

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: P637642

Luminaire Tested: **IFLD-S-SA3B-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637642
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15983.7 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 122.4
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

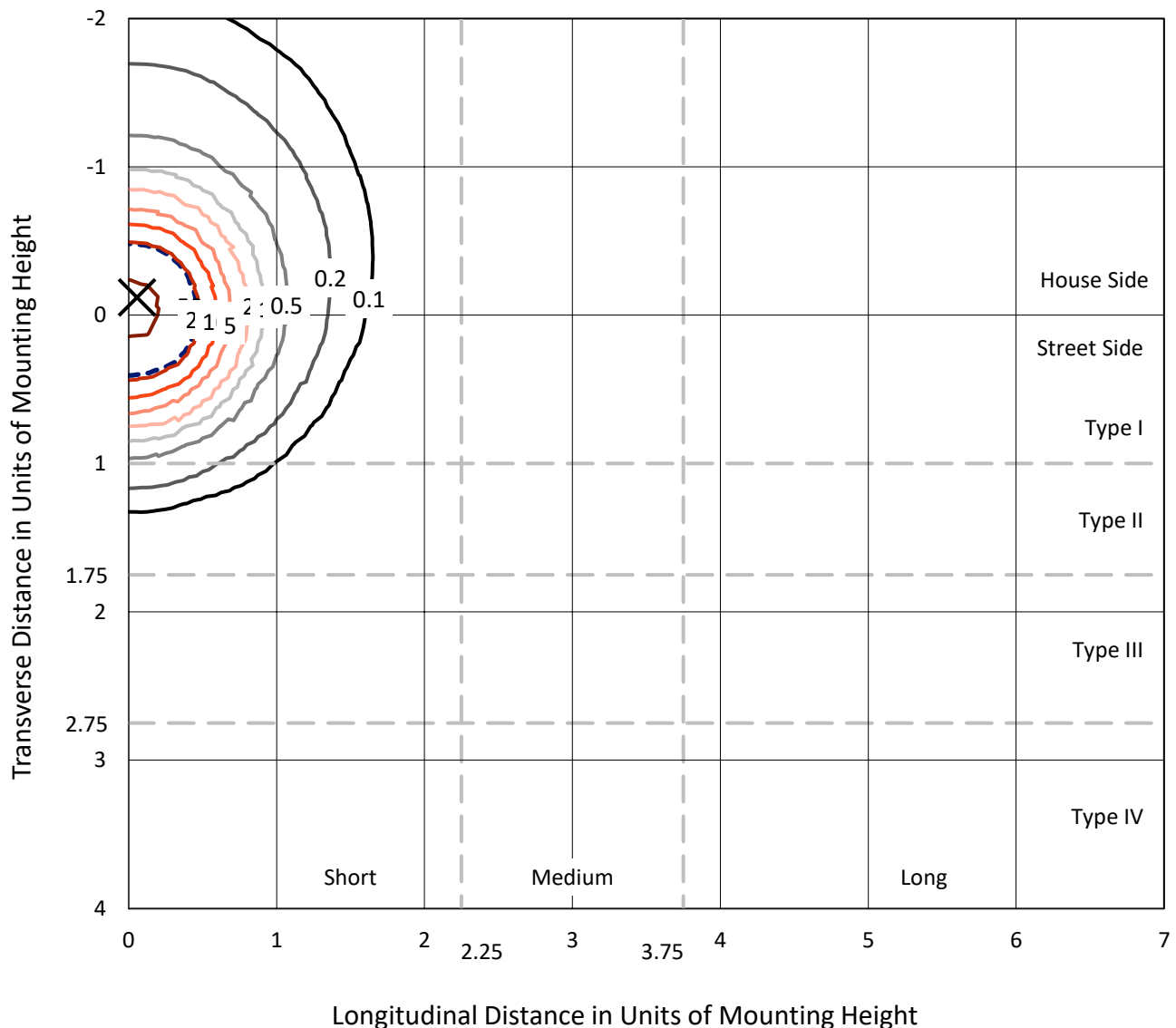


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Iso-Footcandle Lines of Horizontal Illumination

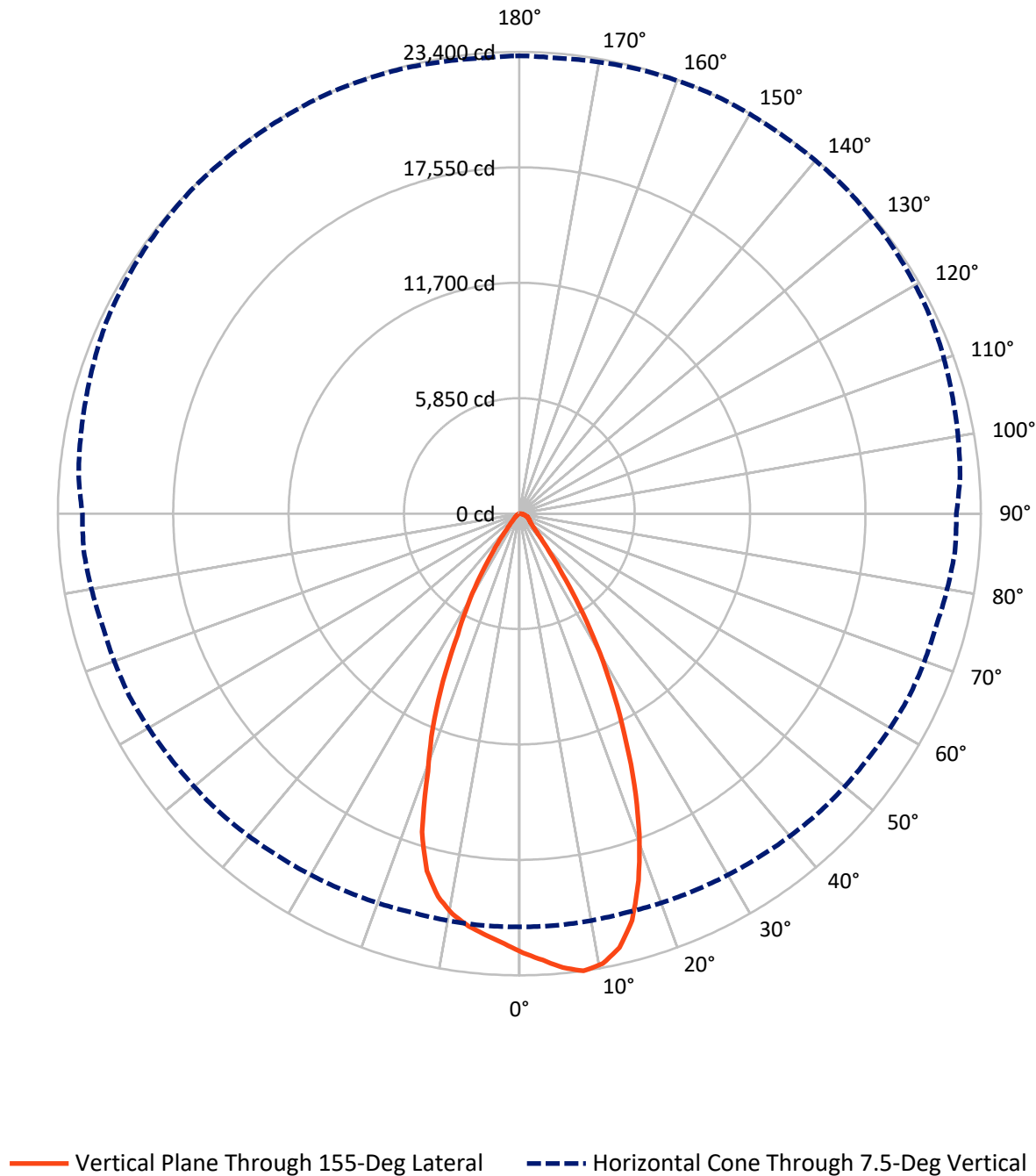
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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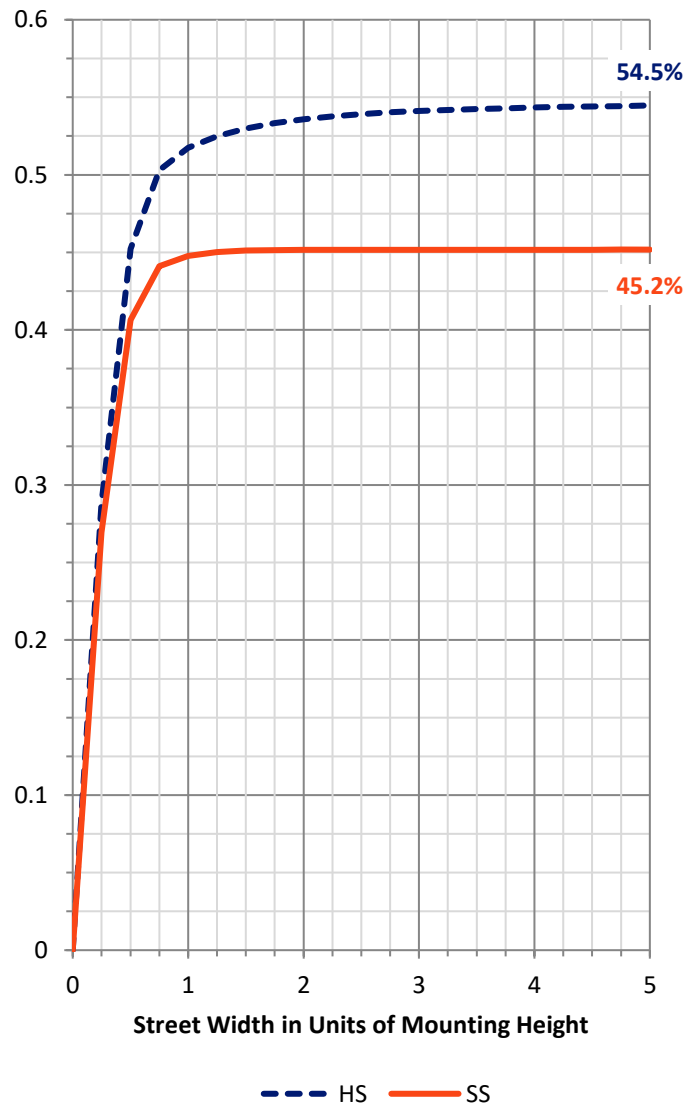
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8823.6	0.0	8823.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7160.1	0.0	7160.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	15983.7	0.0	15983.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2123.3	13.3
10°-20°	5505.6	34.4
20°-30°	5044.7	31.6
30°-40°	2038.0	12.8
40°-50°	597.9	3.7
50°-60°	334.3	2.1
60°-70°	203.0	1.3
70°-80°	103.2	0.6
80°-90°	33.7	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°	15983.7	100.0
