

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: P637544

Luminaire Tested: **IFLD-L-SA7E-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637544
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39059.8 lumens
Efficiency: N/A
Efficacy: 73.3 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): 532.7
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

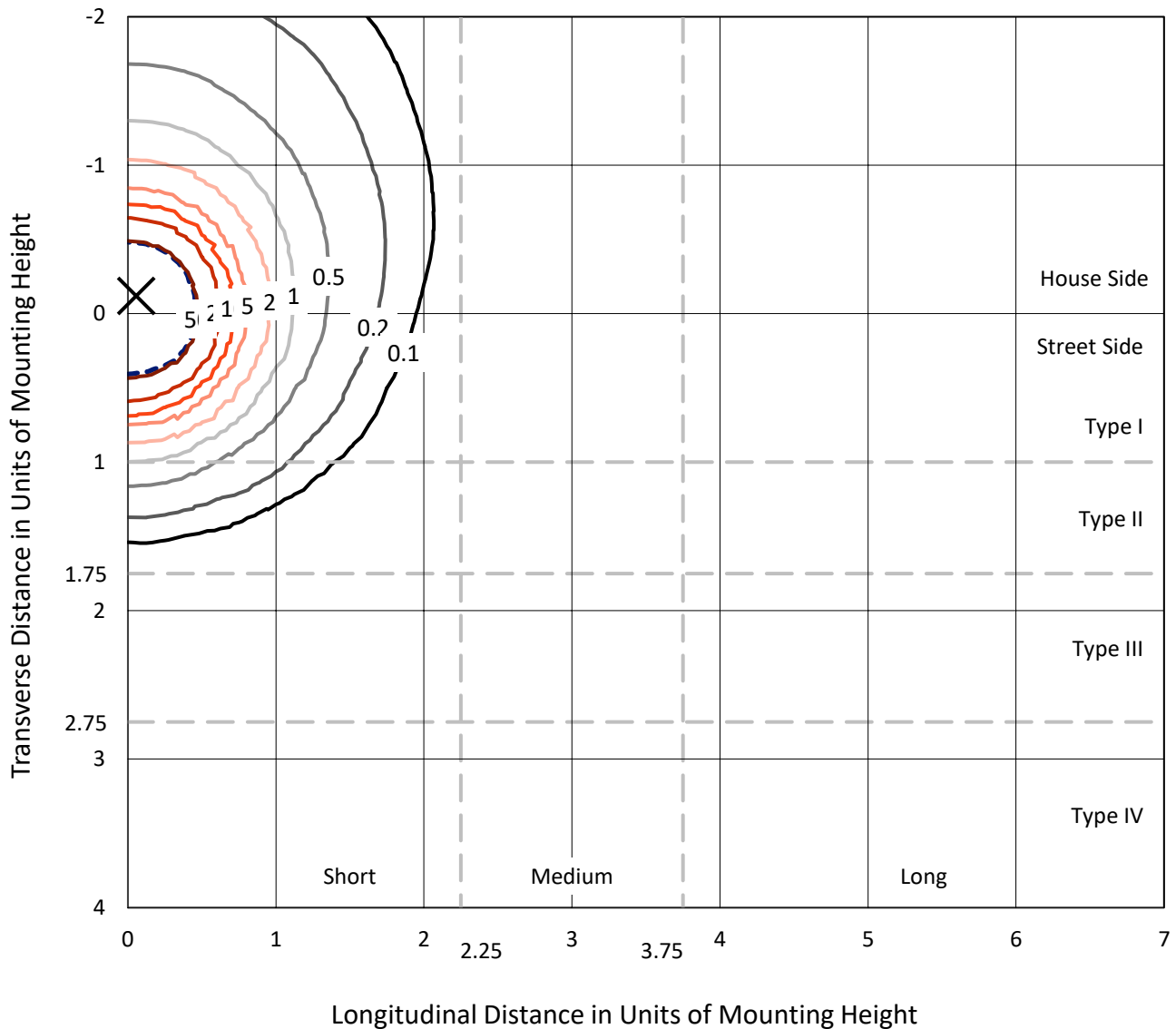


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



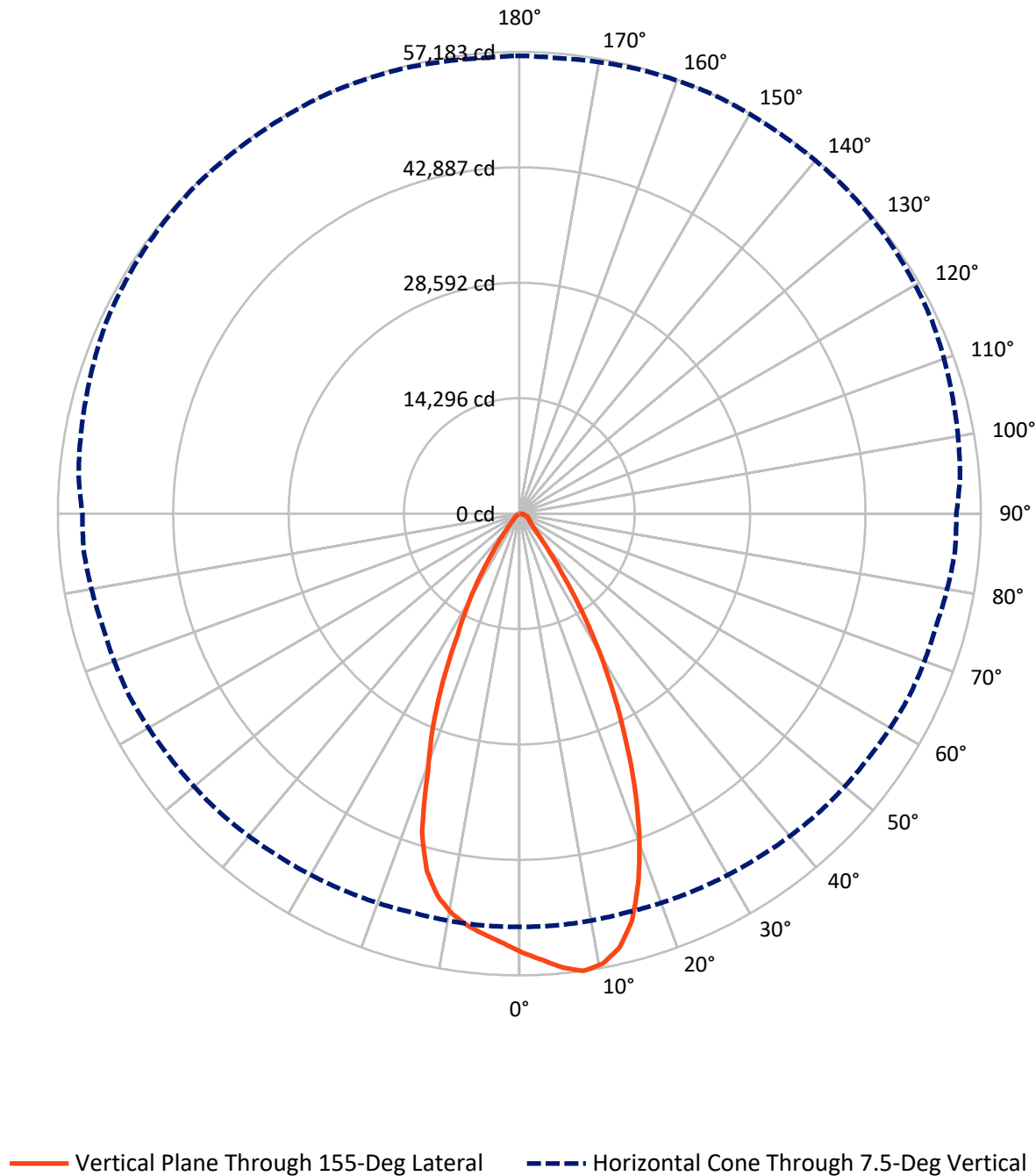
Based on 20 foot mounting height. Maximum calculated value = 138.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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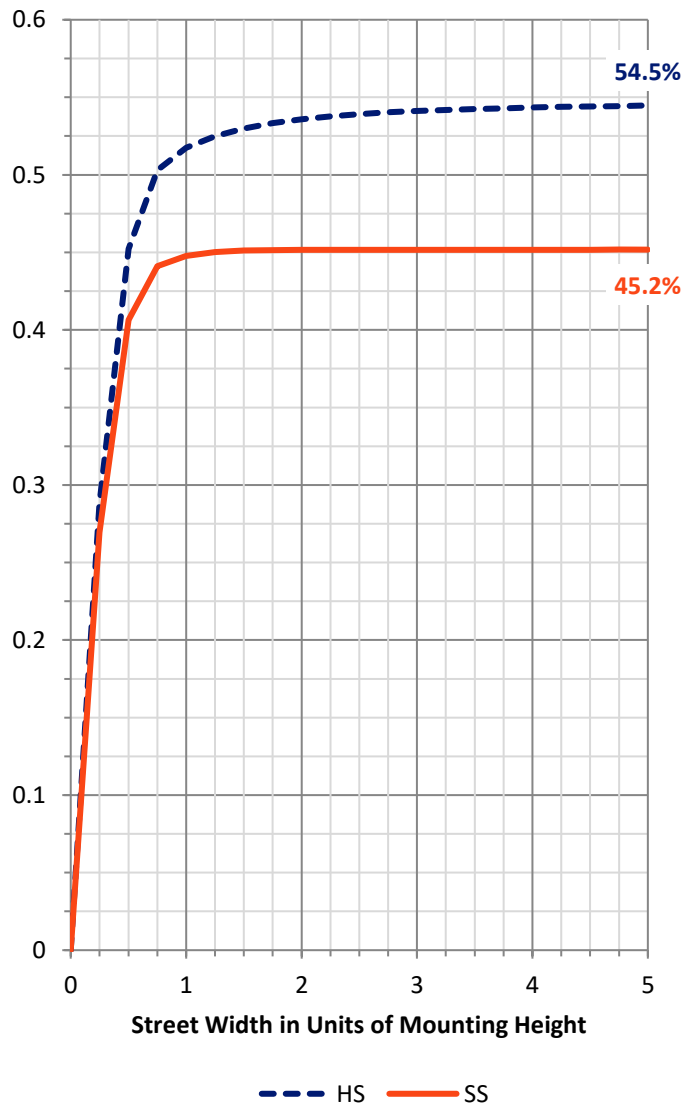
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21562.5	0.0	21562.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17497.4	0.0	17497.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	39059.8	0.0	39059.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5188.7	13.3
10°-20°	13454.2	34.4
20°-30°	12327.8	31.6
30°-40°	4980.4	12.8
40°-50°	1461.0	3.7
50°-60°	816.9	2.1
60°-70°	496.2	1.3
70°-80°	252.1	0.6
80°-90°	82.4	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°	39059.8	100.0
