

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: P636450

Luminaire Tested: **IFLD-S-SA2D-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636450
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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: 8282.6 lumens
Efficiency: N/A
Efficacy: 66.8 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): 123.9
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



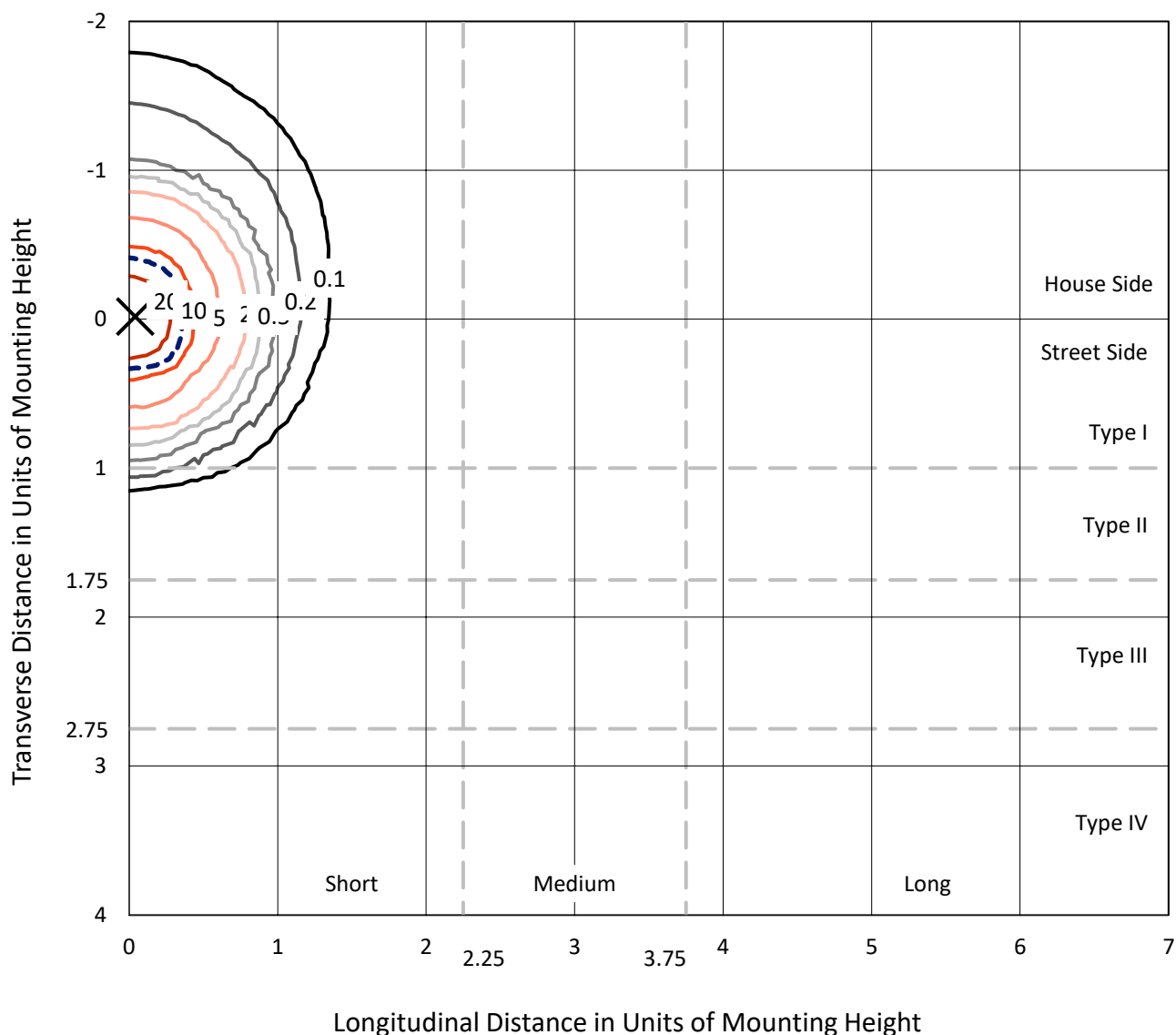
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

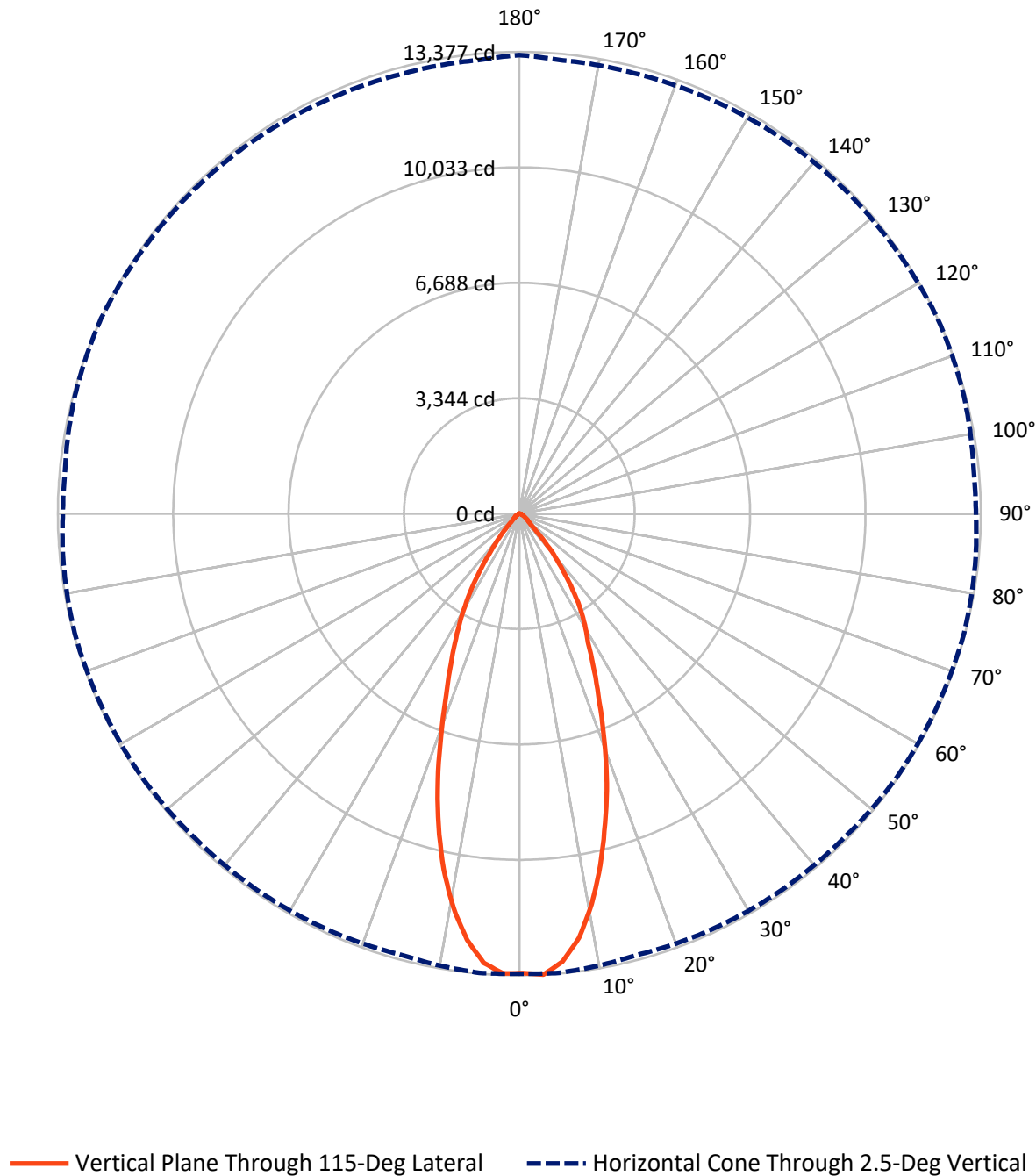


Based on 20 foot mounting height. Maximum calculated value = 33.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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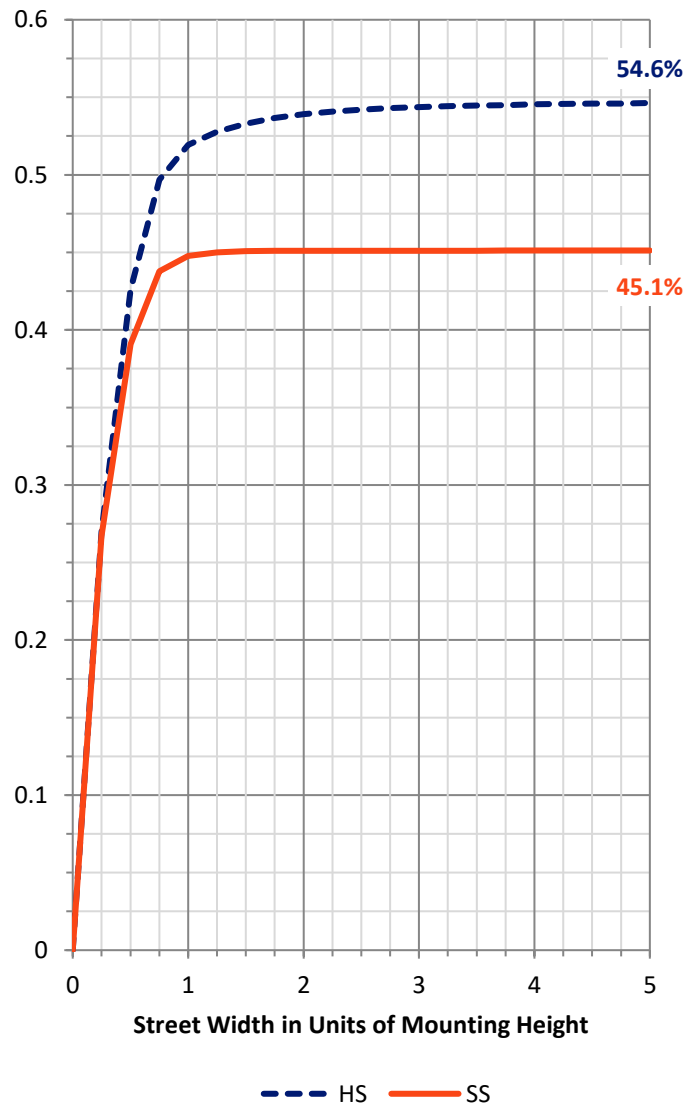
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4571.0	0.0	4571.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	3711.6	0.0	3711.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	8282.6	0.0	8282.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1194.2	14.4
10°-20°	2523.9	30.5
20°-30°	2278.0	27.5
30°-40°	1507.5	18.2
40°-50°	451.6	5.5
50°-60°	181.1	2.2
