

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: P638262

Luminaire Tested: **IFLD-M-SA4C-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638262
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16076.1 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

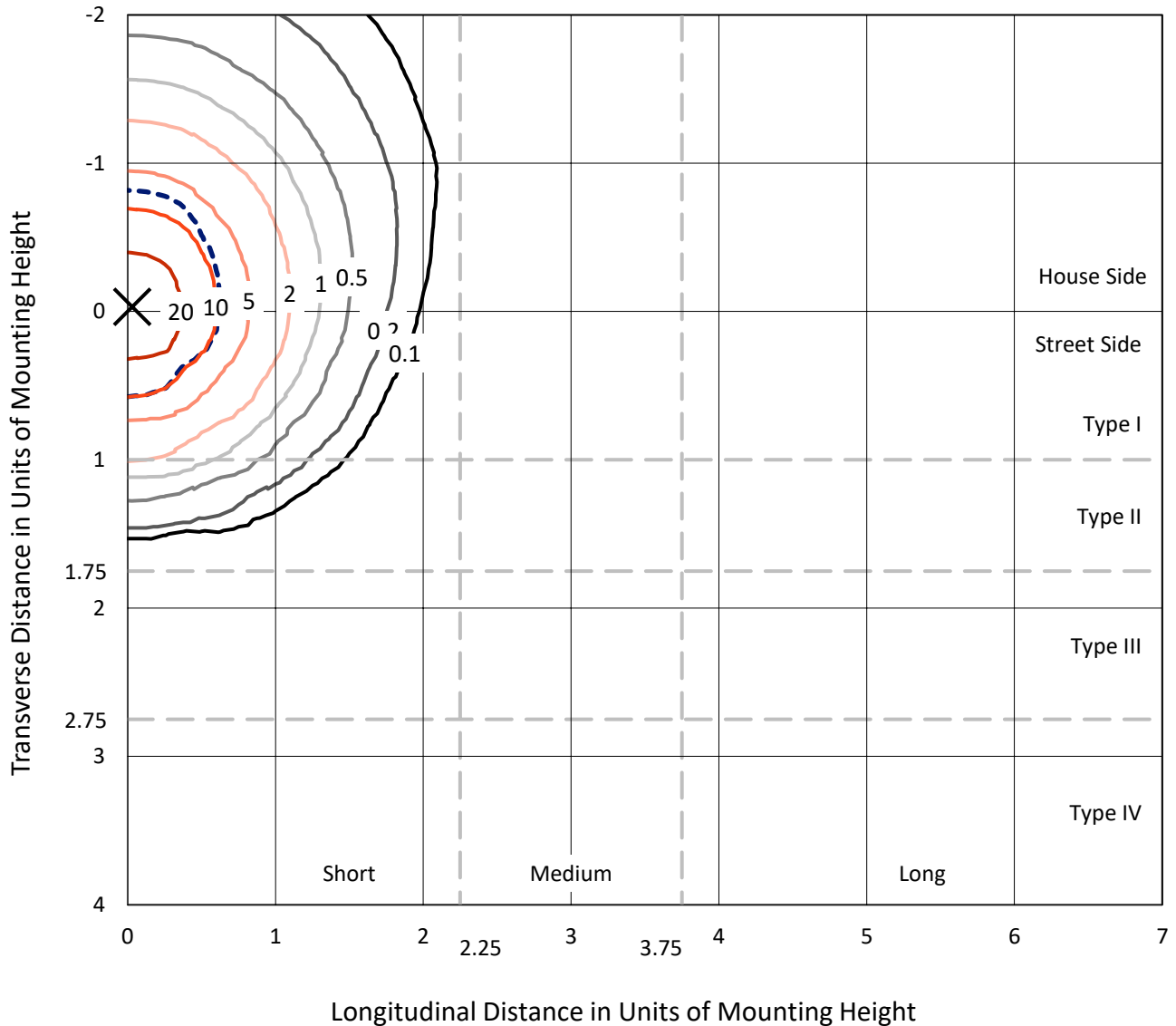
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

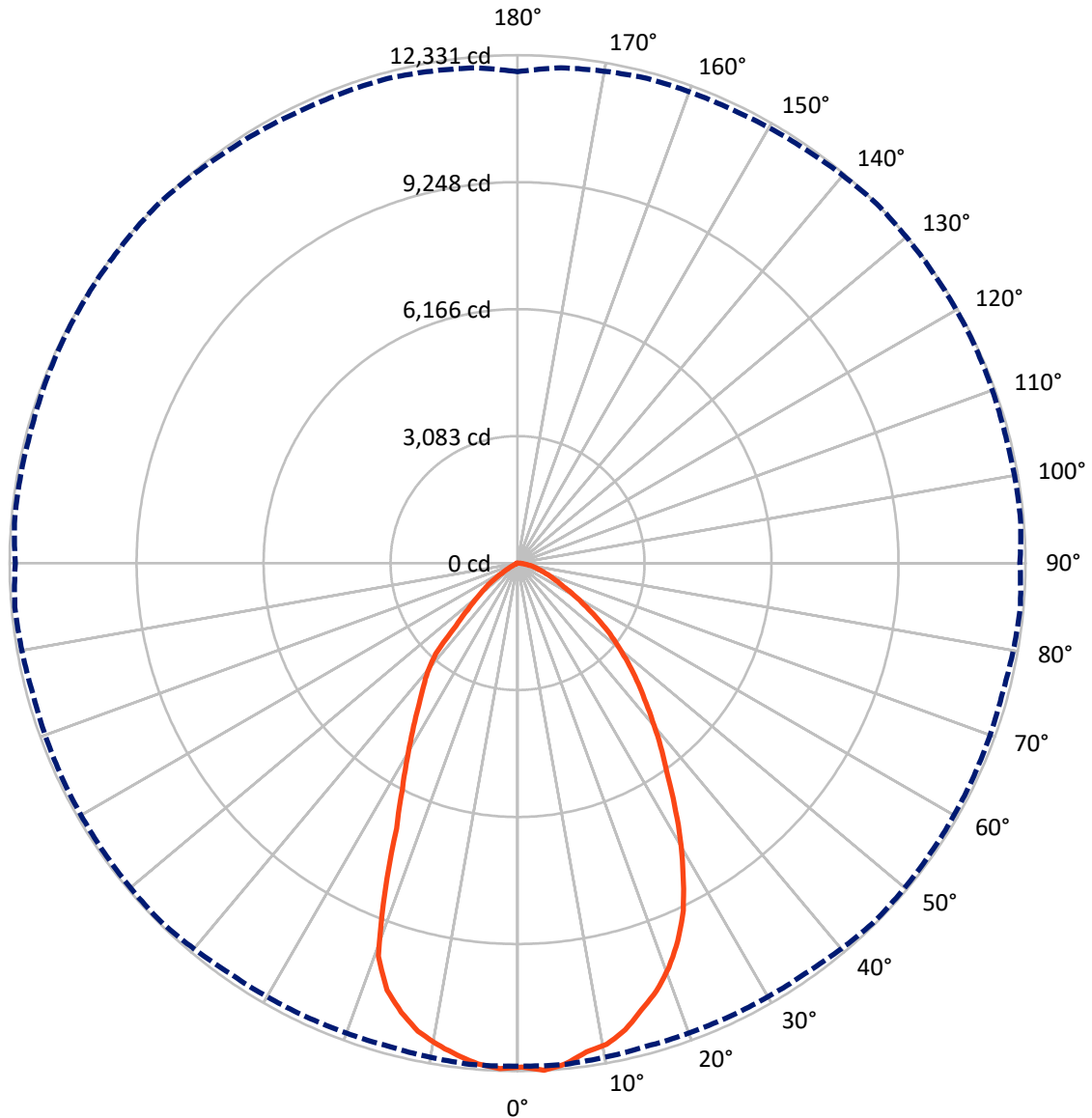
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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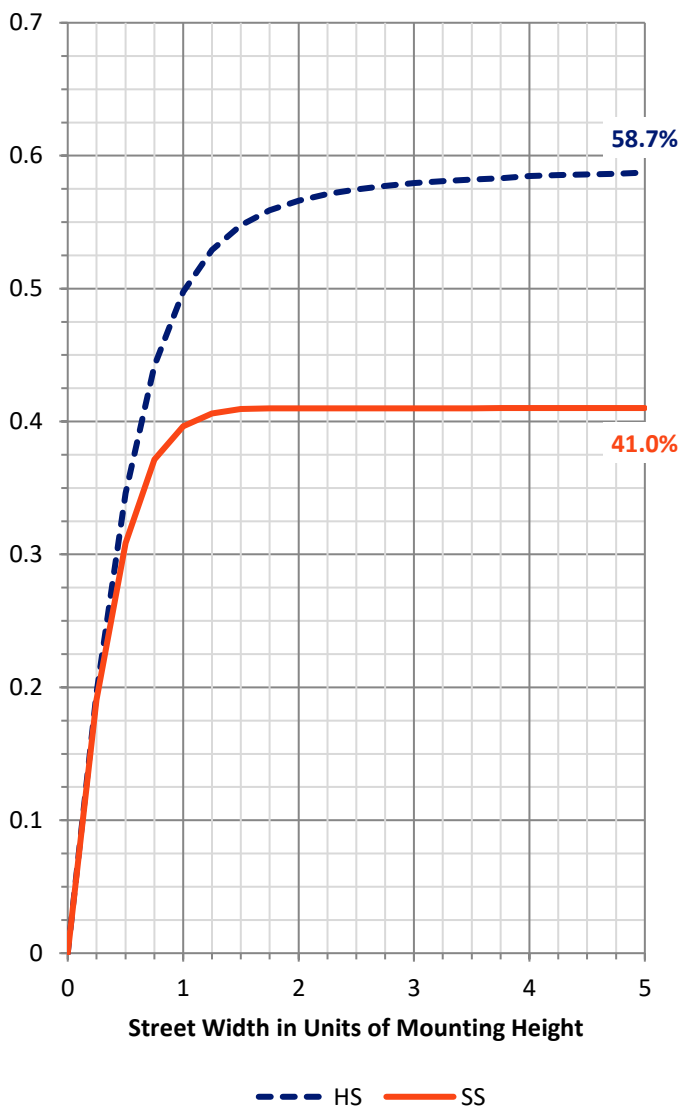
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9521.1	0.0	9521.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6555.0	0.0	6555.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	16076.1	0.0	16076.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1147.3	7.1
10°-20°	3076.7	19.1
20°-30°	3752.2	23.3
30°-40°	3425.7	21.3
40°-50°	2475.7	15.4
50°-60°	1351.7	8.4
60°-70°	558.9	3.5
70°-80°	226.4	1.4
80°-90°	61.6	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°	16076.1	100.0
0°-180°	16076.1	100.0



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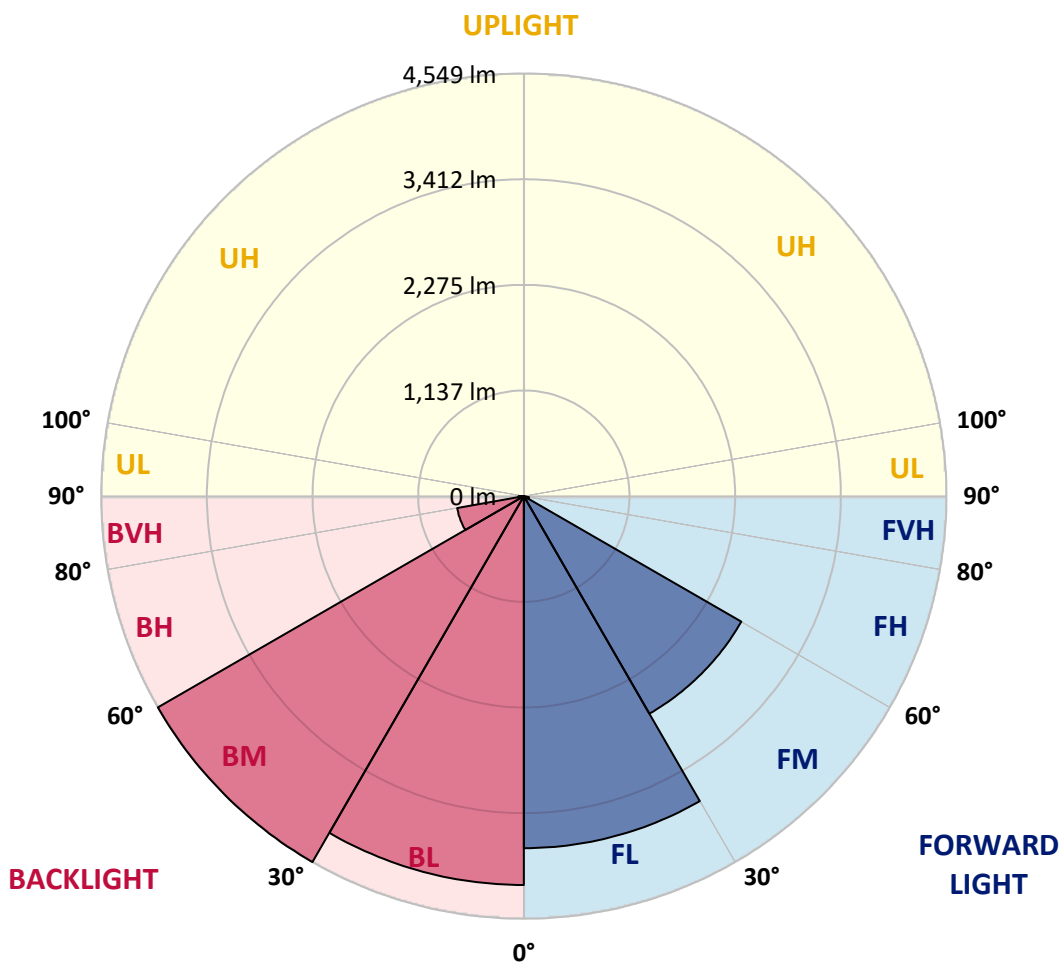
