

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: P637763

Luminaire Tested: **IFLD-S-SA6B-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637763
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24914.6 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 244.9
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



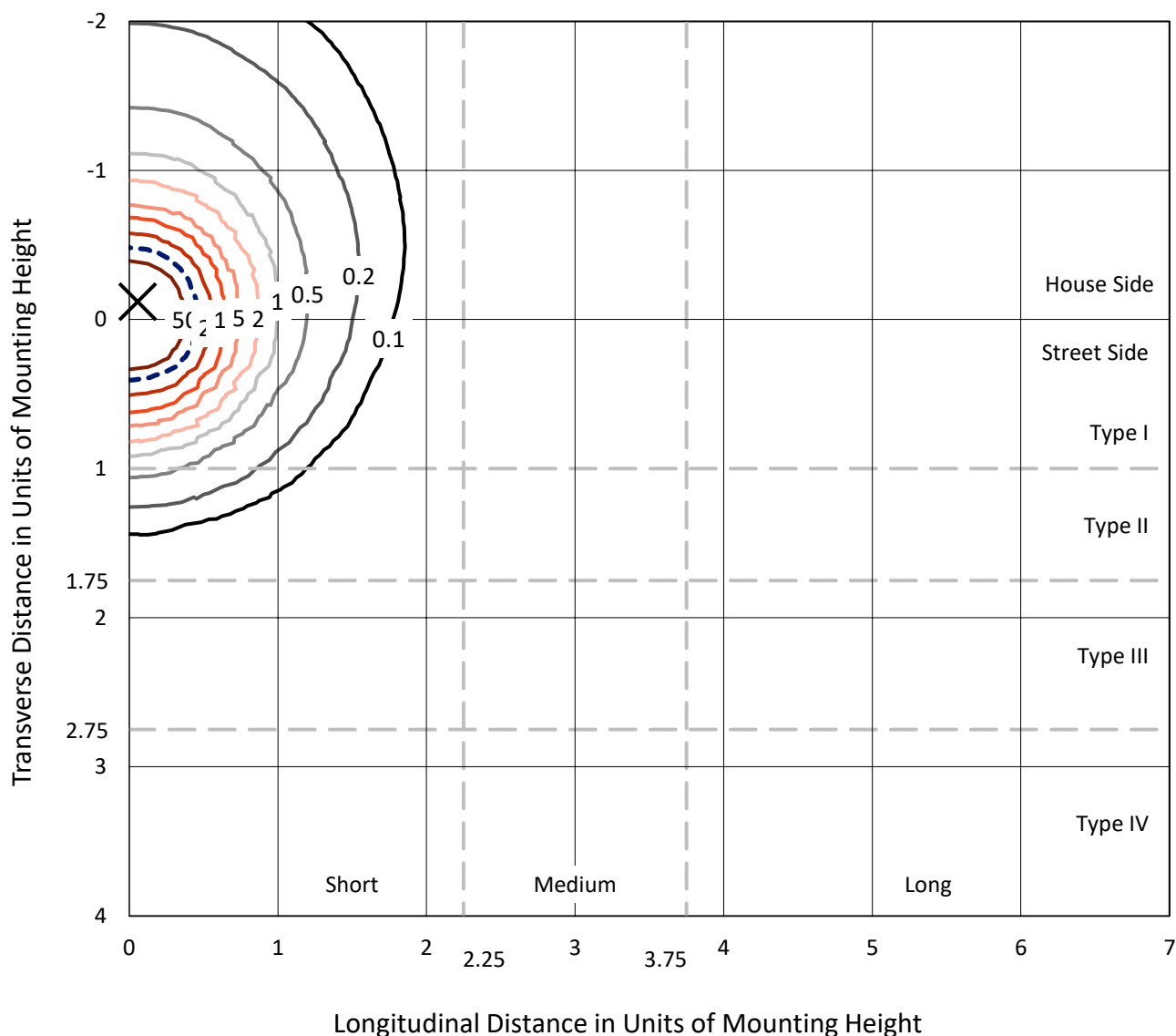
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

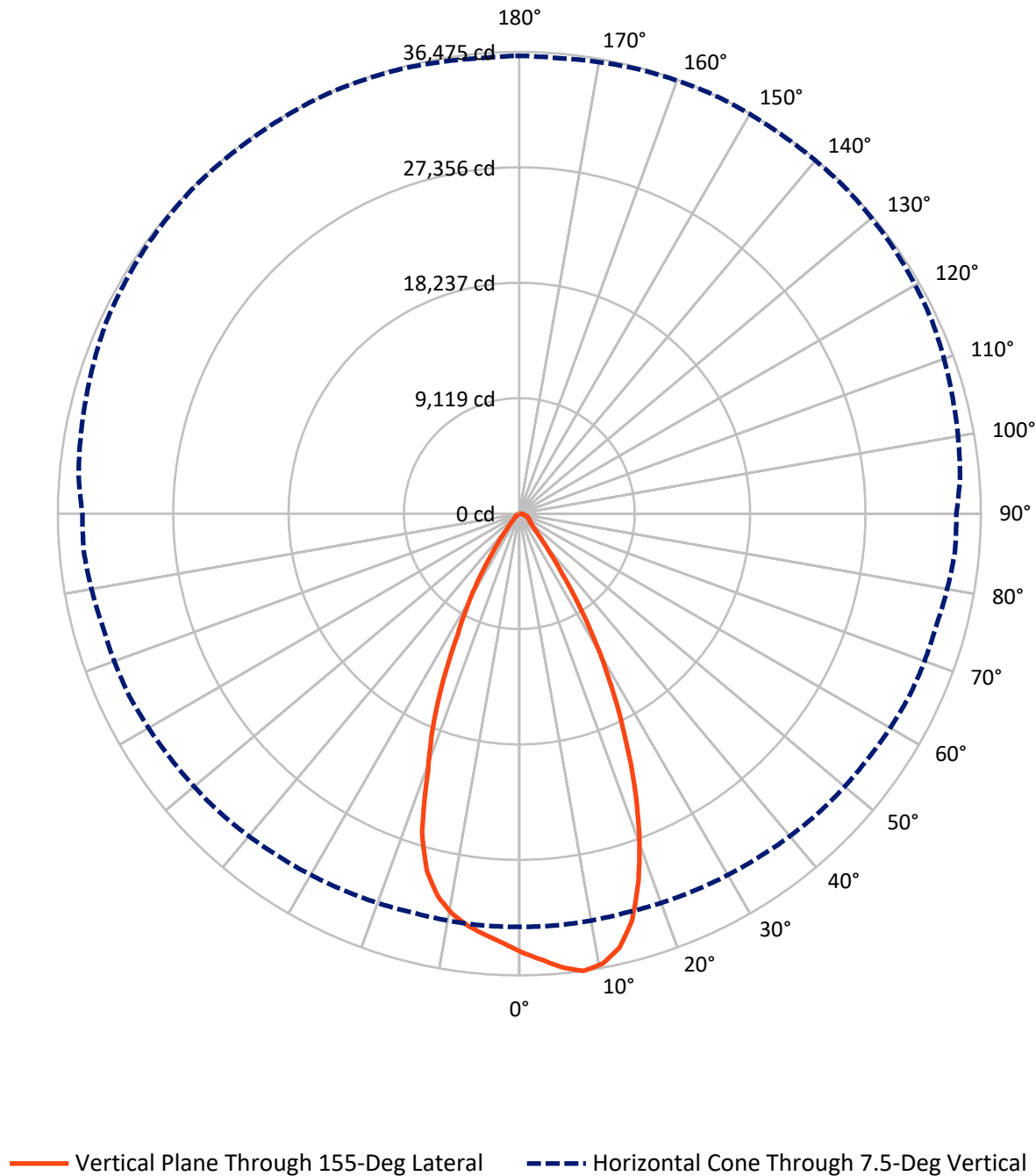


Based on 20 foot mounting height. Maximum calculated value = 88.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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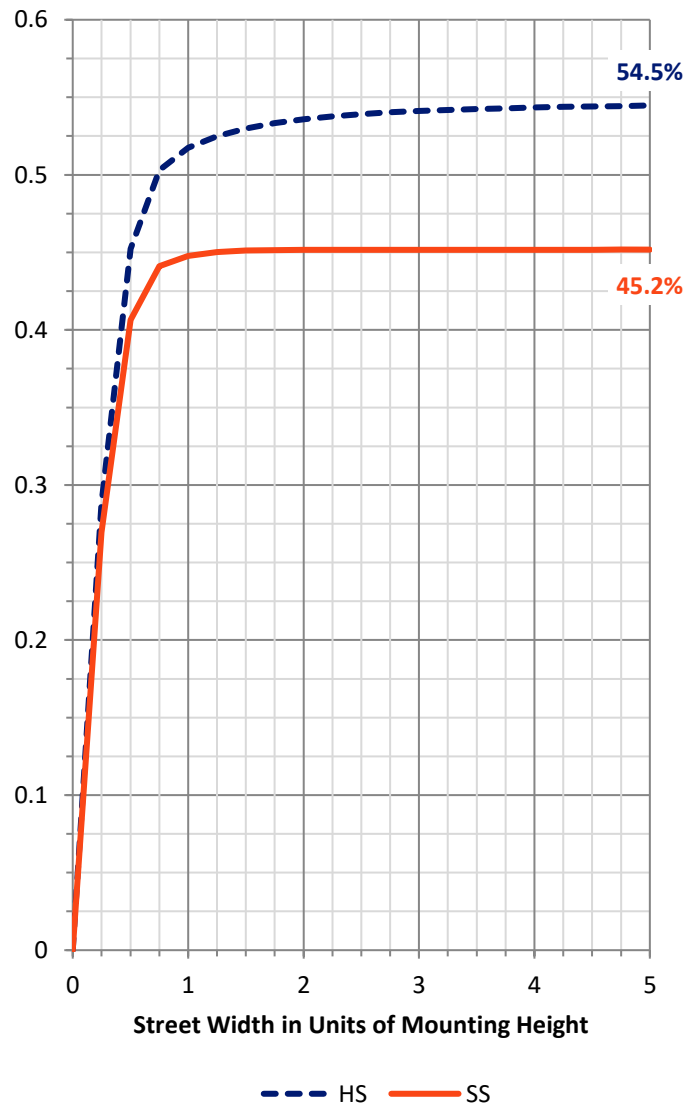
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13753.8	0.0	13753.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11160.8	0.0	11160.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	24914.6	0.0	24914.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3309.6	13.3
10°-20°	8581.9	34.4
20°-30°	7863.4	31.6
30°-40°	3176.8	12.8
40°-50°	931.9	3.7
50°-60°	521.1	2.1
60°-70°	316.5	1.3
70°-80°	160.8	0.6
80°-90°	52.6	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°	24914.6	100.0
0°-180°	24914.6	100.0

