

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: P637800

Luminaire Tested: **IFLD-M-SA4E-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637800
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22487 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

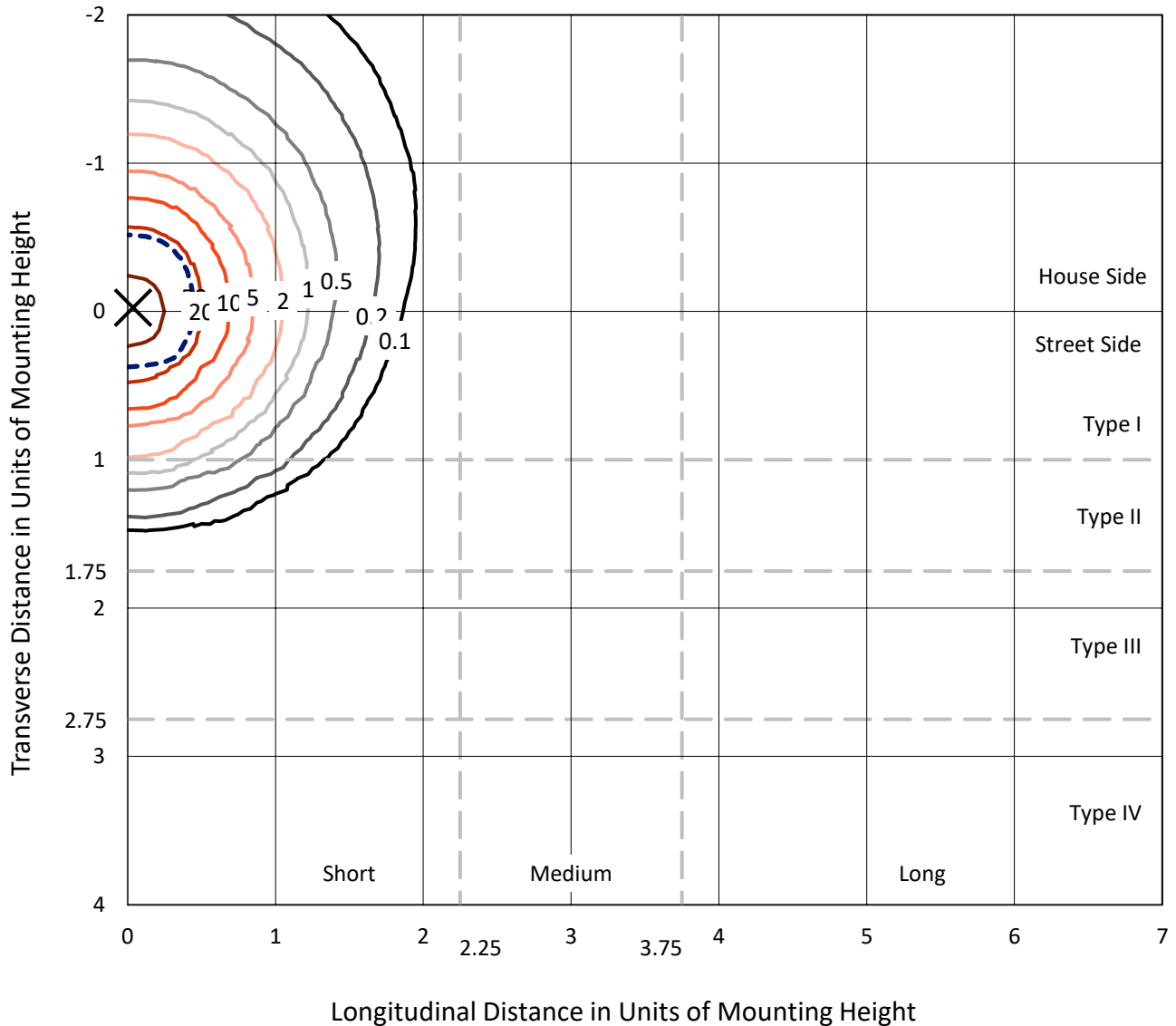
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

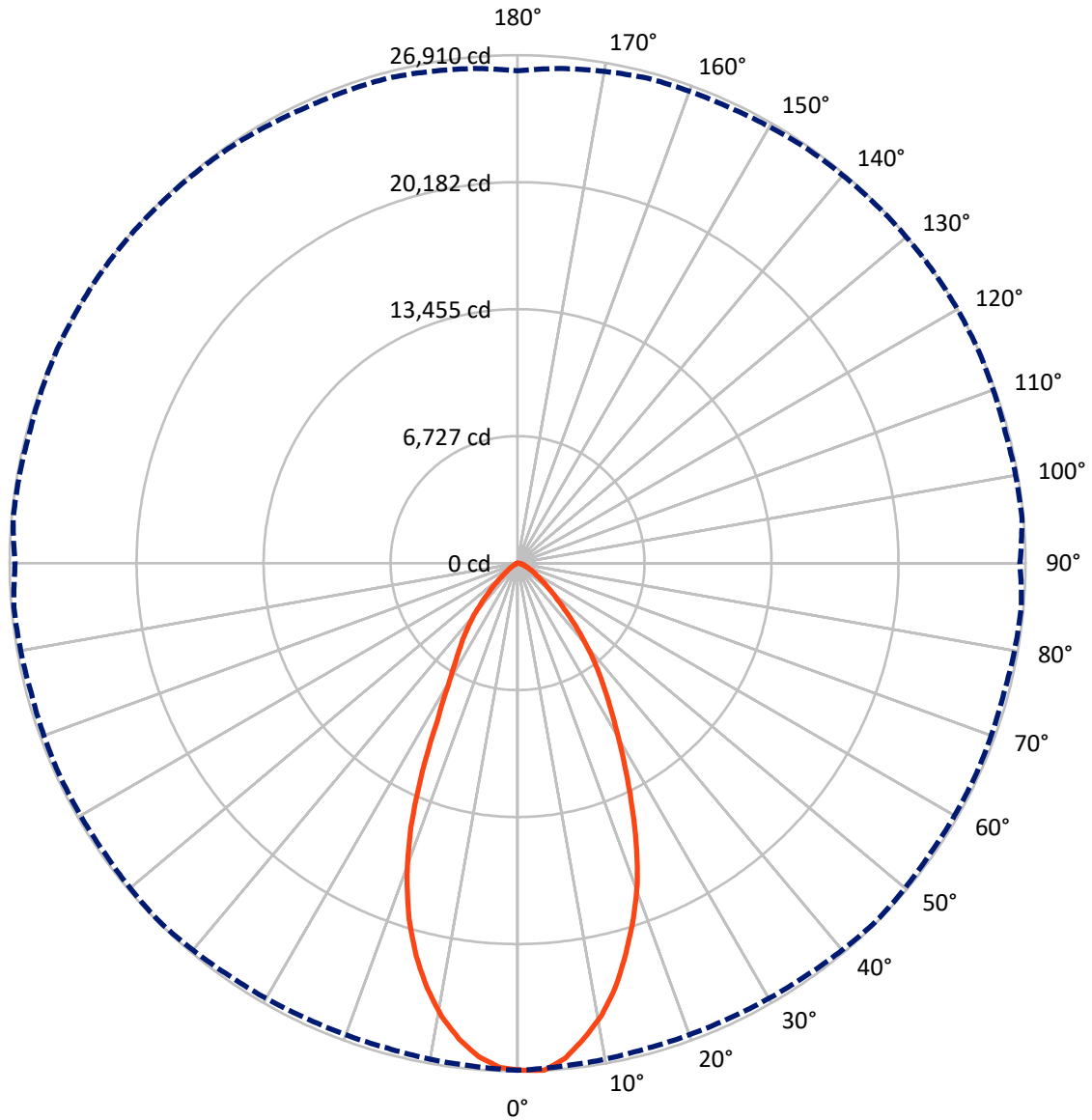
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 67.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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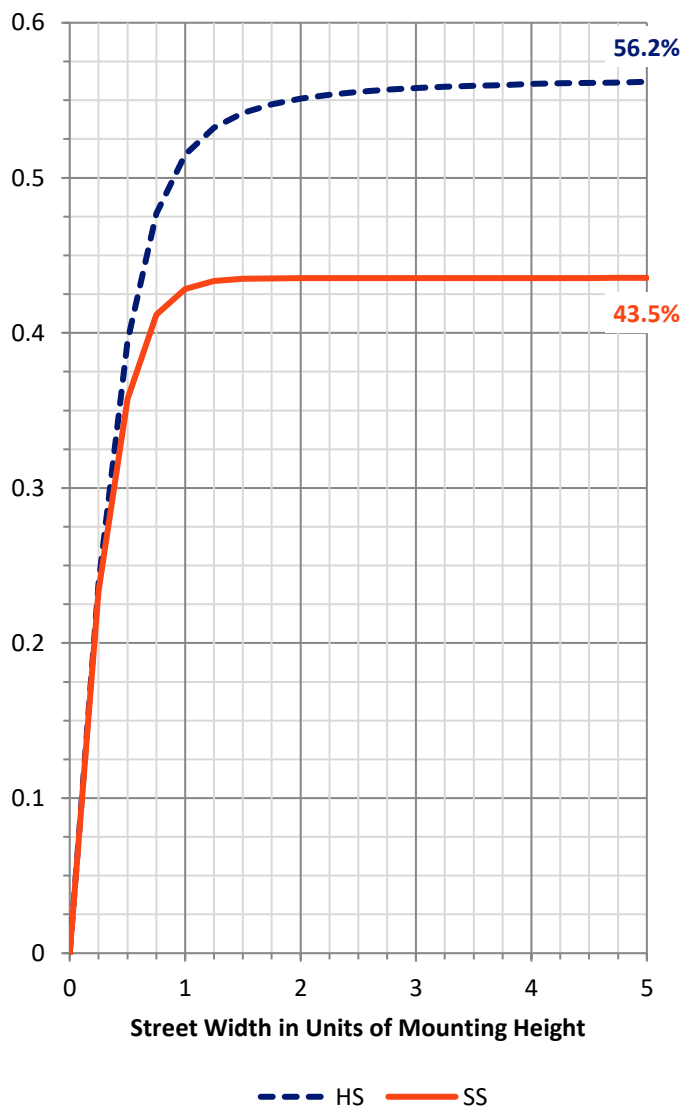
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12760.0	0.0	12760.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9727.0	0.0	9727.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	22487.0	0.0	22487.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2439.6	10.8
10°-20°	5815.4	25.9
20°-30°	5922.9	26.3
30°-40°	4416.7	19.6
40°-50°	2307.4	10.3
50°-60°	970.5	4.3
60°-70°	396.4	1.8
70°-80°	166.8	0.7
80°-90°	51.4	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°	22487.0	100.0
0°-180°	22487.0	100.0



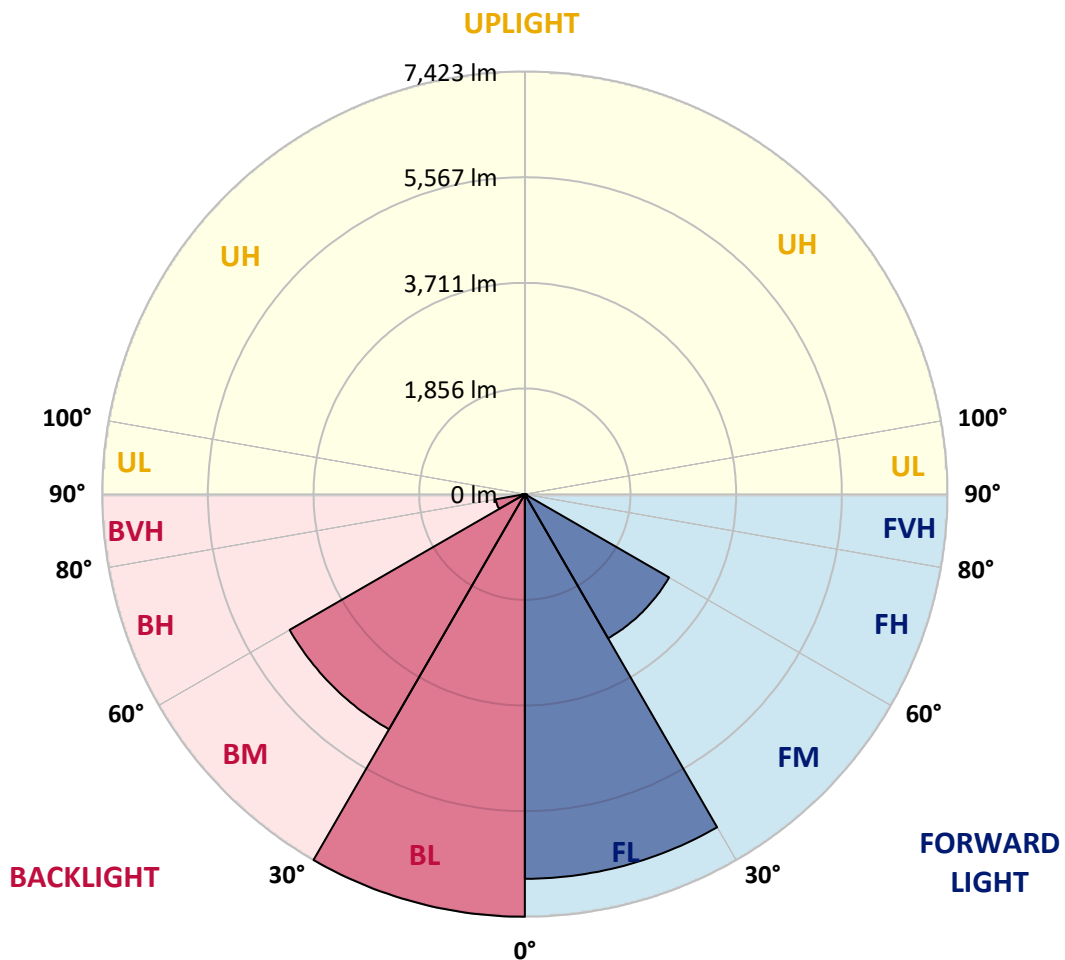
