

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: P637895

Luminaire Tested: **IFLD-L-SA8C-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637895
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42135.2 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

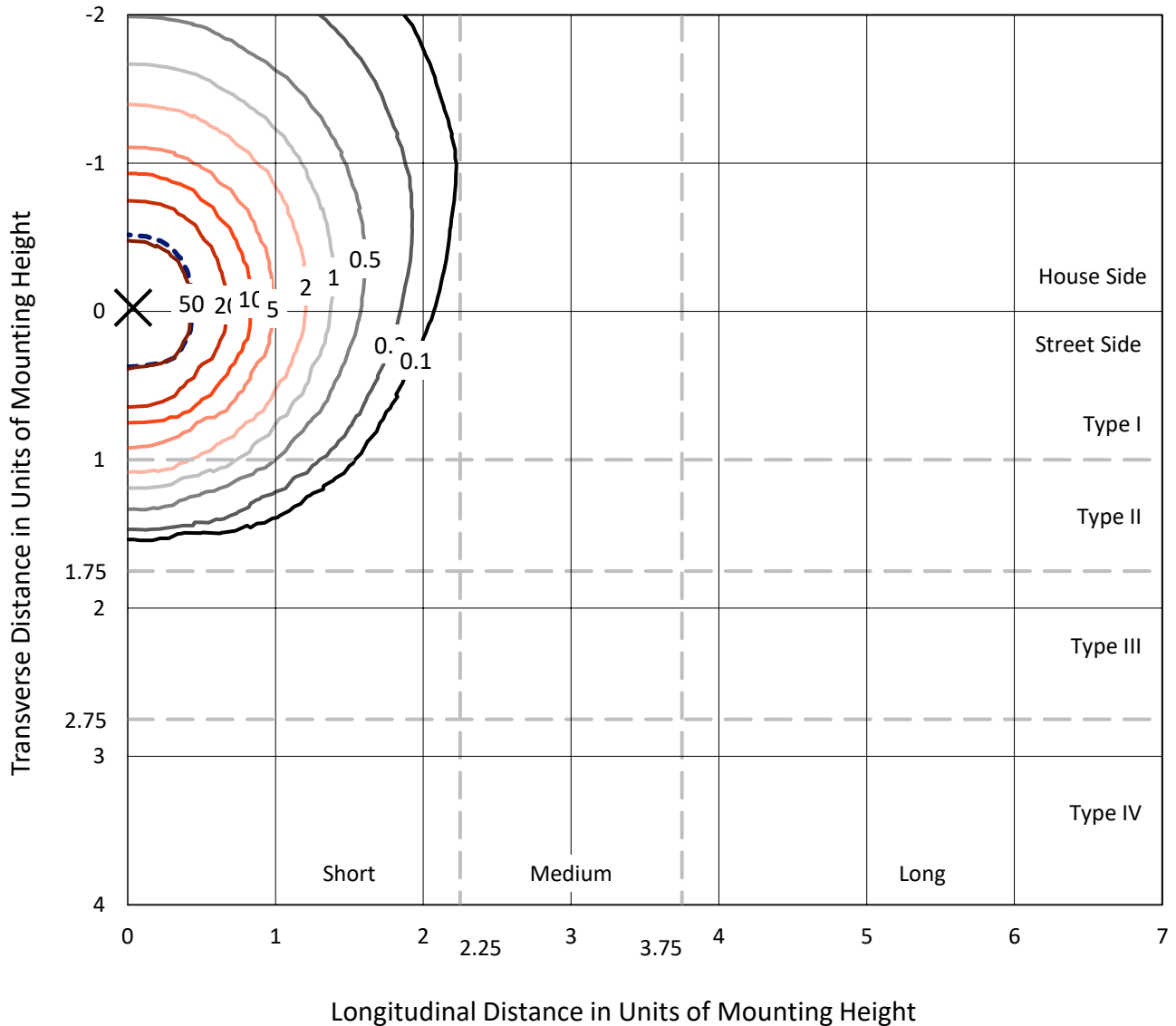
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

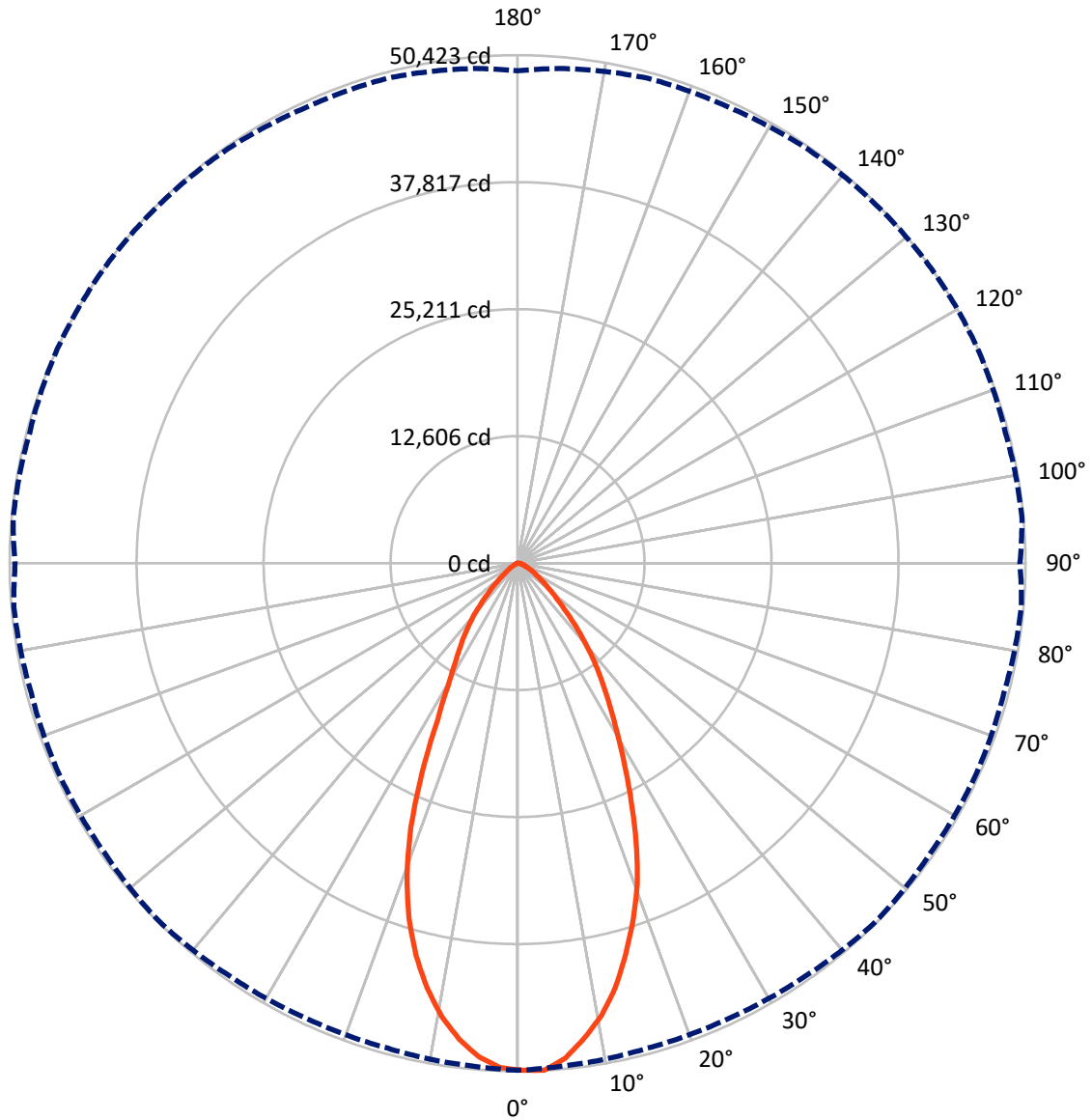
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 125.9 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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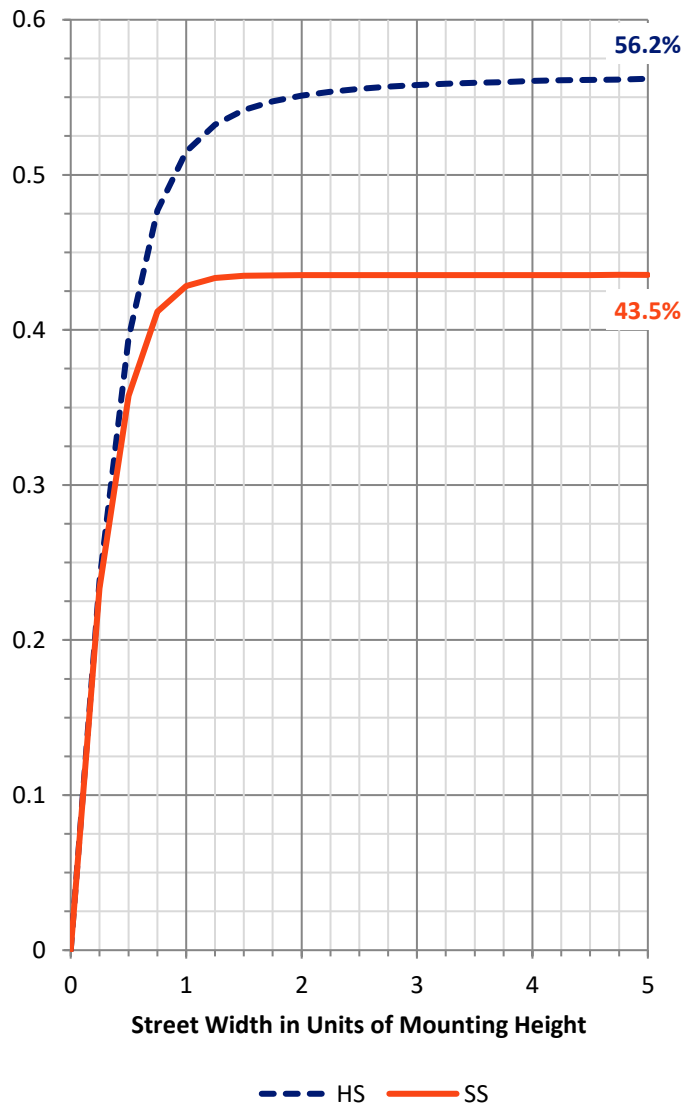
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23909.2	0.0	23909.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	18226.0	0.0	18226.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	42135.2	0.0	42135.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4571.2	10.8
10°-20°	10896.7	25.9
20°-30°	11098.1	26.3
30°-40°	8275.8	19.6
40°-50°	4323.5	10.3
50°-60°	1818.5	4.3
60°-70°	742.7	1.8
70°-80°	312.5	0.7
80°-90°	96.3	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°	42135.2	100.0
0°-180°	42135.2	100.0



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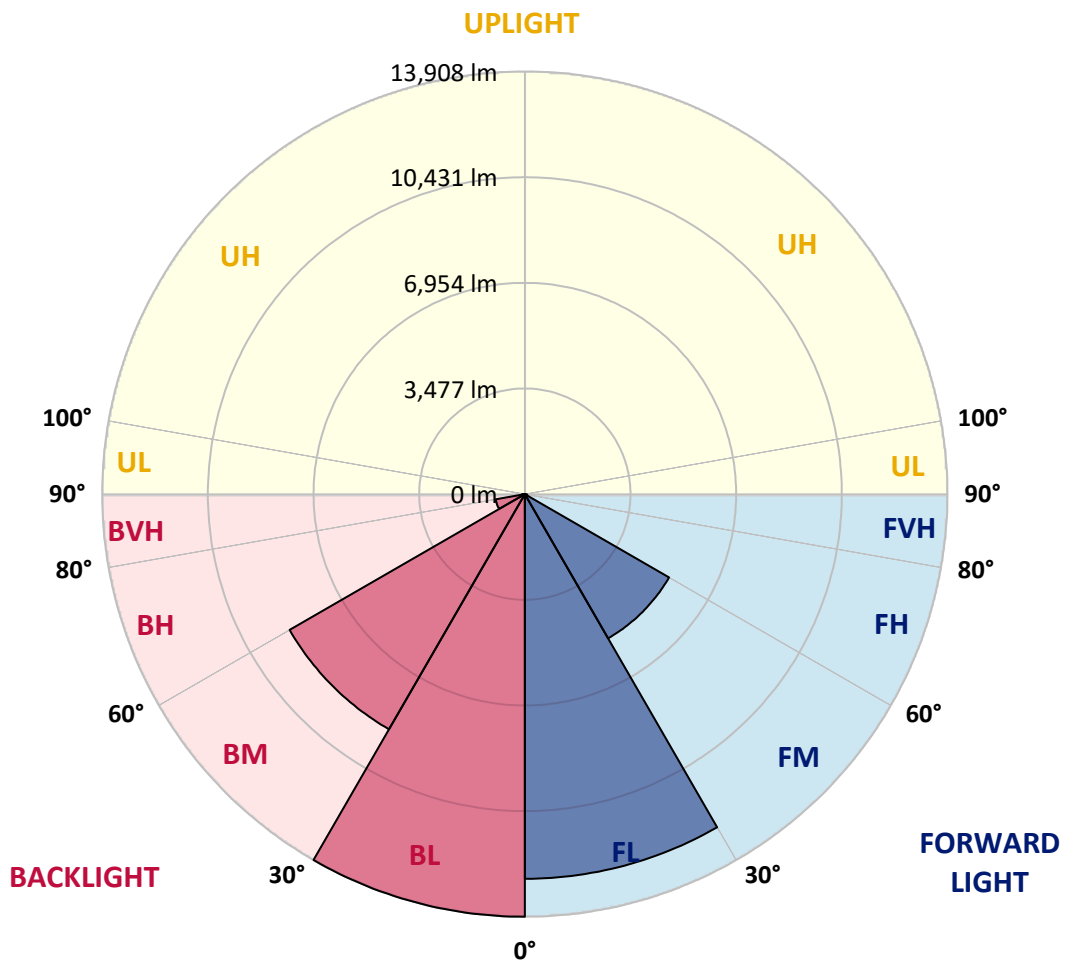
