

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: P638061

Luminaire Tested: **IFLD-M-SA4E-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638061  
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-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20512.8 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

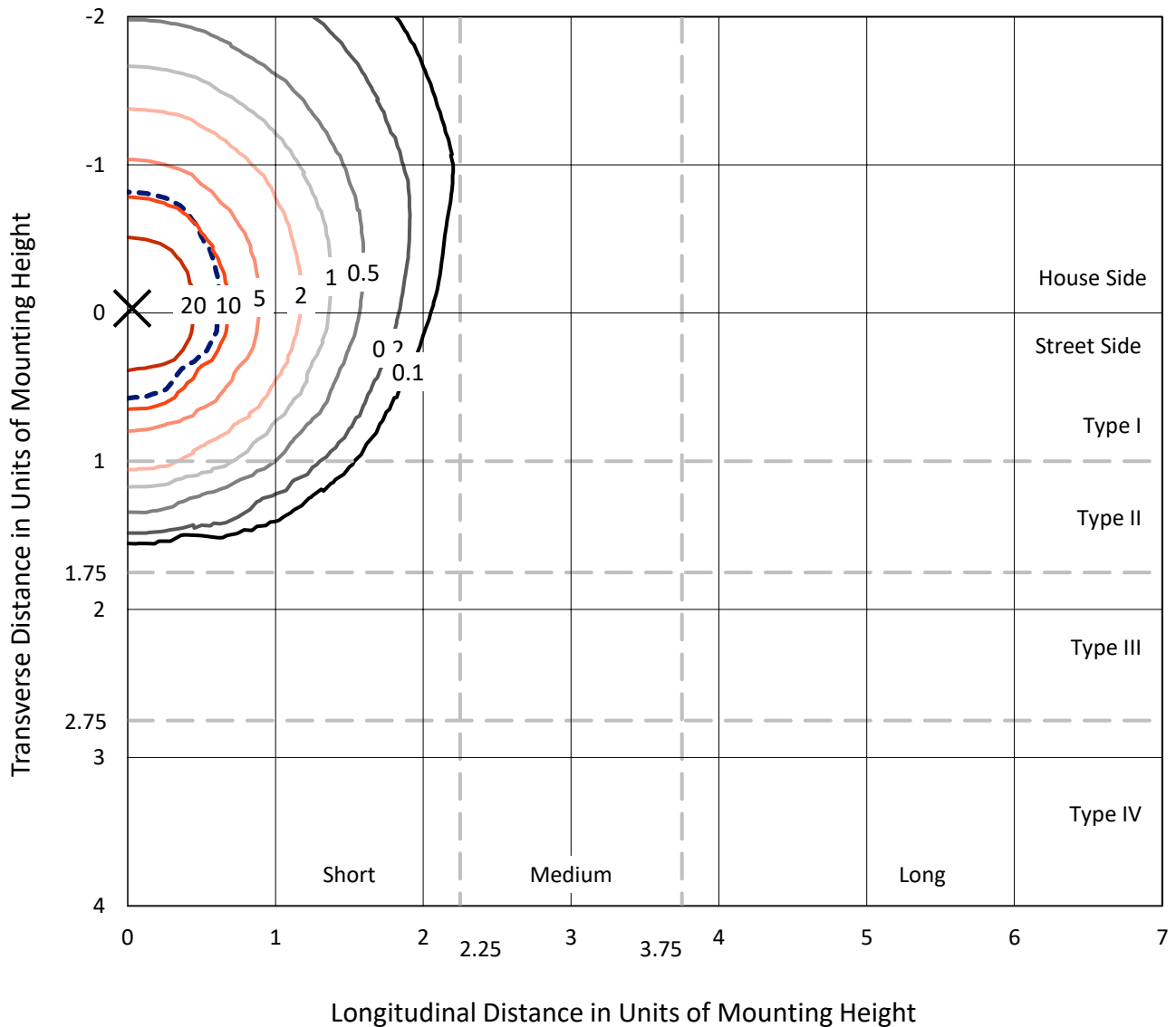
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

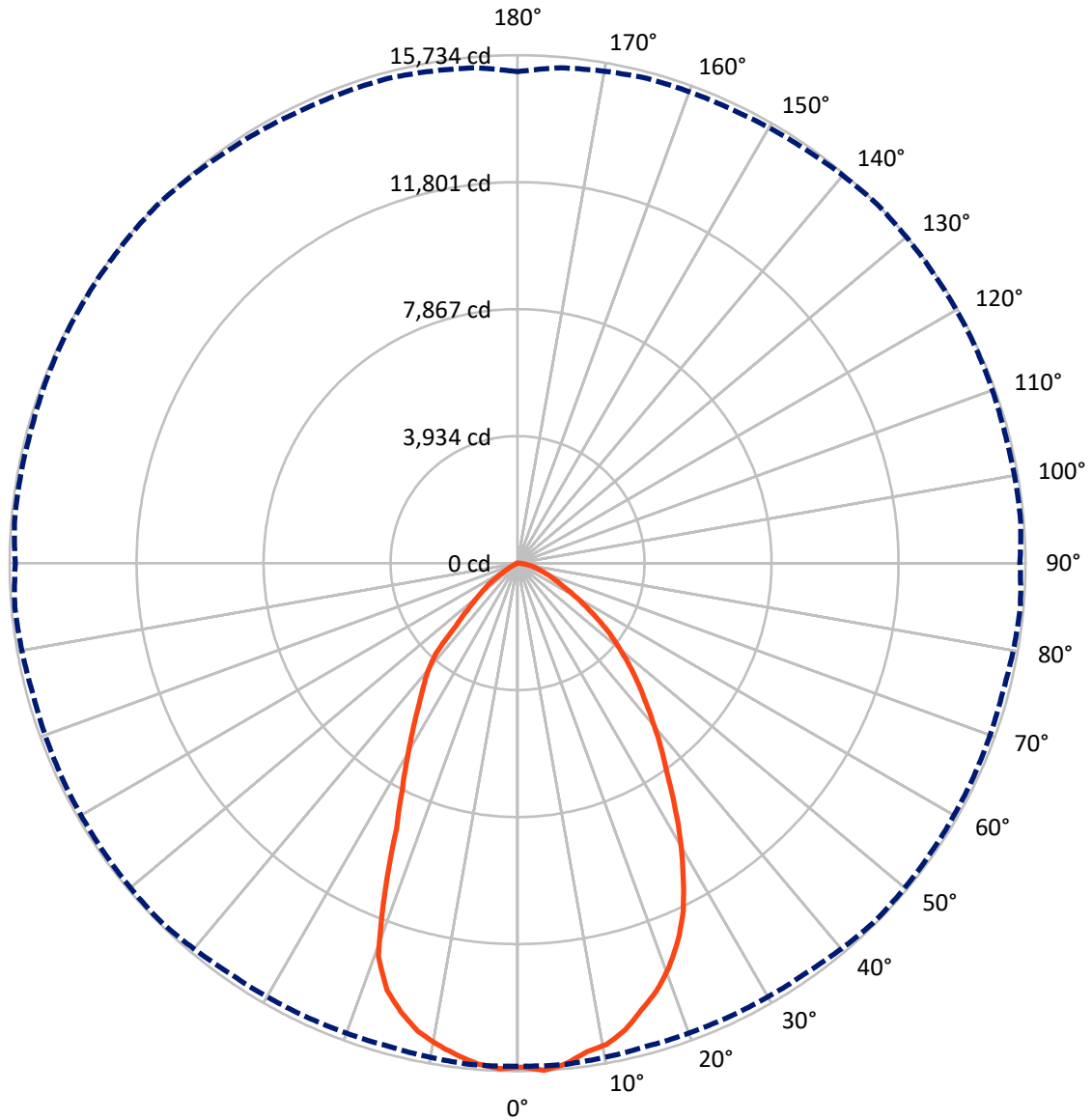
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 39 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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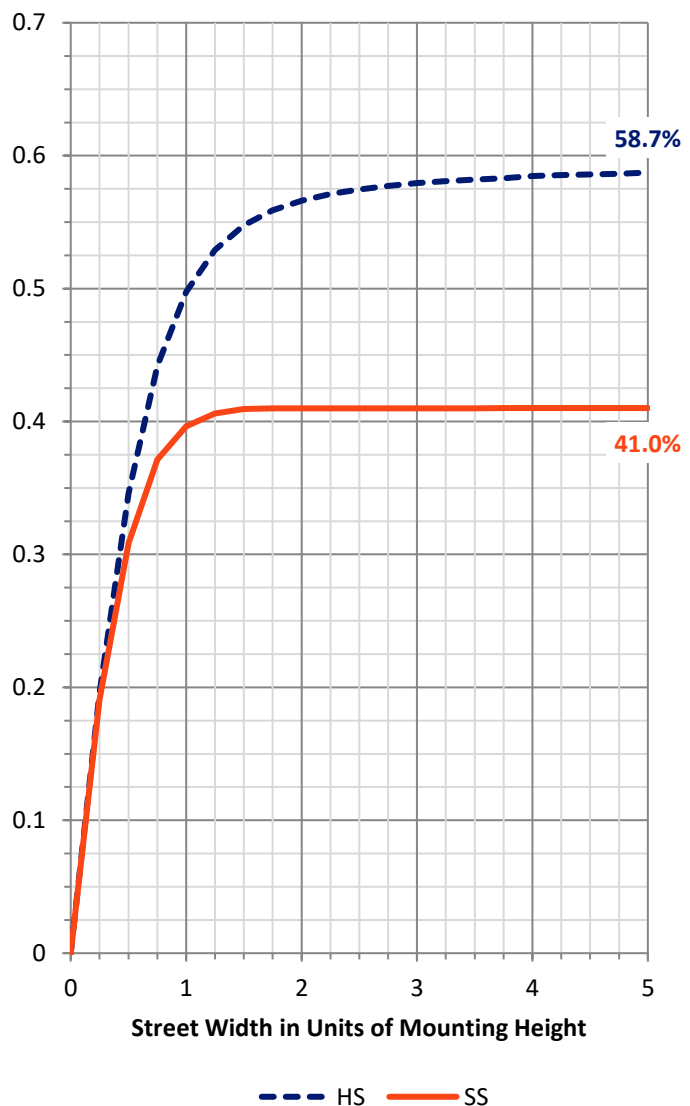
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12148.7	0.0	12148.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8364.1	0.0	8364.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	20512.8	0.0	20512.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1464.0	7.1
10°-20°	3925.8	19.1
20°-30°	4787.7	23.3
30°-40°	4371.1	21.3
40°-50°	3158.9	15.4
50°-60°	1724.8	8.4
60°-70°	713.1	3.5
70°-80°	288.8	1.4
80°-90°	78.6	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°	20512.8	100.0
0°-180°	20512.8	100.0



