

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: P637580

Luminaire Tested: **IFLD-S-SA2C-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637580
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12157.6 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 108.2
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



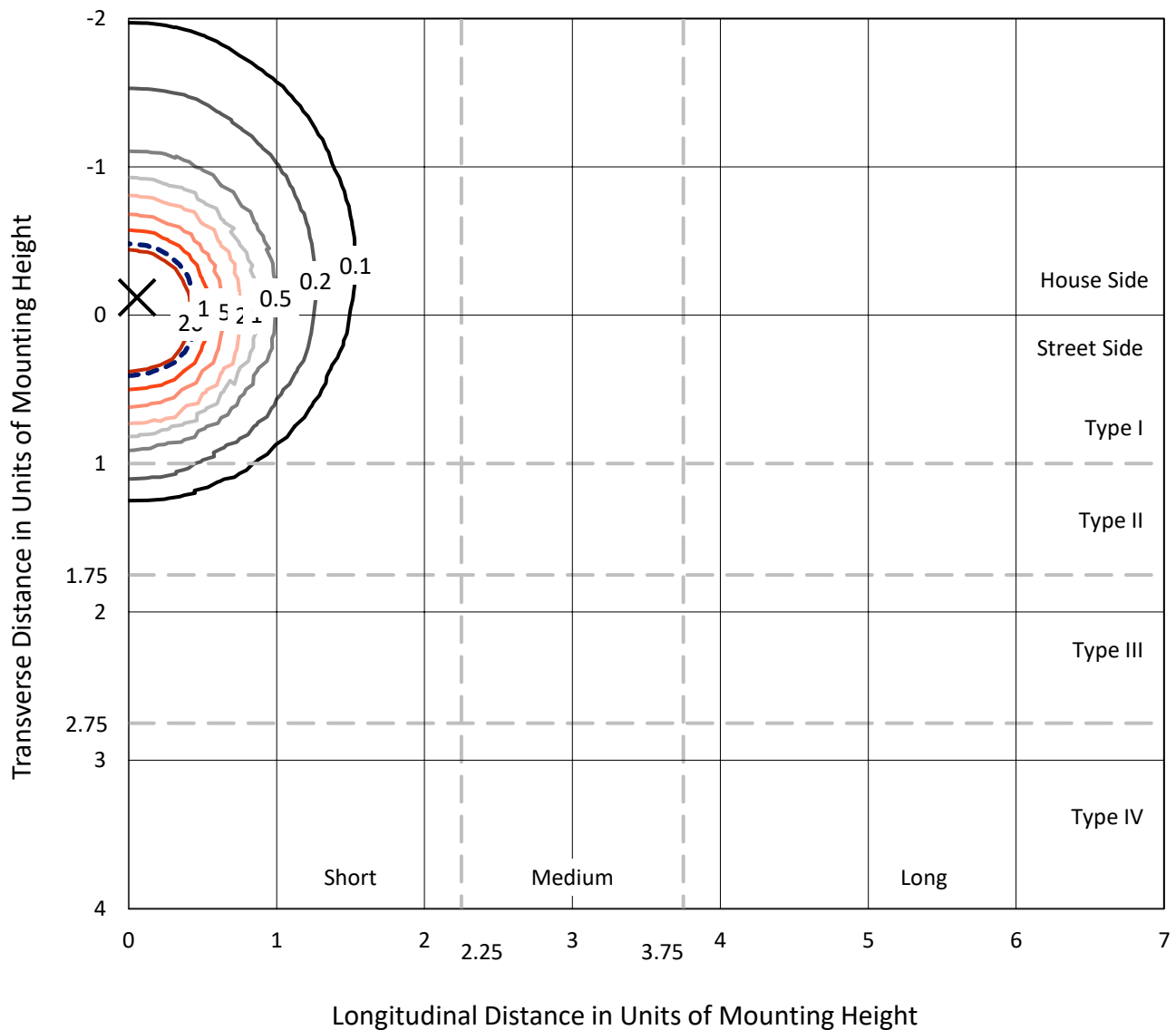
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



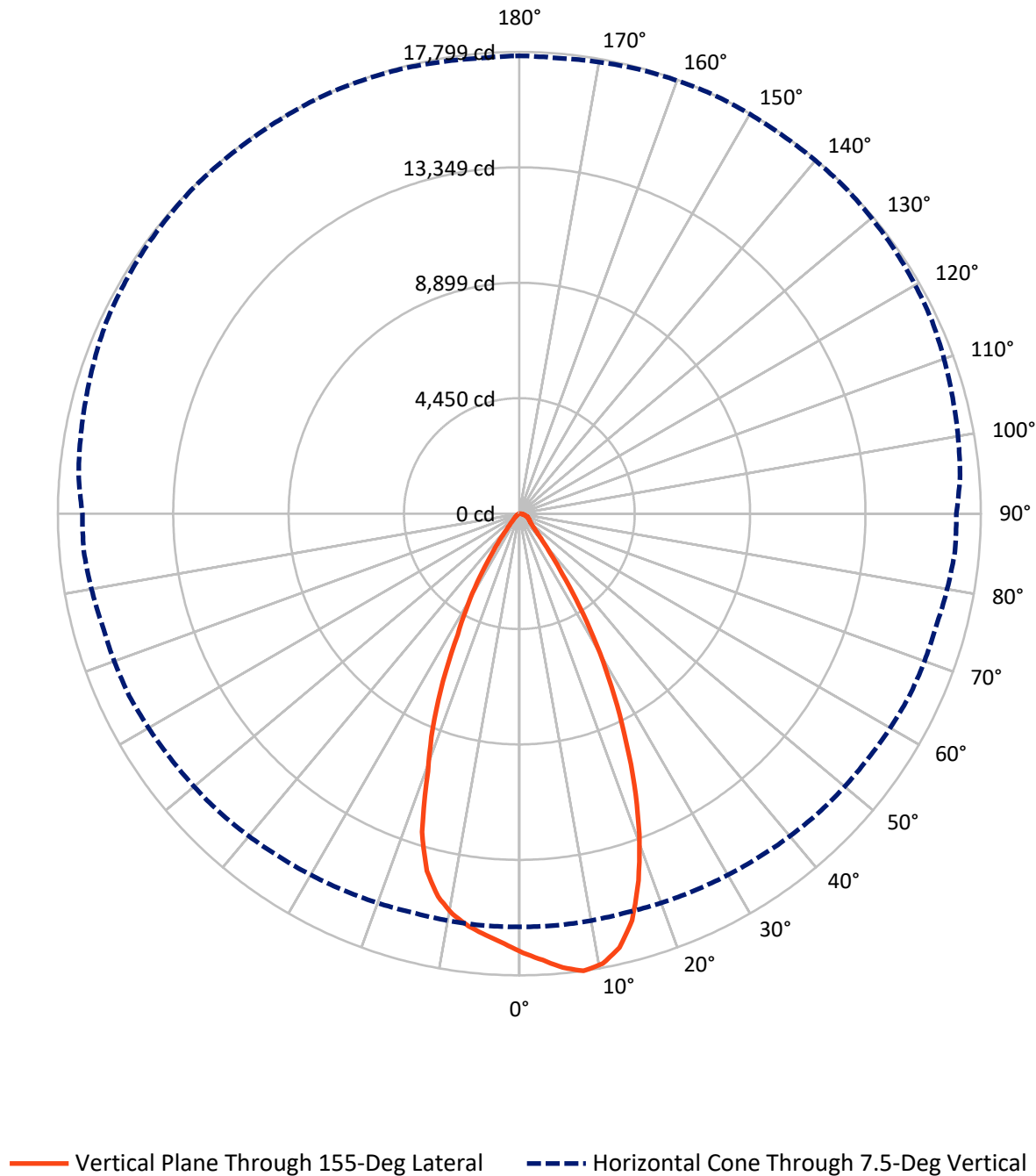
Based on 20 foot mounting height. Maximum calculated value = 43 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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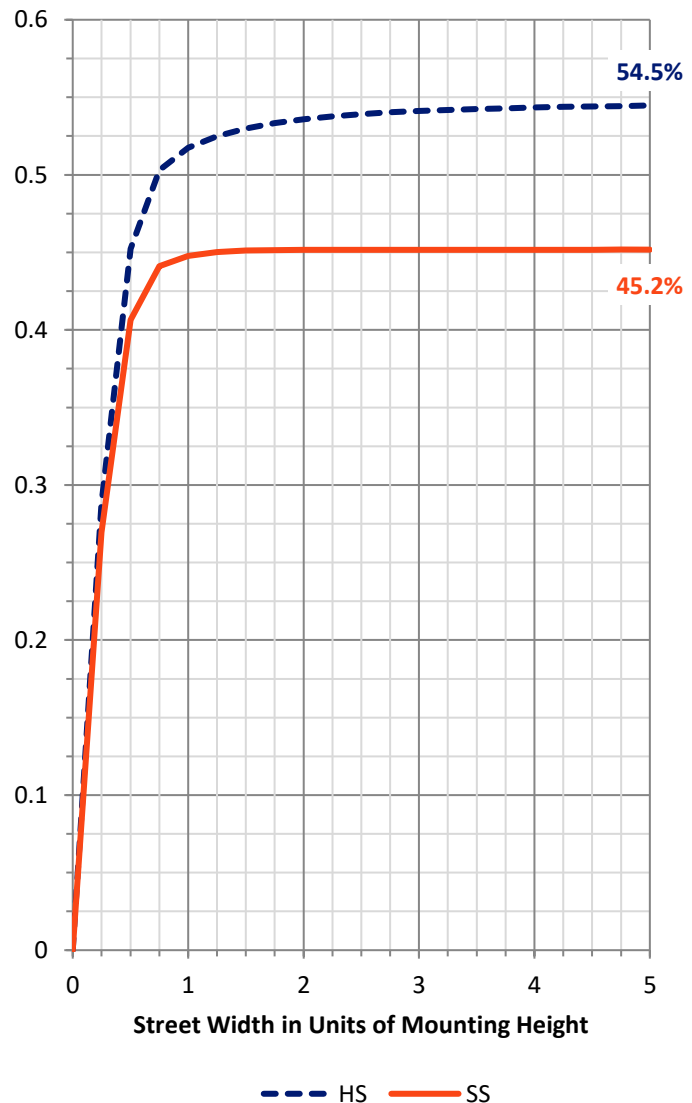
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6711.5	0.0	6711.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5446.2	0.0	5446.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	12157.6	0.0	12157.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1615.0	13.3
10°-20°	4187.7	34.4
20°-30°	3837.1	31.6
30°-40°	1550.2	12.8
40°-50°	454.8	3.7
50°-60°	254.3	2.1
60°-70°	154.4	1.3
70°-80°	78.5	0.6
80°-90°	25.7	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°	12157.6	100.0
