

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: P637634

Luminaire Tested: **IFLD-L-SA8C-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637634
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-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46938.8 lumens
Efficiency: N/A
Efficacy: 111.7 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



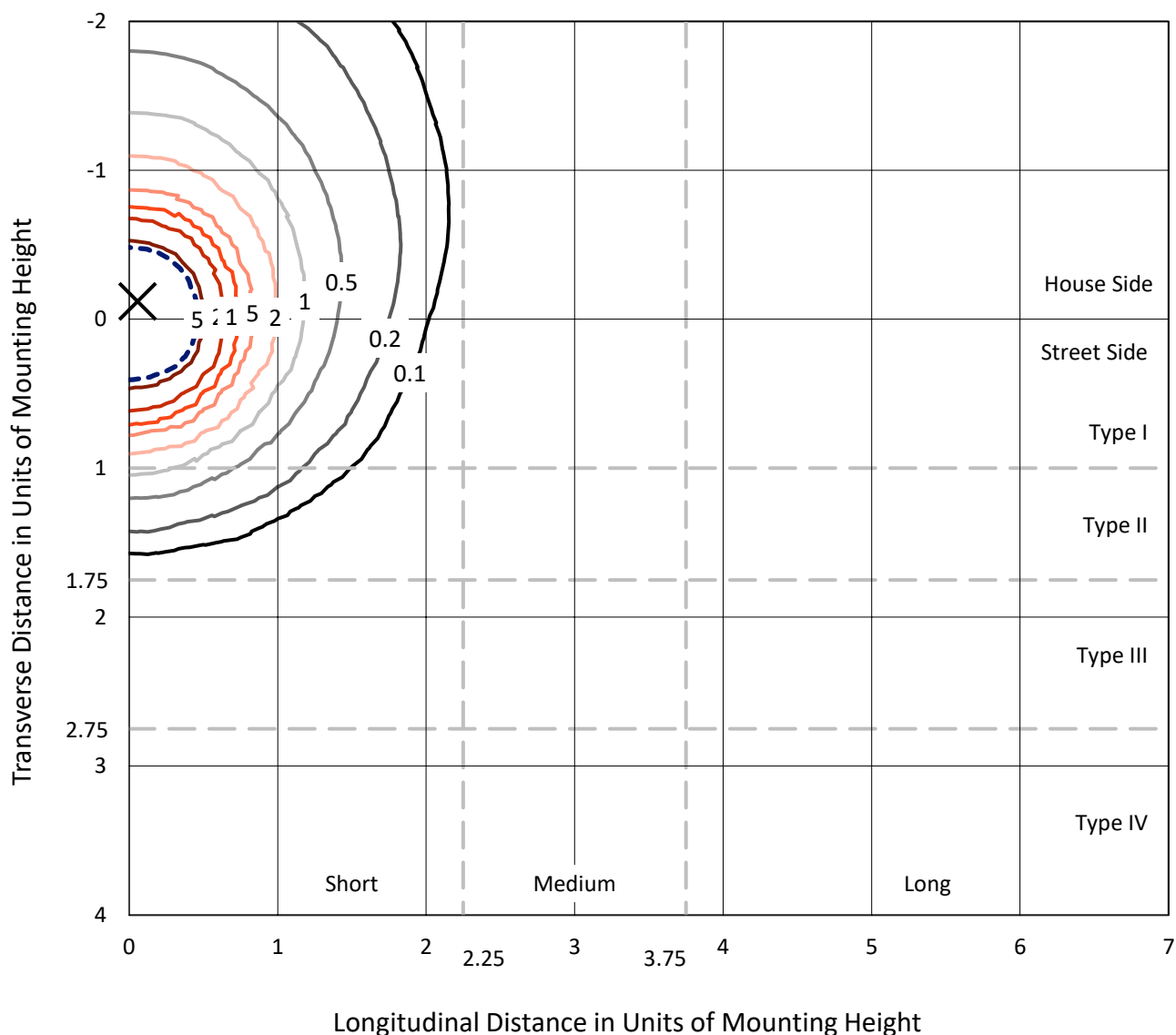
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



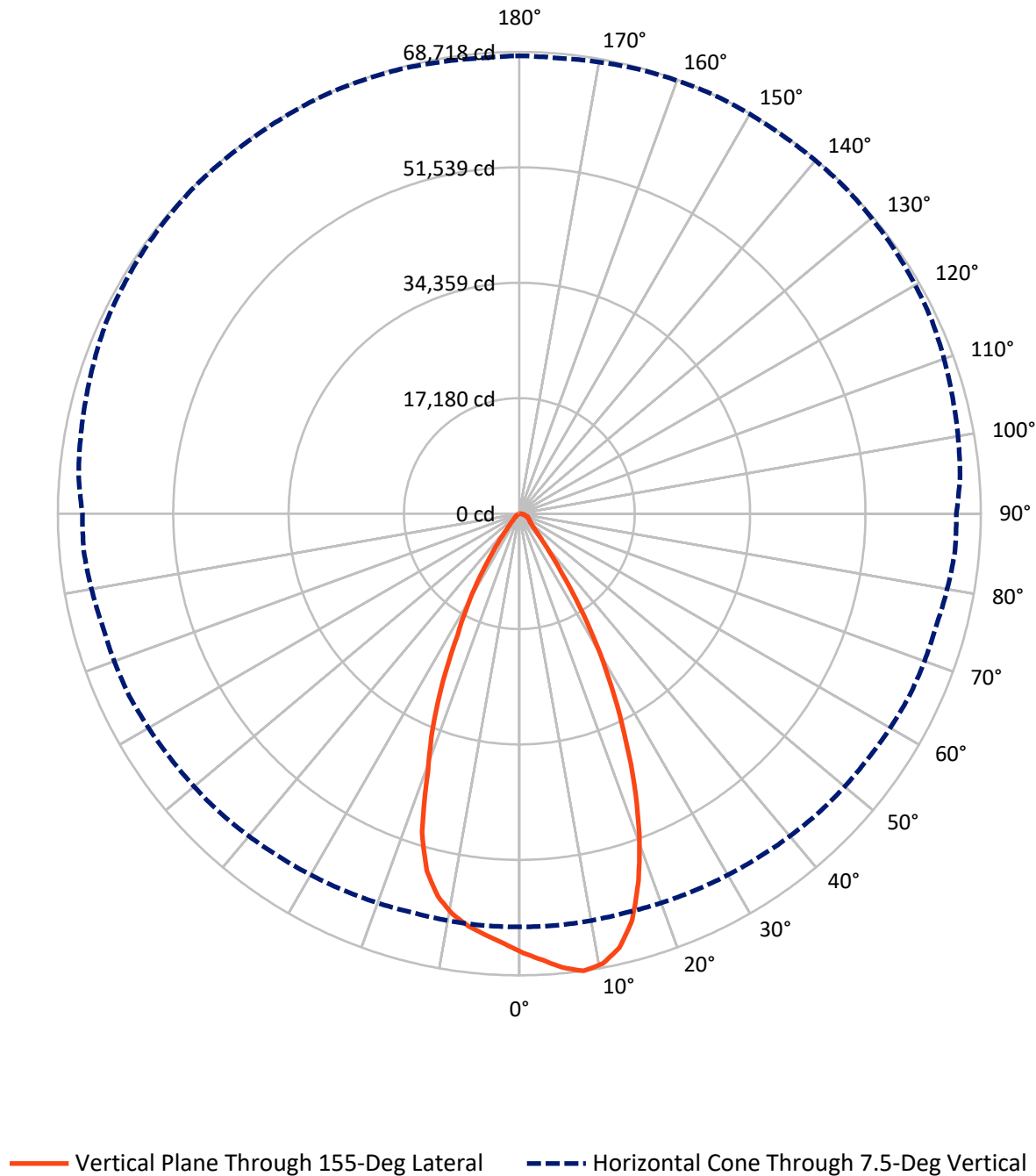
Based on 20 foot mounting height. Maximum calculated value = 166.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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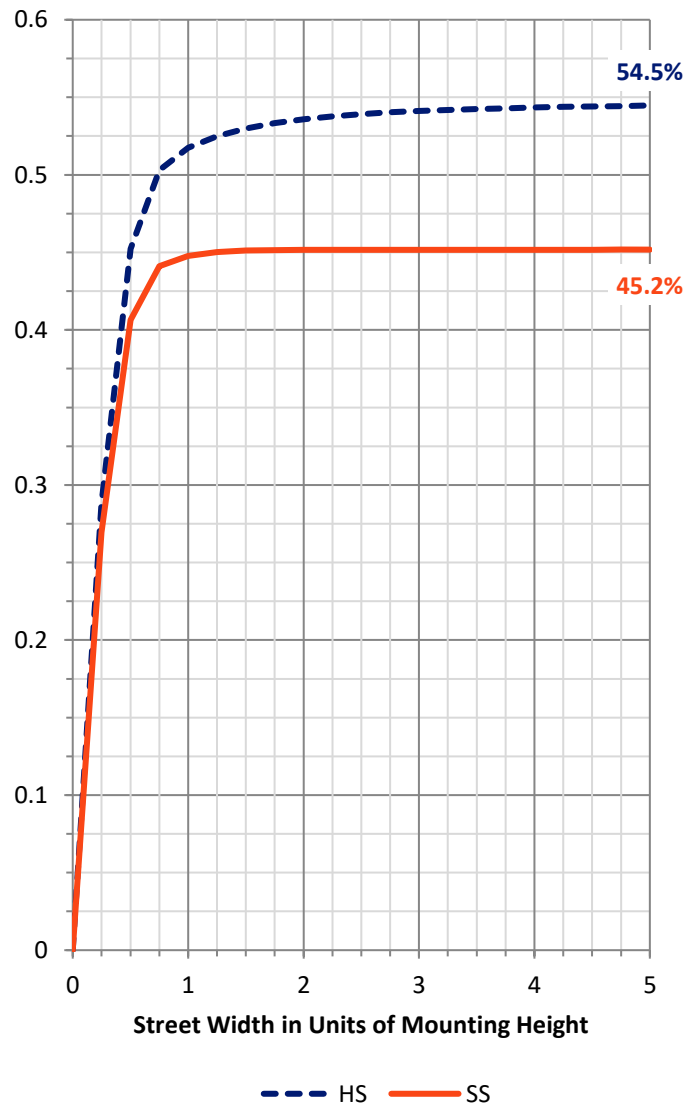
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25911.9	0.0	25911.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	21026.9	0.0	21026.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	46938.8	0.0	46938.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6235.3	13.3
10°-20°	16168.2	34.4
20°-30°	14814.5	31.6
30°-40°	5985.1	12.8
40°-50°	1755.7	3.7
50°-60°	981.7	2.1
60°-70°	596.2	1.3
70°-80°	303.0	0.6
80°-90°	99.1	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°	46938.8	100.0
