

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: P637671

Luminaire Tested: **IFLD-S-SA3B-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637671
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16349.7 lumens
Efficiency: N/A
Efficacy: 133.6 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): 122.4
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



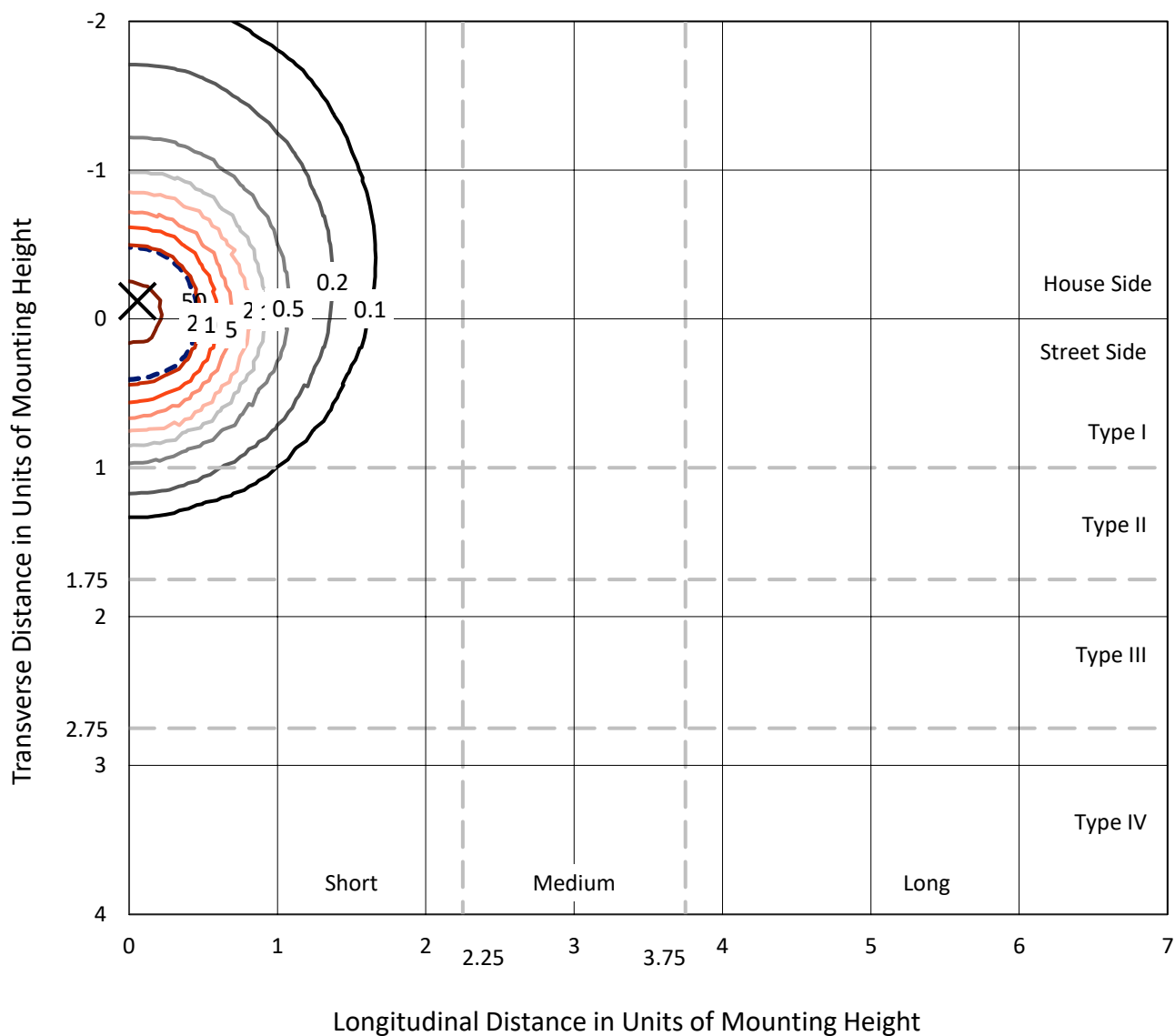
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

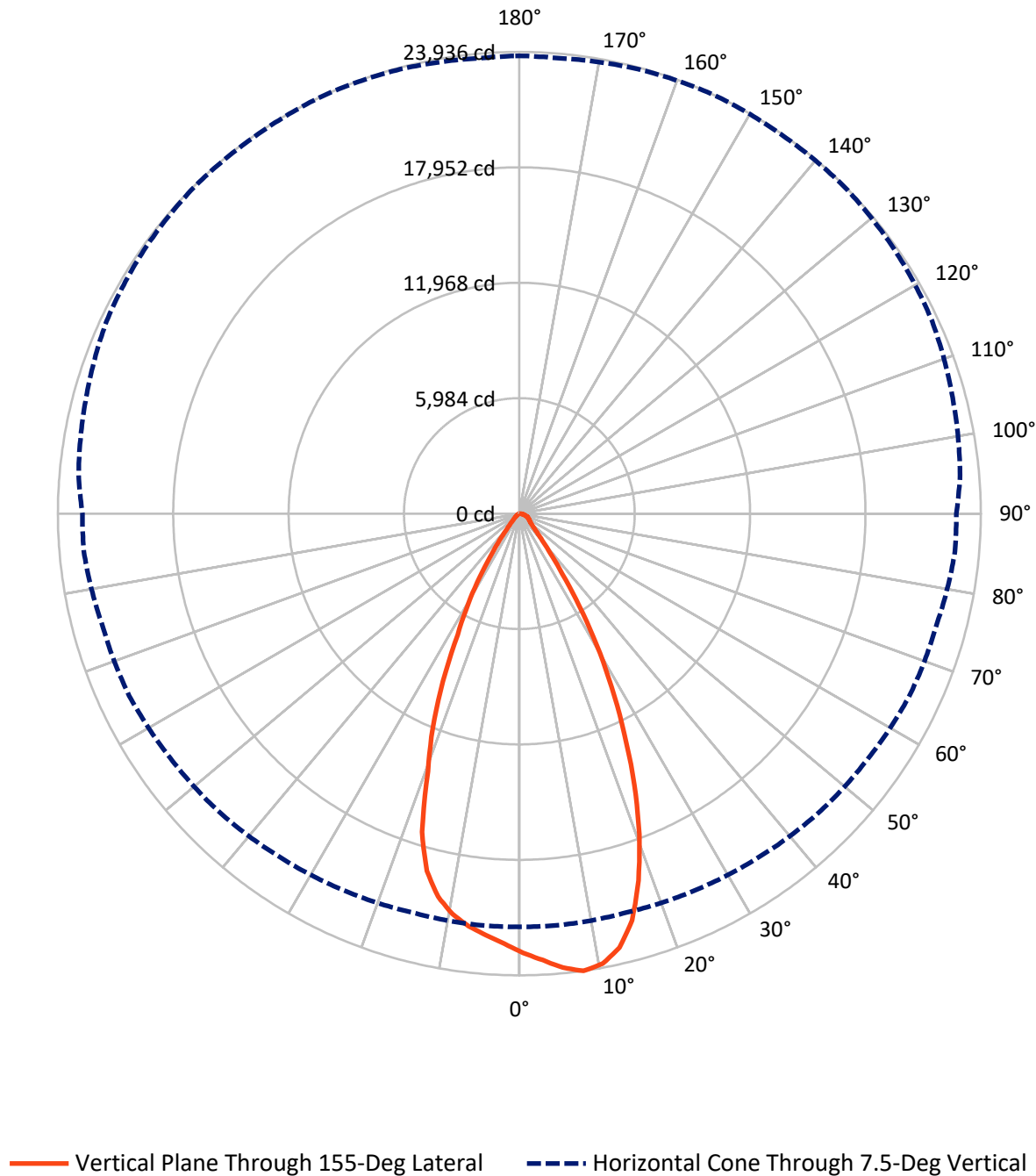


Based on 20 foot mounting height. Maximum calculated value = 57.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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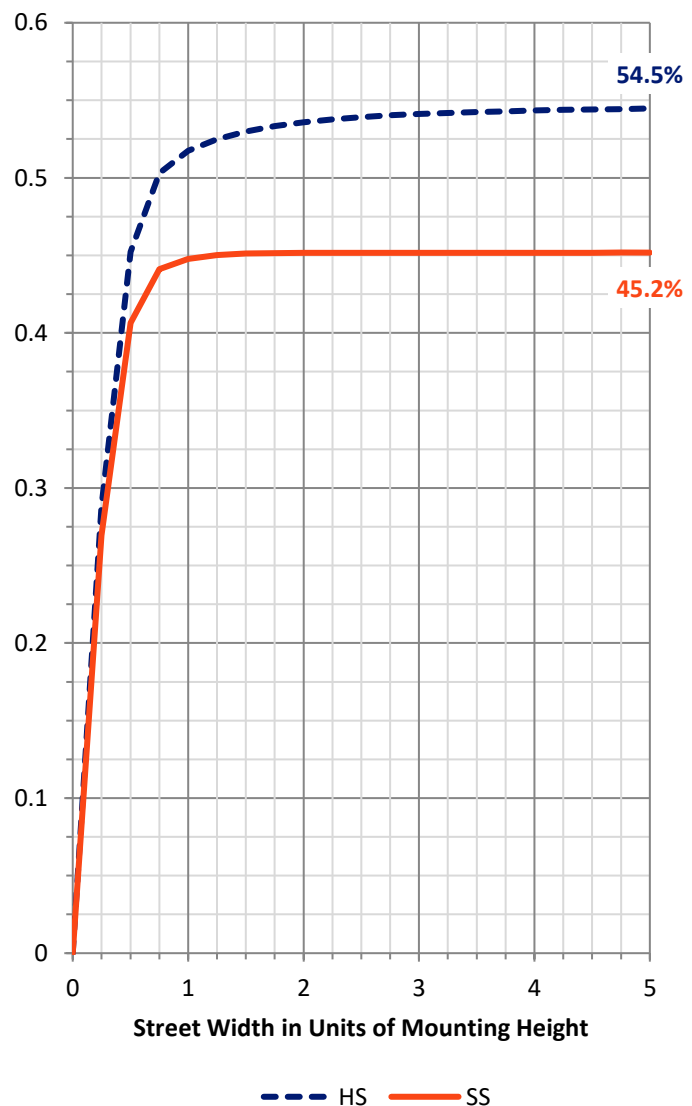
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9025.6	0.0	9025.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7324.1	0.0	7324.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	16349.7	0.0	16349.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2171.9	13.3
10°-20°	5631.7	34.4
20°-30°	5160.2	31.6
30°-40°	2084.7	12.8
40°-50°	611.6	3.7
50°-60°	341.9	2.1
60°-70°	207.7	1.3
70°-80°	105.5	0.6
80°-90°	34.5	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°	16349.7	100.0
