

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: P637659

Luminaire Tested: **IFLD-L-SA7D-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637659
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45820.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 422.6
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



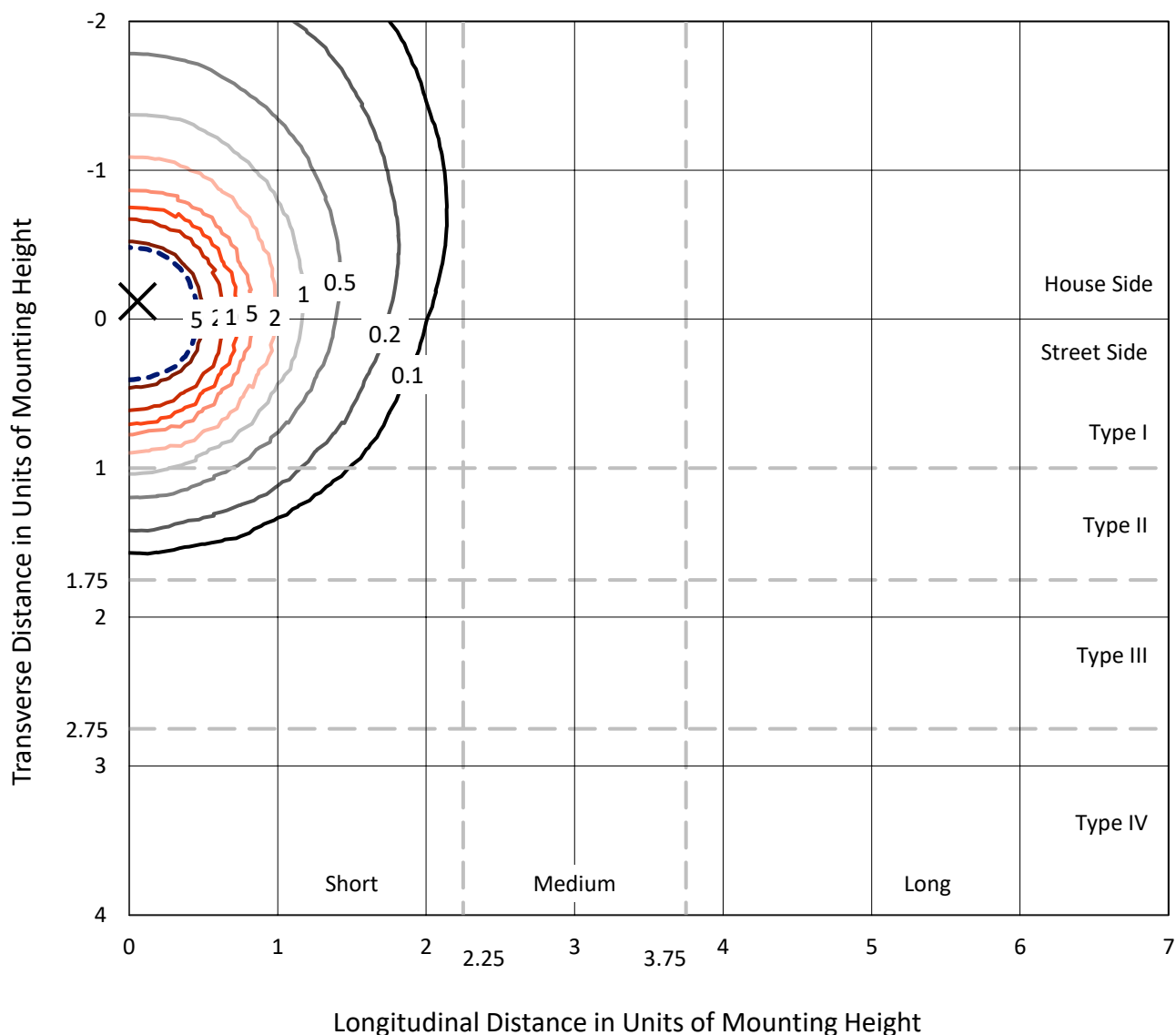
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

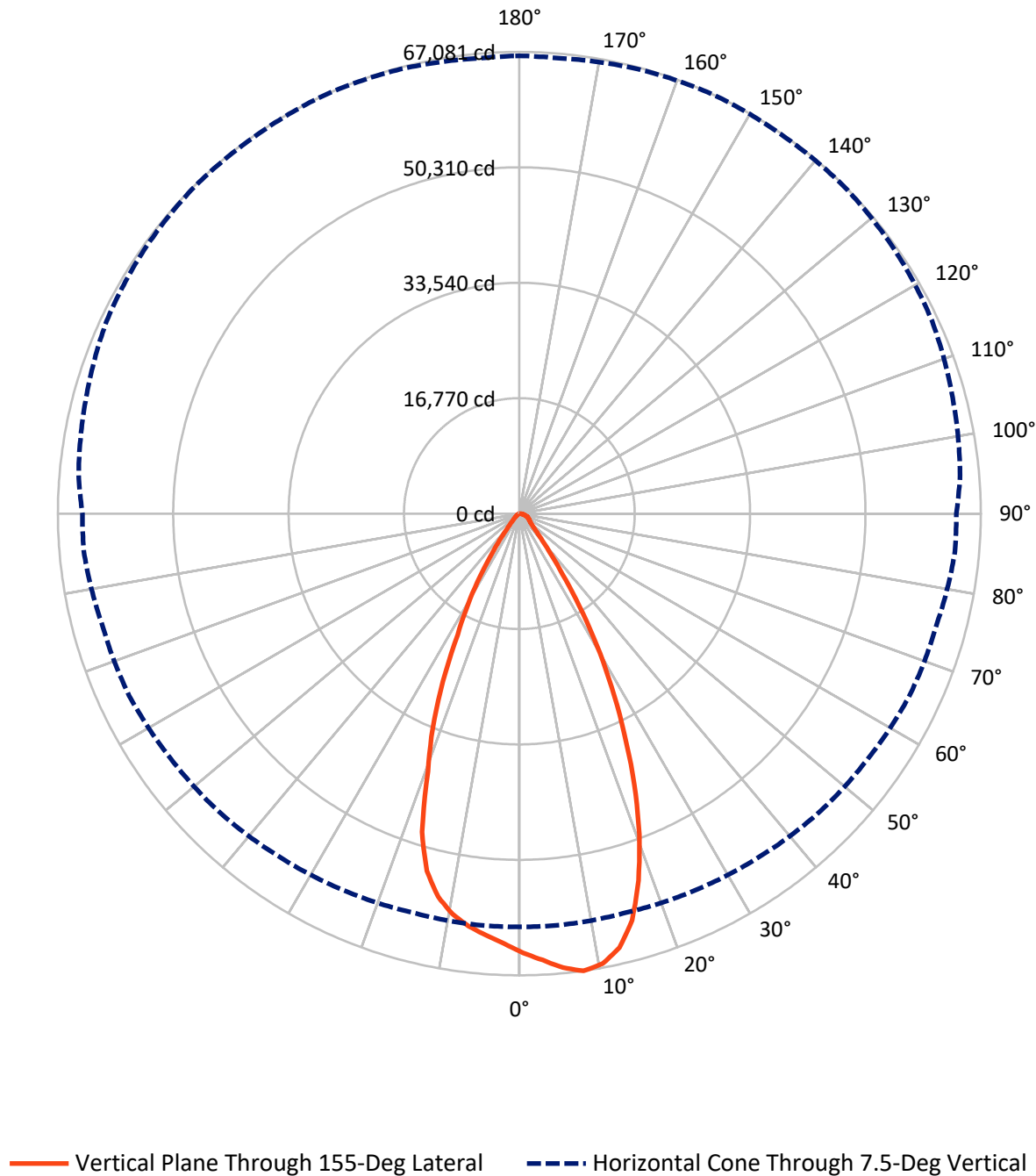


Based on 20 foot mounting height. Maximum calculated value = 162.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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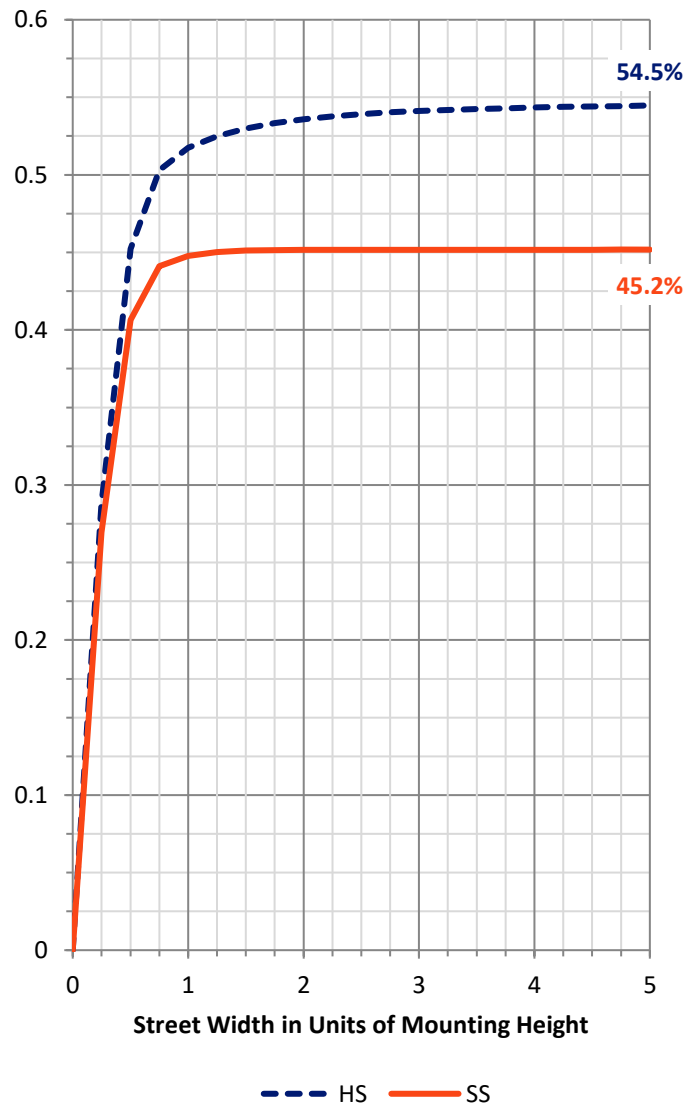
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25294.4	0.0	25294.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	20525.8	0.0	20525.8
	% Fixture	44.8	0.0	44.8
Total	Lumens	45820.2	0.0	45820.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6086.7	13.3
10°-20°	15782.9	34.4
20°-30°	14461.5	31.6
30°-40°	5842.4	12.8
40°-50°	1713.9	3.7
50°-60°	958.3	2.1
60°-70°	582.0	1.3
70°-80°	295.7	0.6
80°-90°	96.7	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°	45820.2	100.0
0°-180°	45820.2	100.0

Coefficient of Utilization