Coefficient of Utilization



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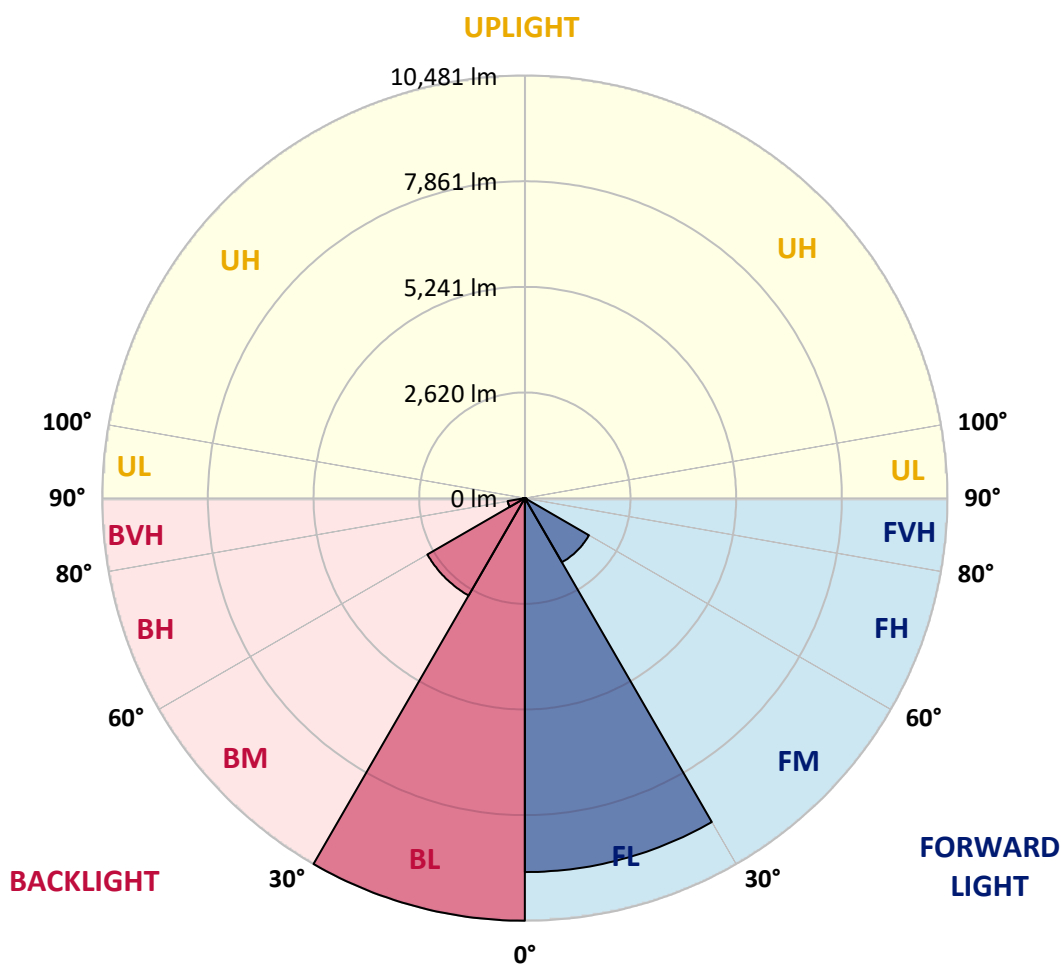
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9273.9	37.2			
FM	(30°-60°)	1837.9	7.4			
FH	(60°-80°)	44.5	0.2			G0/660
FVH	(80°-90°)	4.6	0.0			G0/10
BL	(0°-30°)	10481.1	42.1	B5		
BM	(30°-60°)	2791.9	11.2	B3/5000		
BH	(60°-80°)	432.8	1.7	B1/500		G1/500
BVH	(80°-90°)	48.0	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°	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0
2.5°	33955.3	34070.2	33840.4	33992.6	34110.4	34392.0	34414.9	34512.6	34547.1	34802.8
5°	33311.7	33400.8	33214.1	33418.0	33584.7	33834.6	34027.1	34297.2	34446.6	34748.2
7.5°	32642.3	32662.5	32625.1	32840.6	33090.5	33435.3	33673.7	34027.1	34119.0	34550.0
10°	31832.2	31685.7	31757.5	32073.5	32447.0	32975.6	33139.4	33492.7	33656.5	34096.1
12.5°	30539.4	30614.0	30525.0	30927.2	31237.5	31837.9	32010.3	32366.5	32679.7	33067.5
15°	28717.9	28674.8	28855.8	29169.0	29505.1	29982.0	30260.7	30648.5	30887.0	31289.2
17.5°	24624.0	24770.5	25517.5	26301.8	26991.3	27548.6	27881.9	28203.7	28376.0	28812.7
20°	21265.5	21081.6	21182.2	21624.6	23586.8	24440.1	24790.6	24868.2	24940.0	25284.7