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12657.9	30.0			
FM (30°-60°)	5479.8	13.0			
FH (60°-80°)	79.3	0.2			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	13908.0	33.0	B5		
BM (30°-60°)	8937.9	21.2	B5		
BH (60°-80°)	975.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	87.3	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°	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4
2.5°	50346.8	50141.1	49848.8	49821.8	49973.3	50303.5	50092.4	50103.2	49973.3	50195.2
5°	49556.6	49361.7	49161.5	48896.3	49118.2	49258.9	49150.6	49031.6	48863.8	49080.3
7.5°	48062.7	47954.5	47656.8	47537.7	47673.0	47830.0	47597.3	47564.8	47332.0	47613.5
10°	45778.7	45735.4	45443.1	45372.7	45491.8	45730.0	45627.1	45605.5	45459.3	45432.3
12.5°	43408.0	43240.2	42877.6	42855.9	43034.5	43391.8	43115.7	42850.5	42931.7	43002.1
15°	37302.7	37124.1	38022.6	39435.3	40176.8	40149.7	40230.9	39911.6	39814.1	39846.6
17.5°	29654.9	29351.8	29676.6	31863.2	35386.7	37432.6	36869.7	36182.4	35814.3	35570.8
20°	25595.6	25611.8	25552.3	26115.2	28312.6	32978.2	32842.9	31516.8	31035.1	30834.8
22.5°	23127.5	23035.5	22905.6	23084.2	23674.1	26412.9	28247.7	27029.9	26862.1	26640.2