0°-180°	46938.8	100.0

Coefficient of Utilization



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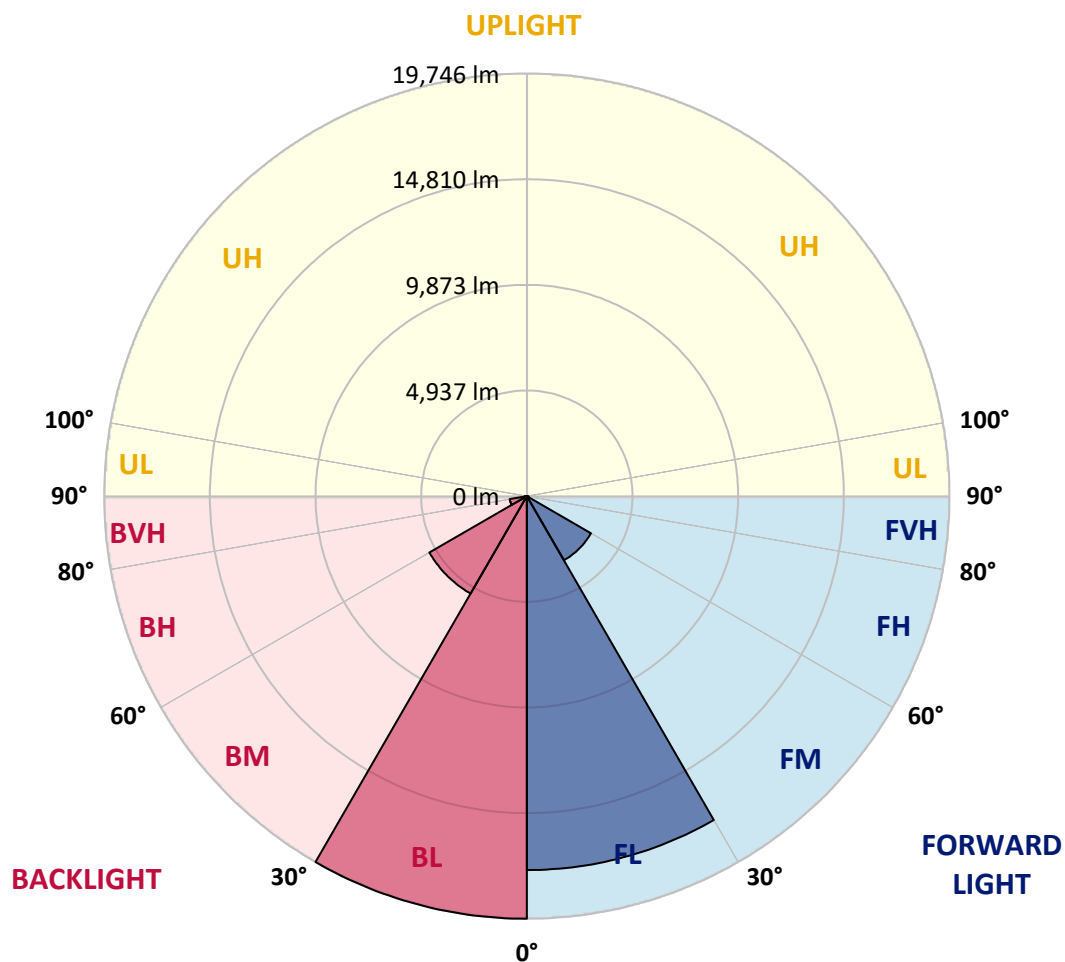
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	17471.8	37.2			
FM	(30°-60°)	3462.6	7.4			
FH	(60°-80°)	83.9	0.2			G0/660
FVH	(80°-90°)	8.6	0.0			G0/10
BL	(0°-30°)	19746.2	42.1	B5		
BM	(30°-60°)	5259.9	11.2	B4/8500		
BH	(60°-80°)	815.3	1.7	B2/1000		G2/1000
BVH	(80°-90°)	90.5	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°	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4
2.5°	63971.3	64187.8	63754.8	64041.6	64263.5	64794.0	64837.3	65021.3	65086.3	65568.0
5°	62758.8	62926.6	62574.8	62959.1	63273.0	63743.9	64106.6	64615.4	64896.8	65465.1
7.5°	61497.7	61535.6	61465.2	61871.2	62342.1	62991.6	63440.8	64106.6	64279.8	65091.7
10°	59971.4	59695.3	59830.6	60426.0	61129.7	62125.6	62434.1	63099.8	63408.4	64236.5
12.5°	57535.7	57676.4	57508.6	58266.4	58851.0	59982.2	60306.9	60978.1	61568.1	62298.8
15°	54104.1	54022.9	54363.9	54953.9	55587.2	56485.7	57010.7	57741.4	58190.6	58948.4
17.5°	46391.2	46667.3	48074.5	49552.2	50851.2	51901.2	52529.1	53135.3	53460.0	54282.7
20°	40063.9	39717.5	39906.9	40740.5	44437.3	46044.8	46705.1	46851.3	46986.6	47636.1