22.5°	17510.6	17450.2	17786.4	18283.4	18748.8	20716.8	21193.7	21012.7	21162.1	21486.7
25°	13002.9	13307.5	13606.2	14560.1	15163.4	16128.7	17033.7	17114.1	17168.7	17372.7
27.5°	10583.9	10477.6	10471.9	10739.1	11629.7	12434.1	13204.0	13382.2	13350.6	13545.9
30°	8320.0	8285.6	8164.9	8228.1	8139.0	8854.4	9216.4	9949.0	9908.8	9914.5
32.5°	6001.6	5872.3	5823.4	5918.3	5826.3	5760.2	6076.3	6903.7	6889.3	6946.8
35°	3631.4	3614.2	3654.4	3737.7	3553.8	3548.1	3614.2	4392.7	4487.5	4579.5
37.5°	2005.3	1988.1	2019.7	2327.1	2266.7	2212.2	2229.4	2640.2	2913.2	2982.1
40°	1321.6	1318.7	1341.7	1396.2	1499.7	1479.6	1488.2	1672.1	1930.6	1990.9
42.5°	884.9	887.7	902.1	965.3	979.7	1083.1	1065.9	1109.0	1350.3	1402.0
45°	706.7	703.9	712.5	683.8	701.0	807.3	818.8	821.7	1028.5	1060.1
47.5°	557.4	557.4	566.0	528.6	520.0	586.1	646.4	655.0	821.7	864.8
50°	390.7	390.7	433.8	416.6	436.7	456.8	522.9	531.5	672.3	718.2
52.5°	287.3	293.0	298.8	301.7	367.7	364.9	422.3	462.5	508.5	589.0
55°	218.3	224.1	209.7	224.1	272.9	304.5	316.0	373.5	405.1	494.1
57.5°	143.6	158.0	146.5	172.4	183.9	235.6	252.8	307.4	327.5	405.1
60°	20.1	23.0	37.3	120.7	129.3	155.1	195.4	244.2	264.3	330.4
