

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: P637670

Luminaire Tested: **IFLD-S-SA3A-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637670
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13219.9 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 94.8
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



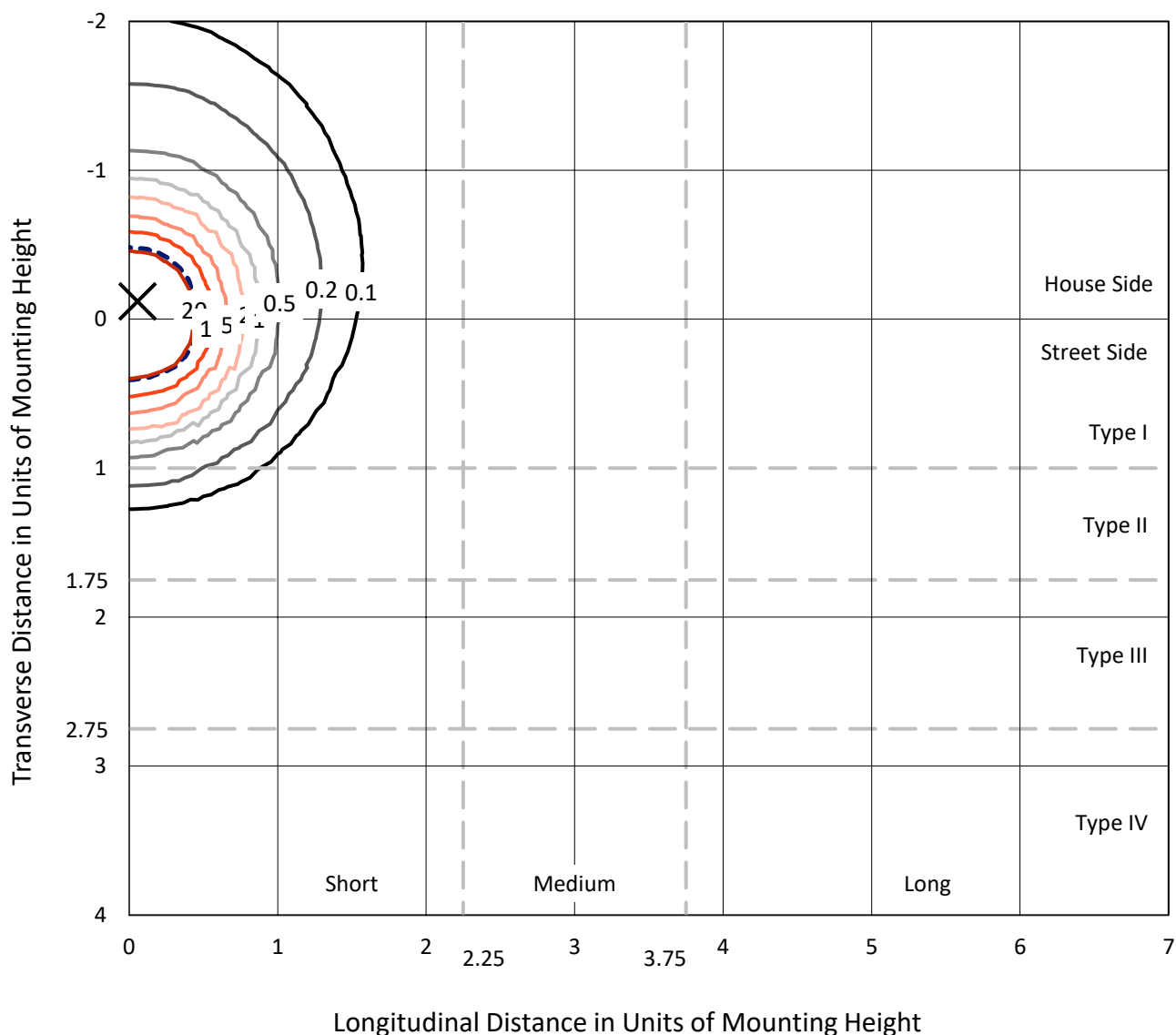
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



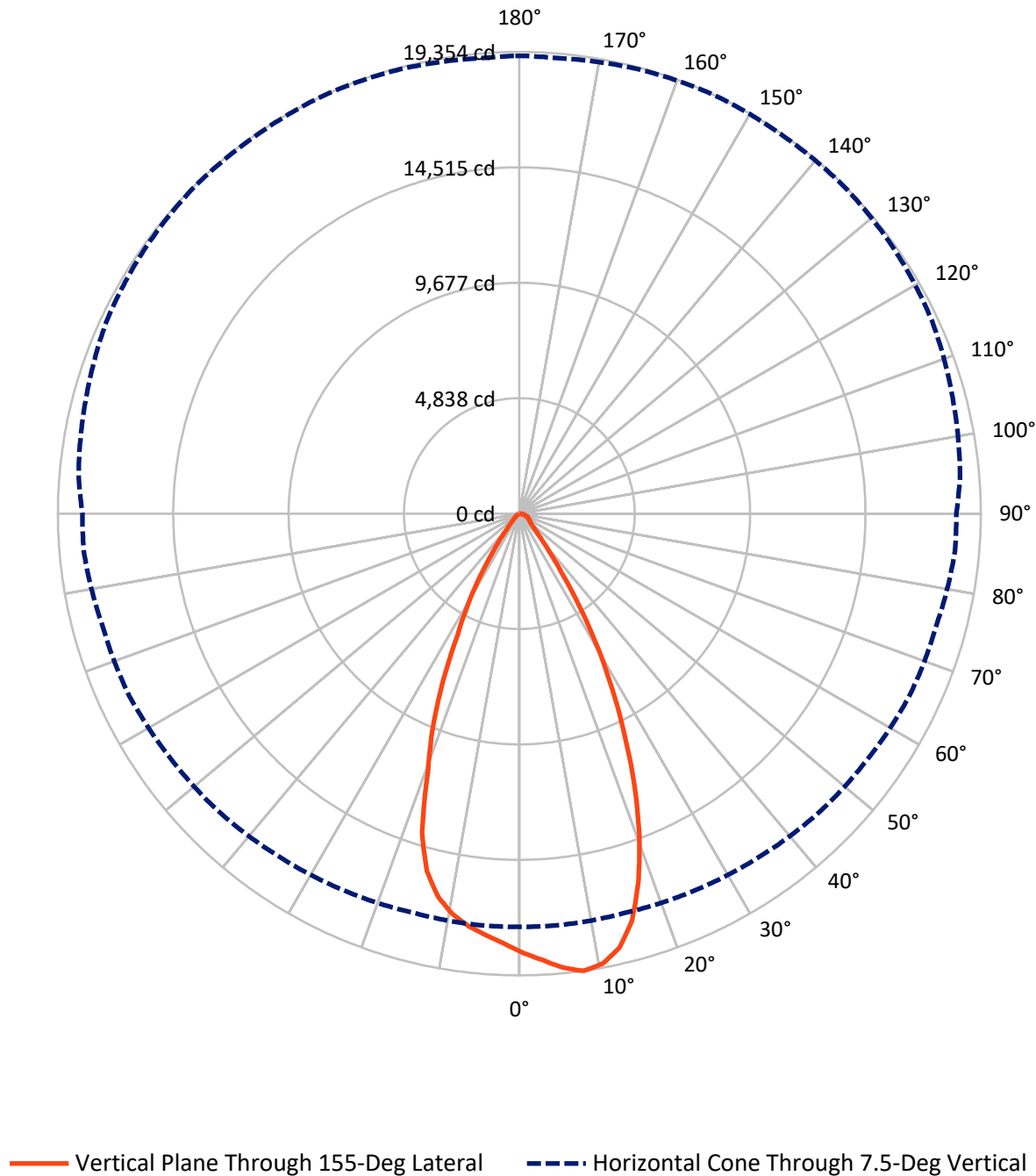
Based on 20 foot mounting height. Maximum calculated value = 46.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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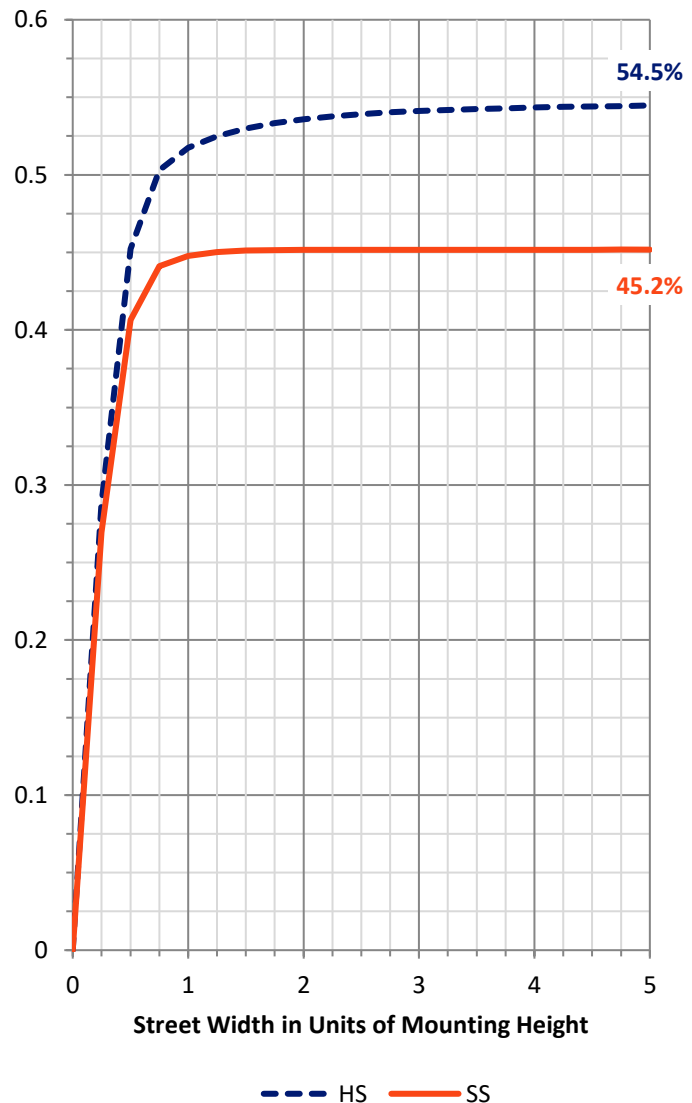
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7297.9	0.0	7297.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5922.0	0.0	5922.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	13219.9	0.0	13219.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1756.1	13.3
10°-20°	4553.6	34.4
20°-30°	4172.4	31.6
30°-40°	1685.6	12.8
40°-50°	494.5	3.7
50°-60°	276.5	2.1
60°-70°	167.9	1.3
70°-80°	85.3	0.6
80°-90°	27.9	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°	13219.9	100.0
