

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: P477418

Luminaire Tested: **IFLD-S-SA3D-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

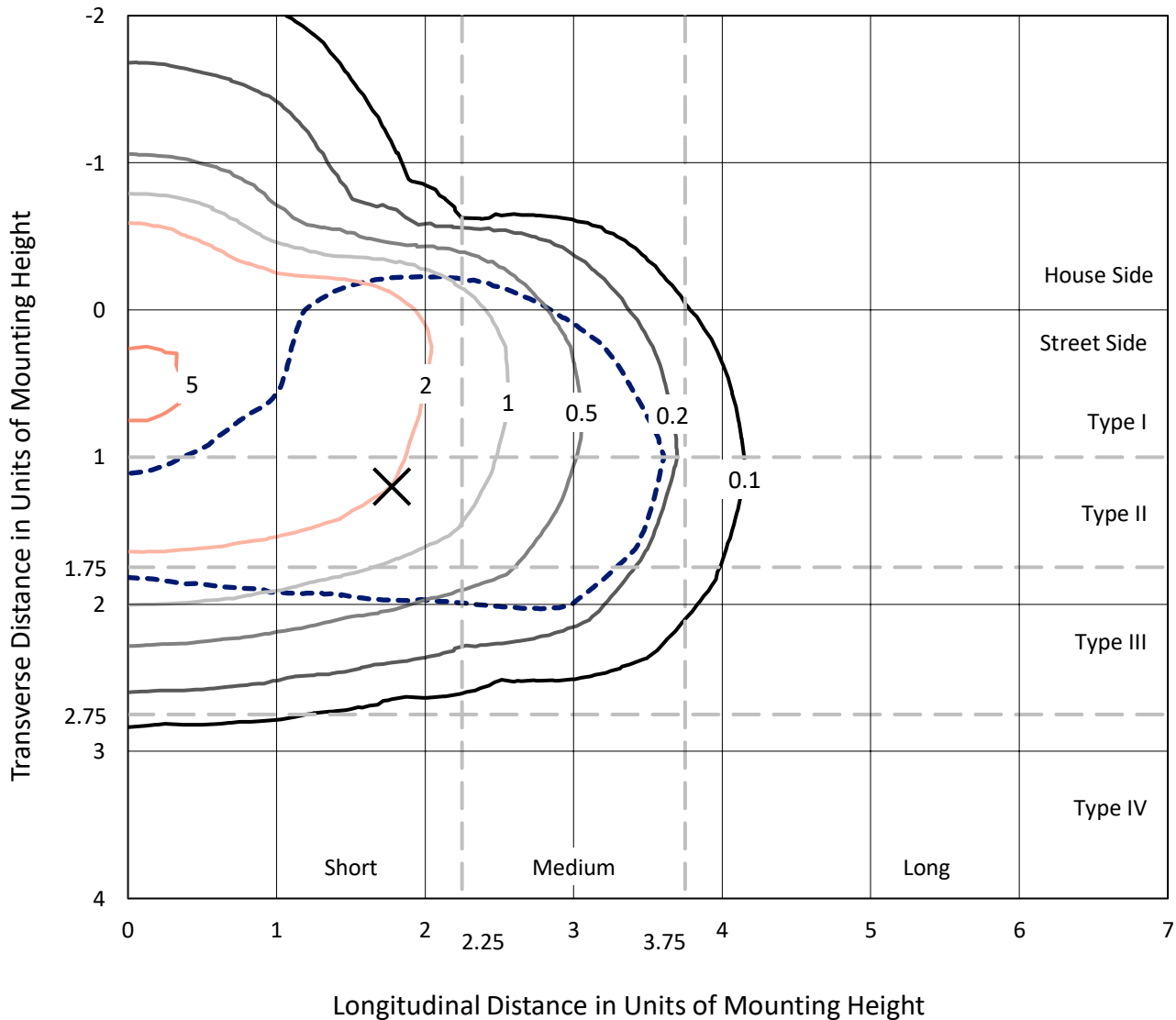
Lumens per Lamp: N/A
Luminaire Lumens: 24282.3 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

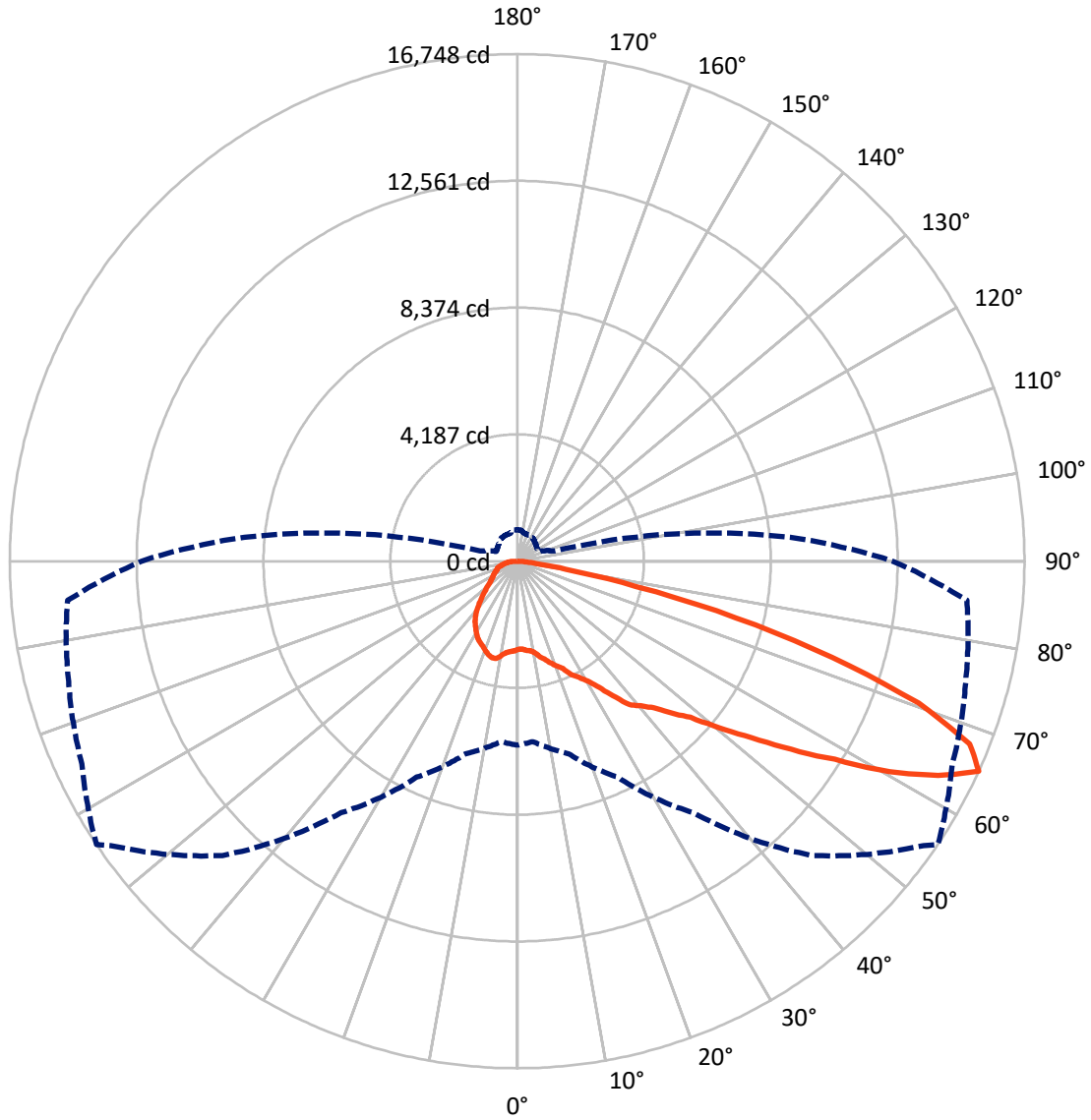
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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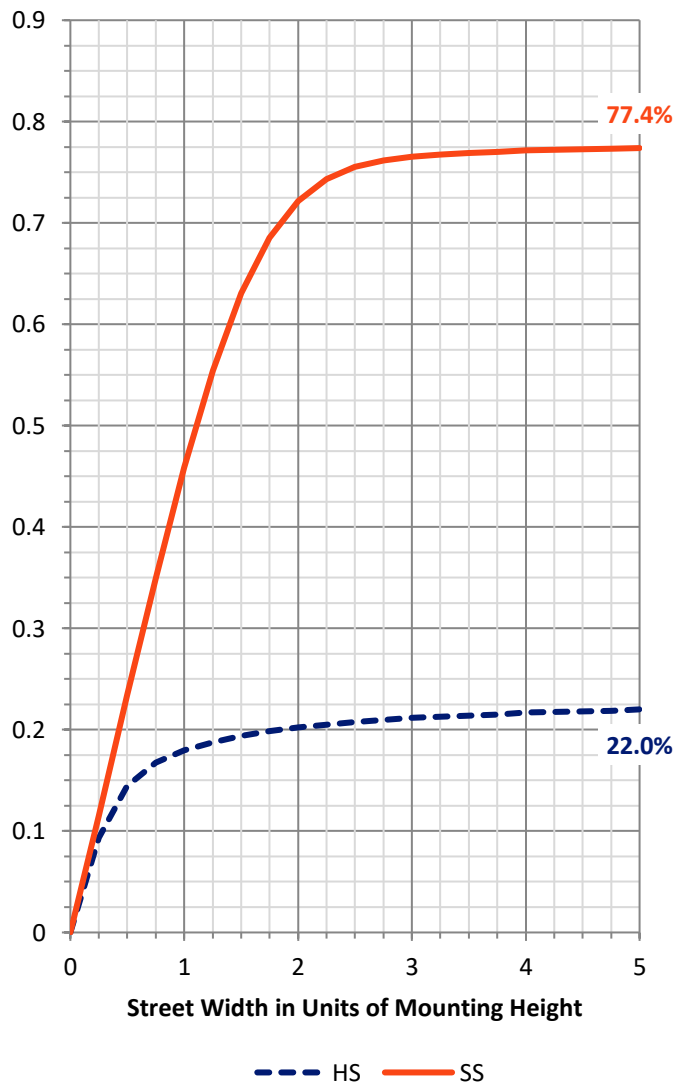
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5445.7	0.0	5445.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	18836.5	0.0	18836.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	24282.3	0.0	24282.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	1.2
10°-20°	937.9	3.9
20°-30°	1669.9	6.9
30°-40°	2500.6	10.3
40°-50°	3705.0	15.3
50°-60°	5708.9	23.5
60°-70°	6463.1	26.6
70°-80°	2682.3	11.0
80°-90°	325.9	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°	24282.3	100.0
0°-180°	24282.3	100.0

Coefficient of Utilization

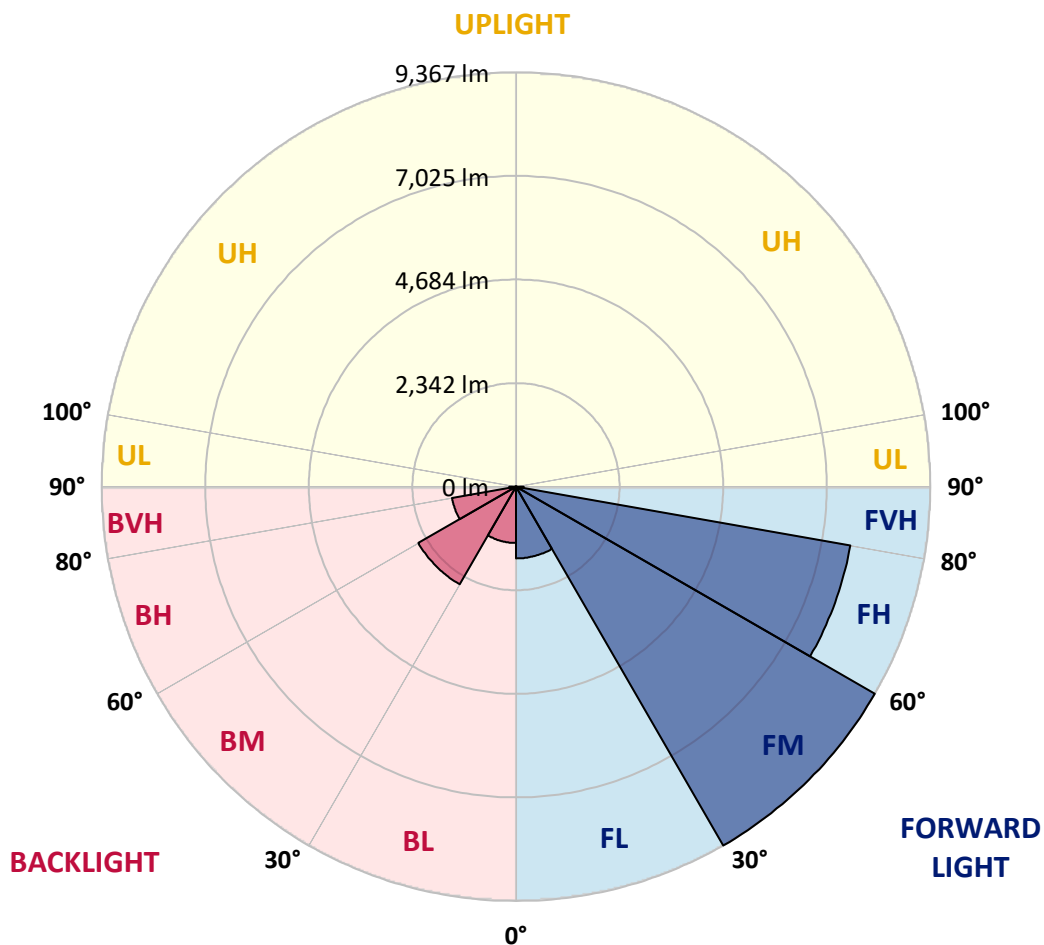


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1622.8	6.7			
FM (30°-60°)	9367.0	38.6			
FH (60°-80°)	7674.9	31.6			G4/12000