25°	20708.1	20708.1	20551.1	20729.8	20897.5	20935.4	22775.7	23273.6	22948.9	22948.9
27.5°	18613.5	18505.2	18434.9	18516.1	18294.1	17227.9	17460.6	20009.9	19788.0	19652.7
30°	16535.1	16502.6	16383.5	16491.8	15669.1	14467.5	13980.4	16886.9	17119.6	17070.9
32.5°	13650.2	13780.1	14310.6	14478.4	13071.1	12102.3	11636.8	14018.3	14949.2	14911.4
35°	9277.0	9385.2	9991.4	11994.0	10835.8	10143.0	10007.7	11149.7	12681.4	12827.6
37.5°	7388.0	7371.8	7545.0	7902.2	8708.7	8540.9	8503.0	8800.7	10343.2	10408.2
40°	6089.0	6067.4	6062.0	5769.7	5569.4	7101.2	6998.3	6819.7	8156.6	8286.5
42.5°	4909.1	4930.8	4947.0	4308.3	4016.1	5477.4	5417.9	5233.9	6397.5	6549.1
45°	3853.7	3848.3	3880.7	3209.6	3128.4	3501.9	4048.5	3902.4	4827.9	4990.3
47.5°	1997.2	2067.6	2506.0	2484.3	2522.2	2484.3	3063.5	3025.6	3631.8	3891.6
50°	1342.3	1363.9	1401.8	1407.2	1986.4	1829.4	2078.4	2354.4	2543.9	2944.4
52.5°	1039.2	1055.4	958.0	898.5	1217.8	1353.1	1363.9	1629.2	1775.3	2181.2
55°	579.1	649.5	698.2	703.6	671.1	1001.3	995.9	1207.0	1320.6	1591.3
57.5°	75.8	92.0	140.7	454.6	449.2	557.5	698.2	876.8	941.8	1163.7
60°	5.4	10.8	16.2	70.4	297.7	324.7	476.3	546.7	654.9	817.3
62.5°	0.0	0.0	5.4	16.2	59.5	189.4	249.0	286.9	384.3	535.8
65°	0.0	0.0	5.4	10.8	21.6	70.4	97.4	157.0	227.3	330.2
