

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: P636485

Luminaire Tested: **IFLD-S-SA3E-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14820.5 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 232.1
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

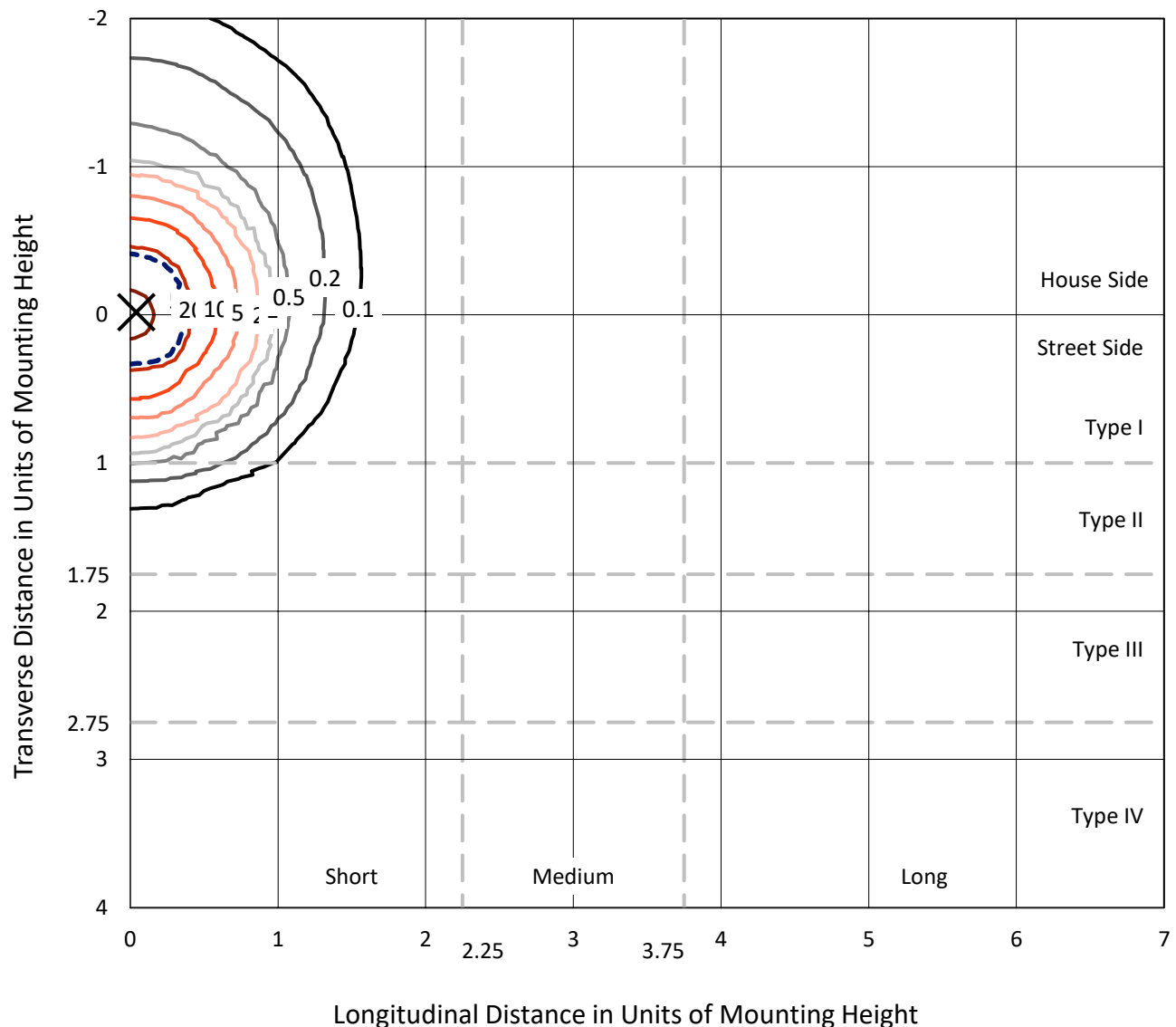


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

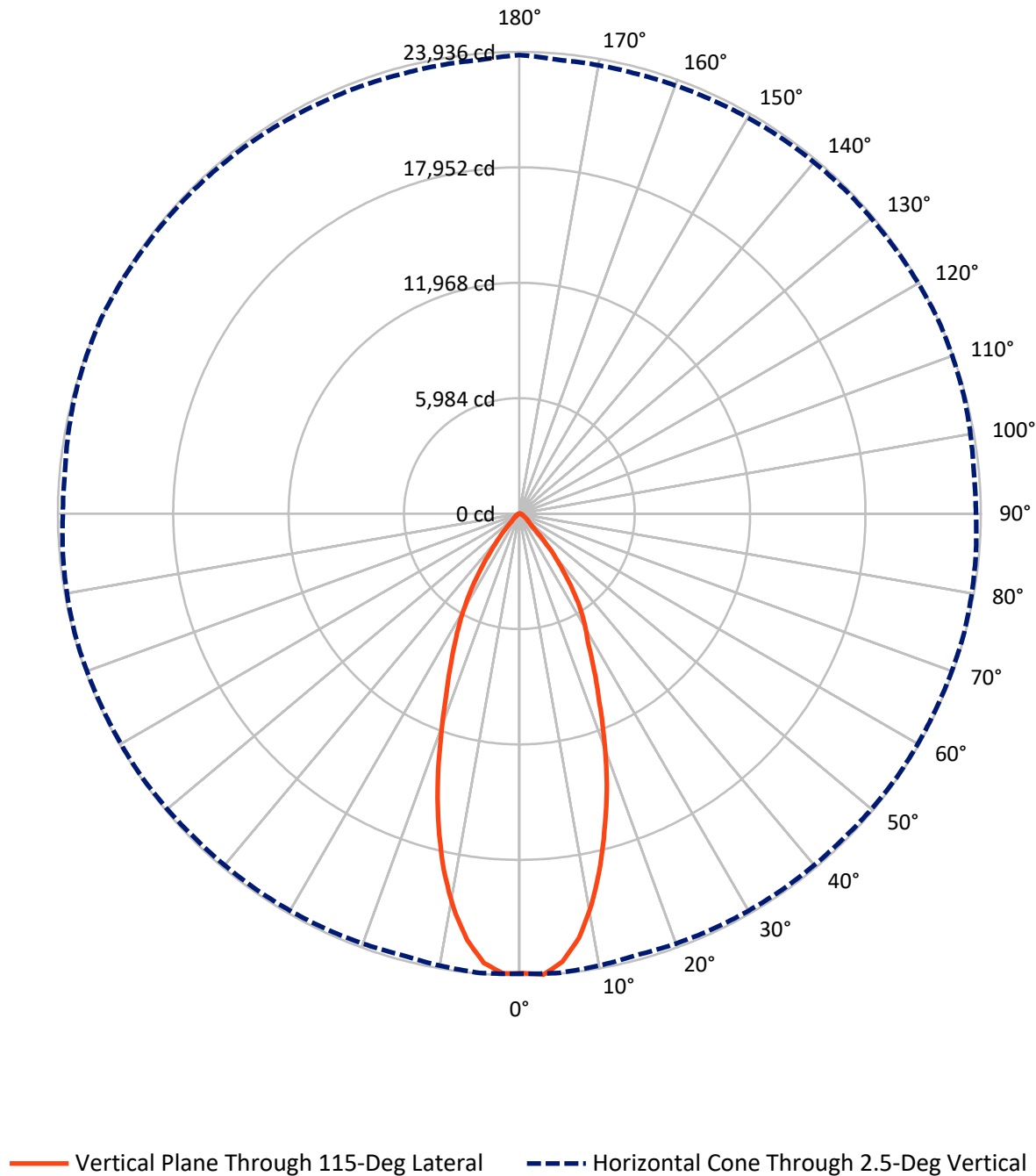


Based on 20 foot mounting height. Maximum calculated value = 59.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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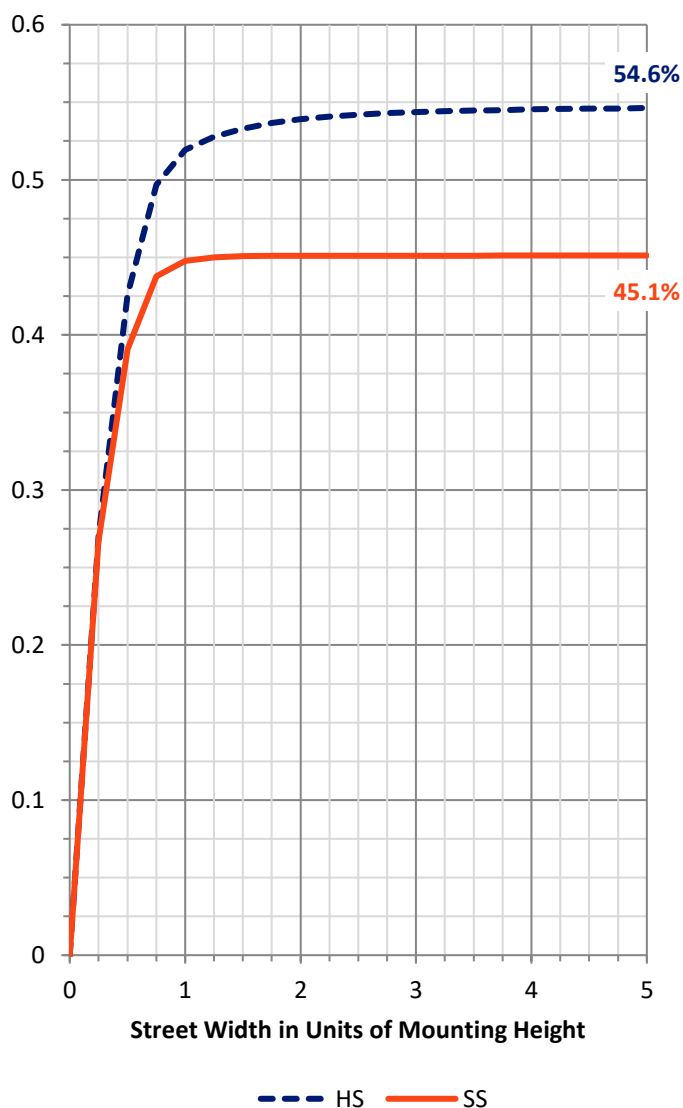
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8179.2	0.0	8179.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	6641.3	0.0	6641.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	14820.5	0.0	14820.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2136.8	14.4
10°-20°	4516.1	30.5
20°-30°	4076.1	27.5
30°-40°	2697.4	18.2
40°-50°	808.0	5.5
50°-60°	324.1	2.2
60°-70°	167.8	1.1
70°-80°	72.9	0.5
80°-90°	21.2	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°	14820.5	100.0
0°-180°	14820.5	100.0

Coefficient of Utilization



