

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: P638029

Luminaire Tested: **IFLD-M-SA4B-830-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638029  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-830-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15302.8 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

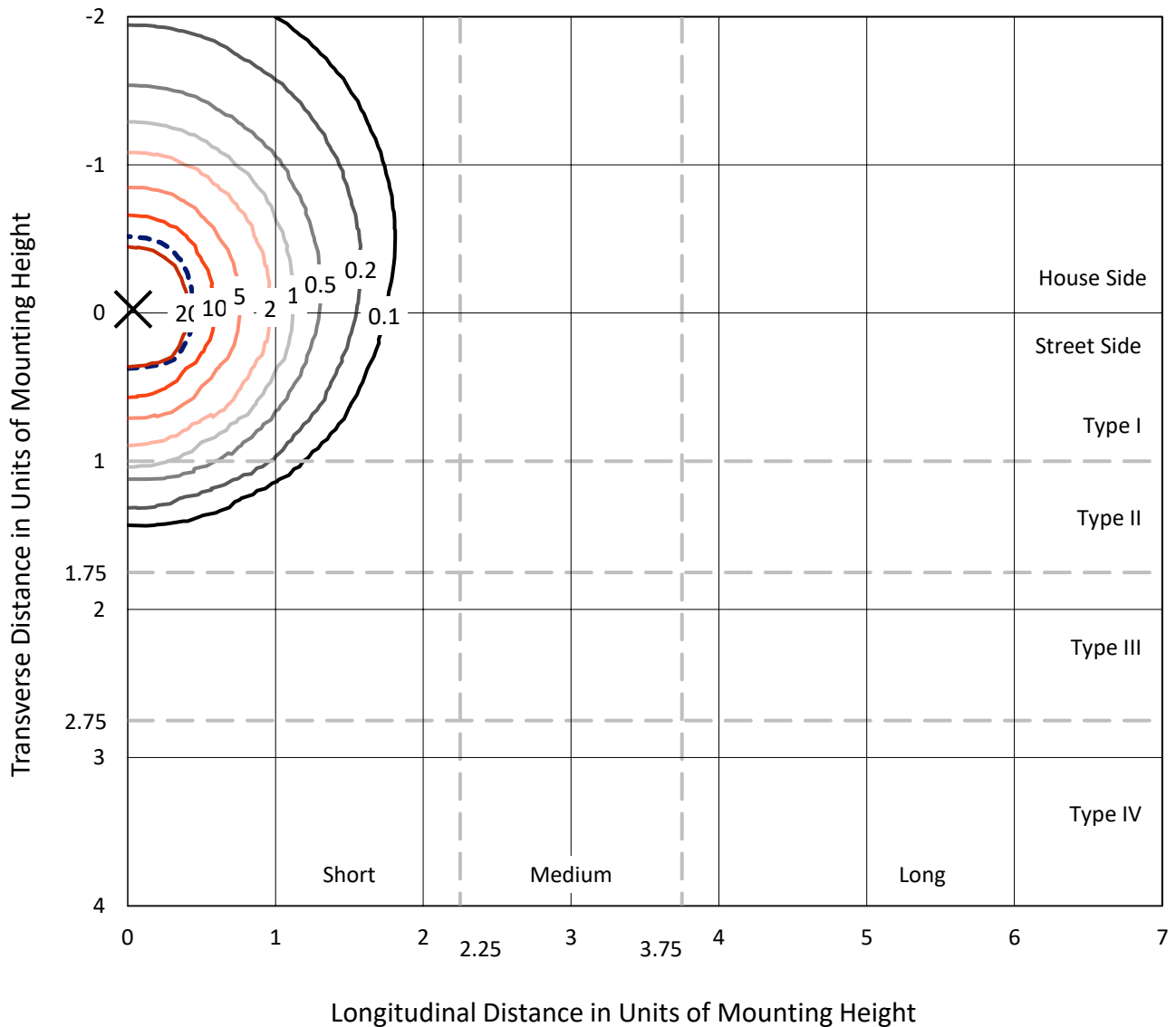
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

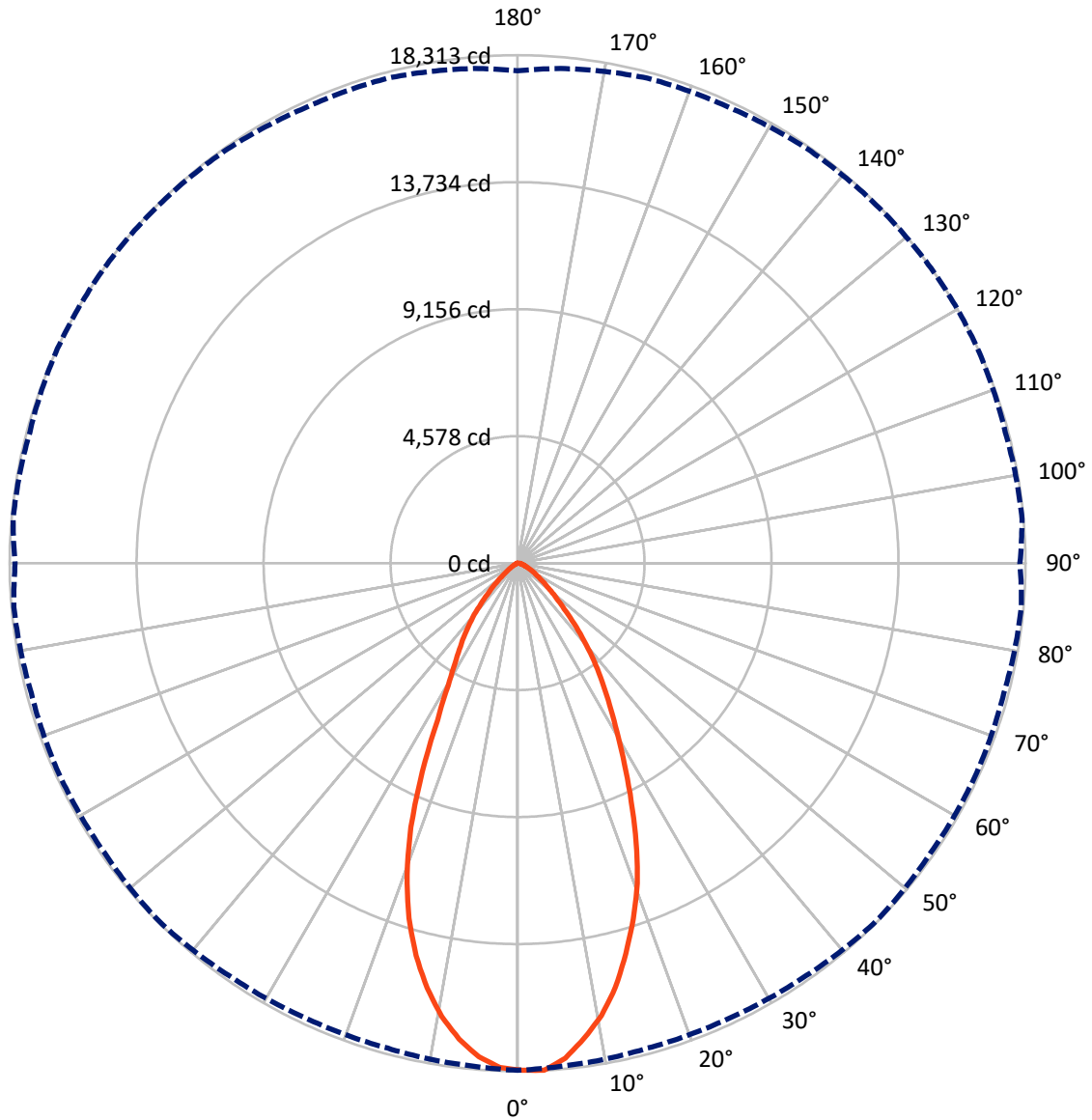
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.7 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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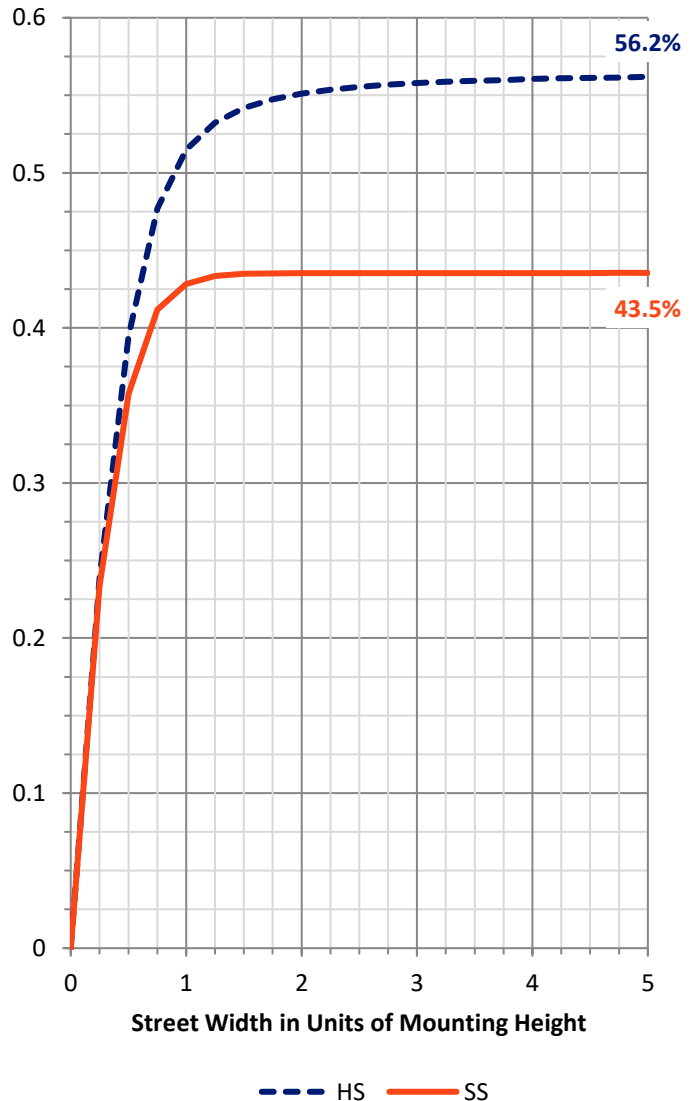
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8683.4	0.0	8683.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	6619.4	0.0	6619.4
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	15302.8	0.0	15302.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1660.2	10.8
10°-20°	3957.5	25.9
20°-30°	4030.6	26.3
30°-40°	3005.6	19.6
40°-50°	1570.2	10.3
50°-60°	660.4	4.3
60°-70°	269.7	1.8
70°-80°	113.5	0.7
80°-90°	35.0	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°	15302.8	100.0