0°-180°	15983.7	100.0

Coefficient of Utilization



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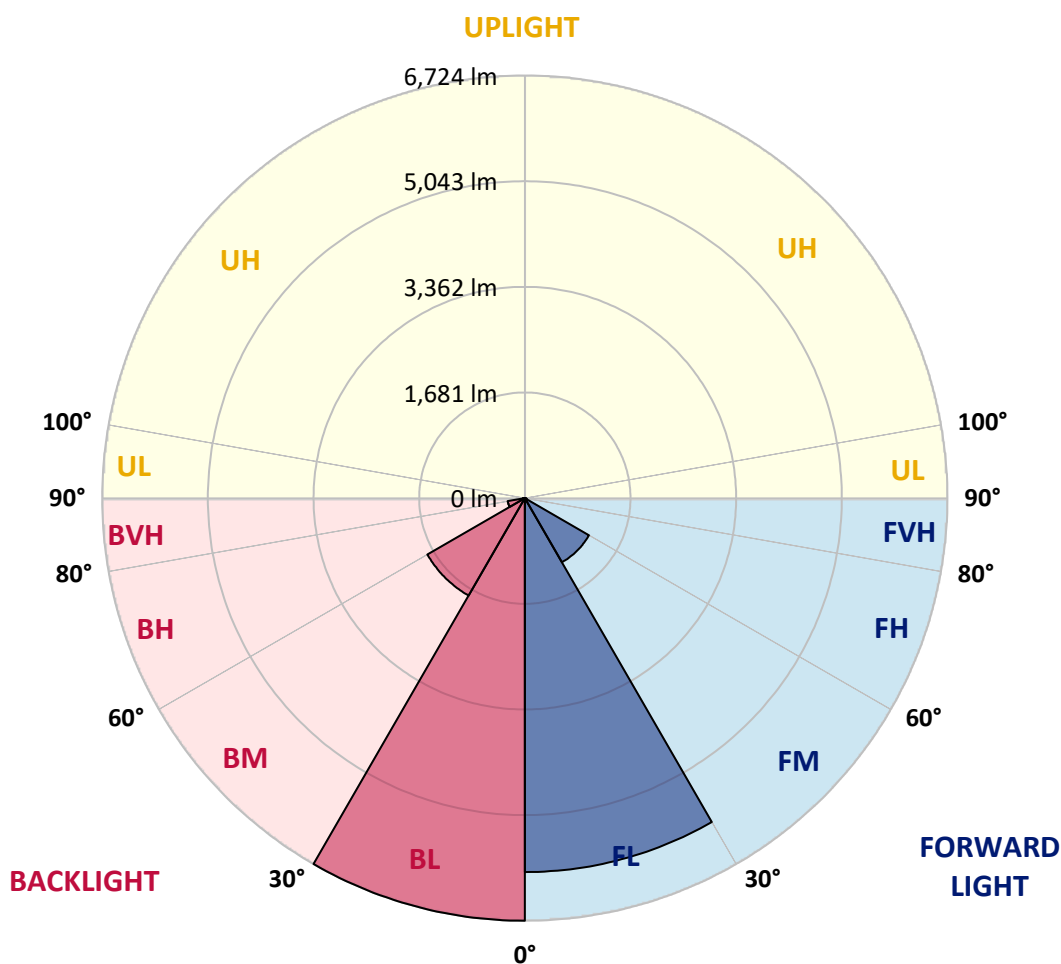
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5949.5	37.2			
FM	(30°-60°)	1179.1	7.4			
FH	(60°-80°)	28.6	0.2			G0/660
FVH	(80°-90°)	2.9	0.0			G0/10
BL	(0°-30°)	6724.0	42.1	B5		
BM	(30°-60°)	1791.1	11.2	B2/2500		
BH	(60°-80°)	277.6	1.7	B1/500		G1/500
BVH	(80°-90°)	30.8	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5
2.5°	21783.7	21857.4	21709.9	21807.6	21883.2	22063.8	22078.5	22141.2	22163.3	22327.4
5°	21370.8	21427.9	21308.1	21439.0	21545.9	21706.2	21829.7	22003.0	22098.8	22292.3
7.5°	20941.4	20954.3	20930.3	21068.5	21228.9	21450.0	21603.0	21829.7	21888.7	22165.2
10°	20421.6	20327.6	20373.7	20576.4	20816.0	21155.2	21260.2	21486.9	21592.0	21874.0
12.5°	19592.2	19640.1	19583.0	19841.0	20040.1	20425.3	20535.9	20764.4	20965.3	21214.1
15°	18423.7	18396.0	18512.1	18713.0	18928.7	19234.6	19413.4	19662.2	19815.2	20073.2
17.5°	15797.2	15891.2	16370.5	16873.6	17316.0	17673.5	17887.3	18093.8	18204.3	18484.5
20°	13642.7	13524.7	13589.2	13873.0	15131.9	15679.3	15904.1	15953.9	16000.0	16221.2
