

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: P637738

Luminaire Tested: **IFLD-M-SA4A-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637738
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12751.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 128.6
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



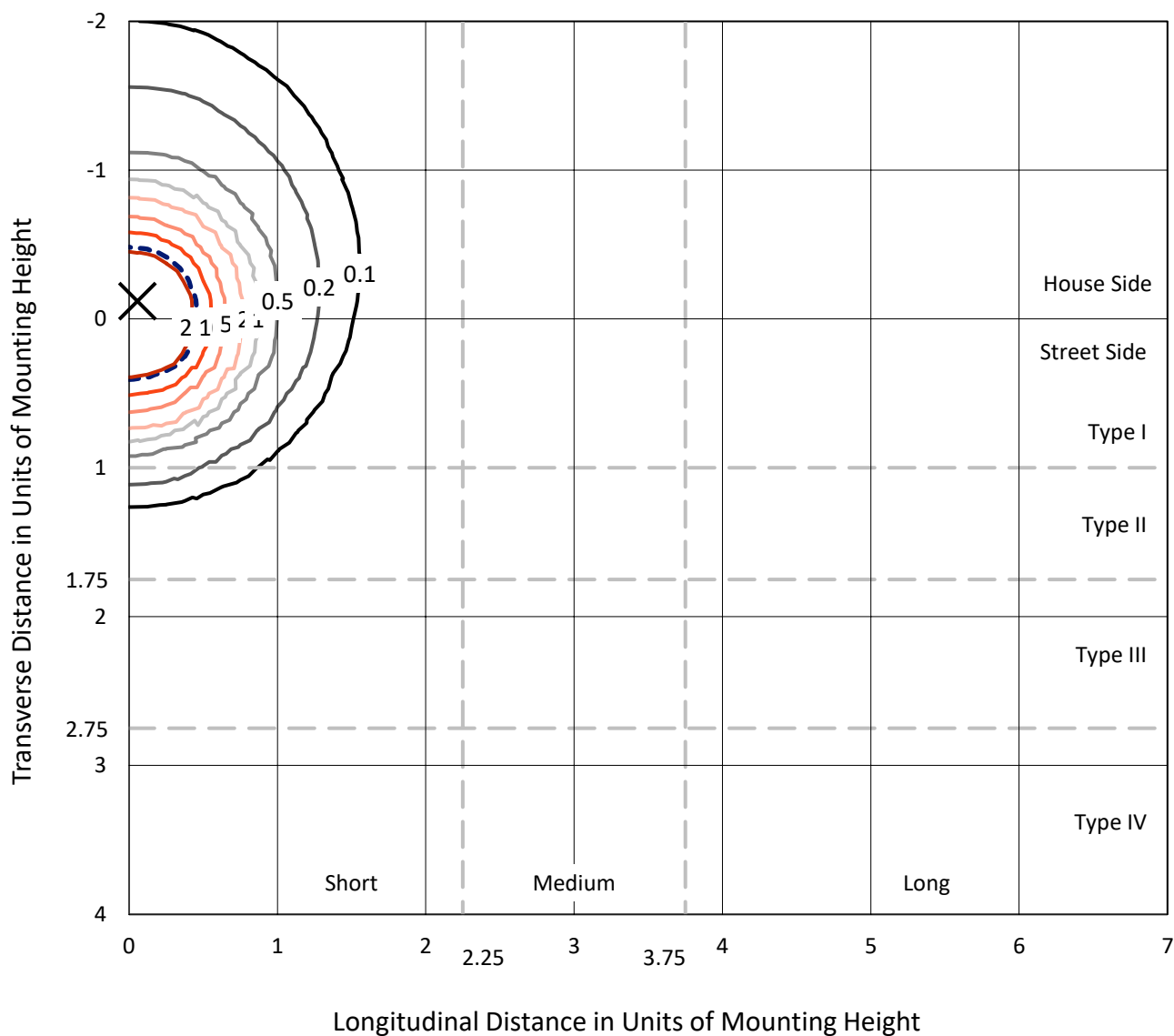
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

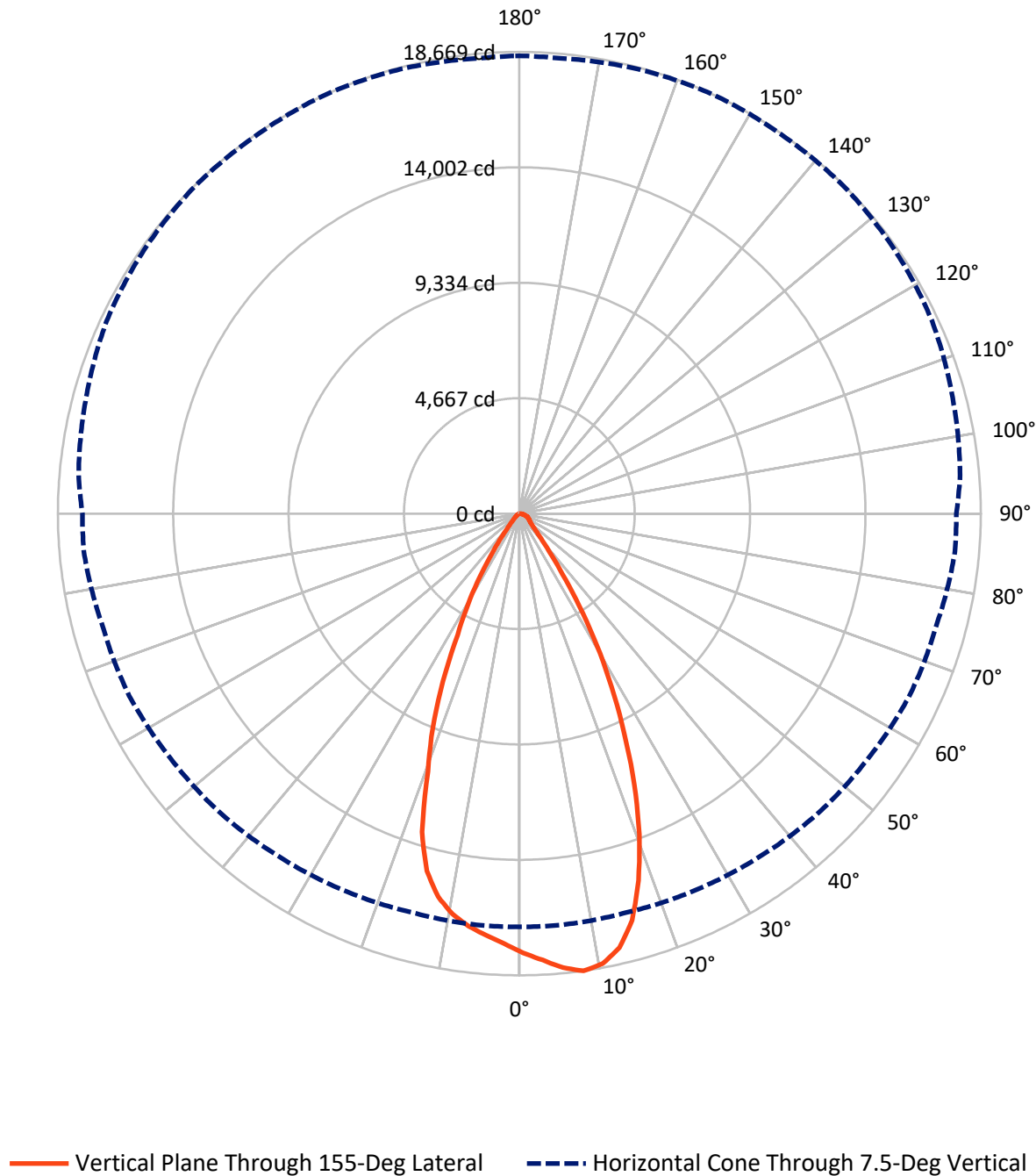


Based on 20 foot mounting height. Maximum calculated value = 45.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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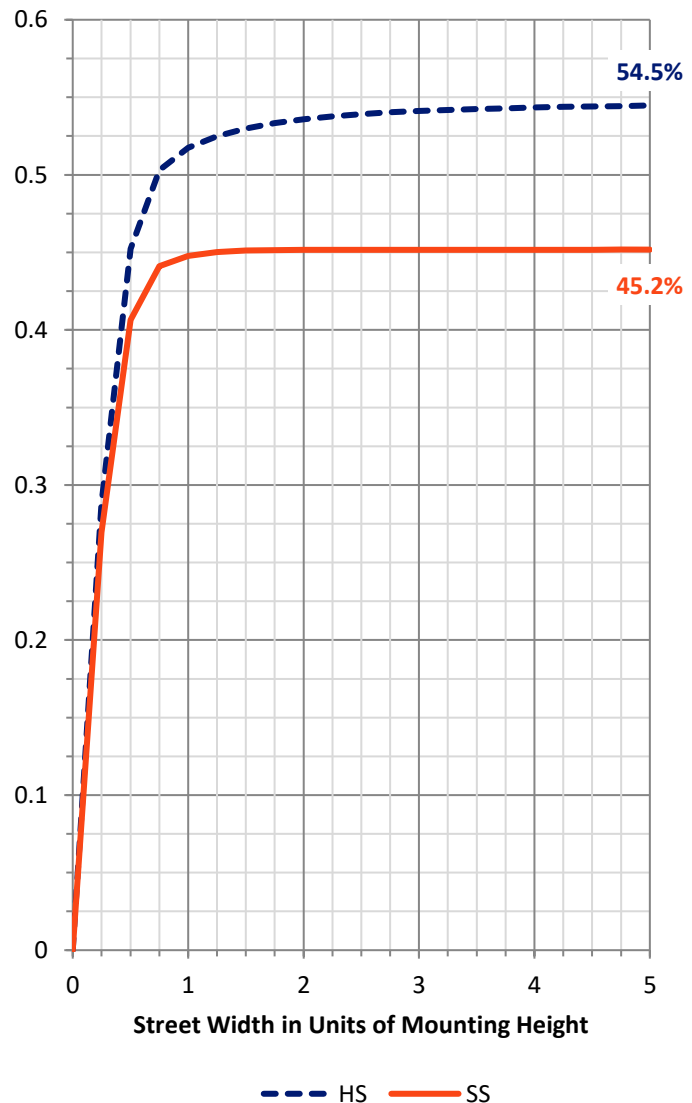
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7039.5	0.0	7039.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5712.4	0.0	5712.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	12751.9	0.0	12751.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1694.0	13.3
10°-20°	4392.4	34.4
20°-30°	4024.7	31.6
30°-40°	1626.0	12.8
40°-50°	477.0	3.7
50°-60°	266.7	2.1
60°-70°	162.0	1.3
70°-80°	82.3	0.6
80°-90°	26.9	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°	12751.9	100.0