0°-180°	13219.9	100.0

Coefficient of Utilization



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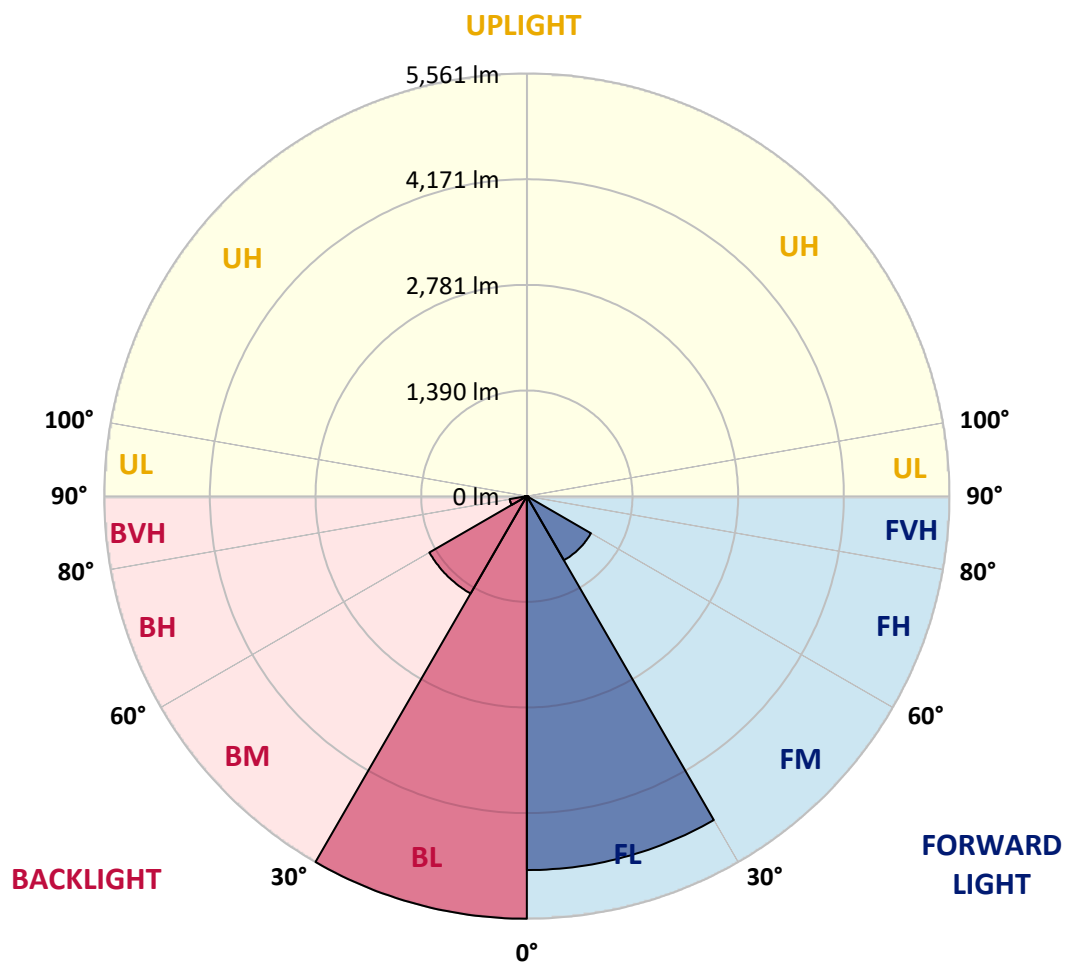
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4920.8	37.2			
FM	(30°-60°)	975.2	7.4			
FH	(60°-80°)	23.6	0.2			G0/660
FVH	(80°-90°)	2.4	0.0			G0/10
BL	(0°-30°)	5561.4	42.1	B5		
BM	(30°-60°)	1481.4	11.2	B2/2500		
BH	(60°-80°)	229.6	1.7	B1/500		G1/500
BVH	(80°-90°)	25.5	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°	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4
2.5°	18017.0	18077.9	17956.0	18036.8	18099.3	18248.7	18260.9	18312.7	18331.0	18466.7
5°	17675.5	17722.8	17623.7	17731.9	17820.3	17952.9	18055.1	18198.4	18277.6	18437.7
7.5°	17320.3	17331.0	17311.2	17425.5	17558.1	17741.0	17867.6	18055.1	18103.9	18332.5
10°	16890.4	16812.7	16850.8	17018.5	17216.7	17497.1	17584.0	17771.5	17858.4	18091.7
12.5°	16204.4	16244.1	16196.8	16410.2	16574.9	16893.5	16984.9	17174.0	17340.1	17545.9
15°	15238.0	15215.1	15311.1	15477.3	15655.7	15908.7	16056.6	16262.4	16388.9	16602.3
17.5°	13065.7	13143.4	13539.8	13955.9	14321.8	14617.5	14794.4	14965.1	15056.6	15288.3
