

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: P637286

Luminaire Tested: **IFLD-L-SA8C-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637286
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35993.6 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

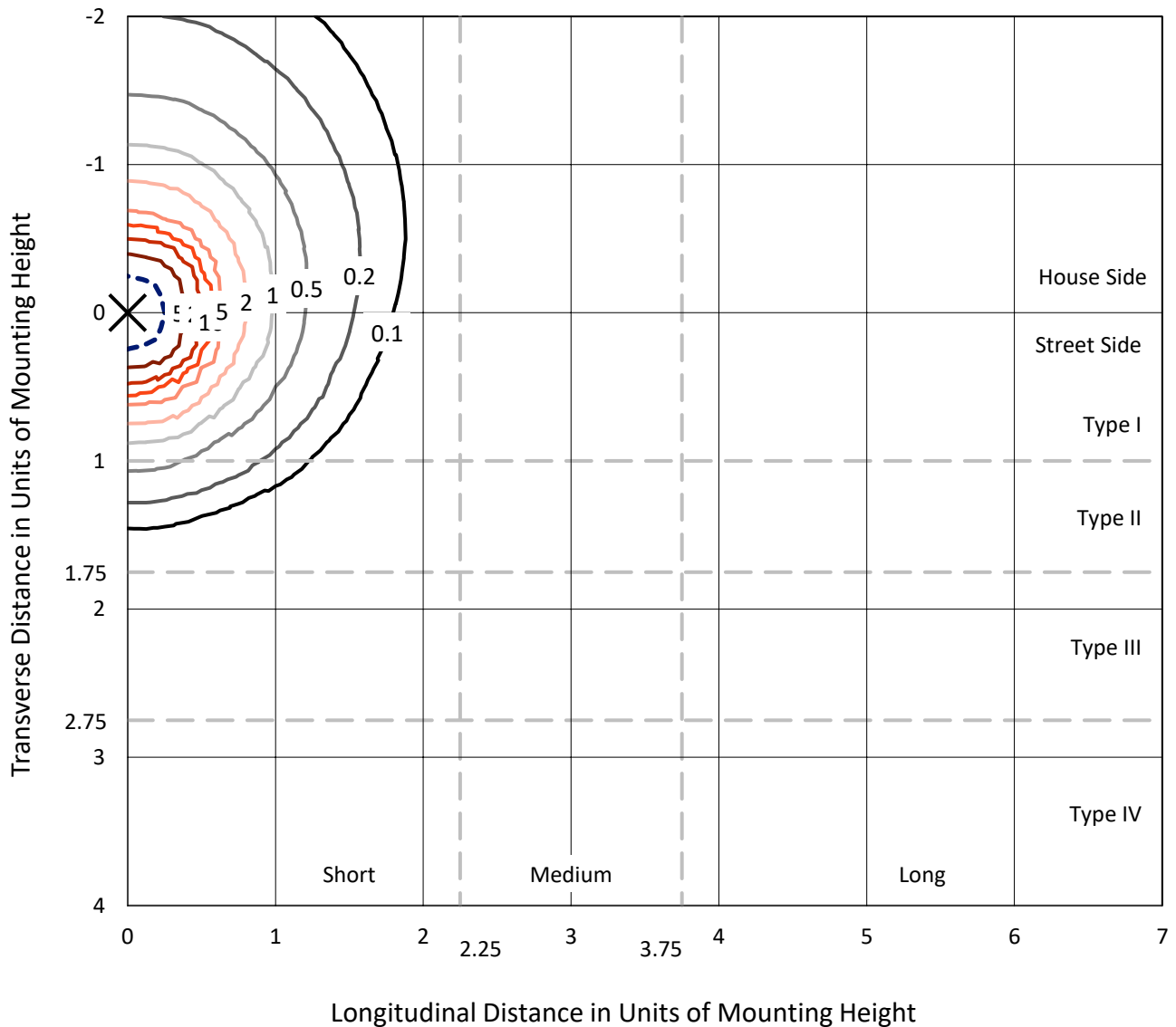
Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

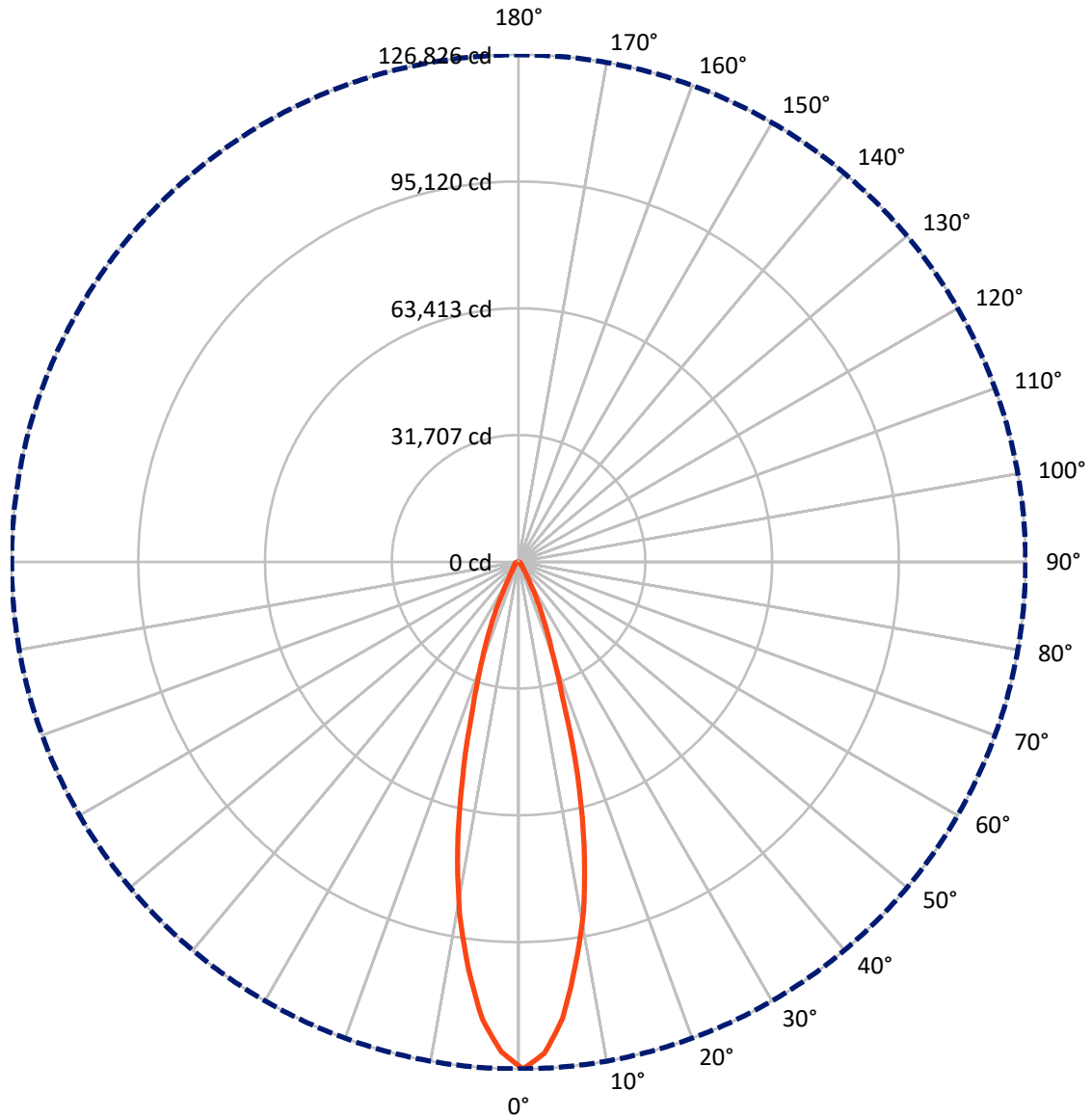
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 317.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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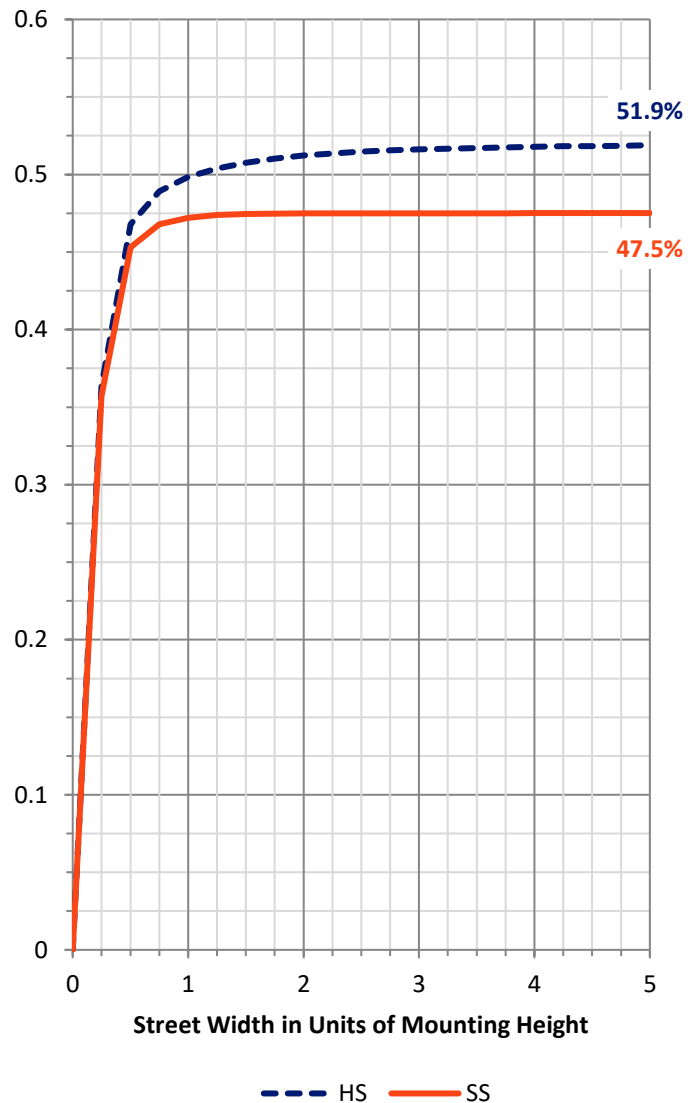
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18978.3	0.0	18978.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	17015.3	0.0	17015.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	35993.6	0.0	35993.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10236.0	28.4
10°-20°	15502.3	43.1
20°-30°	6542.1	18.2
30°-40°	1706.2	4.7
40°-50°	863.0	2.4
50°-60°	564.1	1.6
60°-70°	338.0	0.9
70°-80°	177.8	0.5
80°-90°	64.2	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°	35993.6	100.0
0°-180°	35993.6	100.0

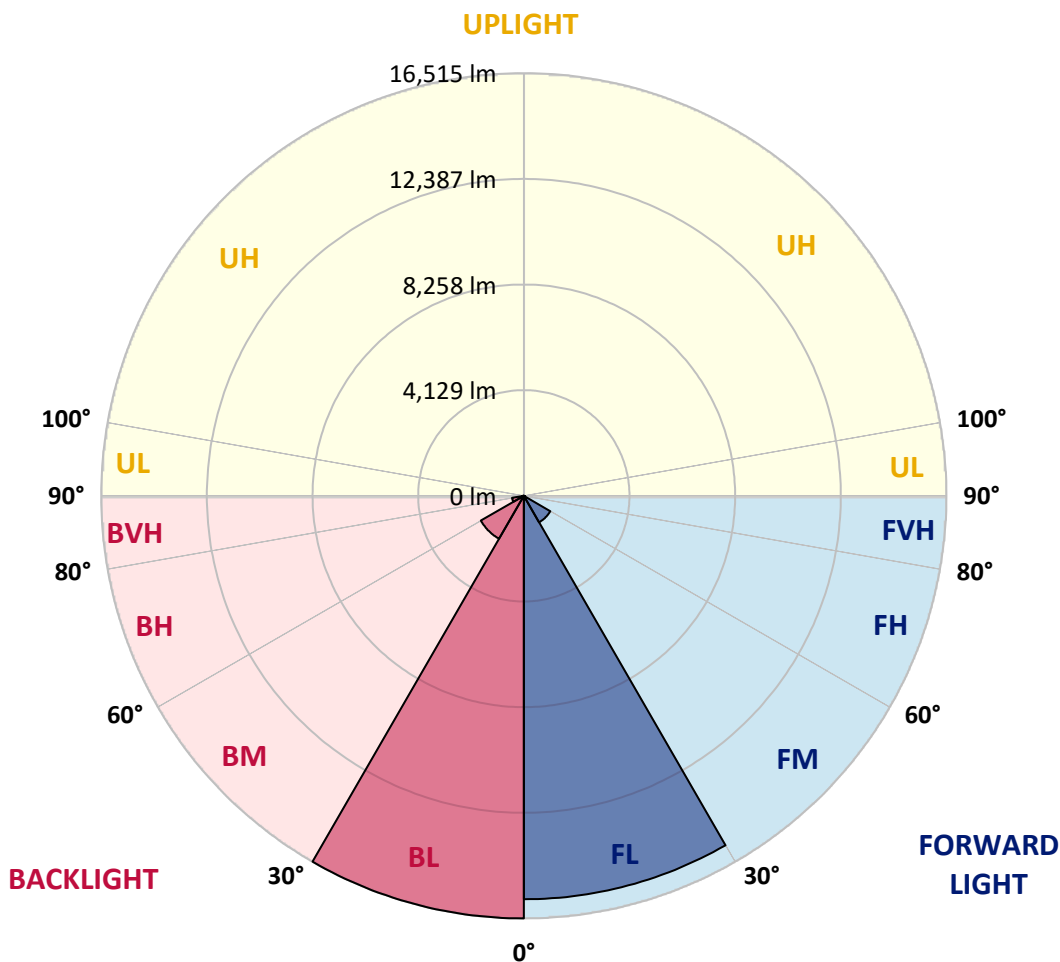