22.5°	32989.7	32876.0	33509.3	34445.6	35322.5	39030.1	39928.6	39587.6	39869.1	40480.7
25°	24497.3	25071.1	25634.0	27430.9	28567.6	30386.2	32091.2	32242.7	32345.6	32729.9
27.5°	19939.9	19739.7	19728.8	20232.2	21910.1	23425.6	24876.2	25211.8	25152.3	25520.3
30°	15674.8	15609.9	15382.5	15501.6	15333.8	16681.6	17363.6	18743.8	18668.0	18678.8
32.5°	11306.9	11063.3	10971.3	11149.9	10976.7	10852.2	11447.6	13006.4	12979.4	13087.6
35°	6841.5	6809.0	6884.8	7041.8	6695.4	6684.5	6809.0	8275.8	8454.4	8627.6
37.5°	3778.0	3745.5	3805.0	4384.2	4270.5	4167.7	4200.2	4974.2	5488.4	5618.3
40°	2489.8	2484.4	2527.7	2630.5	2825.4	2787.5	2803.7	3150.1	3637.3	3750.9
42.5°	1667.1	1672.5	1699.5	1818.6	1845.7	2040.5	2008.1	2089.3	2543.9	2641.3
45°	1331.5	1326.1	1342.3	1288.2	1320.7	1520.9	1542.6	1548.0	1937.7	1997.2
47.5°	1050.0	1050.0	1066.3	995.9	979.7	1104.2	1217.8	1234.1	1548.0	1629.2
50°	736.1	736.1	817.3	784.8	822.7	860.6	985.1	1001.3	1266.5	1353.1
52.5°	541.3	552.1	562.9	568.3	692.8	687.4	795.6	871.4	958.0	1109.6
55°	411.4	422.2	395.1	422.2	514.2	573.7	595.4	703.6	763.2	931.0
57.5°	270.6	297.7	276.0	324.8	346.4	443.8	476.3	579.1	617.0	763.2
60°	37.9	43.3	70.4	227.3	243.6	292.3	368.1	460.1	498.0	622.4
62.5°	5.4	5.4	16.2	37.9	162.4	194.9	276.0	319.3	368.1	465.5