67.5°	0.0	0.0	5.4	10.8	16.2	27.1	43.3	70.4	119.1	200.3
70°	0.0	0.0	5.4	10.8	16.2	21.6	32.5	43.3	64.9	108.2
72.5°	0.0	0.0	5.4	5.4	10.8	27.1	27.1	32.5	43.3	59.5
75°	0.0	0.0	5.4	10.8	16.2	27.1	27.1	27.1	32.5	37.9
77.5°	0.0	0.0	5.4	10.8	16.2	27.1	21.6	27.1	27.1	27.1
80°	0.0	0.0	5.4	10.8	16.2	27.1	32.5	27.1	21.6	21.6
82.5°	0.0	0.0	5.4	16.2	16.2	37.9	37.9	37.9	16.2	16.2
85°	0.0	0.0	10.8	16.2	27.1	43.3	43.3	32.5	16.2	10.8
87.5°	0.0	0.0	5.4	10.8	10.8	21.6	32.5	27.1	10.8	5.4
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°
50341.4	0°	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4	50341.4
49870.5	2.5°	50271.0	50135.7	50390.1	50422.6	50314.3	50179.0	49865.1	49838.0	49291.4
48766.4	5°	49318.4	49096.5	49258.9	49367.1	49329.2	49183.1	49053.2	48934.1	48441.6
46974.8	7.5°	47543.1	47461.9	47537.7	47618.9	47775.9	47618.9	47564.8	47440.3	46953.2
45210.4	10°	45573.0	45421.4	45708.3	45670.4	45627.1	45583.8	45356.5	45378.1	44804.4
42807.2	12.5°	43153.6	42899.2	43175.3	43207.7	43175.3	43023.7	42769.3	42877.6	42352.6
39559.7	15°	39900.7	39873.7	40073.9	40203.8	40295.8	40133.5	40046.9	40101.0	39787.1
35381.3	17.5°	35906.3	36258.1	36913.0	37135.0	37140.4	37308.2	37259.4	37194.5	36961.8
