

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: P636511

Luminaire Tested: **IFLD-S-SA3B-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636511
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10174.5 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - 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



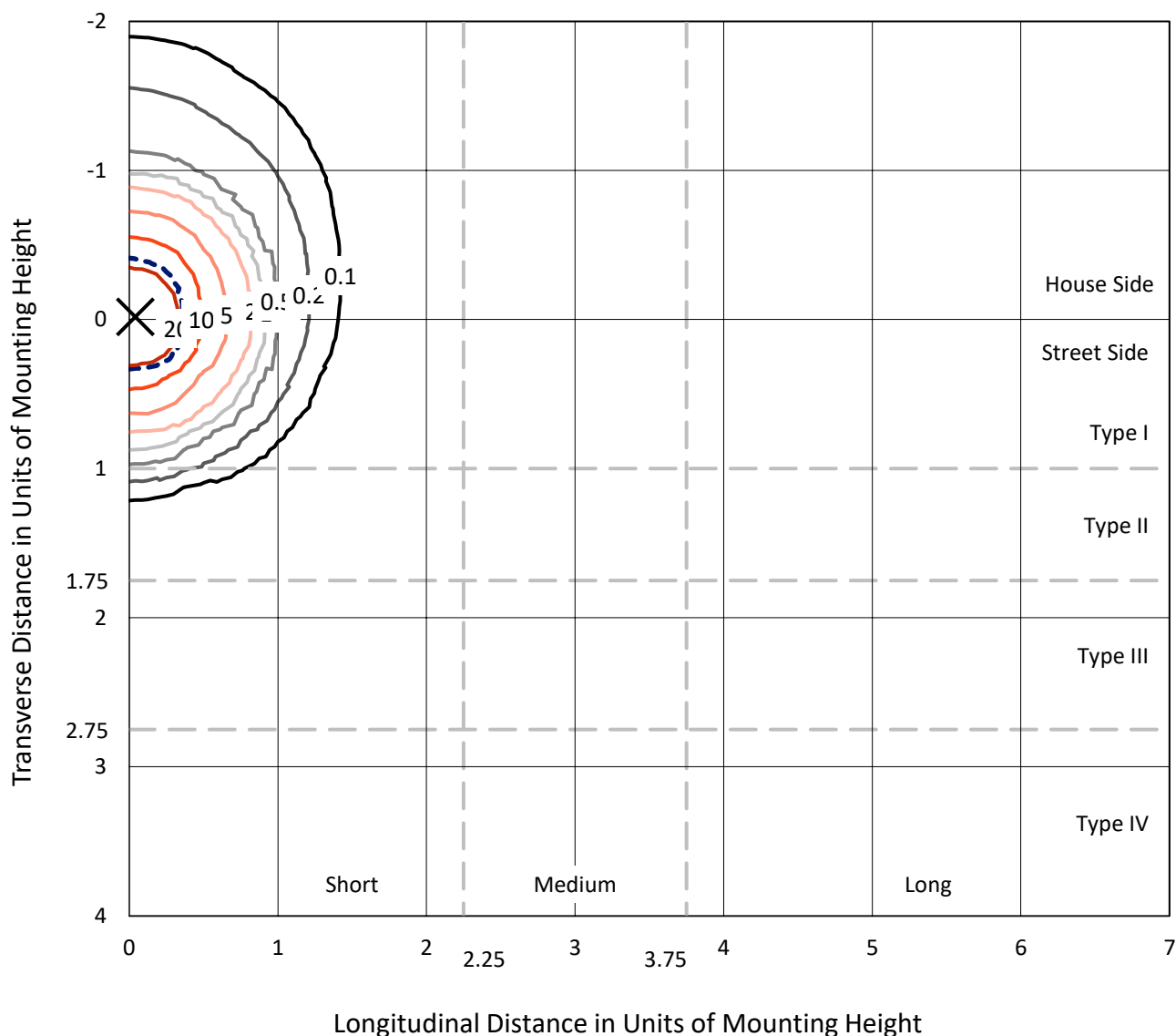
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

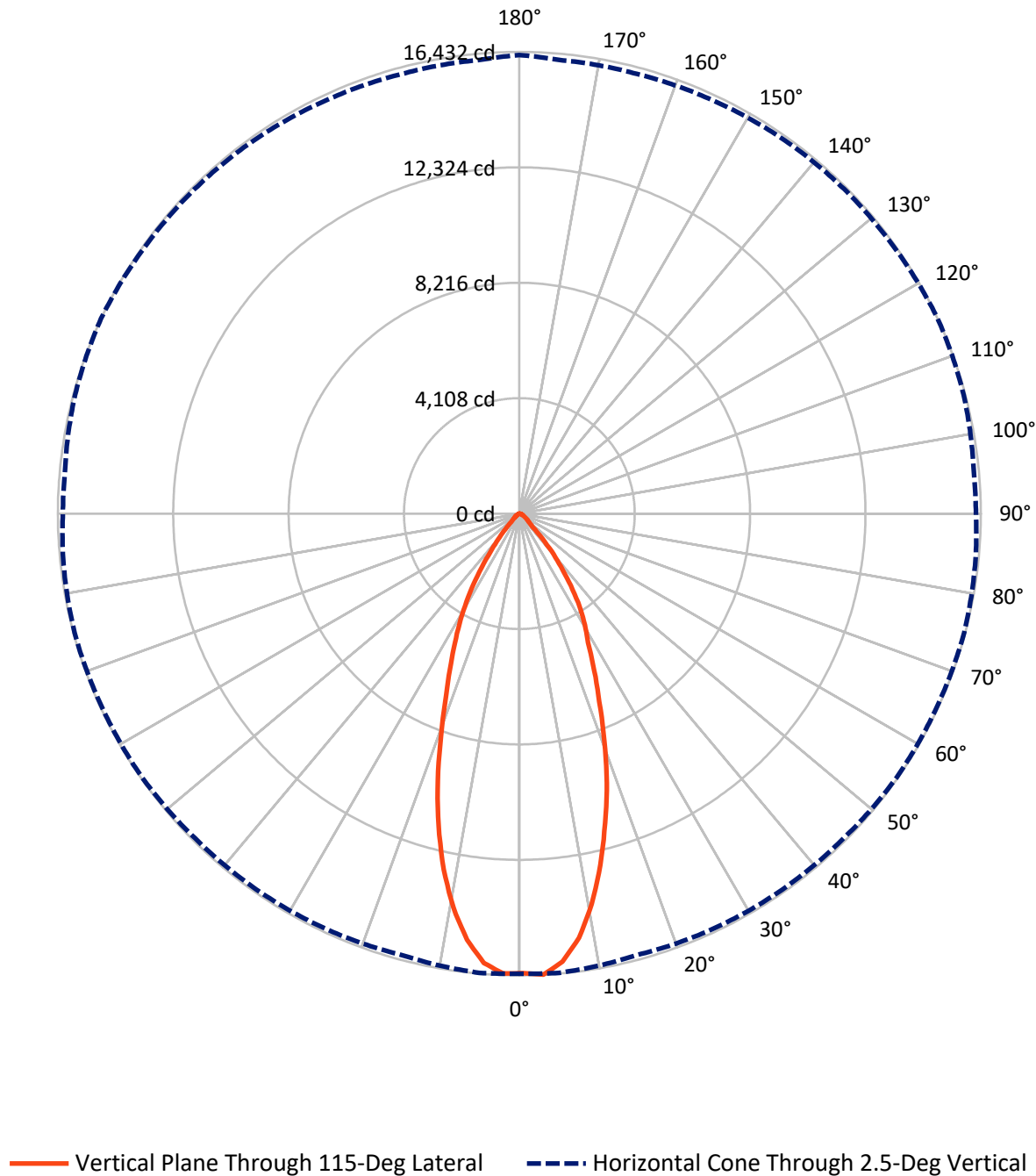


Based on 20 foot mounting height. Maximum calculated value = 40.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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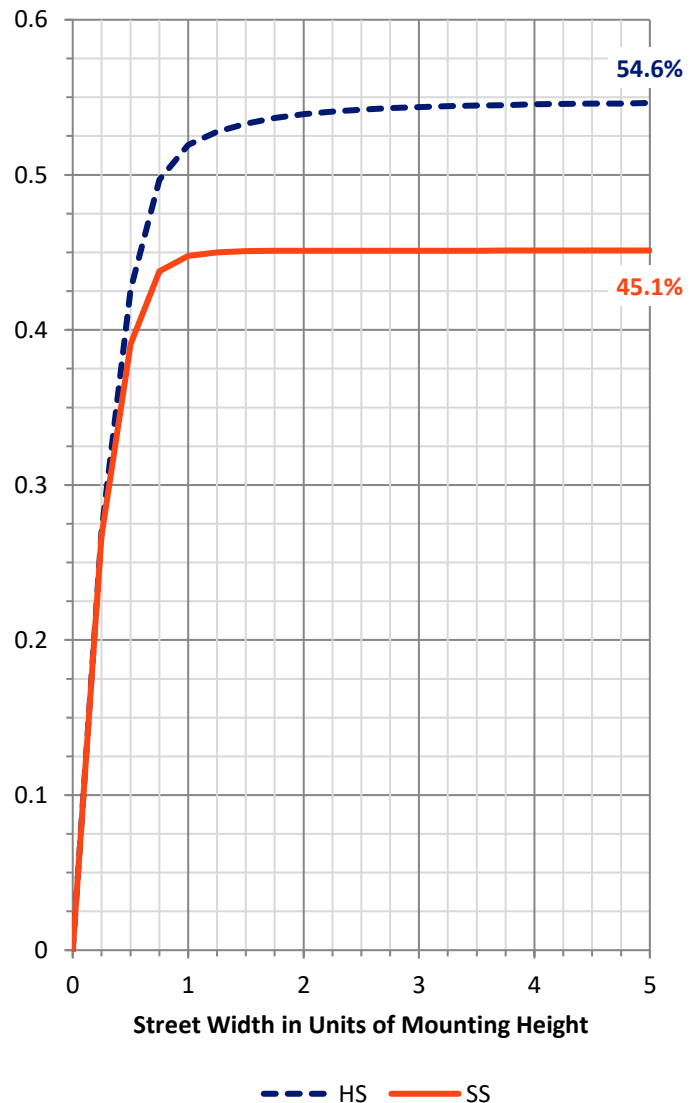
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5615.1	0.0	5615.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	4559.4	0.0	4559.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	10174.5	0.0	10174.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1467.0	14.4
10°-20°	3100.4	30.5
20°-30°	2798.3	27.5
30°-40°	1851.8	18.2
40°-50°	554.7	5.5
50°-60°	222.5	2.2
60°-70°	115.2	1.1
70°-80°	50.0	0.5
80°-90°	14.6	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°	10174.5	100.0