62.5°	2.9	2.9	8.6	20.1	86.2	103.4	146.5	169.5	195.4	247.1
65°	0.0	0.0	2.9	5.7	17.2	60.3	74.7	91.9	135.0	178.1
67.5°	0.0	0.0	2.9	5.7	8.6	20.1	31.6	60.3	77.6	123.5
70°	0.0	0.0	2.9	5.7	8.6	11.5	17.2	23.0	46.0	71.8
72.5°	0.0	0.0	2.9	5.7	8.6	11.5	14.4	17.2	20.1	46.0
75°	0.0	0.0	2.9	5.7	8.6	14.4	17.2	17.2	17.2	20.1
77.5°	0.0	0.0	2.9	5.7	11.5	17.2	20.1	17.2	14.4	14.4
80°	0.0	0.0	2.9	8.6	14.4	20.1	23.0	17.2	11.5	8.6
82.5°	0.0	0.0	2.9	8.6	14.4	20.1	23.0	20.1	11.5	8.6
85°	0.0	0.0	2.9	8.6	11.5	14.4	23.0	20.1	11.5	5.7
87.5°	0.0	0.0	0.0	2.9	2.9	5.7	11.5	8.6	5.7	2.9
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°
34708.0	0°	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0	34708.0
34797.1	2.5°	35055.6	35184.9	35411.9	35475.1	35670.4	35446.3	35322.8	35334.3	35067.1
34710.9	5°	35055.6	35351.5	35748.0	35937.6	36081.3	36069.8	36038.2	35957.7	35762.4
34538.5	7.5°	34963.7	35446.3	35992.2	36245.0	36417.4	36403.0	36474.8	36345.6	36107.1
34231.1	10°	34667.8	35087.2	35759.5	35966.3	36245.0	36250.8	36161.7	36187.6	35762.4
33107.8	12.5°	33736.9	34064.5	34653.4	34889.0	35228.0	35282.6	35184.9	35147.5	34745.3
31266.2	15°	31935.6	32125.2	32717.0	32952.6	33288.8	33242.8	33340.5	33300.2	32946.9