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3789.7	23.6			
FM (30°-60°)	2703.7	16.8			
FH (60°-80°)	56.7	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	4186.4	26.0	B4/5000		
BM (30°-60°)	4549.4	28.3	B3/5000		
BH (60°-80°)	728.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	56.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8
2.5°	12211.2	12227.0	12141.0	12150.1	12165.9	12281.4	12251.9	12224.8	12186.3	12251.9
5°	12195.3	12204.4	12113.8	12082.1	12095.7	12199.9	12104.8	12104.8	12095.7	12084.4
7.5°	12073.1	12077.6	12007.4	11950.8	11987.1	12034.6	11964.4	11998.4	11948.6	11987.1
10°	11889.7	11860.3	11776.5	11760.7	11801.4	11846.7	11799.2	11830.9	11785.6	11815.0
12.5°	11620.3	11575.0	11507.1	11486.8	11556.9	11618.1	11579.6	11561.5	11502.6	11575.0
15°	10581.2	10547.3	10701.2	10970.6	11212.8	11264.9	11224.1	11242.3	11120.0	11140.4
17.5°	8709.0	8645.6	8810.9	9449.3	10359.4	10839.3	10803.1	10685.4	10504.2	10545.0
20°	7914.4	7896.3	7878.2	8029.9	8666.0	10121.7	10171.5	9872.6	9614.6	9558.0
22.5°	7466.2	7459.4	7441.3	7475.2	7642.7	8577.7	9148.2	8872.0	8700.0	8684.1
25°	7056.4	7045.1	6990.8	7033.8	7033.8	7088.1	7819.3	7986.8	7835.2	7817.1
