

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: P636420

Luminaire Tested: **IFLD-S-SA2C-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636420
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7446.1 lumens
Efficiency: N/A
Efficacy: 68.8 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): 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



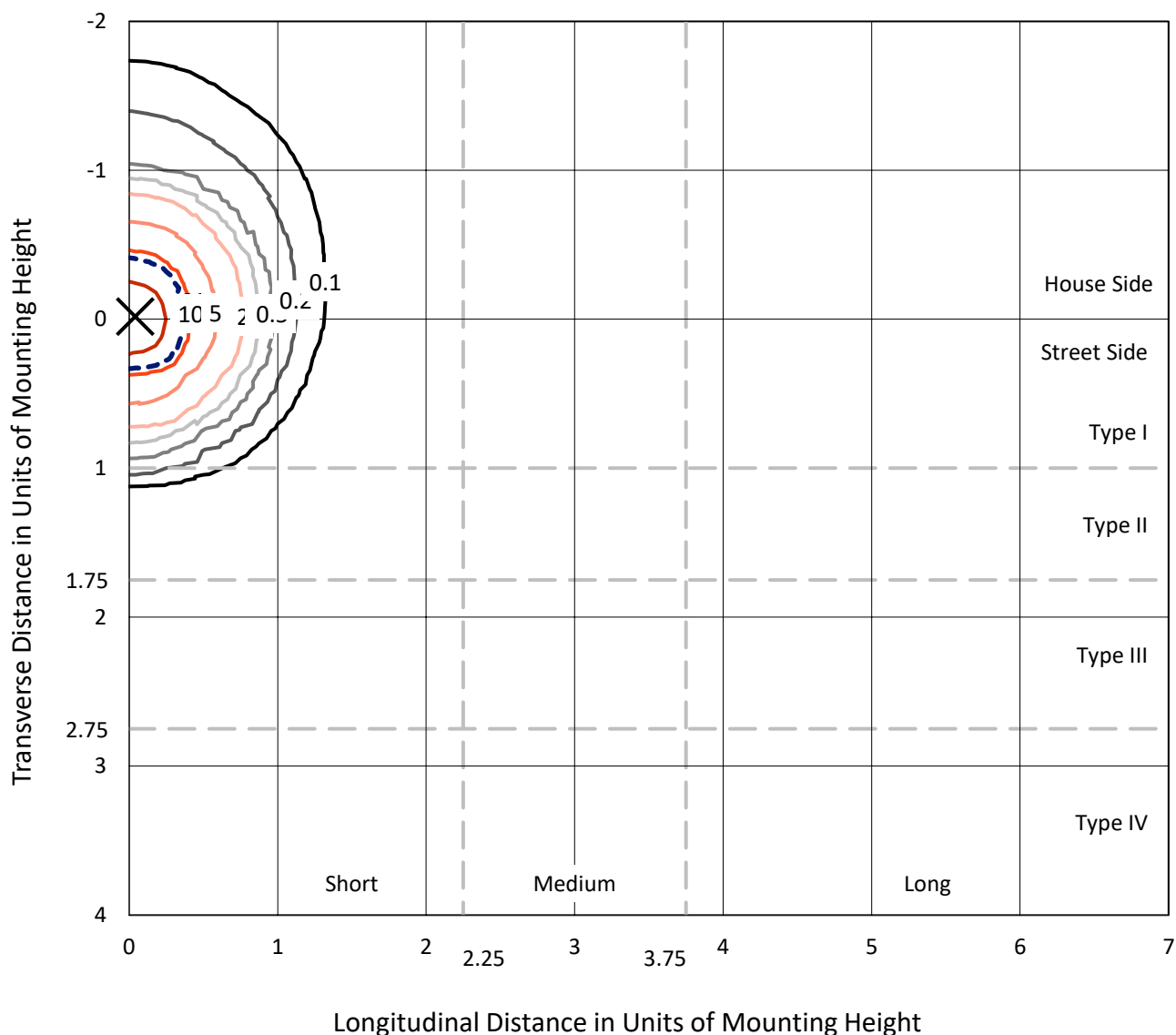
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

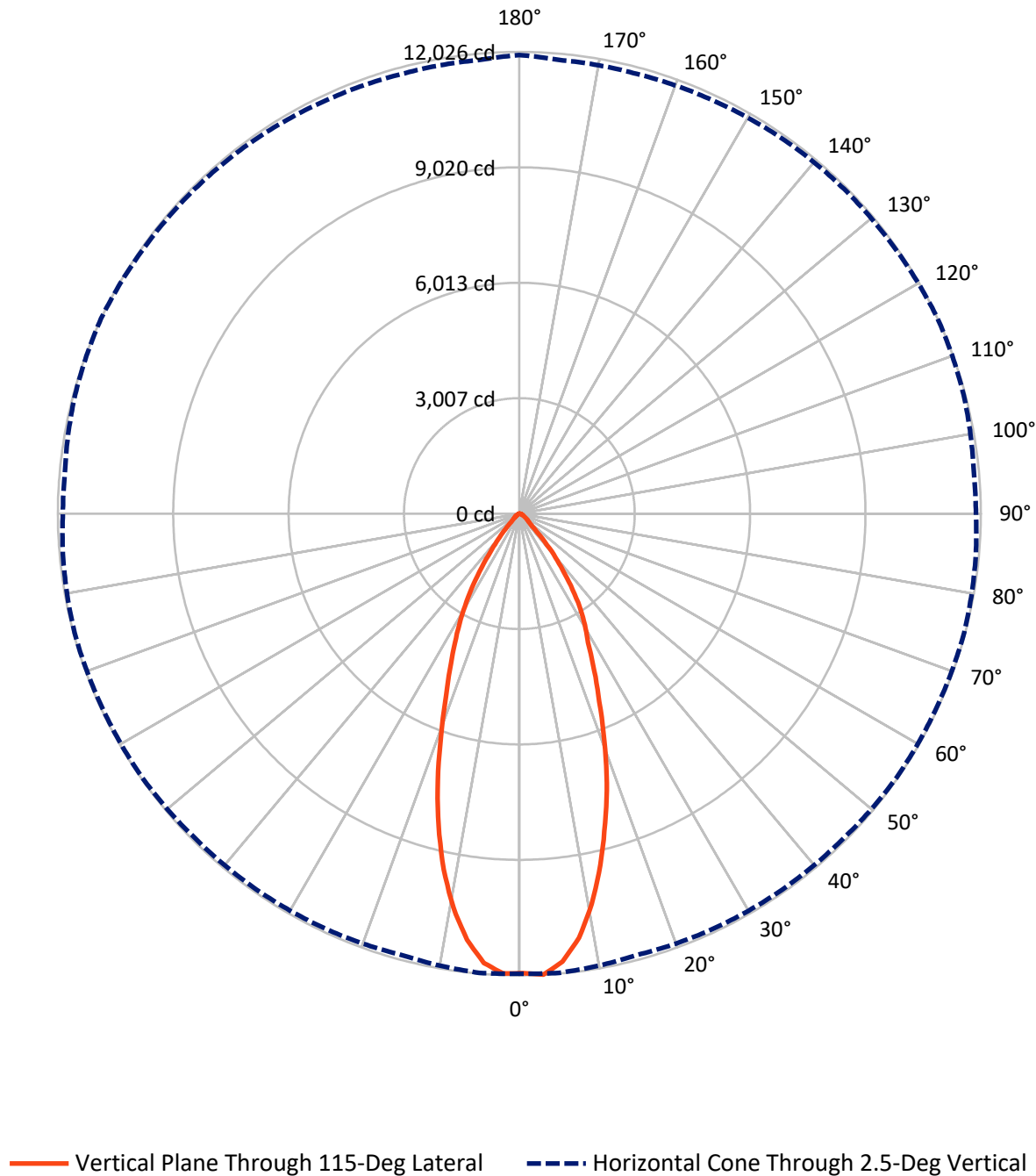


Based on 20 foot mounting height. Maximum calculated value = 29.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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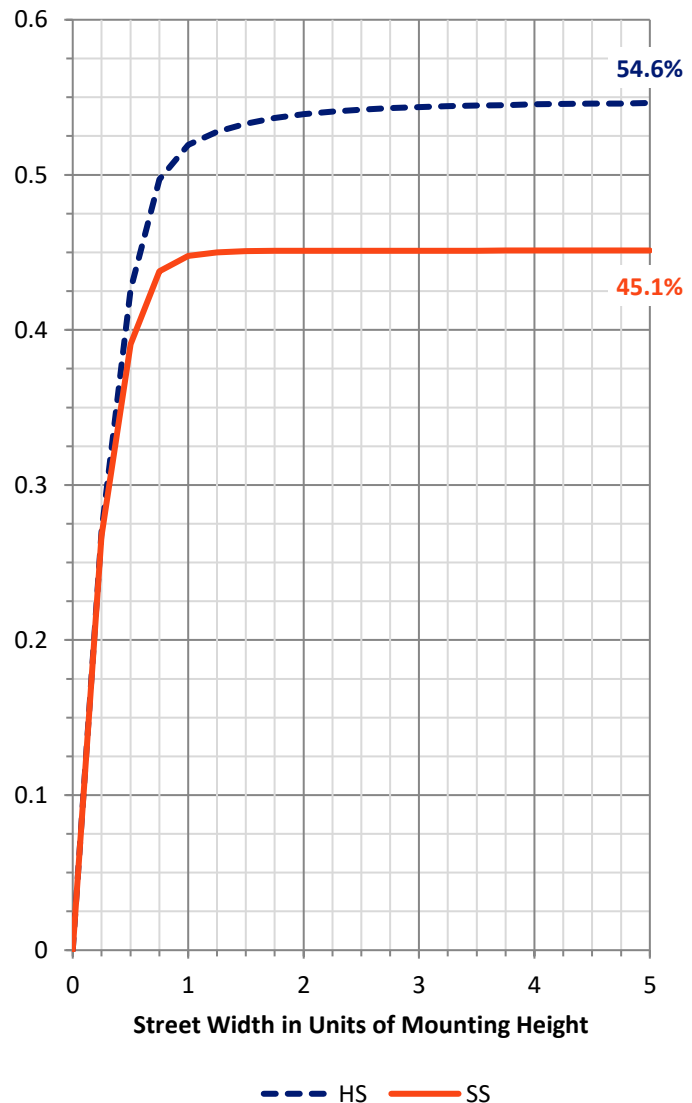
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4109.4	0.0	4109.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3336.7	0.0	3336.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	7446.1	0.0	7446.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.6	14.4
10°-20°	2269.0	30.5
20°-30°	2047.9	27.5
30°-40°	1355.2	18.2
40°-50°	406.0	5.5
50°-60°	162.8	2.2
60°-70°	84.3	1.1
70°-80°	36.6	0.5
