

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: P638067

Luminaire Tested: **IFLD-L-SA8A-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638067
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19409 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

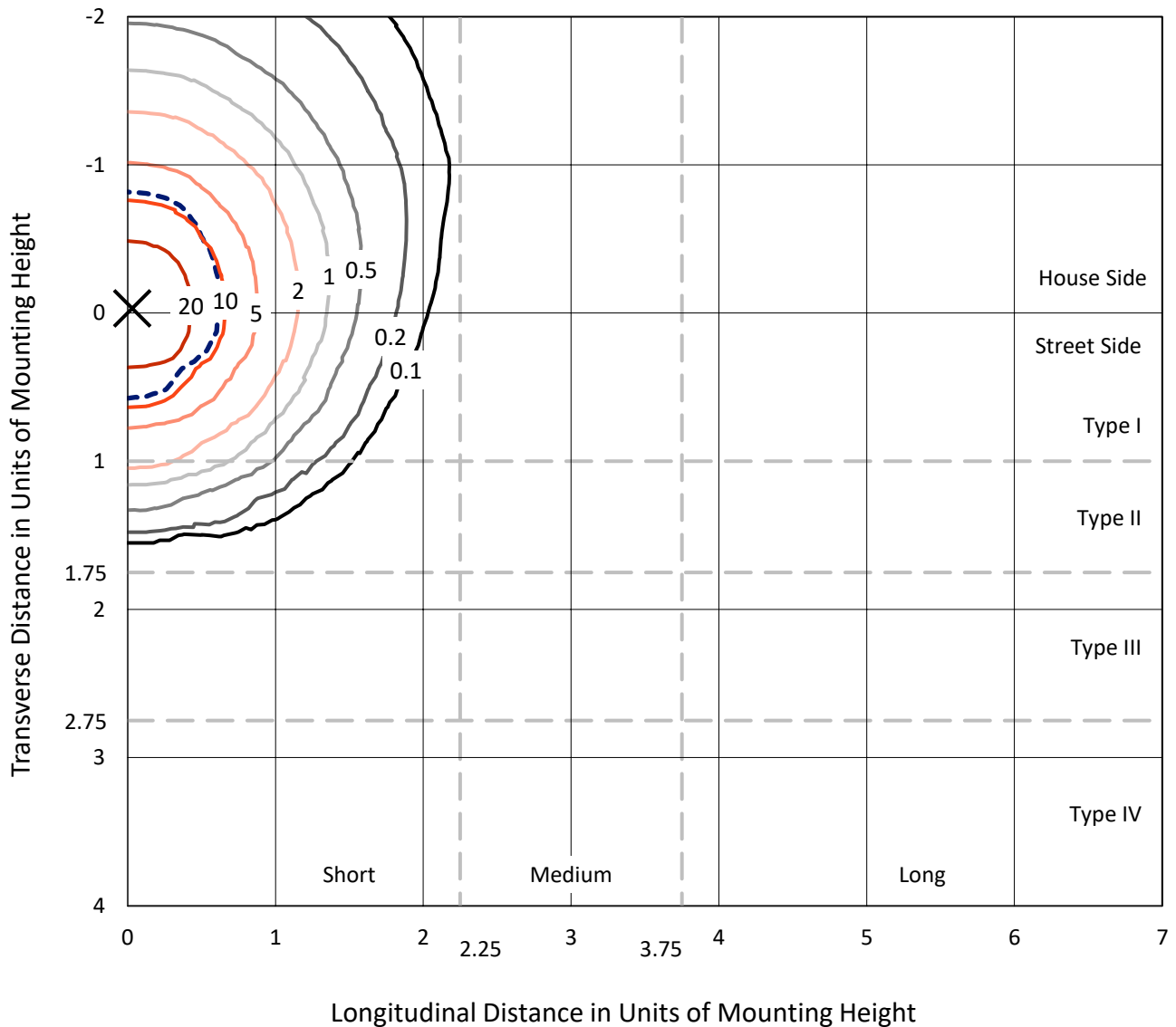
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

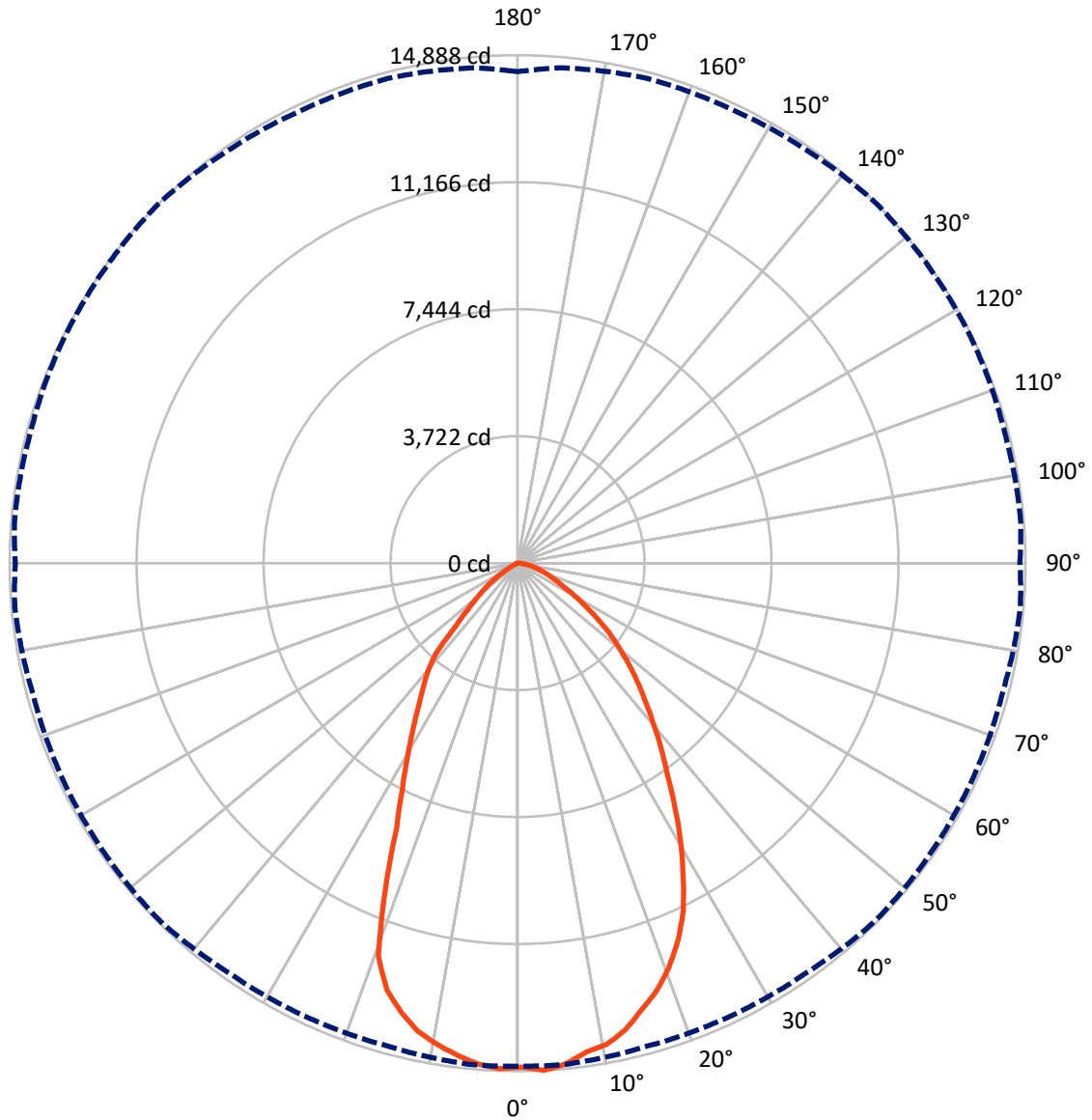
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.9 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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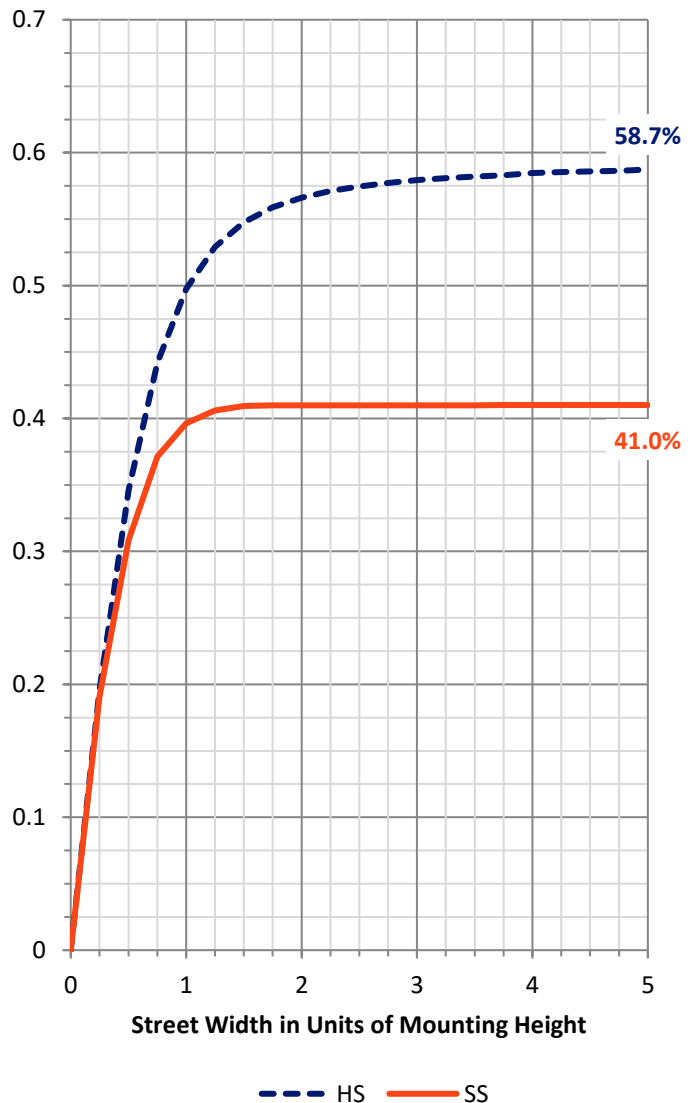
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11495.0	0.0	11495.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7914.0	0.0	7914.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	19409.0	0.0	19409.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1385.2	7.1
10°-20°	3714.5	19.1
20°-30°	4530.1	23.3
30°-40°	4135.9	21.3
40°-50°	2988.9	15.4
50°-60°	1632.0	8.4
60°-70°	674.8	3.5
70°-80°	273.3	1.4
80°-90°	74.3	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°	19409.0	100.0
0°-180°	19409.0	100.0



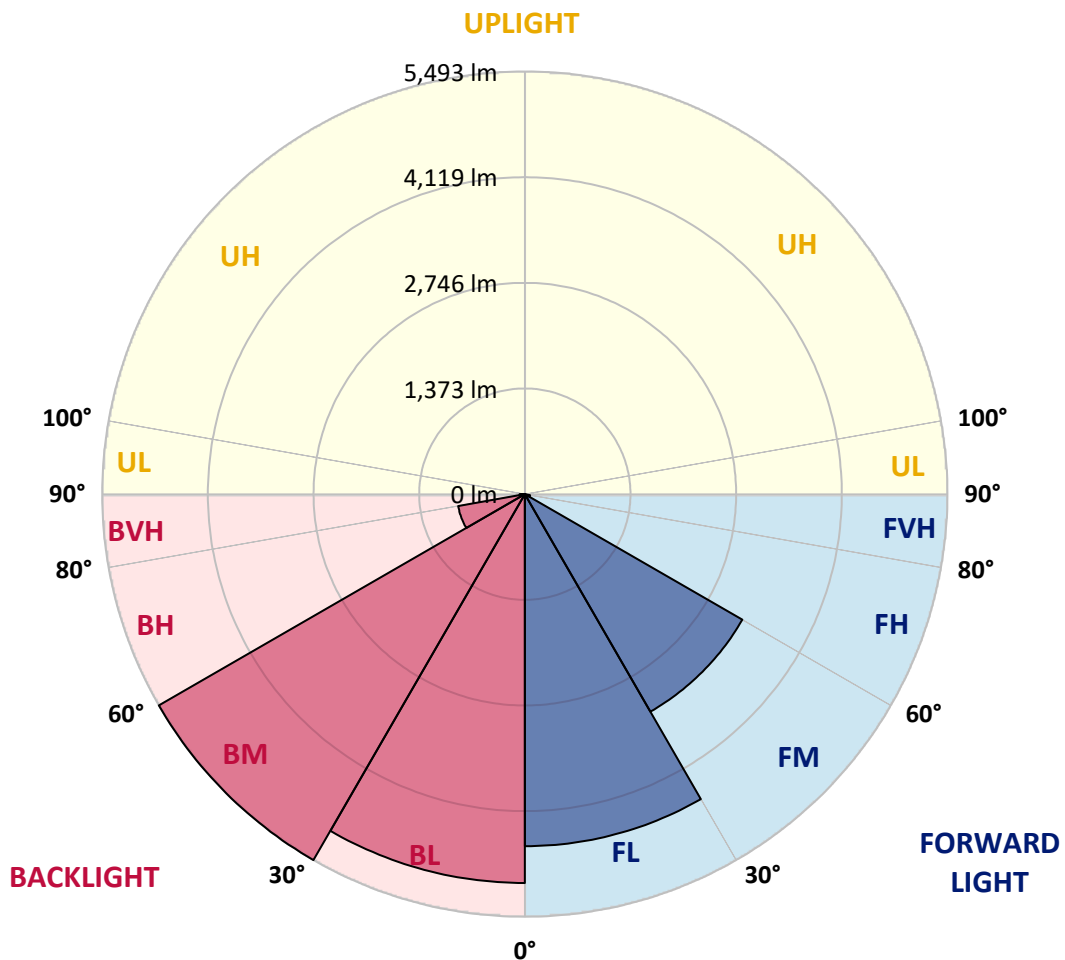
