

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: P638083

Luminaire Tested: **IFLD-S-SA6C-727-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638083  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

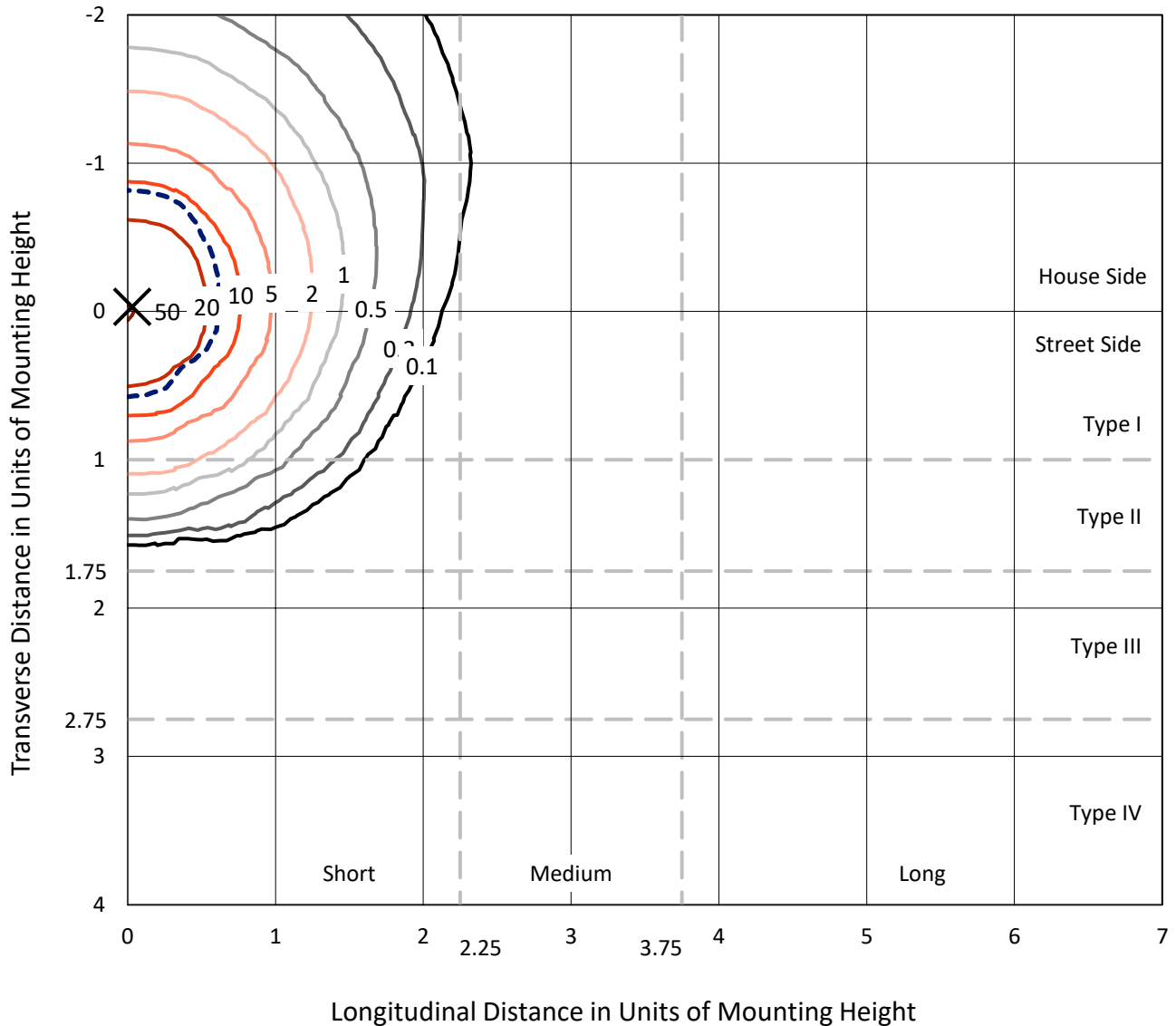
Lumens per Lamp: N/A  
Luminaire Lumens: 26729 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

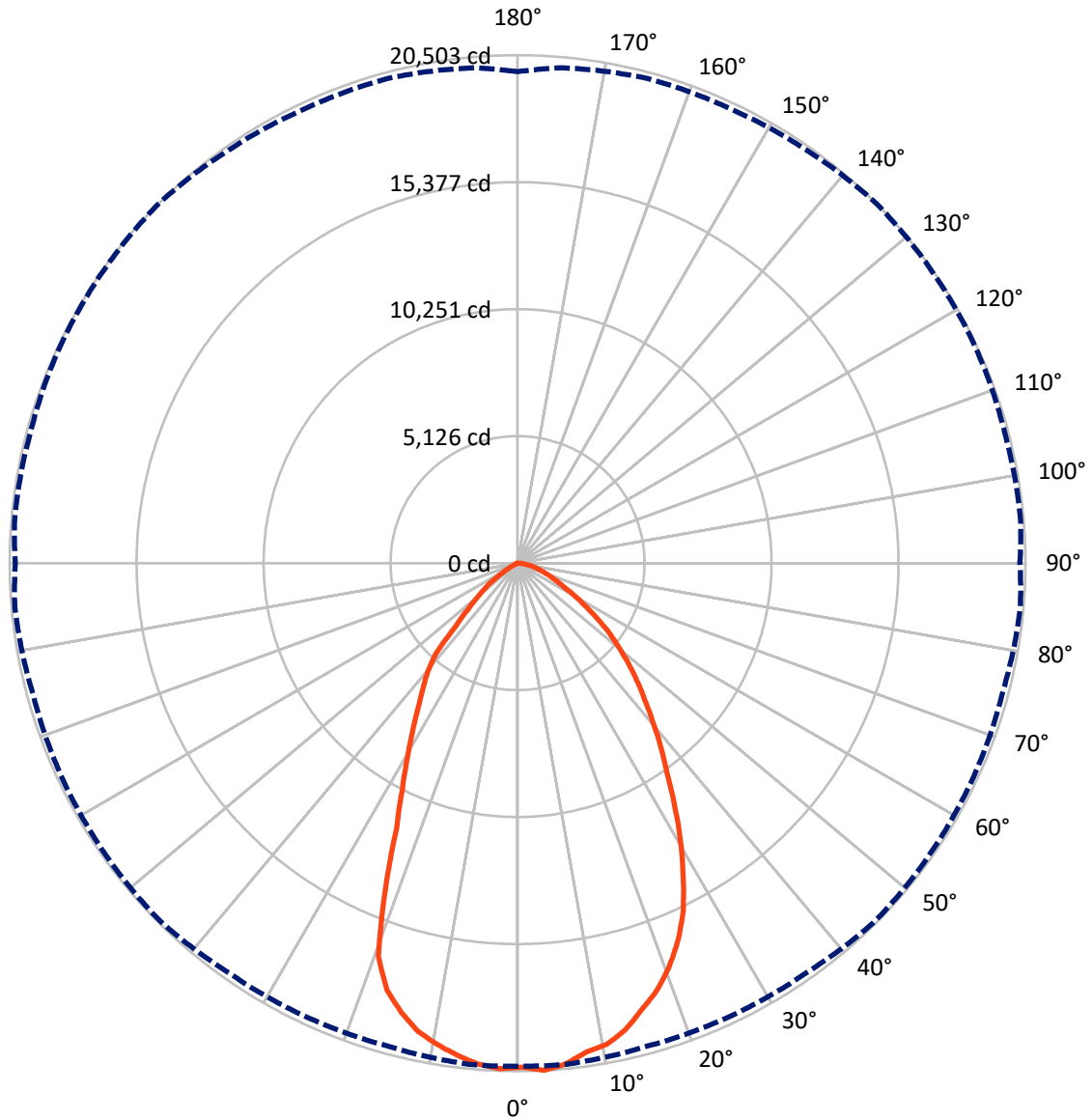
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 50.9 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	15830.3	0.0	15830.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	10898.7	0.0	10898.7
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	26729.0	0.0	26729.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1907.6	7.1
10°-20°	5115.4	19.1
20°-30°	6238.6	23.3
30°-40°	5695.7	21.3
40°-50°	4116.2	15.4
50°-60°	2247.5	8.4
60°-70°	929.3	3.5
70°-80°	376.4	1.4
80°-90°	102.4	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°	26729.0	100.0
0°-180°	26729.0	100.0



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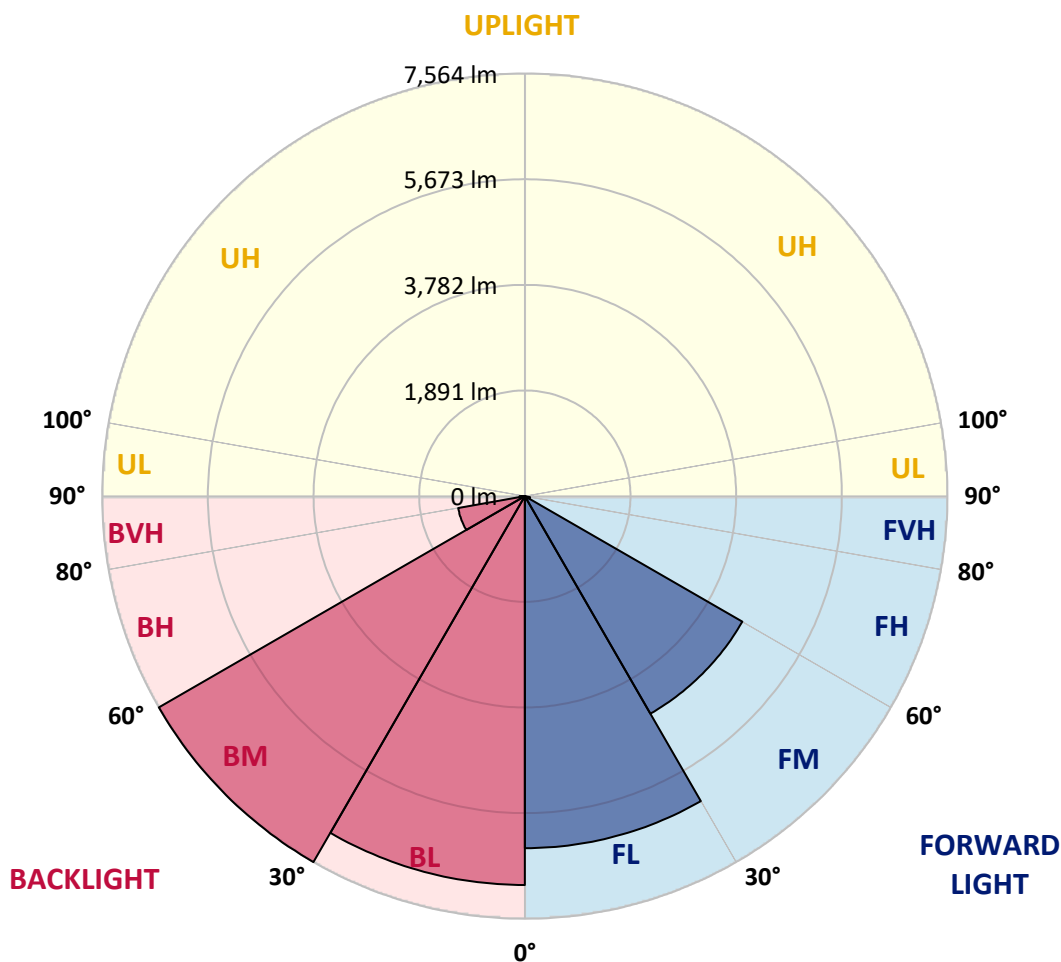
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6301.0	23.6			
FM (30°-60°)	4495.3	16.8			
FH (60°-80°)	94.2	0.4			G0/660
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	6960.6	26.0	B5		
BM (30°-60°)	7564.1	28.3	B4/8500		
BH (60°-80°)	1211.4	4.5	B3/2500		G3/2500
BVH (80°-90°)	94.2	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7
