

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: P638284

Luminaire Tested: **IFLD-S-SA6A-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638284
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16496.1 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

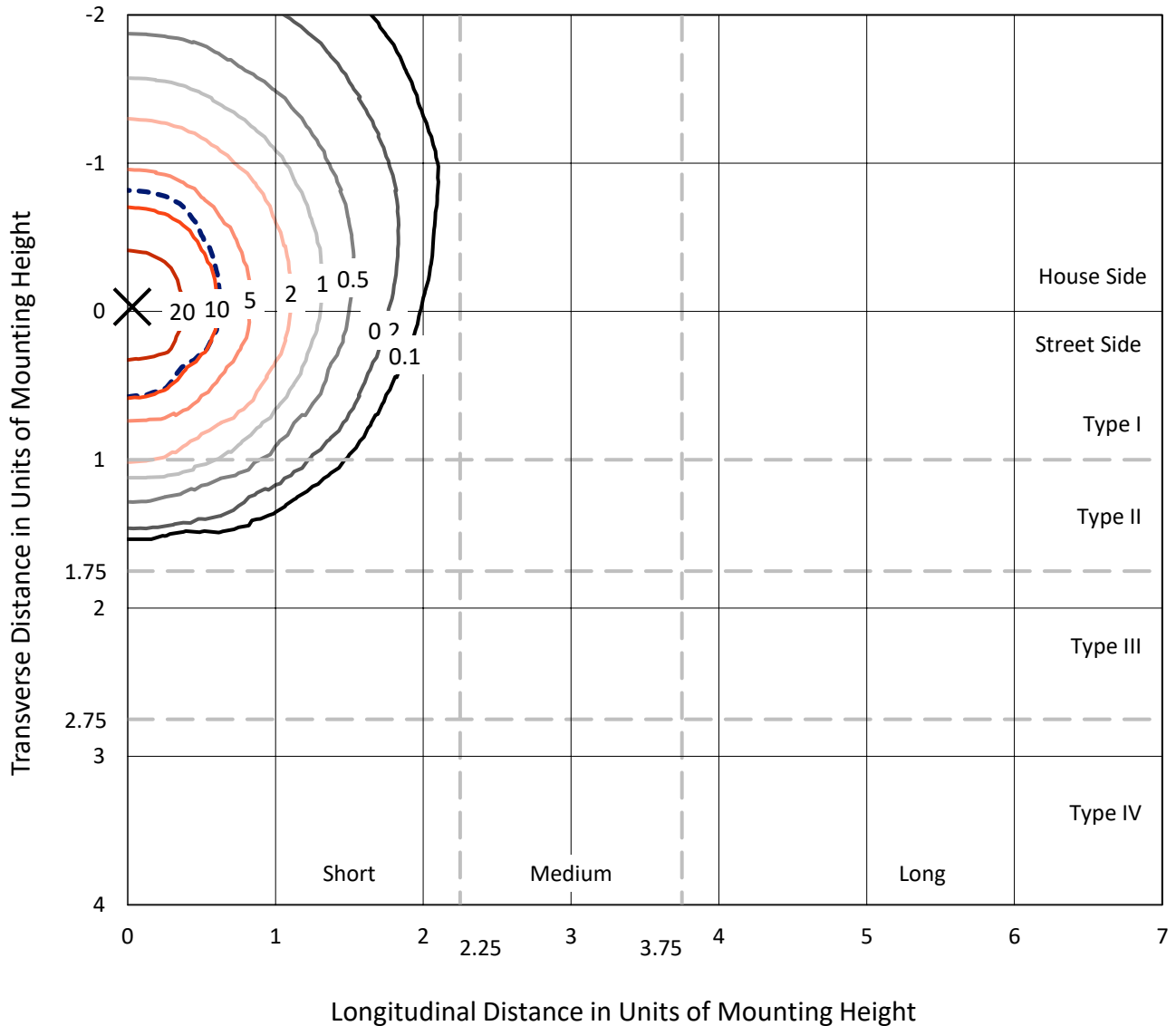
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

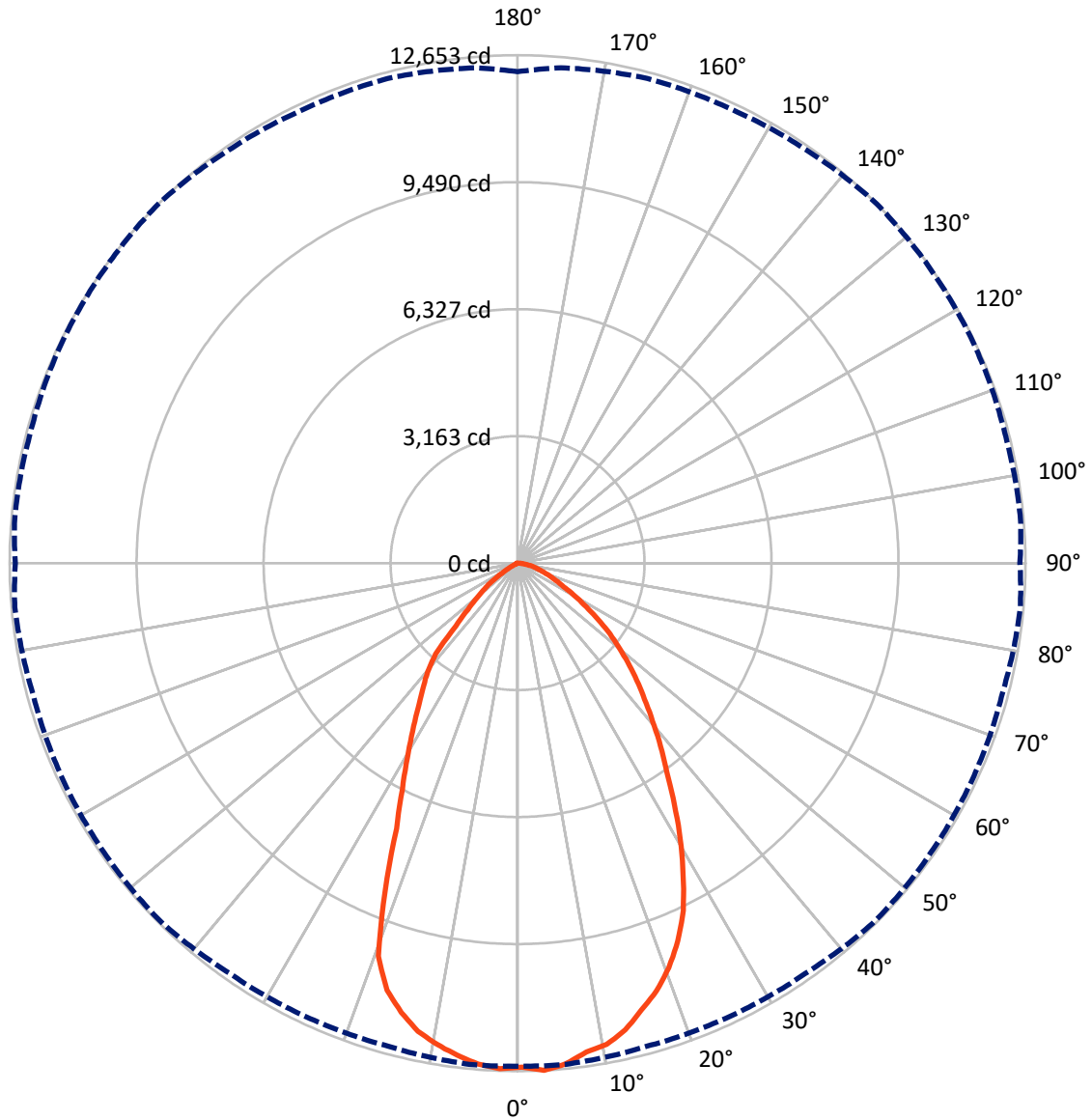
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.4 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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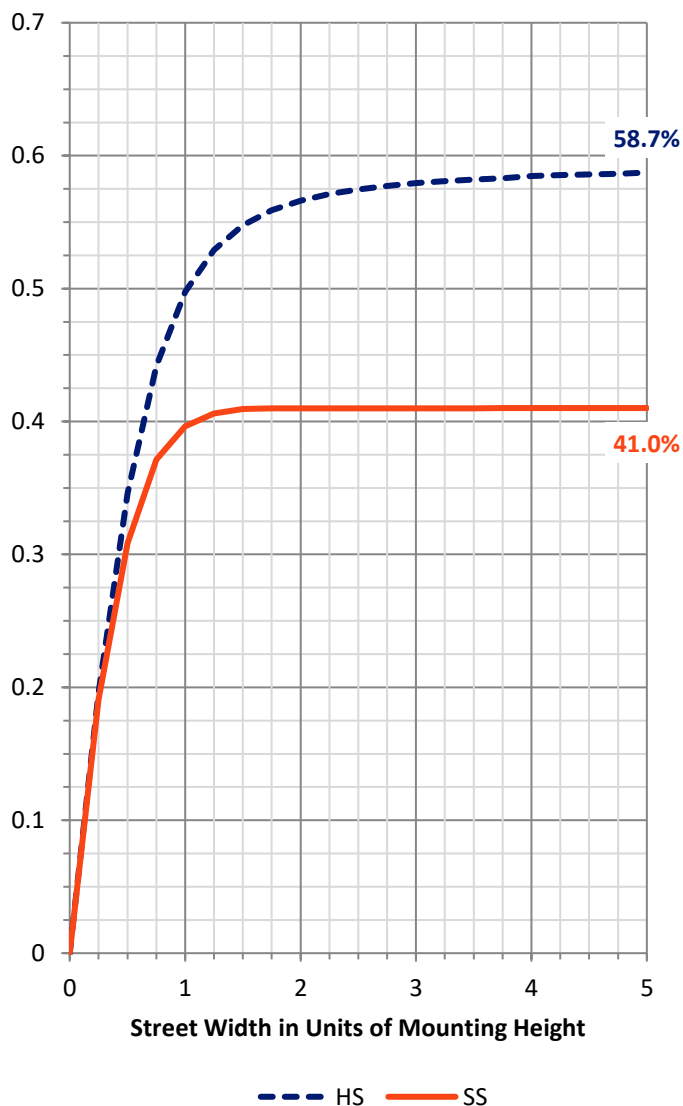
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9769.8	0.0	9769.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6726.3	0.0	6726.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	16496.1	0.0	16496.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1177.3	7.1
10°-20°	3157.0	19.1
20°-30°	3850.2	23.3
30°-40°	3515.2	21.3
40°-50°	2540.3	15.4
50°-60°	1387.1	8.4
60°-70°	573.5	3.5
70°-80°	232.3	1.4
80°-90°	63.2	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°	16496.1	100.0
0°-180°	16496.1	100.0



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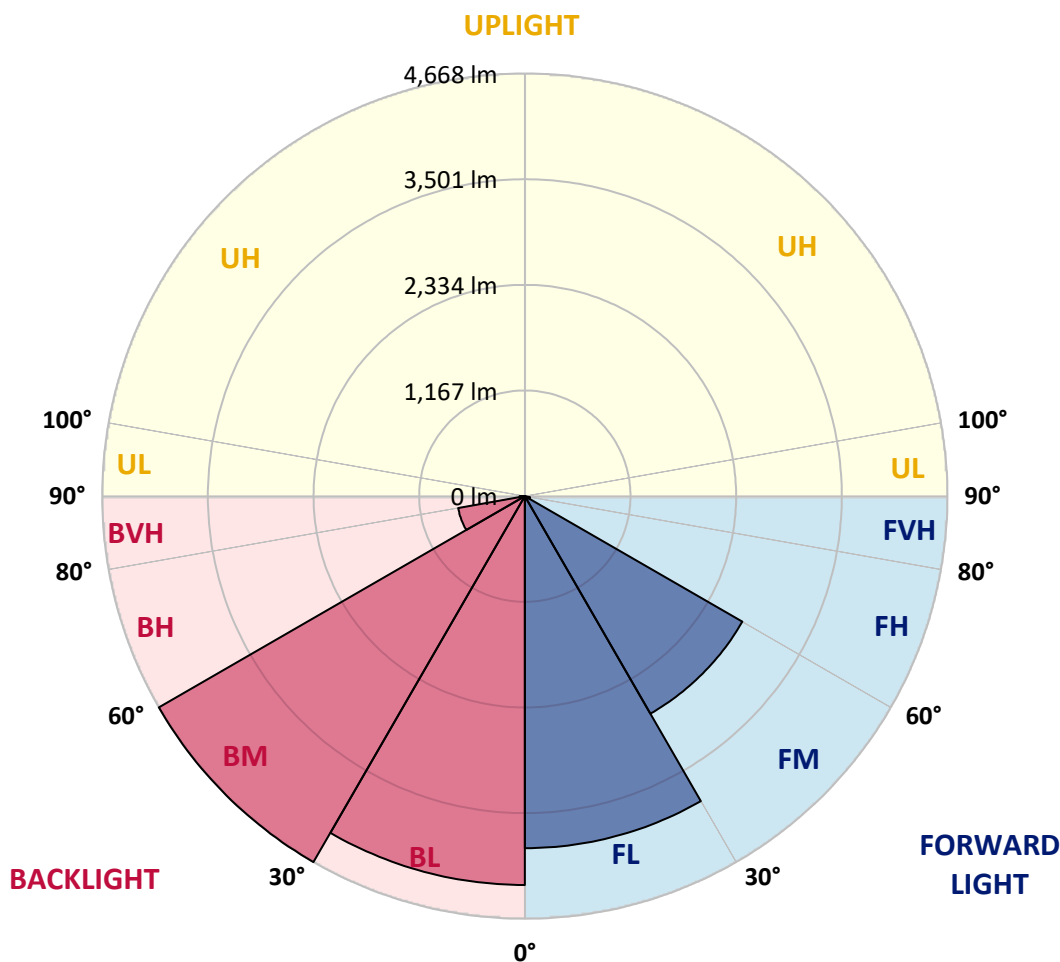
