

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: P638040

Luminaire Tested: **IFLD-L-SA8C-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638040
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33945.7 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

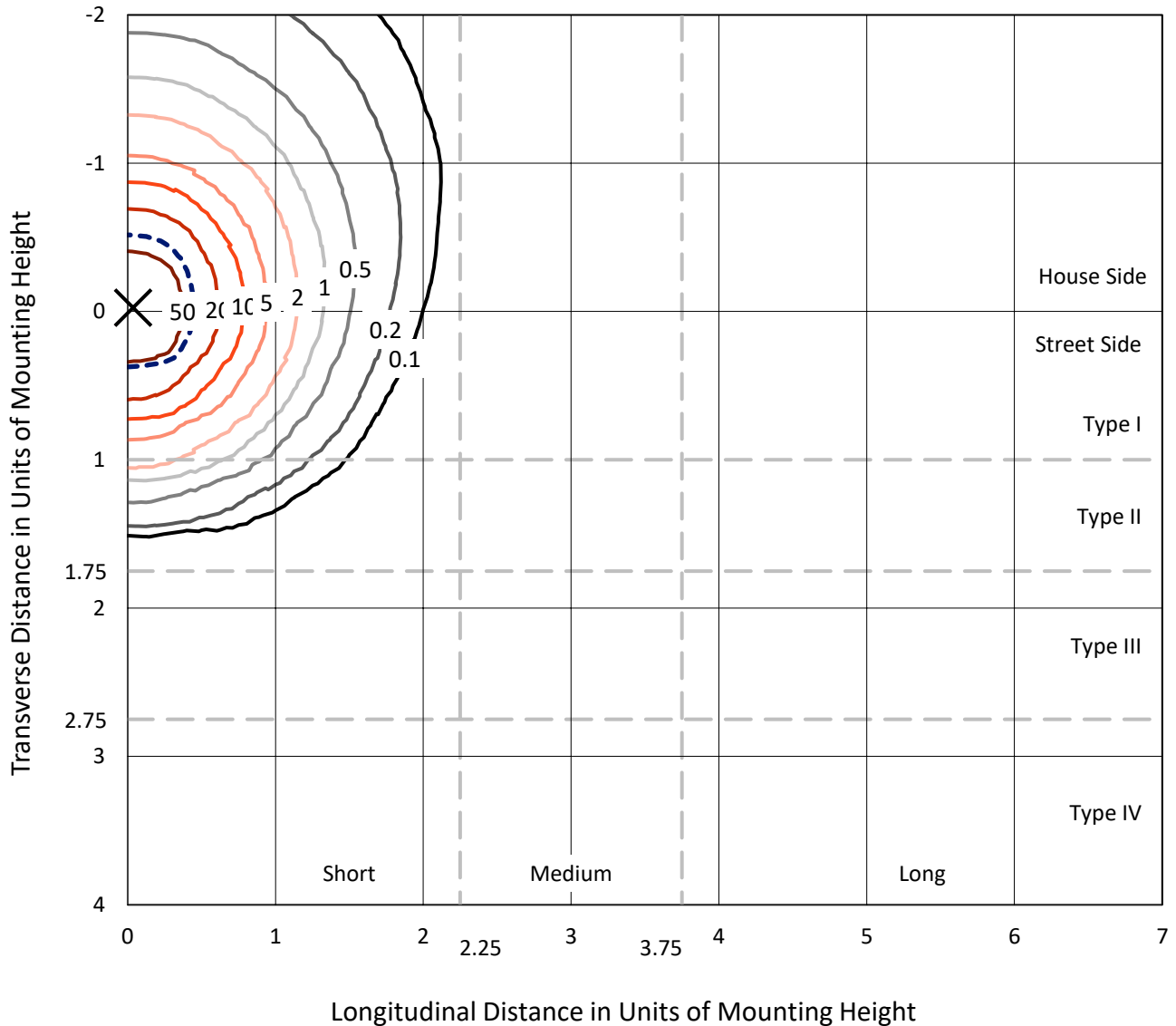
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

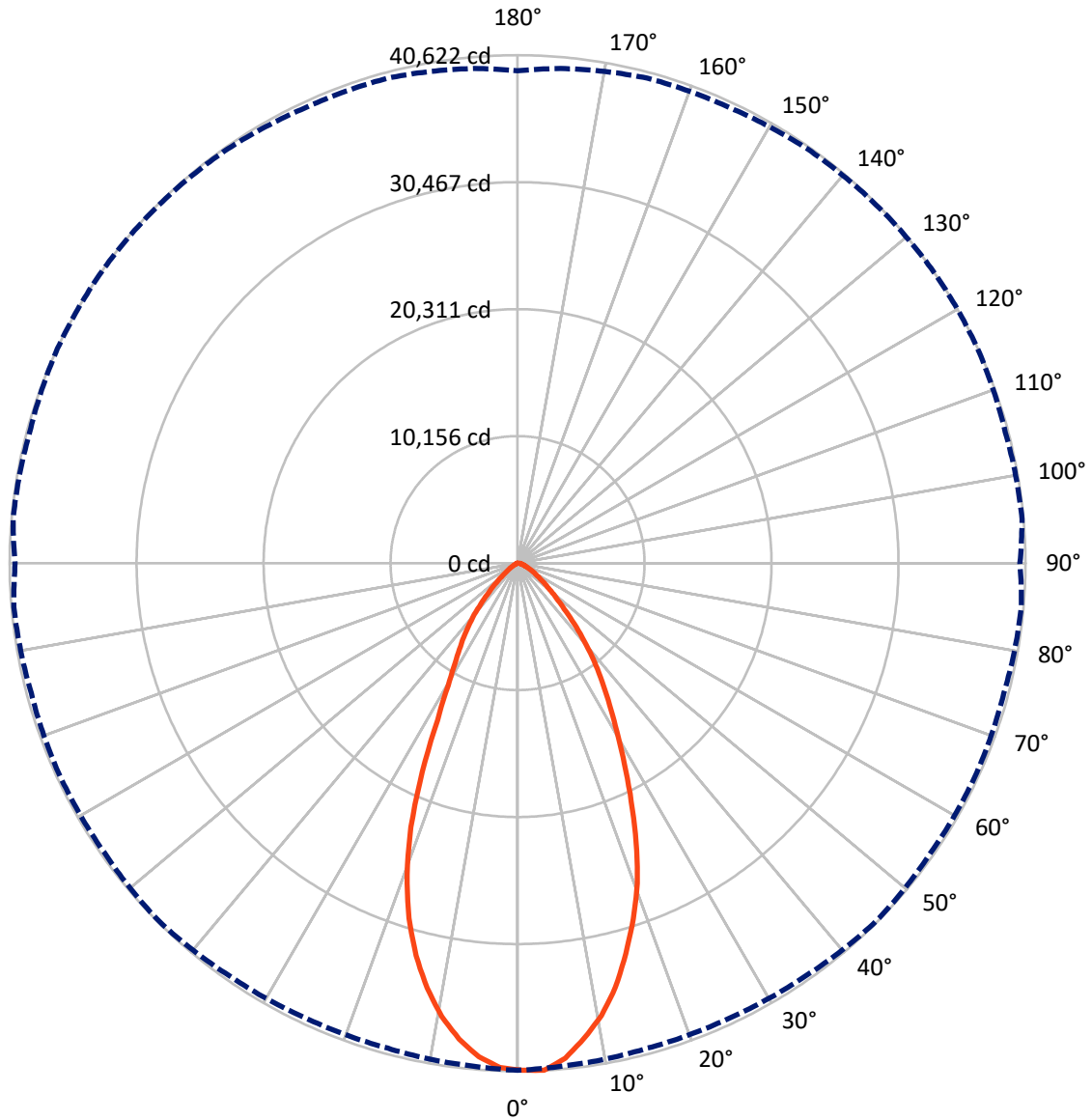
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 101.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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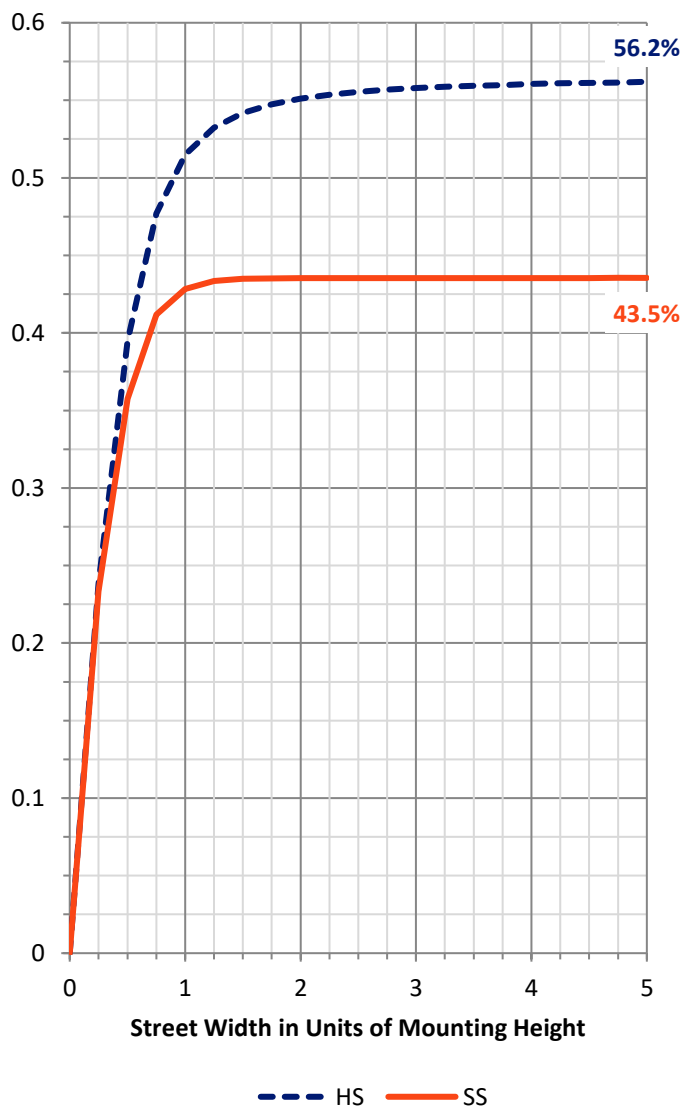
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19262.1	0.0	19262.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	14683.6	0.0	14683.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	33945.7	0.0	33945.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3682.7	10.8
10°-20°	8778.8	25.9
20°-30°	8941.0	26.3
30°-40°	6667.3	19.6
40°-50°	3483.2	10.3
50°-60°	1465.0	4.3
60°-70°	598.3	1.8
70°-80°	251.8	0.7
80°-90°	77.6	0.2
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°	33945.7	100.0
0°-180°	33945.7	100.0



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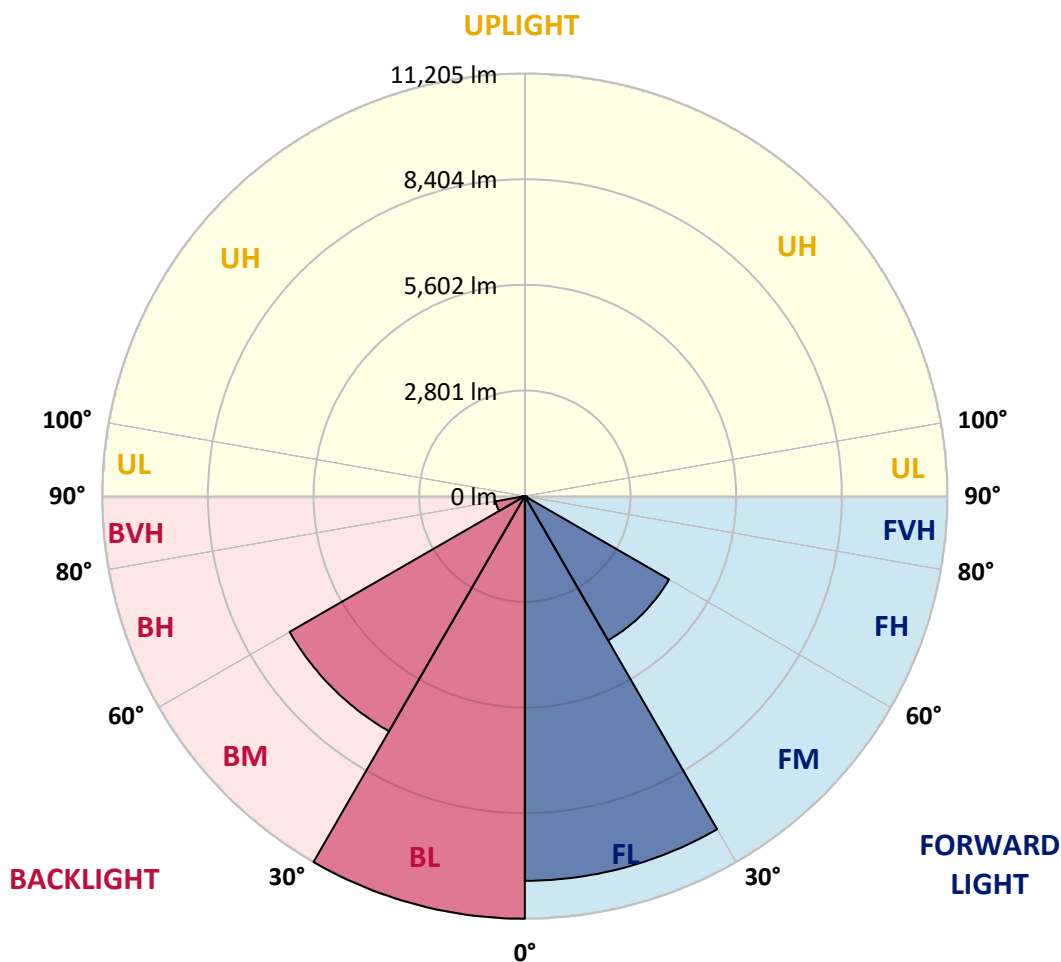