0°-180°	12751.9	100.0

Coefficient of Utilization



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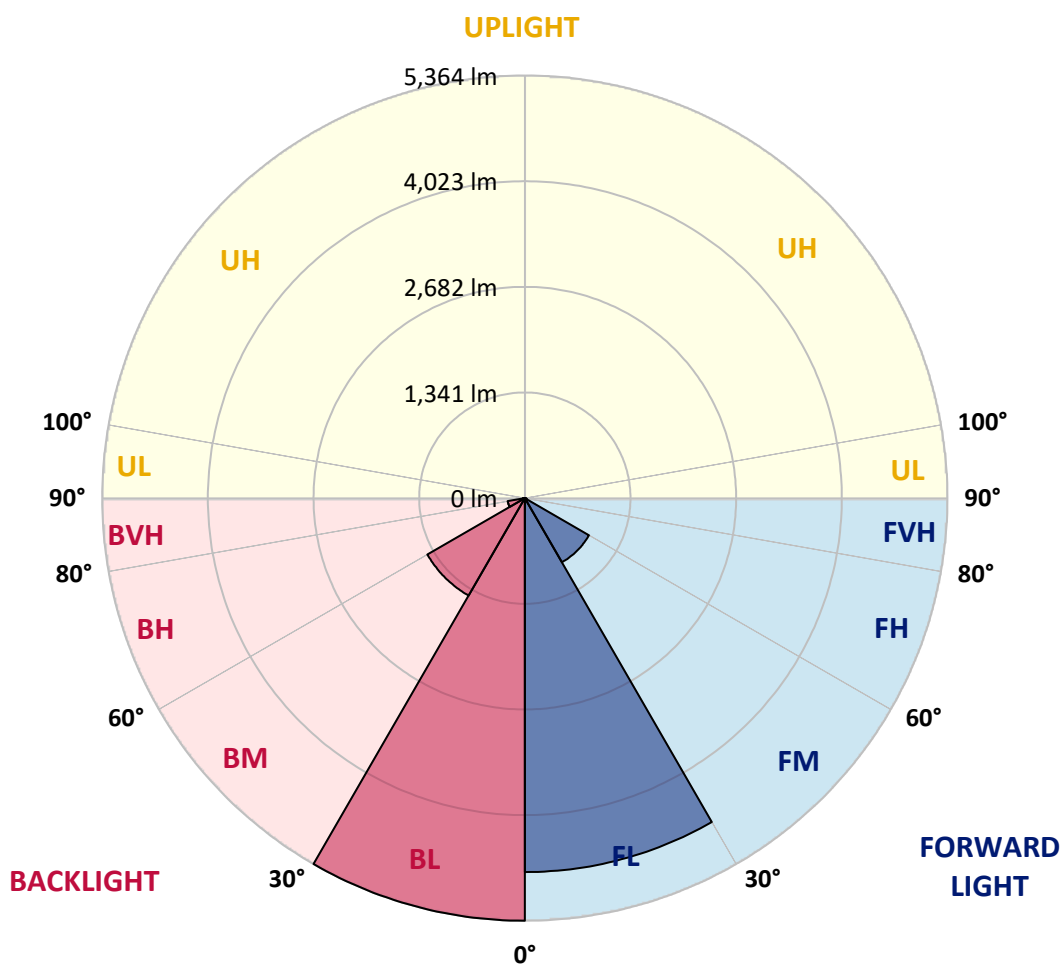
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4746.6	37.2			
FM	(30°-60°)	940.7	7.4			
FH	(60°-80°)	22.8	0.2			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	5364.5	42.1	B5		
BM	(30°-60°)	1429.0	11.2	B2/2500		
BH	(60°-80°)	221.5	1.7	B1/500		G1/500
BVH	(80°-90°)	24.6	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°	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4
2.5°	17379.1	17437.9	17320.3	17398.2	17458.5	17602.6	17614.4	17664.4	17682.0	17812.9
5°	17049.8	17095.3	16999.8	17104.2	17189.4	17317.4	17415.9	17554.1	17630.6	17785.0
7.5°	16707.1	16717.4	16698.3	16808.6	16936.5	17113.0	17235.0	17415.9	17462.9	17683.5
10°	16292.5	16217.5	16254.2	16416.0	16607.1	16877.7	16961.5	17142.4	17226.2	17451.2
12.5°	15630.8	15669.0	15623.4	15829.3	15988.1	16295.4	16383.6	16566.0	16726.3	16924.8
15°	14698.5	14676.5	14769.1	14929.4	15101.4	15345.5	15488.1	15686.7	15808.7	16014.6
17.5°	12603.1	12678.1	13060.4	13461.9	13814.8	14100.0	14270.6	14435.3	14523.5	14747.0