0°-180°	15302.8	100.0

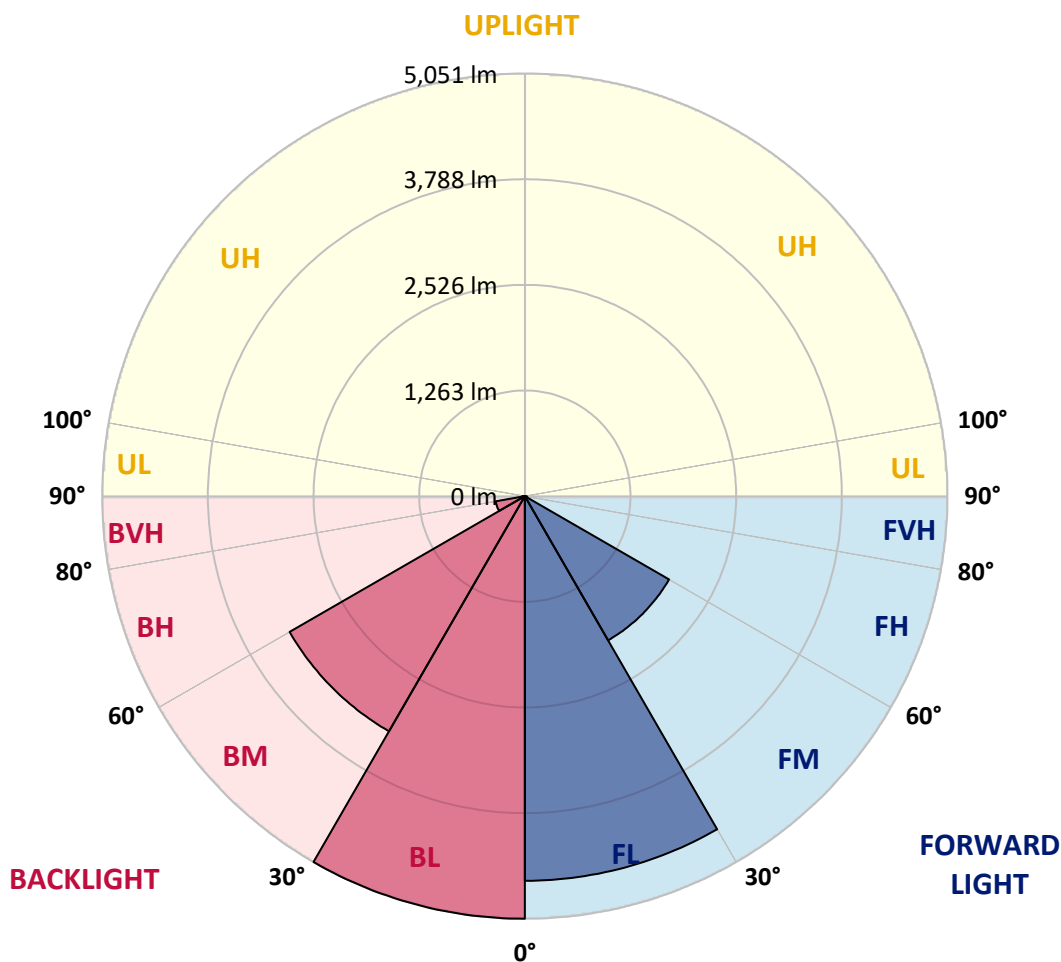


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4597.2	30.0			
FM (30°-60°)	1990.2	13.0			
FH (60°-80°)	28.8	0.2			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	5051.1	33.0	B5		
BM (30°-60°)	3246.1	21.2	B3/5000		
BH (60°-80°)	354.4	2.3	B1/500		G1/500
BVH (80°-90°)	31.7	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°	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1
2.5°	18285.1	18210.4	18104.3	18094.4	18149.5	18269.4	18192.7	18196.7	18149.5	18230.1
5°	17998.1	17927.4	17854.6	17758.3	17838.9	17890.0	17850.7	17807.4	17746.5	17825.1
7.5°	17455.6	17416.3	17308.1	17264.9	17314.0	17371.1	17286.5	17274.7	17190.2	17292.4
10°	16626.0	16610.3	16504.2	16478.6	16521.9	16608.4	16571.0	16563.1	16510.1	16500.2
12.5°	15765.1	15704.1	15572.4	15564.6	15629.4	15759.2	15658.9	15562.6	15592.1	15617.6
15°	13547.7	13482.9	13809.2	14322.2	14591.5	14581.7	14611.2	14495.2	14459.8	14471.6
17.5°	10770.2	10660.1	10778.0	11572.2	12851.9	13594.9	13390.5	13140.8	13007.2	12918.7
20°	9295.9	9301.8	9280.2	9484.6	10282.7	11977.1	11928.0	11446.4	11271.4	11198.7
22.5°	8399.5	8366.1	8318.9	8383.8	8598.1	9592.7	10259.1	9816.8	9755.9	9675.3
