

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: P637735

Luminaire Tested: **IFLD-S-SA6C-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637735
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28691.9 lumens
Efficiency: N/A
Efficacy: 89.2 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): 321.5
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



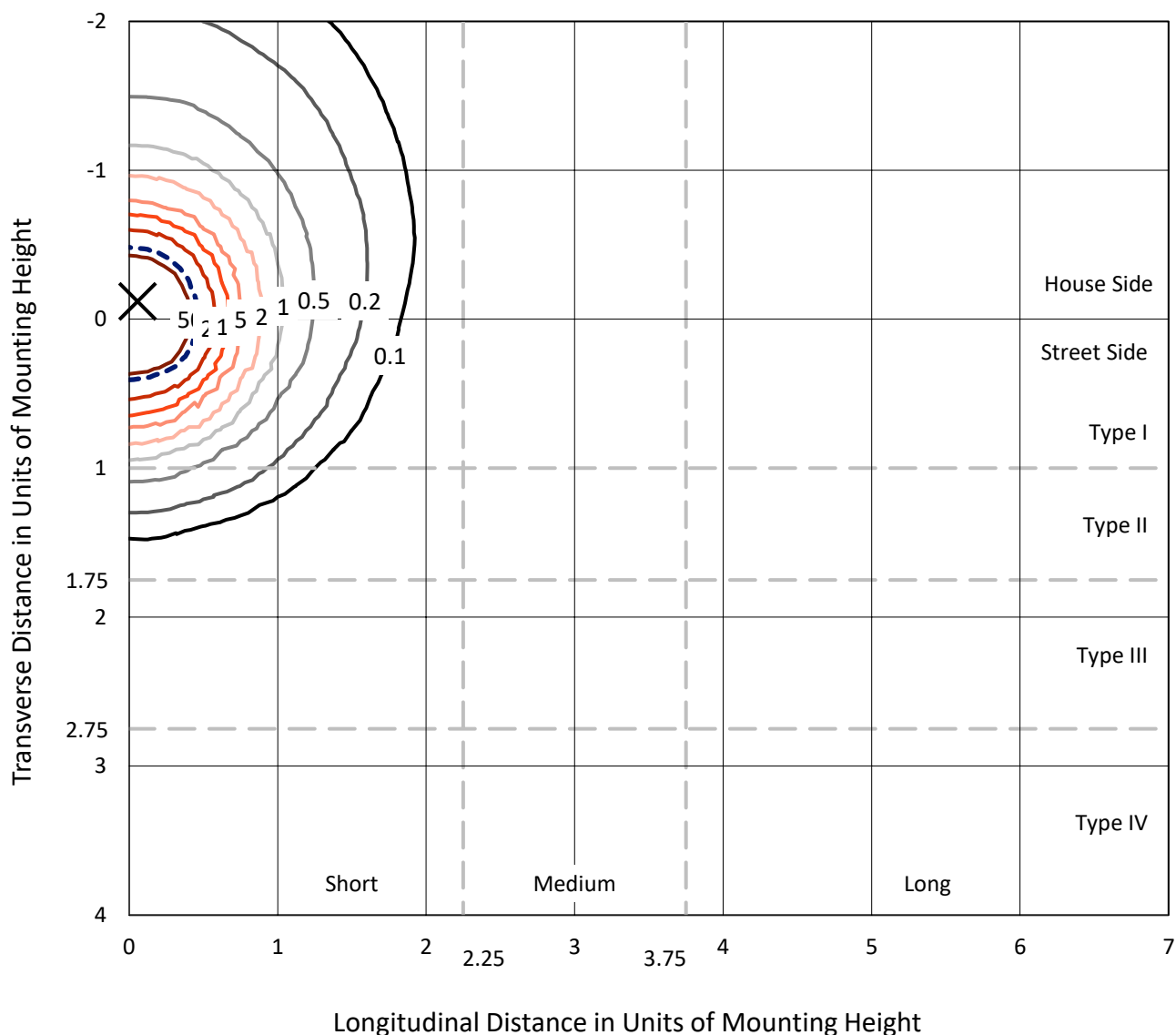
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

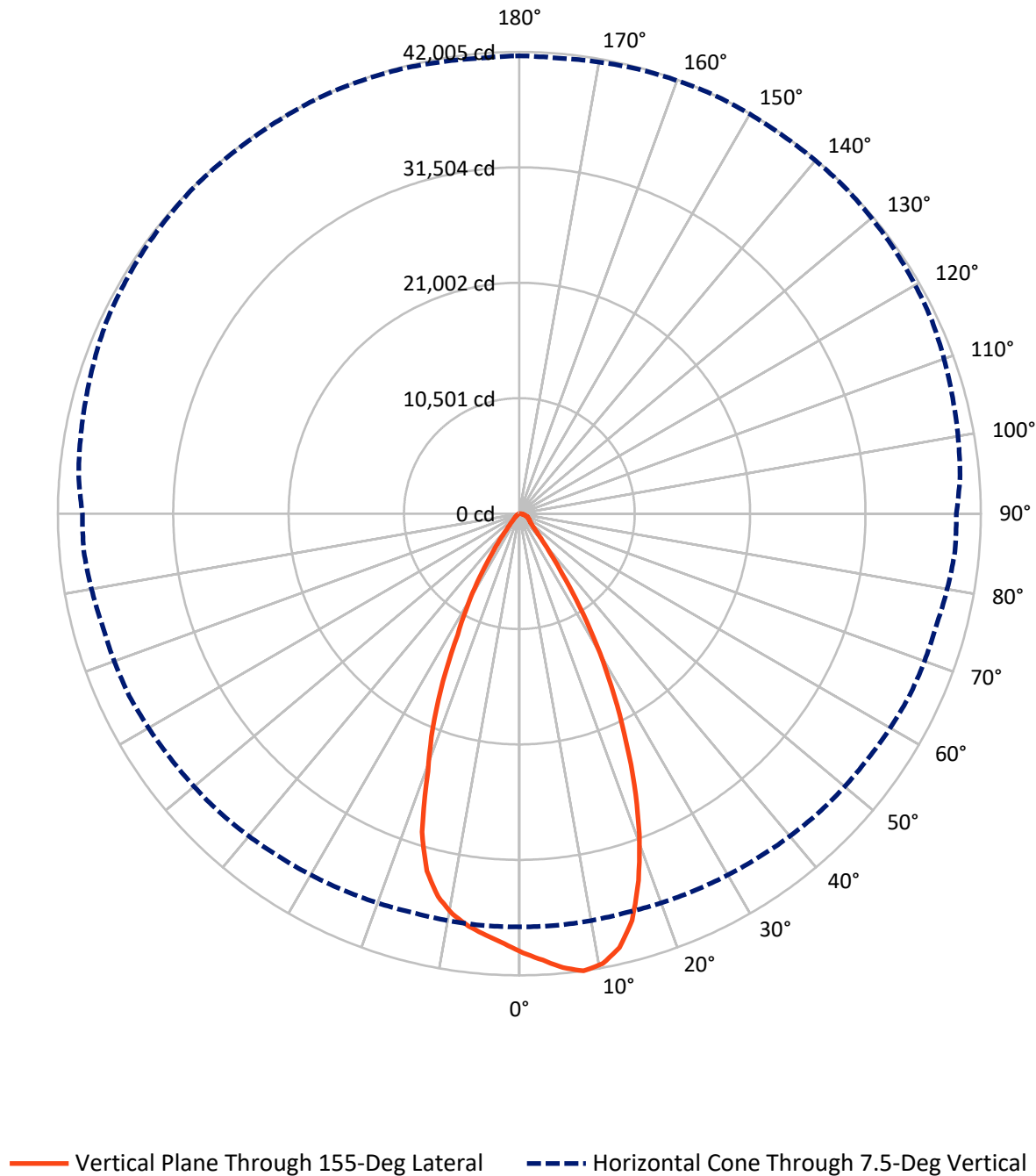


Based on 20 foot mounting height. Maximum calculated value = 101.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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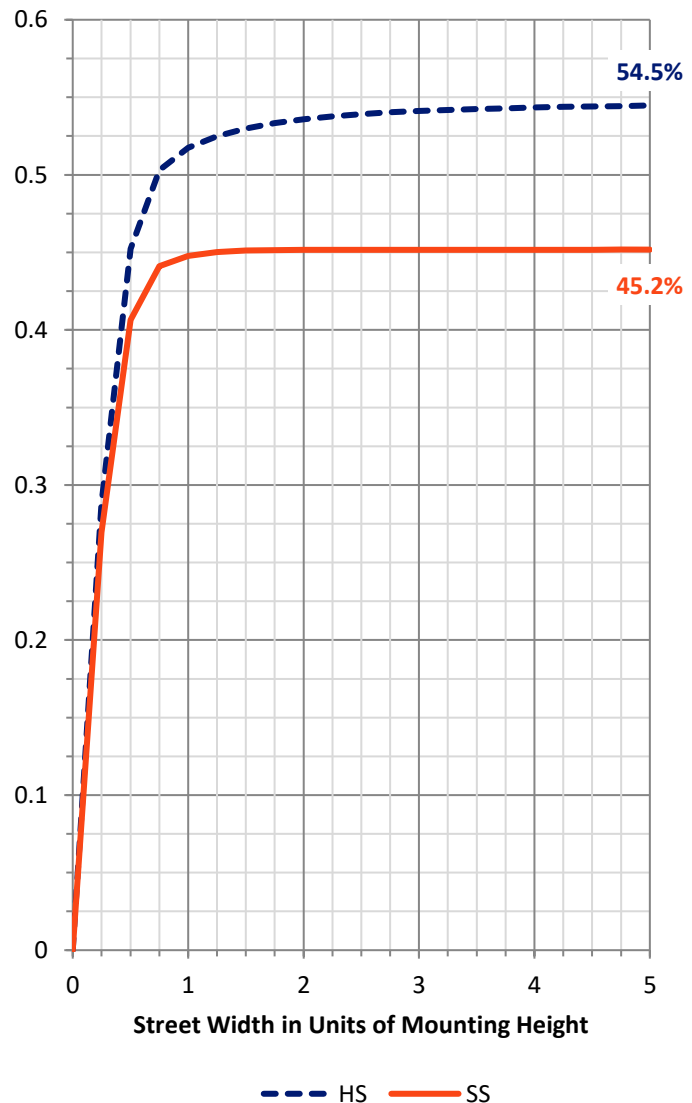
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15839.0	0.0	15839.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12852.9	0.0	12852.9
	% Fixture	44.8	0.0	44.8
Total	Lumens	28691.9	0.0	28691.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3811.4	13.3
10°-20°	9883.0	34.4
20°-30°	9055.6	31.6
30°-40°	3658.5	12.8
40°-50°	1073.2	3.7
50°-60°	600.1	2.1
60°-70°	364.5	1.3
70°-80°	185.2	0.6
80°-90°	60.6	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°	28691.9	100.0
