

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: P636756

Luminaire Tested: **IFLD-M-SA4E-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636756
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17822.7 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

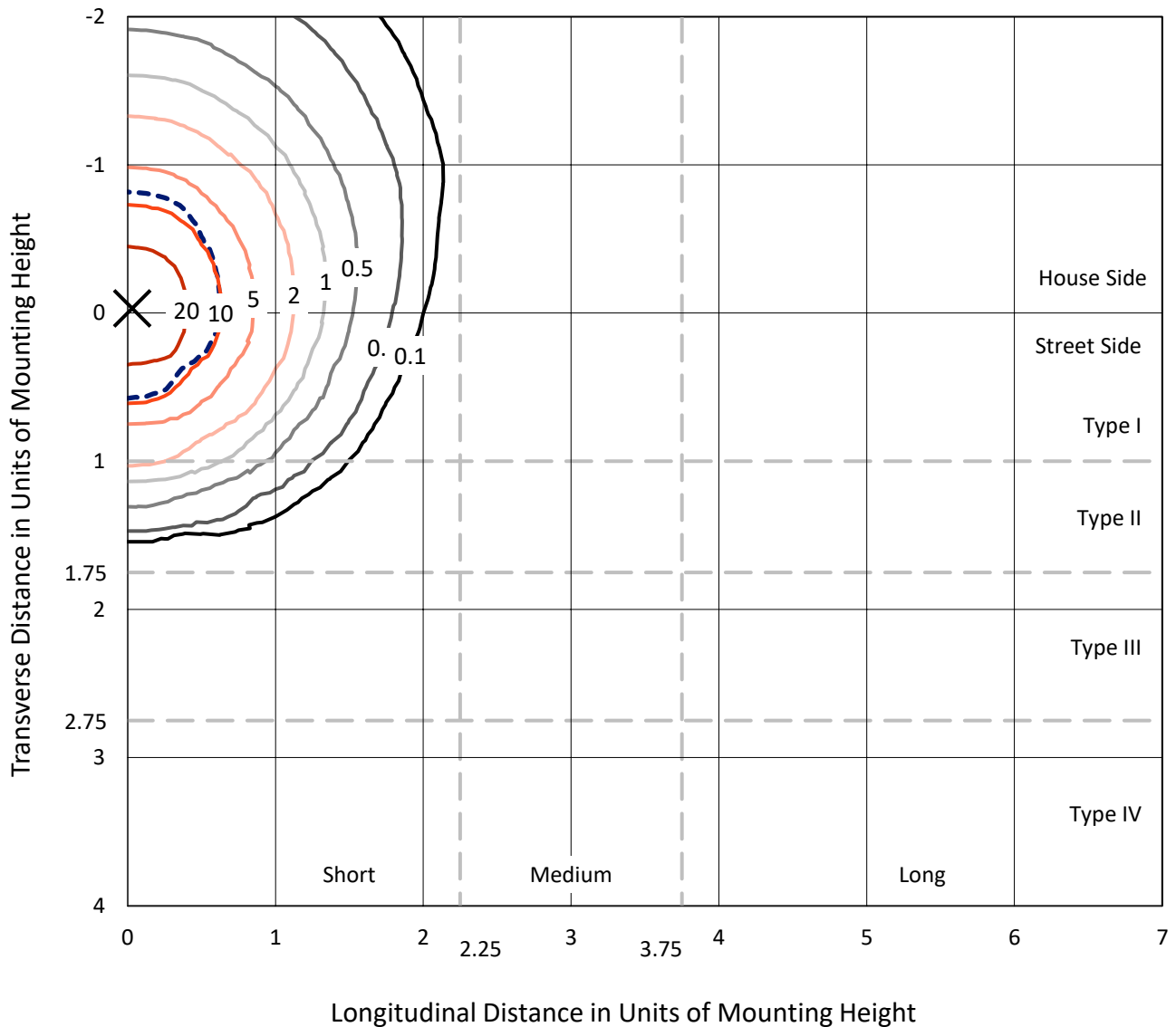
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

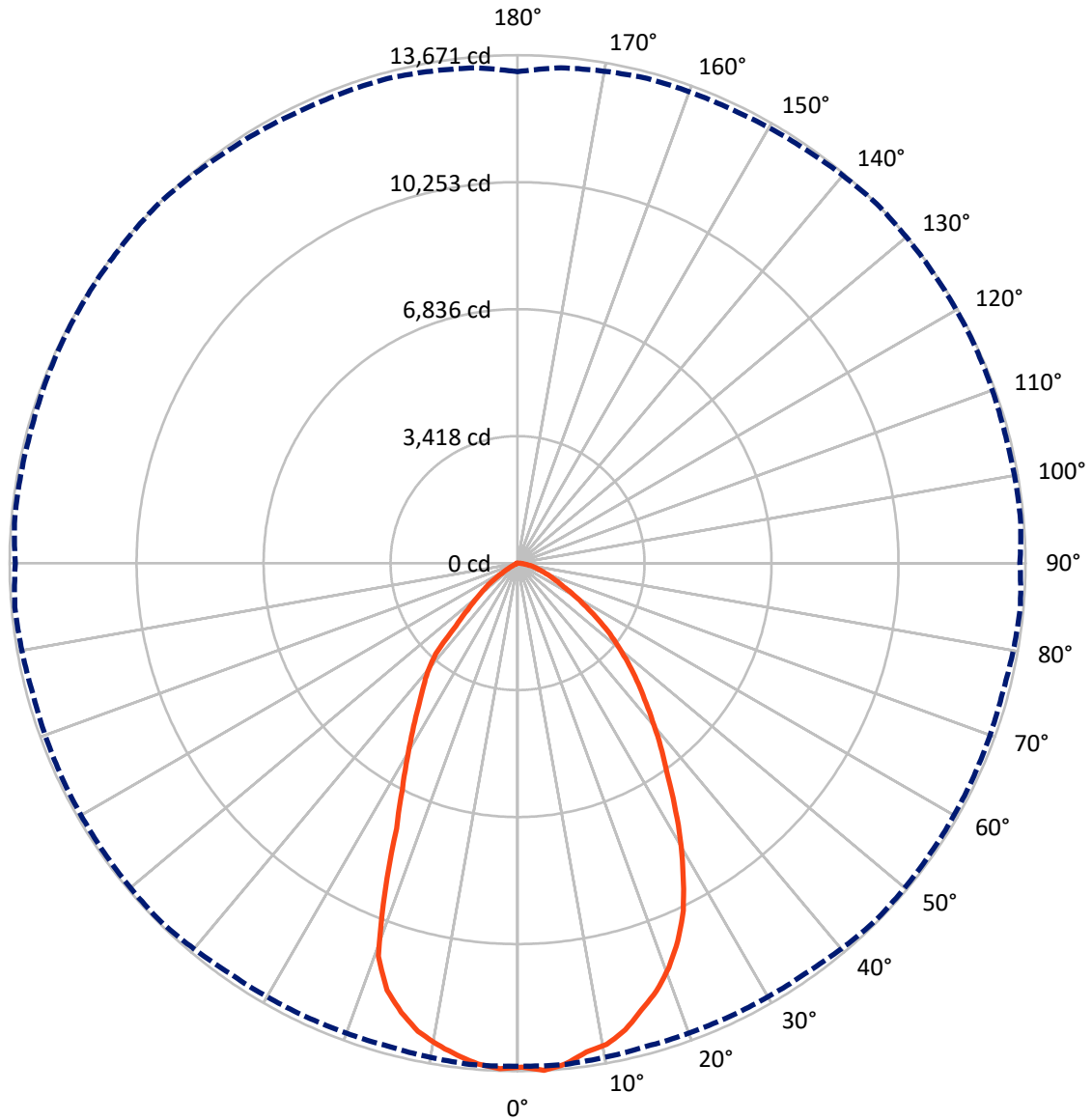
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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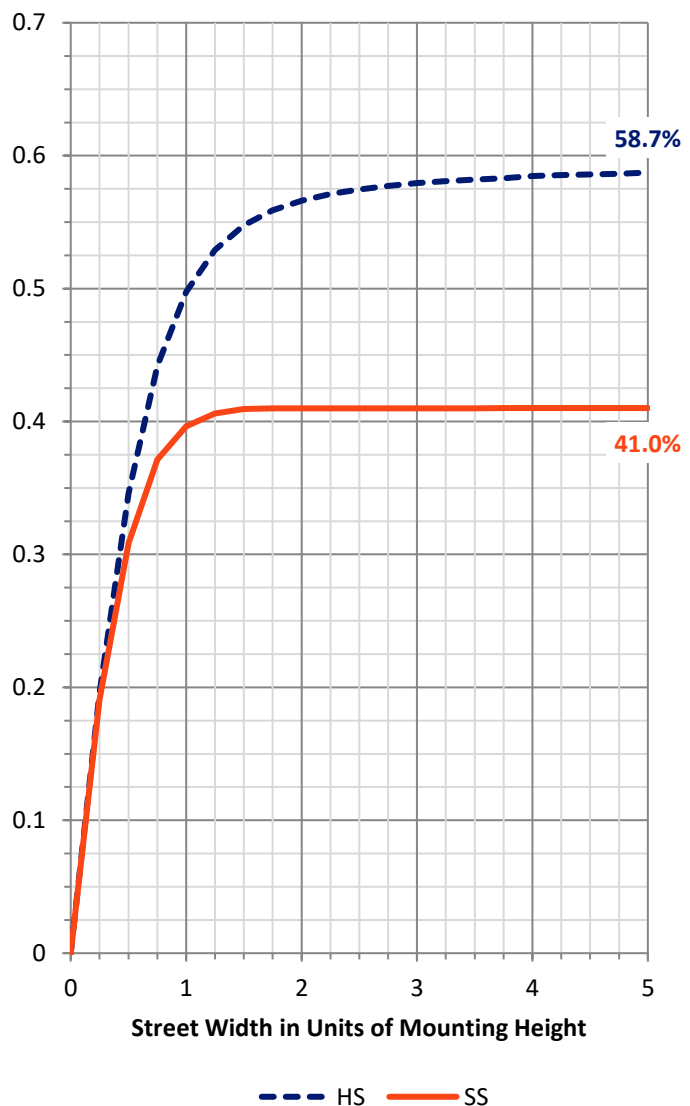
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10555.5	0.0	10555.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7267.2	0.0	7267.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	17822.7	0.0	17822.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1272.0	7.1
10°-20°	3410.9	19.1
20°-30°	4159.8	23.3
30°-40°	3797.9	21.3
40°-50°	2744.6	15.4
50°-60°	1498.6	8.4
60°-70°	619.6	3.5
70°-80°	250.9	1.4
80°-90°	68.3	0.4
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°	17822.7	100.0
0°-180°	17822.7	100.0



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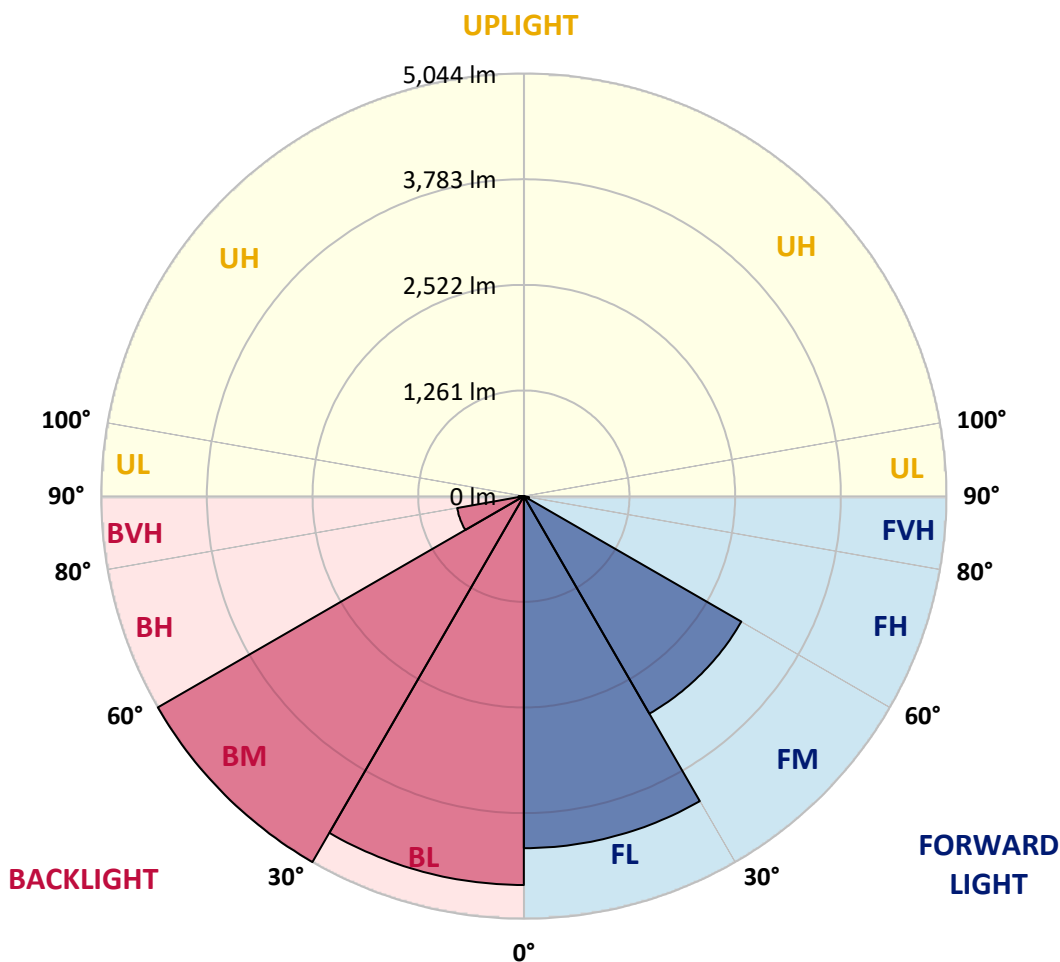