20°	11283.7	11186.1	11239.5	11474.2	12515.4	12968.1	13154.1	13195.3	13233.4	13416.3
22.5°	9291.3	9259.2	9437.6	9701.3	9948.3	10992.5	11245.6	11149.5	11228.8	11401.0
25°	6899.5	7061.1	7219.6	7725.7	8045.8	8558.0	9038.2	9080.9	9109.9	9218.1
27.5°	5615.9	5559.5	5556.5	5698.2	6170.8	6597.6	7006.2	7100.7	7083.9	7187.6
30°	4414.7	4396.4	4332.4	4365.9	4318.6	4698.2	4890.3	5279.0	5257.7	5260.7
32.5°	3184.5	3115.9	3090.0	3140.3	3091.5	3056.4	3224.1	3663.2	3655.5	3686.0
35°	1926.9	1917.7	1939.0	1983.3	1885.7	1882.6	1917.7	2330.8	2381.1	2429.9
37.5°	1064.0	1054.9	1071.7	1234.8	1202.8	1173.8	1182.9	1400.9	1545.7	1582.3
40°	701.2	699.7	711.9	740.9	795.7	785.1	789.6	887.2	1024.4	1056.4
42.5°	469.5	471.0	478.7	512.2	519.8	574.7	565.6	588.4	716.5	743.9
45°	375.0	373.5	378.1	362.8	372.0	428.4	434.5	436.0	545.7	562.5
47.5°	295.7	295.7	300.3	280.5	275.9	311.0	343.0	347.6	436.0	458.8
50°	207.3	207.3	230.2	221.0	231.7	242.4	277.4	282.0	356.7	381.1
52.5°	152.4	155.5	158.5	160.1	195.1	193.6	224.1	245.4	269.8	312.5
55°	115.9	118.9	111.3	118.9	144.8	161.6	167.7	198.2	214.9	262.2
57.5°	76.2	83.8	77.7	91.5	97.6	125.0	134.1	163.1	173.8	214.9
60°	10.7	12.2	19.8	64.0	68.6	82.3	103.7	129.6	140.2	175.3