0°-180°	16349.7	100.0

Coefficient of Utilization



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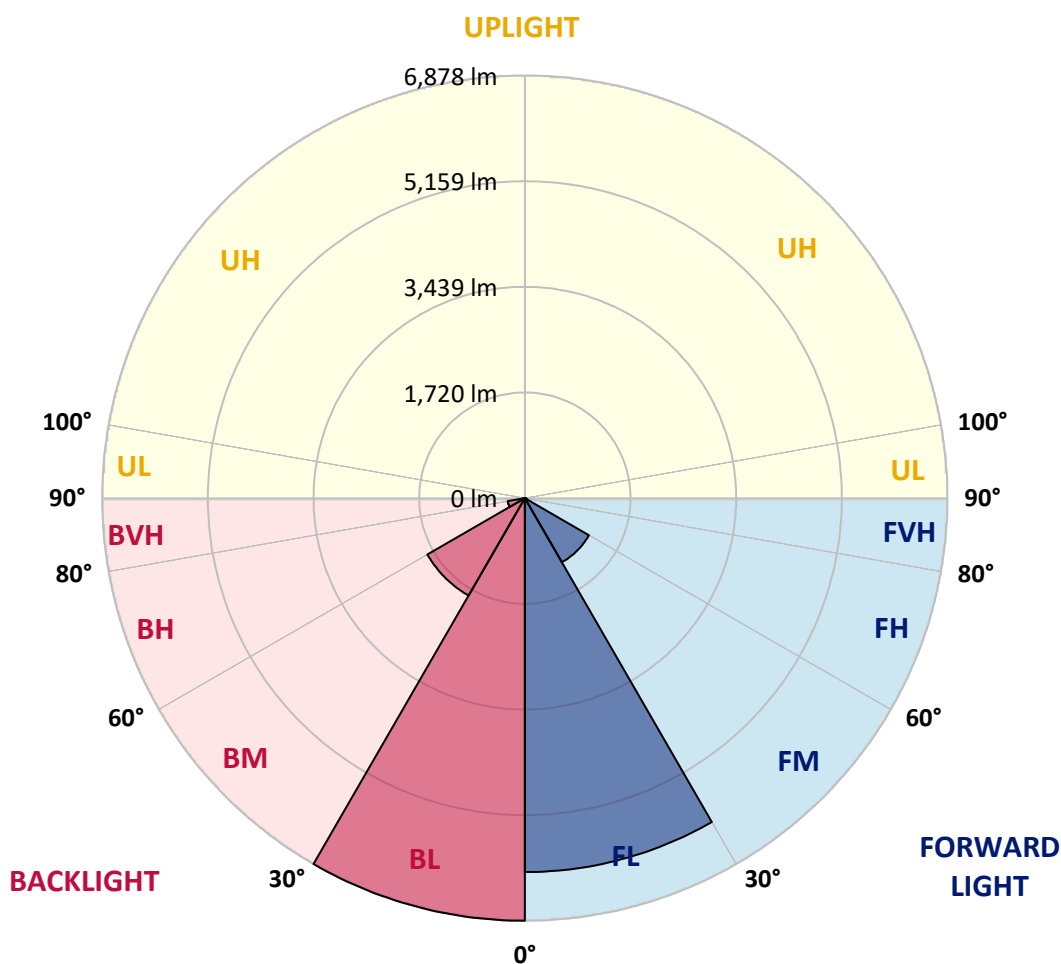
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6085.8	37.2			
FM	(30°-60°)	1206.1	7.4			
FH	(60°-80°)	29.2	0.2			G0/660
FVH	(80°-90°)	3.0	0.0			G0/10
BL	(0°-30°)	6878.0	42.1	B5		
BM	(30°-60°)	1832.1	11.2	B2/2500		
BH	(60°-80°)	284.0	1.7	B1/500		G1/500
BVH	(80°-90°)	31.5	0.2			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°	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4
2.5°	22282.5	22357.9	22207.1	22307.0	22384.3	22569.1	22584.1	22648.2	22670.9	22838.7
5°	21860.2	21918.6	21796.1	21929.9	22039.3	22203.3	22329.6	22506.8	22604.9	22802.8
7.5°	21420.9	21434.1	21409.6	21551.0	21715.0	21941.3	22097.7	22329.6	22390.0	22672.8
10°	20889.3	20793.1	20840.2	21047.6	21292.7	21639.6	21747.1	21979.0	22086.4	22374.9
12.5°	20040.9	20089.9	20031.4	20295.4	20499.0	20893.0	21006.1	21239.9	21445.4	21699.9
15°	18845.6	18817.3	18936.1	19141.6	19362.1	19675.1	19858.0	20112.5	20269.0	20532.9
17.5°	16159.0	16255.2	16745.3	17260.0	17712.5	18078.3	18296.9	18508.1	18621.2	18907.8
