

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: P636447

Luminaire Tested: **IFLD-S-SA2A-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636447
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4889.3 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G0

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



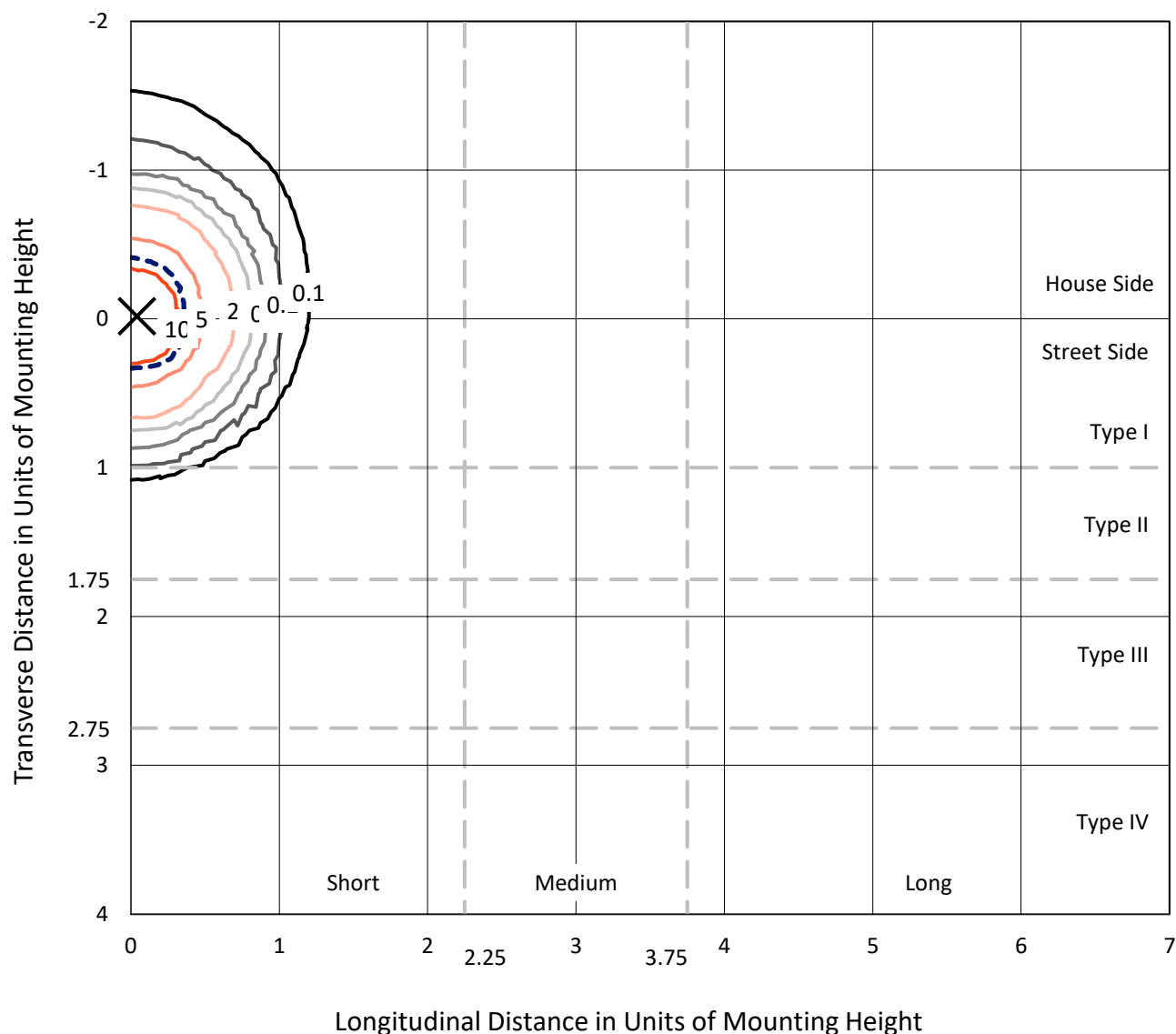
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

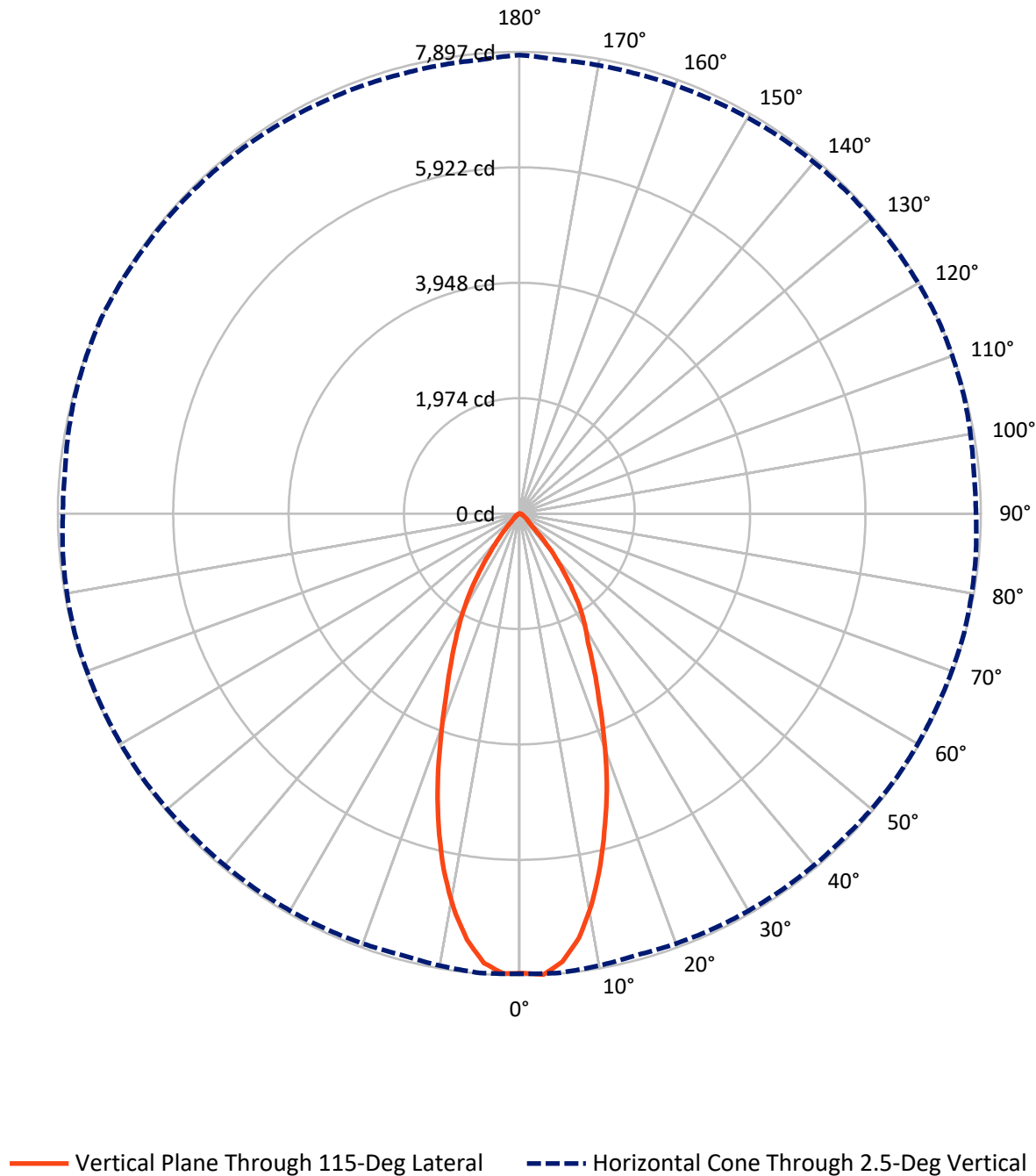


Based on 20 foot mounting height. Maximum calculated value = 19.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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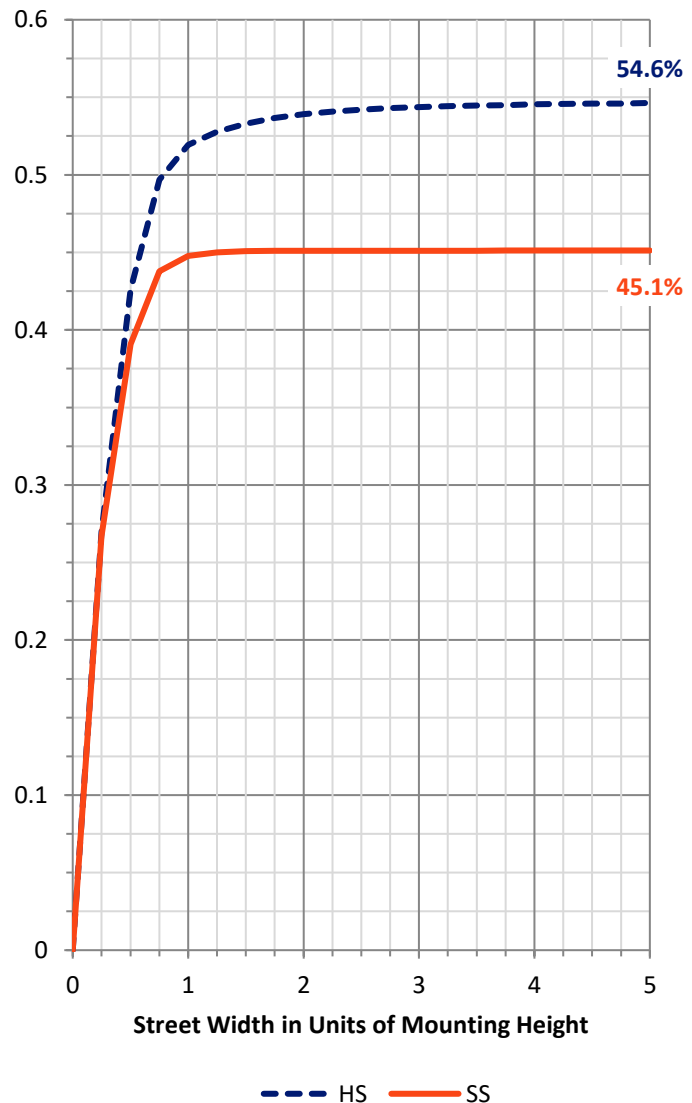
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2698.3	0.0	2698.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	2191.0	0.0	2191.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	4889.3	0.0	4889.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.9	14.4
10°-20°	1489.9	30.5
20°-30°	1344.7	27.5
30°-40°	889.9	18.2
40°-50°	266.6	5.5
50°-60°	106.9	2.2
60°-70°	55.4	1.1
70°-80°	24.0	0.5
80°-90°	7.0	0.1
