

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: P636449

Luminaire Tested: **IFLD-S-SA2C-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636449
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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: 7527.3 lumens
Efficiency: N/A
Efficacy: 69.6 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): 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



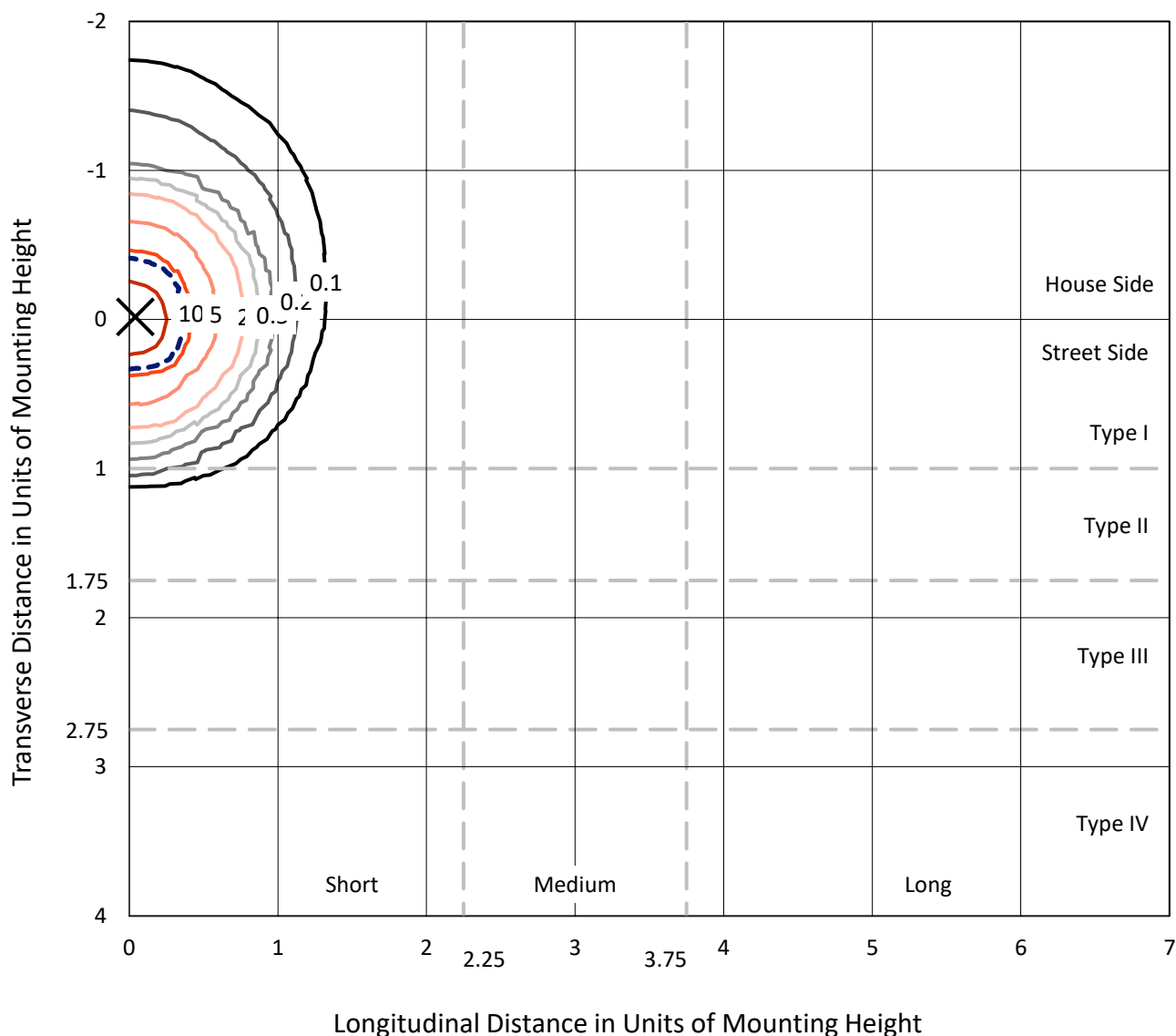
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



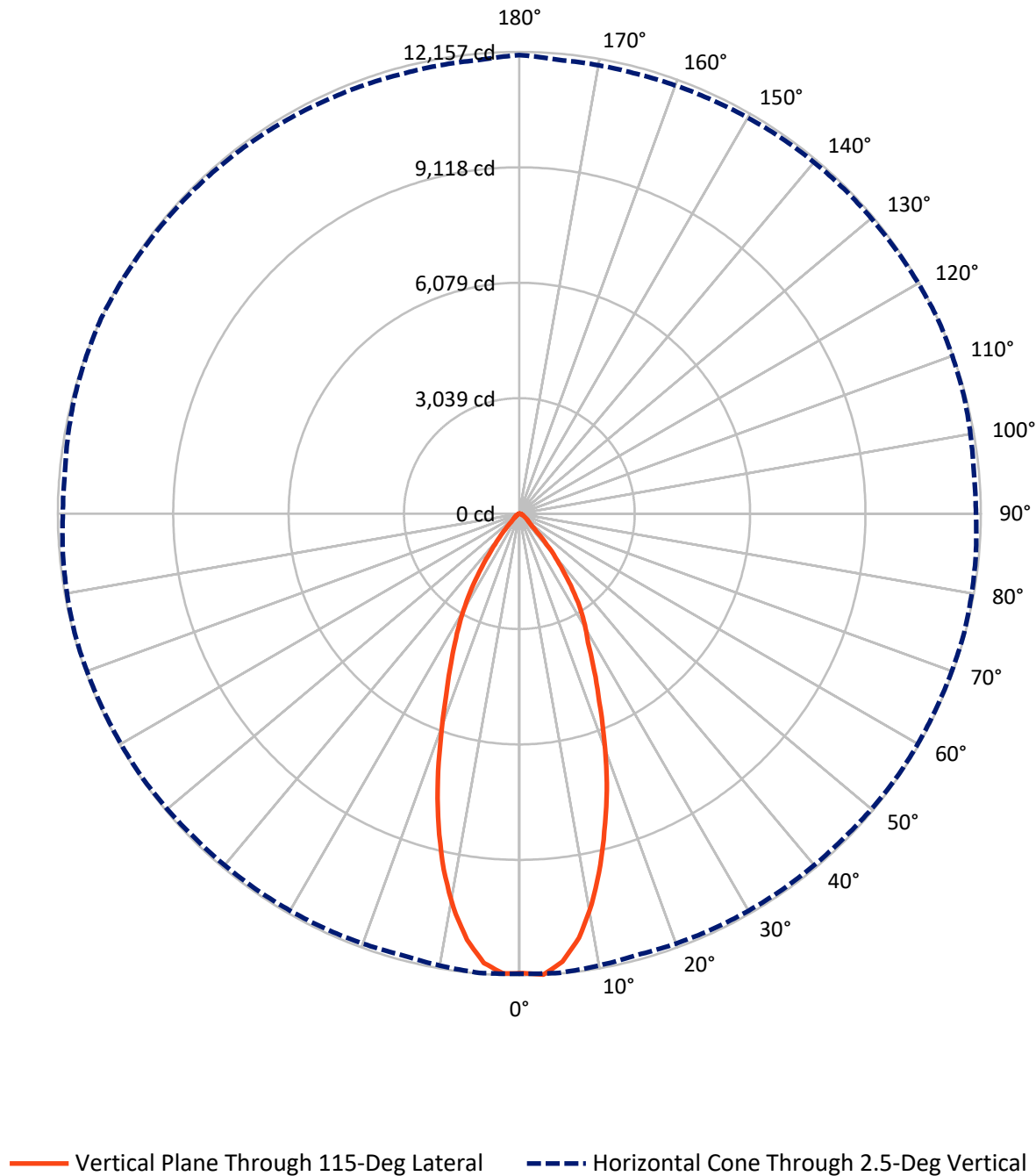
Based on 20 foot mounting height. Maximum calculated value = 30.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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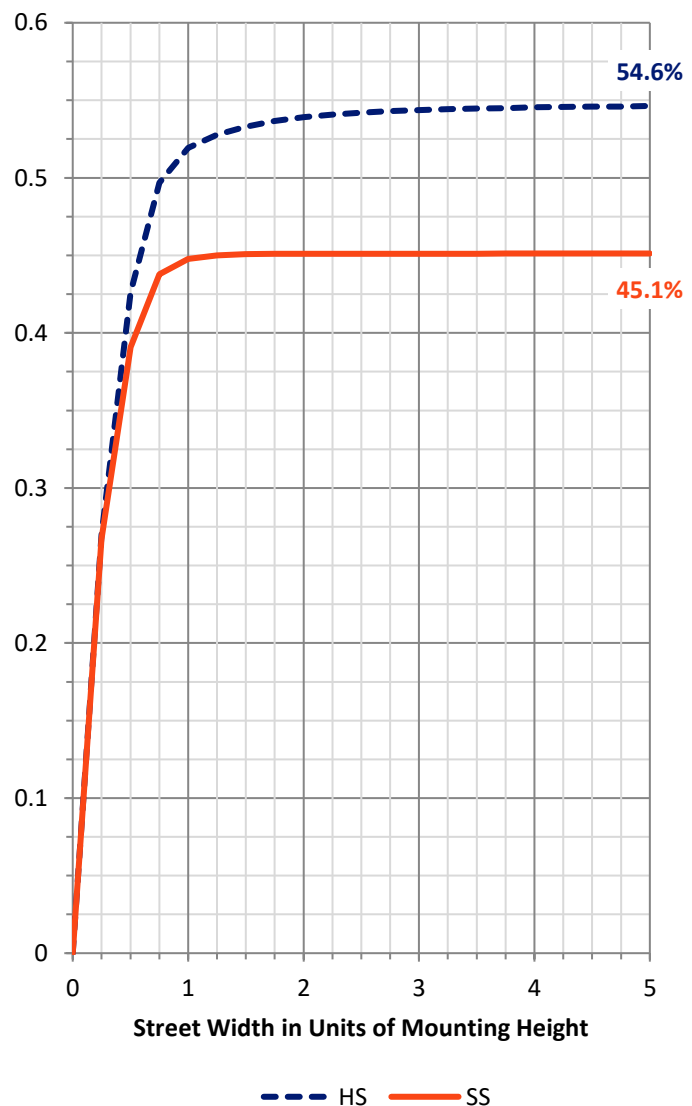
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4154.2	0.0	4154.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3373.1	0.0	3373.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	7527.3	0.0	7527.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.3	14.4
10°-20°	2293.7	30.5
20°-30°	2070.2	27.5
30°-40°	1370.0	18.2
40°-50°	410.4	5.5
50°-60°	164.6	2.2