22.5°	11233.7	11195.0	11410.7	11729.5	12028.1	13290.6	13596.6	13480.5	13576.3	13784.6
25°	8341.9	8537.3	8728.9	9340.9	9727.9	10347.2	10927.8	10979.4	11014.4	11145.3
27.5°	6790.0	6721.8	6718.1	6889.5	7460.9	7977.0	8470.9	8585.2	8564.9	8690.2
30°	5337.6	5315.5	5238.1	5278.7	5221.5	5680.4	5912.7	6382.7	6356.9	6360.6
32.5°	3850.2	3767.3	3736.0	3796.8	3737.8	3695.4	3898.2	4429.0	4419.8	4456.6
35°	2329.7	2318.6	2344.4	2397.9	2279.9	2276.2	2318.6	2818.1	2878.9	2937.9
37.5°	1286.5	1275.4	1295.7	1492.9	1454.2	1419.2	1430.2	1693.8	1868.9	1913.1
40°	847.8	846.0	860.7	895.7	962.1	949.2	954.7	1072.7	1238.6	1277.3
42.5°	567.7	569.5	578.7	619.3	628.5	694.9	683.8	711.4	866.3	899.4
45°	453.4	451.6	457.1	438.7	449.7	517.9	525.3	527.1	659.8	680.1
47.5°	357.6	357.6	363.1	339.1	333.6	376.0	414.7	420.2	527.1	554.8
50°	250.7	250.7	278.3	267.3	280.2	293.1	335.4	341.0	431.3	460.8
52.5°	184.3	188.0	191.7	193.5	235.9	234.1	270.9	296.7	326.2	377.8
55°	140.1	143.8	134.5	143.8	175.1	195.4	202.7	239.6	259.9	317.0
57.5°	92.2	101.4	94.0	110.6	118.0	151.1	162.2	197.2	210.1	259.9
60°	12.9	14.7	24.0	77.4	82.9	99.5	125.3	156.7	169.6	212.0
62.5°	1.8	1.8	5.5	12.9	55.3	66.4	94.0	108.7	125.3	158.5
