

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: P637485

Luminaire Tested: **IFLD-L-SA7D-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34584 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

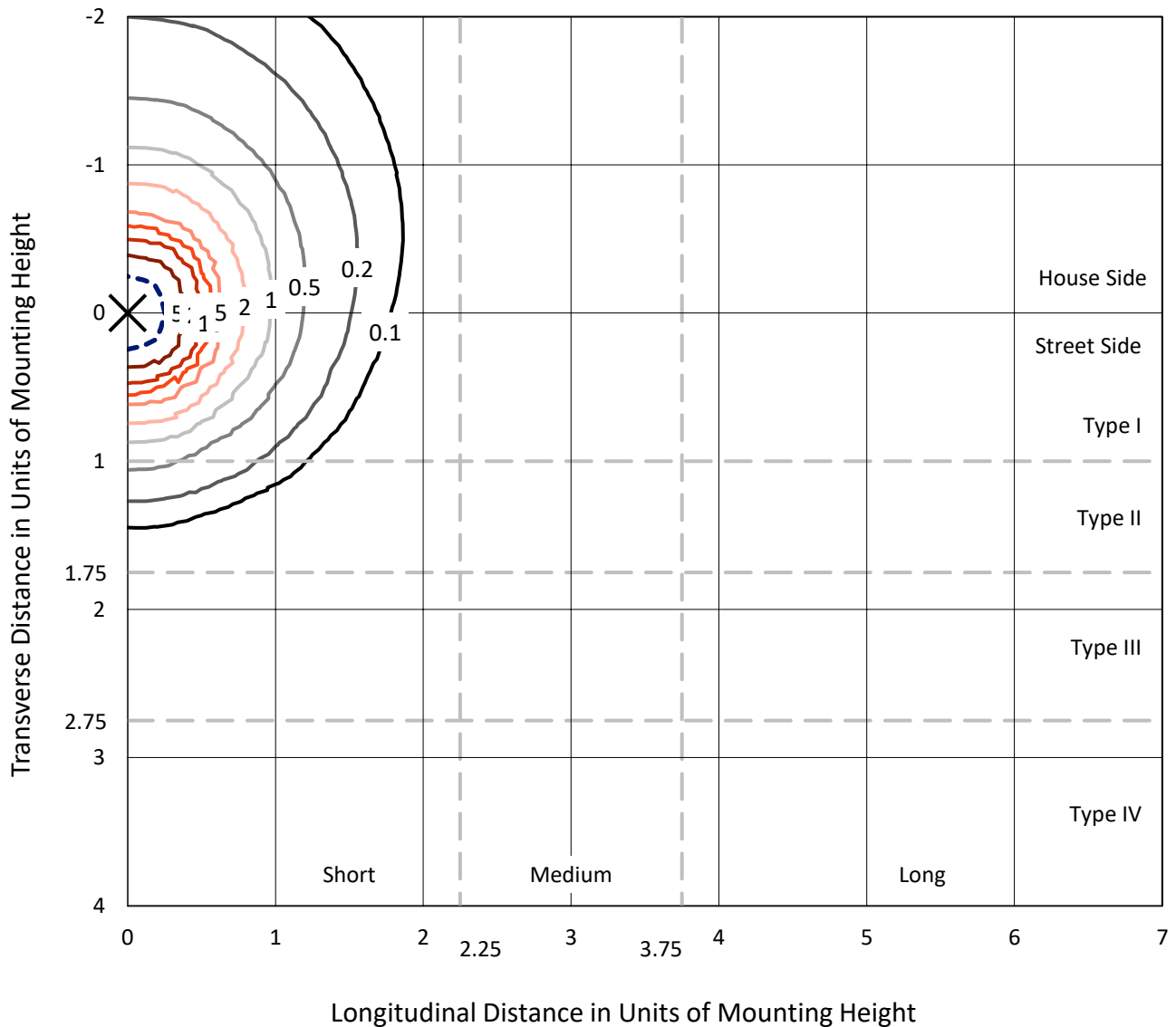
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

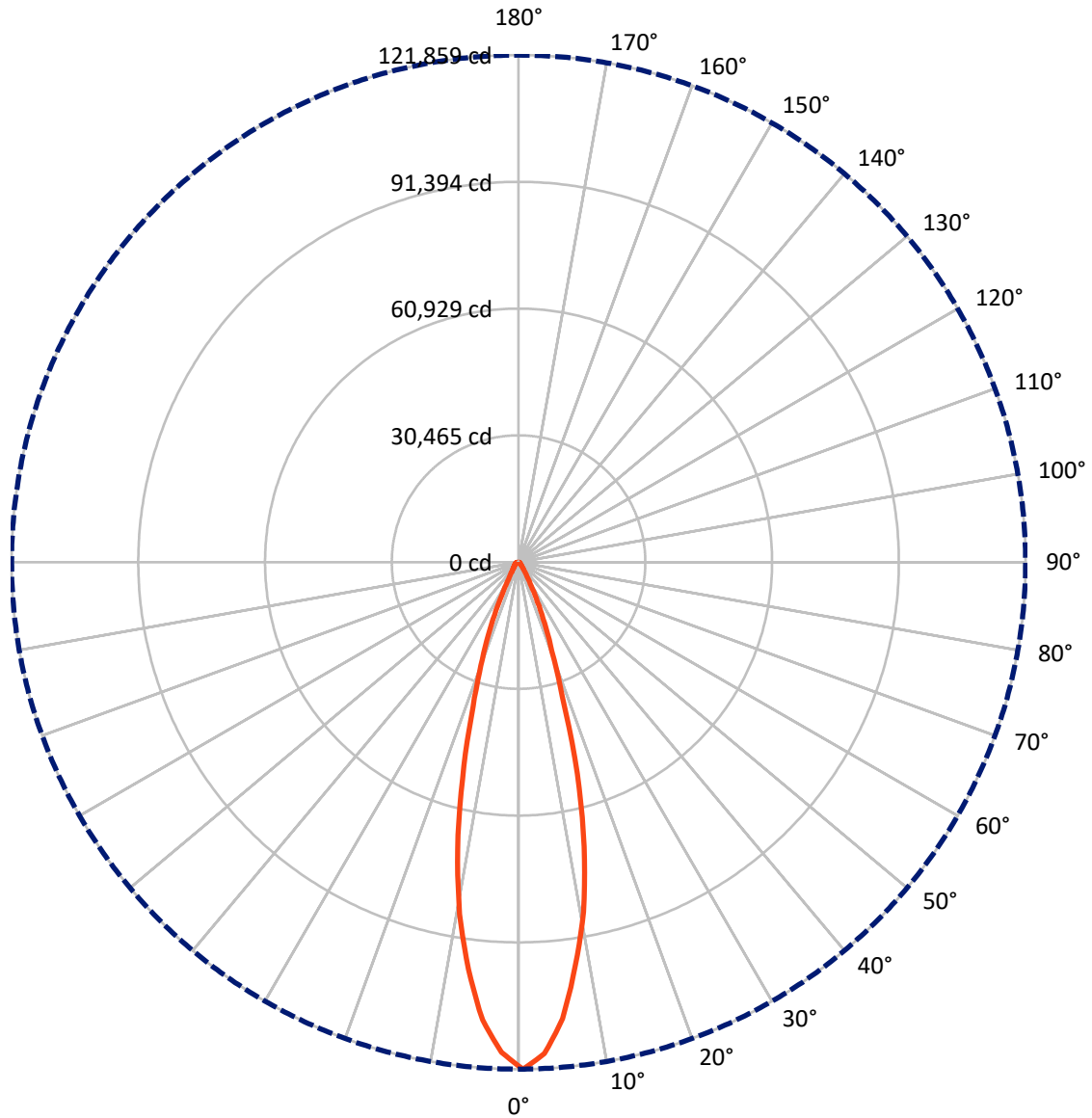
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 304.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18235.0	0.0	18235.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	16349.0	0.0	16349.0
	% Fixture	47.3	0.0	47.3
Total	Lumens	34584.0	0.0	34584.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9835.1	28.4
10°-20°	14895.2	43.1
20°-30°	6285.8	18.2
30°-40°	1639.4	4.7
40°-50°	829.2	2.4
50°-60°	542.0	1.6
60°-70°	324.7	0.9
70°-80°	170.8	0.5
80°-90°	61.7	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°	34584.0	100.0
0°-180°	34584.0	100.0



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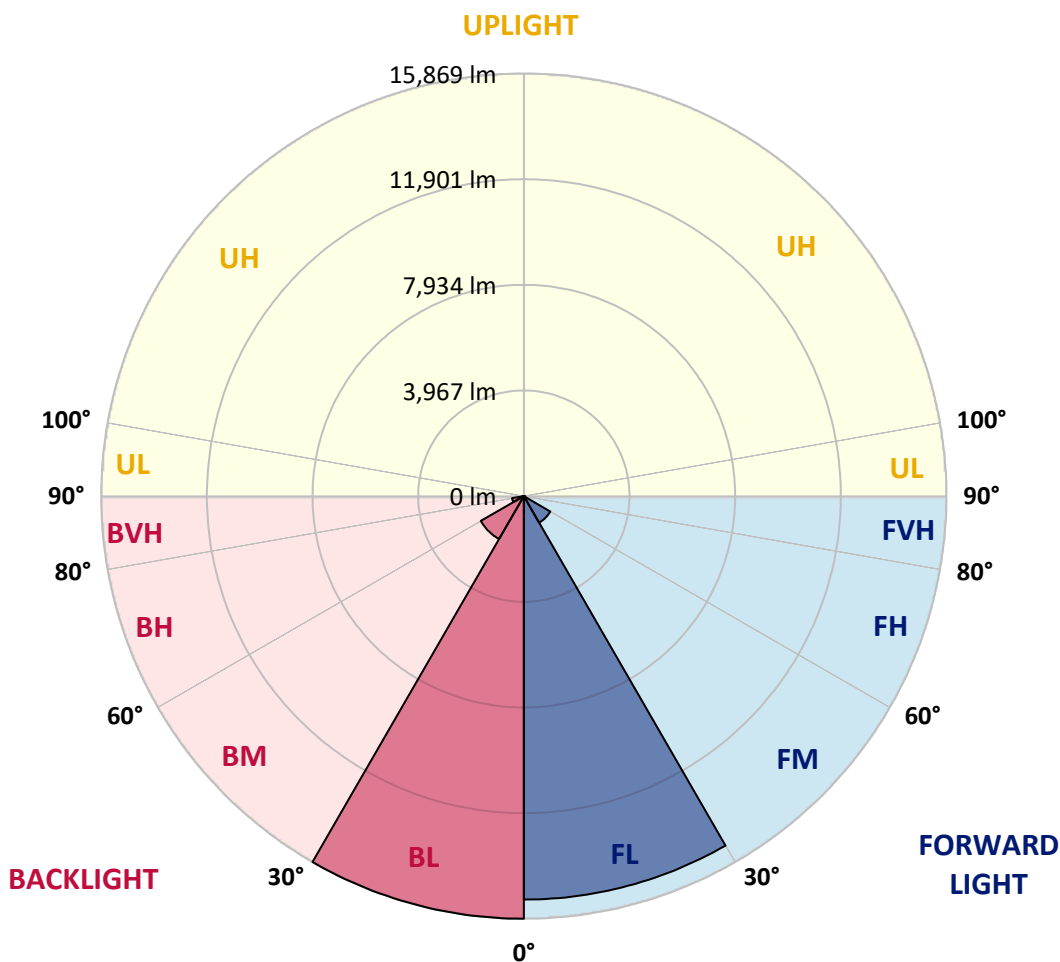
