

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: P638110

Luminaire Tested: **IFLD-S-SA6A-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638110
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18904.3 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

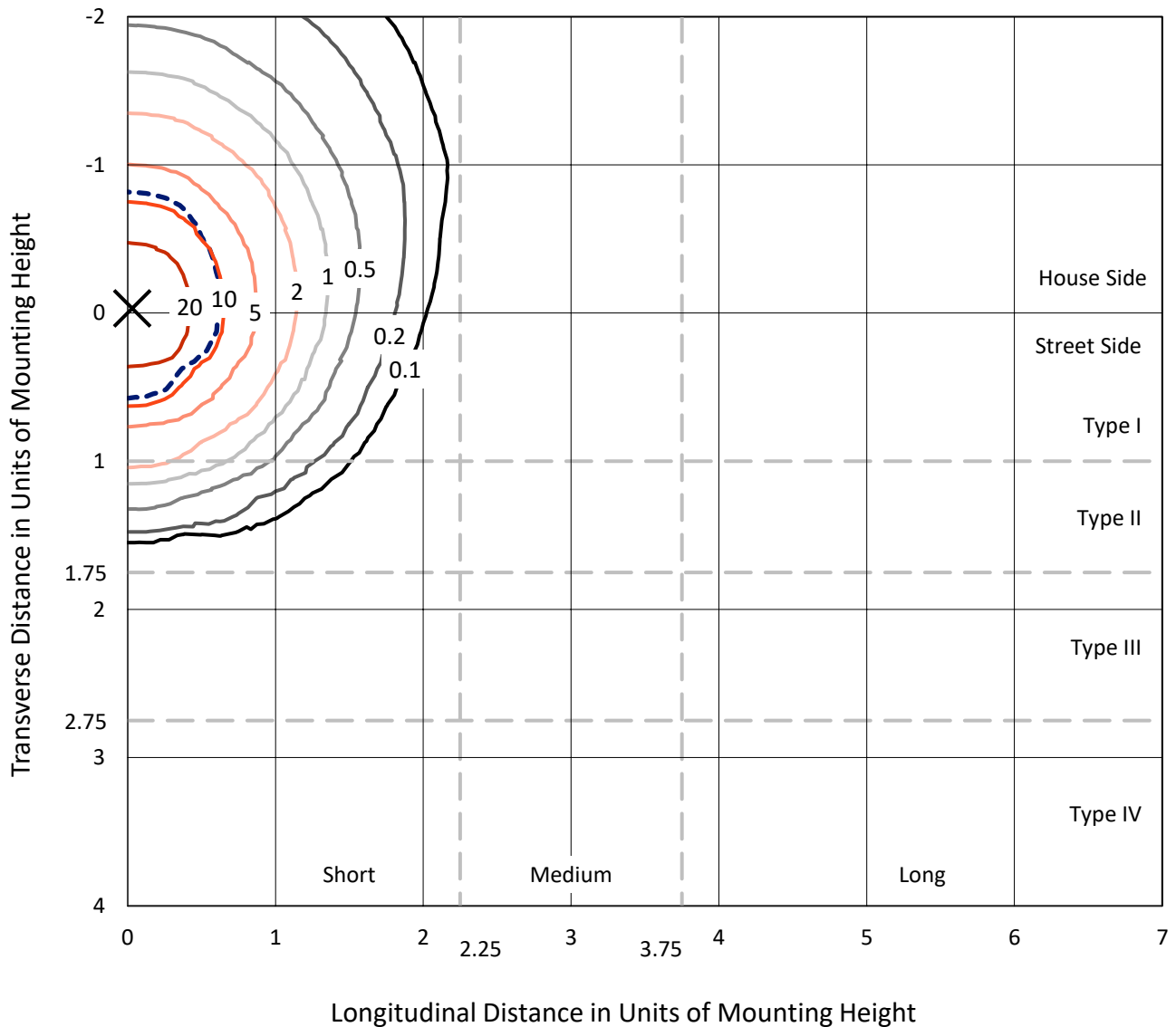
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

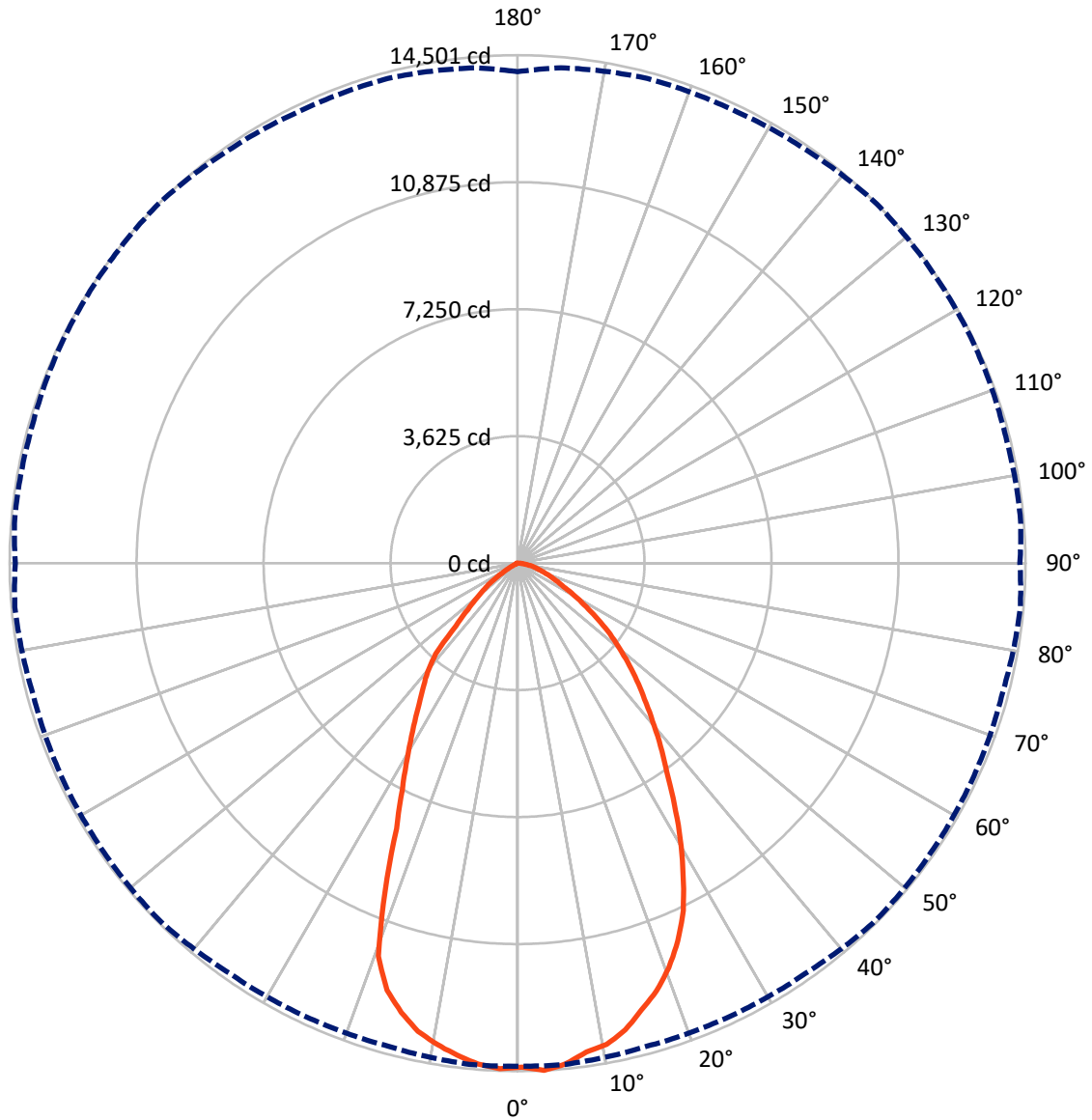
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36 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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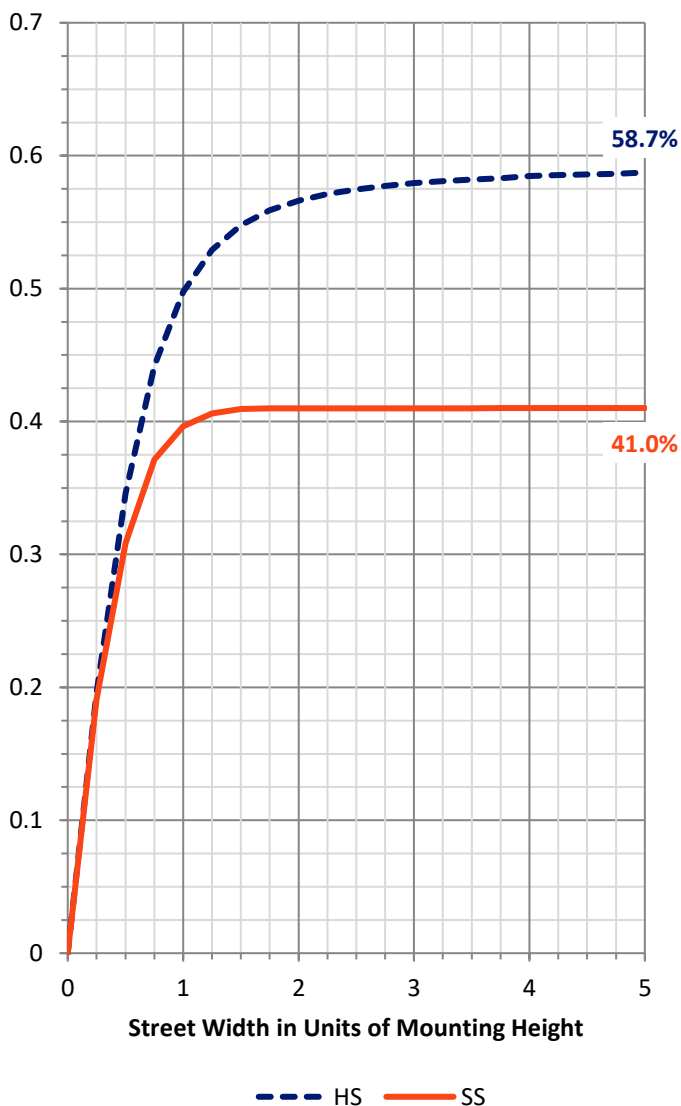
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11196.1	0.0	11196.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7708.2	0.0	7708.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	18904.3	0.0	18904.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1349.2	7.1
10°-20°	3617.9	19.1
20°-30°	4412.3	23.3
30°-40°	4028.4	21.3
40°-50°	2911.2	15.4
50°-60°	1589.5	8.4
60°-70°	657.2	3.5
70°-80°	266.2	1.4
80°-90°	72.4	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°	18904.3	100.0
0°-180°	18904.3	100.0



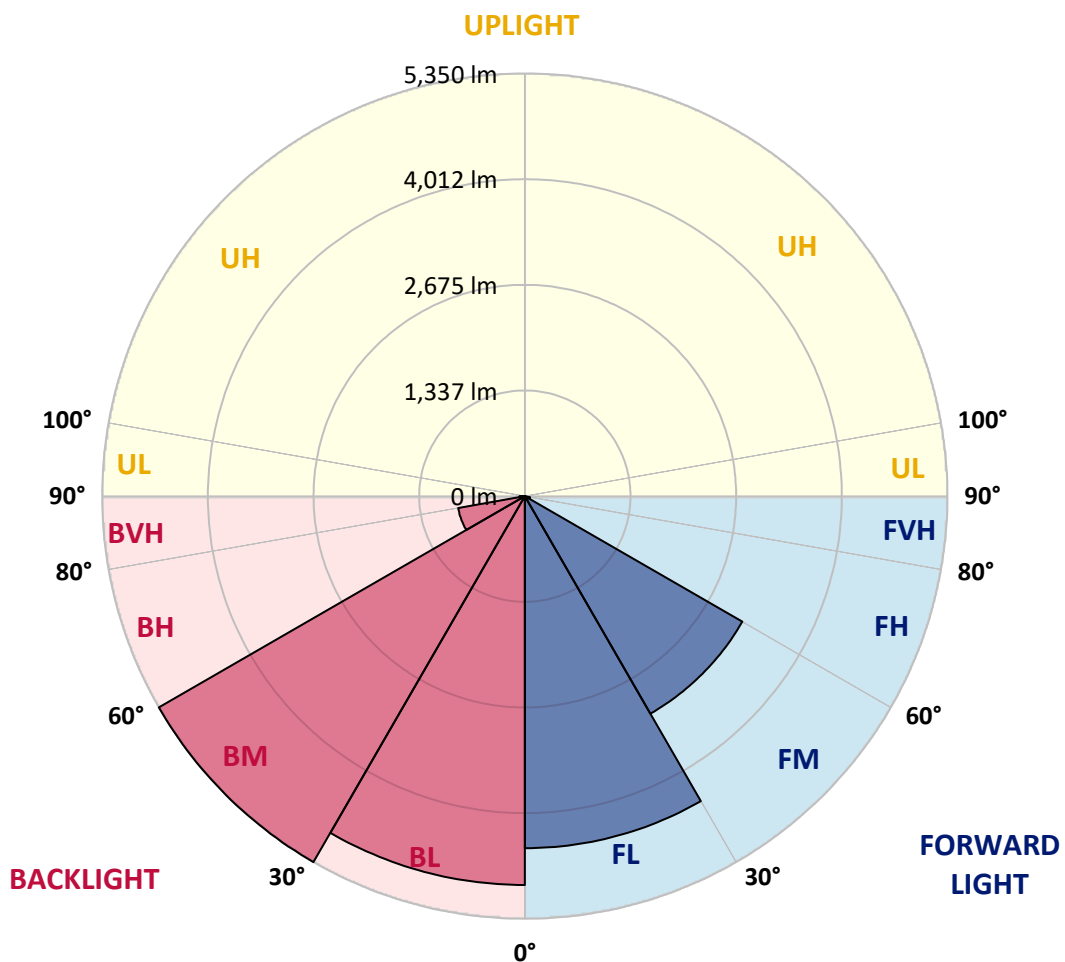
