

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: P637578

Luminaire Tested: **IFLD-S-SA2A-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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: 7896.9 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 63.8
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

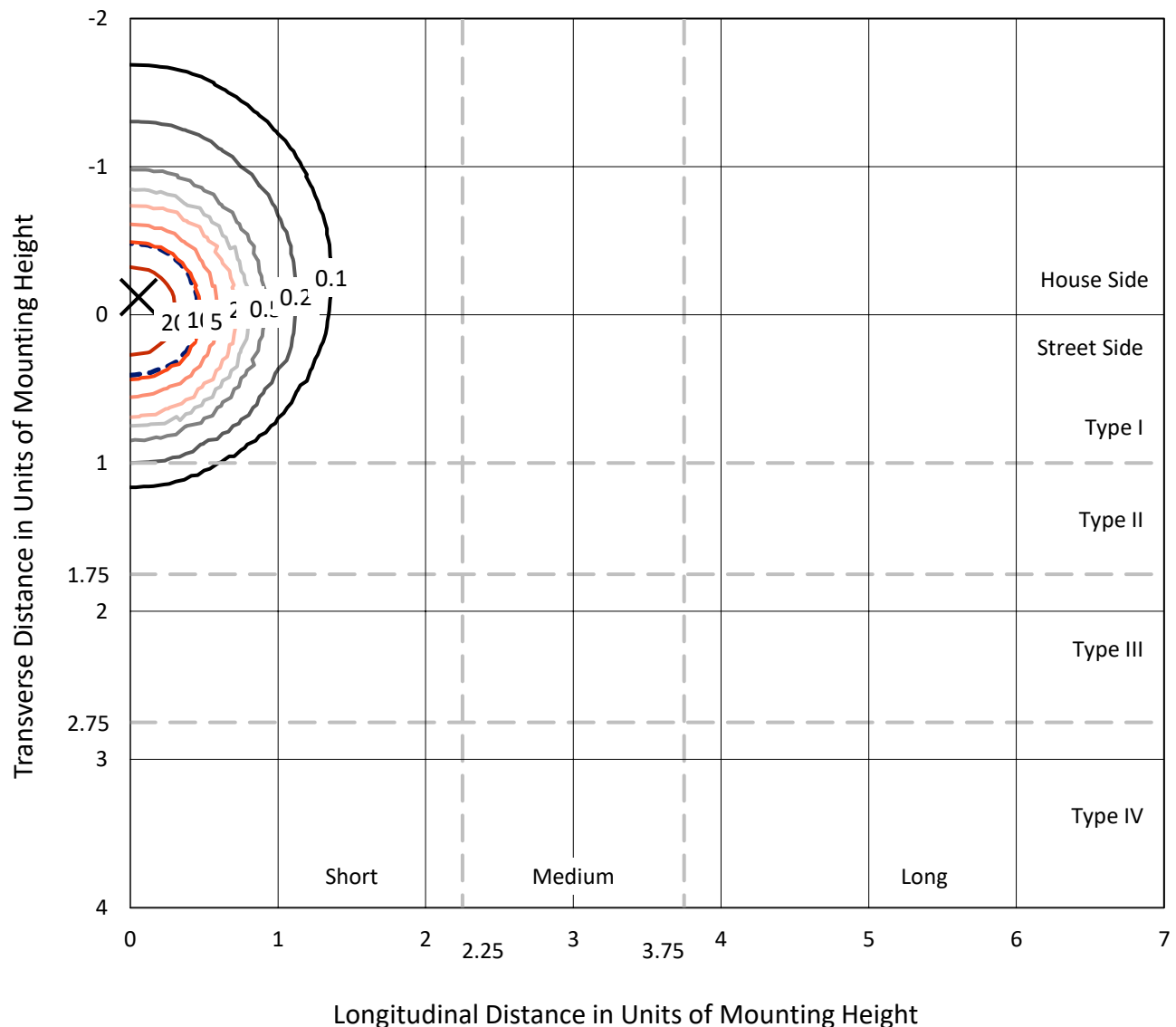


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

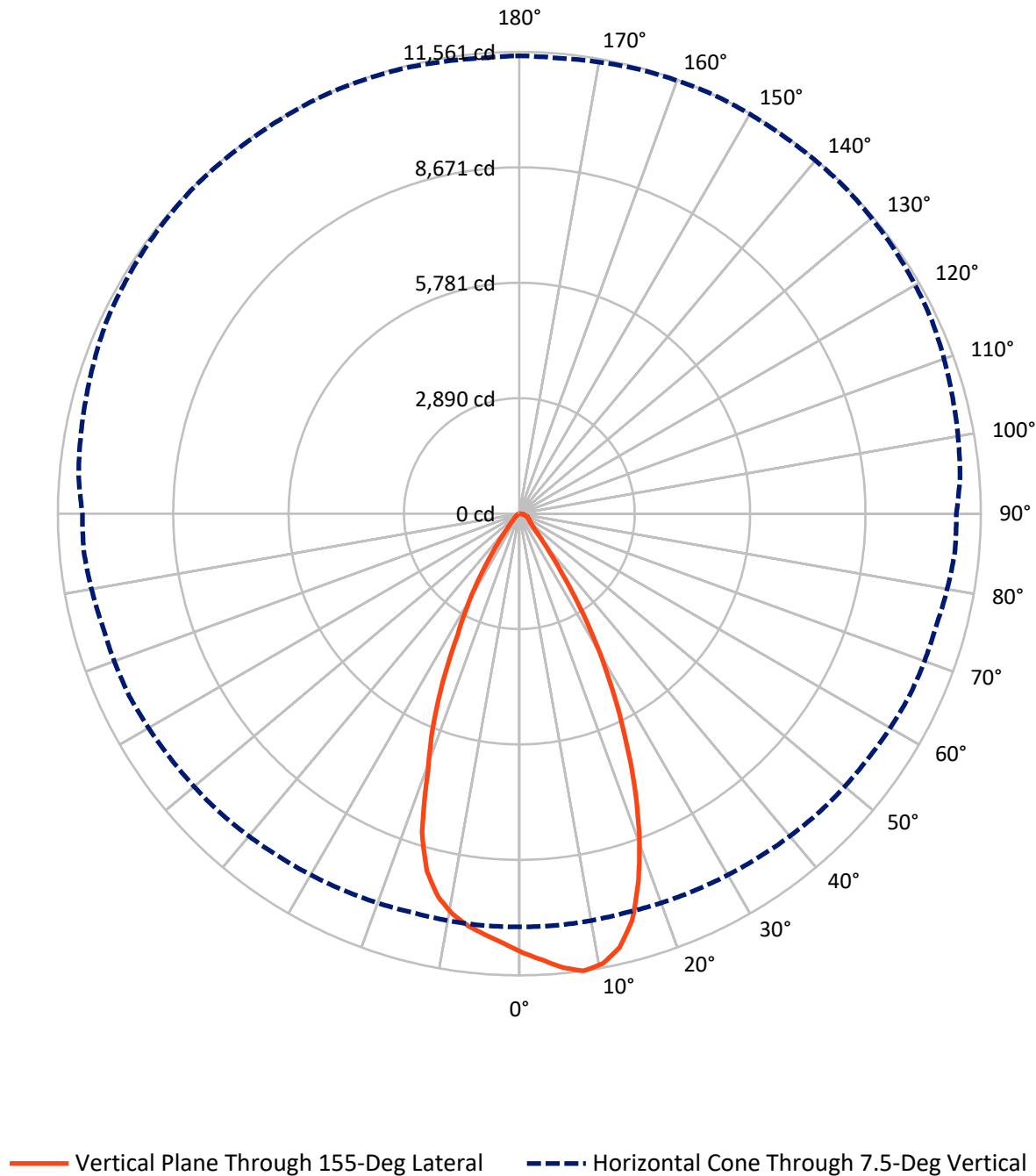


Based on 20 foot mounting height. Maximum calculated value = 28 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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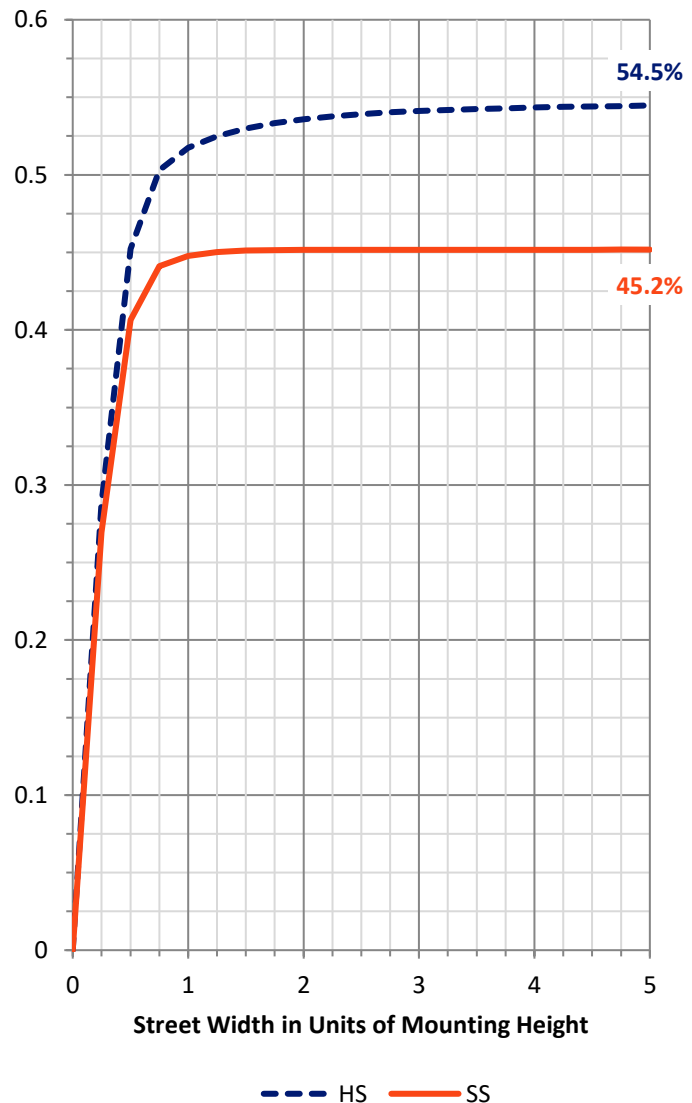
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4359.4	0.0	4359.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3537.5	0.0	3537.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	7896.9	0.0	7896.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.0	13.3
10°-20°	2720.1	34.4
20°-30°	2492.4	31.6
30°-40°	1006.9	12.8
40°-50°	295.4	3.7
50°-60°	165.2	2.1
60°-70°	100.3	1.3
70°-80°	51.0	0.6
80°-90°	16.7	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°	7896.9	100.0