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15765.0	43.8			
FM (30°-60°)	1193.9	3.3			
FH (60°-80°)	48.7	0.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	16515.4	45.9	B5		
BM (30°-60°)	1939.4	5.4	B2/2500		
BH (60°-80°)	467.1	1.3	B1/500		G0/660
BVH (80°-90°)	56.4	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0
2.5°	123131.4	123200.2	122945.5	123495.2	123066.8	124214.7	123644.8	124534.1	124235.0	124732.1
5°	114723.8	114610.6	114537.9	115390.8	115144.2	116377.0	115588.8	115330.1	116130.5	115985.0
7.5°	102027.5	102326.6	102156.8	102379.1	102504.4	103911.1	104355.7	104008.1	104020.2	104222.4
10°	89011.8	88571.2	87944.7	88361.0	89242.2	89856.6	89610.0	90119.4	90006.2	90487.2
12.5°	72996.9	73344.5	72992.8	72621.0	74161.0	73991.2	74419.7	74698.6	73999.3	75555.5
15°	54985.1	55167.0	55595.5	55567.2	56751.5	56990.0	56933.4	57228.5	56682.8	56941.5
17.5°	35324.2	35938.6	37090.6	39038.9	41229.8	41484.4	41419.7	41177.2	40914.5	40623.4
20°	23727.3	23662.6	24079.0	24648.9	29184.2	30384.7	30348.3	29588.4	28489.0	28278.8
22.5°	16621.3	16742.5	16685.9	17251.8	18189.6	21500.1	21091.8	20319.8	19960.1	19725.6