FVH (80°-90°)	171.9	0.7			G2/225
BL (0°-30°)	1273.8	5.2	B3/2500		
BM (30°-60°)	2547.4	10.5	B3/5000		
BH (60°-80°)	1470.5	6.1	B3/2500		G3/2500
BVH (80°-90°)	154.0	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6
2.5°	2838.3	2853.6	2843.4	2873.9	2899.3	2899.3	2919.6	2904.4	2924.7	2952.7
5°	2932.4	2871.4	2904.4	2919.6	2912.0	2924.7	2904.4	2955.2	2922.2	2975.6
7.5°	2955.2	2978.1	3006.0	2980.6	3003.5	2990.8	2993.3	2985.7	2967.9	3011.1
10°	3122.9	3089.9	3153.4	3115.3	3110.2	3105.1	3095.0	3056.9	3100.1	3102.6
12.5°	3316.0	3285.6	3283.0	3252.5	3293.2	3219.5	3234.7	3214.4	3222.0	3232.2
15°	3455.8	3443.1	3501.5	3466.0	3412.6	3379.6	3415.2	3359.2	3387.2	3382.1
17.5°	3732.8	3730.2	3687.0	3628.6	3598.1	3549.8	3542.2	3519.3	3539.7	3529.5
20°	3925.9	3953.8	3961.5	3892.9	3776.0	3722.6	3709.9	3692.1	3715.0	3707.4
22.5°	4220.7	4177.5	4210.5	4091.1	4047.9	3920.8	3875.1	3849.7	3958.9	3931.0
25°	4408.7	4454.4	4421.4	4380.7	4284.2	4126.6	4093.6	4149.5	4192.7	4162.2
27.5°	4833.0	4787.3	4756.8	4634.8	4571.3	4406.2	4368.0	4347.7	4357.9	4375.7
30°	5155.8	5181.2	5112.6	5026.2	4866.1	4698.4	4609.4	4591.6	4556.1	4525.6
32.5°	5615.7	5577.6	5536.9	5481.0	5343.8	5122.7	5036.3	4970.3	4863.5	4721.2
