

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: P637548

Luminaire Tested: **IFLD-L-SA8D-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637548
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38572.8 lumens
Efficiency: N/A
Efficacy: 79.0 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): 488.3
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



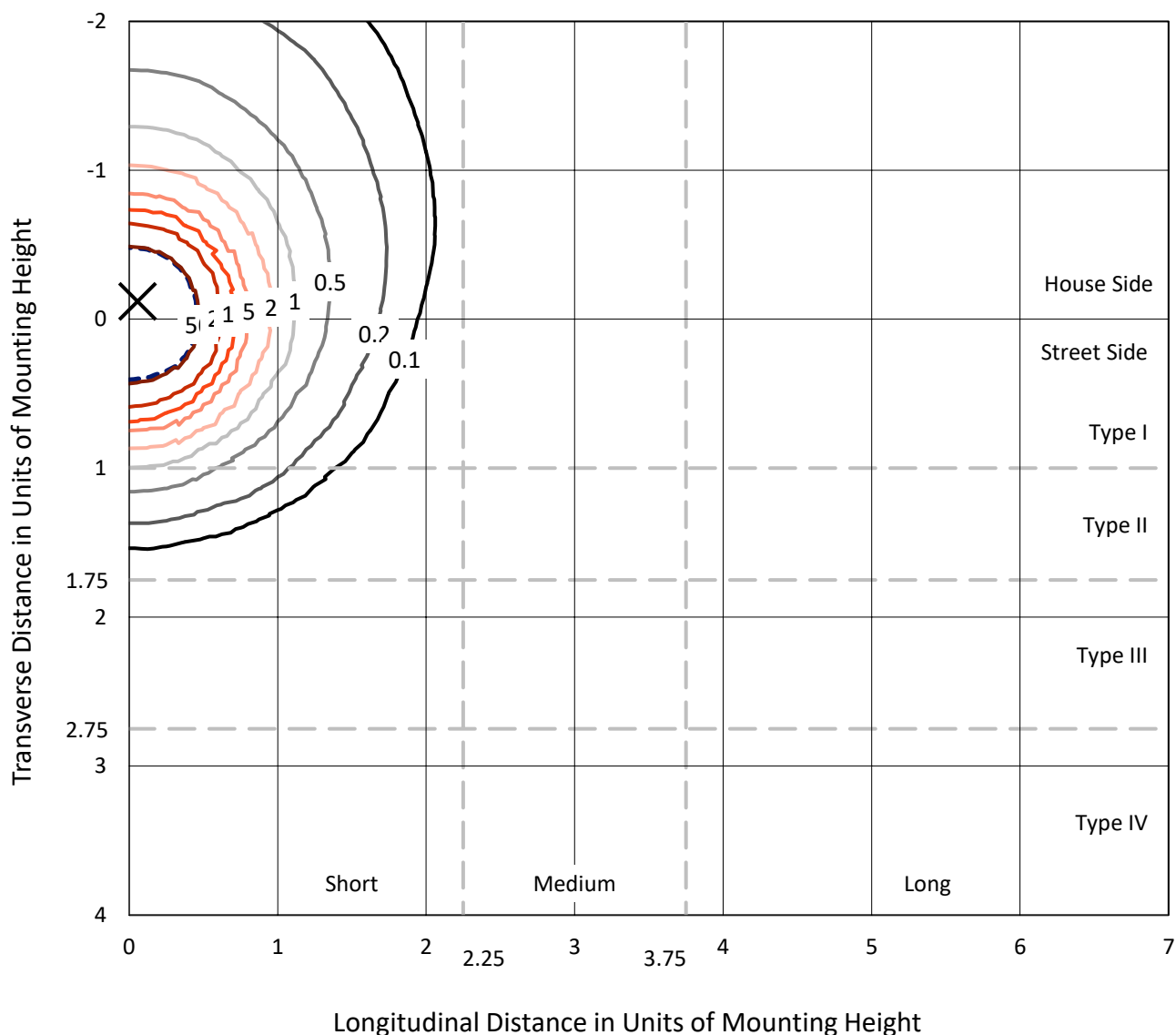
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

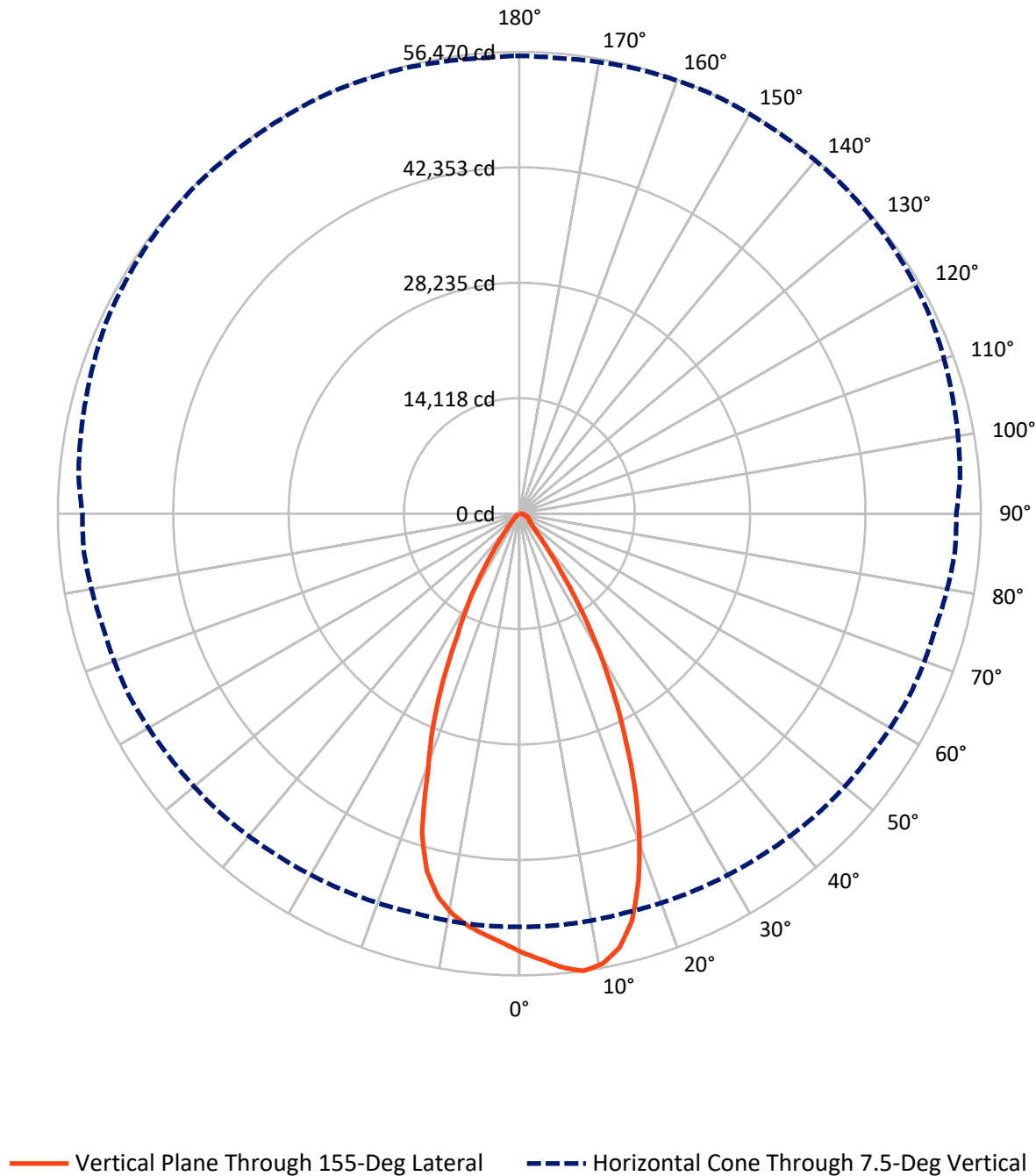


Based on 20 foot mounting height. Maximum calculated value = 136.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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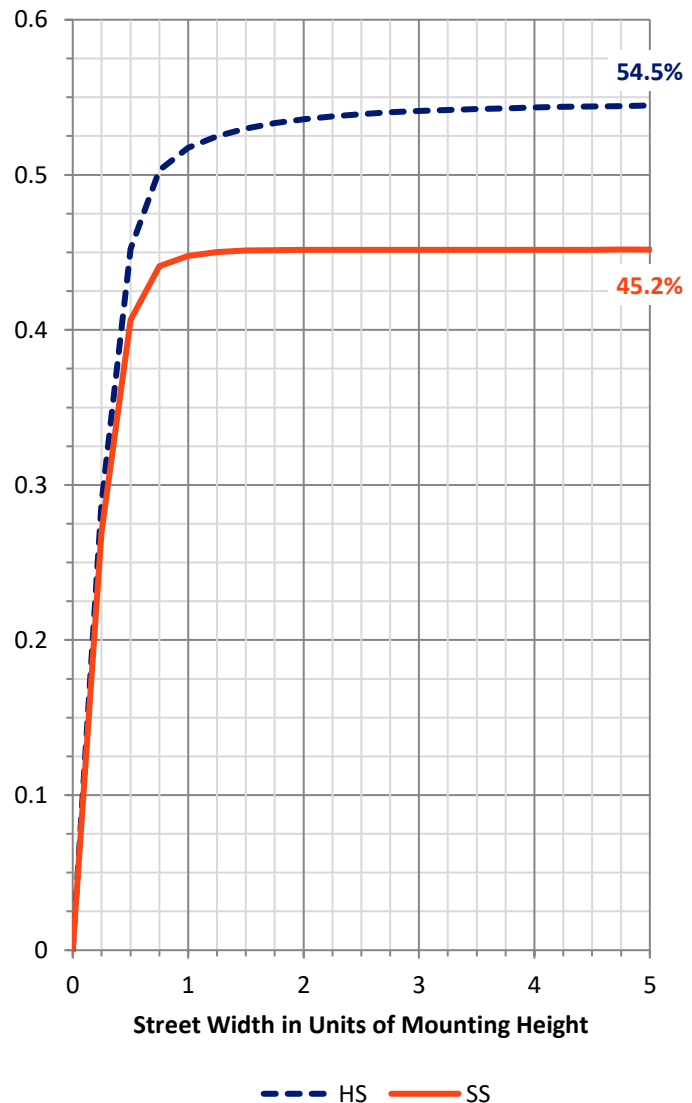
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21293.6	0.0	21293.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17279.2	0.0	17279.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	38572.8	0.0	38572.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5124.0	13.3
10°-20°	13286.5	34.4
20°-30°	12174.1	31.6
30°-40°	4918.4	12.8
40°-50°	1442.8	3.7
50°-60°	806.7	2.1
60°-70°	490.0	1.3
70°-80°	248.9	0.6
80°-90°	81.4	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°	38572.8	100.0