80°-90°	10.6	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°	7446.1	100.0
0°-180°	7446.1	100.0

Coefficient of Utilization



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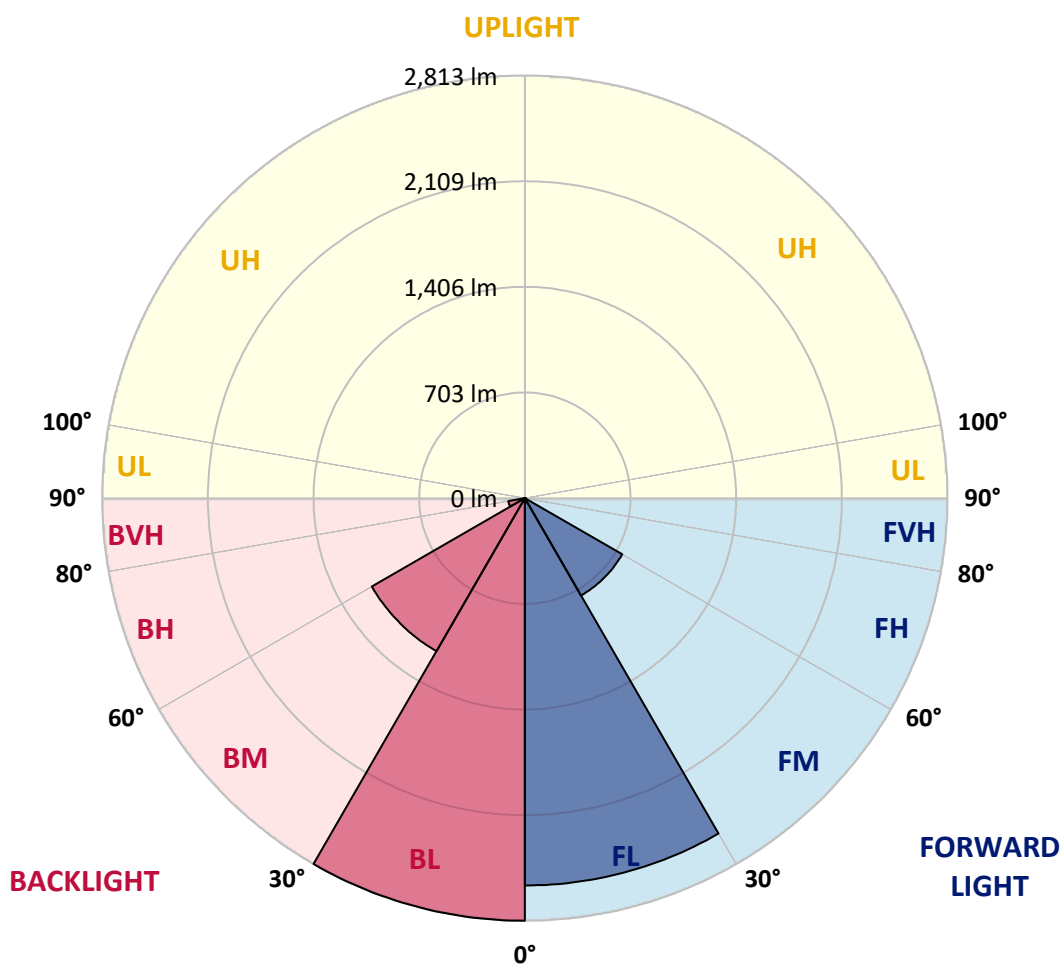
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2577.9	34.6			
FM	(30°-60°)	748.0	10.0			
FH	(60°-80°)	9.3	0.1			G0/660
FVH	(80°-90°)	1.5	0.0			G0/10
BL	(0°-30°)	2812.6	37.8	B4/5000		
BM	(30°-60°)	1176.0	15.8	B2/2500		
BH	(60°-80°)	111.7	1.5	B1/500		G1/500
BVH	(80°-90°)	9.1	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°	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6
2.5°	11984.9	12006.2	11899.6	11936.1	11951.4	11955.9	11994.0	11987.9	11998.6	11942.2
5°	11826.5	11785.4	11706.2	11707.7	11703.1	11660.5	11747.3	11741.2	11722.9	11655.9
7.5°	11287.4	11346.8	11197.6	11194.5	11191.5	11139.7	11253.9	11183.8	11199.1	11103.1
10°	10498.6	10506.2	10373.7	10361.5	10372.2	10305.2	10437.6	10410.2	10439.2	10338.7
12.5°	9531.5	9574.2	9428.0	9406.7	9449.3	9354.9	9461.5	9475.2	9432.6	9418.9
15°	7475.7	7588.4	7865.5	8288.9	8398.5	8319.4	8404.6	8403.1	8421.4	8317.8
17.5°	5695.5	5706.1	5640.7	5843.2	7015.8	7396.5	7414.8	7270.1	7160.5	7122.4