27.5°	6639.9	6619.5	6610.4	6630.8	6526.7	6159.9	6345.6	7162.8	7083.6	7088.1
30°	6189.4	6182.6	6157.7	6200.7	5879.2	5424.2	5306.5	6415.7	6431.6	6427.1
32.5°	5519.3	5548.7	5661.9	5709.4	5179.7	4803.9	4606.9	5551.0	5874.7	5867.9
35°	4009.3	4009.3	4378.3	5064.2	4539.0	4256.0	4149.6	4706.5	5324.6	5347.2
37.5°	3296.2	3307.5	3379.9	3692.3	3916.5	3816.8	3785.2	3961.7	4618.2	4654.5
40°	2965.6	2965.6	2965.6	2836.6	2829.8	3438.8	3420.7	3364.1	3988.9	4068.1
42.5°	2664.5	2671.3	2675.9	2349.9	2168.8	2972.4	2931.7	2845.7	3425.2	3518.0
45°	2354.4	2365.7	2379.3	1965.0	1885.8	2139.3	2481.2	2386.1	2868.3	2988.3
47.5°	1437.5	1455.7	1763.5	1666.2	1675.2	1650.3	2023.9	2008.0	2352.1	2521.9
50°	971.2	978.0	1007.4	1057.2	1437.5	1297.2	1433.0	1661.7	1786.2	2044.3
52.5°	815.0	826.3	753.9	685.9	944.0	1014.2	1000.6	1233.8	1283.6	1602.8
55°	572.8	609.0	575.0	568.2	536.5	787.8	758.4	948.6	980.2	1217.9
57.5°	58.9	67.9	117.7	423.3	350.9	446.0	541.1	695.0	726.7	898.7
60°	4.5	4.5	11.3	58.9	255.8	267.1	373.5	427.9	489.0	627.1
62.5°	0.0	2.3	4.5	9.1	40.7	142.6	187.9	224.1	294.3	405.2
65°	0.0	0.0	2.3	6.8	9.1	54.3	72.4	117.7	160.7	251.3
67.5°	0.0	0.0	2.3	4.5	6.8	13.6	24.9	43.0	86.0	142.6