0°-180°	38572.8	100.0

Coefficient of Utilization



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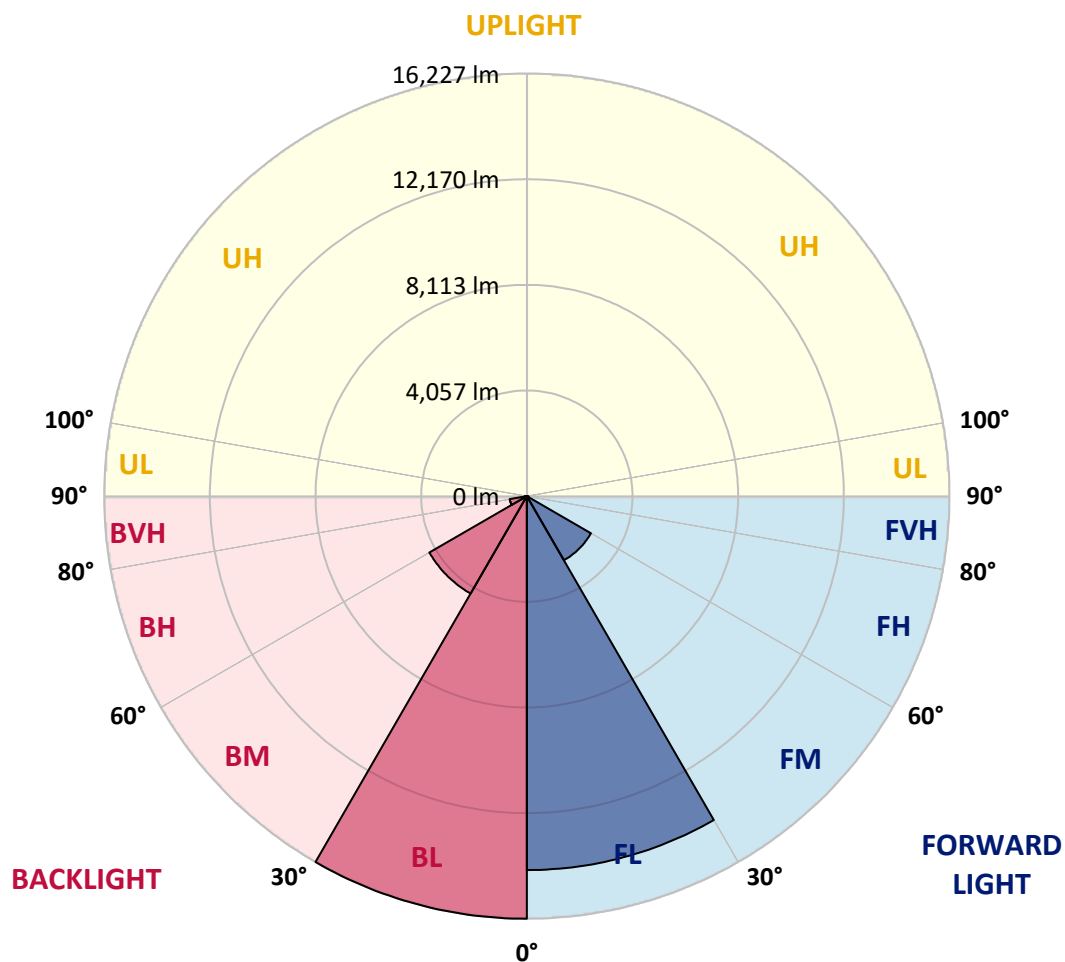
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14357.8	37.2			
FM	(30°-60°)	2845.5	7.4			
FH	(60°-80°)	68.9	0.2			G0/660
FVH	(80°-90°)	7.0	0.0			G0/10
BL	(0°-30°)	16226.8	42.1	B5		
BM	(30°-60°)	4322.4	11.2	B3/5000		
BH	(60°-80°)	670.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	74.4	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°	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0
2.5°	52569.6	52747.5	52391.7	52627.5	52809.8	53245.7	53281.3	53432.5	53485.9	53881.8
5°	51573.3	51711.2	51422.1	51737.9	51995.9	52382.8	52680.8	53098.9	53330.2	53797.2
7.5°	50536.9	50568.1	50510.3	50843.8	51230.8	51764.6	52133.7	52680.8	52823.2	53490.3
10°	49282.6	49055.8	49167.0	49656.3	50234.5	51052.9	51306.4	51853.5	52107.0	52787.6
12.5°	47281.1	47396.7	47258.8	47881.6	48361.9	49291.5	49558.4	50109.9	50594.8	51195.2
15°	44461.1	44394.4	44674.6	45159.4	45679.8	46418.2	46849.6	47450.1	47819.3	48442.0
17.5°	38122.9	38349.7	39506.2	40720.4	41787.9	42650.8	43166.8	43665.0	43931.8	44607.9
20°	32923.3	32638.6	32794.3	33479.3	36517.2	37838.2	38380.9	38500.9	38612.1	39145.9