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4456.4	23.6			
FM (30°-60°)	3179.3	16.8			
FH (60°-80°)	66.6	0.4			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	4922.9	26.0	B4/5000		
BM (30°-60°)	5349.7	28.3	B4/8500		
BH (60°-80°)	856.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	66.6	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°	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1
2.5°	14359.5	14378.1	14276.9	14287.6	14306.2	14442.0	14407.4	14375.4	14330.2	14407.4
5°	14340.8	14351.5	14245.0	14207.7	14223.7	14346.2	14234.4	14234.4	14223.7	14210.4
7.5°	14197.1	14202.4	14119.9	14053.3	14095.9	14151.8	14069.3	14109.2	14050.7	14095.9
10°	13981.5	13946.8	13848.3	13829.7	13877.6	13930.9	13875.0	13912.2	13859.0	13893.6
12.5°	13664.7	13611.4	13531.6	13507.6	13590.1	13662.0	13616.7	13595.4	13526.2	13611.4
15°	12442.7	12402.8	12583.8	12900.6	13185.5	13246.7	13198.8	13220.1	13076.3	13100.3
17.5°	10241.2	10166.6	10361.0	11111.7	12181.9	12746.2	12703.6	12565.2	12352.2	12400.2
20°	9306.8	9285.5	9264.2	9442.5	10190.6	11902.3	11960.9	11609.5	11306.0	11239.5
22.5°	8779.7	8771.7	8750.4	8790.3	8987.3	10086.8	10757.6	10432.8	10230.5	10211.9
