

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: P638136

Luminaire Tested: **IFLD-S-SA3C-735-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638136  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16069.6 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

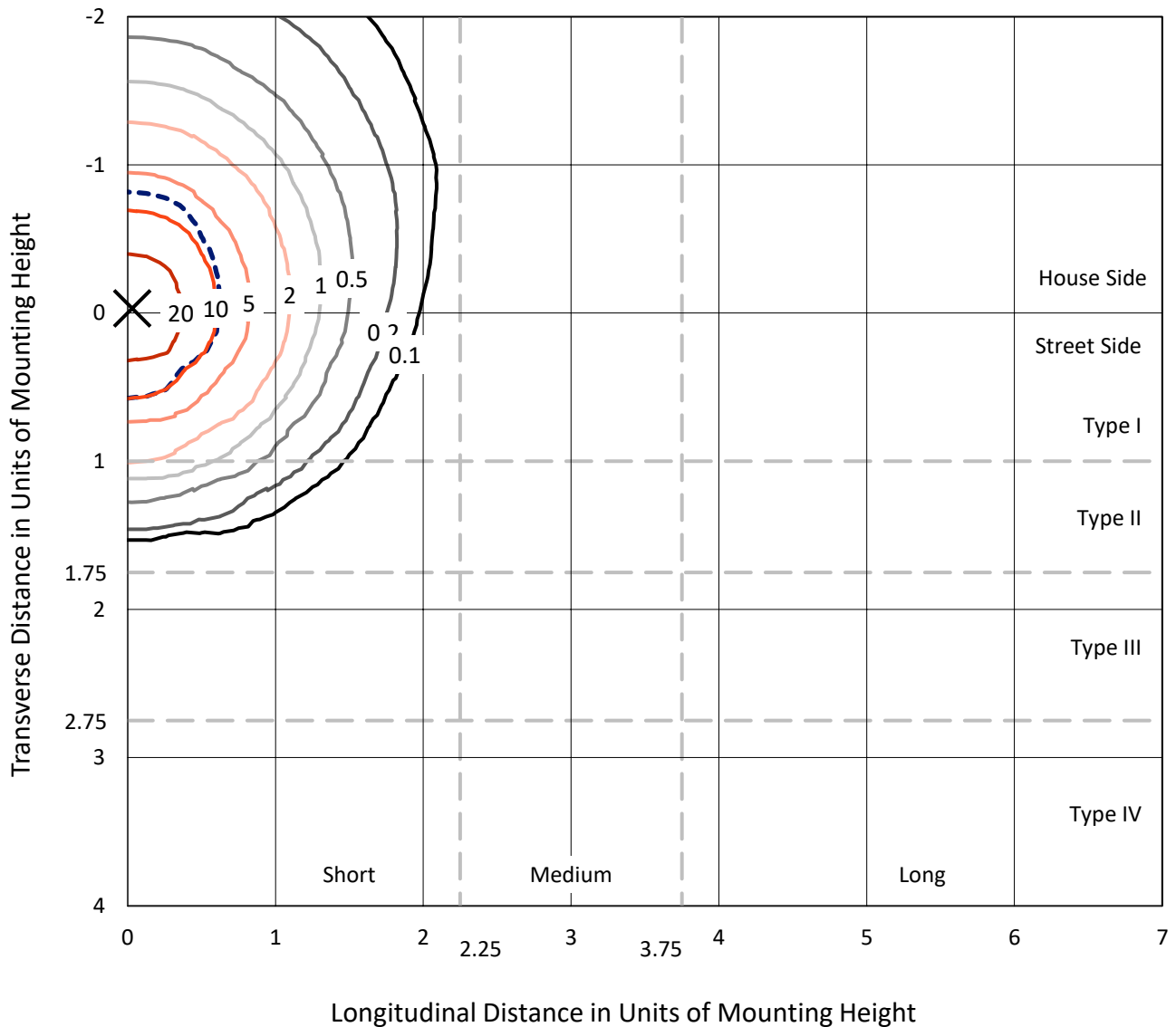
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

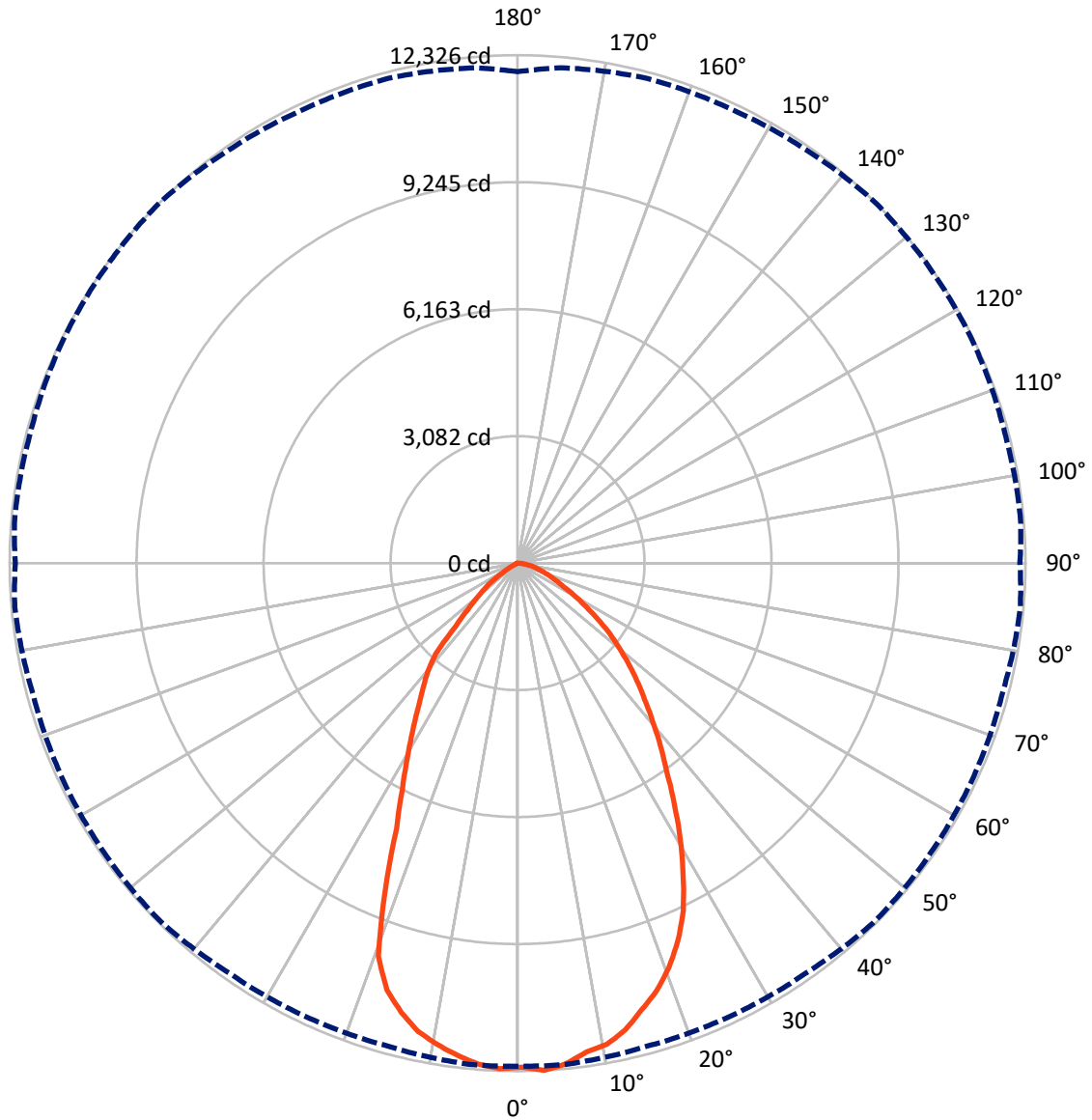
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.6 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	9517.3	0.0	9517.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	6552.4	0.0	6552.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	16069.6	0.0	16069.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1146.9	7.1
10°-20°	3075.4	19.1
20°-30°	3750.7	23.3
30°-40°	3424.3	21.3
40°-50°	2474.7	15.4
50°-60°	1351.2	8.4
60°-70°	558.7	3.5
70°-80°	226.3	1.4
80°-90°	61.5	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°	16069.6	100.0
0°-180°	16069.6	100.0



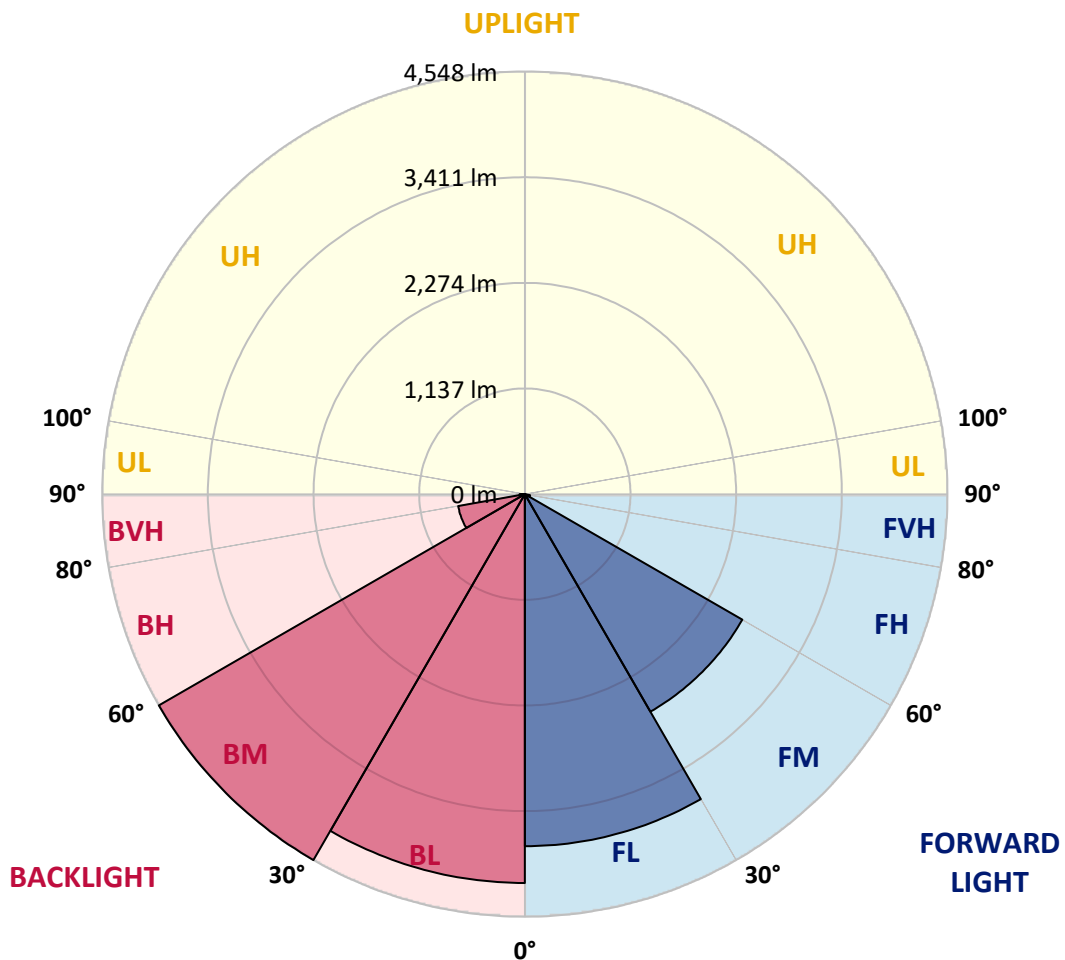
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3788.2	23.6			
FM (30°-60°)	2702.6	16.8			
FH (60°-80°)	56.6	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	4184.8	26.0	B4/5000		
BM (30°-60°)	4547.6	28.3	B3/5000		
BH (60°-80°)	728.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	56.6	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°	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9