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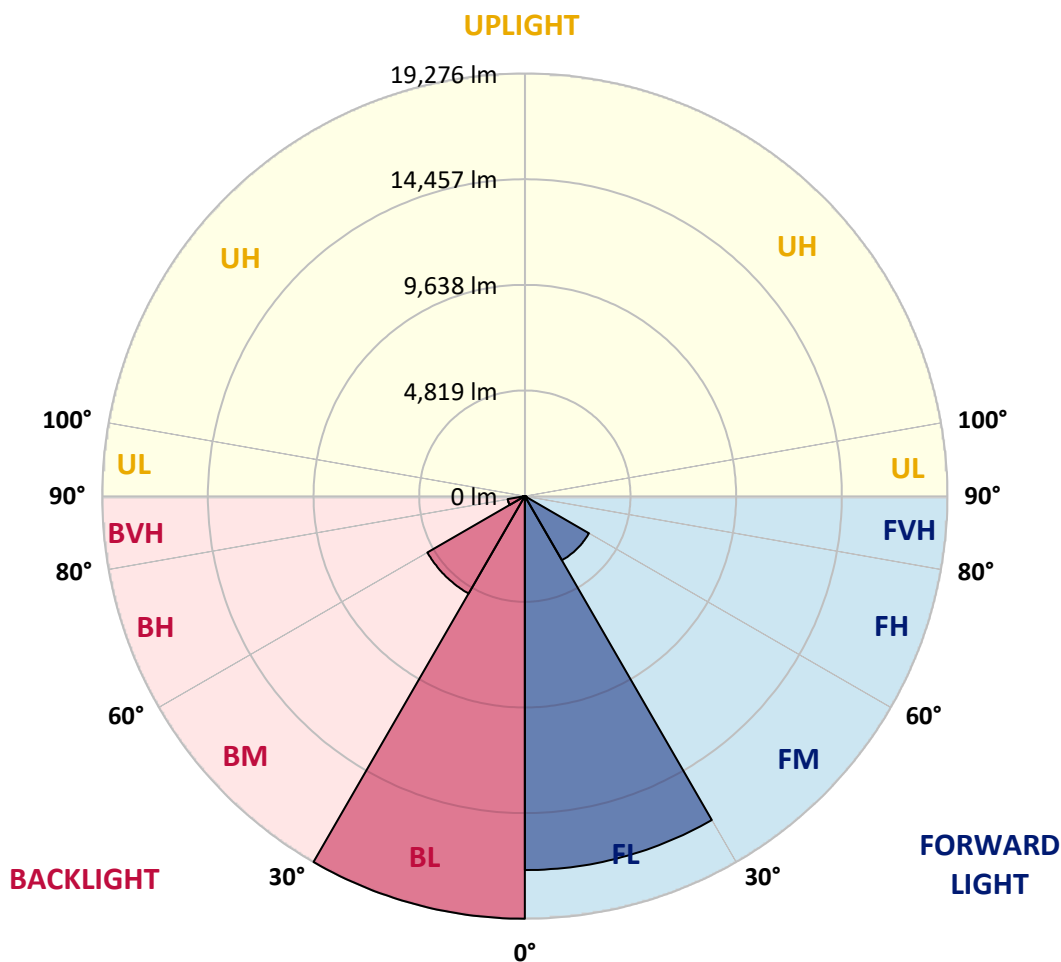
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	17055.4	37.2			
FM	(30°-60°)	3380.1	7.4			
FH	(60°-80°)	81.9	0.2			G0/660
FVH	(80°-90°)	8.4	0.0			G0/10
BL	(0°-30°)	19275.6	42.1	B5		
BM	(30°-60°)	5134.6	11.2	B4/8500		
BH	(60°-80°)	795.9	1.7	B2/1000		G2/1000
BVH	(80°-90°)	88.3	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1
2.5°	62446.8	62658.1	62235.5	62515.5	62732.1	63249.9	63292.2	63471.8	63535.2	64005.5
5°	61263.3	61427.1	61083.6	61458.8	61765.2	62224.9	62578.9	63075.5	63350.3	63905.1
7.5°	60032.2	60069.2	60000.5	60396.8	60856.4	61490.5	61929.0	62578.9	62748.0	63540.5
10°	58542.2	58272.8	58404.8	58986.0	59672.9	60645.1	60946.3	61596.1	61897.3	62705.7
12.5°	56164.6	56302.0	56138.2	56877.9	57448.5	58552.8	58869.8	59525.0	60100.9	60814.2
15°	52814.8	52735.6	53068.4	53644.3	54262.5	55139.6	55652.1	56365.4	56803.9	57543.6
17.5°	45285.7	45555.1	46928.9	48371.3	49639.4	50664.4	51277.3	51869.0	52186.1	52989.2
20°	39109.2	38771.0	38955.9	39769.6	43378.3	44947.5	45592.1	45734.8	45866.9	46500.9
22.5°	32203.5	32092.5	32710.7	33624.8	34480.7	38100.0	38977.1	38644.2	38919.0	39516.0