60°-70°	85.3	1.1
70°-80°	37.0	0.5
80°-90°	10.8	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°	7527.3	100.0
0°-180°	7527.3	100.0

Coefficient of Utilization



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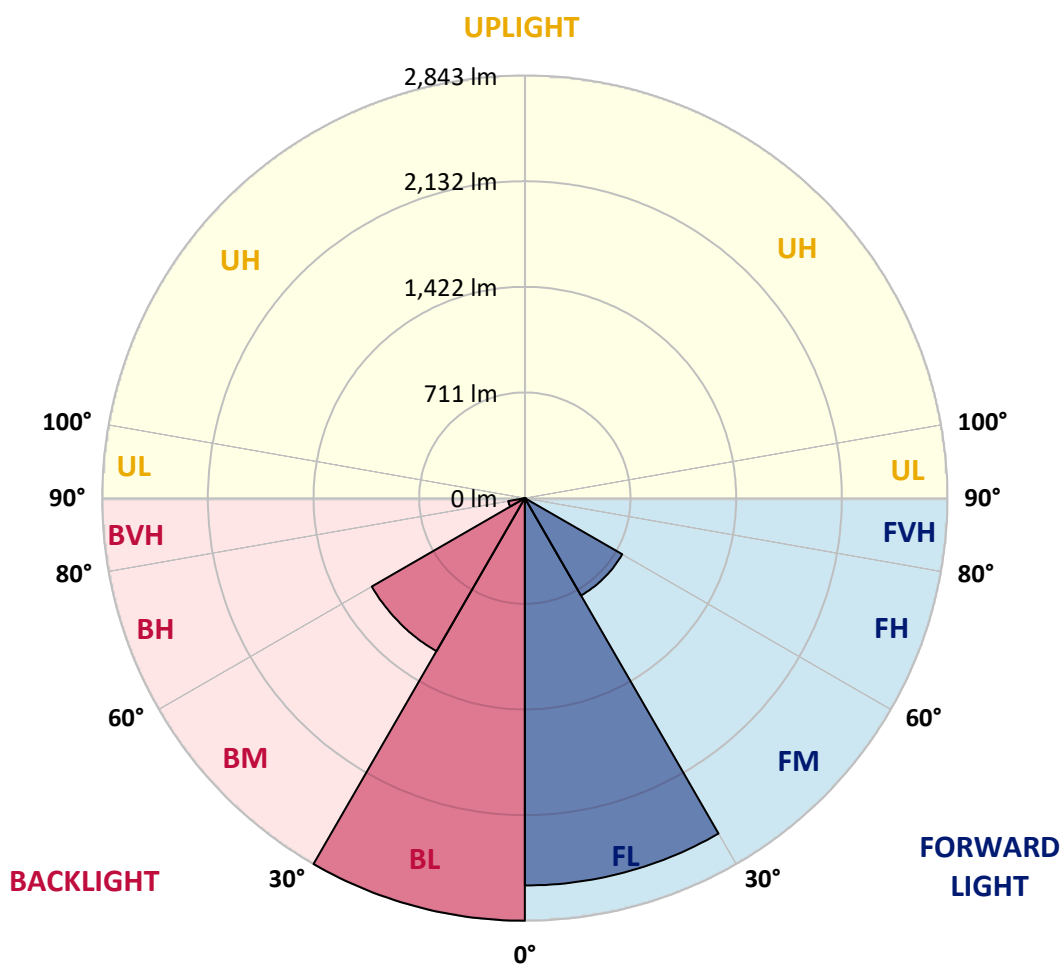
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2606.0	34.6			
FM	(30°-60°)	756.2	10.0			
FH	(60°-80°)	9.4	0.1			G0/660
FVH	(80°-90°)	1.5	0.0			G0/10
BL	(0°-30°)	2843.2	37.8	B4/5000		
BM	(30°-60°)	1188.8	15.8	B2/2500		
BH	(60°-80°)	112.9	1.5	B1/500		G1/500
BVH	(80°-90°)	9.2	0.1			G0/10
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°	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1
2.5°	12115.5	12137.0	12029.3	12066.2	12081.6	12086.2	12124.7	12118.6	12129.3	12072.4
5°	11955.4	11913.8	11833.8	11835.3	11830.7	11787.6	11875.3	11869.2	11850.7	11783.0
7.5°	11410.4	11470.5	11319.6	11316.5	11313.4	11261.1	11376.6	11305.7	11321.1	11224.1
10°	10613.0	10620.7	10486.7	10474.4	10485.2	10417.5	10551.4	10523.7	10552.9	10451.3
12.5°	9635.4	9678.5	9530.7	9509.2	9552.3	9456.9	9564.6	9578.5	9535.4	9521.5
15°	7557.2	7671.1	7951.3	8379.2	8490.1	8410.0	8496.2	8494.7	8513.2	8408.5
