

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: P638208

Luminaire Tested: **IFLD-L-SA7B-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638208
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28019.5 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 281
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



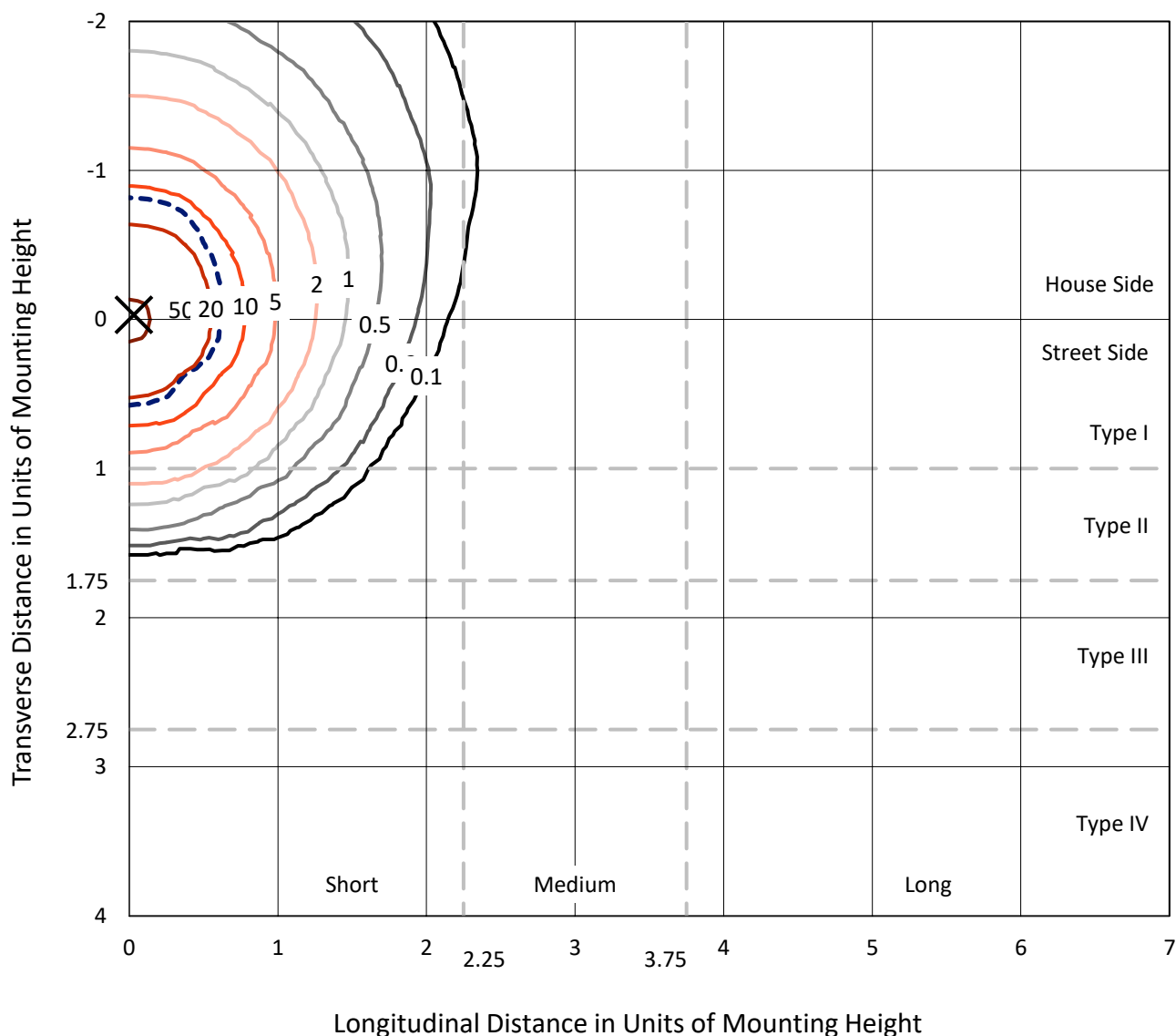
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

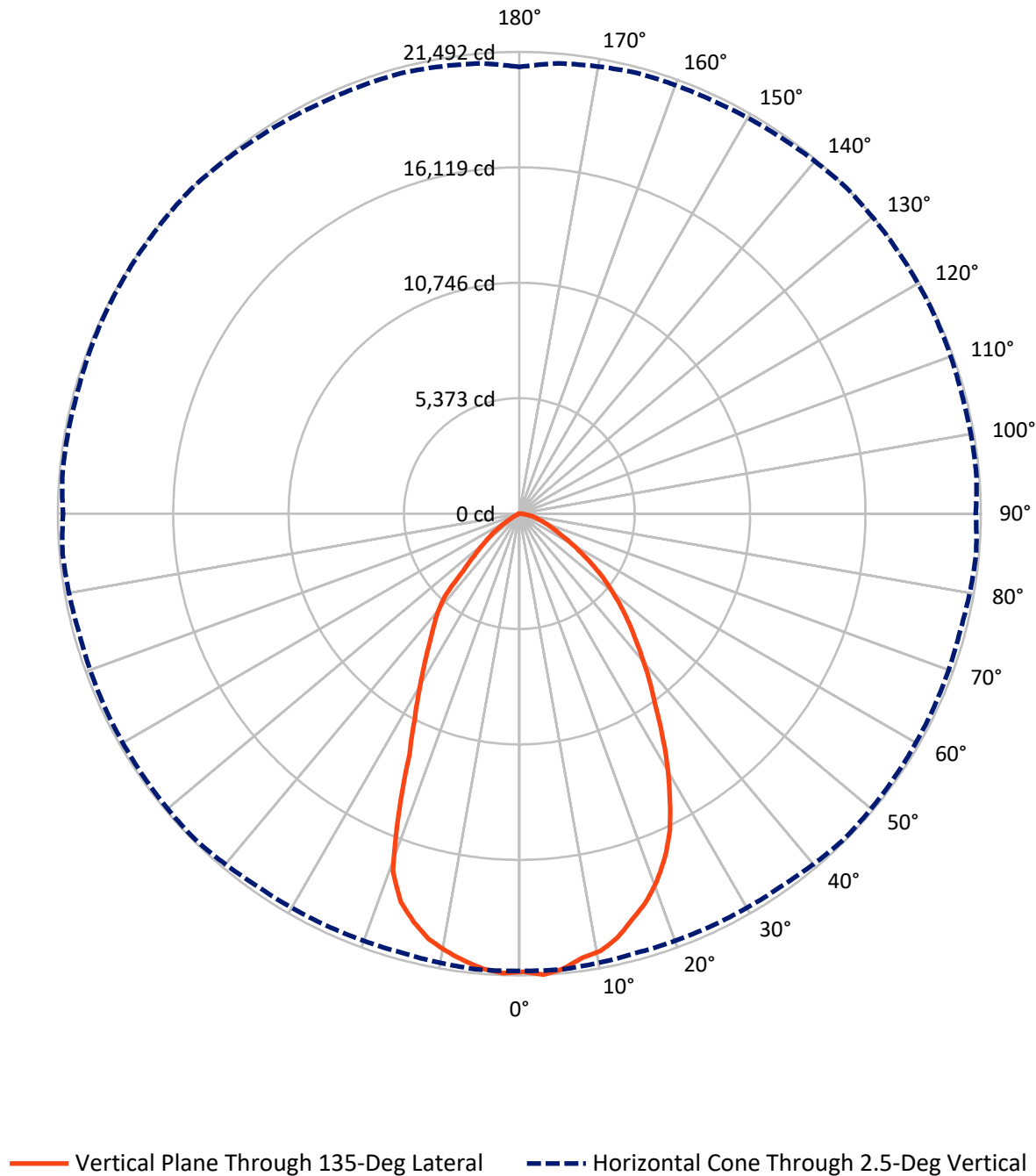


Based on 20 foot mounting height. Maximum calculated value = 53.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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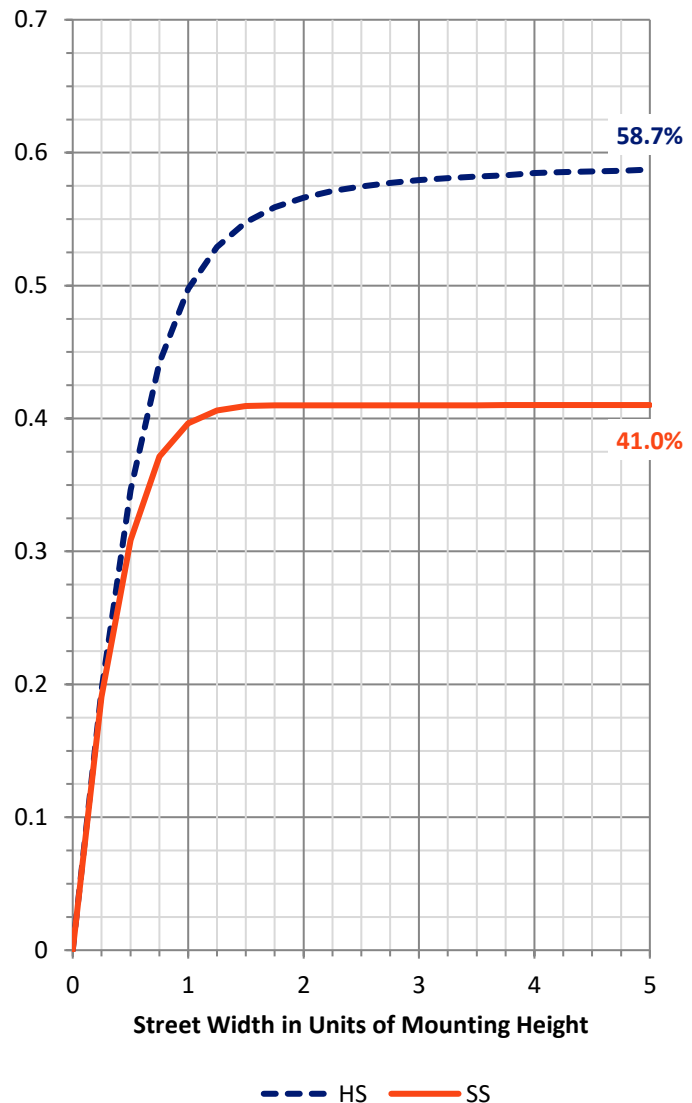
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16594.6	0.0	16594.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11424.9	0.0	11424.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	28019.5	0.0	28019.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1999.7	7.1
10°-20°	5362.4	19.1
20°-30°	6539.8	23.3
30°-40°	5970.7	21.3
40°-50°	4314.9	15.4
50°-60°	2356.0	8.4
60°-70°	974.1	3.5
70°-80°	394.5	1.4
80°-90°	107.3	0.4
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°	28019.5	100.0
0°-180°	28019.5	100.0