65°	0.0	0.0	5.4	10.8	32.5	113.7	140.7	173.2	254.4	335.6
67.5°	0.0	0.0	5.4	10.8	16.2	37.9	59.5	113.7	146.1	232.7
70°	0.0	0.0	5.4	10.8	16.2	21.7	32.5	43.3	86.6	135.3
72.5°	0.0	0.0	5.4	10.8	16.2	21.7	27.1	32.5	37.9	86.6
75°	0.0	0.0	5.4	10.8	16.2	27.1	32.5	32.5	32.5	37.9
77.5°	0.0	0.0	5.4	10.8	21.7	32.5	37.9	32.5	27.1	27.1
80°	0.0	0.0	5.4	16.2	27.1	37.9	43.3	32.5	21.7	16.2
82.5°	0.0	0.0	5.4	16.2	27.1	37.9	43.3	37.9	21.7	16.2
85°	0.0	0.0	5.4	16.2	21.7	27.1	43.3	37.9	21.7	10.8
87.5°	0.0	0.0	0.0	5.4	5.4	10.8	21.7	16.2	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°
65389.4	0°	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4	65389.4
65557.1	2.5°	66044.3	66287.8	66715.4	66834.5	67202.6	66780.4	66547.7	66569.3	66065.9
65394.8	5°	66044.3	66601.8	67348.7	67705.9	67976.6	67954.9	67895.4	67743.8	67375.8
65070.0	7.5°	65871.1	66780.4	67808.8	68285.1	68609.8	68582.8	68718.1	68474.5	68025.3
64490.9	10°	65313.6	66103.8	67370.4	67760.1	68285.1	68295.9	68128.1	68176.8	67375.8
62374.6	12.5°	63559.9	64176.9	65286.5	65730.4	66369.0	66471.9	66287.8	66217.5	65459.7
58905.1	15°	60166.2	60523.5	61638.4	62082.3	62715.5	62628.9	62813.0	62737.2	62071.4
54217.8	17.5°	55202.9	55316.6	56485.7	56859.1	57454.5	57687.3	57411.2	57763.0	57189.3