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4575.4	23.6			
FM (30°-60°)	3264.2	16.8			
FH (60°-80°)	68.4	0.4			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	5054.4	26.0	B5		
BM (30°-60°)	5492.6	28.3	B4/8500		
BH (60°-80°)	879.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	68.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1
2.5°	14742.8	14761.9	14658.1	14669.0	14688.1	14827.5	14792.0	14759.2	14712.7	14792.0
5°	14723.7	14734.6	14625.3	14587.0	14603.4	14729.1	14614.4	14614.4	14603.4	14589.8
7.5°	14576.1	14581.6	14496.8	14428.5	14472.2	14529.6	14444.9	14485.9	14425.8	14472.2
10°	14354.7	14319.2	14218.0	14198.9	14248.1	14302.8	14245.4	14283.6	14229.0	14264.5
12.5°	14029.4	13974.8	13892.8	13868.2	13952.9	14026.7	13980.3	13958.4	13887.3	13974.8
15°	12774.9	12733.9	12919.8	13245.0	13537.5	13600.3	13551.1	13573.0	13425.4	13450.0
17.5°	10514.6	10438.0	10637.6	11408.3	12507.1	13086.5	13042.8	12900.6	12682.0	12731.2
20°	9555.2	9533.4	9511.5	9694.6	10462.6	12220.1	12280.2	11919.4	11607.8	11539.5
22.5°	9014.1	9005.9	8984.0	9025.0	9227.2	10356.0	11044.8	10711.4	10503.6	10484.5
25°	8519.3	8505.7	8440.1	8492.0	8492.0	8557.6	9440.4	9642.7	9459.6	9437.7