17.5°	5757.6	5768.3	5702.1	5906.9	7092.3	7477.1	7495.6	7349.3	7238.5	7200.0
20°	5026.3	5063.3	5003.2	5020.2	5209.5	6337.9	6381.0	6160.9	5971.5	5956.1
22.5°	4444.4	4467.5	4424.4	4438.2	4447.5	4579.9	5329.6	5135.6	5044.8	4975.5
25°	3951.8	3951.8	3928.7	3933.3	3924.1	3728.6	4113.4	4335.1	4282.8	4258.1
27.5°	3502.3	3508.4	3479.2	3496.1	3383.7	3068.1	3021.9	3676.2	3620.8	3576.1
30°	3075.8	3095.8	3068.1	3077.4	2832.6	2574.0	2441.6	3066.6	3135.9	3123.5
32.5°	2315.3	2406.2	2629.4	2638.6	2306.1	2107.5	2049.0	2461.6	2724.8	2701.7
35°	1434.8	1430.2	1439.4	1882.7	1768.8	1633.4	1654.9	1859.7	2156.8	2146.0
37.5°	1094.6	1093.0	1109.9	1065.3	1159.2	1239.3	1256.2	1256.2	1574.9	1576.4
40°	829.8	823.6	822.1	751.3	629.6	929.8	902.1	879.0	1094.6	1117.6
42.5°	529.6	548.0	534.2	457.2	411.0	508.0	566.5	548.0	675.8	692.8
45°	295.6	295.6	283.3	240.2	238.6	257.1	323.3	301.7	346.4	369.5
47.5°	143.2	140.1	153.9	189.4	197.0	190.9	230.9	240.2	261.7	283.3
50°	115.5	115.5	109.3	98.5	163.2	157.0	170.9	183.2	195.5	214.0
52.5°	97.0	97.0	89.3	83.1	93.9	120.1	121.6	144.7	143.2	169.3
55°	49.3	50.8	72.4	72.4	63.1	98.5	100.1	117.0	120.1	141.6
57.5°	4.6	6.2	9.2	44.6	49.3	53.9	75.4	86.2	100.1	109.3