65°	0.0	0.0	1.8	3.7	11.1	38.7	47.9	59.0	86.6	114.3
67.5°	0.0	0.0	1.8	3.7	5.5	12.9	20.3	38.7	49.8	79.3
70°	0.0	0.0	1.8	3.7	5.5	7.4	11.1	14.7	29.5	46.1
72.5°	0.0	0.0	1.8	3.7	5.5	7.4	9.2	11.1	12.9	29.5
75°	0.0	0.0	1.8	3.7	5.5	9.2	11.1	11.1	11.1	12.9
77.5°	0.0	0.0	1.8	3.7	7.4	11.1	12.9	11.1	9.2	9.2
80°	0.0	0.0	1.8	5.5	9.2	12.9	14.7	11.1	7.4	5.5
82.5°	0.0	0.0	1.8	5.5	9.2	12.9	14.7	12.9	7.4	5.5
85°	0.0	0.0	1.8	5.5	7.4	9.2	14.7	12.9	7.4	3.7
87.5°	0.0	0.0	0.0	1.8	1.8	3.7	7.4	5.5	3.7	1.8
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°
22266.5	0°	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5	22266.5
22323.7	2.5°	22489.6	22572.5	22718.1	22758.7	22884.0	22740.2	22661.0	22668.3	22496.9
22268.4	5°	22489.6	22679.4	22933.7	23055.4	23147.5	23140.2	23119.9	23068.3	22943.0
22157.8	7.5°	22430.6	22740.2	23090.4	23252.6	23363.2	23354.0	23400.1	23317.1	23164.1
21960.6	10°	22240.7	22509.8	22941.1	23073.8	23252.6	23256.3	23199.2	23215.7	22943.0
21239.9	12.5°	21643.6	21853.7	22231.5	22382.7	22600.1	22635.2	22572.5	22548.5	22290.5
20058.5	15°	20487.9	20609.6	20989.3	21140.4	21356.0	21326.6	21389.2	21363.4	21136.7