27.5°	8016.4	7991.8	7980.9	8005.5	7879.8	7437.0	7661.1	8647.8	8552.1	8557.6
30°	7472.5	7464.3	7434.3	7486.2	7098.1	6548.7	6406.6	7745.9	7765.0	7759.5
32.5°	6663.5	6699.0	6835.7	6893.1	6253.5	5799.8	5562.0	6701.8	7092.6	7084.4
35°	4840.5	4840.5	5286.0	6114.1	5480.0	5138.4	5009.9	5682.3	6428.5	6455.8
37.5°	3979.5	3993.2	4080.6	4457.8	4728.4	4608.2	4569.9	4783.1	5575.7	5619.4
40°	3580.5	3580.5	3580.5	3424.7	3416.5	4151.7	4129.8	4061.5	4815.9	4911.5
42.5°	3217.0	3225.2	3230.6	2837.0	2618.4	3588.7	3539.5	3435.6	4135.3	4247.4
45°	2842.5	2856.2	2872.6	2372.4	2276.7	2582.9	2995.6	2880.8	3462.9	3607.8
47.5°	1735.6	1757.4	2129.2	2011.6	2022.6	1992.5	2443.5	2424.3	2839.8	3044.8
50°	1172.5	1180.7	1216.3	1276.4	1735.6	1566.1	1730.1	2006.2	2156.5	2468.1
52.5°	983.9	997.6	910.2	828.2	1139.7	1224.5	1208.1	1489.6	1549.7	1935.1
55°	691.5	735.2	694.2	686.0	647.8	951.1	915.6	1145.2	1183.5	1470.5
57.5°	71.1	82.0	142.1	511.1	423.6	538.4	653.2	839.1	877.4	1085.1
60°	5.5	5.5	13.7	71.1	308.9	322.5	451.0	516.6	590.4	757.1
62.5°	0.0	2.7	5.5	10.9	49.2	172.2	226.9	270.6	355.3	489.2
65°	0.0	0.0	2.7	8.2	10.9	65.6	87.5	142.1	194.1	303.4
67.5°	0.0	0.0	2.7	5.5	8.2	16.4	30.1	51.9	103.9	172.2