62.5°	1.5	1.5	4.6	10.7	45.7	54.9	77.7	89.9	103.7	131.1
65°	0.0	0.0	1.5	3.0	9.1	32.0	39.6	48.8	71.6	94.5
67.5°	0.0	0.0	1.5	3.0	4.6	10.7	16.8	32.0	41.2	65.5
70°	0.0	0.0	1.5	3.0	4.6	6.1	9.1	12.2	24.4	38.1
72.5°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	9.1	10.7	24.4
75°	0.0	0.0	1.5	3.0	4.6	7.6	9.1	9.1	9.1	10.7
77.5°	0.0	0.0	1.5	3.0	6.1	9.1	10.7	9.1	7.6	7.6
80°	0.0	0.0	1.5	4.6	7.6	10.7	12.2	9.1	6.1	4.6
82.5°	0.0	0.0	1.5	4.6	7.6	10.7	12.2	10.7	6.1	4.6
85°	0.0	0.0	1.5	4.6	6.1	7.6	12.2	10.7	6.1	3.0
87.5°	0.0	0.0	0.0	1.5	1.5	3.0	6.1	4.6	3.0	1.5
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°
18416.4	0°	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4	18416.4
18463.6	2.5°	18600.8	18669.4	18789.8	18823.4	18927.0	18808.1	18742.6	18748.7	18606.9
18417.9	5°	18600.8	18757.8	18968.2	19068.8	19145.0	19138.9	19122.2	19079.5	18975.8
18326.4	7.5°	18552.0	18808.1	19097.8	19231.9	19323.4	19315.8	19353.9	19285.3	19158.7
18163.3	10°	18395.0	18617.6	18974.3	19084.1	19231.9	19235.0	19187.7	19201.4	18975.8
17567.3	12.5°	17901.1	18074.9	18387.4	18512.4	18692.3	18721.2	18669.4	18649.6	18436.2
16590.1	15°	16945.3	17045.9	17359.9	17484.9	17663.3	17638.9	17690.7	17669.4	17481.9
