

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: P637677

Luminaire Tested: **IFLD-S-SA6C-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637677
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39925.2 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

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

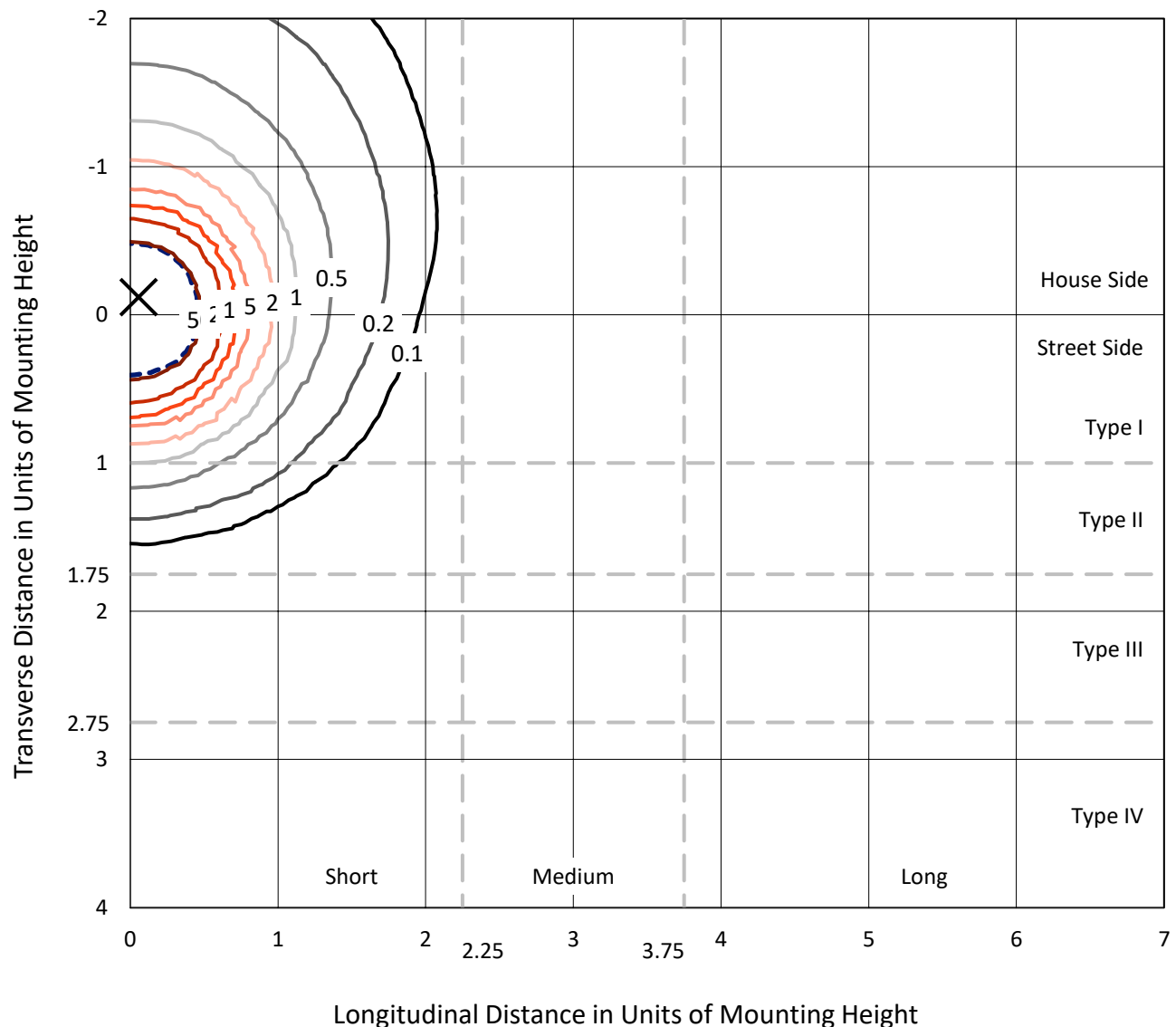


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



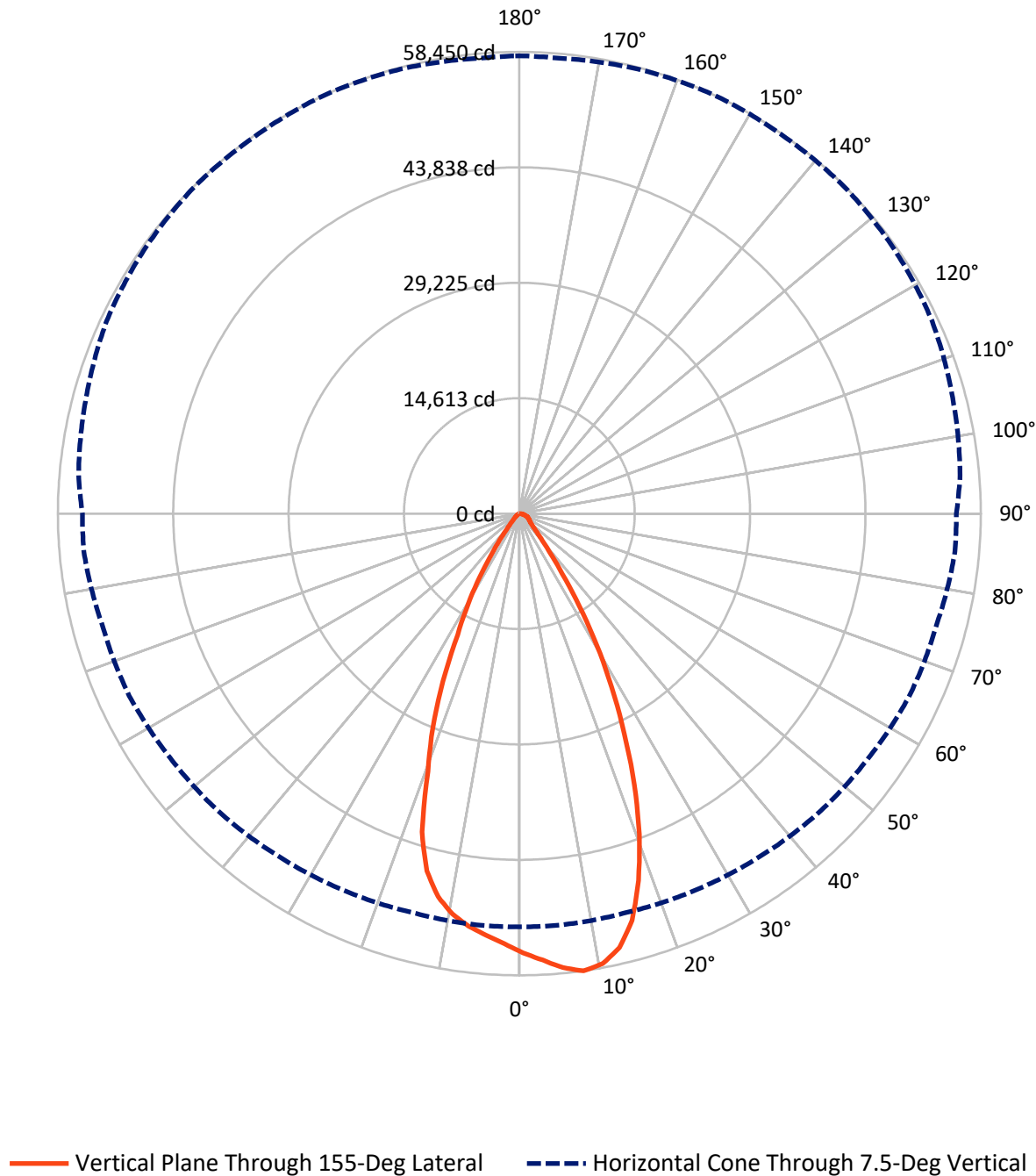
Based on 20 foot mounting height. Maximum calculated value = 141.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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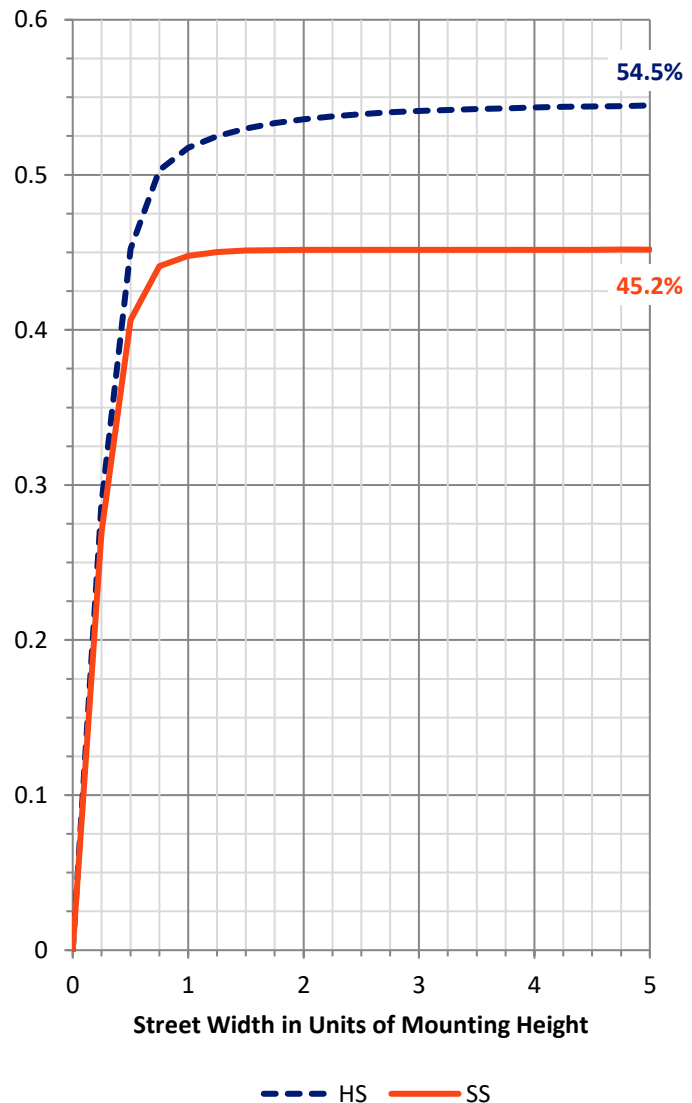
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22040.2	0.0	22040.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17885.0	0.0	17885.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	39925.2	0.0	39925.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5303.6	13.3
10°-20°	13752.3	34.4
20°-30°	12601.0	31.6
30°-40°	5090.8	12.8
40°-50°	1493.4	3.7
50°-60°	835.0	2.1
60°-70°	507.2	1.3
70°-80°	257.7	0.6
80°-90°	84.3	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°	39925.2	100.0
0°-180°	39925.2	100.0