70°	0.0	0.0	2.7	5.5	8.2	13.7	21.9	32.8	46.5	92.9
72.5°	0.0	0.0	2.7	2.7	5.5	13.7	16.4	21.9	32.8	46.5
75°	0.0	0.0	2.7	2.7	8.2	16.4	13.7	16.4	21.9	30.1
77.5°	0.0	0.0	2.7	5.5	8.2	16.4	13.7	16.4	16.4	19.1
80°	0.0	0.0	2.7	5.5	10.9	19.1	16.4	16.4	13.7	13.7
82.5°	0.0	0.0	2.7	8.2	10.9	24.6	24.6	21.9	10.9	8.2
85°	0.0	0.0	5.5	10.9	16.4	27.3	27.3	21.9	8.2	5.5
87.5°	0.0	0.0	5.5	8.2	13.7	19.1	27.3	21.9	8.2	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°
14770.1	0°	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1	14770.1
14723.7	2.5°	14797.5	14781.1	14835.7	14857.6	14887.7	14772.9	14701.8	14704.5	14573.4
14557.0	5°	14644.4	14647.1	14718.2	14712.7	14742.8	14679.9	14652.6	14606.2	14491.4
14346.5	7.5°	14450.4	14425.8	14494.1	14546.0	14469.5	14513.2	14450.4	14472.2	14403.9
14160.6	10°	14300.0	14242.6	14305.5	14341.0	14343.8	14300.0	14239.9	14182.5	14157.9
13870.9	12.5°	13966.6	13892.8	13999.4	14048.6	14040.4	13955.7	13887.3	13901.0	13821.7
13362.6	15°	13507.4	13510.1	13586.7	13633.1	13589.4	13570.3	13575.7	13542.9	13474.6
12660.1	17.5°	12805.0	12846.0	13048.2	13160.3	13184.9	13146.6	13127.5	13089.2	13020.9
