

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: P636832

Luminaire Tested: **IFLD-S-SA3D-950-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636832  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-950-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 5000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12954.3 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

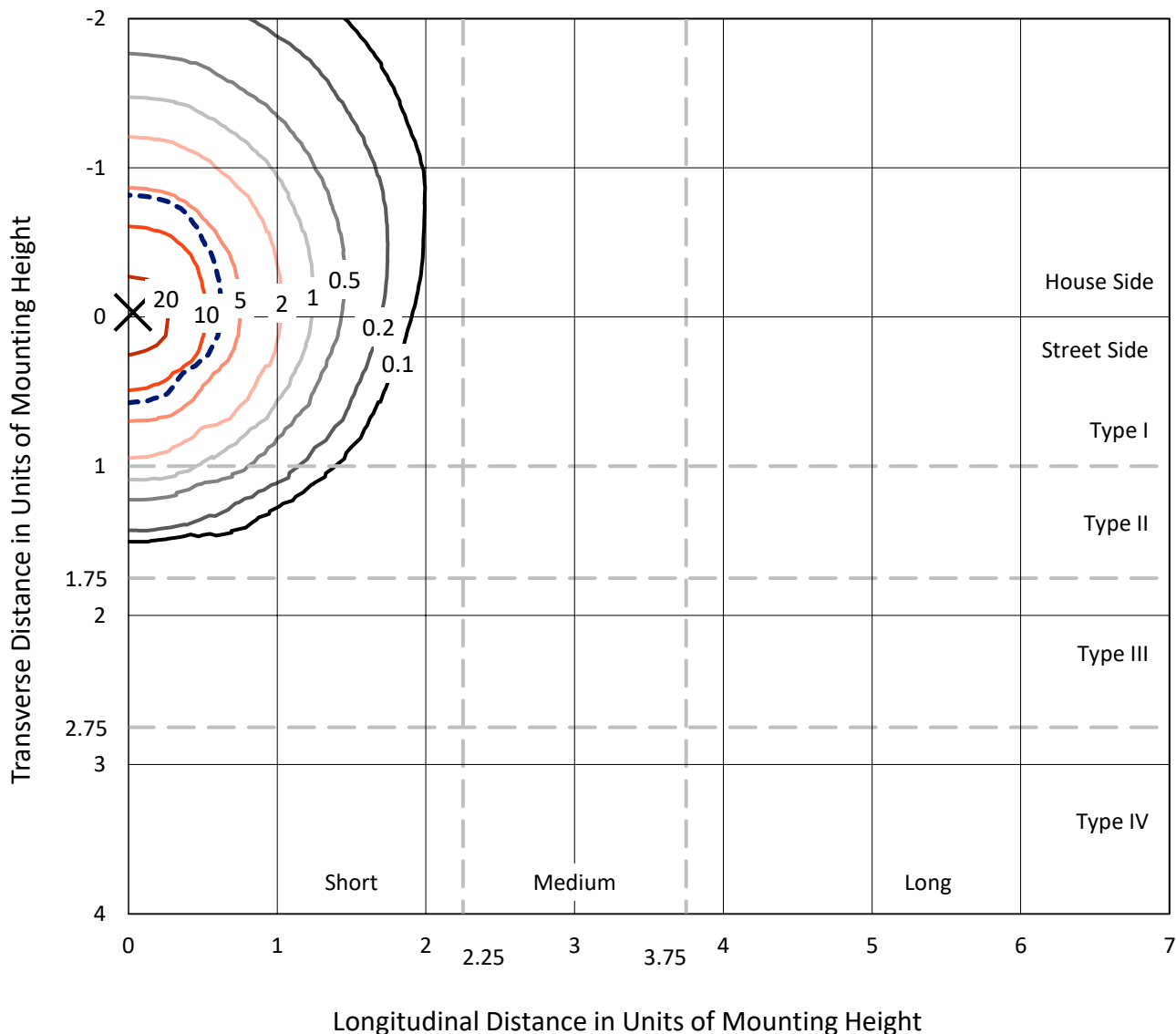
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

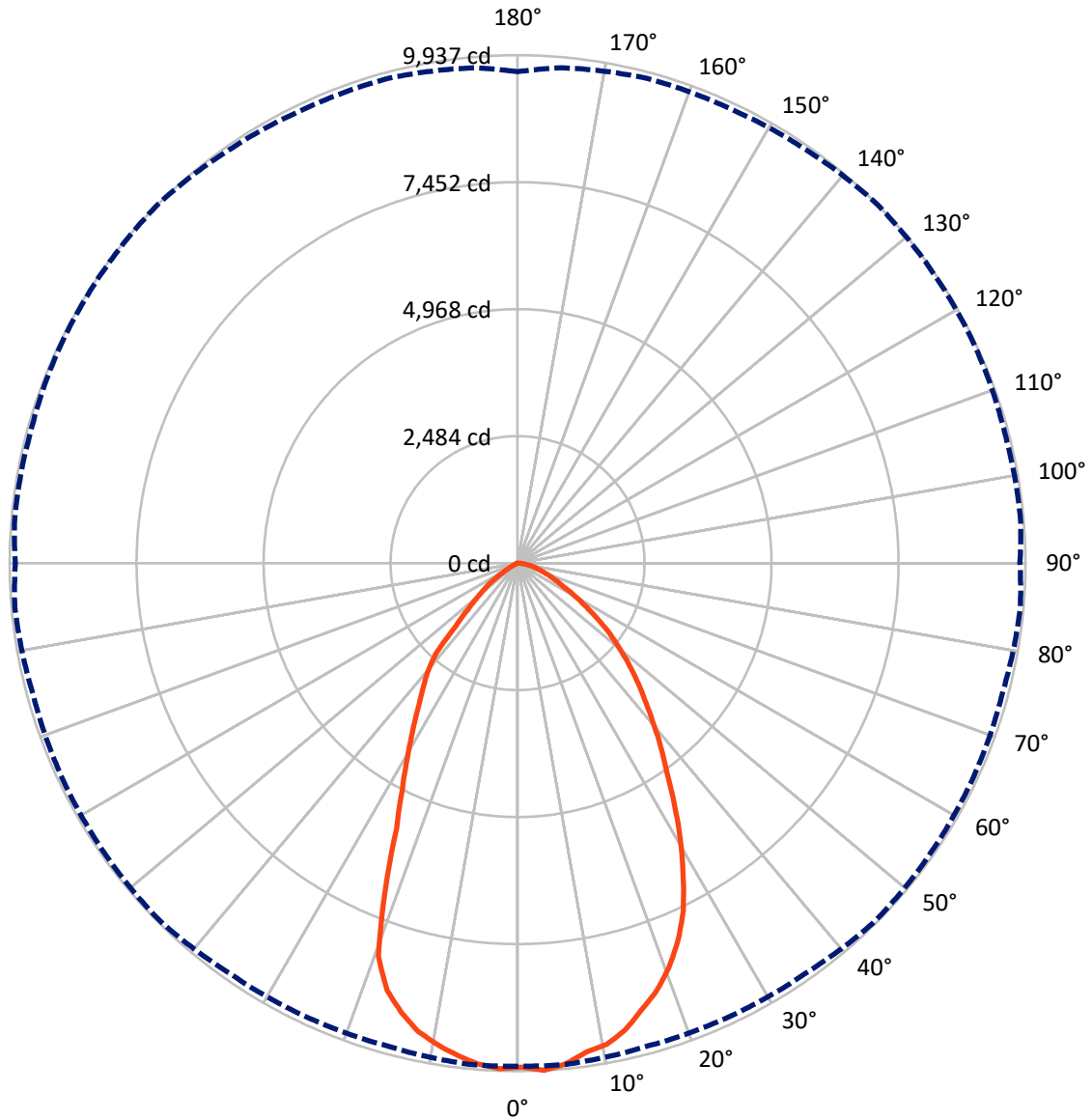
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.6 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
<b>House Side</b>	Lumens	7672.2	0.0	7672.2
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5282.1	0.0	5282.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	12954.3	0.0	12954.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	924.5	7.1
10°-20°	2479.2	19.1
20°-30°	3023.5	23.3
30°-40°	2760.5	21.3
40°-50°	1994.9	15.4
50°-60°	1089.2	8.4
60°-70°	450.4	3.5
70°-80°	182.4	1.4
80°-90°	49.6	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°	12954.3	100.0
0°-180°	12954.3	100.0



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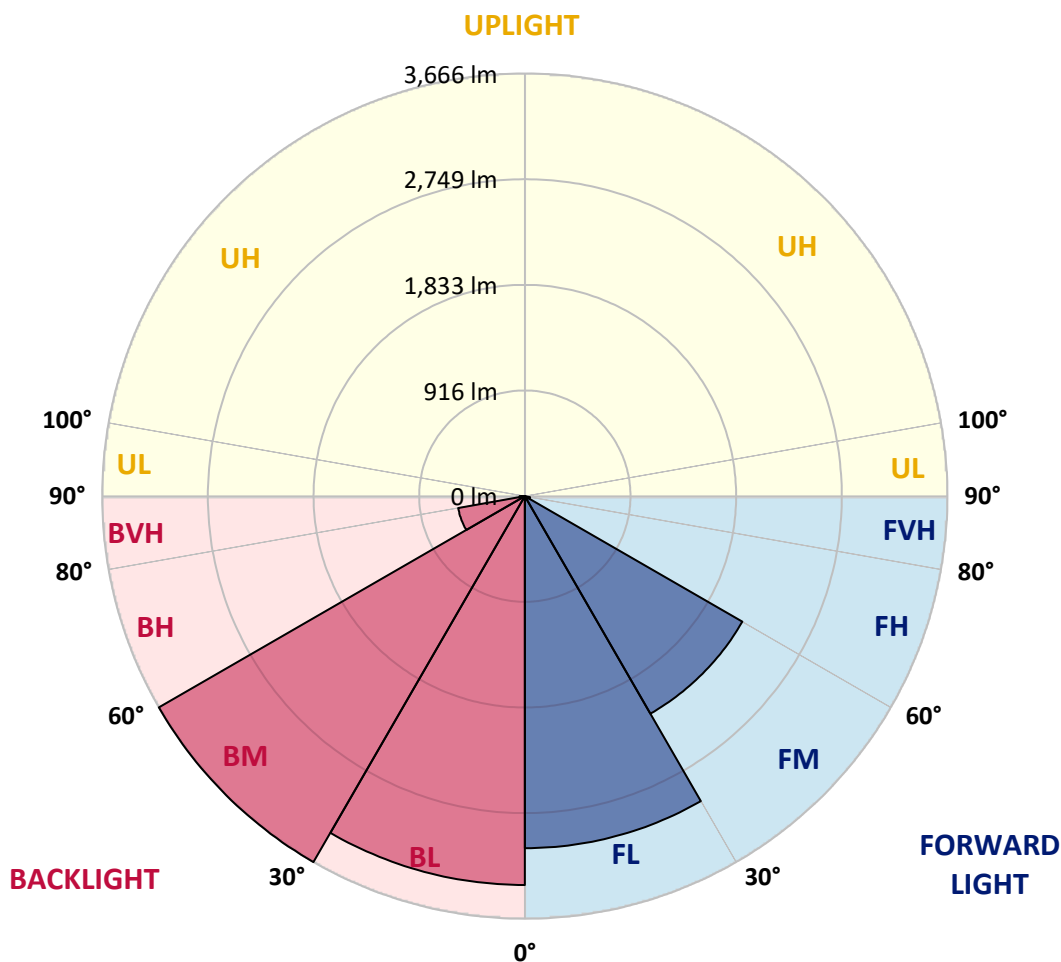
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3053.8	23.6			
FM (30°-60°)	2178.7	16.8			
FH (60°-80°)	45.6	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	3373.5	26.0	B4/5000		