15270.0	17.5°	15547.4	15579.4	15908.7	16013.9	16181.6	16247.1	16169.4	16268.5	16106.9
13448.3	20°	13542.8	13715.1	14085.5	14247.1	14344.7	14462.1	14359.9	14471.2	14282.2
11237.9	22.5°	11509.3	11611.4	11946.8	12180.0	12361.4	12384.3	12346.2	12423.9	12169.3
9289.7	25°	9288.2	9457.4	9722.7	10027.5	10205.9	10315.7	10216.6	10266.9	10225.7
7204.3	27.5°	7326.3	7477.2	7676.9	7904.1	8172.3	8315.6	8236.4	8321.7	8120.5
5372.0	30°	5376.6	5452.8	5678.4	5919.3	6213.5	6387.3	6394.9	6481.8	6362.9
3763.8	32.5°	3791.2	3858.3	3997.0	4157.1	4437.5	4631.1	4600.7	4612.9	4539.7
2452.8	35°	2465.0	2554.9	2654.0	2730.2	2899.4	3112.8	3096.1	3080.8	3030.5
1612.8	37.5°	1647.9	1682.9	1737.8	1806.4	1916.2	2050.3	2094.5	2039.7	2018.3
1088.4	40°	1114.3	1175.3	1211.9	1263.7	1315.6	1428.4	1458.9	1448.2	1426.8
762.2	42.5°	791.2	838.4	884.2	934.5	961.9	1032.0	1091.5	1074.7	1065.6
579.3	45°	600.6	643.3	696.7	734.8	762.2	803.4	859.8	865.9	852.1
464.9	47.5°	481.7	519.8	562.5	609.8	641.8	667.7	716.5	734.8	725.6
391.8	50°	408.5	437.5	478.7	525.9	561.0	583.8	626.5	646.3	640.3
327.7	52.5°	347.6	382.6	420.7	460.4	503.1	525.9	565.6	594.5	589.9
271.3	55°	288.1	333.8	373.5	413.1	461.9	484.8	519.8	557.9	550.3