0°-180°	12157.6	100.0

Coefficient of Utilization



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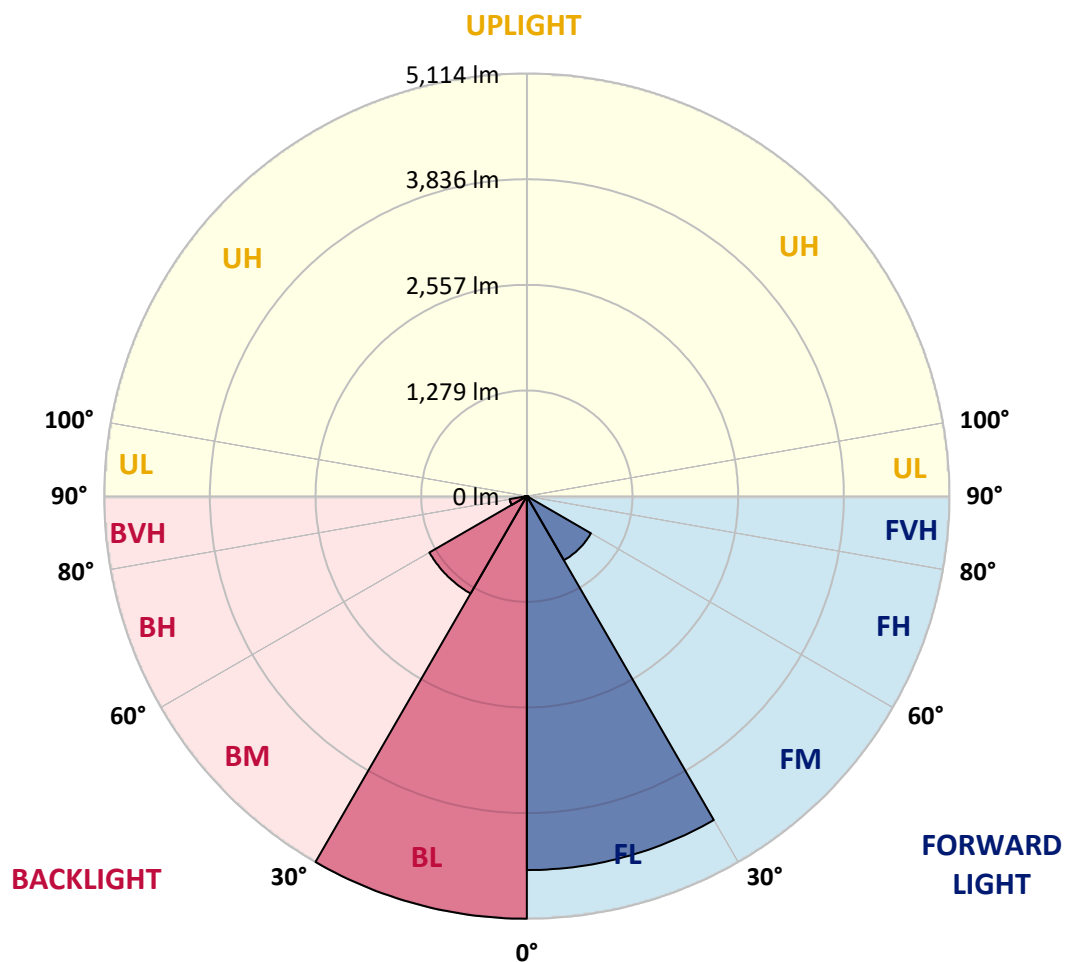
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4525.4	37.2			
FM	(30°-60°)	896.8	7.4			
FH	(60°-80°)	21.7	0.2			G0/660
FVH	(80°-90°)	2.2	0.0			G0/10
BL	(0°-30°)	5114.5	42.1	B5		
BM	(30°-60°)	1362.4	11.2	B2/2500		
BH	(60°-80°)	211.2	1.7	B1/500		G1/500
BVH	(80°-90°)	23.4	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5
2.5°	16569.2	16625.3	16513.2	16587.5	16644.9	16782.3	16793.5	16841.2	16858.0	16982.8
5°	16255.2	16298.7	16207.5	16307.1	16388.4	16510.3	16604.3	16736.1	16809.0	16956.2
7.5°	15928.6	15938.4	15920.1	16025.3	16147.3	16315.5	16431.8	16604.3	16649.1	16859.4
10°	15533.2	15461.7	15496.8	15651.0	15833.2	16091.2	16171.1	16343.5	16423.4	16637.9
12.5°	14902.4	14938.8	14895.3	15091.6	15243.0	15536.0	15620.1	15794.0	15946.8	16136.0
15°	14013.5	13992.5	14080.8	14233.6	14397.7	14630.4	14766.4	14955.6	15072.0	15268.3
17.5°	12015.8	12087.3	12451.8	12834.5	13171.0	13443.0	13605.6	13762.6	13846.7	14059.8
20°	10377.0	10287.2	10336.3	10552.2	11509.7	11926.1	12097.1	12135.0	12170.0	12338.3