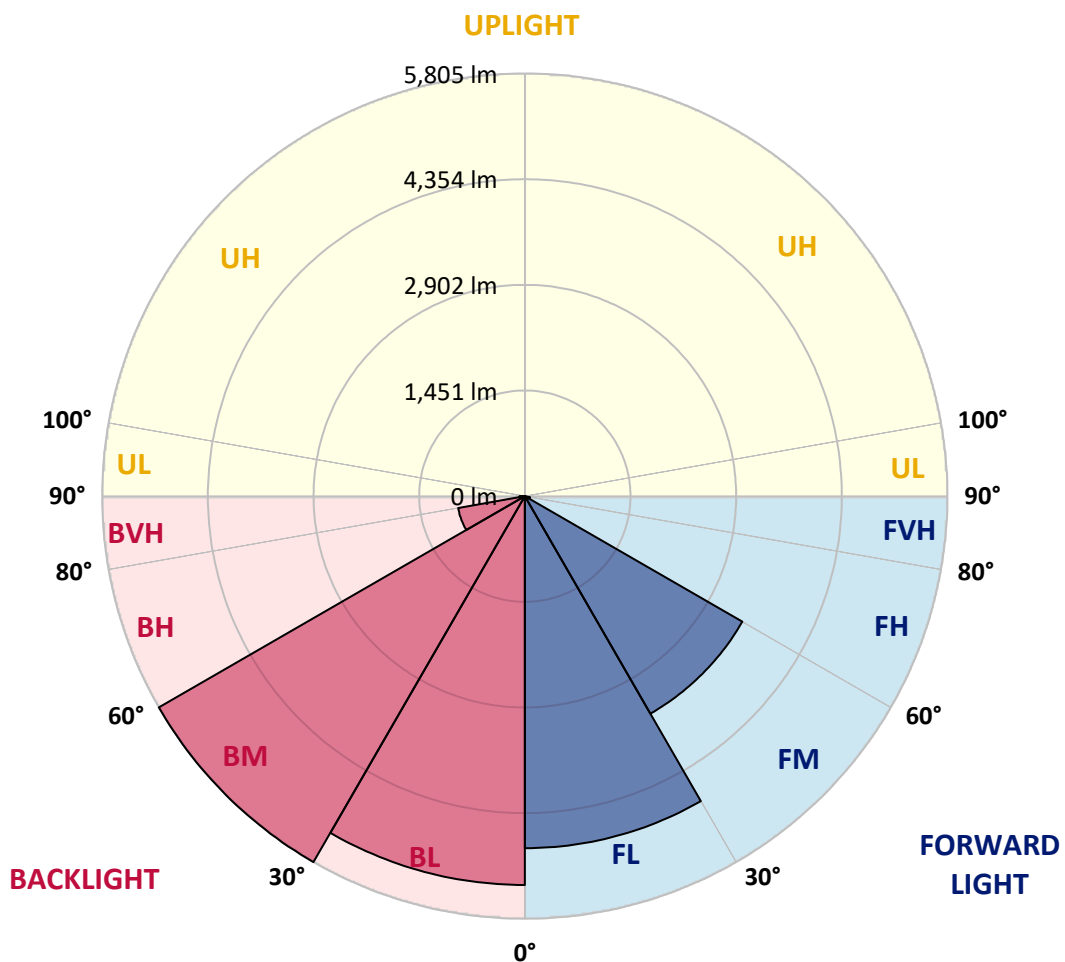
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4835.6	23.6			
FM (30°-60°)	3449.9	16.8			
FH (60°-80°)	72.3	0.4			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	5341.8	26.0	B5		
BM (30°-60°)	5805.0	28.3	B4/8500		
BH (60°-80°)	929.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	72.3	0.4			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°	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2
2.5°	15581.3	15601.5	15491.8	15503.3	15523.5	15670.9	15633.3	15598.7	15549.5	15633.3
5°	15561.1	15572.7	15457.1	15416.7	15434.0	15566.9	15445.6	15445.6	15434.0	15419.6
7.5°	15405.1	15410.9	15321.3	15249.1	15295.3	15356.0	15266.5	15309.8	15246.2	15295.3
10°	15171.1	15133.6	15026.7	15006.5	15058.5	15116.2	15055.6	15096.0	15038.3	15075.8
12.5°	14827.4	14769.6	14683.0	14657.0	14746.5	14824.5	14775.4	14752.3	14677.2	14769.6
15°	13501.5	13458.2	13654.6	13998.3	14307.4	14373.9	14321.9	14345.0	14189.0	14215.0
17.5°	11112.6	11031.7	11242.6	12057.2	13218.4	13830.8	13784.6	13634.4	13403.3	13455.3
20°	10098.7	10075.6	10052.5	10246.0	11057.7	12915.1	12978.7	12597.4	12268.1	12195.8
22.5°	9526.7	9518.1	9495.0	9538.3	9752.0	10945.1	11673.0	11320.6	11101.0	11080.8