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15147.5	43.8			
FM (30°-60°)	1147.2	3.3			
FH (60°-80°)	46.8	0.1			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	15868.6	45.9	B5		
BM (30°-60°)	1863.4	5.4	B2/2500		
BH (60°-80°)	448.8	1.3	B1/500		G0/660
BVH (80°-90°)	54.2	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9
2.5°	118309.1	118375.1	118130.4	118658.6	118246.9	119349.9	118802.3	119656.7	119369.3	119847.0
5°	110230.7	110121.9	110052.0	110871.5	110634.6	111819.2	111061.8	110813.3	111582.3	111442.4
7.5°	98031.6	98319.0	98155.9	98369.5	98489.9	99841.5	100268.7	99934.7	99946.3	100140.5
10°	85525.7	85102.4	84500.4	84900.4	85747.1	86337.4	86100.5	86589.9	86481.1	86943.3
12.5°	70138.0	70472.0	70134.1	69776.8	71256.5	71093.4	71505.1	71773.1	71101.2	72596.4
15°	52831.7	53006.4	53418.1	53390.9	54528.9	54758.0	54703.7	54987.2	54462.9	54711.4
17.5°	33940.7	34531.1	35638.0	37510.0	39615.0	39859.7	39797.5	39564.5	39312.1	39032.4