0°-180°	39059.8	100.0

Coefficient of Utilization



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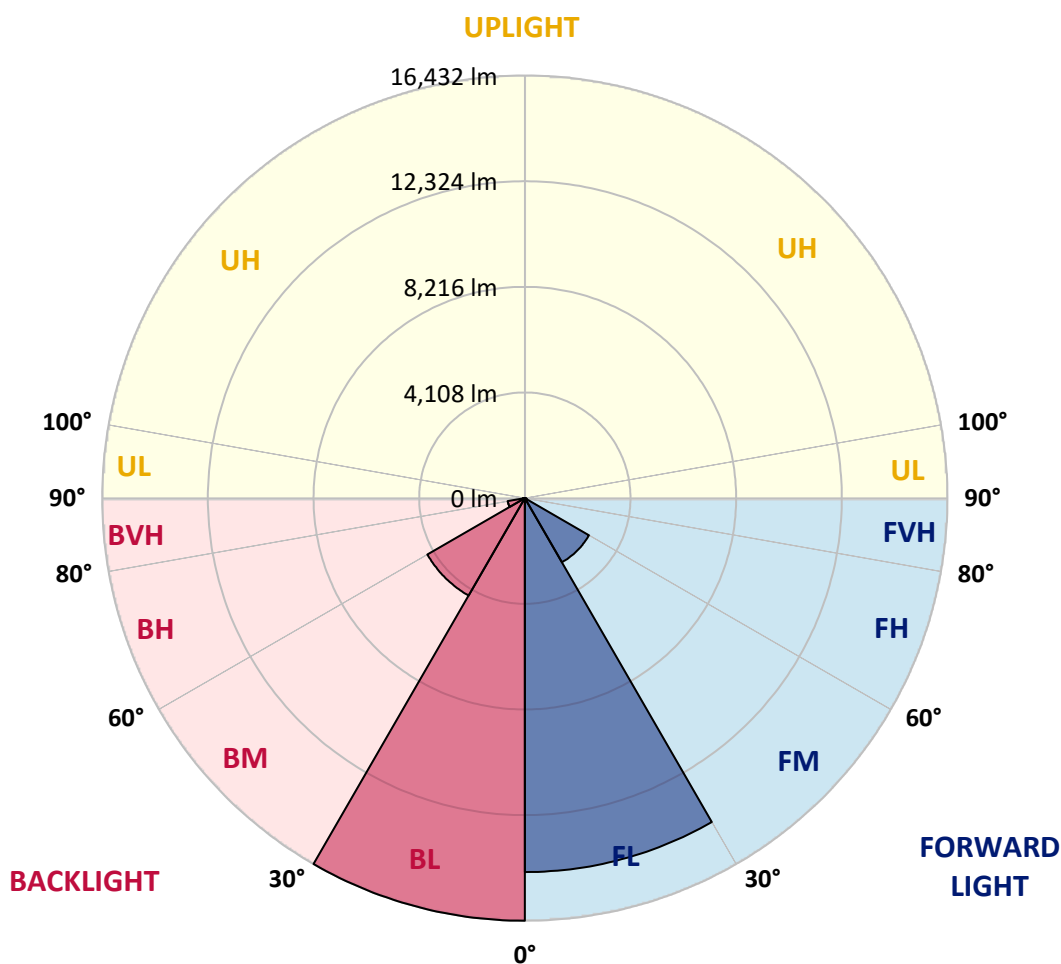
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14539.1	37.2			
FM	(30°-60°)	2881.4	7.4			
FH	(60°-80°)	69.8	0.2			G0/660
FVH	(80°-90°)	7.1	0.0			G0/10
BL	(0°-30°)	16431.7	42.1	B5		
BM	(30°-60°)	4377.0	11.2	B3/5000		
BH	(60°-80°)	678.5	1.7	B2/1000		G2/1000
BVH	(80°-90°)	75.3	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°	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4
2.5°	53233.3	53413.5	53053.1	53291.8	53476.5	53917.9	53953.9	54107.1	54161.1	54562.0
5°	52224.4	52364.0	52071.3	52391.0	52652.3	53044.1	53345.9	53769.3	54003.5	54476.4
7.5°	51174.9	51206.5	51147.9	51485.7	51877.6	52418.1	52791.9	53345.9	53490.0	54165.6
10°	49904.8	49675.1	49787.7	50283.1	50868.7	51697.4	51954.1	52508.1	52764.9	53454.0
12.5°	47878.0	47995.1	47855.5	48486.0	48972.5	49913.8	50184.1	50742.6	51233.5	51841.5
15°	45022.4	44954.9	45238.6	45729.6	46256.5	47004.2	47441.1	48049.1	48423.0	49053.5
17.5°	38604.2	38833.9	40004.9	41234.5	42315.5	43189.3	43711.7	44216.2	44486.4	45171.1
20°	33338.9	33050.7	33208.3	33901.9	36978.2	38315.9	38865.4	38987.0	39099.6	39640.1