60°	1.5	1.5	3.1	6.2	29.2	36.9	47.7	57.0	69.3	90.8
62.5°	0.0	0.0	1.5	3.1	6.2	23.1	26.2	29.2	41.6	57.0
65°	0.0	0.0	1.5	1.5	3.1	7.7	10.8	18.5	26.2	35.4
67.5°	0.0	0.0	1.5	1.5	3.1	4.6	6.2	9.2	12.3	23.1
70°	0.0	0.0	1.5	1.5	3.1	4.6	4.6	6.2	7.7	10.8
72.5°	0.0	0.0	1.5	1.5	3.1	6.2	4.6	4.6	6.2	7.7
75°	0.0	0.0	1.5	1.5	3.1	4.6	4.6	4.6	4.6	4.6
77.5°	0.0	0.0	1.5	1.5	3.1	4.6	4.6	4.6	3.1	3.1
80°	0.0	0.0	1.5	1.5	3.1	4.6	6.2	6.2	3.1	3.1
82.5°	0.0	0.0	1.5	3.1	3.1	7.7	9.2	7.7	3.1	1.5
85°	0.0	0.0	1.5	1.5	4.6	7.7	7.7	4.6	3.1	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	3.1	4.6	4.6	1.5	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°
12100.1	0°	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1	12100.1
12026.2	2.5°	12020.0	12113.9	12157.1	12112.4	12090.9	12060.1	12015.4	11984.6	11990.8
11746.0	5°	11719.8	11818.4	11852.2	11813.8	11781.4	11764.5	11756.8	11772.2	11812.2
11182.6	7.5°	11179.5	11242.6	11279.6	11261.1	11216.4	11267.2	11281.1	11271.9	11330.4
10420.6	10°	10423.6	10492.9	10459.0	10466.7	10414.4	10440.6	10432.9	10466.7	10525.2
9510.7	12.5°	9449.2	9515.4	9489.2	9484.6	9429.1	9478.4	9447.6	9484.6	9561.5