20°	22798.0	22735.9	23135.9	23683.6	28041.2	29194.7	29159.8	28429.6	27373.2	27171.2
22.5°	15970.3	16086.8	16032.4	16576.2	17477.2	20658.1	20265.8	19524.0	19178.3	18953.1
25°	10505.7	10463.0	10734.9	10898.0	11670.9	12059.3	13434.1	13158.4	12626.3	12684.6
27.5°	6404.4	6458.8	6559.8	6699.6	7247.2	7122.9	7907.5	8012.3	7841.4	7658.9
30°	3930.4	3969.3	4050.8	4151.8	4342.1	4206.2	4423.7	4800.4	4738.3	4610.1
32.5°	2668.2	2672.1	2730.3	2769.2	2745.9	2617.7	2687.6	3044.9	3052.7	3041.0
35°	1918.6	1918.6	1973.0	2004.1	1938.0	1833.2	1844.8	2066.2	2163.3	2182.7
37.5°	1324.4	1328.3	1421.5	1514.7	1440.9	1413.7	1367.1	1514.7	1670.0	1693.3
40°	1005.9	1002.0	1048.6	1118.5	1126.3	1075.8	1091.4	1184.6	1343.8	1363.2
42.5°	815.6	819.5	842.8	835.0	838.9	904.9	928.2	971.0	1118.5	1153.5
45°	687.4	691.3	703.0	664.1	648.6	749.6	780.6	804.0	928.2	971.0
47.5°	567.0	574.8	586.5	543.7	536.0	602.0	656.4	679.7	788.4	835.0
50°	407.8	415.6	458.3	435.0	458.3	473.8	547.6	582.6	656.4	718.5
52.5°	295.2	302.9	314.6	318.5	376.7	384.5	438.9	493.2	528.2	598.1