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10197.7	30.0			
FM (30°-60°)	4414.8	13.0			
FH (60°-80°)	63.9	0.2			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	11204.8	33.0	B5		
BM (30°-60°)	7200.7	21.2	B4/8500		
BH (60°-80°)	786.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	70.4	0.2			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°	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9
2.5°	40561.3	40395.6	40160.1	40138.3	40260.4	40526.4	40356.3	40365.0	40260.4	40439.2
5°	39924.6	39767.6	39606.3	39392.6	39571.4	39684.8	39597.6	39501.7	39366.5	39540.9
7.5°	38721.1	38633.9	38394.1	38298.2	38407.2	38533.6	38346.1	38320.0	38132.5	38359.2
10°	36881.0	36846.1	36610.6	36554.0	36649.9	36841.8	36758.9	36741.5	36623.7	36601.9
12.5°	34971.1	34835.9	34543.8	34526.3	34670.2	34958.0	34735.6	34522.0	34587.4	34644.1
15°	30052.5	29908.6	30632.4	31770.5	32367.9	32346.1	32411.5	32154.2	32075.7	32101.9
17.5°	23891.1	23646.9	23908.6	25670.2	28508.9	30157.1	29703.6	29149.9	28853.3	28657.1
20°	20620.7	20633.8	20585.9	21039.4	22809.7	26568.4	26459.4	25391.1	25003.0	24841.7
22.5°	18632.4	18558.2	18453.6	18597.5	19072.8	21279.2	22757.4	21776.3	21641.1	21462.3