20°	10884.2	10790.1	10841.6	11068.0	12072.3	12509.0	12688.4	12728.1	12764.9	12941.3
22.5°	8962.3	8931.5	9103.5	9357.9	9596.1	10603.3	10847.4	10754.8	10831.3	10997.4
25°	6655.2	6811.1	6964.0	7452.2	7761.0	8255.1	8718.2	8759.4	8787.3	8891.8
27.5°	5417.1	5362.7	5359.8	5496.5	5952.3	6364.1	6758.1	6849.3	6833.1	6933.1
30°	4258.4	4240.7	4179.0	4211.3	4165.8	4531.9	4717.2	5092.1	5071.5	5074.5
32.5°	3071.7	3005.6	2980.6	3029.1	2982.1	2948.2	3110.0	3533.5	3526.1	3555.5
35°	1858.6	1849.8	1870.4	1913.0	1818.9	1816.0	1849.8	2248.3	2296.8	2343.9
37.5°	1026.4	1017.5	1033.7	1191.1	1160.2	1132.2	1141.1	1351.3	1491.0	1526.3
40°	676.4	674.9	686.7	714.6	767.6	757.3	761.7	855.8	988.1	1019.0
42.5°	452.9	454.4	461.7	494.1	501.4	554.4	545.5	567.6	691.1	717.6
45°	361.7	360.3	364.7	350.0	358.8	413.2	419.1	420.5	526.4	542.6
47.5°	285.3	285.3	289.7	270.6	266.1	300.0	330.8	335.3	420.5	442.6
50°	200.0	200.0	222.0	213.2	223.5	233.8	267.6	272.0	344.1	367.6
52.5°	147.0	150.0	152.9	154.4	188.2	186.7	216.2	236.7	260.3	301.4
55°	111.8	114.7	107.3	114.7	139.7	155.9	161.7	191.2	207.3	252.9
57.5°	73.5	80.9	75.0	88.2	94.1	120.6	129.4	157.3	167.6	207.3
60°	10.3	11.8	19.1	61.8	66.2	79.4	100.0	125.0	135.3	169.1