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6755.4	30.0			
FM (30°-60°)	2924.5	13.0			
FH (60°-80°)	42.3	0.2			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	7422.5	33.0	B5		
BM (30°-60°)	4770.1	21.2	B3/5000		
BH (60°-80°)	520.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	46.6	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°	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6
2.5°	26869.5	26759.7	26603.7	26589.3	26670.1	26846.3	26733.7	26739.5	26670.1	26788.6
5°	26447.7	26343.7	26236.9	26095.3	26213.8	26288.9	26231.1	26167.5	26078.0	26193.5
7.5°	25650.5	25592.7	25433.8	25370.3	25442.5	25526.3	25402.1	25384.7	25260.5	25410.7
10°	24431.5	24408.4	24252.4	24214.9	24278.4	24405.5	24350.6	24339.1	24261.1	24246.6
12.5°	23166.3	23076.8	22883.2	22871.7	22967.0	23157.6	23010.3	22868.8	22912.1	22949.7
15°	19908.0	19812.7	20292.2	21046.1	21441.8	21427.4	21470.7	21300.3	21248.3	21265.6
17.5°	15826.5	15664.7	15838.0	17005.0	18885.5	19977.3	19676.9	19310.1	19113.7	18983.7
20°	13660.0	13668.7	13636.9	13937.3	15110.1	17600.0	17527.8	16820.1	16563.0	16456.2
22.5°	12342.8	12293.7	12224.4	12319.7	12634.6	14096.2	15075.4	14425.5	14336.0	14217.5