25°	23913.5	24473.6	25023.1	26777.3	27886.8	29662.1	31326.4	31474.4	31574.8	31949.9
27.5°	19464.8	19269.3	19258.7	19750.1	21388.0	22867.4	24283.4	24611.0	24552.9	24912.1
30°	15301.3	15237.9	15016.0	15132.2	14968.4	16284.0	16949.8	18297.1	18223.1	18233.7
32.5°	11037.4	10799.7	10709.8	10884.2	10715.1	10593.6	11174.8	12696.5	12670.1	12775.7
35°	6678.5	6646.8	6720.7	6874.0	6535.8	6525.2	6646.8	8078.6	8253.0	8422.0
37.5°	3687.9	3656.2	3714.4	4279.7	4168.8	4068.4	4100.1	4855.6	5357.6	5484.4
40°	2430.5	2425.2	2467.4	2567.8	2758.0	2721.1	2736.9	3075.1	3550.6	3661.5
42.5°	1627.3	1632.6	1659.0	1775.3	1801.7	1991.9	1960.2	2039.5	2483.3	2578.4
45°	1299.8	1294.5	1310.3	1257.5	1289.2	1484.7	1505.8	1511.1	1891.5	1949.6
47.5°	1025.0	1025.0	1040.9	972.2	956.3	1077.9	1188.8	1204.7	1511.1	1590.4
50°	718.6	718.6	797.8	766.1	803.1	840.1	961.6	977.5	1236.4	1320.9
52.5°	528.4	538.9	549.5	554.8	676.3	671.0	776.7	850.7	935.2	1083.1
55°	401.6	412.1	385.7	412.1	501.9	560.1	581.2	686.9	745.0	908.8
57.5°	264.2	290.6	269.5	317.0	338.2	433.3	465.0	565.3	602.3	745.0
60°	37.0	42.3	68.7	221.9	237.8	285.3	359.3	449.1	486.1	607.6
62.5°	5.3	5.3	15.9	37.0	158.5	190.2	269.5	311.7	359.3	454.4
65°	0.0	0.0	5.3	10.6	31.7	111.0	137.4	169.1	248.3	327.6