25°	9003.9	8989.4	8920.1	8975.0	8975.0	9044.3	9977.4	10191.1	9997.6	9974.5
27.5°	8472.4	8446.4	8434.8	8460.8	8327.9	7860.0	8096.9	9139.7	9038.6	9044.3
30°	7897.5	7888.9	7857.1	7912.0	7501.8	6921.2	6771.0	8186.4	8206.6	8200.8
32.5°	7042.5	7080.1	7224.5	7285.1	6609.2	6129.7	5878.4	7082.9	7496.0	7487.4
35°	5115.8	5115.8	5586.6	6461.9	5791.7	5430.6	5294.9	6005.5	6794.1	6823.0
37.5°	4205.9	4220.3	4312.7	4711.4	4997.3	4870.2	4829.8	5055.1	5892.8	5939.0
40°	3784.1	3784.1	3784.1	3619.5	3610.8	4387.8	4364.7	4292.5	5089.8	5190.9
42.5°	3399.9	3408.6	3414.4	2998.4	2767.3	3792.8	3740.8	3631.0	4370.5	4488.9
45°	3004.2	3018.6	3036.0	2507.3	2406.2	2729.8	3165.9	3044.6	3659.9	3813.0
47.5°	1834.3	1857.4	2250.2	2126.0	2137.6	2105.8	2582.4	2562.2	3001.3	3217.9
50°	1239.2	1247.9	1285.4	1349.0	1834.3	1655.2	1828.5	2120.3	2279.1	2608.4
52.5°	1039.9	1054.4	961.9	875.3	1204.6	1294.1	1276.8	1574.3	1637.9	2045.2
55°	730.8	777.0	733.7	725.0	684.6	1005.2	967.7	1210.3	1250.8	1554.1
57.5°	75.1	86.7	150.2	540.2	447.7	569.1	690.4	886.8	927.3	1146.8
60°	5.8	5.8	14.4	75.1	326.4	340.9	476.6	546.0	623.9	800.2
62.5°	0.0	2.9	5.8	11.6	52.0	182.0	239.8	286.0	375.5	517.1
65°	0.0	0.0	2.9	8.7	11.6	69.3	92.4	150.2	205.1	320.6