2.5°	12206.3	12222.2	12136.2	12145.2	12161.1	12276.5	12247.0	12219.9	12181.4	12247.0
5°	12190.5	12199.5	12109.0	12077.3	12090.9	12195.0	12100.0	12100.0	12090.9	12079.6
7.5°	12068.3	12072.8	12002.6	11946.1	11982.3	12029.8	11959.7	11993.6	11943.8	11982.3
10°	11885.0	11855.6	11771.8	11756.0	11796.7	11842.0	11794.5	11826.1	11780.9	11810.3
12.5°	11615.7	11570.4	11502.5	11482.2	11552.3	11613.4	11575.0	11556.8	11498.0	11570.4
15°	10577.0	10543.0	10696.9	10966.2	11208.4	11260.4	11219.7	11237.8	11115.6	11135.9
17.5°	8705.5	8642.2	8807.4	9445.5	10355.2	10835.0	10798.8	10681.1	10500.1	10540.8
20°	7911.2	7893.1	7875.0	8026.7	8662.5	10117.6	10167.4	9868.7	9610.7	9554.1
22.5°	7463.2	7456.4	7438.3	7472.2	7639.7	8574.3	9144.6	8868.5	8696.5	8680.6
25°	7053.6	7042.3	6988.0	7031.0	7031.0	7085.3	7816.2	7983.7	7832.0	7813.9
27.5°	6637.2	6616.8	6607.8	6628.2	6524.1	6157.5	6343.0	7160.0	7080.7	7085.3
30°	6186.9	6180.1	6155.2	6198.2	5876.9	5422.0	5304.3	6413.2	6429.0	6424.5
32.5°	5517.1	5546.5	5659.6	5707.1	5177.6	4802.0	4605.1	5548.7	5872.3	5865.5
35°	4007.7	4007.7	4376.5	5062.2	4537.2	4254.3	4148.0	4704.7	5322.4	5345.1
37.5°	3294.8	3306.2	3378.6	3690.9	3914.9	3815.3	3783.6	3960.1	4616.4	4652.6
40°	2964.5	2964.5	2964.5	2835.5	2828.7	3437.4	3419.3	3362.7	3987.3	4066.5
42.5°	2663.5	2670.3	2674.8	2348.9	2167.9	2971.2	2930.5	2844.5	3423.8	3516.6