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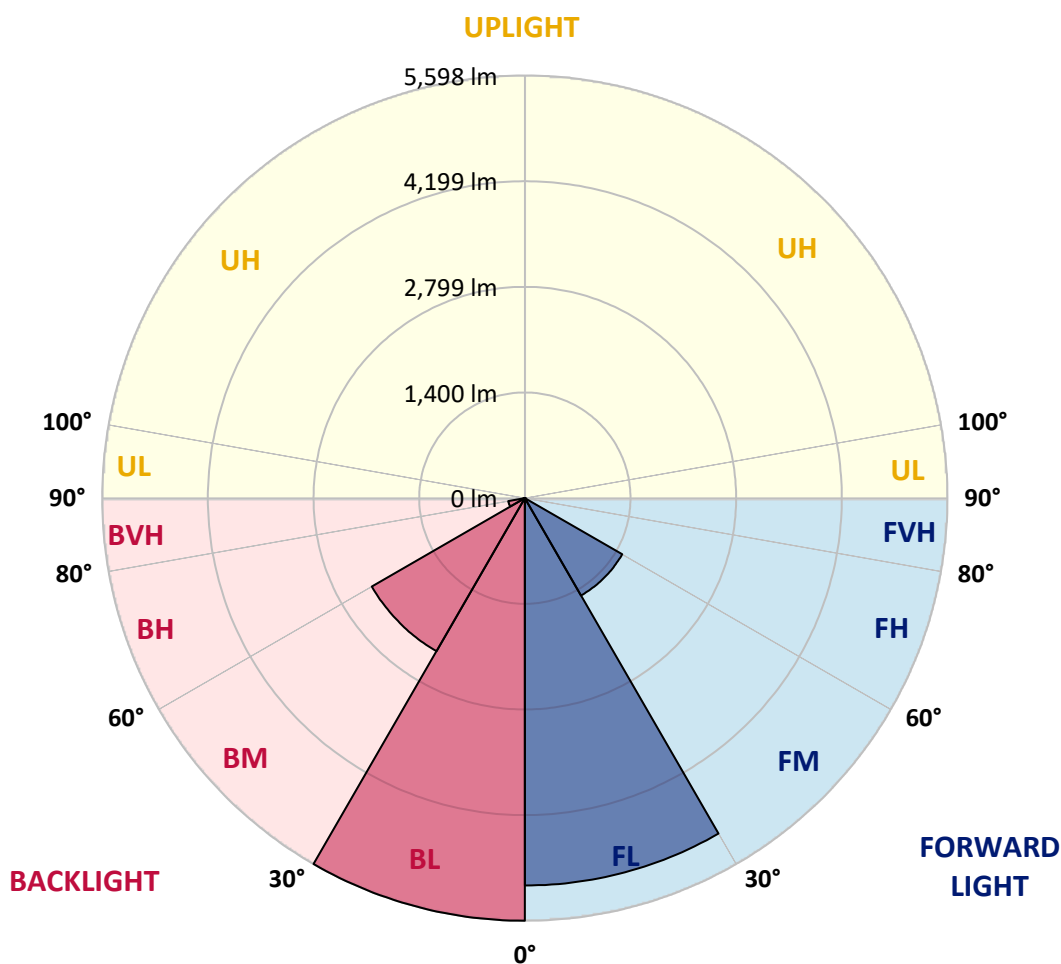
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5131.0	34.6			
FM	(30°-60°)	1488.8	10.0			
FH	(60°-80°)	18.4	0.1			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	5598.1	37.8	B5		
BM	(30°-60°)	2340.7	15.8	B2/2500		
BH	(60°-80°)	222.3	1.5	B1/500		G1/500
BVH	(80°-90°)	18.1	0.1			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°	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9
2.5°	23854.3	23896.7	23684.5	23757.3	23787.6	23796.7	23872.4	23860.3	23881.5	23769.4
5°	23539.0	23457.2	23299.6	23302.6	23293.5	23208.6	23381.4	23369.3	23332.9	23199.6
7.5°	22466.0	22584.2	22287.2	22281.1	22275.1	22172.0	22399.4	22259.9	22290.2	22099.3
10°	20896.0	20911.1	20647.4	20623.2	20644.4	20511.0	20774.7	20720.2	20777.8	20577.7
12.5°	18971.3	19056.1	18765.1	18722.7	18807.6	18619.7	18831.8	18859.1	18774.2	18747.0
15°	14879.4	15103.7	15655.3	16497.9	16716.2	16558.6	16728.3	16725.3	16761.6	16555.5
17.5°	11336.1	11357.3	11227.0	11630.1	13964.0	14721.7	14758.1	14470.2	14251.9	14176.2
20°	9896.3	9969.1	9850.9	9884.2	10257.0	12478.8	12563.6	12130.2	11757.4	11727.1