11539.5	20°	11635.2	11881.2	12241.9	12589.1	12657.4	12646.5	12578.1	12561.7	12523.5
10429.8	22.5°	10607.5	10790.6	11208.8	11750.0	12028.8	12056.1	11974.1	11949.5	11908.5
9437.7	25°	9544.3	9741.1	10118.3	10705.9	11282.6	11400.1	11386.5	11312.7	11268.9
8557.6	27.5°	8647.8	8844.6	9186.2	9716.5	10334.2	10711.4	10746.9	10629.4	10626.6
7773.2	30°	7838.8	8109.4	8369.0	8800.9	9399.4	9965.2	10025.3	9943.3	9951.5
7054.4	32.5°	7204.7	7428.8	7650.2	7939.9	8437.3	9096.0	9331.1	9254.6	9224.5
6455.8	35°	6556.9	6710.0	6936.8	7201.9	7540.9	8194.1	8601.3	8543.9	8513.9
5646.8	37.5°	5819.0	6081.3	6245.3	6543.2	6808.4	7327.7	7901.6	7893.4	7830.6
4958.0	40°	5061.9	5337.9	5586.6	5887.3	6092.3	6505.0	7141.8	7139.1	7147.3
4244.6	42.5°	4375.8	4630.0	4930.7	5258.7	5455.4	5756.1	6439.4	6477.7	6524.1
3657.0	45°	3755.4	3985.0	4263.8	4662.8	4900.6	5072.8	5679.6	5854.5	5851.8
3132.2	47.5°	3197.8	3413.8	3648.8	4036.9	4340.3	4496.1	4999.0	5247.7	5231.3
2569.2	50°	2684.0	2875.3	3121.3	3402.8	3810.1	3946.7	4321.2	4649.2	4624.6
2047.2	52.5°	2159.2	2424.3	2632.1	2889.0	3318.1	3452.0	3741.7	4061.5	4042.4
1536.1	55°	1683.6	1940.6	2192.0	2413.4	2774.2	2973.7	3181.4	3509.4	3503.9
1202.6	57.5°	1273.7	1555.2	1793.0	2003.4	2290.4	2536.4	2703.1	3001.0	3039.3