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	27.2	38.5	77.0
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	13.6	18.1	27.2	38.5
75°	0.0	0.0	2.3	2.3	6.8	13.6	11.3	13.6	18.1	24.9
77.5°	0.0	0.0	2.3	4.5	6.8	13.6	11.3	13.6	13.6	15.8
80°	0.0	0.0	2.3	4.5	9.1	15.8	13.6	13.6	11.3	11.3
82.5°	0.0	0.0	2.3	6.8	9.1	20.4	20.4	18.1	9.1	6.8
85°	0.0	0.0	4.5	9.1	13.6	22.6	22.6	18.1	6.8	4.5
87.5°	0.0	0.0	4.5	6.8	11.3	15.8	22.6	18.1	6.8	2.3
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°
12233.8	0°	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8	12233.8
12195.3	2.5°	12256.5	12242.9	12288.2	12306.3	12331.2	12236.1	12177.2	12179.5	12070.8
12057.2	5°	12129.7	12132.0	12190.8	12186.3	12211.2	12159.1	12136.5	12098.0	12002.9
11882.9	7.5°	11969.0	11948.6	12005.2	12048.2	11984.8	12021.0	11969.0	11987.1	11930.5
11729.0	10°	11844.4	11796.9	11849.0	11878.4	11880.7	11844.4	11794.6	11747.1	11726.7
11489.0	12.5°	11568.3	11507.1	11595.4	11636.2	11629.4	11559.2	11502.6	11513.9	11448.3
11067.9	15°	11187.9	11190.2	11253.6	11292.1	11255.8	11240.0	11244.5	11217.4	11160.8
10486.1	17.5°	10606.1	10640.1	10807.6	10900.4	10920.8	10889.1	10873.3	10841.6	10785.0