22.5°	8750.6	8796.1	8711.2	8738.5	8756.7	9017.3	10493.4	10111.5	9932.7	9796.3
25°	7780.7	7780.7	7735.2	7744.3	7726.1	7341.2	8098.9	8535.4	8432.3	8383.8
27.5°	6895.6	6907.7	6850.1	6883.5	6662.2	6040.9	5949.9	7238.1	7129.0	7041.1
30°	6056.0	6095.4	6040.9	6059.0	5577.1	5067.9	4807.2	6037.8	6174.2	6150.0
32.5°	4558.7	4737.5	5177.0	5195.2	4540.5	4149.5	4034.3	4846.6	5364.9	5319.5
35°	2824.9	2815.8	2834.0	3707.0	3482.7	3215.9	3258.4	3661.5	4246.5	4225.3
37.5°	2155.1	2152.0	2185.4	2097.5	2282.4	2440.0	2473.3	2473.3	3100.7	3103.8
40°	1633.7	1621.6	1618.6	1479.1	1239.7	1830.7	1776.2	1730.7	2155.1	2200.5
42.5°	1042.7	1079.0	1051.8	900.2	809.3	1000.2	1115.4	1079.0	1330.6	1364.0
45°	582.0	582.0	557.7	472.8	469.8	506.2	636.5	594.1	682.0	727.4
47.5°	281.9	275.8	303.1	372.8	388.0	375.8	454.7	472.8	515.3	557.7
50°	227.3	227.3	215.2	194.0	321.3	309.2	336.4	360.7	384.9	421.3
52.5°	191.0	191.0	175.8	163.7	184.9	236.4	239.5	284.9	281.9	333.4
55°	97.0	100.0	142.5	142.5	124.3	194.0	197.0	230.4	236.4	278.9
57.5°	9.1	12.1	18.2	87.9	97.0	106.1	148.5	169.7	197.0	215.2
60°	3.0	3.0	6.1	12.1	57.6	72.7	94.0	112.1	136.4	178.8