25°	10934.0	10889.5	11172.5	11342.2	12146.6	12550.8	13981.7	13694.7	13141.0	13201.6
27.5°	6665.5	6722.1	6827.2	6972.7	7542.6	7413.3	8229.8	8338.9	8161.1	7971.1
30°	4090.6	4131.1	4215.9	4321.0	4519.1	4377.6	4604.0	4996.1	4931.4	4798.0
32.5°	2776.9	2781.0	2841.6	2882.0	2857.8	2724.4	2797.2	3169.0	3177.1	3165.0
35°	1996.8	1996.8	2053.4	2085.7	2017.0	1907.9	1920.0	2150.4	2251.5	2271.7
37.5°	1378.4	1382.4	1479.4	1576.4	1499.6	1471.3	1422.8	1576.4	1738.1	1762.4
40°	1046.9	1042.9	1091.4	1164.1	1172.2	1119.7	1135.8	1232.9	1398.6	1418.8
42.5°	848.8	852.9	877.1	869.1	873.1	941.8	966.1	1010.5	1164.1	1200.5
45°	715.5	719.5	731.6	691.2	675.0	780.1	812.5	836.7	966.1	1010.5
47.5°	590.2	598.2	610.4	565.9	557.8	626.5	683.1	707.4	820.6	869.1
50°	424.4	432.5	477.0	452.7	477.0	493.1	569.9	606.3	683.1	747.8
52.5°	307.2	315.3	327.4	331.5	392.1	400.2	456.8	513.4	549.7	622.5
55°	242.5	250.6	242.5	234.4	287.0	331.5	351.7	412.3	440.6	525.5
57.5°	137.4	145.5	157.6	181.9	190.0	254.7	274.9	327.4	351.7	432.5
60°	24.3	28.3	44.5	109.1	133.4	161.7	206.1	250.6	282.9	339.5
62.5°	4.0	4.0	8.1	24.3	76.8	113.2	149.6	177.9	206.1	258.7
65°	0.0	0.0	4.0	8.1	20.2	64.7	80.8	105.1	141.5	185.9
67.5°	0.0	0.0	4.0	8.1	12.1	24.3	36.4	64.7	80.8	125.3