Coefficient of Utilization



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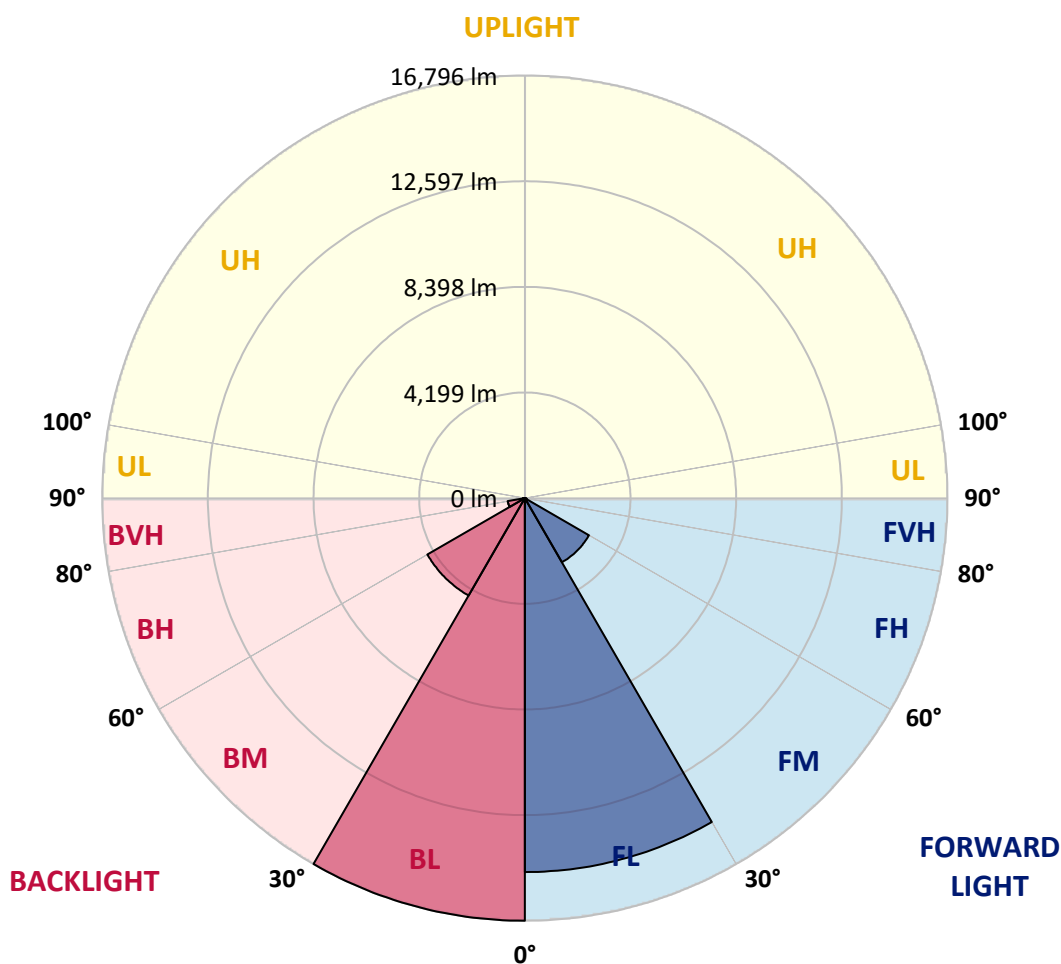
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14861.2	37.2			
FM	(30°-60°)	2945.2	7.4			
FH	(60°-80°)	71.3	0.2			G0/660
FVH	(80°-90°)	7.3	0.0			G0/10
BL	(0°-30°)	16795.7	42.1	B5		
BM	(30°-60°)	4474.0	11.2	B3/5000		
BH	(60°-80°)	693.5	1.7	B2/1000		G2/1000
BVH	(80°-90°)	77.0	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-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9
2.5°	54412.6	54596.8	54228.5	54472.5	54661.3	55112.4	55149.3	55305.8	55361.0	55770.8
5°	53381.4	53524.1	53224.9	53551.7	53818.8	54219.3	54527.7	54960.5	55199.9	55683.3
7.5°	52308.7	52340.9	52281.1	52626.4	53026.9	53579.4	53961.5	54527.7	54675.1	55365.6
10°	51010.4	50775.6	50890.7	51397.1	51995.6	52842.7	53105.2	53671.4	53933.8	54638.2
12.5°	48938.7	49058.4	48915.7	49560.2	50057.4	51019.6	51295.9	51866.7	52368.5	52990.1
15°	46019.9	45950.8	46240.9	46742.7	47281.3	48045.6	48492.1	49113.6	49495.8	50140.3
17.5°	39459.4	39694.2	40891.2	42148.0	43253.0	44146.1	44680.2	45195.8	45472.0	46171.8
20°	34077.5	33782.9	33944.0	34653.0	37797.4	39164.8	39726.4	39850.7	39965.8	40518.3