0°-180°	28691.9	100.0

Coefficient of Utilization



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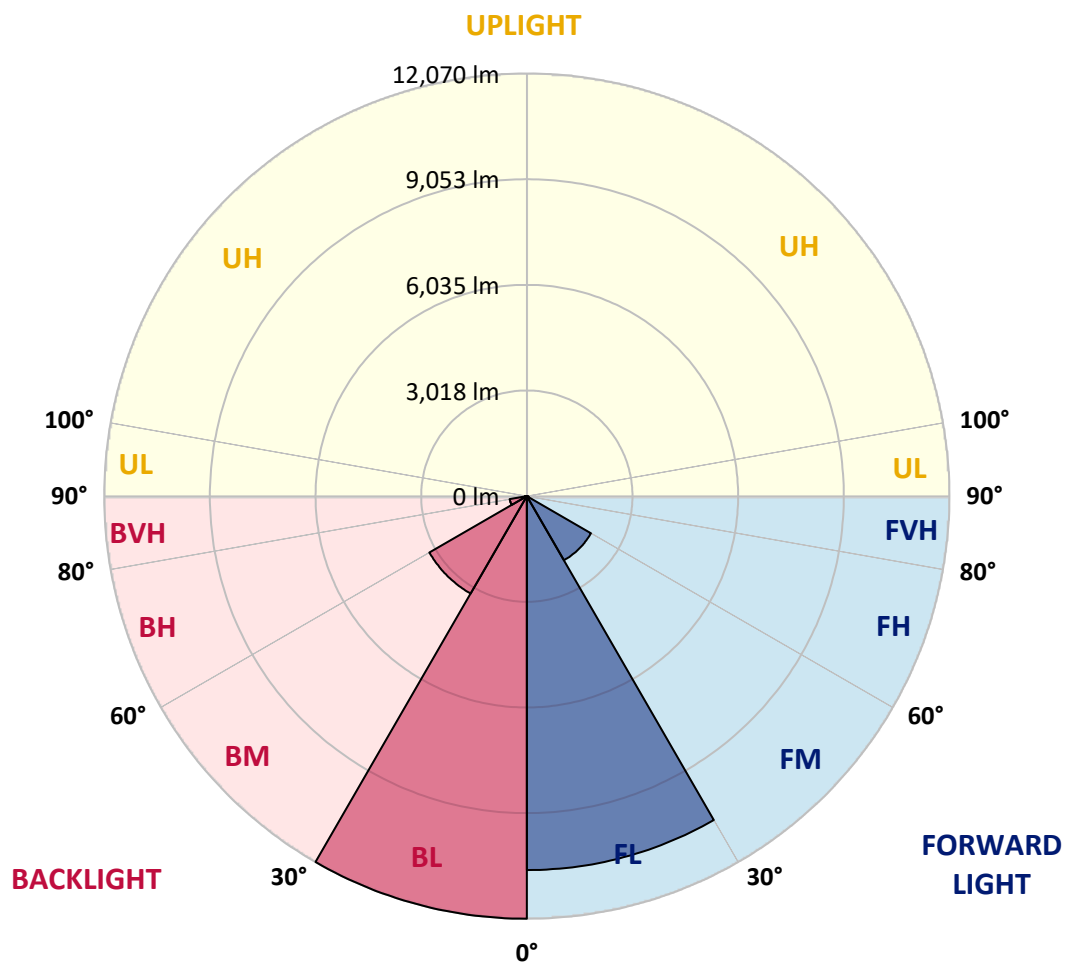
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10679.9	37.2			
FM	(30°-60°)	2116.6	7.4			
FH	(60°-80°)	51.3	0.2			G0/660
FVH	(80°-90°)	5.2	0.0			G0/10
BL	(0°-30°)	12070.1	42.1	B5		
BM	(30°-60°)	3215.2	11.2	B3/5000		
BH	(60°-80°)	498.4	1.7	B1/500		G1/500
BVH	(80°-90°)	55.3	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°	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1
2.5°	39103.3	39235.6	38970.9	39146.3	39281.9	39606.2	39632.6	39745.1	39784.8	40079.3
5°	38362.2	38464.7	38249.7	38484.6	38676.5	38964.3	39186.0	39497.0	39669.0	40016.4
7.5°	37591.3	37614.4	37571.4	37819.6	38107.4	38504.4	38779.0	39186.0	39291.9	39788.1
10°	36658.3	36489.6	36572.3	36936.2	37366.3	37975.1	38163.7	38570.6	38759.2	39265.4
12.5°	35169.5	35255.5	35152.9	35616.1	35973.4	36664.9	36863.4	37273.7	37634.3	38080.9
15°	33071.9	33022.2	33230.7	33591.3	33978.4	34527.6	34848.5	35295.2	35569.8	36033.0
17.5°	28357.2	28526.0	29386.2	30289.4	31083.4	31725.3	32109.1	32479.6	32678.1	33181.0
20°	24489.6	24277.8	24393.6	24903.2	27162.9	28145.5	28549.1	28638.5	28721.2	29118.2