0°-180°	7896.9	100.0

Coefficient of Utilization



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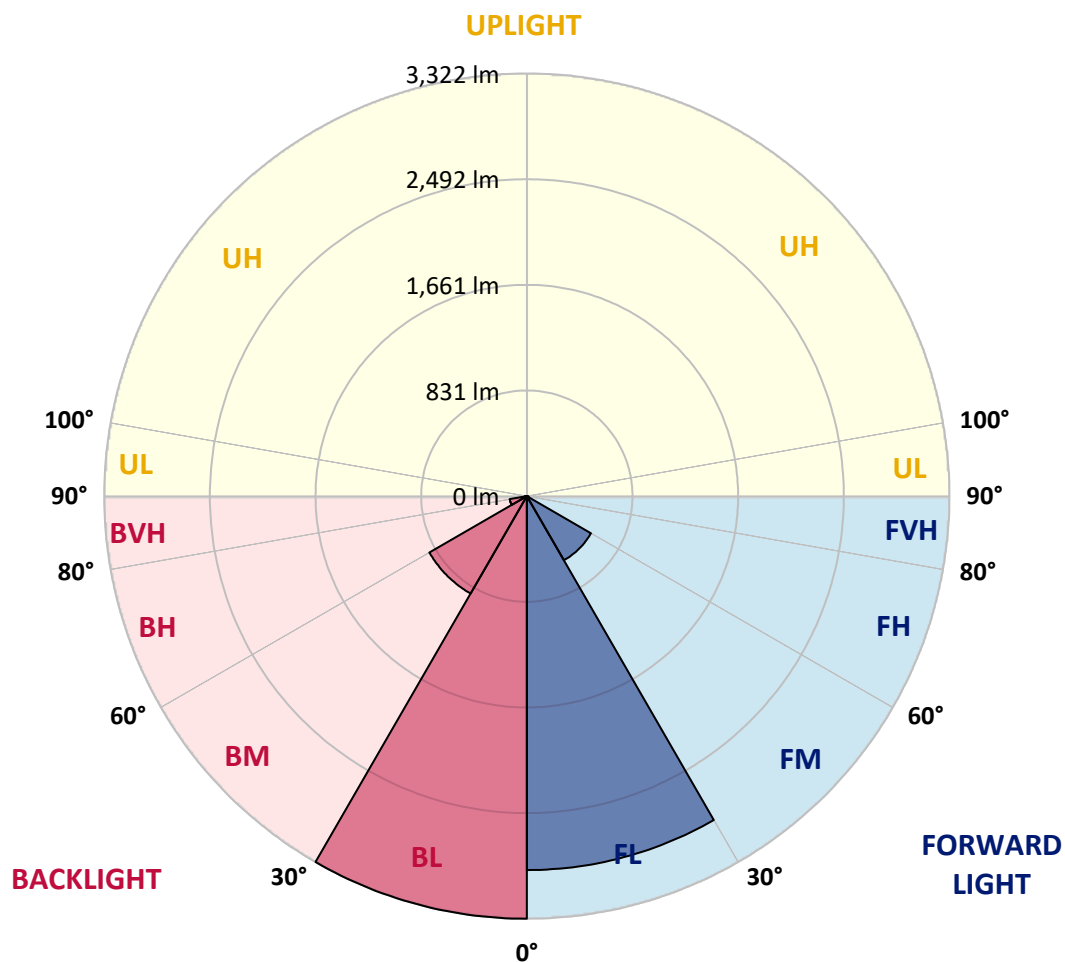
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2939.4	37.2			
FM	(30°-60°)	582.5	7.4			
FH	(60°-80°)	14.1	0.2			G0/660
FVH	(80°-90°)	1.4	0.0			G0/10
BL	(0°-30°)	3322.1	42.1	B4/5000		
BM	(30°-60°)	884.9	11.2	B1/1000		
BH	(60°-80°)	137.2	1.7	B1/500		G1/500
BVH	(80°-90°)	15.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0
2.5°	10762.4	10798.9	10726.0	10774.3	10811.6	10900.8	10908.1	10939.1	10950.0	11031.1
5°	10558.5	10586.7	10527.5	10592.1	10645.0	10724.2	10785.2	10870.8	10918.1	11013.8
7.5°	10346.3	10352.7	10340.8	10409.1	10488.3	10597.6	10673.2	10785.2	10814.3	10950.9
10°	10089.5	10043.1	10065.8	10166.0	10284.4	10451.9	10503.8	10615.8	10667.7	10807.1
12.5°	9679.7	9703.4	9675.2	9802.7	9901.0	10091.3	10146.0	10258.9	10358.1	10481.1
15°	9102.4	9088.7	9146.1	9245.4	9351.9	9503.1	9591.4	9714.3	9789.9	9917.4
17.5°	7804.8	7851.2	8088.0	8336.6	8555.1	8731.8	8837.4	8939.4	8994.0	9132.4
20°	6740.3	6682.0	6713.9	6854.1	7476.1	7746.5	7857.6	7882.2	7905.0	8014.2