45°	2353.5	2364.8	2378.4	1964.2	1885.0	2138.5	2480.2	2385.1	2867.1	2987.1
47.5°	1437.0	1455.1	1762.8	1665.5	1674.6	1649.7	2023.1	2007.2	2351.2	2520.9
50°	970.8	977.6	1007.0	1056.8	1437.0	1296.7	1432.4	1661.0	1785.5	2043.4
52.5°	814.7	826.0	753.6	685.7	943.6	1013.8	1000.2	1233.3	1283.1	1602.2
55°	572.5	608.7	574.8	568.0	536.3	787.5	758.1	948.2	979.9	1217.5
57.5°	58.8	67.9	117.7	423.2	350.8	445.8	540.8	694.7	726.4	898.4
60°	4.5	4.5	11.3	58.8	255.7	267.0	373.4	427.7	488.8	626.8
62.5°	0.0	2.3	4.5	9.1	40.7	142.6	187.8	224.0	294.2	405.1
65°	0.0	0.0	2.3	6.8	9.1	54.3	72.4	117.7	160.7	251.2
67.5°	0.0	0.0	2.3	4.5	6.8	13.6	24.9	43.0	86.0	142.6
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.1	27.2	38.5	76.9
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	13.6	18.1	27.2	38.5
75°	0.0	0.0	2.3	2.3	6.8	13.6	11.3	13.6	18.1	24.9
77.5°	0.0	0.0	2.3	4.5	6.8	13.6	11.3	13.6	13.6	15.8
80°	0.0	0.0	2.3	4.5	9.1	15.8	13.6	13.6	11.3	11.3
82.5°	0.0	0.0	2.3	6.8	9.1	20.4	20.4	18.1	9.1	6.8
85°	0.0	0.0	4.5	9.1	13.6	22.6	22.6	18.1	6.8	4.5
87.5°	0.0	0.0	4.5	6.8	11.3	15.8	22.6	18.1	6.8	2.3
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°
12228.9	0°	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9	12228.9
12190.5	2.5°	12251.6	12238.0	12283.3	12301.4	12326.2	12231.2	12172.4	12174.6	12066.0
12052.4	5°	12124.8	12127.1	12185.9	12181.4	12206.3	12154.3	12131.6	12093.2	11998.1