62.5°	0.0	0.0	3.0	6.1	12.1	45.5	51.5	57.6	81.8	112.1
65°	0.0	0.0	3.0	3.0	6.1	15.2	21.2	36.4	51.5	69.7
67.5°	0.0	0.0	3.0	3.0	6.1	9.1	12.1	18.2	24.2	45.5
70°	0.0	0.0	3.0	3.0	6.1	9.1	9.1	12.1	15.2	21.2
72.5°	0.0	0.0	3.0	3.0	6.1	12.1	9.1	9.1	12.1	15.2
75°	0.0	0.0	3.0	3.0	6.1	9.1	9.1	9.1	9.1	9.1
77.5°	0.0	0.0	3.0	3.0	6.1	9.1	9.1	9.1	6.1	6.1
80°	0.0	0.0	3.0	3.0	6.1	9.1	12.1	12.1	6.1	6.1
82.5°	0.0	0.0	3.0	6.1	6.1	15.2	18.2	15.2	6.1	3.0
85°	0.0	0.0	3.0	3.0	9.1	15.2	15.2	9.1	6.1	3.0
87.5°	0.0	0.0	0.0	3.0	3.0	6.1	9.1	9.1	3.0	3.0
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°
23823.9	0°	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9	23823.9
23678.5	2.5°	23666.3	23851.2	23936.1	23848.2	23805.8	23745.1	23657.2	23596.6	23608.7
23126.8	5°	23075.3	23269.3	23335.9	23260.2	23196.5	23163.2	23148.0	23178.3	23257.1
22017.4	7.5°	22011.4	22135.7	22208.4	22172.0	22084.1	22184.2	22211.4	22193.2	22308.4
20517.1	10°	20523.1	20659.5	20592.9	20608.0	20505.0	20556.5	20541.3	20608.0	20723.2
18725.7	12.5°	18604.5	18734.8	18683.3	18674.2	18565.1	18662.1	18601.5	18674.2	18825.8
16470.7	15°	16588.9	16670.7	16637.4	16585.8	16488.8	16522.2	16710.1	16698.0	16764.7