60°-70°	93.8	1.1
70°-80°	40.7	0.5
80°-90°	11.9	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°	8282.6	100.0
0°-180°	8282.6	100.0

Coefficient of Utilization



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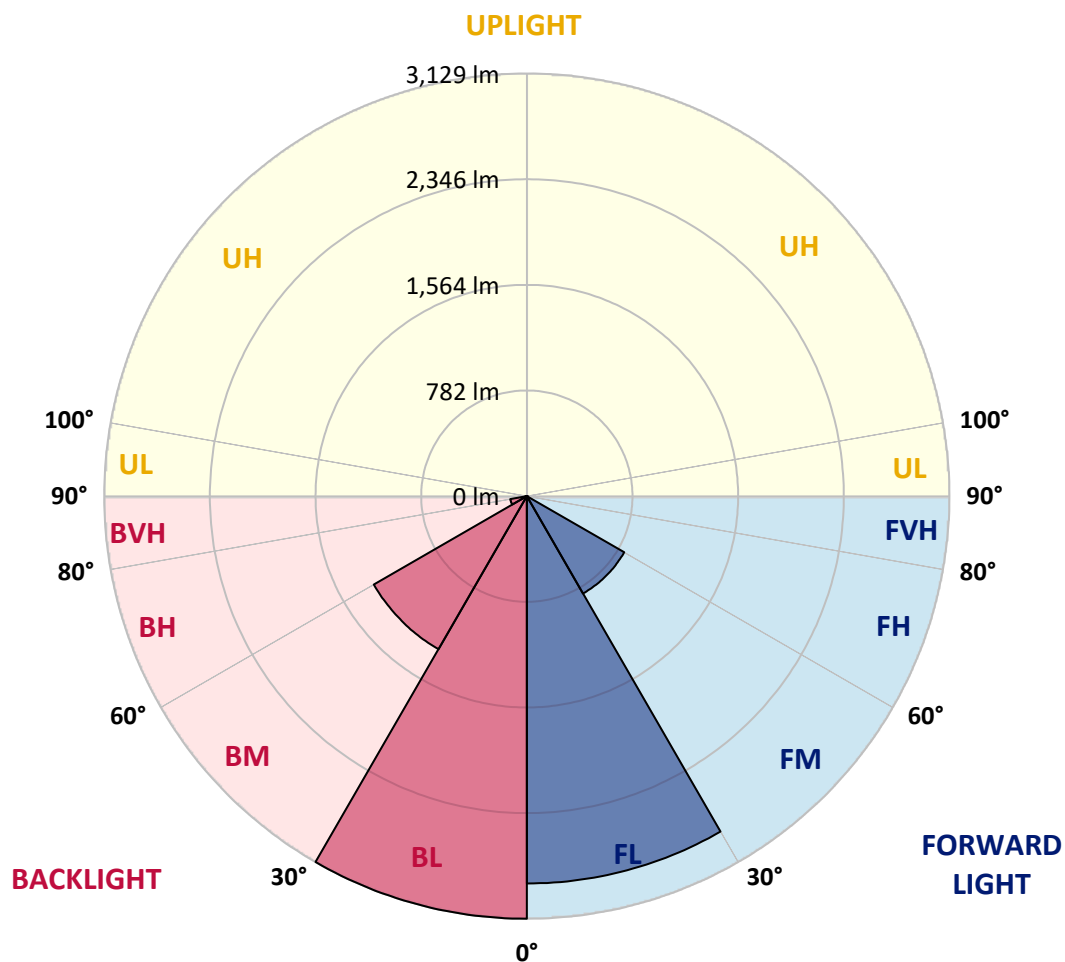
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2867.5	34.6			
FM	(30°-60°)	832.1	10.0			
FH	(60°-80°)	10.3	0.1			G0/660
FVH	(80°-90°)	1.7	0.0			G0/10
BL	(0°-30°)	3128.5	37.8	B4/5000		
BM	(30°-60°)	1308.1	15.8	B2/2500		
BH	(60°-80°)	124.2	1.5	B1/500		G1/500
BVH	(80°-90°)	10.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2
2.5°	13331.1	13354.8	13236.3	13276.9	13293.8	13298.9	13341.3	13334.5	13346.4	13283.7
5°	13154.9	13109.2	13021.1	13022.8	13017.7	12970.3	13066.9	13060.1	13039.8	12965.2
7.5°	12555.3	12621.4	12455.4	12452.0	12448.6	12391.0	12518.0	12440.1	12457.1	12350.3
10°	11677.9	11686.3	11539.0	11525.4	11537.3	11462.7	11610.1	11579.6	11611.8	11500.0
12.5°	10602.2	10649.6	10487.0	10463.3	10510.7	10405.7	10524.3	10539.5	10492.1	10476.9
15°	8315.4	8440.8	8749.1	9220.0	9341.9	9253.9	9348.7	9347.0	9367.4	9252.2
17.5°	6335.2	6347.1	6274.3	6499.6	7803.9	8227.3	8247.7	8086.8	7964.8	7922.4