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3888.7	23.6			
FM (30°-60°)	2774.3	16.8			
FH (60°-80°)	58.1	0.4			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	4295.8	26.0	B4/5000		
BM (30°-60°)	4668.3	28.3	B3/5000		
BH (60°-80°)	747.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	58.1	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°	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5
2.5°	12530.2	12546.5	12458.2	12467.5	12483.8	12602.3	12572.1	12544.2	12504.7	12572.1
5°	12514.0	12523.3	12430.4	12397.8	12411.8	12518.6	12421.1	12421.1	12411.8	12400.2
7.5°	12388.5	12393.2	12321.2	12263.1	12300.3	12349.0	12277.0	12311.9	12260.8	12300.3
10°	12200.4	12170.2	12084.2	12068.0	12109.8	12156.2	12107.5	12140.0	12093.5	12123.7
12.5°	11923.9	11877.5	11807.8	11786.9	11858.9	11921.6	11882.1	11863.5	11803.1	11877.5
15°	10857.7	10822.8	10980.8	11257.2	11505.8	11559.2	11517.4	11536.0	11410.6	11431.5
17.5°	8936.6	8871.5	9041.1	9696.2	10630.0	11122.5	11085.3	10964.5	10778.7	10820.5
20°	8121.2	8102.6	8084.0	8239.7	8892.4	10386.1	10437.2	10130.6	9865.8	9807.7
22.5°	7661.2	7654.3	7635.7	7670.5	7842.4	8801.8	9387.2	9103.8	8927.3	8911.0