230.2	57.5°	251.5	289.6	330.8	368.9	420.7	451.2	483.2	522.9	521.3
189.0	60°	210.4	248.5	294.2	326.2	381.1	423.8	452.7	493.9	497.0
143.3	62.5°	167.7	214.9	250.0	294.2	344.5	394.8	422.3	463.4	478.7
109.8	65°	125.0	176.8	216.5	260.7	307.9	364.3	388.7	429.9	445.1
79.3	67.5°	93.0	132.6	182.9	221.0	274.4	323.2	352.1	390.2	400.9
47.3	70°	70.1	102.1	152.4	186.0	240.9	280.5	309.5	338.4	352.1
32.0	72.5°	41.2	76.2	120.4	160.1	207.3	240.9	262.2	285.1	294.2
15.2	75°	29.0	57.9	94.5	132.6	167.7	195.1	214.9	234.8	243.9
7.6	77.5°	15.2	42.7	74.7	106.7	131.1	154.0	173.8	189.0	195.1
6.1	80°	9.1	30.5	61.0	83.8	100.6	120.4	140.2	150.9	149.4
4.6	82.5°	6.1	24.4	44.2	61.0	73.2	88.4	102.1	109.8	109.8
3.0	85°	4.6	16.8	30.5	47.3	48.8	61.0	64.0	71.6	73.2
3.0	87.5°	3.0	10.7	16.8	27.4	25.9	32.0	33.5	38.1	41.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
18416.4
18492.6
19009.4
19187.7
18910.3
18387.4
17541.4
16067.3
14266.9
12134.3
10199.8
8172.3
6384.2
4580.8
2986.3
2013.7
1429.9
1057.9
850.6
721.0
638.7
586.9
550.3
519.8
497.0
477.1
443.6
400.9
349.1
291.2
240.9
193.6
147.9
108.2
71.6
39.6
0.0

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