67.5°	0.0	0.0	2.9	5.8	8.7	17.3	31.8	54.9	109.8	182.0
70°	0.0	0.0	2.9	5.8	8.7	14.4	23.1	34.7	49.1	98.2
72.5°	0.0	0.0	2.9	2.9	5.8	14.4	17.3	23.1	34.7	49.1
75°	0.0	0.0	2.9	2.9	8.7	17.3	14.4	17.3	23.1	31.8
77.5°	0.0	0.0	2.9	5.8	8.7	17.3	14.4	17.3	17.3	20.2
80°	0.0	0.0	2.9	5.8	11.6	20.2	17.3	17.3	14.4	14.4
82.5°	0.0	0.0	2.9	8.7	11.6	26.0	26.0	23.1	11.6	8.7
85°	0.0	0.0	5.8	11.6	17.3	28.9	28.9	23.1	8.7	5.8
87.5°	0.0	0.0	5.8	8.7	14.4	20.2	28.9	23.1	8.7	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°
15610.2	0°	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2	15610.2
15561.1	2.5°	15639.1	15621.8	15679.5	15702.6	15734.4	15613.1	15538.0	15540.9	15402.2
15384.9	5°	15477.3	15480.2	15555.3	15549.5	15581.3	15514.9	15486.0	15436.9	15315.6
15162.5	7.5°	15272.2	15246.2	15318.5	15373.3	15292.5	15338.7	15272.2	15295.3	15223.1
14966.0	10°	15113.4	15052.7	15119.1	15156.7	15159.6	15113.4	15049.8	14989.1	14963.2
14659.8	12.5°	14760.9	14683.0	14795.6	14847.6	14838.9	14749.4	14677.2	14691.6	14607.8
14122.6	15°	14275.7	14278.5	14359.4	14408.5	14362.3	14342.1	14347.9	14313.2	14241.0
13380.2	17.5°	13533.3	13576.6	13790.4	13908.8	13934.8	13894.4	13874.1	13833.7	13761.5