25°	16683.2	16683.2	16556.8	16700.7	16835.8	16866.4	18348.9	18750.1	18488.5	18488.5
27.5°	14995.7	14908.5	14851.8	14917.2	14738.4	13879.4	14066.9	16120.7	15941.9	15832.9
30°	13321.3	13295.1	13199.2	13286.4	12623.6	11655.6	11263.1	13604.7	13792.2	13753.0
32.5°	10997.1	11101.8	11529.1	11664.3	10530.6	9750.0	9375.0	11293.7	12043.7	12013.1
35°	7473.9	7561.1	8049.5	9662.8	8729.7	8171.6	8062.5	8982.6	10216.6	10334.4
37.5°	5952.1	5939.0	6078.5	6366.3	7016.0	6880.8	6850.3	7090.2	8332.9	8385.2
40°	4905.5	4888.1	4883.7	4648.3	4486.9	5721.0	5638.1	5494.2	6571.3	6675.9
42.5°	3955.0	3972.4	3985.5	3470.9	3235.5	4412.8	4364.8	4216.6	5154.1	5276.2
45°	3104.7	3100.3	3126.5	2585.8	2520.4	2821.2	3261.6	3143.9	3889.6	4020.4
47.5°	1609.0	1665.7	2018.9	2001.5	2032.0	2001.5	2468.0	2437.5	2925.9	3135.2
50°	1081.4	1098.8	1129.4	1133.7	1600.3	1473.8	1674.4	1896.8	2049.4	2372.1
52.5°	837.2	850.3	771.8	723.8	981.1	1090.1	1098.8	1312.5	1430.2	1757.3
55°	466.6	523.3	562.5	566.9	540.7	806.7	802.3	972.4	1064.0	1282.0
57.5°	61.0	74.1	113.4	366.3	361.9	449.1	562.5	706.4	758.7	937.5
60°	4.4	8.7	13.1	56.7	239.8	261.6	383.7	440.4	527.6	658.4
62.5°	0.0	0.0	4.4	13.1	48.0	152.6	200.6	231.1	309.6	431.7
65°	0.0	0.0	4.4	8.7	17.4	56.7	78.5	126.5	183.1	266.0