22.5°	20165.4	20095.9	20483.0	21055.4	21591.3	23857.7	24406.9	24198.4	24370.5	24744.3
25°	14974.3	15325.0	15669.1	16767.5	17462.3	18574.0	19616.2	19708.8	19771.7	20006.6
27.5°	12188.5	12066.1	12059.5	12367.2	13392.8	14319.2	15205.9	15411.0	15374.6	15599.6
30°	9581.4	9541.7	9402.8	9475.6	9373.0	10196.8	10613.7	11457.4	11411.0	11417.7
32.5°	6911.5	6762.6	6706.3	6815.5	6709.7	6633.6	6997.5	7950.3	7933.8	8000.0
35°	4182.0	4162.1	4208.4	4304.4	4092.6	4086.0	4162.1	5058.7	5167.9	5273.8
37.5°	2309.3	2289.5	2325.9	2679.9	2610.4	2547.6	2567.4	3040.5	3354.8	3434.2
40°	1521.9	1518.6	1545.1	1607.9	1727.0	1703.9	1713.8	1925.6	2223.3	2292.8
42.5°	1019.0	1022.3	1038.9	1111.7	1128.2	1247.3	1227.5	1277.1	1555.0	1614.6
45°	813.9	810.6	820.5	787.4	807.3	929.7	942.9	946.2	1184.4	1220.8
47.5°	641.9	641.9	651.8	608.8	598.8	674.9	744.4	754.3	946.2	995.9
50°	450.0	450.0	499.6	479.7	502.9	526.1	602.1	612.1	774.2	827.1
52.5°	330.9	337.5	344.1	347.4	423.5	420.2	486.4	532.7	585.6	678.2
55°	251.4	258.1	241.5	258.1	314.3	350.7	363.9	430.1	466.5	569.1
57.5°	165.4	182.0	168.7	198.5	211.7	271.3	291.1	354.0	377.2	466.5
60°	23.2	26.5	43.0	139.0	148.9	178.7	225.0	281.2	304.4	380.5
62.5°	3.3	3.3	9.9	23.2	99.3	119.1	168.7	195.2	225.0	284.5