22.5°	27109.9	27016.5	27536.9	28306.4	29026.9	32073.7	32812.1	32531.9	32763.2	33265.8
25°	20131.2	20602.6	21065.2	22541.9	23476.0	24970.5	26371.5	26496.1	26580.6	26896.4
27.5°	16386.0	16221.5	16212.6	16626.2	18005.1	19250.5	20442.5	20718.3	20669.4	20971.8
30°	12881.1	12827.7	12640.9	12738.8	12600.9	13708.4	14268.8	15403.0	15340.8	15349.7
32.5°	9291.6	9091.5	9015.9	9162.7	9020.3	8918.0	9407.3	10688.3	10666.0	10755.0
35°	5622.1	5595.4	5657.7	5786.7	5502.0	5493.1	5595.4	6800.8	6947.6	7089.9
37.5°	3104.6	3077.9	3126.9	3602.8	3509.4	3424.9	3451.6	4087.6	4510.2	4616.9
40°	2046.0	2041.6	2077.2	2161.7	2321.8	2290.7	2304.0	2588.7	2989.0	3082.4
42.5°	1370.0	1374.4	1396.6	1494.5	1516.7	1676.9	1650.2	1716.9	2090.5	2170.6
45°	1094.2	1089.7	1103.1	1058.6	1085.3	1249.9	1267.6	1272.1	1592.3	1641.3
47.5°	862.9	862.9	876.2	818.4	805.1	907.4	1000.8	1014.1	1272.1	1338.8
50°	604.9	604.9	671.6	644.9	676.1	707.2	809.5	822.9	1040.8	1112.0
52.5°	444.8	453.7	462.6	467.0	569.3	564.9	653.8	716.1	787.3	911.8
55°	338.0	346.9	324.7	346.9	422.5	471.5	489.3	578.2	627.2	765.0
57.5°	222.4	244.6	226.8	266.9	284.7	364.7	391.4	475.9	507.1	627.2
60°	31.1	35.6	57.8	186.8	200.2	240.2	302.5	378.1	409.2	511.5
62.5°	4.4	4.4	13.3	31.1	133.4	160.1	226.8	262.4	302.5	382.5