25°	8297.8	8284.5	8220.6	8271.2	8271.2	8335.1	9195.0	9392.0	9213.6	9192.3
27.5°	7808.0	7784.0	7773.4	7797.3	7674.9	7243.6	7461.9	8422.9	8329.8	8335.1
30°	7278.2	7270.2	7241.0	7291.5	6913.5	6378.4	6240.0	7544.4	7563.1	7557.8
32.5°	6490.2	6524.9	6658.0	6713.9	6090.9	5649.0	5417.4	6527.5	6908.2	6900.2
35°	4714.6	4714.6	5148.5	5955.2	5337.5	5004.8	4879.7	5534.5	6261.3	6287.9
37.5°	3876.0	3889.4	3974.5	4341.9	4605.5	4488.3	4451.1	4658.7	5430.7	5473.3
40°	3487.4	3487.4	3487.4	3335.6	3327.6	4043.8	4022.5	3955.9	4690.7	4783.8
42.5°	3133.3	3141.3	3146.6	2763.3	2550.3	3495.4	3447.4	3346.3	4027.8	4136.9
45°	2768.6	2781.9	2797.9	2310.7	2217.5	2515.7	2917.7	2805.9	3372.9	3514.0
47.5°	1690.4	1711.7	2073.8	1959.3	1970.0	1940.7	2379.9	2361.3	2765.9	2965.6
50°	1142.0	1150.0	1184.6	1243.2	1690.4	1525.4	1685.1	1954.0	2100.4	2403.9
52.5°	958.4	971.7	886.5	806.6	1110.1	1192.6	1176.7	1450.9	1509.4	1884.8
55°	673.5	716.1	676.2	668.2	630.9	926.4	891.8	1115.4	1152.7	1432.2
57.5°	69.2	79.9	138.4	497.8	412.6	524.4	636.2	817.3	854.5	1056.9
60°	5.3	5.3	13.3	69.2	300.8	314.1	439.2	503.1	575.0	737.4
62.5°	0.0	2.7	5.3	10.6	47.9	167.7	221.0	263.5	346.1	476.5
65°	0.0	0.0	2.7	8.0	10.6	63.9	85.2	138.4	189.0	295.5