Coefficient of Utilization



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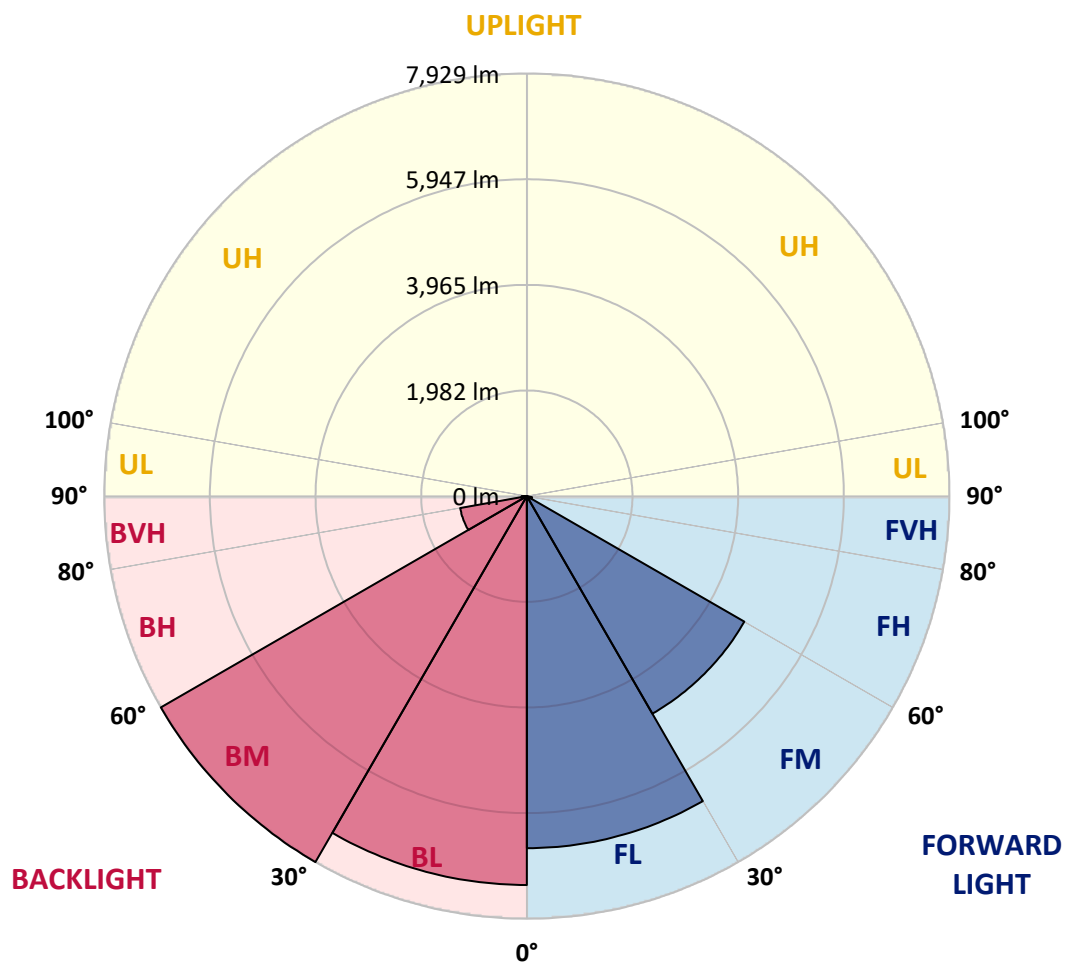
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6605.2	23.6			
FM	(30°-60°)	4712.4	16.8			
FH	(60°-80°)	98.7	0.4			G0/660
FVH	(80°-90°)	8.6	0.0			G0/10
BL	(0°-30°)	7296.7	26.0	B5		
BM	(30°-60°)	7929.3	28.3	B4/8500		
BH	(60°-80°)	1269.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	98.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8
2.5°	21283.3	21310.9	21161.0	21176.8	21204.4	21405.6	21354.3	21307.0	21239.9	21354.3
5°	21255.7	21271.5	21113.7	21058.4	21082.1	21263.6	21097.9	21097.9	21082.1	21062.4
7.5°	21042.6	21050.5	20928.2	20829.6	20892.7	20975.6	20853.2	20912.4	20825.6	20892.7
10°	20723.0	20671.7	20525.7	20498.1	20569.1	20648.1	20565.2	20620.4	20541.5	20592.8
12.5°	20253.5	20174.6	20056.2	20020.7	20143.0	20249.5	20182.5	20150.9	20048.3	20174.6
15°	18442.4	18383.2	18651.5	19121.1	19543.3	19634.0	19563.0	19594.5	19381.5	19417.0
17.5°	15179.3	15068.8	15356.8	16469.5	18055.7	18892.2	18829.1	18623.9	18308.2	18379.3
20°	13794.3	13762.7	13731.2	13995.5	15104.3	17641.4	17728.2	17207.4	16757.6	16658.9
22.5°	13013.1	13001.2	12969.6	13028.8	13320.8	14950.4	15944.7	15463.4	15163.5	15135.9