25°	7520.8	7520.8	7463.8	7528.7	7589.6	7603.4	8271.7	8452.6	8334.6	8334.6
27.5°	6760.1	6720.8	6695.2	6724.7	6644.1	6256.9	6341.4	7267.3	7186.7	7137.5
30°	6005.3	5993.5	5950.2	5989.5	5690.8	5254.4	5077.5	6133.0	6217.6	6199.9
32.5°	4957.5	5004.7	5197.4	5258.3	4747.2	4395.3	4226.3	5091.2	5429.3	5415.6
35°	3369.2	3408.6	3628.7	4356.0	3935.4	3683.8	3634.6	4049.4	4605.7	4658.8
37.5°	2683.2	2677.3	2740.2	2869.9	3162.8	3101.9	3088.1	3196.3	3756.5	3780.1
40°	2211.4	2203.6	2201.6	2095.5	2022.7	2579.0	2541.7	2476.8	2962.3	3009.5
42.5°	1782.9	1790.8	1796.7	1564.7	1458.6	1989.3	1967.7	1900.8	2323.5	2378.5
45°	1399.6	1397.6	1409.4	1165.7	1136.2	1271.8	1470.4	1417.3	1753.4	1812.4
47.5°	725.4	750.9	910.1	902.3	916.0	902.3	1112.6	1098.8	1319.0	1413.4
50°	487.5	495.4	509.1	511.1	721.4	664.4	754.8	855.1	923.9	1069.4
52.5°	377.4	383.3	347.9	326.3	442.3	491.4	495.4	591.7	644.8	792.2
55°	210.3	235.9	253.6	255.5	243.7	363.7	361.7	438.4	479.6	577.9
57.5°	27.5	33.4	51.1	165.1	163.2	202.5	253.6	318.4	342.0	422.6
60°	2.0	3.9	5.9	25.6	108.1	117.9	173.0	198.5	237.9	296.8
62.5°	0.0	0.0	2.0	5.9	21.6	68.8	90.4	104.2	139.6	194.6
65°	0.0	0.0	2.0	3.9	7.9	25.6	35.4	57.0	82.6	119.9