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4201.5	23.6			
FM (30°-60°)	2997.5	16.8			
FH (60°-80°)	62.8	0.4			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	4641.3	26.0	B4/5000		
BM (30°-60°)	5043.7	28.3	B4/8500		
BH (60°-80°)	807.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0
2.5°	13537.9	13555.5	13460.1	13470.2	13487.7	13615.7	13583.1	13553.0	13510.3	13583.1
5°	13520.4	13530.4	13430.0	13394.9	13409.9	13525.4	13420.0	13420.0	13409.9	13397.4
7.5°	13384.8	13389.9	13312.1	13249.3	13289.5	13342.2	13264.4	13302.0	13246.8	13289.5
10°	13181.5	13148.9	13056.1	13038.5	13083.7	13133.9	13081.2	13116.3	13066.1	13098.7
12.5°	12882.9	12832.7	12757.4	12734.8	12812.6	12880.4	12837.7	12817.6	12752.4	12832.7
15°	11730.9	11693.2	11863.9	12162.6	12431.1	12488.8	12443.7	12463.7	12328.2	12350.8
17.5°	9655.3	9585.0	9768.2	10476.0	11484.9	12017.0	11976.8	11846.3	11645.5	11690.7
20°	8774.3	8754.2	8734.2	8902.3	9607.6	11221.4	11276.6	10945.3	10659.2	10596.4
22.5°	8277.4	8269.8	8249.8	8287.4	8473.1	9509.7	10142.2	9836.0	9645.2	9627.6
25°	7823.1	7810.5	7750.3	7798.0	7798.0	7858.2	8668.9	8854.6	8686.5	8666.4