25°	12298.9	12279.1	12184.4	12259.4	12259.4	12354.1	13628.6	13920.6	13656.2	13624.6
27.5°	11572.9	11537.3	11521.6	11557.1	11375.6	10736.4	11059.9	12484.3	12346.2	12354.1
30°	10787.7	10775.8	10732.4	10807.4	10247.1	9454.0	9248.8	11182.2	11209.8	11202.0
32.5°	9619.7	9671.0	9868.3	9951.2	9027.9	8372.9	8029.6	9675.0	10239.2	10227.4
35°	6987.9	6987.9	7631.1	8826.6	7911.2	7418.0	7232.5	8203.2	9280.4	9319.8
37.5°	5745.0	5764.7	5891.0	6435.5	6826.1	6652.5	6597.3	6905.0	8049.3	8112.4
40°	5168.9	5168.9	5168.9	4944.0	4932.2	5993.6	5962.0	5863.4	6952.4	7090.5
42.5°	4644.1	4656.0	4663.9	4095.7	3780.0	5180.8	5109.7	4959.8	5969.9	6131.7
45°	4103.6	4123.3	4147.0	3424.9	3286.8	3728.7	4324.5	4158.8	4999.3	5208.4
47.5°	2505.5	2537.1	3073.7	2904.1	2919.8	2876.4	3527.5	3499.9	4099.6	4395.6
50°	1692.7	1704.6	1755.9	1842.7	2505.5	2260.9	2497.7	2896.2	3113.2	3563.0
52.5°	1420.5	1440.2	1313.9	1195.6	1645.4	1767.7	1744.0	2150.4	2237.2	2793.6
55°	998.3	1061.4	1002.2	990.4	935.1	1373.1	1321.8	1653.3	1708.5	2122.8
57.5°	102.6	118.4	205.2	737.9	611.6	777.3	943.0	1211.3	1266.6	1566.5
60°	7.9	7.9	19.7	102.6	445.9	465.6	651.0	745.7	852.3	1093.0
62.5°	0.0	3.9	7.9	15.8	71.0	248.6	327.5	390.6	512.9	706.3