67.5°	0.0	0.0	2.7	5.3	8.0	16.0	29.3	50.6	101.2	167.7
70°	0.0	0.0	2.7	5.3	8.0	13.3	21.3	31.9	45.3	90.5
72.5°	0.0	0.0	2.7	2.7	5.3	13.3	16.0	21.3	31.9	45.3
75°	0.0	0.0	2.7	2.7	8.0	16.0	13.3	16.0	21.3	29.3
77.5°	0.0	0.0	2.7	5.3	8.0	16.0	13.3	16.0	16.0	18.6
80°	0.0	0.0	2.7	5.3	10.6	18.6	16.0	16.0	13.3	13.3
82.5°	0.0	0.0	2.7	8.0	10.6	24.0	24.0	21.3	10.6	8.0
85°	0.0	0.0	5.3	10.6	16.0	26.6	26.6	21.3	8.0	5.3
87.5°	0.0	0.0	5.3	8.0	13.3	18.6	26.6	21.3	8.0	2.7
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°
14386.1	0°	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1	14386.1
14340.8	2.5°	14412.7	14396.7	14450.0	14471.3	14500.6	14388.8	14319.5	14322.2	14194.4
14178.4	5°	14263.6	14266.3	14335.5	14330.2	14359.5	14298.2	14271.6	14226.4	14114.6
13973.5	7.5°	14074.6	14050.7	14117.2	14167.8	14093.3	14135.9	14074.6	14095.9	14029.4
13792.4	10°	13928.2	13872.3	13933.5	13968.1	13970.8	13928.2	13869.6	13813.7	13789.8
13510.3	12.5°	13603.4	13531.6	13635.4	13683.3	13675.3	13592.8	13526.2	13539.5	13462.3
13015.1	15°	13156.2	13158.9	13233.4	13278.7	13236.1	13217.4	13222.7	13190.8	13124.2
12330.9	17.5°	12472.0	12512.0	12709.0	12818.1	12842.1	12804.8	12786.2	12748.9	12682.3