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°	4889.3	100.0
0°-180°	4889.3	100.0

Coefficient of Utilization



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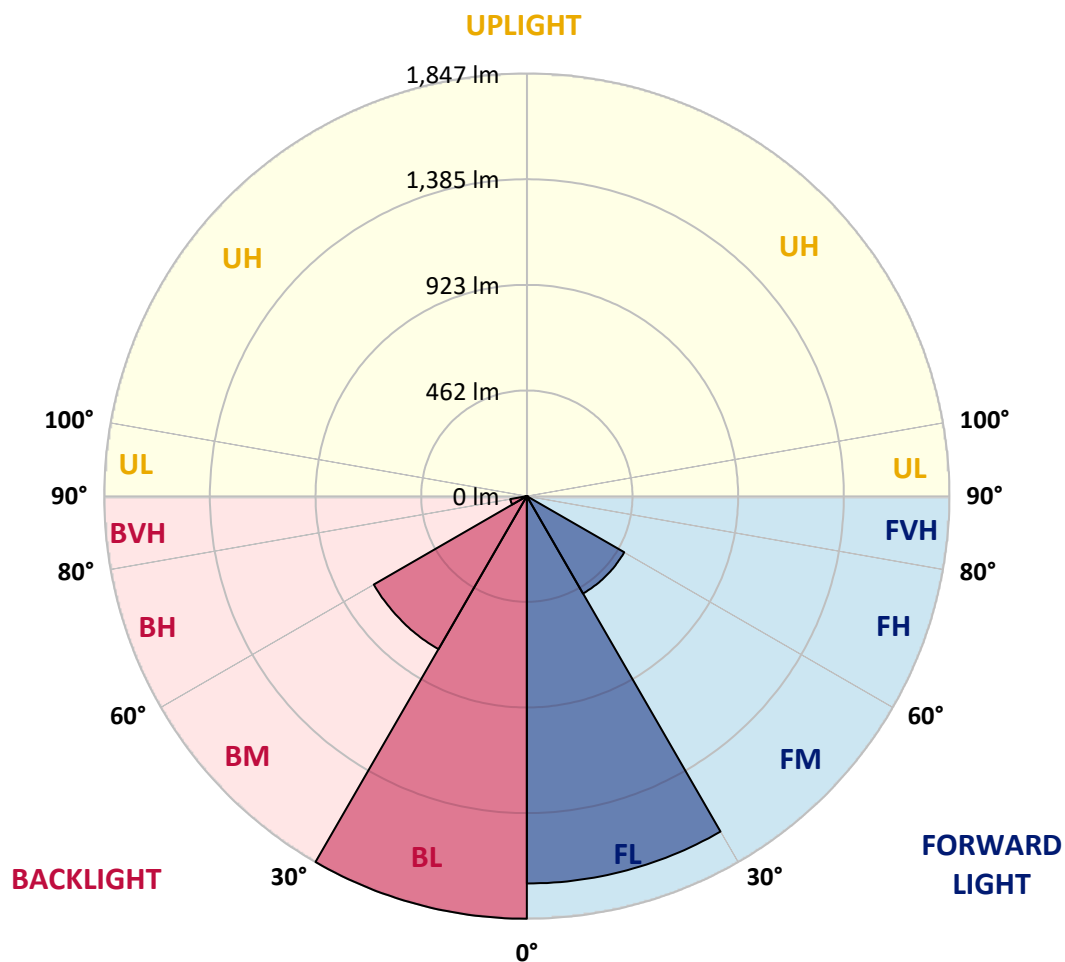
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1692.7	34.6			
FM	(30°-60°)	491.2	10.0			
FH	(60°-80°)	6.1	0.1			G0/660
FVH	(80°-90°)	1.0	0.0			G0/10
BL	(0°-30°)	1846.8	37.8	B3/2500		
BM	(30°-60°)	772.2	15.8	B1/1000		
BH	(60°-80°)	73.3	1.5	B0/110		G0/110
BVH	(80°-90°)	6.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5
2.5°	7869.5	7883.5	7813.5	7837.5	7847.5	7850.5	7875.5	7871.5	7878.5	7841.5
5°	7765.5	7738.5	7686.5	7687.5	7684.5	7656.5	7713.5	7709.5	7697.5	7653.5
7.5°	7411.6	7450.6	7352.6	7350.6	7348.6	7314.6	7389.6	7343.6	7353.6	7290.6
10°	6893.6	6898.6	6811.6	6803.6	6810.6	6766.6	6853.6	6835.6	6854.6	6788.6
12.5°	6258.6	6286.6	6190.6	6176.6	6204.6	6142.6	6212.6	6221.6	6193.6	6184.6
15°	4908.7	4982.7	5164.7	5442.7	5514.7	5462.7	5518.7	5517.7	5529.7	5461.7
17.5°	3739.8	3746.8	3703.8	3836.8	4606.7	4856.7	4868.7	4773.7	4701.7	4676.7