27.5°	7361.3	7338.7	7328.7	7351.2	7235.8	6829.2	7035.0	7941.1	7853.2	7858.2
30°	6861.8	6854.3	6826.7	6874.4	6518.0	6013.5	5883.0	7112.8	7130.4	7125.4
32.5°	6118.9	6151.6	6277.0	6329.8	5742.5	5325.8	5107.5	6154.1	6513.0	6505.4
35°	4444.9	4444.9	4854.0	5614.5	5032.2	4718.5	4600.5	5217.9	5903.1	5928.2
37.5°	3654.3	3666.8	3747.2	4093.5	4342.0	4231.5	4196.4	4392.2	5120.0	5160.2
40°	3287.9	3287.9	3287.9	3144.8	3137.3	3812.4	3792.3	3729.6	4422.3	4510.1
42.5°	2954.1	2961.6	2966.6	2605.2	2404.4	3295.4	3250.2	3154.8	3797.3	3900.3
45°	2610.2	2622.8	2637.8	2178.5	2090.7	2371.8	2750.8	2645.3	3179.9	3313.0
47.5°	1593.7	1613.8	1955.1	1847.2	1857.3	1829.7	2243.8	2226.2	2607.7	2795.9
50°	1076.7	1084.2	1116.9	1172.1	1593.7	1438.1	1588.7	1842.2	1980.2	2266.4
52.5°	903.5	916.1	835.8	760.5	1046.6	1124.4	1109.3	1367.8	1423.1	1776.9
55°	635.0	675.1	637.5	630.0	594.8	873.4	840.8	1051.6	1086.7	1350.3
57.5°	65.3	75.3	130.5	469.3	389.0	494.4	599.8	770.5	805.7	996.4
60°	5.0	5.0	12.5	65.3	283.6	296.2	414.1	474.4	542.1	695.2
62.5°	0.0	2.5	5.0	10.0	45.2	158.1	208.3	248.5	326.3	449.3
65°	0.0	0.0	2.5	7.5	10.0	60.2	80.3	130.5	178.2	278.6
67.5°	0.0	0.0	2.5	5.0	7.5	15.1	27.6	47.7	95.4	158.1