20°	5530.6	5571.3	5505.2	5523.9	5732.2	6973.8	7021.3	6779.0	6570.7	6553.8
22.5°	4890.3	4915.7	4868.3	4883.6	4893.7	5039.4	5864.3	5650.9	5551.0	5474.7
25°	4348.3	4348.3	4322.9	4328.0	4317.8	4102.7	4526.1	4770.1	4712.5	4685.4
27.5°	3853.7	3860.4	3828.2	3846.9	3723.2	3376.0	3325.2	4045.1	3984.1	3935.0
30°	3384.4	3406.5	3376.0	3386.1	3116.8	2832.2	2686.5	3374.3	3450.5	3437.0
32.5°	2547.6	2647.6	2893.2	2903.4	2537.5	2319.0	2254.6	2708.6	2998.2	2972.8
35°	1578.7	1573.6	1583.8	2071.7	1946.3	1797.2	1821.0	2046.2	2373.2	2361.3
37.5°	1204.4	1202.7	1221.3	1172.2	1275.5	1363.6	1382.2	1382.2	1732.9	1734.6
40°	913.0	906.2	904.6	826.6	692.8	1023.1	992.6	967.2	1204.4	1229.8
42.5°	582.7	603.0	587.8	503.1	452.3	559.0	623.4	603.0	743.6	762.3
45°	325.2	325.2	311.7	264.3	262.6	282.9	355.7	332.0	381.1	406.5
47.5°	157.5	154.1	169.4	208.4	216.8	210.0	254.1	264.3	288.0	311.7
50°	127.0	127.0	120.3	108.4	179.6	172.8	188.0	201.6	215.1	235.5
52.5°	106.7	106.7	98.2	91.5	103.3	132.1	133.8	159.2	157.5	186.3
55°	54.2	55.9	79.6	79.6	69.5	108.4	110.1	128.7	132.1	155.8
57.5°	5.1	6.8	10.2	49.1	54.2	59.3	83.0	94.9	110.1	120.3