25°	7240.8	7229.2	7173.4	7217.5	7217.5	7273.3	8023.6	8195.5	8039.9	8021.3
27.5°	6813.3	6792.4	6783.1	6804.1	6697.2	6320.9	6511.4	7350.0	7268.7	7273.3
30°	6351.1	6344.1	6318.5	6362.7	6032.8	5565.9	5445.1	6583.4	6599.6	6595.0
32.5°	5663.5	5693.7	5809.8	5858.6	5315.0	4929.4	4727.3	5696.0	6028.2	6021.2
35°	4114.0	4114.0	4492.7	5196.5	4657.6	4367.2	4258.1	4829.5	5463.7	5486.9
37.5°	3382.3	3393.9	3468.2	3788.8	4018.8	3916.6	3884.0	4065.2	4738.9	4776.1
40°	3043.1	3043.1	3043.1	2910.7	2903.7	3528.6	3510.0	3452.0	4093.1	4174.4
42.5°	2734.2	2741.1	2745.8	2411.3	2225.4	3050.1	3008.3	2920.0	3514.7	3609.9
45°	2415.9	2427.5	2441.5	2016.4	1935.1	2195.2	2546.0	2448.4	2943.2	3066.4
47.5°	1475.1	1493.7	1809.6	1709.7	1719.0	1693.5	2076.8	2060.5	2413.6	2587.8
50°	996.6	1003.5	1033.7	1084.8	1475.1	1331.1	1470.5	1705.1	1832.8	2097.7
52.5°	836.3	847.9	773.6	703.9	968.7	1040.7	1026.8	1266.0	1317.1	1644.7
55°	587.7	624.9	590.0	583.1	550.6	808.4	778.2	973.3	1005.9	1249.8
57.5°	60.4	69.7	120.8	434.4	360.1	457.6	555.2	713.2	745.7	922.2
60°	4.6	4.6	11.6	60.4	262.5	274.1	383.3	439.0	501.8	643.5
62.5°	0.0	2.3	4.6	9.3	41.8	146.3	192.8	230.0	302.0	415.8