8365.4	15°	8425.4	8467.0	8450.1	8423.9	8374.6	8391.6	8487.0	8480.8	8514.7
7176.9	17.5°	7146.1	7346.3	7455.6	7478.7	7438.6	7472.5	7540.2	7523.3	7600.3
5923.8	20°	5913.0	6114.7	6384.1	6602.7	6607.3	6611.9	6655.1	6665.8	6732.0
4977.0	22.5°	4955.5	5098.7	5388.1	5677.5	5877.6	5919.2	5914.6	5930.0	5948.4
4224.3	25°	4213.5	4318.2	4582.9	4783.1	5134.1	5251.1	5284.9	5251.1	5261.8
3560.8	27.5°	3600.8	3760.9	3848.6	4062.6	4405.9	4676.9	4666.1	4646.1	4649.1
3098.9	30°	3097.4	3269.8	3399.1	3463.8	3722.4	4113.4	4153.4	4096.5	4098.0
2691.0	32.5°	2674.0	2727.9	2918.8	2971.1	3137.4	3493.0	3630.0	3586.9	3579.2
2152.2	35°	2215.3	2244.5	2332.3	2435.4	2533.9	2803.3	3029.6	2989.6	3009.6
1582.6	37.5°	1576.4	1696.5	1781.1	1865.8	1936.6	2106.0	2378.5	2341.5	2361.5
1120.7	40°	1111.5	1165.4	1311.6	1348.6	1453.2	1531.8	1762.7	1750.4	1775.0
695.8	42.5°	683.5	722.0	795.9	831.3	902.1	946.8	1082.2	1097.6	1130.0
384.9	45°	387.9	404.9	455.7	494.2	546.5	565.0	612.7	634.3	652.7
298.7	47.5°	295.6	314.0	347.9	381.8	424.9	440.3	474.2	506.5	523.4
230.9	50°	241.7	258.6	294.0	321.7	364.9	378.7	406.4	441.8	463.4
175.5	52.5°	183.2	207.8	250.9	280.2	324.8	341.8	367.9	403.3	423.3