67.5°	0.0	0.0	2.0	3.9	5.9	9.8	15.7	25.6	43.2	72.7
70°	0.0	0.0	2.0	3.9	5.9	7.9	11.8	15.7	23.6	39.3
72.5°	0.0	0.0	2.0	2.0	3.9	9.8	9.8	11.8	15.7	21.6
75°	0.0	0.0	2.0	3.9	5.9	9.8	9.8	9.8	11.8	13.8
77.5°	0.0	0.0	2.0	3.9	5.9	9.8	7.9	9.8	9.8	9.8
80°	0.0	0.0	2.0	3.9	5.9	9.8	11.8	9.8	7.9	7.9
82.5°	0.0	0.0	2.0	5.9	5.9	13.8	13.8	13.8	5.9	5.9
85°	0.0	0.0	3.9	5.9	9.8	15.7	15.7	11.8	5.9	3.9
87.5°	0.0	0.0	2.0	3.9	3.9	7.9	11.8	9.8	3.9	2.0
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°
18283.1	0°	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1	18283.1
18112.1	2.5°	18257.6	18208.4	18300.8	18312.6	18273.3	18224.2	18110.2	18100.3	17901.8
17711.1	5°	17911.6	17831.0	17890.0	17929.3	17915.6	17862.5	17815.3	17772.1	17593.2
17060.5	7.5°	17266.9	17237.4	17264.9	17294.4	17351.4	17294.4	17274.7	17229.5	17052.6
16419.6	10°	16551.3	16496.3	16600.5	16586.7	16571.0	16555.3	16472.7	16480.6	16272.2
15546.9	12.5°	15672.7	15580.3	15680.5	15692.3	15680.5	15625.5	15533.1	15572.4	15381.7
14367.4	15°	14491.3	14481.4	14554.2	14601.4	14634.8	14575.8	14544.3	14564.0	14450.0
12849.9	17.5°	13040.6	13168.3	13406.2	13486.8	13488.8	13549.7	13532.0	13508.4	13423.9