70°	0.0	0.0	4.0	8.1	12.1	16.2	20.2	28.3	48.5	76.8
72.5°	0.0	0.0	4.0	8.1	12.1	16.2	20.2	24.3	24.3	48.5
75°	0.0	0.0	4.0	8.1	12.1	20.2	24.3	24.3	20.2	20.2
77.5°	0.0	0.0	4.0	8.1	16.2	24.3	28.3	24.3	16.2	16.2
80°	0.0	0.0	8.1	12.1	20.2	28.3	36.4	28.3	16.2	8.1
82.5°	0.0	0.0	8.1	16.2	20.2	32.3	44.5	36.4	16.2	8.1
85°	0.0	0.0	4.0	12.1	24.3	32.3	44.5	32.3	16.2	4.0
87.5°	0.0	0.0	4.0	4.0	8.1	12.1	24.3	20.2	8.1	4.0
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°
126826.0	0°	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0	126826.0
123790.3	2.5°	124501.7	125148.5	125281.9	125104.0	125362.7	124897.9	124542.2	123620.5	123066.8
115940.5	5°	116688.3	116591.3	117266.3	117488.6	117460.3	117104.6	116607.4	116049.6	115508.0
103830.3	7.5°	104477.0	104602.3	105216.7	105608.8	105410.7	104966.1	104622.5	104202.1	103838.3
90661.0	10°	91489.6	90628.7	91392.6	91392.6	91922.1	90665.0	90782.3	89723.2	89771.7
75527.3	12.5°	75785.9	76097.2	76222.5	76582.2	75963.8	75296.8	74480.3	74318.7	73813.4
56448.4	15°	57260.9	58150.1	57386.2	58691.8	58061.2	57365.9	57240.6	55987.6	56383.7
40942.8	17.5°	40740.7	41722.9	42030.1	42777.9	42203.9	41791.6	41270.2	40890.2	40861.9