BM (30°-60°)	3666.0	28.3	B3/5000		
BH (60°-80°)	587.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	45.6	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°	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2
2.5°	9840.0	9852.7	9783.4	9790.7	9803.5	9896.5	9872.8	9850.9	9819.9	9872.8
5°	9827.2	9834.5	9761.5	9736.0	9746.9	9830.8	9754.2	9754.2	9746.9	9737.8
7.5°	9728.7	9732.3	9675.8	9630.2	9659.4	9697.7	9641.1	9668.5	9628.3	9659.4
10°	9580.9	9557.2	9489.7	9476.9	9509.8	9546.3	9507.9	9533.5	9497.0	9520.7
12.5°	9363.8	9327.3	9272.6	9256.2	9312.8	9362.0	9331.0	9316.4	9269.0	9327.3
15°	8526.5	8499.1	8623.2	8840.3	9035.5	9077.4	9044.6	9059.2	8960.7	8977.1
17.5°	7017.9	6966.8	7100.0	7614.4	8347.7	8734.5	8705.3	8610.4	8464.5	8497.3
20°	6377.6	6363.0	6348.4	6470.6	6983.2	8156.2	8196.3	7955.5	7747.6	7702.0
22.5°	6016.4	6010.9	5996.3	6023.6	6158.6	6912.1	7371.8	7149.2	7010.6	6997.8
25°	5686.2	5677.0	5633.3	5667.9	5667.9	5711.7	6300.9	6435.9	6313.7	6299.1
27.5°	5350.5	5334.1	5326.8	5343.2	5259.3	4963.8	5113.4	5771.9	5708.1	5711.7
30°	4987.5	4982.0	4961.9	4996.6	4737.6	4370.9	4276.0	5169.9	5182.7	5179.0
32.5°	4447.5	4471.2	4562.4	4600.7	4173.9	3871.0	3712.3	4473.0	4733.9	4728.4
35°	3230.7	3230.7	3528.1	4080.8	3657.6	3429.6	3343.8	3792.6	4290.6	4308.9
37.5°	2656.1	2665.2	2723.6	2975.3	3155.9	3075.7	3050.1	3192.4	3721.5	3750.6