20°	3264.8	3288.8	3249.8	3260.8	3383.8	4116.8	4144.8	4001.8	3878.8	3868.8
22.5°	2886.8	2901.8	2873.8	2882.8	2888.8	2974.8	3461.8	3335.8	3276.8	3231.8
25°	2566.8	2566.8	2551.8	2554.8	2548.8	2421.9	2671.8	2815.8	2781.8	2765.8
27.5°	2274.9	2278.9	2259.9	2270.9	2197.9	1992.9	1962.9	2387.9	2351.9	2322.9
30°	1997.9	2010.9	1992.9	1998.9	1839.9	1671.9	1585.9	1991.9	2036.9	2028.9
32.5°	1503.9	1562.9	1707.9	1713.9	1497.9	1368.9	1330.9	1598.9	1769.9	1754.9
35°	931.9	928.9	934.9	1222.9	1148.9	1060.9	1074.9	1207.9	1400.9	1393.9
37.5°	711.0	710.0	721.0	692.0	753.0	805.0	816.0	816.0	1022.9	1023.9
40°	539.0	535.0	534.0	488.0	409.0	604.0	586.0	571.0	711.0	726.0
42.5°	344.0	356.0	347.0	297.0	267.0	330.0	368.0	356.0	439.0	450.0
45°	192.0	192.0	184.0	156.0	155.0	167.0	210.0	196.0	225.0	240.0
47.5°	93.0	91.0	100.0	123.0	128.0	124.0	150.0	156.0	170.0	184.0
50°	75.0	75.0	71.0	64.0	106.0	102.0	111.0	119.0	127.0	139.0
52.5°	63.0	63.0	58.0	54.0	61.0	78.0	79.0	94.0	93.0	110.0
55°	32.0	33.0	47.0	47.0	41.0	64.0	65.0	76.0	78.0	92.0
57.5°	3.0	4.0	6.0	29.0	32.0	35.0	49.0	56.0	65.0	71.0
60°	1.0	1.0	2.0	4.0	19.0	24.0	31.0	37.0	45.0	59.0