22.5°	5550.1	5531.0	5637.6	5795.1	5942.6	6566.4	6717.5	6660.2	6707.5	6810.4
25°	4121.4	4217.9	4312.6	4614.9	4806.2	5112.1	5399.0	5424.5	5441.8	5506.4
27.5°	3354.7	3321.0	3319.2	3403.8	3686.1	3941.1	4185.1	4241.6	4231.6	4293.5
30°	2637.1	2626.2	2587.9	2608.0	2579.7	2806.5	2921.2	3153.4	3140.7	3142.5
32.5°	1902.3	1861.3	1845.8	1875.8	1846.7	1825.8	1925.9	2188.2	2183.6	2201.8
35°	1151.0	1145.5	1158.3	1184.7	1126.4	1124.6	1145.5	1392.3	1422.4	1451.5
37.5°	635.6	630.1	640.2	737.6	718.5	701.2	706.6	836.8	923.4	945.2
40°	418.9	418.0	425.3	442.6	475.3	469.0	471.7	530.0	611.9	631.0
42.5°	280.5	281.4	285.9	306.0	310.5	343.3	337.8	351.5	428.0	444.4
45°	224.0	223.1	225.8	216.7	222.2	255.9	259.5	260.4	326.0	336.0
47.5°	176.7	176.7	179.4	167.6	164.8	185.8	204.9	207.6	260.4	274.1
50°	123.8	123.8	137.5	132.0	138.4	144.8	165.7	168.5	213.1	227.7
52.5°	91.1	92.9	94.7	95.6	116.6	115.6	133.9	146.6	161.2	186.7
55°	69.2	71.0	66.5	71.0	86.5	96.5	100.2	118.4	128.4	156.6
57.5°	45.5	50.1	46.4	54.6	58.3	74.7	80.1	97.4	103.8	128.4
60°	6.4	7.3	11.8	38.2	41.0	49.2	61.9	77.4	83.8	104.7