22.5°	8544.7	8515.2	8679.3	8921.8	9148.9	10109.2	10341.9	10253.6	10326.5	10484.9
25°	6345.1	6493.7	6639.5	7104.9	7399.3	7870.3	8312.0	8351.2	8377.8	8477.4
27.5°	5164.7	5112.8	5110.0	5240.4	5675.0	6067.5	6443.2	6530.1	6514.7	6610.0
30°	4059.9	4043.1	3984.2	4015.1	3971.6	4320.7	4497.3	4854.8	4835.2	4838.0
32.5°	2928.6	2865.5	2841.7	2887.9	2843.1	2810.8	2965.0	3368.8	3361.8	3389.8
35°	1772.0	1763.6	1783.2	1823.9	1734.2	1731.4	1763.6	2143.5	2189.8	2234.7
37.5°	978.5	970.1	985.5	1135.6	1106.1	1079.5	1087.9	1288.4	1421.5	1455.2
40°	644.9	643.5	654.7	681.3	731.8	722.0	726.2	815.9	942.1	971.5
42.5°	431.8	433.2	440.2	471.0	478.1	528.5	520.1	541.1	658.9	684.1
45°	344.9	343.5	347.7	333.7	342.1	393.9	399.5	400.9	501.9	517.3
47.5°	272.0	272.0	276.2	258.0	253.7	286.0	315.4	319.6	400.9	422.0
50°	190.7	190.7	211.7	203.3	213.1	222.9	255.1	259.4	328.0	350.5
52.5°	140.2	143.0	145.8	147.2	179.4	178.0	206.1	225.7	248.1	287.4
55°	106.5	109.3	102.3	109.3	133.2	148.6	154.2	182.2	197.7	241.1
57.5°	70.1	77.1	71.5	84.1	89.7	115.0	123.4	150.0	159.8	197.7
60°	9.8	11.2	18.2	58.9	63.1	75.7	95.3	119.2	129.0	161.2