0°-180°	10174.5	100.0

Coefficient of Utilization



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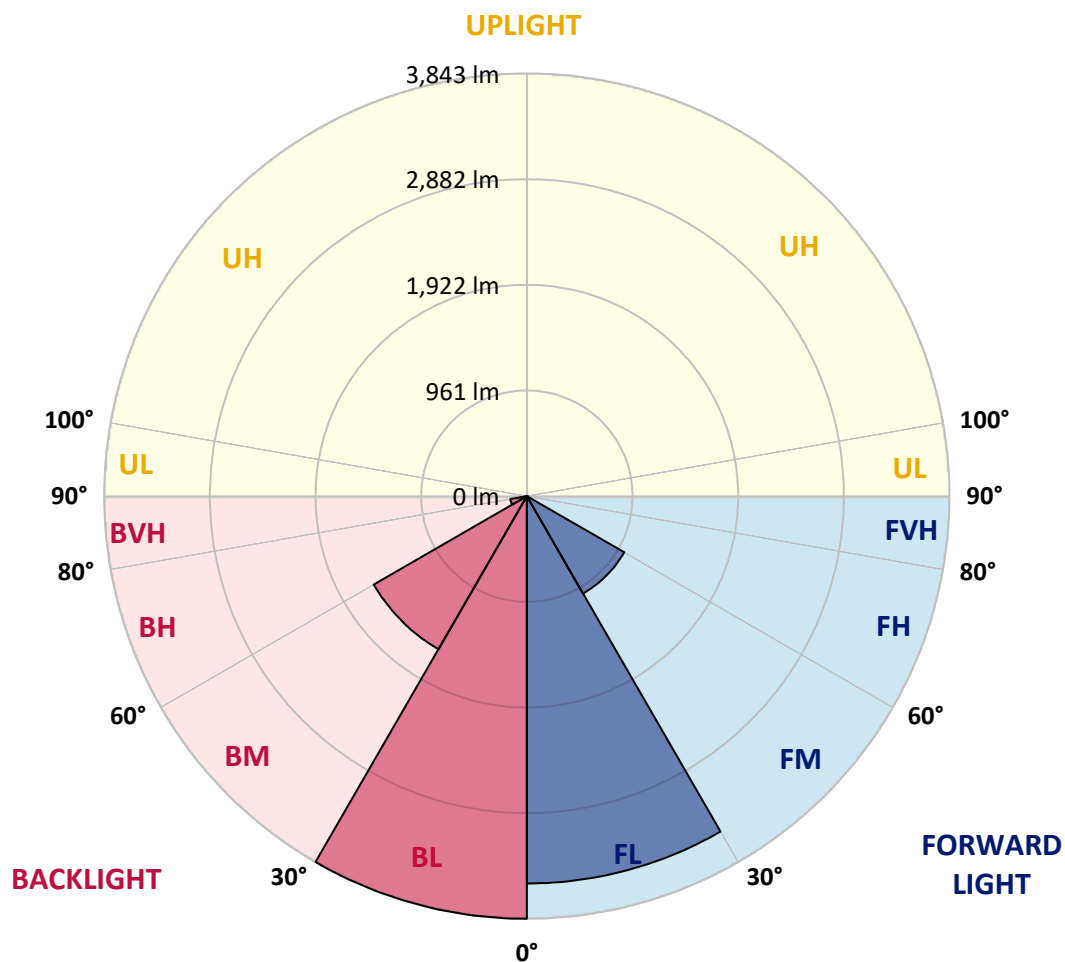
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3522.5	34.6			
FM	(30°-60°)	1022.1	10.0			
FH	(60°-80°)	12.7	0.1			G0/660
FVH	(80°-90°)	2.1	0.0			G0/10
BL	(0°-30°)	3843.2	37.8	B4/5000		
BM	(30°-60°)	1606.9	15.8	B2/2500		
BH	(60°-80°)	152.6	1.5	B1/500		G1/500
BVH	(80°-90°)	12.5	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°	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5
2.5°	16376.3	16405.4	16259.7	16309.7	16330.5	16336.7	16388.8	16380.4	16395.0	16318.0
5°	16159.9	16103.7	15995.5	15997.6	15991.3	15933.0	16051.7	16043.3	16018.4	15926.8
7.5°	15423.2	15504.4	15300.5	15296.3	15292.1	15221.4	15377.5	15281.7	15302.5	15171.5
10°	14345.4	14355.8	14174.7	14158.1	14172.6	14081.1	14262.1	14224.7	14264.2	14126.9
12.5°	13024.0	13082.3	12882.5	12853.4	12911.7	12782.6	12928.3	12947.0	12888.8	12870.0
15°	10214.9	10368.9	10747.6	11326.1	11475.9	11367.7	11484.2	11482.1	11507.1	11365.6
17.5°	7782.4	7796.9	7707.5	7984.2	9586.5	10106.7	10131.6	9934.0	9784.1	9732.1