28662.8	20°	28889.1	29875.4	30101.8	30999.1	30934.4	30805.1	30364.5	29883.5	29362.1
19511.4	22.5°	19806.5	20610.8	21362.7	22571.3	22551.1	22171.1	22126.6	21447.6	21459.7
13181.4	25°	13318.8	13904.9	14082.8	15319.7	15457.1	15416.7	15186.3	14555.7	14794.2
8051.9	27.5°	8060.0	8573.4	9175.6	9612.2	10024.5	9959.8	9729.4	9377.7	9224.1
4838.4	30°	4967.8	5198.2	5420.5	5946.0	6192.5	6321.9	6212.8	5885.3	5909.6
3185.2	32.5°	3253.9	3447.9	3609.6	3941.1	4070.4	4308.9	4264.5	4195.7	4114.9
2291.9	35°	2372.7	2514.2	2623.3	2776.9	2942.7	3144.8	3177.1	3148.8	3116.5
1770.5	37.5°	1810.9	1956.4	2081.7	2146.4	2275.7	2433.4	2522.3	2518.2	2494.0
1443.0	40°	1471.3	1580.5	1693.7	1778.5	1867.5	1984.7	2093.8	2106.0	2106.0
1212.6	42.5°	1228.8	1321.8	1435.0	1523.9	1588.6	1697.7	1810.9	1819.0	1810.9
1026.7	45°	1051.0	1131.8	1240.9	1346.0	1398.6	1479.4	1588.6	1612.8	1596.6
881.2	47.5°	913.5	986.3	1079.2	1192.4	1249.0	1321.8	1422.8	1451.1	1447.1
759.9	50°	784.2	869.1	962.0	1055.0	1127.8	1196.5	1293.5	1325.8	1313.7
646.7	52.5°	691.2	768.0	848.8	949.9	1034.8	1095.4	1172.2	1228.8	1212.6
545.7	55°	578.0	671.0	755.9	840.8	945.9	1010.5	1083.3	1152.0	1135.8