25°	11051.7	11051.7	10967.9	11063.2	11152.8	11173.0	12155.1	12420.8	12247.5	12247.5
27.5°	9933.8	9876.0	9838.5	9881.8	9763.4	9194.3	9318.5	10679.0	10560.6	10488.4
30°	8824.6	8807.2	8743.7	8801.5	8362.4	7721.1	7461.2	9012.3	9136.5	9110.5
32.5°	7285.0	7354.3	7637.4	7726.9	6975.9	6458.8	6210.4	7481.4	7978.2	7958.0
35°	4951.0	5008.8	5332.3	6401.1	5782.9	5413.2	5341.0	5950.4	6767.9	6845.9
37.5°	3942.9	3934.2	4026.7	4217.3	4647.7	4558.2	4537.9	4696.8	5520.1	5554.7
40°	3249.6	3238.1	3235.2	3079.2	2972.3	3789.8	3734.9	3639.6	4353.1	4422.4
42.5°	2619.9	2631.5	2640.2	2299.3	2143.3	2923.2	2891.5	2793.2	3414.3	3495.2
45°	2056.7	2053.8	2071.1	1712.9	1669.6	1868.9	2160.6	2082.7	2576.6	2663.3
47.5°	1065.9	1103.4	1337.4	1325.9	1346.1	1325.9	1634.9	1614.7	1938.2	2076.9
50°	716.4	727.9	748.1	751.0	1060.1	976.3	1109.2	1256.5	1357.6	1571.4
52.5°	554.6	563.3	511.3	479.5	649.9	722.1	727.9	869.5	947.5	1164.1
55°	309.1	346.6	372.6	375.5	358.2	534.4	531.5	644.2	704.8	849.2
57.5°	40.4	49.1	75.1	242.6	239.8	297.5	372.6	467.9	502.6	621.0
60°	2.9	5.8	8.7	37.6	158.9	173.3	254.2	291.7	349.5	436.2
62.5°	0.0	0.0	2.9	8.7	31.8	101.1	132.9	153.1	205.1	286.0
65°	0.0	0.0	2.9	5.8	11.6	37.6	52.0	83.8	121.3	176.2