11239.5	20°	11332.6	11572.2	11923.6	12261.7	12328.3	12317.6	12251.1	12235.1	12197.8
10158.6	22.5°	10331.7	10510.0	10917.4	11444.5	11716.0	11742.6	11662.7	11638.8	11598.9
9192.3	25°	9296.1	9487.8	9855.2	10427.5	10989.2	11103.7	11090.4	11018.5	10975.9
8335.1	27.5°	8422.9	8614.6	8947.4	9463.8	10065.5	10432.8	10467.5	10353.0	10350.3
7571.1	30°	7635.0	7898.5	8151.4	8572.0	9155.0	9706.1	9764.7	9684.8	9692.8
6870.9	32.5°	7017.3	7235.6	7451.3	7733.5	8218.0	8859.5	9088.5	9013.9	8984.7
6287.9	35°	6386.4	6535.5	6756.5	7014.7	7344.8	7981.0	8377.7	8321.8	8292.5
5499.9	37.5°	5667.7	5923.2	6082.9	6373.1	6631.3	7137.1	7696.2	7688.2	7627.0
4829.1	40°	4930.2	5199.1	5441.4	5734.2	5933.9	6335.8	6956.1	6953.5	6961.4
4134.3	42.5°	4262.1	4509.6	4802.5	5121.9	5313.6	5606.4	6272.0	6309.2	6354.5
3561.9	45°	3657.8	3881.4	4152.9	4541.6	4773.2	4940.9	5531.9	5702.3	5699.6
3050.8	47.5°	3114.7	3325.0	3553.9	3932.0	4227.4	4379.2	4869.0	5111.3	5095.3
2502.4	50°	2614.2	2800.5	3040.1	3314.3	3711.0	3844.1	4208.8	4528.3	4504.3
1993.9	52.5°	2103.1	2361.3	2563.6	2813.9	3231.8	3362.3	3644.4	3955.9	3937.3
1496.1	55°	1639.9	1890.1	2135.0	2350.7	2702.1	2896.4	3098.7	3418.2	3412.8
1171.3	57.5°	1240.5	1514.7	1746.4	1951.3	2230.9	2470.4	2632.8	2923.0	2960.3