40°	2389.8	2389.8	2389.8	2285.8	2280.3	2771.0	2756.4	2710.8	3214.3	3278.2
42.5°	2147.1	2152.6	2156.3	1893.6	1747.6	2395.2	2362.4	2293.1	2760.1	2834.9
45°	1897.2	1906.3	1917.3	1583.4	1519.6	1723.9	1999.4	1922.8	2311.3	2408.0
47.5°	1158.4	1173.0	1421.1	1342.6	1349.9	1329.9	1630.9	1618.1	1895.4	2032.2
50°	782.6	788.1	811.8	851.9	1158.4	1045.3	1154.7	1339.0	1439.3	1647.3
52.5°	656.7	665.8	607.5	552.7	760.7	817.3	806.3	994.2	1034.3	1291.6
55°	461.5	490.7	463.4	457.9	432.3	634.8	611.1	764.4	789.9	981.4
57.5°	47.4	54.7	94.9	341.1	282.8	359.4	436.0	560.0	585.6	724.2
60°	3.6	3.6	9.1	47.4	206.1	215.3	301.0	344.8	394.0	505.3
62.5°	0.0	1.8	3.6	7.3	32.8	114.9	151.4	180.6	237.2	326.5
65°	0.0	0.0	1.8	5.5	7.3	43.8	58.4	94.9	129.5	202.5
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	20.1	34.7	69.3	114.9
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	21.9	31.0	62.0
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	10.9	14.6	21.9	31.0
75°	0.0	0.0	1.8	1.8	5.5	10.9	9.1	10.9	14.6	20.1
77.5°	0.0	0.0	1.8	3.6	5.5	10.9	9.1	10.9	10.9	12.8
80°	0.0	0.0	1.8	3.6	7.3	12.8	10.9	10.9	9.1	9.1
82.5°	0.0	0.0	1.8	5.5	7.3	16.4	16.4	14.6	7.3	5.5
85°	0.0	0.0	3.6	7.3	10.9	18.2	18.2	14.6	5.5	3.6
87.5°	0.0	0.0	3.6	5.5	9.1	12.8	18.2	14.6	5.5	1.8
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°
9858.2	0°	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2	9858.2
9827.2	2.5°	9876.4	9865.5	9902.0	9916.6	9936.6	9860.0	9812.6	9814.4	9726.9
