2866.7
3181.3	15°	3186.1	3176.5	3181.3	3205.3	3104.4	2958.0	2859.5	2780.3	2785.1	2787.5
3356.5	17.5°	3320.5	3327.7	3334.9	3224.5	3039.6	2866.7	2780.3	2780.3	2756.3	2765.9
3479.0	20°	3474.2	3445.4	3383.0	3226.9	2926.8	2761.1	2734.7	2734.7	2705.9	2686.7
3611.0	22.5°	3594.2	3536.6	3443.0	3152.5	2825.9	2720.3	2655.5	2609.8	2576.2	2537.8
3757.5	25°	3671.1	3639.9	3457.4	3075.6	2751.5	2612.2	2516.2	2446.6	2403.4	2352.9
3872.8	27.5°	3788.7	3728.7	3498.2	2986.8	2669.9	2504.2	2355.3	2247.3	2165.7	2112.8
4048.0	30°	3947.2	3860.7	3469.4	2859.5	2545.0	2316.9	2141.7	2002.4	1908.8	1865.5
4213.7	32.5°	4076.8	3964.0	3445.4	2744.3	2405.8	2127.3	1894.4	1752.7	1699.9	1644.7
4492.2	35°	4324.1	4100.8	3428.6	2679.5	2280.9	1937.6	1692.7	1570.2	1503.0	1421.4
4657.9	37.5°	4513.8	4338.5	3387.8	2545.0	2120.0	1752.7	1539.0	1428.6	1327.7	1241.3
5042.0	40°	4811.5	4669.9	3390.2	2355.3	1930.4	1594.2	1419.0	1303.7	1176.5	1102.0
5611.0	42.5°	5371.0	4996.4	3404.6	2204.1	1716.7	1464.6	1310.9	1174.1	1046.8	984.4
6259.3	45°	6057.6	5445.4	3315.7	2067.2	1498.2	1342.1	1181.3	1044.4	962.8	917.2
7140.5	47.5°	6847.5	5884.8	3195.7	1810.3	1315.7	1212.5	1061.2	982.0	922.0	895.6
8276.1	50°	7731.1	6513.8	3162.1	1575.0	1174.1	1102.0	1003.6	943.6	902.8	871.5
9555.8	52.5°	8869.2	7246.1	3094.8	1332.5	1051.6	1013.2	982.0	941.2	905.2	878.8
10749.1	55°	9956.8	8057.6	3022.8	1133.3	965.2	970.0	986.8	950.8	919.6	878.8
12086.4	57.5°	11181.3	8886.0	2756.3	986.8	900.4	948.4	982.0	941.2	910.0	878.8
13455.0	60°	11937.6	9351.7	2235.3	859.5	842.7	907.6	953.2	910.0	876.4	888.4
14084.0	62.5°	12244.9	9106.9	1685.5	780.3	801.9	852.3	907.6	890.8	866.7	912.4
14076.8	65°	11721.5	8542.6	1205.3	713.1	746.7	797.1	866.7	886.0	893.2	982.0
12929.2	67.5°	10429.8	7438.2	886.0	657.9	689.1	763.5	895.6	926.8	922.0	1032.4
10849.9	70°	8345.7	5817.5	691.5	612.2	667.5	789.9	936.4	936.4	902.8	1032.4
8276.1	72.5°	6072.0	4100.8	595.4	559.4	612.2	725.1	931.6	929.2	886.0	943.6
5270.1	75°	3675.9	2386.6	525.8	506.6	525.8	621.8	890.8	876.4	816.3	811.5
2535.4	77.5°	1831.9	1200.5	429.8	449.0	458.6	521.0	782.7	804.3	722.7	703.5
1001.2	80°	773.1	523.4	357.7	386.6	386.6	439.4	650.7	665.1	600.2	564.2
396.2	82.5°	352.9	300.1	304.9	336.1	314.5	340.9	516.2	533.0	487.4	427.4
168.1	85°	148.9	170.5	232.9	264.1	232.9	220.9	355.3	374.6	316.9	264.1
72.0	87.5°	67.2	93.6	146.5	192.1	117.6	103.2	189.7	196.9	158.5	117.6
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>
2753.9
2751.5
2852.3
2953.2
2948.4
2871.6
2821.1
2768.3
2657.9
2516.2
2362.5
2136.9
1889.6
1642.3
1414.2
1243.7
1109.2
989.2
926.8
890.8
876.4
876.4
876.4
876.4
878.8
900.4
982.0
1039.6
1010.8
910.0
801.9
691.5
552.2
417.8
266.5
110.4
0.0

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