18462.4	17.5°	18797.8	18836.5	19234.6	19361.8	19564.6	19643.8	19549.8	19669.6	19474.2
16259.9	20°	16374.1	16582.4	17030.3	17225.7	17343.6	17485.5	17362.0	17496.6	17268.0
13587.4	22.5°	13915.4	14038.9	14444.4	14726.4	14945.7	14973.4	14927.3	15021.3	14713.5
11231.9	25°	11230.0	11434.6	11755.3	12123.9	12339.6	12472.3	12352.5	12413.3	12363.5
8710.5	27.5°	8858.0	9040.4	9281.9	9556.5	9880.9	10054.1	9958.3	10061.5	9818.2
6495.1	30°	6500.6	6592.8	6865.6	7156.8	7512.5	7722.6	7731.8	7836.9	7693.1
4550.6	32.5°	4583.8	4664.9	4832.6	5026.1	5365.3	5599.4	5562.5	5577.2	5488.8
2965.6	35°	2980.3	3089.0	3208.8	3301.0	3505.6	3763.6	3743.3	3724.9	3664.1
1950.0	37.5°	1992.4	2034.8	2101.1	2184.1	2316.8	2479.0	2532.4	2466.1	2440.3
1316.0	40°	1347.3	1421.0	1465.3	1527.9	1590.6	1727.0	1763.9	1750.9	1725.1
921.6	42.5°	956.6	1013.7	1069.0	1129.8	1163.0	1247.8	1319.7	1299.4	1288.3
700.4	45°	726.2	777.8	842.3	888.4	921.6	971.3	1039.5	1046.9	1030.3
562.1	47.5°	582.4	628.5	680.1	737.2	775.9	807.3	866.3	888.4	877.3
473.7	50°	494.0	529.0	578.7	635.9	678.3	705.9	757.5	781.5	774.1
396.3	52.5°	420.2	462.6	508.7	556.6	608.2	635.9	683.8	718.8	713.3
328.1	55°	348.3	403.6	451.6	499.5	558.5	586.1	628.5	674.6	665.4