11878.2	7.5°	11964.2	11943.8	12000.4	12043.4	11980.0	12016.2	11964.2	11982.3	11925.7
11724.3	10°	11839.7	11792.2	11844.2	11873.7	11875.9	11839.7	11789.9	11742.4	11722.0
11484.4	12.5°	11563.6	11502.5	11590.8	11631.5	11624.7	11554.6	11498.0	11509.3	11443.7
11063.5	15°	11183.5	11185.7	11249.1	11287.6	11251.4	11235.5	11240.0	11212.9	11156.3
10481.9	17.5°	10601.9	10635.8	10803.3	10896.1	10916.4	10884.8	10868.9	10837.2	10780.7
9554.1	20°	9633.3	9837.0	10135.7	10423.1	10479.7	10470.6	10414.1	10400.5	10368.8
8635.4	22.5°	8782.5	8934.1	9280.3	9728.4	9959.2	9981.8	9914.0	9893.6	9859.6
7813.9	25°	7902.2	8065.1	8377.4	8863.9	9341.4	9438.7	9427.4	9366.3	9330.1
7085.3	27.5°	7160.0	7322.9	7605.7	8044.8	8556.2	8868.5	8897.9	8800.6	8798.3
6435.8	30°	6490.1	6714.2	6929.1	7286.7	7782.3	8250.7	8300.5	8232.6	8239.4
5840.7	32.5°	5965.1	6150.7	6334.0	6573.8	6985.7	7531.1	7725.7	7662.3	7637.4
5345.1	35°	5428.8	5555.5	5743.3	5962.9	6243.5	6784.3	7121.5	7074.0	7049.1
4675.2	37.5°	4817.8	5035.0	5170.8	5417.5	5637.0	6066.9	6542.2	6535.4	6483.3
4105.0	40°	4191.0	4419.5	4625.5	4874.4	5044.1	5385.8	5913.1	5910.8	5917.6
3514.3	42.5°	3623.0	3833.4	4082.3	4353.9	4516.8	4765.8	5331.5	5363.2	5401.6
3027.8	45°	3109.3	3299.4	3530.2	3860.6	4057.5	4200.0	4702.4	4847.2	4845.0
2593.3	47.5°	2647.6	2826.4	3021.0	3342.4	3593.6	3722.5	4138.9	4344.8	4331.3
2127.2	50°	2222.2	2380.6	2584.3	2817.4	3154.5	3267.7	3577.7	3849.3	3828.9