62.5°	0.0	0.0	1.0	2.0	4.0	15.0	17.0	19.0	27.0	37.0
65°	0.0	0.0	1.0	1.0	2.0	5.0	7.0	12.0	17.0	23.0
67.5°	0.0	0.0	1.0	1.0	2.0	3.0	4.0	6.0	8.0	15.0
70°	0.0	0.0	1.0	1.0	2.0	3.0	3.0	4.0	5.0	7.0
72.5°	0.0	0.0	1.0	1.0	2.0	4.0	3.0	3.0	4.0	5.0
75°	0.0	0.0	1.0	1.0	2.0	3.0	3.0	3.0	3.0	3.0
77.5°	0.0	0.0	1.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0
80°	0.0	0.0	1.0	1.0	2.0	3.0	4.0	4.0	2.0	2.0
82.5°	0.0	0.0	1.0	2.0	2.0	5.0	6.0	5.0	2.0	1.0
85°	0.0	0.0	1.0	1.0	3.0	5.0	5.0	3.0	2.0	1.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	3.0	3.0	1.0	1.0
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°
7859.5	0°	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5	7859.5
7811.5	2.5°	7807.5	7868.5	7896.5	7867.5	7853.5	7833.5	7804.5	7784.5	7788.5
7629.5	5°	7612.5	7676.5	7698.5	7673.5	7652.5	7641.5	7636.5	7646.5	7672.5
7263.6	7.5°	7261.6	7302.6	7326.6	7314.6	7285.6	7318.6	7327.6	7321.6	7359.6
6768.6	10°	6770.6	6815.6	6793.6	6798.6	6764.6	6781.6	6776.6	6798.6	6836.6
6177.6	12.5°	6137.6	6180.6	6163.6	6160.6	6124.6	6156.6	6136.6	6160.6	6210.6
5433.7	15°	5472.7	5499.7	5488.7	5471.7	5439.7	5450.7	5512.7	5508.7	5530.7