62.5°	1.4	1.4	4.2	9.8	42.1	50.5	71.5	82.7	95.3	120.6
65°	0.0	0.0	1.4	2.8	8.4	29.4	36.4	44.9	65.9	86.9
67.5°	0.0	0.0	1.4	2.8	4.2	9.8	15.4	29.4	37.9	60.3
70°	0.0	0.0	1.4	2.8	4.2	5.6	8.4	11.2	22.4	35.0
72.5°	0.0	0.0	1.4	2.8	4.2	5.6	7.0	8.4	9.8	22.4
75°	0.0	0.0	1.4	2.8	4.2	7.0	8.4	8.4	8.4	9.8
77.5°	0.0	0.0	1.4	2.8	5.6	8.4	9.8	8.4	7.0	7.0
80°	0.0	0.0	1.4	4.2	7.0	9.8	11.2	8.4	5.6	4.2
82.5°	0.0	0.0	1.4	4.2	7.0	9.8	11.2	9.8	5.6	4.2
85°	0.0	0.0	1.4	4.2	5.6	7.0	11.2	9.8	5.6	2.8
87.5°	0.0	0.0	0.0	1.4	1.4	2.8	5.6	4.2	2.8	1.4
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°
16936.5	0°	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5	16936.5
16980.0	2.5°	17106.2	17169.2	17280.0	17310.8	17406.2	17296.8	17236.5	17242.1	17111.8
16937.9	5°	17106.2	17250.6	17444.0	17536.5	17606.6	17601.0	17585.6	17546.4	17451.0
16853.8	7.5°	17061.3	17296.8	17563.2	17686.6	17770.7	17763.7	17798.7	17735.6	17619.3
16703.8	10°	16916.9	17121.6	17449.6	17550.6	17686.6	17689.4	17645.9	17658.5	17451.0
16155.7	12.5°	16462.7	16622.5	16909.9	17024.9	17190.3	17216.9	17169.2	17151.0	16954.8
15257.0	15°	15583.7	15676.2	15965.0	16080.0	16244.0	16221.6	16269.2	16249.6	16077.2