65°	0.0	0.0	2.3	7.0	9.3	55.8	74.3	120.8	164.9	257.9
67.5°	0.0	0.0	2.3	4.6	7.0	13.9	25.6	44.1	88.3	146.3
70°	0.0	0.0	2.3	4.6	7.0	11.6	18.6	27.9	39.5	79.0
72.5°	0.0	0.0	2.3	2.3	4.6	11.6	13.9	18.6	27.9	39.5
75°	0.0	0.0	2.3	2.3	7.0	13.9	11.6	13.9	18.6	25.6
77.5°	0.0	0.0	2.3	4.6	7.0	13.9	11.6	13.9	13.9	16.3
80°	0.0	0.0	2.3	4.6	9.3	16.3	13.9	13.9	11.6	11.6
82.5°	0.0	0.0	2.3	7.0	9.3	20.9	20.9	18.6	9.3	7.0
85°	0.0	0.0	4.6	9.3	13.9	23.2	23.2	18.6	7.0	4.6
87.5°	0.0	0.0	4.6	7.0	11.6	16.3	23.2	18.6	7.0	2.3
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°
12553.5	0°	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5	12553.5
12514.0	2.5°	12576.7	12562.8	12609.2	12627.8	12653.4	12555.8	12495.4	12497.7	12386.2
12372.3	5°	12446.6	12448.9	12509.3	12504.7	12530.2	12476.8	12453.6	12414.1	12316.5
12193.4	7.5°	12281.7	12260.8	12318.8	12363.0	12297.9	12335.1	12281.7	12300.3	12242.2
12035.4	10°	12153.9	12105.1	12158.6	12188.8	12191.1	12153.9	12102.8	12054.0	12033.1
11789.2	12.5°	11870.5	11807.8	11898.4	11940.2	11933.2	11861.2	11803.1	11814.8	11747.4
11357.1	15°	11480.2	11482.6	11547.6	11587.1	11549.9	11533.7	11538.3	11510.4	11452.4
10760.1	17.5°	10883.2	10918.1	11090.0	11185.2	11206.1	11173.6	11157.3	11124.8	11066.8