62.5°	1.5	1.5	4.4	10.3	44.1	52.9	75.0	86.8	100.0	126.5
65°	0.0	0.0	1.5	2.9	8.8	30.9	38.2	47.1	69.1	91.2
67.5°	0.0	0.0	1.5	2.9	4.4	10.3	16.2	30.9	39.7	63.2
70°	0.0	0.0	1.5	2.9	4.4	5.9	8.8	11.8	23.5	36.8
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	8.8	10.3	23.5
75°	0.0	0.0	1.5	2.9	4.4	7.4	8.8	8.8	8.8	10.3
77.5°	0.0	0.0	1.5	2.9	5.9	8.8	10.3	8.8	7.4	7.4
80°	0.0	0.0	1.5	4.4	7.4	10.3	11.8	8.8	5.9	4.4
82.5°	0.0	0.0	1.5	4.4	7.4	10.3	11.8	10.3	5.9	4.4
85°	0.0	0.0	1.5	4.4	5.9	7.4	11.8	10.3	5.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	5.9	4.4	2.9	1.5
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°
17764.4	0°	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4	17764.4
17810.0	2.5°	17942.3	18008.5	18124.6	18157.0	18257.0	18142.3	18079.1	18084.9	17948.2
17765.9	5°	17942.3	18093.8	18296.7	18393.7	18467.3	18461.4	18445.2	18404.0	18304.0
17677.6	7.5°	17895.3	18142.3	18421.7	18551.1	18639.3	18631.9	18668.7	18602.5	18480.5
17520.3	10°	17743.8	17958.5	18302.6	18408.4	18551.1	18554.0	18508.4	18521.7	18304.0
16945.4	12.5°	17267.4	17435.0	17736.4	17857.0	18030.5	18058.5	18008.5	17989.4	17783.5
16002.8	15°	16345.4	16442.5	16745.4	16865.9	17038.0	17014.5	17064.5	17043.9	16863.0