14130.7	17.5°	14070.1	14464.1	14679.3	14724.8	14646.0	14712.6	14846.0	14812.7	14964.2
11663.4	20°	11642.2	12039.3	12569.7	13000.1	13009.2	13018.3	13103.2	13124.4	13254.7
9799.3	22.5°	9756.9	10038.8	10608.6	11178.5	11572.5	11654.3	11645.2	11675.6	11711.9
8317.2	25°	8295.9	8502.1	9023.4	9417.4	10108.5	10338.9	10405.5	10338.9	10360.1
7010.8	27.5°	7089.6	7404.8	7577.6	7998.9	8674.8	9208.3	9187.1	9147.7	9153.7
6101.5	30°	6098.4	6437.9	6692.5	6819.8	7329.0	8098.9	8177.7	8065.6	8068.6
5298.3	32.5°	5264.9	5371.0	5746.8	5849.9	6177.3	6877.4	7147.2	7062.3	7047.2
4237.4	35°	4361.7	4419.3	4592.0	4795.1	4989.1	5519.5	5965.1	5886.3	5925.7
3115.9	37.5°	3103.8	3340.2	3506.9	3673.6	3813.0	4146.5	4683.0	4610.2	4649.6
2206.6	40°	2188.4	2294.5	2582.4	2655.2	2861.3	3015.9	3470.5	3446.3	3494.8
1370.0	42.5°	1345.8	1421.6	1567.0	1636.8	1776.2	1864.1	2130.8	2161.1	2224.8
757.8	45°	763.8	797.2	897.2	973.0	1076.0	1112.4	1206.4	1248.8	1285.2
588.0	47.5°	582.0	618.3	685.0	751.7	836.6	866.9	933.6	997.2	1030.6
454.7	50°	475.9	509.2	578.9	633.5	718.4	745.6	800.2	869.9	912.3
345.5	52.5°	360.7	409.2	494.1	551.6	639.5	672.9	724.4	794.1	833.5
284.9	55°	297.0	333.4	409.2	488.0	569.8	615.3	648.6	733.5	775.9