22.5°	28060.3	27963.7	28502.3	29298.8	30044.6	33198.2	33962.4	33672.4	33911.8	34432.0
25°	20836.9	21324.9	21803.7	23332.2	24299.0	25845.9	27296.1	27425.0	27512.5	27839.4
27.5°	16960.5	16790.2	16781.0	17209.1	18636.3	19925.4	21159.2	21444.6	21394.0	21707.1
30°	13332.7	13277.4	13084.1	13185.4	13042.6	14189.0	14769.1	15943.1	15878.6	15887.8
32.5°	9617.4	9410.2	9332.0	9483.9	9336.6	9230.7	9737.1	11063.0	11040.0	11132.1
35°	5819.2	5791.6	5856.1	5989.6	5694.9	5685.7	5791.6	7039.3	7191.2	7338.5
37.5°	3213.5	3185.8	3236.5	3729.1	3632.4	3544.9	3572.6	4230.9	4668.3	4778.8
40°	2117.8	2113.2	2150.0	2237.5	2403.2	2371.0	2384.8	2679.4	3093.8	3190.5
42.5°	1418.0	1422.6	1445.6	1546.9	1569.9	1735.6	1708.0	1777.1	2163.8	2246.7
45°	1132.5	1127.9	1141.7	1095.7	1123.3	1293.7	1312.1	1316.7	1648.2	1698.8
47.5°	893.1	893.1	907.0	847.1	833.3	939.2	1035.9	1049.7	1316.7	1385.8
50°	626.1	626.1	695.2	667.6	699.8	732.0	837.9	851.7	1077.3	1151.0
52.5°	460.4	469.6	478.8	483.4	589.3	584.7	676.8	741.2	814.9	943.8
55°	349.9	359.1	336.1	359.1	437.4	488.0	506.4	598.5	649.1	791.9
57.5°	230.2	253.2	234.8	276.2	294.6	377.5	405.1	492.6	524.8	649.1
60°	32.2	36.8	59.8	193.4	207.2	248.6	313.1	391.3	423.6	529.4
62.5°	4.6	4.6	13.8	32.2	138.1	165.7	234.8	271.6	313.1	395.9