60°	1.7	1.7	3.4	6.8	32.2	40.7	52.5	62.7	76.2	99.9
62.5°	0.0	0.0	1.7	3.4	6.8	25.4	28.8	32.2	45.7	62.7
65°	0.0	0.0	1.7	1.7	3.4	8.5	11.9	20.3	28.8	39.0
67.5°	0.0	0.0	1.7	1.7	3.4	5.1	6.8	10.2	13.6	25.4
70°	0.0	0.0	1.7	1.7	3.4	5.1	5.1	6.8	8.5	11.9
72.5°	0.0	0.0	1.7	1.7	3.4	6.8	5.1	5.1	6.8	8.5
75°	0.0	0.0	1.7	1.7	3.4	5.1	5.1	5.1	5.1	5.1
77.5°	0.0	0.0	1.7	1.7	3.4	5.1	5.1	5.1	3.4	3.4
80°	0.0	0.0	1.7	1.7	3.4	5.1	6.8	6.8	3.4	3.4
82.5°	0.0	0.0	1.7	3.4	3.4	8.5	10.2	8.5	3.4	1.7
85°	0.0	0.0	1.7	1.7	5.1	8.5	8.5	5.1	3.4	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	5.1	5.1	1.7	1.7
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°
13314.2	0°	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2	13314.2
13232.9	2.5°	13226.1	13329.4	13376.8	13327.7	13304.0	13270.1	13221.0	13187.1	13193.9
12924.6	5°	12895.8	13004.2	13041.5	12999.1	12963.5	12944.9	12936.4	12953.4	12997.4
12304.6	7.5°	12301.2	12370.7	12411.3	12391.0	12341.9	12397.8	12413.0	12402.8	12467.2
11466.1	10°	11469.5	11545.7	11508.5	11516.9	11459.3	11488.1	11479.7	11516.9	11581.3
10465.0	12.5°	10397.3	10470.1	10441.3	10436.2	10375.2	10429.4	10395.6	10436.2	10520.9