20°	13955.1	13834.4	13900.4	14190.7	15478.4	16038.3	16268.4	16319.3	16366.4	16592.6
22.5°	11491.0	11451.4	11672.0	11998.1	12303.5	13595.0	13907.9	13789.2	13887.2	14100.2
25°	8532.9	8732.8	8928.8	9554.8	9950.7	10584.1	11178.0	11230.8	11266.6	11400.5
27.5°	6945.5	6875.7	6872.0	7047.3	7631.7	8159.6	8664.9	8781.8	8761.0	8889.2
30°	5459.9	5437.2	5358.1	5399.5	5341.1	5810.5	6048.1	6528.8	6502.4	6506.2
32.5°	3938.4	3853.6	3821.5	3883.7	3823.4	3780.0	3987.4	4530.4	4521.0	4558.7
35°	2383.0	2371.7	2398.1	2452.8	2332.1	2328.4	2371.7	2882.6	2944.9	3005.2
37.5°	1315.9	1304.6	1325.4	1527.1	1487.5	1451.7	1463.0	1732.6	1911.7	1957.0
40°	867.2	865.4	880.4	916.3	984.1	970.9	976.6	1097.3	1266.9	1306.5
42.5°	580.7	582.6	592.0	633.5	642.9	710.8	699.5	727.7	886.1	920.0
45°	463.8	461.9	467.6	448.7	460.0	529.8	537.3	539.2	674.9	695.7
47.5°	365.8	365.8	371.4	346.9	341.2	384.6	424.2	429.9	539.2	567.5
50°	256.4	256.4	284.7	273.4	286.6	299.8	343.1	348.8	441.2	471.3
52.5°	188.5	192.3	196.1	198.0	241.3	239.4	277.1	303.5	333.7	386.5
55°	143.3	147.1	137.6	147.1	179.1	199.8	207.4	245.1	265.8	324.3
57.5°	94.3	103.7	96.2	113.1	120.7	154.6	165.9	201.7	214.9	265.8
60°	13.2	15.1	24.5	79.2	84.8	101.8	128.2	160.3	173.4	216.8