20°	4972.1	5008.7	4949.3	4966.0	5153.3	6269.6	6312.2	6094.5	5907.2	5891.9
22.5°	4396.5	4419.3	4376.7	4390.4	4399.5	4530.5	5272.1	5080.2	4990.4	4921.9
25°	3909.2	3909.2	3886.3	3890.9	3881.8	3688.4	4069.1	4288.4	4236.6	4212.2
27.5°	3464.5	3470.6	3441.7	3458.4	3347.2	3035.0	2989.4	3636.6	3581.8	3537.6
30°	3042.7	3062.5	3035.0	3044.2	2802.1	2546.2	2415.2	3033.5	3102.1	3089.9
32.5°	2290.4	2380.2	2601.0	2610.2	2281.2	2084.8	2026.9	2435.0	2695.5	2672.6
35°	1419.3	1414.7	1423.9	1862.5	1749.8	1615.7	1637.1	1839.6	2133.5	2122.9
37.5°	1082.7	1081.2	1098.0	1053.8	1146.7	1225.9	1242.6	1242.6	1557.9	1559.4
40°	820.8	814.7	813.2	743.2	622.8	919.8	892.4	869.6	1082.7	1105.6
42.5°	523.9	542.1	528.4	452.3	406.6	502.5	560.4	542.1	668.5	685.3
45°	292.4	292.4	280.2	237.6	236.0	254.3	319.8	298.5	342.6	365.5
47.5°	141.6	138.6	152.3	187.3	194.9	188.8	228.4	237.6	258.9	280.2
50°	114.2	114.2	108.1	97.5	161.4	155.3	169.0	181.2	193.4	211.7
52.5°	95.9	95.9	88.3	82.2	92.9	118.8	120.3	143.1	141.6	167.5
55°	48.7	50.3	71.6	71.6	62.4	97.5	99.0	115.7	118.8	140.1
57.5°	4.6	6.1	9.1	44.2	48.7	53.3	74.6	85.3	99.0	108.1