22.5°	27452.1	27357.6	27884.5	28663.7	29393.4	32478.7	33226.3	32942.6	33176.8	33685.7
25°	20385.3	20862.7	21331.2	22826.5	23772.3	25285.7	26704.5	26830.6	26916.2	27236.0
27.5°	16592.9	16426.2	16417.2	16836.1	18232.4	19493.5	20700.6	20979.8	20930.3	21236.6
30°	13043.7	12989.7	12800.5	12899.6	12760.0	13881.5	14449.0	15597.5	15534.4	15543.5
32.5°	9408.9	9206.3	9129.7	9278.3	9134.2	9030.6	9526.1	10823.2	10800.7	10890.8
35°	5693.1	5666.1	5729.1	5859.8	5571.5	5562.5	5666.1	6886.7	7035.3	7179.4
37.5°	3143.8	3116.8	3166.3	3648.3	3553.7	3468.1	3495.1	4139.2	4567.1	4675.2
40°	2071.9	2067.4	2103.4	2189.0	2351.1	2319.6	2333.1	2621.4	3026.7	3121.3
42.5°	1387.2	1391.7	1414.3	1513.4	1535.9	1698.0	1671.0	1738.6	2116.9	2198.0
45°	1108.0	1103.5	1117.0	1072.0	1099.0	1265.6	1283.7	1288.2	1612.4	1662.0
47.5°	873.8	873.8	887.3	828.7	815.2	918.8	1013.4	1026.9	1288.2	1355.7
50°	612.5	612.5	680.1	653.1	684.6	716.1	819.7	833.2	1053.9	1126.0
52.5°	450.4	459.4	468.4	472.9	576.5	572.0	662.1	725.2	797.2	923.3
55°	342.3	351.3	328.8	351.3	427.9	477.4	495.4	585.5	635.1	774.7
57.5°	225.2	247.7	229.7	270.2	288.3	369.3	396.4	481.9	513.5	635.1
60°	31.5	36.0	58.6	189.2	202.7	243.2	306.3	382.8	414.4	518.0
62.5°	4.5	4.5	13.5	31.5	135.1	162.1	229.7	265.7	306.3	387.3