30753.7	20°	31208.3	31884.9	32891.6	33925.4	34223.0	34082.3	34017.4	34136.4	33790.0
26407.4	22.5°	26872.9	27452.0	28621.1	30131.2	31002.6	31089.2	31073.0	30970.2	30834.8
22927.2	25°	23192.4	23706.6	24827.0	26207.2	27879.6	28128.6	28139.4	28107.0	27987.9
19771.8	27.5°	20085.7	20708.1	21325.1	22559.2	24339.9	25368.2	25238.3	25200.5	25157.2
17108.8	30°	17271.2	18056.0	18635.1	19403.7	21000.4	22391.4	22526.7	22461.7	22358.9
14905.9	32.5°	15041.3	15506.7	16242.8	16762.4	17909.9	19484.9	20004.5	19955.8	19863.8
12919.6	35°	13103.6	13287.6	13866.7	14445.9	15209.0	16735.4	17503.9	17395.7	17379.4
10527.3	37.5°	10792.5	11409.5	11728.8	12313.4	12849.2	14034.5	15095.4	15046.7	15052.1
8465.1	40°	8714.1	9071.3	9704.6	10197.1	10689.6	11555.6	12735.5	12768.0	12757.2
6554.5	42.5°	6689.8	7036.2	7701.9	8237.8	8676.2	9212.0	10337.8	10375.7	10424.4
5104.0	45°	5223.0	5444.9	5932.1	6489.6	6955.0	7279.8	8134.9	8378.5	8383.9
3956.5	47.5°	4053.9	4308.3	4654.7	5190.6	5645.2	5877.9	6500.4	6830.5	6814.3
3036.4	50°	3182.5	3415.3	3696.7	4118.9	4611.4	4795.4	5255.5	5580.3	5564.0
2289.5	52.5°	2435.6	2733.3	2982.3	3307.0	3788.7	3945.7	4275.9	4649.3	4595.2
1677.9	55°	1845.7	2148.8	2381.5	2652.1	3090.5	3290.8	3518.1	3815.8	3826.6