65°	0.0	0.0	3.9	11.8	15.8	94.7	126.3	205.2	280.1	438.0
67.5°	0.0	0.0	3.9	7.9	11.8	23.7	43.4	75.0	149.9	248.6
70°	0.0	0.0	3.9	7.9	11.8	19.7	31.6	47.3	67.1	134.2
72.5°	0.0	0.0	3.9	3.9	7.9	19.7	23.7	31.6	47.3	67.1
75°	0.0	0.0	3.9	3.9	11.8	23.7	19.7	23.7	31.6	43.4
77.5°	0.0	0.0	3.9	7.9	11.8	23.7	19.7	23.7	23.7	27.6
80°	0.0	0.0	3.9	7.9	15.8	27.6	23.7	23.7	19.7	19.7
82.5°	0.0	0.0	3.9	11.8	15.8	35.5	35.5	31.6	15.8	11.8
85°	0.0	0.0	7.9	15.8	23.7	39.5	39.5	31.6	11.8	7.9
87.5°	0.0	0.0	7.9	11.8	19.7	27.6	39.5	31.6	11.8	3.9
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°
21322.8	0°	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8	21322.8
21255.7	2.5°	21362.2	21338.6	21417.5	21449.0	21492.4	21326.7	21224.1	21228.1	21038.7
21015.0	5°	21141.3	21145.2	21247.8	21239.9	21283.3	21192.6	21153.1	21086.0	20920.3
20711.2	7.5°	20861.1	20825.6	20924.3	20999.2	20888.7	20951.9	20861.1	20892.7	20794.1
20442.9	10°	20644.1	20561.3	20652.0	20703.3	20707.2	20644.1	20557.3	20474.4	20438.9
20024.6	12.5°	20162.7	20056.2	20210.1	20281.1	20269.3	20146.9	20048.3	20068.0	19953.6
19290.7	15°	19499.8	19503.8	19614.3	19681.4	19618.2	19590.6	19598.5	19551.1	19452.5
18276.7	17.5°	18485.8	18545.0	18837.0	18998.7	19034.3	18979.0	18951.4	18896.1	18797.5