144.7	55°	150.9	169.3	207.8	247.9	289.4	312.5	329.4	372.5	394.1
118.5	57.5°	129.3	143.2	167.8	215.5	250.9	284.8	298.7	338.7	360.2
93.9	60°	98.5	120.1	141.6	178.6	218.6	254.0	269.4	304.8	321.7
67.7	62.5°	81.6	95.4	123.2	143.2	187.8	224.8	240.2	272.5	284.8
44.6	65°	57.0	77.0	103.1	115.5	157.0	192.4	214.0	238.6	250.9
26.2	67.5°	33.9	57.0	81.6	98.5	127.8	163.2	186.3	209.4	220.1
15.4	70°	21.6	44.6	64.7	83.1	100.1	133.9	161.6	181.7	177.0
9.2	72.5°	12.3	27.7	47.7	67.7	83.1	112.4	138.6	153.9	109.3
6.2	75°	7.7	20.0	40.0	55.4	67.7	89.3	113.9	117.0	67.7
3.1	77.5°	6.2	15.4	30.8	44.6	46.2	66.2	80.1	90.8	50.8
3.1	80°	3.1	12.3	26.2	36.9	29.2	46.2	61.6	70.8	40.0
1.5	82.5°	3.1	7.7	20.0	26.2	21.6	35.4	44.6	50.8	33.9
1.5	85°	1.5	6.2	10.8	15.4	15.4	23.1	20.0	24.6	21.6
1.5	87.5°	1.5	3.1	6.2	7.7	6.2	9.2	10.8	10.8	9.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
12100.1
12073.9
11895.3
11388.9
10548.3
9575.4
8522.4
7588.0
6718.2
5914.6
5244.9
4653.8
4099.6
3597.7
3028.1
2378.5
1784.2
1166.9
651.2
531.1
472.6
437.2
400.3
369.5
324.8
286.3
250.9
218.6
163.2
97.0
63.1
50.8
41.6
36.9
21.6
7.7
0.0

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