20°	6794.0	6843.9	6762.8	6785.6	7041.6	8566.8	8625.1	8327.5	8071.6	8050.8
22.5°	6007.4	6038.6	5980.4	5999.1	6011.6	6190.5	7203.9	6941.7	6818.9	6725.3
25°	5341.5	5341.5	5310.3	5316.6	5304.1	5039.8	5560.0	5859.7	5788.9	5755.6
27.5°	4733.9	4742.3	4702.7	4725.6	4573.7	4147.1	4084.7	4969.1	4894.2	4833.8
30°	4157.5	4184.6	4147.1	4159.6	3828.8	3479.2	3300.2	4145.0	4238.7	4222.0
32.5°	3129.6	3252.4	3554.1	3566.6	3117.1	2848.7	2769.6	3327.3	3683.1	3651.9
35°	1939.3	1933.1	1945.6	2544.9	2390.9	2207.8	2236.9	2513.7	2915.3	2900.7
37.5°	1479.5	1477.4	1500.3	1439.9	1566.9	1675.1	1698.0	1698.0	2128.7	2130.8
40°	1121.6	1113.3	1111.2	1015.5	851.1	1256.8	1219.4	1188.2	1479.5	1510.7
42.5°	715.8	740.8	722.1	618.0	555.6	686.7	765.8	740.8	913.5	936.4
45°	399.5	399.5	382.9	324.6	322.5	347.5	437.0	407.8	468.2	499.4
47.5°	193.5	189.4	208.1	255.9	266.3	258.0	312.1	324.6	353.7	382.9
50°	156.1	156.1	147.7	133.2	220.6	212.2	231.0	247.6	264.3	289.2
52.5°	131.1	131.1	120.7	112.4	126.9	162.3	164.4	195.6	193.5	228.9
55°	66.6	68.7	97.8	97.8	85.3	133.2	135.3	158.1	162.3	191.4
57.5°	6.2	8.3	12.5	60.3	66.6	72.8	102.0	116.5	135.3	147.7
60°	2.1	2.1	4.2	8.3	39.5	49.9	64.5	77.0	93.6	122.8