67.5°	0.0	0.0	5.3	10.6	15.9	37.0	58.1	111.0	142.7	227.2
70°	0.0	0.0	5.3	10.6	15.9	21.1	31.7	42.3	84.5	132.1
72.5°	0.0	0.0	5.3	10.6	15.9	21.1	26.4	31.7	37.0	84.5
75°	0.0	0.0	5.3	10.6	15.9	26.4	31.7	31.7	31.7	37.0
77.5°	0.0	0.0	5.3	10.6	21.1	31.7	37.0	31.7	26.4	26.4
80°	0.0	0.0	5.3	15.9	26.4	37.0	42.3	31.7	21.1	15.9
82.5°	0.0	0.0	5.3	15.9	26.4	37.0	42.3	37.0	21.1	15.9
85°	0.0	0.0	5.3	15.9	21.1	26.4	42.3	37.0	21.1	10.6
87.5°	0.0	0.0	0.0	5.3	5.3	10.6	21.1	15.9	10.6	5.3
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°
63831.1	0°	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1	63831.1
63994.9	2.5°	64470.4	64708.2	65125.6	65241.8	65601.1	65189.0	64961.8	64982.9	64491.5
63836.4	5°	64470.4	65014.6	65743.8	66092.5	66356.7	66335.5	66277.4	66129.5	65770.2
63519.4	7.5°	64301.3	65189.0	66192.9	66657.8	66974.8	66948.4	67080.5	66842.7	66404.2
62954.0	10°	63757.1	64528.5	65764.9	66145.3	66657.8	66668.4	66504.6	66552.1	65770.2
60888.1	12.5°	62045.2	62647.6	63730.7	64164.0	64787.4	64887.8	64708.2	64639.5	63899.8
57501.4	15°	58732.4	59081.1	60169.6	60602.8	61221.0	61136.5	61316.1	61242.1	60592.3
52925.8	17.5°	53887.4	53998.3	55139.6	55504.2	56085.3	56312.5	56043.1	56386.5	55826.5