35°	5836.8	5946.0	5915.5	5765.6	5661.4	5577.6	5552.2	5450.5	5361.6	5138.0
37.5°	6205.2	6250.9	6207.7	6159.5	6111.2	6022.3	5991.8	6019.7	5844.4	5475.9
40°	6444.1	6540.6	6629.6	6494.9	6484.7	6502.5	6314.5	6281.4	5920.6	5727.5
42.5°	6931.9	6972.6	6990.4	6985.3	7043.7	7043.7	6685.5	6614.3	6357.7	6200.1
45°	7577.4	7610.4	7673.9	7719.7	7653.6	7686.6	7175.9	7147.9	6919.2	6888.7
47.5°	8136.4	8215.2	8357.5	8492.1	8578.5	8466.7	7907.7	7709.5	7651.1	7834.0
50°	8624.3	8530.3	8863.1	9000.3	9379.0	9564.5	8715.7	8637.0	8543.0	8893.6
52.5°	8672.6	8799.6	9269.7	9544.1	10324.2	10667.3	9706.8	9673.7	9559.4	9963.4
55°	9018.1	9002.9	9475.5	10070.1	10997.6	11574.4	10997.6	10977.3	10728.2	11111.9
57.5°	8959.7	9114.7	9488.2	10319.1	11604.9	12547.6	12494.3	12354.5	12006.4	12318.9
60°	8761.5	8802.1	9257.0	10311.5	11958.1	13546.3	14110.4	14138.3	13426.8	13675.8
62.5°	7638.3	7732.4	8309.2	9500.9	11706.5	14234.9	15688.3	15589.2	15020.1	14735.5
65°	6075.6	5981.6	6581.3	7869.6	10141.3	13747.0	16379.5	16748.0	15853.5	15332.6
67.5°	3725.2	3702.3	4279.1	5414.9	7587.5	11698.9	15828.1	16115.2	15622.3	15205.6
70°	1918.5	1860.0	2220.9	3021.3	4769.5	8583.6	13774.9	14057.0	14527.1	13637.7
72.5°	894.4	881.7	1074.9	1486.5	2429.2	5046.5	10667.3	10870.5	11861.5	11498.2