62.5°	0.9	0.9	2.7	6.4	27.3	32.8	46.4	53.7	61.9	78.3
65°	0.0	0.0	0.9	1.8	5.5	19.1	23.7	29.1	42.8	56.5
67.5°	0.0	0.0	0.9	1.8	2.7	6.4	10.0	19.1	24.6	39.2
70°	0.0	0.0	0.9	1.8	2.7	3.6	5.5	7.3	14.6	22.8
72.5°	0.0	0.0	0.9	1.8	2.7	3.6	4.6	5.5	6.4	14.6
75°	0.0	0.0	0.9	1.8	2.7	4.6	5.5	5.5	5.5	6.4
77.5°	0.0	0.0	0.9	1.8	3.6	5.5	6.4	5.5	4.6	4.6
80°	0.0	0.0	0.9	2.7	4.6	6.4	7.3	5.5	3.6	2.7
82.5°	0.0	0.0	0.9	2.7	4.6	6.4	7.3	6.4	3.6	2.7
85°	0.0	0.0	0.9	2.7	3.6	4.6	7.3	6.4	3.6	1.8
87.5°	0.0	0.0	0.0	0.9	0.9	1.8	3.6	2.7	1.8	0.9
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°
11001.0	0°	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0	11001.0
11029.2	2.5°	11111.2	11152.2	11224.1	11244.1	11306.1	11235.0	11195.9	11199.5	11114.8
11001.9	5°	11111.2	11205.0	11330.6	11390.7	11436.3	11432.6	11422.6	11397.1	11335.2
10947.3	7.5°	11082.1	11235.0	11408.0	11488.2	11542.8	11538.3	11561.0	11520.1	11444.5
10849.8	10°	10988.3	11121.2	11334.3	11399.9	11488.2	11490.0	11461.8	11470.0	11335.2
10493.8	12.5°	10693.2	10797.0	10983.7	11058.4	11165.8	11183.1	11152.2	11140.3	11012.8
9910.1	15°	10122.3	10182.4	10370.0	10444.6	10551.2	10536.6	10567.6	10554.8	10442.8