9807.7	20°	9889.0	10098.1	10404.7	10699.7	10757.8	10748.5	10690.4	10676.5	10644.0
8864.6	22.5°	9015.5	9171.2	9526.6	9986.6	10223.5	10246.7	10177.0	10156.1	10121.3
8021.3	25°	8111.9	8279.2	8599.7	9099.2	9589.3	9689.2	9677.6	9614.9	9577.7
7273.3	27.5°	7350.0	7517.2	7807.6	8258.3	8783.2	9103.8	9134.0	9034.1	9031.8
6606.6	30°	6662.4	6892.3	7113.0	7480.0	7988.8	8469.6	8520.7	8451.1	8458.0
5995.7	32.5°	6123.4	6313.9	6502.1	6748.3	7171.1	7730.9	7930.7	7865.7	7840.1
5486.9	35°	5572.9	5703.0	5895.8	6121.1	6409.1	6964.3	7310.5	7261.7	7236.1
4799.3	37.5°	4945.7	5168.7	5308.0	5561.3	5786.6	6228.0	6715.8	6708.8	6655.4
4213.9	40°	4302.2	4536.8	4748.2	5003.7	5178.0	5528.7	6070.0	6067.7	6074.6
3607.6	42.5°	3719.1	3935.2	4190.7	4469.4	4636.7	4892.2	5473.0	5505.5	5545.0
3108.2	45°	3191.8	3386.9	3623.9	3963.0	4165.1	4311.5	4827.2	4975.9	4973.5
2662.2	47.5°	2717.9	2901.4	3101.2	3431.1	3688.9	3821.3	4248.8	4460.2	4446.2
2183.6	50°	2281.2	2443.8	2652.9	2892.1	3238.3	3354.4	3672.7	3951.4	3930.5
1739.9	52.5°	1835.2	2060.5	2237.0	2455.4	2820.1	2933.9	3180.2	3452.0	3435.7
1305.5	55°	1431.0	1649.3	1863.0	2051.2	2357.8	2527.4	2704.0	2982.7	2978.1