1694.9	52.5°	1787.7	2007.2	2179.2	2391.9	2747.2	2858.1	3098.0	3362.7	3346.9
1271.8	55°	1394.0	1606.7	1814.9	1998.2	2296.9	2462.1	2634.1	2905.6	2901.1
995.7	57.5°	1054.5	1287.6	1484.5	1658.7	1896.3	2100.0	2238.1	2484.7	2516.4
681.1	60°	780.7	959.5	1172.2	1366.8	1554.6	1765.1	1857.9	2100.0	2113.6
466.2	62.5°	531.8	728.7	936.9	1113.4	1253.7	1470.9	1554.6	1753.8	1778.7
298.7	65°	368.9	495.6	733.2	859.9	1031.9	1217.5	1301.2	1459.6	1509.4
172.0	67.5°	244.4	353.0	572.5	687.9	857.7	984.4	1090.7	1219.7	1274.0
108.6	70°	133.5	260.2	409.6	543.1	690.2	812.4	916.5	1020.6	1068.1
49.8	72.5°	90.5	174.2	285.1	430.0	556.7	676.6	769.4	846.3	848.6
29.4	75°	45.3	117.7	217.2	332.7	434.5	552.2	635.9	681.1	626.8
18.1	77.5°	27.2	86.0	176.5	267.0	353.0	445.8	493.3	518.2	430.0
13.6	80°	15.8	61.1	138.0	212.7	244.4	328.1	373.4	380.2	287.4
9.1	82.5°	11.3	45.3	108.6	156.1	149.4	230.8	280.6	271.6	183.3
6.8	85°	6.8	31.7	67.9	97.3	90.5	151.6	162.9	167.5	106.4
4.5	87.5°	4.5	18.1	36.2	52.0	43.0	65.6	65.6	79.2	52.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
12228.9
11925.7
11975.5
11830.7
11631.5
11387.1
11099.7
10755.8
10296.4
9850.6
9291.6
8793.8
8205.4
7639.7
7015.1
6526.3
5917.6
5381.3
4849.5
4335.8
3847.0
3380.8
2912.4
2502.8
2134.0
1783.2
1498.1
1267.2
1050.0
828.2
586.1
414.1
269.3
169.7
97.3
45.3
0.0

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