75°	526.0	533.6	642.9	777.6	1184.1	2378.4	7079.3	7473.2	8548.0	8286.3
77.5°	393.9	393.9	457.4	541.2	691.2	919.9	3493.9	4014.8	4998.2	4495.1
80°	289.7	294.8	350.7	406.6	480.3	475.2	1387.4	1626.3	2292.0	1959.1
82.5°	226.2	233.8	271.9	302.4	338.0	287.1	569.2	612.4	942.7	749.6
85°	157.5	162.6	213.4	205.8	205.8	160.1	236.3	249.0	373.5	355.7
87.5°	38.1	43.2	104.2	114.3	86.4	48.3	73.7	83.9	134.7	155.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2914.6	0°	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6
2965.4	2.5°	2927.3	2937.4	2980.6	2957.8	2970.5	2917.1	2960.3	2924.7	2955.2	2940.0
2988.3	5°	3008.6	2985.7	3011.1	2993.3	2993.3	3013.7	3044.2	3021.3	3067.0	3046.7
3006.0	7.5°	3041.6	3044.2	3059.4	3061.9	3049.2	3112.8	3115.3	3107.7	3150.9	3140.7
3128.0	10°	3122.9	3125.5	3153.4	3168.7	3156.0	3178.8	3153.4	3133.1	3130.6	3120.4
3224.6	12.5°	3252.5	3277.9	3272.9	3285.6	3288.1	3191.5	3133.1	3034.0	3021.3	3034.0
3366.9	15°	3372.0	3361.8	3366.9	3392.3	3285.6	3130.6	3026.4	2942.5	2947.6	2950.1
3552.4	17.5°	3514.3	3521.9	3529.5	3412.6	3216.9	3034.0	2942.5	2942.5	2917.1	2927.3
3682.0	20°	3676.9	3646.4	3580.3	3415.2	3097.5	2922.2	2894.2	2894.2	2863.7	2843.4