67.5°	0.0	0.0	4.4	8.7	13.1	21.8	34.9	56.7	95.9	161.3
70°	0.0	0.0	4.4	8.7	13.1	17.4	26.2	34.9	52.3	87.2
72.5°	0.0	0.0	4.4	4.4	8.7	21.8	21.8	26.2	34.9	48.0
75°	0.0	0.0	4.4	8.7	13.1	21.8	21.8	21.8	26.2	30.5
77.5°	0.0	0.0	4.4	8.7	13.1	21.8	17.4	21.8	21.8	21.8
80°	0.0	0.0	4.4	8.7	13.1	21.8	26.2	21.8	17.4	17.4
82.5°	0.0	0.0	4.4	13.1	13.1	30.5	30.5	30.5	13.1	13.1
85°	0.0	0.0	8.7	13.1	21.8	34.9	34.9	26.2	13.1	8.7
87.5°	0.0	0.0	4.4	8.7	8.7	17.4	26.2	21.8	8.7	4.4
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°
40556.9	0°	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9	40556.9
40177.5	2.5°	40500.2	40391.2	40596.1	40622.3	40535.1	40426.1	40173.2	40151.4	39711.0
39288.0	5°	39732.8	39554.0	39684.8	39772.0	39741.5	39623.7	39519.1	39423.2	39026.4
37844.7	7.5°	38302.5	38237.1	38298.2	38363.6	38490.0	38363.6	38320.0	38219.7	37827.2
36423.1	10°	36715.3	36593.2	36824.3	36793.8	36758.9	36724.0	36540.9	36558.3	36096.1
34487.1	12.5°	34766.2	34561.2	34783.6	34809.8	34783.6	34661.5	34456.6	34543.8	34120.8
31870.8	15°	32145.5	32123.7	32285.0	32389.7	32463.8	32333.0	32263.2	32306.8	32053.9
28504.5	17.5°	28927.5	29210.9	29738.5	29917.3	29921.7	30056.8	30017.6	29965.3	29777.8