9715.9	5°	9774.3	9776.1	9823.5	9819.9	9840.0	9798.0	9779.8	9748.7	9672.1
9575.4	7.5°	9644.8	9628.3	9674.0	9708.6	9657.5	9686.7	9644.8	9659.4	9613.8
9451.4	10°	9544.4	9506.1	9548.1	9571.8	9573.6	9544.4	9504.3	9466.0	9449.6
9258.0	12.5°	9321.9	9272.6	9343.8	9376.6	9371.1	9314.6	9269.0	9278.1	9225.2
8918.7	15°	9015.4	9017.2	9068.3	9099.3	9070.1	9057.4	9061.0	9039.1	8993.5
8449.9	17.5°	8546.6	8573.9	8708.9	8783.7	8800.1	8774.6	8761.8	8736.3	8690.7
7702.0	20°	7765.8	7930.0	8170.8	8402.5	8448.1	8440.8	8395.2	8384.2	8358.7
6961.3	22.5°	7079.9	7202.1	7481.2	7842.4	8028.5	8046.7	7992.0	7975.6	7948.2
6299.1	25°	6370.3	6501.6	6753.3	7145.6	7530.5	7608.9	7599.8	7550.5	7521.4
5711.7	27.5°	5771.9	5903.2	6131.3	6485.2	6897.5	7149.2	7172.9	7094.5	7092.7
5188.1	30°	5231.9	5412.5	5585.8	5874.1	6273.6	6651.2	6691.3	6636.6	6642.1
4708.4	32.5°	4808.7	4958.3	5106.1	5299.4	5631.4	6071.1	6228.0	6176.9	6156.8
4308.9	35°	4376.4	4478.5	4629.9	4806.9	5033.1	5469.1	5740.9	5702.6	5682.5
3768.9	37.5°	3883.8	4058.9	4168.4	4367.2	4544.2	4890.8	5273.9	5268.4	5226.5
3309.2	40°	3378.5	3562.7	3728.8	3929.4	4066.2	4341.7	4766.7	4764.9	4770.4
2833.0	42.5°	2920.6	3090.3	3290.9	3509.8	3641.2	3841.9	4297.9	4323.5	4354.5
2440.8	45°	2506.5	2659.7	2845.8	3112.2	3270.9	3385.8	3790.8	3907.5	3905.7
2090.6	47.5°	2134.4	2278.5	2435.4	2694.4	2896.9	3000.9	3336.5	3502.5	3491.6