60°	1.5	1.5	3.0	6.1	28.9	36.5	47.2	56.3	68.5	89.8
62.5°	0.0	0.0	1.5	3.0	6.1	22.8	25.9	28.9	41.1	56.3
65°	0.0	0.0	1.5	1.5	3.0	7.6	10.7	18.3	25.9	35.0
67.5°	0.0	0.0	1.5	1.5	3.0	4.6	6.1	9.1	12.2	22.8
70°	0.0	0.0	1.5	1.5	3.0	4.6	4.6	6.1	7.6	10.7
72.5°	0.0	0.0	1.5	1.5	3.0	6.1	4.6	4.6	6.1	7.6
75°	0.0	0.0	1.5	1.5	3.0	4.6	4.6	4.6	4.6	4.6
77.5°	0.0	0.0	1.5	1.5	3.0	4.6	4.6	4.6	3.0	3.0
80°	0.0	0.0	1.5	1.5	3.0	4.6	6.1	6.1	3.0	3.0
82.5°	0.0	0.0	1.5	3.0	3.0	7.6	9.1	7.6	3.0	1.5
85°	0.0	0.0	1.5	1.5	4.6	7.6	7.6	4.6	3.0	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	3.0	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°
11969.6	0°	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6	11969.6
11896.5	2.5°	11890.5	11983.3	12026.0	11981.8	11960.5	11930.0	11885.9	11855.4	11861.5
11619.4	5°	11593.5	11691.0	11724.5	11686.4	11654.4	11637.7	11630.0	11645.3	11684.9
11062.0	7.5°	11059.0	11121.4	11158.0	11139.7	11095.5	11145.8	11159.5	11150.3	11208.2
10308.2	10°	10311.3	10379.8	10346.3	10353.9	10302.1	10328.0	10320.4	10353.9	10411.8
9408.2	12.5°	9347.3	9412.8	9386.9	9382.3	9327.5	9376.2	9345.8	9382.3	9458.5