9558.0	20°	9637.2	9840.9	10139.8	10427.3	10483.9	10474.8	10418.2	10404.6	10372.9
8638.8	22.5°	8786.0	8937.7	9284.0	9732.3	9963.2	9985.8	9917.9	9897.5	9863.6
7817.1	25°	7905.4	8068.3	8380.8	8867.5	9345.2	9442.5	9431.2	9370.1	9333.8
7088.1	27.5°	7162.8	7325.8	7608.8	8048.0	8559.6	8872.0	8901.4	8804.1	8801.8
6438.4	30°	6492.7	6716.8	6931.9	7289.6	7785.4	8254.0	8303.8	8235.9	8242.7
5843.0	32.5°	5967.5	6153.1	6336.5	6576.5	6988.5	7534.1	7728.8	7665.4	7640.5
5347.2	35°	5431.0	5557.7	5745.6	5965.2	6246.0	6787.0	7124.3	7076.8	7051.9
4677.1	37.5°	4819.7	5037.1	5172.9	5419.6	5639.2	6069.4	6544.8	6538.0	6485.9
4106.6	40°	4192.6	4421.3	4627.3	4876.3	5046.1	5388.0	5915.4	5913.2	5920.0
3515.8	42.5°	3624.4	3835.0	4084.0	4355.6	4518.6	4767.7	5333.6	5365.3	5403.8
3029.0	45°	3110.5	3300.7	3531.6	3862.1	4059.1	4201.7	4704.3	4849.2	4846.9
2594.4	47.5°	2648.7	2827.5	3022.2	3343.7	3595.0	3724.0	4140.6	4346.6	4333.0
2128.0	50°	2223.1	2381.6	2585.3	2818.5	3155.8	3269.0	3579.1	3850.8	3830.4
1695.6	52.5°	1788.4	2008.0	2180.1	2392.9	2748.3	2859.2	3099.2	3364.1	3348.2
1272.3	55°	1394.5	1607.3	1815.6	1999.0	2297.8	2463.1	2635.1	2906.8	2902.3
996.1	57.5°	1055.0	1288.1	1485.1	1659.4	1897.1	2100.8	2238.9	2485.7	2517.4