4661.7	17.5°	4641.7	4771.7	4842.7	4857.7	4831.7	4853.7	4897.7	4886.7	4936.7
3847.8	20°	3840.8	3971.8	4146.8	4288.7	4291.7	4294.7	4322.7	4329.7	4372.7
3232.8	22.5°	3218.8	3311.8	3499.8	3687.8	3817.8	3844.8	3841.8	3851.8	3863.8
2743.8	25°	2736.8	2804.8	2976.8	3106.8	3334.8	3410.8	3432.8	3410.8	3417.8
2312.9	27.5°	2338.9	2442.9	2499.9	2638.8	2861.8	3037.8	3030.8	3017.8	3019.8
2012.9	30°	2011.9	2123.9	2207.9	2249.9	2417.9	2671.8	2697.8	2660.8	2661.8
1747.9	32.5°	1736.9	1771.9	1895.9	1929.9	2037.9	2268.9	2357.9	2329.9	2324.9
1397.9	35°	1438.9	1457.9	1514.9	1581.9	1645.9	1820.9	1967.9	1941.9	1954.9
1027.9	37.5°	1023.9	1101.9	1156.9	1211.9	1257.9	1367.9	1544.9	1520.9	1533.9
728.0	40°	722.0	757.0	851.9	875.9	943.9	994.9	1144.9	1136.9	1152.9
452.0	42.5°	444.0	469.0	517.0	540.0	586.0	615.0	703.0	713.0	734.0
250.0	45°	252.0	263.0	296.0	321.0	355.0	367.0	398.0	412.0	424.0
194.0	47.5°	192.0	204.0	226.0	248.0	276.0	286.0	308.0	329.0	340.0
150.0	50°	157.0	168.0	191.0	209.0	237.0	246.0	264.0	287.0	301.0
114.0	52.5°	119.0	135.0	163.0	182.0	211.0	222.0	239.0	262.0	275.0