11169.2	20°	11334.3	11580.0	11945.7	12321.1	12429.2	12378.1	12354.5	12397.8	12272.0
9590.7	22.5°	9759.8	9970.1	10394.7	10943.2	11259.6	11291.1	11285.2	11247.8	11198.7
8326.8	25°	8423.1	8609.8	9016.7	9518.0	10125.4	10215.8	10219.8	10208.0	10164.7
7180.8	27.5°	7294.8	7520.8	7744.9	8193.1	8839.8	9213.3	9166.1	9152.4	9136.7
6213.6	30°	6272.6	6557.6	6768.0	7047.1	7627.0	8132.2	8181.3	8157.7	8120.4
5413.6	32.5°	5462.7	5631.8	5899.1	6087.8	6504.6	7076.6	7265.3	7247.6	7214.2
4692.2	35°	4759.0	4825.8	5036.2	5246.5	5523.7	6078.0	6357.1	6317.8	6311.9
3823.3	37.5°	3919.6	4143.7	4259.7	4472.0	4666.6	5097.1	5482.4	5464.7	5466.7
3074.4	40°	3164.8	3294.5	3524.5	3703.4	3882.3	4196.8	4625.3	4637.1	4633.2
2380.5	42.5°	2429.6	2555.4	2797.2	2991.8	3151.0	3345.7	3754.5	3768.3	3786.0
1853.7	45°	1896.9	1977.5	2154.4	2356.9	2525.9	2643.9	2954.5	3042.9	3044.9
1436.9	47.5°	1472.3	1564.7	1690.5	1885.1	2050.2	2134.8	2360.8	2480.7	2474.8
1102.8	50°	1155.8	1240.4	1342.6	1495.9	1674.8	1741.6	1908.7	2026.7	2020.8
831.5	52.5°	884.6	992.7	1083.1	1201.1	1376.0	1433.0	1552.9	1688.6	1668.9
609.4	55°	670.3	780.4	864.9	963.2	1122.4	1195.2	1277.7	1385.8	1389.8
471.8	57.5°	505.2	619.2	695.9	796.1	916.0	996.6	1059.5	1175.5	1173.5