47749.8	20°	48085.3	48697.0	50012.2	50586.0	50932.4	51349.1	50986.5	51381.6	50710.4
39901.5	22.5°	40865.0	41227.6	42418.4	43246.5	43890.6	43971.8	43836.5	44112.5	43208.6
32984.3	25°	32978.8	33579.6	34521.4	35603.9	36237.2	36626.9	36275.1	36453.7	36307.6
25579.8	27.5°	26012.9	26548.7	27257.7	28064.2	29016.8	29525.6	29244.2	29547.3	28832.8
19073.9	30°	19090.2	19360.8	20161.9	21017.0	22061.7	22678.7	22705.8	23014.3	22592.1
13363.7	32.5°	13461.1	13699.2	14191.8	14760.1	15756.0	16443.4	16335.2	16378.5	16118.7
8708.8	35°	8752.1	9071.5	9423.3	9693.9	10294.7	11052.5	10992.9	10938.8	10760.2
5726.5	37.5°	5851.0	5975.5	6170.3	6413.9	6803.6	7279.9	7436.9	7242.0	7166.3
3864.6	40°	3956.6	4173.1	4303.0	4487.0	4671.1	5071.6	5179.8	5141.9	5066.2
2706.3	42.5°	2809.1	2976.9	3139.3	3317.9	3415.3	3664.3	3875.4	3815.9	3783.4
2056.8	45°	2132.6	2284.1	2473.5	2608.9	2706.3	2852.4	3052.7	3074.3	3025.6
1650.8	47.5°	1710.4	1845.7	1997.2	2165.0	2278.7	2370.7	2543.9	2608.9	2576.4
1391.0	50°	1450.6	1553.4	1699.5	1867.3	1991.8	2073.0	2224.6	2294.9	2273.3
1163.7	52.5°	1234.1	1358.6	1493.9	1634.6	1786.2	1867.3	2008.1	2110.9	2094.7
963.4	55°	1023.0	1185.4	1326.1	1466.8	1640.0	1721.2	1845.7	1981.0	1953.9