1299.0	57.5°	1391.0	1704.9	1916.0	2192.1	2522.2	2744.1	2917.3	3236.7	3231.2
887.6	60°	995.9	1266.5	1520.9	1807.8	2062.2	2316.5	2435.6	2738.7	2749.5
627.8	62.5°	719.9	974.2	1217.8	1466.8	1694.1	1943.1	2051.3	2289.5	2321.9
411.3	65°	503.4	682.0	963.4	1152.9	1407.2	1591.3	1732.0	1937.7	1975.6
243.6	67.5°	324.7	492.5	763.2	930.9	1163.7	1320.6	1466.8	1629.2	1677.9
157.0	70°	194.8	373.5	568.3	746.9	958.0	1098.7	1239.5	1380.2	1407.2
75.8	72.5°	124.5	259.8	411.3	606.2	768.6	920.1	1044.6	1147.4	1066.3
48.7	75°	70.4	178.6	324.7	476.3	622.4	768.6	871.4	925.5	741.5
32.5	77.5°	43.3	129.9	265.2	384.3	481.7	617.0	682.0	714.4	530.4
21.6	80°	27.1	97.4	221.9	313.9	313.9	454.6	530.4	557.5	384.3
16.2	82.5°	21.6	70.4	173.2	238.1	211.1	341.0	416.8	422.2	270.6
10.8	85°	16.2	54.1	108.2	157.0	146.1	238.1	243.6	270.6	178.6
10.8	87.5°	10.8	32.5	64.9	92.0	81.2	113.7	129.9	146.1	97.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
50341.4
48863.8
48046.5
46850.3
44609.6
42201.0
39408.2
36615.4
33541.1
30575.0
27587.4
24902.8
22229.0
19620.2
17200.8
14878.9
12567.8
10262.0
8243.2
6754.8
5564.0
4600.6
3826.6
3220.4
2722.5
2311.1
1964.7
1672.5
1385.6
990.5
703.6
497.9
357.2
249.0
162.4
86.6
0.0

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