65°	0.0	0.0	3.3	6.6	19.9	69.5	86.0	105.9	155.5	205.1
67.5°	0.0	0.0	3.3	6.6	9.9	23.2	36.4	69.5	89.3	142.3
70°	0.0	0.0	3.3	6.6	9.9	13.2	19.9	26.5	52.9	82.7
72.5°	0.0	0.0	3.3	6.6	9.9	13.2	16.5	19.9	23.2	52.9
75°	0.0	0.0	3.3	6.6	9.9	16.5	19.9	19.9	19.9	23.2
77.5°	0.0	0.0	3.3	6.6	13.2	19.9	23.2	19.9	16.5	16.5
80°	0.0	0.0	3.3	9.9	16.5	23.2	26.5	19.9	13.2	9.9
82.5°	0.0	0.0	3.3	9.9	16.5	23.2	26.5	23.2	13.2	9.9
85°	0.0	0.0	3.3	9.9	13.2	16.5	26.5	23.2	13.2	6.6
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	13.2	9.9	6.6	3.3
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°
39970.1	0°	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1	39970.1
40072.7	2.5°	40370.4	40519.3	40780.7	40853.5	41078.5	40820.4	40678.1	40691.4	40383.7
39973.4	5°	40370.4	40711.2	41167.8	41386.1	41551.6	41538.3	41501.9	41409.3	41184.3
39774.9	7.5°	40264.6	40820.4	41449.0	41740.2	41938.7	41922.1	42004.8	41856.0	41581.3
39420.9	10°	39923.8	40406.8	41181.0	41419.2	41740.2	41746.8	41644.2	41674.0	41184.3
38127.3	12.5°	38851.8	39229.0	39907.2	40178.5	40568.9	40631.8	40519.3	40476.3	40013.1
36006.5	15°	36777.4	36995.8	37677.3	37948.6	38335.7	38282.8	38395.3	38348.9	37942.0