822.7	60°	942.9	1158.9	1415.8	1650.8	1877.7	2131.9	2243.9	2536.4	2552.8
563.0	62.5°	642.3	880.1	1131.5	1344.7	1514.2	1776.6	1877.7	2118.2	2148.3
360.8	65°	445.5	598.6	885.6	1038.6	1246.3	1470.5	1571.6	1762.9	1823.0
207.7	67.5°	295.2	426.4	691.5	830.9	1035.9	1188.9	1317.4	1473.2	1538.8
131.2	70°	161.3	314.3	494.7	656.0	833.6	981.2	1106.9	1232.7	1290.1
60.1	72.5°	109.3	210.5	344.4	519.3	672.4	817.2	929.3	1022.2	1024.9
35.5	75°	54.7	142.1	262.4	401.8	524.8	666.9	768.0	822.7	757.1
21.9	77.5°	32.8	103.9	213.2	322.5	426.4	538.4	595.8	625.9	519.3
16.4	80°	19.1	73.8	166.7	256.9	295.2	396.3	451.0	459.2	347.1
10.9	82.5°	13.7	54.7	131.2	188.6	180.4	278.8	338.9	328.0	221.4
8.2	85°	8.2	38.3	82.0	117.5	109.3	183.1	196.8	202.3	128.5
5.5	87.5°	5.5	21.9	43.7	62.9	51.9	79.3	79.3	95.7	62.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14770.1
14403.9
14464.0
14289.1
14048.6
13753.4
13406.3
12990.8
12436.0
11897.6
11222.5
10621.2
9910.5
9227.2
8472.9
7882.5
7147.3
6499.5
5857.2
5236.8
4646.4
4083.4
3517.6
3022.9
2577.4
2153.8
1809.4
1530.6
1268.2
1000.3
707.9
500.2
325.2
205.0
117.5
54.7
0.0

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