1022.1	57.5°	1082.5	1321.8	1523.9	1702.8	1946.7	2155.7	2297.4	2550.6	2583.2
699.2	60°	801.4	985.0	1203.3	1403.1	1595.9	1811.9	1907.2	2155.7	2169.7
478.5	62.5°	545.9	748.0	961.7	1142.9	1286.9	1509.9	1595.9	1800.3	1825.9
306.6	65°	378.6	508.7	752.7	882.7	1059.3	1249.8	1335.7	1498.3	1549.4
176.5	67.5°	250.9	362.4	587.7	706.2	880.4	1010.5	1119.7	1252.1	1307.8
111.5	70°	137.1	267.1	420.5	557.5	708.5	834.0	940.8	1047.7	1096.5
51.1	72.5°	92.9	178.9	292.7	441.4	571.5	694.6	789.8	868.8	871.1
30.2	75°	46.5	120.8	223.0	341.5	446.0	566.8	652.8	699.2	643.5
18.6	77.5°	27.9	88.3	181.2	274.1	362.4	457.6	506.4	532.0	441.4
13.9	80°	16.3	62.7	141.7	218.4	250.9	336.8	383.3	390.3	295.0
9.3	82.5°	11.6	46.5	111.5	160.3	153.3	236.9	288.1	278.8	188.2
7.0	85°	7.0	32.5	69.7	99.9	92.9	155.6	167.3	171.9	109.2
4.6	87.5°	4.6	18.6	37.2	53.4	44.1	67.4	67.4	81.3	53.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12553.5
12242.2
12293.3
12144.6
11940.2
11689.3
11394.3
11041.2
10569.6
10112.0
9538.2
9027.2
8423.2
7842.4
7201.3
6699.5
6074.6
5524.1
4978.2
4450.9
3949.1
3470.6
2989.7
2569.2
2190.6
1830.5
1537.8
1300.9
1077.9
850.2
601.7
425.1
276.4
174.2
99.9
46.5
0.0

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