33141.3	17.5°	33743.5	33813.0	34527.6	34755.9	35119.8	35262.1	35093.4	35308.4	34957.7
29187.7	20°	29392.8	29766.7	30570.6	30921.3	31133.1	31387.8	31166.2	31407.7	30997.4
24390.3	22.5°	24979.2	25200.9	25928.8	26435.0	26828.7	26878.3	26795.6	26964.4	26411.8
20162.1	25°	20158.7	20526.0	21101.7	21763.4	22150.5	22388.7	22173.6	22282.8	22193.5
15636.0	27.5°	15900.7	16228.2	16661.7	17154.6	17736.9	18047.9	17875.9	18061.2	17624.4
11659.2	30°	11669.1	11834.5	12324.2	12846.9	13485.5	13862.7	13879.2	14067.8	13809.7
8168.7	32.5°	8228.3	8373.8	8674.9	9022.3	9631.1	10051.3	9985.1	10011.5	9852.7
5323.4	35°	5349.9	5545.1	5760.1	5925.5	6292.8	6756.0	6719.6	6686.5	6577.3
3500.4	37.5°	3576.5	3652.6	3771.7	3920.6	4158.8	4449.9	4545.9	4426.8	4380.5
2362.3	40°	2418.5	2550.9	2630.3	2742.8	2855.2	3100.1	3166.2	3143.1	3096.8
1654.3	42.5°	1717.1	1819.7	1918.9	2028.1	2087.7	2239.9	2368.9	2332.5	2312.6
1257.2	45°	1303.6	1396.2	1512.0	1594.7	1654.3	1743.6	1866.0	1879.2	1849.5
1009.1	47.5°	1045.5	1128.2	1220.8	1323.4	1392.9	1449.1	1555.0	1594.7	1574.9
850.3	50°	886.7	949.5	1038.9	1141.4	1217.5	1267.2	1359.8	1402.8	1389.6
711.3	52.5°	754.3	830.4	913.1	999.2	1091.8	1141.4	1227.5	1290.3	1280.4
588.9	55°	625.3	724.6	810.6	896.6	1002.5	1052.1	1128.2	1210.9	1194.4