24776.3	20°	25142.6	25687.6	26498.7	27331.5	27571.4	27458.0	27405.7	27501.6	27222.5
21274.8	22.5°	21649.8	22116.4	23058.3	24274.8	24976.9	25046.6	25033.6	24950.7	24841.7
18471.0	25°	18684.7	19098.9	20001.6	21113.5	22460.9	22661.5	22670.2	22644.0	22548.1
15928.9	27.5°	16181.8	16683.2	17180.3	18174.5	19609.1	20437.6	20333.0	20302.4	20267.5
13783.5	30°	13914.3	14546.6	15013.2	15632.3	16918.7	18039.3	18148.3	18096.0	18013.2
12008.8	32.5°	12117.8	12492.8	13085.8	13504.4	14428.9	15697.8	16116.4	16077.1	16003.0
10408.5	35°	10556.7	10705.0	11171.6	11638.1	12253.0	13482.6	14101.8	14014.6	14001.5
8481.1	37.5°	8694.8	9191.9	9449.2	9920.1	10351.8	11306.7	12161.4	12122.2	12126.5
6819.8	40°	7020.4	7308.2	7818.4	8215.2	8612.0	9309.6	10260.2	10286.4	10277.7
5280.5	42.5°	5389.6	5668.6	6205.0	6636.7	6989.9	7421.5	8328.5	8359.1	8398.3
4111.9	45°	4207.9	4386.7	4779.1	5228.2	5603.2	5864.9	6553.8	6750.0	6754.4
3187.5	47.5°	3266.0	3470.9	3750.0	4181.7	4548.0	4735.5	5236.9	5502.9	5489.9
2446.2	50°	2564.0	2751.5	2978.2	3318.3	3715.1	3863.4	4234.0	4495.7	4482.6
1844.5	52.5°	1962.2	2202.0	2402.6	2664.3	3052.3	3178.8	3444.8	3745.7	3702.1
1351.8	55°	1486.9	1731.1	1918.6	2136.6	2489.8	2651.2	2834.3	3074.1	3082.9