14043.0	17.5°	14298.1	14327.6	14630.4	14727.1	14881.3	14941.6	14870.1	14961.2	14812.6
12367.7	20°	12454.6	12613.0	12953.7	13102.3	13192.0	13300.0	13206.0	13308.4	13134.5
10334.9	22.5°	10584.5	10678.4	10986.8	11201.3	11368.1	11389.2	11354.1	11425.6	11191.5
8543.3	25°	8541.9	8697.5	8941.4	9221.8	9385.8	9486.8	9395.6	9441.9	9404.0
6625.4	27.5°	6737.6	6876.4	7060.0	7268.9	7515.7	7647.4	7574.5	7653.1	7468.0
4940.3	30°	4944.6	5014.6	5222.1	5443.6	5714.2	5874.0	5881.0	5960.9	5851.6
3461.3	32.5°	3486.6	3548.2	3675.8	3823.0	4081.0	4259.0	4231.0	4242.2	4174.9
2255.7	35°	2266.9	2349.6	2440.7	2510.8	2666.4	2862.7	2847.3	2833.3	2787.0
1483.2	37.5°	1515.5	1547.7	1598.2	1661.3	1762.2	1885.6	1926.2	1875.8	1856.1
1001.0	40°	1024.8	1080.9	1114.5	1162.2	1209.9	1313.6	1341.6	1331.8	1312.2
701.0	42.5°	727.6	771.1	813.1	859.4	884.6	949.1	1003.8	988.3	979.9
532.7	45°	552.4	591.6	640.7	675.7	701.0	738.8	790.7	796.3	783.7
427.6	47.5°	443.0	478.1	517.3	560.8	590.2	614.0	658.9	675.7	667.3
360.3	50°	375.7	402.3	440.2	483.7	515.9	536.9	576.2	594.4	588.8
301.4	52.5°	319.6	351.9	386.9	423.4	462.6	483.7	520.1	546.7	542.5
249.5	55°	265.0	307.0	343.5	379.9	424.8	445.8	478.1	513.1	506.1