2.5°	20303.0	20329.4	20186.4	20201.4	20227.8	20419.7	20370.8	20325.6	20261.6	20370.8
5°	20276.7	20291.7	20141.2	20088.5	20111.1	20284.2	20126.1	20126.1	20111.1	20092.3
7.5°	20073.4	20081.0	19964.3	19870.2	19930.4	20009.4	19892.8	19949.2	19866.4	19930.4
10°	19768.5	19719.6	19580.3	19554.0	19621.8	19697.0	19618.0	19670.7	19595.4	19644.3
12.5°	19320.6	19245.4	19132.4	19098.6	19215.2	19316.9	19252.9	19222.8	19124.9	19245.4
15°	17593.0	17536.5	17792.4	18240.4	18643.1	18729.7	18661.9	18692.0	18488.8	18522.7
17.5°	14480.1	14374.7	14649.5	15711.0	17224.1	18022.1	17961.8	17766.1	17465.0	17532.7
20°	13159.0	13128.8	13098.7	13350.9	14408.6	16828.9	16911.7	16414.8	15985.7	15891.6
22.5°	12413.7	12402.4	12372.3	12428.7	12707.3	14261.8	15210.3	14751.1	14465.1	14438.7
25°	11732.4	11713.6	11623.2	11694.8	11694.8	11785.1	13000.9	13279.4	13027.2	12997.1
27.5°	11039.8	11005.9	10990.9	11024.8	10851.6	10241.9	10550.5	11909.3	11777.6	11785.1
30°	10290.8	10279.5	10238.1	10309.6	9775.1	9018.6	8822.8	10667.2	10693.5	10686.0
32.5°	9176.6	9225.6	9413.8	9492.8	8612.0	7987.2	7659.7	9229.3	9767.6	9756.3
35°	6666.1	6666.1	7279.6	8420.1	7546.8	7076.3	6899.4	7825.4	8852.9	8890.6
37.5°	5480.4	5499.2	5619.7	6139.1	6511.7	6346.1	6293.4	6587.0	7678.6	7738.8
40°	4930.8	4930.8	4930.8	4716.3	4705.0	5717.5	5687.4	5593.3	6632.2	6763.9
42.5°	4430.2	4441.5	4449.1	3907.0	3605.9	4942.1	4874.4	4731.4	5694.9	5849.3