3821.7	22.5°	3803.9	3742.9	3643.8	3336.4	2990.8	2879.0	2810.4	2762.1	2726.5	2685.9
3976.7	25°	3885.2	3852.2	3659.1	3255.1	2912.0	2764.6	2663.0	2589.3	2543.6	2490.2
4098.7	27.5°	4009.8	3946.2	3702.3	3161.0	2825.6	2650.3	2492.8	2378.4	2292.0	2236.1
4284.2	30°	4177.5	4086.0	3671.8	3026.4	2693.5	2452.1	2266.6	2119.2	2020.1	1974.4
4459.5	32.5°	4314.7	4195.2	3646.4	2904.4	2546.1	2251.4	2004.9	1855.0	1799.1	1740.6
4754.3	35°	4576.4	4340.1	3628.6	2835.8	2414.0	2050.6	1791.4	1661.8	1590.7	1504.3
4929.6	37.5°	4777.1	4591.6	3585.4	2693.5	2243.7	1855.0	1628.8	1511.9	1405.2	1313.7
5336.2	40°	5092.2	4942.3	3587.9	2492.8	2043.0	1687.2	1501.8	1379.8	1245.1	1166.3
5938.4	42.5°	5684.3	5287.9	3603.2	2332.7	1816.8	1550.0	1387.4	1242.6	1107.9	1041.8
6624.5	45°	6411.0	5763.1	3509.2	2187.8	1585.6	1420.4	1250.2	1105.3	1019.0	970.7
7557.0	47.5°	7247.0	6228.1	3382.1	1915.9	1392.5	1283.2	1123.1	1039.3	975.8	947.8
8758.9	50°	8182.1	6893.8	3346.5	1666.9	1242.6	1166.3	1062.2	998.6	955.4	922.4
10113.3	52.5°	9386.6	7668.8	3275.4	1410.3	1113.0	1072.3	1039.3	996.1	958.0	930.0
11376.2	55°	10537.7	8527.7	3199.2	1199.4	1021.5	1026.6	1044.4	1006.2	973.2	930.0
12791.6	57.5°	11833.6	9404.4	2917.1	1044.4	952.9	1003.7	1039.3	996.1	963.1	930.0