14729.4	17.5°	14997.0	15027.9	15345.5	15447.0	15608.7	15671.9	15597.0	15692.5	15536.7
12972.2	20°	13063.4	13229.5	13586.9	13742.7	13836.8	13950.1	13851.5	13958.9	13776.6
10840.1	22.5°	11101.8	11200.3	11523.8	11748.8	11923.8	11945.9	11909.1	11984.1	11738.5
8960.9	25°	8959.4	9122.6	9378.5	9672.6	9844.6	9950.5	9854.9	9903.4	9863.7
6949.3	27.5°	7066.9	7212.5	7405.1	7624.2	7883.0	8021.3	7944.8	8027.1	7833.0
5181.8	30°	5186.2	5259.8	5477.4	5709.7	5993.5	6161.1	6168.5	6252.3	6137.6
3630.5	32.5°	3657.0	3721.7	3855.5	4009.9	4280.5	4467.2	4437.8	4449.6	4379.0
2365.9	35°	2377.7	2464.5	2560.0	2633.6	2796.8	3002.6	2986.5	2971.8	2923.2
1555.7	37.5°	1589.5	1623.4	1676.3	1742.5	1848.3	1977.7	2020.4	1967.4	1946.9
1049.9	40°	1074.9	1133.7	1169.0	1219.0	1269.0	1377.8	1407.2	1396.9	1376.3
735.2	42.5°	763.2	808.7	852.9	901.4	927.8	995.5	1052.8	1036.7	1027.8
558.8	45°	579.4	620.5	672.0	708.8	735.2	774.9	829.3	835.2	822.0
448.5	47.5°	464.7	501.4	542.6	588.2	619.1	644.1	691.1	708.8	699.9
377.9	50°	394.1	422.0	461.7	507.3	541.1	563.2	604.4	623.5	617.6
316.1	52.5°	335.3	369.1	405.8	444.1	485.2	507.3	545.5	573.5	569.1
261.7	55°	277.9	322.0	360.3	398.5	445.5	467.6	501.4	538.2	530.8