67.5°	0.0	0.0	2.9	5.8	8.7	14.4	23.1	37.6	63.5	106.9
70°	0.0	0.0	2.9	5.8	8.7	11.6	17.3	23.1	34.7	57.8
72.5°	0.0	0.0	2.9	2.9	5.8	14.4	14.4	17.3	23.1	31.8
75°	0.0	0.0	2.9	5.8	8.7	14.4	14.4	14.4	17.3	20.2
77.5°	0.0	0.0	2.9	5.8	8.7	14.4	11.6	14.4	14.4	14.4
80°	0.0	0.0	2.9	5.8	8.7	14.4	17.3	14.4	11.6	11.6
82.5°	0.0	0.0	2.9	8.7	8.7	20.2	20.2	20.2	8.7	8.7
85°	0.0	0.0	5.8	8.7	14.4	23.1	23.1	17.3	8.7	5.8
87.5°	0.0	0.0	2.9	5.8	5.8	11.6	17.3	14.4	5.8	2.9
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°
26866.6	0°	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6	26866.6
26615.3	2.5°	26829.0	26756.8	26892.6	26909.9	26852.1	26779.9	26612.4	26597.9	26306.2
26026.0	5°	26320.6	26202.2	26288.9	26346.6	26326.4	26248.4	26179.1	26115.5	25852.7
25069.9	7.5°	25373.2	25329.8	25370.3	25413.6	25497.4	25413.6	25384.7	25318.3	25058.3
24128.2	10°	24321.7	24240.9	24394.0	24373.7	24350.6	24327.5	24206.2	24217.8	23911.6
22845.7	12.5°	23030.5	22894.8	23042.1	23059.4	23042.1	22961.2	22825.5	22883.2	22603.0
21112.5	15°	21294.5	21280.1	21387.0	21456.3	21505.4	21418.7	21372.5	21401.4	21233.9
18882.6	17.5°	19162.8	19350.5	19700.0	19818.5	19821.4	19910.9	19884.9	19850.2	19726.0