12195.8	20°	12296.9	12556.9	12938.2	13305.1	13377.3	13365.7	13293.5	13276.2	13235.7
11023.0	22.5°	11210.8	11404.3	11846.3	12418.3	12712.9	12741.8	12655.1	12629.1	12585.8
9974.5	25°	10087.1	10295.1	10693.7	11314.8	11924.3	12048.5	12034.1	11956.1	11909.9
9044.3	27.5°	9139.7	9347.6	9708.7	10269.1	10921.9	11320.6	11358.1	11233.9	11231.0
8215.3	30°	8284.6	8570.6	8845.0	9301.4	9934.0	10532.0	10595.5	10508.9	10517.5
7455.6	32.5°	7614.5	7851.3	8085.3	8391.5	8917.2	9613.4	9861.8	9780.9	9749.2
6823.0	35°	6929.8	7091.6	7331.4	7611.6	7969.8	8660.1	9090.5	9029.9	8998.1
5967.9	37.5°	6149.9	6427.2	6600.5	6915.4	7195.6	7744.4	8351.1	8342.4	8276.0
5240.0	40°	5349.8	5641.5	5904.4	6222.1	6438.8	6875.0	7548.0	7545.1	7553.8
4486.1	42.5°	4624.7	4893.4	5211.1	5557.7	5765.7	6083.5	6805.6	6846.1	6895.2
3865.0	45°	3969.0	4211.6	4506.3	4928.0	5179.3	5361.3	6002.6	6187.5	6184.6
3310.4	47.5°	3379.7	3607.9	3856.3	4266.5	4587.2	4751.8	5283.3	5546.2	5528.9
2715.3	50°	2836.6	3038.8	3298.8	3596.4	4026.8	4171.2	4566.9	4913.6	4887.6
2163.6	52.5°	2282.0	2562.2	2781.8	3053.3	3506.8	3648.4	3954.5	4292.5	4272.3
1623.4	55°	1779.4	2050.9	2316.7	2550.7	2932.0	3142.8	3362.4	3709.0	3703.2
1271.0	57.5°	1346.1	1643.6	1894.9	2117.4	2420.7	2680.7	2856.9	3171.7	3212.2