278.3	57.5°	304.1	350.2	400.0	446.0	508.7	545.6	584.3	632.2	630.3
228.5	60°	254.3	300.4	355.7	394.4	460.8	512.4	547.4	597.2	600.9
173.3	62.5°	202.7	259.9	302.3	355.7	416.5	477.4	510.5	560.3	578.7
132.7	65°	151.1	213.8	261.7	315.2	372.3	440.5	470.0	519.8	538.2
95.8	67.5°	112.4	160.4	221.2	267.3	331.8	390.7	425.8	471.8	484.7
57.1	70°	84.8	123.5	184.3	224.9	291.2	339.1	374.2	409.2	425.8
38.7	72.5°	49.8	92.2	145.6	193.5	250.7	291.2	317.0	344.7	355.7
18.4	75°	35.0	70.0	114.3	160.4	202.7	235.9	259.9	283.8	294.9
9.2	77.5°	18.4	51.6	90.3	129.0	158.5	186.2	210.1	228.5	235.9
7.4	80°	11.1	36.9	73.7	101.4	121.6	145.6	169.6	182.5	180.6
5.5	82.5°	7.4	29.5	53.5	73.7	88.5	106.9	123.5	132.7	132.7
3.7	85°	5.5	20.3	36.9	57.1	59.0	73.7	77.4	86.6	88.5
3.7	87.5°	3.7	12.9	20.3	33.2	31.3	38.7	40.5	46.1	49.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22266.5
22358.7
22983.5
23199.2
22863.7
22231.5
21208.6
19426.3
17249.6
14671.1
12332.2
9880.9
7718.9
5538.5
3610.6
2434.7
1728.8
1279.1
1028.5
871.8
772.3
709.6
665.4
628.5
600.9
576.9
536.3
484.7
422.1
352.0
291.2
234.1
178.8
130.9
86.6
47.9
0.0

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