70°	0.0	0.0	2.5	5.0	7.5	12.5	20.1	30.1	42.7	85.3
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	15.1	20.1	30.1	42.7
75°	0.0	0.0	2.5	2.5	7.5	15.1	12.5	15.1	20.1	27.6
77.5°	0.0	0.0	2.5	5.0	7.5	15.1	12.5	15.1	15.1	17.6
80°	0.0	0.0	2.5	5.0	10.0	17.6	15.1	15.1	12.5	12.5
82.5°	0.0	0.0	2.5	7.5	10.0	22.6	22.6	20.1	10.0	7.5
85°	0.0	0.0	5.0	10.0	15.1	25.1	25.1	20.1	7.5	5.0
87.5°	0.0	0.0	5.0	7.5	12.5	17.6	25.1	20.1	7.5	2.5
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13563.0	0°	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0	13563.0
13520.4	2.5°	13588.1	13573.1	13623.3	13643.3	13671.0	13565.5	13500.3	13502.8	13382.3
13367.3	5°	13447.6	13450.1	13515.3	13510.3	13537.9	13480.2	13455.1	13412.4	13307.0
13174.0	7.5°	13269.4	13246.8	13309.5	13357.2	13287.0	13327.1	13269.4	13289.5	13226.7
13003.3	10°	13131.3	13078.6	13136.4	13169.0	13171.5	13131.3	13076.1	13023.4	13000.8
12737.3	12.5°	12825.2	12757.4	12855.3	12900.4	12892.9	12815.1	12752.4	12764.9	12692.1
12270.5	15°	12403.5	12406.0	12476.3	12519.0	12478.8	12461.2	12466.2	12436.1	12373.4
11625.5	17.5°	11758.5	11796.1	11981.9	12084.8	12107.3	12072.2	12054.6	12019.5	11956.8