65°	0.0	0.0	4.6	9.2	27.6	96.7	119.7	147.3	216.4	285.4
67.5°	0.0	0.0	4.6	9.2	13.8	32.2	50.6	96.7	124.3	198.0
70°	0.0	0.0	4.6	9.2	13.8	18.4	27.6	36.8	73.7	115.1
72.5°	0.0	0.0	4.6	9.2	13.8	18.4	23.0	27.6	32.2	73.7
75°	0.0	0.0	4.6	9.2	13.8	23.0	27.6	27.6	27.6	32.2
77.5°	0.0	0.0	4.6	9.2	18.4	27.6	32.2	27.6	23.0	23.0
80°	0.0	0.0	4.6	13.8	23.0	32.2	36.8	27.6	18.4	13.8
82.5°	0.0	0.0	4.6	13.8	23.0	32.2	36.8	32.2	18.4	13.8
85°	0.0	0.0	4.6	13.8	18.4	23.0	36.8	32.2	18.4	9.2
87.5°	0.0	0.0	0.0	4.6	4.6	9.2	18.4	13.8	9.2	4.6
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°
55618.9	0°	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9	55618.9
55761.6	2.5°	56175.9	56383.1	56746.8	56848.1	57161.1	56802.0	56604.1	56622.5	56194.3
55623.5	5°	56175.9	56650.1	57285.4	57589.3	57819.5	57801.1	57750.4	57621.5	57308.5
55347.2	7.5°	56028.6	56802.0	57676.8	58081.9	58358.1	58335.1	58450.2	58243.0	57860.9
54854.6	10°	55554.4	56226.6	57303.9	57635.3	58081.9	58091.1	57948.4	57989.8	57308.5
53054.5	12.5°	54062.8	54587.6	55531.4	55908.9	56452.1	56539.6	56383.1	56323.2	55678.7
50103.5	15°	51176.2	51480.0	52428.4	52805.9	53344.6	53270.9	53427.4	53363.0	52796.7
46116.5	17.5°	46954.4	47051.1	48045.6	48363.2	48869.6	49067.6	48832.8	49132.1	48644.1