322.4	60°	361.7	460.0	552.4	656.5	748.9	841.3	884.6	994.7	998.6
228.0	62.5°	261.4	353.8	442.3	532.7	615.3	705.7	745.0	831.5	843.3
149.4	65°	182.8	247.7	349.9	418.7	511.1	577.9	629.0	703.7	717.5
88.5	67.5°	117.9	178.9	277.2	338.1	422.6	479.6	532.7	591.7	609.4
57.0	70°	70.8	135.6	206.4	271.3	347.9	399.0	450.1	501.3	511.1
27.5	72.5°	45.2	94.4	149.4	220.2	279.1	334.2	379.4	416.7	387.2
17.7	75°	25.6	64.9	117.9	173.0	226.1	279.1	316.5	336.1	269.3
11.8	77.5°	15.7	47.2	96.3	139.6	174.9	224.1	247.7	259.5	192.6
7.9	80°	9.8	35.4	80.6	114.0	114.0	165.1	192.6	202.5	139.6
5.9	82.5°	7.9	25.6	62.9	86.5	76.7	123.8	151.4	153.3	98.3
3.9	85°	5.9	19.7	39.3	57.0	53.1	86.5	88.5	98.3	64.9
3.9	87.5°	3.9	11.8	23.6	33.4	29.5	41.3	47.2	53.1	35.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
18283.1  
*17746.5*  
17449.7  
17015.3  
16201.5  
15326.7  
14312.4  
13298.1  
12181.6  
11104.3  
10019.3  
9044.3  
8073.2  
7125.7  
6247.1  
5403.8  
4564.4  
3727.0  
2993.8  
2453.2  
2020.8  
1670.9  
1389.8  
1169.6  
988.8  
839.4  
713.6  
607.4  
503.2  
359.7  
255.5  
180.8  
129.7  
90.4  
59.0  
31.5  
0.0

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