1046.5	57.5°	1120.6	1373.6	1543.6	1766.0	2032.0	2210.8	2350.3	2607.6	2603.2
715.1	60°	802.3	1020.4	1225.3	1456.4	1661.3	1866.3	1962.2	2206.4	2215.1
505.8	62.5°	579.9	784.9	981.1	1181.7	1364.8	1565.4	1652.6	1844.5	1870.6
331.4	65°	405.5	549.4	776.2	928.8	1133.7	1282.0	1395.4	1561.1	1591.6
196.2	67.5°	261.6	396.8	614.8	750.0	937.5	1064.0	1181.7	1312.5	1351.8
126.5	70°	157.0	300.9	457.9	601.7	771.8	885.2	998.6	1111.9	1133.7
61.0	72.5°	100.3	209.3	331.4	488.4	619.2	741.3	841.6	924.4	859.0
39.2	75°	56.7	143.9	261.6	383.7	501.5	619.2	702.0	745.6	597.4
26.2	77.5°	34.9	104.7	213.7	309.6	388.1	497.1	549.4	575.6	427.3
17.4	80°	21.8	78.5	178.8	252.9	252.9	366.3	427.3	449.1	309.6
13.1	82.5°	17.4	56.7	139.5	191.9	170.1	274.7	335.8	340.1	218.0
8.7	85°	13.1	43.6	87.2	126.5	117.7	191.9	196.2	218.0	143.9
8.7	87.5°	8.7	26.2	52.3	74.1	65.4	91.6	104.7	117.7	78.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
40556.9
39366.5
38708.0
37744.4
35939.1
33998.7
31748.7
29498.7
27021.9
24632.4
22225.4
20062.6
17908.5
15806.8
13857.6
11987.0
10125.1
8267.5
6641.0
5441.9
4482.6
3706.4
3082.9
2594.5
2193.3
1861.9
1582.9
1347.4
1116.3
798.0
566.9
401.2
287.8
200.6
130.8
69.8
0.0

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