40615.0	20°	40900.4	41420.6	42539.4	43027.4	43322.0	43676.5	43368.1	43704.1	43133.3
33939.4	22.5°	34758.9	35067.4	36080.2	36784.6	37332.4	37401.5	37286.4	37521.2	36752.4
28055.7	25°	28051.1	28562.2	29363.2	30284.0	30822.6	31154.1	30854.9	31006.8	30882.5
21757.7	27.5°	22126.0	22581.8	23184.9	23870.9	24681.1	25113.9	24874.5	25132.3	24524.6
16223.9	30°	16237.7	16467.9	17149.3	17876.7	18765.2	19290.0	19313.1	19575.5	19216.4
11366.9	32.5°	11449.7	11652.3	12071.2	12554.6	13401.7	13986.4	13894.4	13931.2	13710.2
7407.6	35°	7444.4	7716.0	8015.3	8245.5	8756.5	9401.0	9350.4	9304.3	9152.4
4870.9	37.5°	4976.7	5082.6	5248.4	5455.5	5787.0	6192.1	6325.7	6159.9	6095.5
3287.1	40°	3365.4	3549.6	3660.0	3816.6	3973.1	4313.8	4405.9	4373.6	4309.2
2301.9	42.5°	2389.4	2532.1	2670.2	2822.1	2905.0	3116.8	3296.3	3245.7	3218.1
1749.5	45°	1813.9	1942.8	2103.9	2219.0	2301.9	2426.2	2596.6	2615.0	2573.5
1404.2	47.5°	1454.8	1569.9	1698.8	1841.5	1938.2	2016.5	2163.8	2219.0	2191.4
1183.2	50°	1233.8	1321.3	1445.6	1588.3	1694.2	1763.3	1892.2	1952.0	1933.6
989.8	52.5°	1049.7	1155.6	1270.7	1390.4	1519.3	1588.3	1708.0	1795.5	1781.7
819.5	55°	870.1	1008.2	1127.9	1247.6	1395.0	1464.0	1569.9	1685.0	1662.0