28778.2	17.5°	29301.1	29361.4	29982.0	30180.2	30496.3	30619.8	30473.3	30660.0	30355.5
25345.1	20°	25523.2	25847.8	26546.0	26850.5	27034.4	27255.6	27063.1	27272.8	26916.6
21179.3	22.5°	21690.7	21883.2	22515.2	22954.8	23296.7	23339.8	23267.9	23414.5	22934.7
17507.7	25°	17504.8	17823.7	18323.6	18898.2	19234.3	19441.2	19254.4	19349.3	19271.7
13577.5	27.5°	13807.4	14091.8	14468.1	14896.2	15401.8	15671.9	15522.5	15683.4	15304.2
10124.2	30°	10132.9	10276.5	10701.7	11155.6	11710.1	12037.6	12052.0	12215.7	11991.7
7093.3	32.5°	7145.0	7271.4	7532.8	7834.5	8363.1	8728.0	8670.5	8693.5	8555.6
4622.6	35°	4645.5	4815.0	5001.8	5145.4	5464.3	5866.5	5834.9	5806.2	5711.4
3039.6	37.5°	3105.6	3171.7	3275.2	3404.4	3611.3	3864.1	3947.4	3844.0	3803.8
2051.3	40°	2100.1	2215.0	2284.0	2381.7	2479.3	2691.9	2749.4	2729.3	2689.1
1436.5	42.5°	1491.1	1580.1	1666.3	1761.1	1812.8	1945.0	2057.0	2025.4	2008.2
1091.7	45°	1131.9	1212.4	1312.9	1384.8	1436.5	1514.0	1620.3	1631.8	1606.0
876.2	47.5°	907.8	979.7	1060.1	1149.2	1209.5	1258.3	1350.3	1384.8	1367.5
738.3	50°	769.9	824.5	902.1	991.2	1057.2	1100.3	1180.8	1218.1	1206.6
617.7	52.5°	655.0	721.1	792.9	867.6	948.1	991.2	1065.9	1120.4	1111.8
511.4	55°	543.0	629.2	703.9	778.6	870.5	913.6	979.7	1051.5	1037.1