817.3	57.5°	893.1	1028.4	1174.5	1309.8	1493.9	1602.1	1715.8	1856.5	1851.1
671.2	60°	746.9	882.3	1044.6	1158.3	1353.1	1504.7	1607.5	1753.7	1764.5
508.8	62.5°	595.4	763.2	887.7	1044.6	1223.2	1401.9	1499.3	1645.4	1699.5
389.7	65°	443.8	627.9	768.6	925.6	1093.3	1293.6	1380.2	1526.3	1580.5
281.5	67.5°	330.2	470.9	649.5	784.8	974.3	1147.5	1250.3	1385.6	1423.5
167.8	70°	249.0	362.6	541.3	660.3	855.2	995.9	1098.8	1201.6	1250.3
113.7	72.5°	146.1	270.6	427.6	568.3	736.1	855.2	931.0	1012.2	1044.6
54.1	75°	102.8	205.7	335.6	470.9	595.4	692.8	763.2	833.5	866.0
27.1	77.5°	54.1	151.6	265.2	378.9	465.5	546.7	617.0	671.2	692.8
21.7	80°	32.5	108.3	216.5	297.7	357.2	427.6	498.0	535.8	530.4
16.2	82.5°	21.7	86.6	157.0	216.5	259.8	313.9	362.6	389.7	389.7
10.8	85°	16.2	59.5	108.3	167.8	173.2	216.5	227.3	254.4	259.8
10.8	87.5°	10.8	37.9	59.5	97.4	92.0	113.7	119.1	135.3	146.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
65389.4
65660.0
67494.9
68128.1
67143.0
65286.5
62282.5
57048.6
50656.3
43084.1
36215.6
29016.8
22667.9
16264.8
10603.2
7150.0
5077.0
3756.3
3020.2
2560.1
2267.9
2083.8
1953.9
1845.7
1764.5
1694.1
1575.1
1423.5
1239.5
1033.8
855.2
687.4
525.0
384.3
254.4
140.7
0.0

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