695.2	57.5°	759.6	874.7	999.0	1114.1	1270.7	1362.7	1459.4	1579.1	1574.5
570.9	60°	635.3	750.4	888.5	985.2	1151.0	1279.9	1367.3	1491.6	1500.8
432.8	62.5°	506.4	649.1	755.0	888.5	1040.5	1192.4	1275.3	1399.6	1445.6
331.5	65°	377.5	534.0	653.7	787.3	930.0	1100.3	1174.0	1298.3	1344.3
239.4	67.5°	280.8	400.5	552.5	667.6	828.7	976.0	1063.5	1178.6	1210.8
142.7	70°	211.8	308.5	460.4	561.7	727.4	847.1	934.6	1022.0	1063.5
96.7	72.5°	124.3	230.2	363.7	483.4	626.1	727.4	791.9	860.9	888.5
46.0	75°	87.5	174.9	285.4	400.5	506.4	589.3	649.1	709.0	736.6
23.0	77.5°	46.0	128.9	225.6	322.3	395.9	465.0	524.8	570.9	589.3
18.4	80°	27.6	92.1	184.2	253.2	303.9	363.7	423.6	455.8	451.2
13.8	82.5°	18.4	73.7	133.5	184.2	221.0	267.0	308.5	331.5	331.5
9.2	85°	13.8	50.6	92.1	142.7	147.3	184.2	193.4	216.4	221.0
9.2	87.5°	9.2	32.2	50.6	82.9	78.3	96.7	101.3	115.1	124.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
55618.9
55849.0
57409.7
57948.4
57110.5
55531.4
52976.3
48524.4
43087.2
36646.5
30804.2
24681.1
19280.8
13834.5
9018.9
6081.7
4318.4
3195.1
2568.9
2177.6
1929.0
1772.5
1662.0
1569.9
1500.8
1441.0
1339.7
1210.8
1054.3
879.3
727.4
584.7
446.6
326.9
216.4
119.7
0.0

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