16412.8	20°	16655.5	17016.6	17553.8	18105.5	18264.4	18189.3	18154.6	18218.2	18033.3
14093.3	22.5°	14341.7	14650.8	15274.7	16080.7	16545.7	16591.9	16583.3	16528.4	16456.2
12236.0	25°	12377.5	12651.9	13249.9	13986.4	14879.0	15011.9	15017.7	15000.3	14936.8
10551.9	27.5°	10719.5	11051.7	11381.0	12039.5	12989.9	13538.7	13469.4	13449.2	13426.1
9130.8	30°	9217.4	9636.3	9945.3	10355.5	11207.6	11950.0	12022.2	11987.6	11932.7
7955.1	32.5°	8027.3	8275.7	8668.6	8945.9	9558.3	10398.8	10676.1	10650.1	10601.0
6895.0	35°	6993.2	7091.4	7400.5	7709.6	8116.9	8931.5	9341.6	9283.9	9275.2
5618.3	37.5°	5759.8	6089.1	6259.5	6571.5	6857.5	7490.1	8056.2	8030.2	8033.1
4517.7	40°	4650.6	4841.2	5179.2	5442.1	5704.9	6167.1	6796.8	6814.1	6808.4
3498.1	42.5°	3570.3	3755.1	4110.4	4396.4	4630.4	4916.3	5517.2	5537.4	5563.4
2723.9	45°	2787.5	2905.9	3165.9	3463.4	3711.8	3885.1	4341.5	4471.5	4474.4
2111.5	47.5°	2163.5	2299.3	2484.2	2770.1	3012.8	3137.0	3469.2	3645.4	3636.7
1620.5	50°	1698.5	1822.7	1972.9	2198.2	2461.1	2559.3	2804.8	2978.1	2969.4
1221.9	52.5°	1299.9	1458.7	1591.6	1764.9	2022.0	2105.8	2282.0	2481.3	2452.4
895.5	55°	985.0	1146.8	1271.0	1415.4	1649.4	1756.2	1877.6	2036.4	2042.2