46611.9	20°	46939.4	47536.5	48820.4	49380.5	49718.6	50125.5	49771.5	50157.2	49502.0
38950.7	22.5°	39891.1	40245.1	41407.5	42215.9	42844.7	42923.9	42791.8	43061.3	42178.9
32198.2	25°	32192.9	32779.4	33698.8	34755.5	35373.7	35754.1	35410.6	35585.0	35442.3
24970.3	27.5°	25393.0	25916.0	26608.2	27395.4	28325.3	28822.0	28547.3	28843.1	28145.7
18619.4	30°	18635.2	18899.4	19681.4	20516.2	21535.9	22138.3	22164.7	22465.8	22053.7
13045.2	32.5°	13140.3	13372.8	13853.6	14408.4	15380.5	16051.6	15945.9	15988.2	15734.5
8501.3	35°	8543.6	8855.3	9198.7	9462.9	10049.4	10789.1	10731.0	10678.1	10503.8
5590.0	37.5°	5711.6	5833.1	6023.3	6261.1	6641.5	7106.4	7259.7	7069.4	6995.5
3772.5	40°	3862.3	4073.7	4200.5	4380.1	4559.7	4950.7	5056.4	5019.4	4945.4
2641.8	42.5°	2742.2	2906.0	3064.5	3238.8	3333.9	3577.0	3783.1	3724.9	3693.2
2007.8	45°	2081.7	2229.7	2414.6	2546.7	2641.8	2784.5	2979.9	3001.1	2953.5
1611.5	47.5°	1669.6	1801.7	1949.6	2113.4	2224.4	2314.2	2483.3	2546.7	2515.0
1357.9	50°	1416.0	1516.4	1659.0	1822.8	1944.4	2023.6	2171.6	2240.2	2219.1
1136.0	52.5°	1204.7	1326.2	1458.3	1595.6	1743.6	1822.8	1960.2	2060.6	2044.8
940.5	55°	998.6	1157.1	1294.5	1431.9	1600.9	1680.2	1801.7	1933.8	1907.4