869.5	60°	996.6	1224.8	1496.3	1744.7	1984.5	2253.1	2371.6	2680.7	2698.0
595.1	62.5°	678.8	930.1	1195.9	1421.2	1600.3	1877.6	1984.5	2238.7	2270.5
381.3	65°	470.8	632.6	935.9	1097.7	1317.2	1554.1	1661.0	1863.2	1926.7
219.5	67.5°	312.0	450.6	730.8	878.1	1094.8	1256.6	1392.3	1557.0	1626.3
138.7	70°	170.4	332.2	522.8	693.3	881.0	1037.0	1169.9	1302.8	1363.4
63.6	72.5°	115.5	222.4	364.0	548.8	710.6	863.7	982.1	1080.4	1083.2
37.6	75°	57.8	150.2	277.3	424.6	554.6	704.8	811.7	869.5	800.2
23.1	77.5°	34.7	109.8	225.3	340.9	450.6	569.1	629.7	661.5	548.8
17.3	80°	20.2	78.0	176.2	271.5	312.0	418.9	476.6	485.3	366.9
11.6	82.5°	14.4	57.8	138.7	199.3	190.7	294.6	358.2	346.6	234.0
8.7	85°	8.7	40.4	86.7	124.2	115.5	193.5	208.0	213.8	135.8
5.8	87.5°	5.8	23.1	46.2	66.4	54.9	83.8	83.8	101.1	66.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
15610.2
<i>15223.1</i>
15286.7
15101.8
14847.6
14535.6
14168.8
13729.7
13143.3
12574.2
11860.8
11225.3
10474.2
9752.0
8954.8
8330.8
7553.8
6869.2
6190.4
5534.6
4910.7
4315.6
3717.7
3194.8
2724.0
2276.2
1912.3
1617.6
1340.3
1057.2
748.2
528.6
343.7
216.6
124.2
57.8
0.0

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