1714.8	50°	1791.4	1919.1	2083.3	2271.2	2543.0	2634.2	2884.1	3103.0	3086.6
1366.4	52.5°	1441.2	1618.1	1756.7	1928.2	2214.6	2304.0	2497.4	2710.8	2698.1
1025.2	55°	1123.7	1295.2	1463.0	1610.8	1851.6	1984.8	2123.4	2342.3	2338.7
802.7	57.5°	850.1	1038.0	1196.7	1337.2	1528.7	1692.9	1804.2	2003.0	2028.6
549.1	60°	629.4	773.5	945.0	1101.8	1253.3	1422.9	1497.7	1692.9	1703.8
375.8	62.5°	428.7	587.4	755.2	897.5	1010.6	1185.8	1253.3	1413.8	1433.9
240.8	65°	297.4	399.5	591.1	693.2	831.9	981.4	1048.9	1176.6	1216.8
138.6	67.5°	197.0	284.6	461.5	554.6	691.4	793.5	879.3	983.3	1027.0
87.6	70°	107.6	209.8	330.2	437.8	556.4	654.9	738.8	822.7	861.0
40.1	72.5°	73.0	140.5	229.9	346.6	448.8	545.4	620.2	682.3	684.1
23.7	75°	36.5	94.9	175.1	268.2	350.3	445.1	512.6	549.1	505.3
14.6	77.5°	21.9	69.3	142.3	215.3	284.6	359.4	397.7	417.8	346.6
10.9	80°	12.8	49.3	111.3	171.5	197.0	264.5	301.0	306.5	231.7
7.3	82.5°	9.1	36.5	87.6	125.9	120.4	186.1	226.2	218.9	147.8
5.5	85°	5.5	25.5	54.7	78.4	73.0	122.2	131.3	135.0	85.7
3.6	87.5°	3.6	14.6	29.2	42.0	34.7	52.9	52.9	63.8	42.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
9858.2
9613.8
9653.9
9537.1
9376.6
9179.6
8947.9
8670.6
8300.3
7940.9
7490.3
7089.0
6614.7
6158.6
5655.2
5261.1
4770.4
4338.0
3909.4
3495.2
3101.2
2725.4
2347.8
2017.6
1720.3
1437.5
1207.6
1021.6
846.4
667.7
472.5
333.8
217.1
136.8
78.4
36.5
0.0

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