10596.4	20°	10684.3	10910.2	11241.5	11560.2	11622.9	11612.9	11550.2	11535.1	11500.0
9577.5	22.5°	9740.6	9908.7	10292.7	10789.7	11045.7	11070.8	10995.5	10972.9	10935.3
8666.4	25°	8764.3	8945.0	9291.3	9830.9	10360.5	10468.4	10455.9	10388.1	10348.0
7858.2	27.5°	7941.1	8121.8	8435.5	8922.4	9489.6	9836.0	9868.6	9760.7	9758.2
7137.9	30°	7198.1	7446.6	7685.1	8081.6	8631.3	9150.8	9206.0	9130.7	9138.2
6477.8	32.5°	6615.9	6821.7	7025.0	7291.0	7747.8	8352.7	8568.5	8498.2	8470.6
5928.2	35°	6021.0	6161.6	6369.9	6613.4	6924.6	7524.4	7898.4	7845.7	7818.1
5185.3	37.5°	5343.4	5584.3	5734.9	6008.5	6251.9	6728.8	7255.9	7248.3	7190.6
4552.8	40°	4648.2	4901.7	5130.1	5406.1	5594.4	5973.4	6558.1	6555.6	6563.2
3897.7	42.5°	4018.2	4251.6	4527.7	4828.9	5009.6	5285.7	5913.1	5948.3	5990.9
3358.1	45°	3448.5	3659.3	3915.3	4281.7	4500.1	4658.2	5215.4	5376.0	5373.5
2876.2	47.5°	2936.5	3134.8	3350.6	3707.0	3985.6	4128.6	4590.5	4818.8	4803.8
2359.2	50°	2464.6	2640.3	2866.2	3124.7	3498.7	3624.2	3968.0	4269.2	4246.6
1879.9	52.5°	1982.8	2226.2	2417.0	2652.9	3046.9	3169.9	3435.9	3729.6	3712.0
1410.5	55°	1546.0	1782.0	2012.9	2216.2	2547.5	2730.7	2921.4	3222.6	3217.6
1104.3	57.5°	1169.6	1428.1	1646.4	1839.7	2103.2	2329.1	2482.2	2755.8	2790.9