65°	0.0	0.0	4.4	8.9	26.7	93.4	115.6	142.3	209.1	275.8
67.5°	0.0	0.0	4.4	8.9	13.3	31.1	48.9	93.4	120.1	191.3
70°	0.0	0.0	4.4	8.9	13.3	17.8	26.7	35.6	71.2	111.2
72.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	26.7	31.1	71.2
75°	0.0	0.0	4.4	8.9	13.3	22.2	26.7	26.7	26.7	31.1
77.5°	0.0	0.0	4.4	8.9	17.8	26.7	31.1	26.7	22.2	22.2
80°	0.0	0.0	4.4	13.3	22.2	31.1	35.6	26.7	17.8	13.3
82.5°	0.0	0.0	4.4	13.3	22.2	31.1	35.6	31.1	17.8	13.3
85°	0.0	0.0	4.4	13.3	17.8	22.2	35.6	31.1	17.8	8.9
87.5°	0.0	0.0	0.0	4.4	4.4	8.9	17.8	13.3	8.9	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°
53735.0	0°	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0	53735.0
53872.9	2.5°	54273.2	54473.3	54824.7	54922.6	55225.0	54878.1	54686.8	54704.6	54291.0
53739.4	5°	54273.2	54731.3	55345.1	55638.7	55861.1	55843.3	55794.4	55669.8	55367.4
53472.6	7.5°	54130.8	54878.1	55723.2	56114.6	56381.5	56359.2	56470.4	56270.3	55901.1
52996.6	10°	53672.7	54322.1	55362.9	55683.2	56114.6	56123.5	55985.6	56025.6	55367.4
51257.5	12.5°	52231.6	52738.6	53650.5	54015.2	54540.0	54624.6	54473.3	54415.5	53792.8
48406.4	15°	49442.8	49736.3	50652.6	51017.3	51537.7	51466.6	51617.8	51555.5	51008.4