460.8	57.5°	501.2	578.0	675.0	751.8	856.9	933.7	1006.5	1079.2	1075.2
375.9	60°	420.4	501.2	594.2	675.0	772.0	856.9	929.7	1010.5	1018.6
282.9	62.5°	331.5	428.5	509.3	602.3	699.3	792.3	856.9	937.8	949.9
214.2	65°	250.6	351.7	440.6	529.5	626.5	727.6	784.2	852.9	865.0
157.6	67.5°	185.9	270.8	375.9	456.8	557.8	654.8	707.4	764.0	784.2
97.0	70°	141.5	206.1	315.3	392.1	497.2	574.0	630.6	679.1	695.2
64.7	72.5°	88.9	161.7	254.7	335.5	428.5	497.2	537.6	565.9	590.2
36.4	75°	60.6	125.3	206.1	287.0	355.7	408.3	444.6	468.9	489.1
16.2	77.5°	36.4	97.0	169.8	238.5	282.9	323.4	359.7	375.9	388.0
12.1	80°	20.2	72.8	141.5	194.0	222.3	250.6	278.9	299.1	307.2
8.1	82.5°	12.1	56.6	113.2	149.6	161.7	190.0	218.3	230.4	230.4
4.0	85°	8.1	40.4	76.8	109.1	117.2	137.4	145.5	153.6	161.7
4.0	87.5°	8.1	24.3	48.5	60.6	64.7	72.8	76.8	84.9	93.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
126826.0
122658.5
114901.7
102605.5
89298.8
73352.6
55987.6
40110.1
29135.7
21225.2
14418.3
9090.8
5804.5
4086.6
3104.4
2481.9
2081.7
1802.8
1596.6
1439.0
1305.6
1208.6
1143.9
1079.2
1022.7
958.0
877.1
792.3
703.3
586.1
485.1
384.0
299.1
226.4
157.6
88.9
0.0

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