433.8	57.5°	474.0	545.9	623.4	695.3	792.9	850.4	910.7	985.4	982.5
356.2	60°	396.5	468.3	554.5	614.8	718.2	798.7	853.3	930.8	936.6
270.1	62.5°	316.0	405.1	471.2	554.5	649.3	744.1	795.8	873.4	902.1
206.9	65°	235.6	333.3	408.0	491.3	580.3	686.6	732.6	810.2	838.9
149.4	67.5°	175.2	249.9	344.8	416.6	517.1	609.1	663.6	735.5	755.6
89.1	70°	132.2	192.5	287.3	350.5	453.9	528.6	583.2	637.8	663.6
60.3	72.5°	77.6	143.6	227.0	301.7	390.7	453.9	494.1	537.2	554.5
28.7	75°	54.6	109.2	178.1	249.9	316.0	367.7	405.1	442.4	459.7
14.4	77.5°	28.7	80.4	140.8	201.1	247.1	290.2	327.5	356.2	367.7
11.5	80°	17.2	57.5	114.9	158.0	189.6	227.0	264.3	284.4	281.5
8.6	82.5°	11.5	46.0	83.3	114.9	137.9	166.6	192.5	206.9	206.9
5.7	85°	8.6	31.6	57.5	89.1	91.9	114.9	120.7	135.0	137.9
5.7	87.5°	5.7	20.1	31.6	51.7	48.8	60.3	63.2	71.8	77.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
34708.0
34851.6
35825.6
36161.7
35638.8
34653.4
33058.9
30280.8
26887.8
22868.6
19222.8
15401.8
12031.9
8633.2
5628.1
3795.2
2694.8
1993.8
1603.1
1358.9
1203.8
1106.1
1037.1
979.7
936.6
899.2
836.0
755.6
657.9
548.7
453.9
364.9
278.7
204.0
135.0
74.7
0.0

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