62.5°	1.9	1.9	5.7	13.2	56.6	67.9	96.2	111.2	128.2	162.1
65°	0.0	0.0	1.9	3.8	11.3	39.6	49.0	60.3	88.6	116.9
67.5°	0.0	0.0	1.9	3.8	5.7	13.2	20.7	39.6	50.9	81.1
70°	0.0	0.0	1.9	3.8	5.7	7.5	11.3	15.1	30.2	47.1
72.5°	0.0	0.0	1.9	3.8	5.7	7.5	9.4	11.3	13.2	30.2
75°	0.0	0.0	1.9	3.8	5.7	9.4	11.3	11.3	11.3	13.2
77.5°	0.0	0.0	1.9	3.8	7.5	11.3	13.2	11.3	9.4	9.4
80°	0.0	0.0	1.9	5.7	9.4	13.2	15.1	11.3	7.5	5.7
82.5°	0.0	0.0	1.9	5.7	9.4	13.2	15.1	13.2	7.5	5.7
85°	0.0	0.0	1.9	5.7	7.5	9.4	15.1	13.2	7.5	3.8
87.5°	0.0	0.0	0.0	1.9	1.9	3.8	7.5	5.7	3.8	1.9
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°
22776.4	0°	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4	22776.4
22834.9	2.5°	23004.6	23089.4	23238.3	23279.8	23408.0	23261.0	23179.9	23187.4	23012.1
22778.3	5°	23004.6	23198.8	23458.9	23583.4	23677.6	23670.1	23649.3	23596.6	23468.4
22665.2	7.5°	22944.2	23261.0	23619.2	23785.1	23898.2	23888.8	23935.9	23851.1	23694.6
22463.5	10°	22750.1	23025.3	23466.5	23602.2	23785.1	23788.9	23730.4	23747.4	23468.4
21726.3	12.5°	22139.2	22354.1	22740.6	22895.2	23117.7	23153.5	23089.4	23064.9	22801.0
20517.8	15°	20957.1	21081.6	21469.9	21624.5	21845.1	21814.9	21879.0	21852.6	21620.8