45°	3914.6	3933.4	3956.0	3267.2	3135.4	3557.0	4125.3	3967.3	4769.0	4968.5
47.5°	2390.1	2420.3	2932.2	2770.3	2785.4	2744.0	3365.0	3338.7	3910.8	4193.1
50°	1614.8	1626.0	1675.0	1757.8	2390.1	2156.8	2382.6	2762.8	2969.8	3398.9
52.5°	1355.0	1373.9	1253.4	1140.5	1569.6	1686.3	1663.7	2051.4	2134.2	2664.9
55°	952.3	1012.5	956.1	944.8	892.1	1309.9	1260.9	1577.1	1629.8	2025.0
57.5°	97.9	112.9	195.7	703.9	583.4	741.5	899.6	1155.5	1208.2	1494.3
60°	7.5	7.5	18.8	97.9	425.3	444.2	621.1	711.4	813.0	1042.6
62.5°	0.0	3.8	7.5	15.1	67.8	237.1	312.4	372.6	489.3	673.8
65°	0.0	0.0	3.8	11.3	15.1	90.3	120.4	195.7	267.2	417.8
67.5°	0.0	0.0	3.8	7.5	11.3	22.6	41.4	71.5	143.0	237.1
70°	0.0	0.0	3.8	7.5	11.3	18.8	30.1	45.2	64.0	128.0
72.5°	0.0	0.0	3.8	3.8	7.5	18.8	22.6	30.1	45.2	64.0
75°	0.0	0.0	3.8	3.8	11.3	22.6	18.8	22.6	30.1	41.4
77.5°	0.0	0.0	3.8	7.5	11.3	22.6	18.8	22.6	22.6	26.3
80°	0.0	0.0	3.8	7.5	15.1	26.3	22.6	22.6	18.8	18.8
82.5°	0.0	0.0	3.8	11.3	15.1	33.9	33.9	30.1	15.1	11.3
85°	0.0	0.0	7.5	15.1	22.6	37.6	37.6	30.1	11.3	7.5
87.5°	0.0	0.0	7.5	11.3	18.8	26.3	37.6	30.1	11.3	3.8
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°
20340.7	0°	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7	20340.7
20276.7	2.5°	20378.3	20355.7	20431.0	20461.1	20502.5	20344.4	20246.6	20250.3	20069.7
20047.1	5°	20167.5	20171.3	20269.2	20261.6	20303.0	20216.5	20178.8	20114.8	19956.8
19757.3	7.5°	19900.3	19866.4	19960.5	20032.0	19926.6	19986.9	19900.3	19930.4	19836.3