755.5	60°	865.9	1064.2	1300.1	1515.9	1724.2	1957.7	2060.6	2329.1	2344.2
517.0	62.5°	589.8	808.2	1039.1	1234.8	1390.4	1631.4	1724.2	1945.1	1972.7
331.3	65°	409.1	549.6	813.2	953.7	1144.5	1350.3	1443.1	1618.8	1674.0
190.7	67.5°	271.1	391.5	635.0	763.0	951.2	1091.8	1209.7	1352.8	1413.0
120.5	70°	148.1	288.6	454.3	602.4	765.5	901.0	1016.5	1131.9	1184.6
55.2	72.5°	100.4	193.3	316.2	476.9	617.4	750.4	853.3	938.7	941.2
32.6	75°	50.2	130.5	240.9	368.9	481.9	612.4	705.3	755.5	695.2
20.1	77.5°	30.1	95.4	195.8	296.2	391.5	494.4	547.1	574.7	476.9
15.1	80°	17.6	67.8	153.1	235.9	271.1	363.9	414.1	421.6	318.7
10.0	82.5°	12.5	50.2	120.5	173.2	165.6	256.0	311.2	301.2	203.3
7.5	85°	7.5	35.1	75.3	107.9	100.4	168.2	180.7	185.7	118.0
5.0	87.5°	5.0	20.1	40.2	57.7	47.7	72.8	72.8	87.8	57.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13563.0
13226.7
13281.9
13121.3
12900.4
12629.4
12310.6
11929.1
11419.7
10925.2
10305.3
9753.1
9100.6
8473.1
7780.4
7238.3
6563.2
5968.3
5378.5
4808.8
4266.7
3749.7
3230.1
2775.9
2366.8
1977.7
1661.5
1405.5
1164.6
918.6
650.0
459.3
298.7
188.2
107.9
50.2
0.0

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