94.0	55°	98.0	110.0	135.0	161.0	188.0	203.0	214.0	242.0	256.0
77.0	57.5°	84.0	93.0	109.0	140.0	163.0	185.0	194.0	220.0	234.0
61.0	60°	64.0	78.0	92.0	116.0	142.0	165.0	175.0	198.0	209.0
44.0	62.5°	53.0	62.0	80.0	93.0	122.0	146.0	156.0	177.0	185.0
29.0	65°	37.0	50.0	67.0	75.0	102.0	125.0	139.0	155.0	163.0
17.0	67.5°	22.0	37.0	53.0	64.0	83.0	106.0	121.0	136.0	143.0
10.0	70°	14.0	29.0	42.0	54.0	65.0	87.0	105.0	118.0	115.0
6.0	72.5°	8.0	18.0	31.0	44.0	54.0	73.0	90.0	100.0	71.0
4.0	75°	5.0	13.0	26.0	36.0	44.0	58.0	74.0	76.0	44.0
2.0	77.5°	4.0	10.0	20.0	29.0	30.0	43.0	52.0	59.0	33.0
2.0	80°	2.0	8.0	17.0	24.0	19.0	30.0	40.0	46.0	26.0
1.0	82.5°	2.0	5.0	13.0	17.0	14.0	23.0	29.0	33.0	22.0
1.0	85°	1.0	4.0	7.0	10.0	10.0	15.0	13.0	16.0	14.0
1.0	87.5°	1.0	2.0	4.0	5.0	4.0	6.0	7.0	7.0	6.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
7859.5
7842.5
7726.5
7397.6
6851.6
6219.6
5535.7
4928.7
4363.7
3841.8
3406.8
3022.8
2662.8
2336.9
1966.9
1544.9
1158.9
758.0
423.0
345.0
307.0
284.0
260.0
240.0
211.0
186.0
163.0
142.0
106.0
63.0
41.0
33.0
27.0
24.0
14.0
5.0
0.0

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