16658.9	20°	16797.0	17152.1	17673.0	18174.1	18272.7	18256.9	18158.3	18134.6	18079.4
15056.9	22.5°	15313.4	15577.8	16181.5	16962.7	17365.2	17404.7	17286.3	17250.8	17191.6
13624.6	25°	13778.5	14062.6	14607.1	15455.5	16288.0	16457.7	16438.0	16331.4	16268.3
12354.1	27.5°	12484.3	12768.4	13261.6	14027.1	14918.8	15463.4	15514.6	15345.0	15341.0
11221.7	30°	11316.4	11707.0	12081.9	12705.3	13569.4	14386.2	14473.0	14354.6	14366.4
10184.0	32.5°	10401.0	10724.5	11044.1	11462.4	12180.5	13131.4	13470.8	13360.3	13316.9
9319.8	35°	9465.8	9686.8	10014.3	10397.0	10886.3	11829.3	12417.2	12334.4	12291.0
8151.9	37.5°	8400.5	8779.3	9016.0	9446.1	9828.8	10578.5	11407.1	11395.3	11304.5
7157.6	40°	7307.5	7706.0	8065.1	8499.1	8795.1	9390.9	10310.2	10306.3	10318.1
6127.7	42.5°	6317.1	6684.1	7118.1	7591.6	7875.7	8309.7	9296.2	9351.4	9418.5
5279.4	45°	5421.4	5752.9	6155.4	6731.4	7074.7	7323.3	8199.2	8451.8	8447.8
4521.8	47.5°	4616.5	4928.2	5267.6	5827.9	6265.8	6490.7	7216.8	7575.8	7552.1
3709.0	50°	3874.7	4150.9	4506.0	4912.4	5500.4	5697.6	6238.2	6711.7	6676.2
2955.4	52.5°	3117.1	3499.9	3799.7	4170.6	4790.1	4983.5	5401.7	5863.4	5835.7
2217.5	55°	2430.6	2801.5	3164.5	3484.1	4004.9	4293.0	4592.8	5066.3	5058.4