797.8	57.5°	871.8	1003.9	1146.5	1278.6	1458.3	1563.9	1674.9	1812.3	1807.0
655.2	60°	729.1	861.2	1019.7	1130.7	1320.9	1468.8	1569.2	1711.9	1722.5
496.7	62.5°	581.2	745.0	866.5	1019.7	1194.1	1368.5	1463.6	1606.2	1659.0
380.4	65°	433.3	612.9	750.3	903.5	1067.3	1262.8	1347.3	1490.0	1542.8
274.7	67.5°	322.3	459.7	634.0	766.1	951.0	1120.1	1220.5	1352.6	1389.6
163.8	70°	243.0	354.0	528.4	644.6	834.8	972.2	1072.6	1173.0	1220.5
111.0	72.5°	142.7	264.2	417.4	554.8	718.6	834.8	908.8	988.0	1019.7
52.8	75°	100.4	200.8	327.6	459.7	581.2	676.3	745.0	813.7	845.4
26.4	77.5°	52.8	147.9	258.9	369.9	454.4	533.6	602.3	655.2	676.3
21.1	80°	31.7	105.7	211.3	290.6	348.7	417.4	486.1	523.1	517.8
15.9	82.5°	21.1	84.5	153.2	211.3	253.6	306.4	354.0	380.4	380.4
10.6	85°	15.9	58.1	105.7	163.8	169.1	211.3	221.9	248.3	253.6
10.6	87.5°	10.6	37.0	58.1	95.1	89.8	111.0	116.2	132.1	142.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
63831.1
64095.3
65886.4
66504.6
65543.0
63730.7
60798.3
55689.1
49449.2
42057.4
35352.5
28325.3
22127.7
15877.2
10350.6
6979.6
4956.0
3666.8
2948.2
2499.1
2213.8
2034.2
1907.4
1801.7
1722.5
1653.8
1537.5
1389.6
1209.9
1009.2
834.8
671.0
512.5
375.1
248.3
137.4
0.0

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