8275.2	15°	8334.6	8375.7	8359.0	8333.1	8284.3	8301.1	8395.5	8389.4	8422.9
7099.5	17.5°	7069.1	7267.1	7375.2	7398.0	7358.4	7391.9	7458.9	7442.2	7518.3
5859.9	20°	5849.3	6048.8	6315.3	6531.5	6536.1	6540.7	6583.3	6594.0	6659.4
4923.4	22.5°	4902.1	5043.7	5330.0	5616.3	5814.3	5855.4	5850.8	5866.0	5884.3
4178.7	25°	4168.1	4271.6	4533.5	4731.5	5078.7	5194.5	5228.0	5194.5	5205.1
3522.4	27.5°	3562.0	3720.3	3807.1	4018.8	4358.4	4626.4	4615.8	4596.0	4599.0
3065.5	30°	3064.0	3234.5	3362.5	3426.4	3682.3	4069.1	4108.7	4052.3	4053.8
2662.0	32.5°	2645.2	2698.5	2887.3	2939.1	3103.6	3455.4	3590.9	3548.3	3540.6
2129.0	35°	2191.4	2220.3	2307.1	2409.2	2506.6	2773.1	2997.0	2957.4	2977.2
1565.5	37.5°	1559.4	1678.2	1761.9	1845.7	1915.8	2083.3	2352.8	2316.3	2336.1
1108.6	40°	1099.5	1152.8	1297.5	1334.0	1437.6	1515.2	1743.7	1731.5	1755.9
688.3	42.5°	676.1	714.2	787.3	822.3	892.4	936.6	1070.6	1085.8	1117.8
380.7	45°	383.8	400.5	450.8	488.8	540.6	558.9	606.1	627.4	645.7
295.4	47.5°	292.4	310.7	344.2	377.7	420.3	435.5	469.0	501.0	517.8
228.4	50°	239.1	255.8	290.9	318.3	360.9	374.6	402.0	437.1	458.4
173.6	52.5°	181.2	205.6	248.2	277.2	321.3	338.1	364.0	399.0	418.8