62.5°	0.0	0.0	2.1	4.2	8.3	31.2	35.4	39.5	56.2	77.0
65°	0.0	0.0	2.1	2.1	4.2	10.4	14.6	25.0	35.4	47.9
67.5°	0.0	0.0	2.1	2.1	4.2	6.2	8.3	12.5	16.6	31.2
70°	0.0	0.0	2.1	2.1	4.2	6.2	6.2	8.3	10.4	14.6
72.5°	0.0	0.0	2.1	2.1	4.2	8.3	6.2	6.2	8.3	10.4
75°	0.0	0.0	2.1	2.1	4.2	6.2	6.2	6.2	6.2	6.2
77.5°	0.0	0.0	2.1	2.1	4.2	6.2	6.2	6.2	4.2	4.2
80°	0.0	0.0	2.1	2.1	4.2	6.2	8.3	8.3	4.2	4.2
82.5°	0.0	0.0	2.1	4.2	4.2	10.4	12.5	10.4	4.2	2.1
85°	0.0	0.0	2.1	2.1	6.2	10.4	10.4	6.2	4.2	2.1
87.5°	0.0	0.0	0.0	2.1	2.1	4.2	6.2	6.2	2.1	2.1
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°
16355.5	0°	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5	16355.5
16255.6	2.5°	16247.3	16374.2	16432.4	16372.1	16343.0	16301.4	16241.0	16199.4	16207.7
15876.9	5°	15841.5	15974.7	16020.4	15968.4	15924.7	15901.8	15891.4	15912.2	15966.3
15115.3	7.5°	15111.1	15196.4	15246.4	15221.4	15161.1	15229.7	15248.4	15236.0	15315.0
14085.3	10°	14089.4	14183.1	14137.3	14147.7	14076.9	14112.3	14101.9	14147.7	14226.8
12855.5	12.5°	12772.2	12861.7	12826.3	12820.1	12745.2	12811.8	12770.2	12820.1	12924.1
11307.3	15°	11388.5	11444.7	11421.8	11386.4	11319.8	11342.7	11471.7	11463.4	11509.2