18885.2	17.5°	19228.3	19267.9	19675.1	19805.2	20012.6	20093.6	19997.5	20120.0	19920.2
16632.2	20°	16749.1	16962.1	17420.3	17620.1	17740.8	17885.9	17759.6	17897.3	17663.5
13898.5	22.5°	14234.1	14360.4	14775.2	15063.6	15288.0	15316.3	15269.1	15365.3	15050.4
11489.1	25°	11487.2	11696.5	12024.5	12401.6	12622.2	12757.9	12635.4	12697.6	12646.7
8910.0	27.5°	9060.8	9247.5	9494.4	9775.3	10107.2	10284.4	10186.3	10291.9	10043.1
6643.8	30°	6649.5	6743.8	7022.8	7320.7	7684.5	7899.5	7908.9	8016.3	7869.3
4654.8	32.5°	4688.8	4771.7	4943.3	5141.2	5488.1	5727.6	5689.9	5705.0	5614.5
3033.5	35°	3048.5	3159.8	3282.3	3376.6	3585.9	3849.8	3829.1	3810.2	3748.0
1994.7	37.5°	2038.0	2081.4	2149.3	2234.1	2369.8	2535.7	2590.4	2522.5	2496.2
1346.1	40°	1378.2	1453.6	1498.8	1562.9	1627.0	1766.5	1804.2	1791.0	1764.7
942.7	42.5°	978.5	1036.9	1093.5	1155.7	1189.6	1276.4	1349.9	1329.1	1317.8
716.4	45°	742.8	795.6	861.6	908.7	942.7	993.6	1063.3	1070.9	1053.9
575.0	47.5°	595.8	642.9	695.7	754.1	793.7	825.8	886.1	908.7	897.4
484.5	50°	505.3	541.1	592.0	650.4	693.8	722.1	774.9	799.4	791.8
405.3	52.5°	429.9	473.2	520.3	569.4	622.2	650.4	699.5	735.3	729.6
335.6	55°	356.3	412.9	461.9	510.9	571.2	599.5	642.9	690.0	680.6