681.4	60°	781.0	959.9	1172.7	1367.4	1555.3	1765.8	1858.6	2100.8	2114.4
466.4	62.5°	532.0	729.0	937.2	1113.8	1254.2	1471.5	1555.3	1754.5	1779.4
298.8	65°	369.0	495.8	733.5	860.3	1032.3	1217.9	1301.7	1460.2	1510.0
172.1	67.5°	244.5	353.2	572.8	688.2	858.0	984.8	1091.2	1220.2	1274.5
108.7	70°	133.6	260.3	409.8	543.3	690.5	812.7	916.9	1021.0	1068.5
49.8	72.5°	90.6	174.3	285.2	430.1	556.9	676.9	769.7	846.7	848.9
29.4	75°	45.3	117.7	217.3	332.8	434.7	552.4	636.1	681.4	627.1
18.1	77.5°	27.2	86.0	176.6	267.1	353.2	446.0	493.5	518.4	430.1
13.6	80°	15.8	61.1	138.1	212.8	244.5	328.3	373.5	380.3	287.5
9.1	82.5°	11.3	45.3	108.7	156.2	149.4	230.9	280.7	271.7	183.4
6.8	85°	6.8	31.7	67.9	97.3	90.6	151.7	163.0	167.5	106.4
4.5	87.5°	4.5	18.1	36.2	52.1	43.0	65.7	65.7	79.2	52.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12233.8
11930.5
11980.3
11835.4
11636.2
11391.7
11104.2
10760.1
10300.5
9854.5
9295.4
8797.3
8208.7
7642.7
7017.9
6528.9
5920.0
5383.4
4851.4
4337.5
3848.5
3382.2
2913.6
2503.8
2134.8
1783.9
1498.7
1267.8
1050.4
828.6
586.3
414.3
269.4
169.8
97.3
45.3
0.0

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