65°	0.0	0.0	4.5	9.0	27.0	94.6	117.1	144.1	211.7	279.3
67.5°	0.0	0.0	4.5	9.0	13.5	31.5	49.5	94.6	121.6	193.7
70°	0.0	0.0	4.5	9.0	13.5	18.0	27.0	36.0	72.1	112.6
72.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	27.0	31.5	72.1
75°	0.0	0.0	4.5	9.0	13.5	22.5	27.0	27.0	27.0	31.5
77.5°	0.0	0.0	4.5	9.0	18.0	27.0	31.5	27.0	22.5	22.5
80°	0.0	0.0	4.5	13.5	22.5	31.5	36.0	27.0	18.0	13.5
82.5°	0.0	0.0	4.5	13.5	22.5	31.5	36.0	31.5	18.0	13.5
85°	0.0	0.0	4.5	13.5	18.0	22.5	36.0	31.5	18.0	9.0
87.5°	0.0	0.0	0.0	4.5	4.5	9.0	18.0	13.5	9.0	4.5
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°
54413.4	0°	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4	54413.4
54553.0	2.5°	54958.3	55161.0	55516.8	55615.9	55922.2	55570.9	55377.2	55395.2	54976.4
54417.9	5°	54958.3	55422.3	56043.8	56341.1	56566.3	56548.3	56498.7	56372.6	56066.3
54147.6	7.5°	54814.2	55570.9	56426.7	56823.0	57093.3	57070.7	57183.3	56980.7	56606.8
53665.7	10°	54350.3	55007.9	56061.8	56386.1	56823.0	56832.0	56692.4	56732.9	56066.3
51904.6	12.5°	52891.0	53404.5	54327.8	54697.1	55228.6	55314.2	55161.0	55102.5	54471.9
49017.5	15°	50067.0	50364.2	51292.1	51661.4	52188.4	52116.3	52269.4	52206.4	51652.4