44554.5	17.5°	45364.0	45457.5	46418.2	46725.1	47214.4	47405.6	47178.8	47467.9	46996.4
39239.3	20°	39515.1	40017.7	41098.5	41570.0	41854.7	42197.1	41899.1	42223.8	41672.3
32789.9	22.5°	33581.6	33879.6	34858.1	35538.7	36068.0	36134.7	36023.5	36250.3	35507.5
27105.5	25°	27101.0	27594.7	28368.7	29258.2	29778.6	30098.9	29809.8	29956.5	29836.5
21020.7	27.5°	21376.6	21816.9	22399.6	23062.3	23845.1	24263.2	24032.0	24281.0	23693.9
15674.4	30°	15687.7	15910.1	16568.4	17271.2	18129.6	18636.7	18658.9	18912.4	18565.5
10981.8	32.5°	11061.9	11257.6	11662.4	12129.4	12947.8	13512.7	13423.7	13459.3	13245.8
7156.7	35°	7192.2	7454.7	7743.8	7966.2	8459.9	9082.6	9033.7	8989.2	8842.4
4705.9	37.5°	4808.2	4910.5	5070.6	5270.8	5591.0	5982.4	6111.4	5951.3	5889.0
3175.8	40°	3251.4	3429.3	3536.1	3687.3	3838.5	4167.7	4256.6	4225.5	4163.2
2223.9	42.5°	2308.5	2446.3	2579.8	2726.6	2806.6	3011.2	3184.7	3135.8	3109.1
1690.2	45°	1752.5	1877.0	2032.7	2143.9	2223.9	2344.0	2508.6	2526.4	2486.4
1356.6	47.5°	1405.5	1516.7	1641.3	1779.2	1872.6	1948.2	2090.5	2143.9	2117.2
1143.1	50°	1192.0	1276.5	1396.6	1534.5	1636.8	1703.5	1828.1	1885.9	1868.1
956.3	52.5°	1014.1	1116.4	1227.6	1343.3	1467.8	1534.5	1650.2	1734.7	1721.3
791.7	55°	840.7	974.1	1089.7	1205.4	1347.7	1414.4	1516.7	1627.9	1605.7