211.7	57.5°	231.3	266.4	304.2	339.3	386.9	415.0	444.4	480.9	479.5
173.8	60°	193.5	228.5	270.6	300.0	350.5	389.7	416.4	454.2	457.0
131.8	62.5°	154.2	197.7	229.9	270.6	316.8	363.1	388.3	426.2	440.2
100.9	65°	115.0	162.6	199.1	239.7	283.2	335.1	357.5	395.3	409.4
72.9	67.5°	85.5	122.0	168.2	203.3	252.3	297.2	323.8	358.9	368.7
43.5	70°	64.5	93.9	140.2	171.0	221.5	258.0	284.6	311.2	323.8
29.4	72.5°	37.9	70.1	110.8	147.2	190.7	221.5	241.1	262.2	270.6
14.0	75°	26.6	53.3	86.9	122.0	154.2	179.4	197.7	215.9	224.3
7.0	77.5°	14.0	39.3	68.7	98.1	120.6	141.6	159.8	173.8	179.4
5.6	80°	8.4	28.0	56.1	77.1	92.5	110.8	129.0	138.8	137.4
4.2	82.5°	5.6	22.4	40.7	56.1	67.3	81.3	93.9	100.9	100.9
2.8	85°	4.2	15.4	28.0	43.5	44.9	56.1	58.9	65.9	67.3
2.8	87.5°	2.8	9.8	15.4	25.2	23.8	29.4	30.8	35.0	37.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
16936.5
17006.6
17481.9
17645.9
17390.8
16909.9
16131.8
14776.2
13120.5
11159.2
9380.2
7515.7
5871.2
4212.8
2746.4
1851.9
1315.0
972.9
782.3
663.1
587.4
539.7
506.1
478.1
457.0
438.8
408.0
368.7
321.0
267.8
221.5
178.0
136.0
99.5
65.9
36.4
0.0

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