499.6	57.5°	545.9	628.6	717.9	800.7	913.1	979.3	1048.8	1134.8	1131.5
410.3	60°	456.6	539.3	638.5	708.0	827.1	919.8	982.6	1072.0	1078.6
311.0	62.5°	363.9	466.5	542.6	638.5	747.7	856.9	916.5	1005.8	1038.9
238.2	65°	271.3	383.8	469.8	565.8	668.3	790.7	843.7	933.0	966.1
172.0	67.5°	201.8	287.8	397.0	479.7	595.5	701.4	764.3	847.0	870.1
102.6	70°	152.2	221.7	330.9	403.6	522.7	608.8	671.6	734.5	764.3
69.5	72.5°	89.3	165.4	261.4	347.4	450.0	522.7	569.1	618.7	638.5
33.1	75°	62.9	125.7	205.1	287.8	363.9	423.5	466.5	509.5	529.4
16.5	77.5°	33.1	92.6	162.1	231.6	284.5	334.2	377.2	410.3	423.5
13.2	80°	19.9	66.2	132.3	182.0	218.4	261.4	304.4	327.5	324.2
9.9	82.5°	13.2	52.9	95.9	132.3	158.8	191.9	221.7	238.2	238.2
6.6	85°	9.9	36.4	66.2	102.6	105.9	132.3	139.0	155.5	158.8
6.6	87.5°	6.6	23.2	36.4	59.6	56.2	69.5	72.8	82.7	89.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
39970.1
40135.5
41257.1
41644.2
41042.1
39907.2
38071.0
34871.7
30964.3
26335.7
22137.2
17736.9
13856.0
9942.1
6481.4
4370.5
3103.4
2296.1
1846.1
1564.9
1386.3
1273.8
1194.4
1128.2
1078.6
1035.6
962.8
870.1
757.6
631.9
522.7
420.2
320.9
234.9
155.5
86.0
0.0

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