671.6	57.5°	733.9	845.1	965.2	1076.4	1227.6	1316.6	1410.0	1525.6	1521.2
551.5	60°	613.8	725.0	858.4	951.8	1112.0	1236.5	1321.0	1441.1	1450.0
418.1	62.5°	489.3	627.2	729.5	858.4	1005.2	1152.0	1232.1	1352.2	1396.6
320.2	65°	364.7	516.0	631.6	760.6	898.5	1063.0	1134.2	1254.3	1298.8
231.3	67.5°	271.3	387.0	533.7	644.9	800.6	943.0	1027.5	1138.7	1169.8
137.9	70°	204.6	298.0	444.8	542.6	702.8	818.4	902.9	987.4	1027.5
93.4	72.5°	120.1	222.4	351.4	467.0	604.9	702.8	765.0	831.8	858.4
44.5	75°	84.5	169.0	275.8	387.0	489.3	569.3	627.2	685.0	711.7
22.2	77.5°	44.5	124.5	217.9	311.4	382.5	449.2	507.1	551.5	569.3
17.8	80°	26.7	89.0	177.9	244.6	293.6	351.4	409.2	440.3	435.9
13.3	82.5°	17.8	71.2	129.0	177.9	213.5	258.0	298.0	320.2	320.2
8.9	85°	13.3	48.9	89.0	137.9	142.3	177.9	186.8	209.1	213.5
8.9	87.5°	8.9	31.1	48.9	80.1	75.6	93.4	97.9	111.2	120.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
53735.0
53957.4
55465.2
55985.6
55176.1
53650.5
51181.9
46880.8
41627.8
35405.2
29760.8
23845.1
18627.8
13365.9
8713.4
5875.7
4172.1
3086.8
2481.9
2103.9
1863.7
1712.4
1605.7
1516.7
1450.0
1392.2
1294.3
1169.8
1018.6
849.5
702.8
564.9
431.4
315.8
209.1
115.6
0.0

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