45117.0	17.5°	45936.7	46031.3	47004.2	47315.0	47810.4	48004.1	47774.4	48067.2	47589.7
39734.7	20°	40013.9	40522.9	41617.4	42094.8	42383.1	42729.9	42428.1	42756.9	42198.4
33203.8	22.5°	34005.5	34307.3	35298.2	35987.3	36523.3	36590.9	36478.3	36708.0	35955.8
27447.6	25°	27443.1	27943.1	28726.8	29627.6	30154.6	30478.9	30186.1	30334.7	30213.1
21286.1	27.5°	21646.4	22092.3	22682.4	23353.5	24146.2	24569.6	24335.4	24587.6	23993.0
15872.3	30°	15885.8	16111.0	16777.6	17489.2	18358.5	18871.9	18894.5	19151.2	18799.9
11120.5	32.5°	11201.6	11399.7	11809.6	12282.5	13111.3	13683.3	13593.2	13629.2	13413.0
7247.0	35°	7283.0	7548.8	7841.5	8066.7	8566.7	9197.3	9147.7	9102.7	8954.0
4765.3	37.5°	4868.9	4972.5	5134.6	5337.3	5661.6	6057.9	6188.6	6026.4	5963.4
3215.9	40°	3292.5	3472.6	3580.7	3733.9	3887.0	4220.3	4310.4	4278.8	4215.8
2252.0	42.5°	2337.6	2477.2	2612.3	2761.0	2842.1	3049.2	3224.9	3175.4	3148.3
1711.5	45°	1774.6	1900.7	2058.3	2170.9	2252.0	2373.6	2540.3	2558.3	2517.8
1373.7	47.5°	1423.3	1535.9	1662.0	1801.6	1896.2	1972.8	2116.9	2170.9	2143.9
1157.5	50°	1207.1	1292.7	1414.3	1553.9	1657.5	1725.0	1851.2	1909.7	1891.7
968.4	52.5°	1026.9	1130.5	1243.1	1360.2	1486.3	1553.9	1671.0	1756.6	1743.1
801.7	55°	851.3	986.4	1103.5	1220.6	1364.7	1432.3	1535.9	1648.5	1626.0