9204.7	15°	9270.8	9316.5	9297.9	9269.1	9214.9	9233.5	9338.6	9331.8	9369.0
7897.0	17.5°	7863.2	8083.4	8203.6	8229.0	8185.0	8222.3	8296.8	8278.2	8362.9
6518.2	20°	6506.3	6728.2	7024.7	7265.2	7270.3	7275.4	7322.8	7334.7	7407.5
5476.4	22.5°	5452.7	5610.2	5928.7	6247.2	6467.4	6513.1	6508.0	6525.0	6545.3
4648.1	25°	4636.2	4751.4	5042.8	5263.0	5649.2	5777.9	5815.2	5777.9	5789.8
3918.0	27.5°	3962.1	4138.2	4234.8	4470.2	4848.0	5146.1	5134.3	5112.2	5115.6
3409.9	30°	3408.2	3597.9	3740.2	3811.3	4095.9	4526.1	4570.2	4507.5	4509.2
2961.0	32.5°	2942.3	3001.6	3211.7	3269.3	3452.2	3843.5	3994.3	3946.8	3938.4
2368.1	35°	2437.5	2469.7	2566.3	2679.8	2788.2	3084.6	3333.6	3289.6	3311.6
1741.3	37.5°	1734.6	1866.7	1959.9	2053.0	2130.9	2317.3	2617.1	2576.4	2598.5
1233.2	40°	1223.0	1282.3	1443.2	1483.9	1599.1	1685.4	1939.5	1926.0	1953.1
765.6	42.5°	752.1	794.4	875.8	914.7	992.6	1041.8	1190.8	1207.8	1243.3
423.5	45°	426.9	445.5	501.4	543.7	601.3	621.7	674.2	697.9	718.2
328.6	47.5°	325.2	345.6	382.8	420.1	467.5	484.5	521.7	557.3	575.9
254.1	50°	265.9	284.6	323.5	354.0	401.5	416.7	447.2	486.2	509.9
193.1	52.5°	201.6	228.7	276.1	308.3	357.4	376.0	404.8	443.8	465.8