1736.1	57.5°	1838.7	2245.1	2588.4	2892.2	3306.5	3661.6	3902.3	4332.4	4387.7
1187.7	60°	1361.3	1673.0	2043.9	2383.2	2710.7	3077.7	3239.5	3661.6	3685.3
812.8	62.5°	927.2	1270.5	1633.5	1941.3	2185.9	2564.7	2710.7	3057.9	3101.4
520.8	65°	643.2	864.1	1278.4	1499.4	1799.3	2122.8	2268.8	2545.0	2631.8
299.9	67.5°	426.1	615.5	998.3	1199.5	1495.4	1716.4	1901.8	2126.8	2221.5
189.4	70°	232.8	453.8	714.2	947.0	1203.5	1416.5	1598.0	1779.5	1862.4
86.8	72.5°	157.8	303.8	497.2	749.7	970.7	1179.8	1341.6	1475.7	1479.7
51.3	75°	78.9	205.2	378.8	580.0	757.6	962.8	1108.8	1187.7	1093.0
31.6	77.5°	47.3	149.9	307.8	465.6	615.5	777.3	860.2	903.6	749.7
23.7	80°	27.6	106.5	240.7	370.9	426.1	572.1	651.0	662.9	501.1
15.8	82.5°	19.7	78.9	189.4	272.3	260.4	402.5	489.3	473.5	319.6
11.8	85°	11.8	55.2	118.4	169.7	157.8	264.4	284.1	292.0	185.4
7.9	87.5°	7.9	31.6	63.1	90.8	75.0	114.4	114.4	138.1	90.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
21322.8
20794.1
20880.9
20628.3
20281.1
19855.0
19353.9
18754.1
17953.1
17175.8
16201.2
15333.1
14307.3
13320.8
12231.8
11379.5
10318.1
9383.0
8455.7
7560.0
6707.8
5894.9
5078.2
4364.0
3720.8
3109.2
2612.1
2209.6
1830.8
1444.1
1021.9
722.1
469.5
295.9
169.7
78.9
0.0

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