143.1	55°	149.2	167.5	205.6	245.2	286.3	309.1	325.9	368.5	389.9
117.3	57.5°	127.9	141.6	166.0	213.2	248.2	281.7	295.4	335.0	356.3
92.9	60°	97.5	118.8	140.1	176.7	216.2	251.3	266.5	301.5	318.3
67.0	62.5°	80.7	94.4	121.8	141.6	185.8	222.3	237.6	269.5	281.7
44.2	65°	56.3	76.1	102.0	114.2	155.3	190.4	211.7	236.0	248.2
25.9	67.5°	33.5	56.3	80.7	97.5	126.4	161.4	184.3	207.1	217.8
15.2	70°	21.3	44.2	64.0	82.2	99.0	132.5	159.9	179.7	175.1
9.1	72.5°	12.2	27.4	47.2	67.0	82.2	111.2	137.1	152.3	108.1
6.1	75°	7.6	19.8	39.6	54.8	67.0	88.3	112.7	115.7	67.0
3.0	77.5°	6.1	15.2	30.5	44.2	45.7	65.5	79.2	89.8	50.3
3.0	80°	3.0	12.2	25.9	36.5	28.9	45.7	60.9	70.1	39.6
1.5	82.5°	3.0	7.6	19.8	25.9	21.3	35.0	44.2	50.3	33.5
1.5	85°	1.5	6.1	10.7	15.2	15.2	22.8	19.8	24.4	21.3
1.5	87.5°	1.5	3.0	6.1	7.6	6.1	9.1	10.7	10.7	9.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
11969.6
11943.8
11767.1
11266.1
10434.6
9472.2
8430.5
7506.2
6645.7
5850.8
5188.4
4603.6
4055.4
3558.9
2995.5
2352.8
1765.0
1154.3
644.2
525.4
467.5
432.5
395.9
365.5
321.3
283.3
248.2
216.2
161.4
95.9
62.4
50.3
41.1
36.5
21.3
7.6
0.0

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