222.0	57.5°	242.6	279.4	319.1	355.8	405.8	435.3	466.1	504.4	502.9
182.3	60°	202.9	239.7	283.8	314.7	367.6	408.8	436.7	476.4	479.4
138.2	62.5°	161.7	207.3	241.2	283.8	332.3	380.8	407.3	447.0	461.7
105.9	65°	120.6	170.6	208.8	251.4	297.0	351.4	375.0	414.7	429.4
76.5	67.5°	89.7	127.9	176.5	213.2	264.7	311.7	339.7	376.4	386.7
45.6	70°	67.6	98.5	147.0	179.4	232.3	270.6	298.5	326.4	339.7
30.9	72.5°	39.7	73.5	116.2	154.4	200.0	232.3	252.9	275.0	283.8
14.7	75°	27.9	55.9	91.2	127.9	161.7	188.2	207.3	226.4	235.3
7.4	77.5°	14.7	41.2	72.1	102.9	126.5	148.5	167.6	182.3	188.2
5.9	80°	8.8	29.4	58.8	80.9	97.0	116.2	135.3	145.6	144.1
4.4	82.5°	5.9	23.5	42.6	58.8	70.6	85.3	98.5	105.9	105.9
2.9	85°	4.4	16.2	29.4	45.6	47.1	58.8	61.8	69.1	70.6
2.9	87.5°	2.9	10.3	16.2	26.5	25.0	30.9	32.3	36.8	39.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17764.4
17837.9
18336.4
18508.4
18240.8
17736.4
16920.4
15498.4
13761.8
11704.7
9838.7
7883.0
6158.2
4418.7
2880.6
1942.5
1379.3
1020.5
820.5
695.5
616.1
566.1
530.8
501.4
479.4
460.2
427.9
386.7
336.7
280.9
232.3
186.7
142.6
104.4
69.1
38.2
0.0

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