233.4	57.5°	254.6	281.9	330.4	424.3	494.1	560.7	588.0	666.8	709.3
184.9	60°	194.0	236.4	278.9	351.6	430.4	500.1	530.4	600.1	633.5
133.4	62.5°	160.6	187.9	242.5	281.9	369.8	442.5	472.8	536.5	560.7
87.9	65°	112.1	151.6	203.1	227.3	309.2	378.9	421.3	469.8	494.1
51.5	67.5°	66.7	112.1	160.6	194.0	251.6	321.3	366.8	412.2	433.4
30.3	70°	42.4	87.9	127.3	163.7	197.0	263.7	318.3	357.7	348.6
18.2	72.5°	24.2	54.6	94.0	133.4	163.7	221.3	272.8	303.1	215.2
12.1	75°	15.2	39.4	78.8	109.1	133.4	175.8	224.3	230.4	133.4
6.1	77.5°	12.1	30.3	60.6	87.9	90.9	130.3	157.6	178.8	100.0
6.1	80°	6.1	24.2	51.5	72.7	57.6	90.9	121.2	139.4	78.8
3.0	82.5°	6.1	15.2	39.4	51.5	42.4	69.7	87.9	100.0	66.7
3.0	85°	3.0	12.1	21.2	30.3	30.3	45.5	39.4	48.5	42.4
3.0	87.5°	3.0	6.1	12.1	15.2	12.1	18.2	21.2	21.2	18.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
23823.9
23772.4
23420.8
22423.6
20768.7
18853.0
16779.8
14940.0
13227.4
11645.2
10326.7
9162.8
8071.6
7083.5
5962.0
4683.0
3513.0
2297.5
1282.1
1045.7
930.5
860.8
788.1
727.4
639.5
563.8
494.1
430.4
321.3
191.0
124.3
100.0
81.8
72.7
42.4
15.2
0.0

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