9700.9	17.5°	9659.3	9929.8	10077.5	10108.8	10054.7	10100.4	10192.0	10169.1	10273.1
8007.1	20°	7992.5	8265.1	8629.3	8924.8	8931.0	8937.2	8995.5	9010.1	9099.5
6727.4	22.5°	6698.2	6891.8	7283.0	7674.2	7944.7	8000.9	7994.6	8015.4	8040.4
5709.8	25°	5695.3	5836.8	6194.7	6465.2	6939.6	7097.8	7143.5	7097.8	7112.3
4813.0	27.5°	4867.1	5083.5	5202.1	5491.4	5955.4	6321.6	6307.0	6280.0	6284.2
4188.7	30°	4186.7	4419.7	4594.5	4681.9	5031.5	5560.0	5614.1	5537.1	5539.2
3637.3	32.5°	3614.4	3687.3	3945.3	4016.0	4240.8	4721.4	4906.6	4848.4	4838.0
2909.0	35°	2994.3	3033.9	3152.5	3291.9	3425.1	3789.2	4095.1	4041.0	4068.1
2139.1	37.5°	2130.8	2293.1	2407.5	2522.0	2617.7	2846.6	3214.9	3165.0	3192.0
1514.9	40°	1502.4	1575.2	1772.9	1822.8	1964.3	2070.4	2382.6	2365.9	2399.2
940.5	42.5°	923.9	975.9	1075.8	1123.7	1219.4	1279.7	1462.8	1483.6	1527.3
520.2	45°	524.4	547.3	615.9	668.0	738.7	763.7	828.2	857.3	882.3
403.7	47.5°	399.5	424.5	470.3	516.1	574.3	595.1	640.9	684.6	707.5
312.1	50°	326.7	349.6	397.4	434.9	493.2	511.9	549.3	597.2	626.3
237.2	52.5°	247.6	280.9	339.2	378.7	439.1	461.9	497.3	545.2	572.2