680.1	57.5°	743.2	855.8	977.4	1090.0	1243.1	1333.2	1427.8	1544.9	1540.4
558.5	60°	621.6	734.2	869.3	963.9	1126.0	1252.1	1337.7	1459.3	1468.3
423.4	62.5°	495.4	635.1	738.7	869.3	1017.9	1166.5	1247.6	1369.2	1414.3
324.3	65°	369.3	522.5	639.6	770.2	909.8	1076.5	1148.5	1270.1	1315.2
234.2	67.5°	274.7	391.9	540.5	653.1	810.7	954.9	1040.4	1153.0	1184.6
139.6	70°	207.2	301.8	450.4	549.5	711.6	828.7	914.3	999.9	1040.4
94.6	72.5°	121.6	225.2	355.8	472.9	612.5	711.6	774.7	842.3	869.3
45.0	75°	85.6	171.2	279.3	391.9	495.4	576.5	635.1	693.6	720.6
22.5	77.5°	45.0	126.1	220.7	315.3	387.3	454.9	513.5	558.5	576.5
18.0	80°	27.0	90.1	180.2	247.7	297.3	355.8	414.4	445.9	441.4
13.5	82.5°	18.0	72.1	130.6	180.2	216.2	261.2	301.8	324.3	324.3
9.0	85°	13.5	49.5	90.1	139.6	144.1	180.2	189.2	211.7	216.2
9.0	87.5°	9.0	31.5	49.5	81.1	76.6	94.6	99.1	112.6	121.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
54413.4
54638.6
56165.4
56692.4
55872.7
54327.8
51828.0
47472.6
42153.3
35852.2
30136.6
24146.2
18862.9
13534.7
8823.4
5949.8
4224.8
3125.8
2513.3
2130.4
1887.2
1734.1
1626.0
1535.9
1468.3
1409.8
1310.7
1184.6
1031.4
860.3
711.6
572.0
436.9
319.8
211.7
117.1
0.0

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