159.2	55°	166.0	186.3	228.7	272.7	318.5	343.9	362.5	409.9	433.6
130.4	57.5°	142.3	157.5	184.6	237.1	276.1	313.4	328.6	372.7	396.4
103.3	60°	108.4	132.1	155.8	196.5	240.5	279.5	296.4	335.4	354.0
74.5	62.5°	89.8	105.0	135.5	157.5	206.7	247.3	264.3	299.8	313.4
49.1	65°	62.7	84.7	113.5	127.0	172.8	211.7	235.5	262.6	276.1
28.8	67.5°	37.3	62.7	89.8	108.4	140.6	179.6	205.0	230.4	242.2
16.9	70°	23.7	49.1	71.1	91.5	110.1	147.4	177.9	199.9	194.8
10.2	72.5°	13.6	30.5	52.5	74.5	91.5	123.7	152.5	169.4	120.3
6.8	75°	8.5	22.0	44.0	61.0	74.5	98.2	125.3	128.7	74.5
3.4	77.5°	6.8	16.9	33.9	49.1	50.8	72.8	88.1	99.9	55.9
3.4	80°	3.4	13.6	28.8	40.7	32.2	50.8	67.8	77.9	44.0
1.7	82.5°	3.4	8.5	22.0	28.8	23.7	39.0	49.1	55.9	37.3
1.7	85°	1.7	6.8	11.9	16.9	16.9	25.4	22.0	27.1	23.7
1.7	87.5°	1.7	3.4	6.8	8.5	6.8	10.2	11.9	11.9	10.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
13314.2
13285.4
13088.9
12531.6
11606.7
10536.2
9377.5
8349.3
7392.2
6508.0
5771.2
5120.7
4510.9
3958.7
3331.9
2617.1
1963.2
1284.0
716.5
584.4
520.0
481.1
440.4
406.5
357.4
315.1
276.1
240.5
179.6
106.7
69.5
55.9
45.7
40.7
23.7
8.5
0.0

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