9121.5	17.5°	9287.3	9306.4	9503.1	9565.9	9666.1	9705.2	9658.8	9718.0	9621.4
8033.4	20°	8089.8	8192.7	8414.0	8510.5	8568.8	8638.9	8577.9	8644.4	8531.5
6713.0	22.5°	6875.1	6936.1	7136.4	7275.7	7384.1	7397.7	7375.0	7421.4	7269.4
5549.2	25°	5548.3	5649.4	5807.8	5990.0	6096.5	6162.1	6102.9	6132.9	6108.3
4303.5	27.5°	4376.4	4466.5	4585.8	4721.5	4881.7	4967.3	4920.0	4971.0	4850.8
3209.0	30°	3211.7	3257.2	3392.0	3535.9	3711.6	3815.4	3820.0	3871.9	3800.9
2248.3	32.5°	2264.7	2304.7	2387.6	2483.2	2650.8	2766.4	2748.2	2755.5	2711.8
1465.2	35°	1472.4	1526.2	1585.4	1630.9	1732.0	1859.5	1849.4	1840.3	1810.3
963.4	37.5°	984.4	1005.3	1038.1	1079.1	1144.6	1224.8	1251.2	1218.4	1205.6
650.2	40°	665.7	702.1	723.9	754.9	785.9	853.2	871.4	865.1	852.3
455.3	42.5°	472.6	500.8	528.2	558.2	574.6	616.5	652.0	642.0	636.5
346.0	45°	358.8	384.3	416.1	438.9	455.3	479.9	513.6	517.2	509.0
277.7	47.5°	287.8	310.5	336.0	364.2	383.4	398.8	428.0	438.9	433.4
234.0	50°	244.0	261.3	285.9	314.2	335.1	348.8	374.3	386.1	382.5
195.8	52.5°	207.6	228.6	251.3	275.0	300.5	314.2	337.8	355.1	352.4
162.1	55°	172.1	199.4	223.1	246.8	275.9	289.6	310.5	333.3	328.7