693.3	57.5°	742.4	909.9	1022.6	1169.9	1346.1	1464.5	1556.9	1727.4	1724.5
473.7	60°	531.5	675.9	811.7	964.8	1100.5	1236.3	1299.9	1461.6	1467.4
335.1	62.5°	384.2	519.9	649.9	782.8	904.1	1037.0	1094.8	1221.9	1239.2
219.5	65°	268.6	364.0	514.2	615.3	751.0	849.2	924.3	1034.1	1054.3
130.0	67.5°	173.3	262.9	407.3	496.8	621.0	704.8	782.8	869.5	895.5
83.8	70°	104.0	199.3	303.3	398.6	511.3	586.4	661.5	736.6	751.0
40.4	72.5°	66.4	138.7	219.5	323.5	410.2	491.1	557.5	612.4	569.0
26.0	75°	37.6	95.3	173.3	254.2	332.2	410.2	465.1	493.9	395.7
17.3	77.5°	23.1	69.3	141.5	205.1	257.1	329.3	364.0	381.3	283.1
11.6	80°	14.4	52.0	118.4	167.5	167.5	242.6	283.1	297.5	205.1
8.7	82.5°	11.6	37.6	92.4	127.1	112.7	182.0	222.4	225.3	144.4
5.8	85°	8.7	28.9	57.8	83.8	78.0	127.1	130.0	144.4	95.3
5.8	87.5°	5.8	17.3	34.7	49.1	43.3	60.7	69.3	78.0	52.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
26866.6
26078.0
25641.8
25003.4
23807.6
22522.2
21031.7
19541.2
17900.5
16317.5
14723.0
13290.3
11863.3
10471.1
9179.9
7940.7
6707.3
5476.7
4399.3
3604.9
2969.4
2455.3
2042.2
1718.7
1452.9
1233.4
1048.6
892.6
739.5
528.6
375.5
265.7
190.6
132.9
86.7
46.2
0.0

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