14240.0	60°	12634.0	9897.3	2365.7	909.7	891.9	960.5	1008.8	963.1	927.5	940.2
14905.7	62.5°	12959.3	9638.1	1783.8	825.8	848.7	902.1	960.5	942.7	917.3	965.6
14898.1	65°	12405.3	9041.0	1275.6	754.7	790.3	843.6	917.3	937.6	945.3	1039.3
13683.5	67.5°	11038.3	7872.1	937.6	696.2	729.3	808.0	947.8	980.8	975.8	1092.6
11482.9	70°	8832.6	6156.9	731.8	648.0	706.4	836.0	991.0	991.0	955.4	1092.6
8758.9	72.5°	6426.3	4340.1	630.2	592.1	648.0	767.4	985.9	983.4	937.6	998.6
5577.6	75°	3890.3	2525.8	556.5	536.2	556.5	658.1	942.7	927.5	864.0	858.9
2683.3	77.5°	1938.8	1270.5	454.8	475.2	485.3	551.4	828.4	851.2	764.9	744.5
1059.6	80°	818.2	553.9	378.6	409.1	409.1	465.0	688.6	703.9	635.3	597.1
419.3	82.5°	373.5	317.6	322.7	355.7	332.9	360.8	546.3	564.1	515.8	452.3
177.9	85°	157.5	180.4	246.5	279.5	246.5	233.8	376.1	396.4	335.4	279.5
76.2	87.5°	71.1	99.1	155.0	203.3	124.5	109.3	200.7	208.4	167.7	124.5
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>
2914.6
2912.0
3018.7
3125.5
3120.4
3039.1
2985.7
2929.8
2812.9
2663.0
2500.4
2261.5
1999.8
1738.1
1496.7
1316.3
1174.0
1046.9
980.8
942.7
927.5
927.5
927.5
927.5
930.0
952.9
1039.3
1100.3
1069.8
963.1
848.7
731.8
584.4
442.1
282.1
116.9
0.0

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