137.5	57.5°	150.2	173.0	197.6	220.4	251.3	269.5	288.7	312.3	311.4
112.9	60°	125.7	148.4	175.7	194.9	227.7	253.1	270.4	295.0	296.9
85.6	62.5°	100.2	128.4	149.3	175.7	205.8	235.8	252.2	276.8	285.9
65.6	65°	74.7	105.6	129.3	155.7	183.9	217.6	232.2	256.8	265.9
47.4	67.5°	55.5	79.2	109.3	132.0	163.9	193.0	210.3	233.1	239.5
28.2	70°	41.9	61.0	91.1	111.1	143.9	167.6	184.9	202.2	210.3
19.1	72.5°	24.6	45.5	71.9	95.6	123.8	143.9	156.6	170.3	175.7
9.1	75°	17.3	34.6	56.5	79.2	100.2	116.6	128.4	140.2	145.7
4.6	77.5°	9.1	25.5	44.6	63.7	78.3	92.0	103.8	112.9	116.6
3.6	80°	5.5	18.2	36.4	50.1	60.1	71.9	83.8	90.1	89.2
2.7	82.5°	3.6	14.6	26.4	36.4	43.7	52.8	61.0	65.6	65.6
1.8	85°	2.7	10.0	18.2	28.2	29.1	36.4	38.2	42.8	43.7
1.8	87.5°	1.8	6.4	10.0	16.4	15.5	19.1	20.0	22.8	24.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
11001.0
11046.5
11355.2
11461.8
11296.0
10983.7
10478.3
9597.8
8522.3
7248.4
6092.9
4881.7
3813.6
2736.4
1783.9
1202.9
854.1
632.0
508.1
430.7
381.5
350.6
328.7
310.5
296.9
285.0
265.0
239.5
208.5
173.9
143.9
115.6
88.3
64.7
42.8
23.7
0.0

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