801.3	60°	918.4	1128.7	1379.0	1607.9	1828.9	2076.5	2185.6	2470.4	2486.4
548.4	62.5°	625.6	857.2	1102.1	1309.8	1474.8	1730.4	1828.9	2063.1	2092.4
351.4	65°	433.9	583.0	862.5	1011.6	1213.9	1432.2	1530.7	1717.1	1775.6
202.3	67.5°	287.5	415.3	673.5	809.3	1008.9	1158.0	1283.1	1434.9	1498.8
127.8	70°	157.1	306.1	481.8	638.9	811.9	955.7	1078.2	1200.6	1256.5
58.6	72.5°	106.5	205.0	335.4	505.8	654.9	796.0	905.1	995.6	998.3
34.6	75°	53.2	138.4	255.6	391.3	511.1	649.6	748.1	801.3	737.4
21.3	77.5°	31.9	101.2	207.6	314.1	415.3	524.4	580.3	609.6	505.8
16.0	80°	18.6	71.9	162.4	250.2	287.5	386.0	439.2	447.2	338.1
10.6	82.5°	13.3	53.2	127.8	183.7	175.7	271.5	330.1	319.5	215.6
8.0	85°	8.0	37.3	79.9	114.5	106.5	178.4	191.7	197.0	125.1
5.3	87.5°	5.3	21.3	42.6	61.2	50.6	77.2	77.2	93.2	61.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14386.1
14029.4
14087.9
13917.6
13683.3
13395.8
13057.7
12653.1
12112.6
11588.2
10930.7
10345.0
9652.8
8987.3
8252.6
7677.6
6961.4
6330.5
5704.9
5100.6
4525.6
3977.2
3426.1
2944.3
2510.4
2097.8
1762.3
1490.8
1235.2
974.3
689.5
487.2
316.8
199.7
114.5
53.2
0.0

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