195.6	55°	203.9	228.9	280.9	335.0	391.2	422.4	445.3	503.6	532.7
160.2	57.5°	174.8	193.5	226.8	291.3	339.2	385.0	403.7	457.8	486.9
126.9	60°	133.2	162.3	191.4	241.4	295.5	343.3	364.1	412.0	434.9
91.6	62.5°	110.3	129.0	166.5	193.5	253.9	303.8	324.6	368.3	385.0
60.3	65°	77.0	104.0	139.4	156.1	212.2	260.1	289.2	322.5	339.2
35.4	67.5°	45.8	77.0	110.3	133.2	172.7	220.6	251.8	283.0	297.6
20.8	70°	29.1	60.3	87.4	112.4	135.3	181.0	218.5	245.5	239.3
12.5	72.5°	16.6	37.5	64.5	91.6	112.4	151.9	187.3	208.1	147.7
8.3	75°	10.4	27.1	54.1	74.9	91.6	120.7	154.0	158.1	91.6
4.2	77.5°	8.3	20.8	41.6	60.3	62.4	89.5	108.2	122.8	68.7
4.2	80°	4.2	16.6	35.4	49.9	39.5	62.4	83.2	95.7	54.1
2.1	82.5°	4.2	10.4	27.1	35.4	29.1	47.9	60.3	68.7	45.8
2.1	85°	2.1	8.3	14.6	20.8	20.8	31.2	27.1	33.3	29.1
2.1	87.5°	2.1	4.2	8.3	10.4	8.3	12.5	14.6	14.6	12.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
16355.5
16320.1
16078.7
15394.1
14258.0
12942.9
11519.6
10256.5
9080.8
7994.6
7089.4
6290.4
5541.3
4862.9
4093.0
3214.9
2411.7
1577.3
880.2
717.9
638.8
591.0
541.0
499.4
439.1
387.0
339.2
295.5
220.6
131.1
85.3
68.7
56.2
49.9
29.1
10.4
0.0

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