19501.3	10°	19693.3	19614.2	19700.8	19749.7	19753.5	19693.3	19610.5	19531.4	19497.5
19102.3	12.5°	19234.1	19132.4	19279.2	19347.0	19335.7	19219.0	19124.9	19143.7	19034.6
18402.2	15°	18601.7	18605.5	18710.9	18774.9	18714.6	18688.3	18695.8	18650.6	18556.5
17434.9	17.5°	17634.4	17690.8	17969.4	18123.7	18157.6	18104.9	18078.5	18025.8	17931.7
15891.6	20°	16023.4	16362.1	16859.0	17337.0	17431.1	17416.0	17321.9	17299.4	17246.7
14363.4	22.5°	14608.1	14860.3	15436.2	16181.5	16565.4	16603.0	16490.1	16456.2	16399.8
12997.1	25°	13143.9	13414.9	13934.3	14743.6	15537.8	15699.7	15680.8	15579.2	15519.0
11785.1	27.5°	11909.3	12180.3	12650.8	13381.0	14231.7	14751.1	14800.1	14638.2	14634.4
10704.8	30°	10795.2	11167.8	11525.4	12120.1	12944.4	13723.6	13806.4	13693.4	13704.7
9714.9	32.5°	9921.9	10230.6	10535.4	10934.4	11619.5	12526.6	12850.3	12744.9	12703.5
8890.6	35°	9029.8	9240.6	9553.0	9918.2	10384.9	11284.5	11845.3	11766.3	11724.9
7776.4	37.5°	8013.6	8374.9	8600.7	9011.0	9376.1	10091.3	10881.7	10870.4	10783.9
6827.9	40°	6970.9	7351.1	7693.6	8107.7	8390.0	8958.3	9835.3	9831.6	9842.9
5845.5	42.5°	6026.2	6376.2	6790.3	7241.9	7513.0	7927.0	8868.0	8920.7	8984.7
5036.2	45°	5171.7	5487.9	5871.8	6421.4	6748.9	6986.0	7821.6	8062.5	8058.7
4313.5	47.5°	4403.9	4701.2	5024.9	5559.4	5977.2	6191.8	6884.4	7226.9	7204.3
3538.2	50°	3696.3	3959.7	4298.5	4686.2	5247.0	5435.2	5950.9	6402.6	6368.7