284.7	57.5°	311.1	358.2	409.1	456.2	520.3	558.1	597.6	646.7	644.8
233.8	60°	260.2	307.3	363.9	403.5	471.3	524.1	559.9	610.8	614.6
177.2	62.5°	207.4	265.8	309.2	363.9	426.1	488.3	522.2	573.1	592.0
135.7	65°	154.6	218.7	267.7	322.4	380.8	450.6	480.8	531.7	550.5
98.0	67.5°	115.0	164.0	226.2	273.4	339.4	399.7	435.5	482.6	495.8
58.4	70°	86.7	126.3	188.5	230.0	297.9	346.9	382.7	418.5	435.5
39.6	72.5°	50.9	94.3	148.9	198.0	256.4	297.9	324.3	352.6	363.9
18.9	75°	35.8	71.6	116.9	164.0	207.4	241.3	265.8	290.3	301.6
9.4	77.5°	18.9	52.8	92.4	132.0	162.1	190.4	214.9	233.8	241.3
7.5	80°	11.3	37.7	75.4	103.7	124.4	148.9	173.4	186.6	184.8
5.7	82.5°	7.5	30.2	54.7	75.4	90.5	109.3	126.3	135.7	135.7
3.8	85°	5.7	20.7	37.7	58.4	60.3	75.4	79.2	88.6	90.5
3.8	87.5°	3.8	13.2	20.7	33.9	32.1	39.6	41.5	47.1	50.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
22776.4
22870.7
23509.8
23730.4
23387.3
22740.6
21694.3
19871.2
17644.6
15007.1
12614.6
10107.2
7895.7
5665.4
3693.3
2490.5
1768.4
1308.4
1052.0
891.8
789.9
725.8
680.6
642.9
614.6
590.1
548.6
495.8
431.7
360.1
297.9
239.4
182.9
133.9
88.6
49.0
0.0

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