2819.2	52.5°	2973.6	3338.7	3624.7	3978.6	4569.5	4753.9	5152.9	5593.3	5567.0
2115.4	55°	2318.6	2672.4	3018.7	3323.6	3820.5	4095.2	4381.3	4833.0	4825.5
1656.2	57.5°	1754.0	2141.7	2469.2	2759.0	3154.2	3493.0	3722.6	4132.9	4185.6
1133.0	60°	1298.6	1595.9	1949.8	2273.5	2585.9	2935.9	3090.2	3493.0	3515.6
775.4	62.5°	884.5	1212.0	1558.3	1851.9	2085.3	2446.6	2585.9	2917.1	2958.5
496.8	65°	613.5	824.3	1219.5	1430.3	1716.4	2025.0	2164.3	2427.8	2510.6
286.1	67.5°	406.5	587.2	952.3	1144.3	1426.6	1637.3	1814.3	2028.8	2119.1
180.7	70°	222.1	432.9	681.3	903.4	1148.0	1351.3	1524.4	1697.6	1776.6
82.8	72.5°	150.6	289.8	474.3	715.2	925.9	1125.4	1279.8	1407.7	1411.5
48.9	75°	75.3	195.7	361.3	553.3	722.7	918.4	1057.7	1133.0	1042.6
30.1	77.5°	45.2	143.0	293.6	444.2	587.2	741.5	820.6	862.0	715.2
22.6	80°	26.3	101.6	229.6	353.8	406.5	545.8	621.1	632.4	478.0
15.1	82.5°	18.8	75.3	180.7	259.7	248.4	383.9	466.7	451.7	304.9
11.3	85°	11.3	52.7	112.9	161.9	150.6	252.2	271.0	278.5	176.9
7.5	87.5°	7.5	30.1	60.2	86.6	71.5	109.2	109.2	131.7	86.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<hr/> 20340.7
19836.3
19919.1
19678.2
19347.0
18940.5
18462.4
17890.3
17126.2
16384.7
15455.0
14626.9
13648.3
12707.3
11668.4
10855.4
9842.9
8950.8
8066.3
7211.8
6398.8
5623.4
4844.3
4163.0
3549.5
2966.0
2491.8
2107.8
1746.5
1377.6
974.9
688.8
447.9
282.3
161.9
75.3
0.0

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