55°	233.0	240.8	233.0	225.3	275.8	318.5	337.9	396.2	423.3	504.9
57.5°	132.1	139.8	151.5	174.8	182.5	244.7	264.1	314.6	337.9	415.6
60°	23.3	27.2	42.7	104.9	128.2	155.4	198.1	240.8	271.9	326.2
62.5°	3.9	3.9	7.8	23.3	73.8	108.7	143.7	170.9	198.1	248.6
65°	0.0	0.0	3.9	7.8	19.4	62.1	77.7	101.0	135.9	178.7
67.5°	0.0	0.0	3.9	7.8	11.7	23.3	35.0	62.1	77.7	120.4
70°	0.0	0.0	3.9	7.8	11.7	15.5	19.4	27.2	46.6	73.8
72.5°	0.0	0.0	3.9	7.8	11.7	15.5	19.4	23.3	23.3	46.6
75°	0.0	0.0	3.9	7.8	11.7	19.4	23.3	23.3	19.4	19.4
77.5°	0.0	0.0	3.9	7.8	15.5	23.3	27.2	23.3	15.5	15.5
80°	0.0	0.0	7.8	11.7	19.4	27.2	35.0	27.2	15.5	7.8
82.5°	0.0	0.0	7.8	15.5	19.4	31.1	42.7	35.0	15.5	7.8
85°	0.0	0.0	3.9	11.7	23.3	31.1	42.7	31.1	15.5	3.9
87.5°	0.0	0.0	3.9	3.9	7.8	11.7	23.3	19.4	7.8	3.9
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°
121858.9	0°	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9	121858.9
118942.1	2.5°	119625.7	120247.1	120375.2	120204.4	120452.9	120006.3	119664.5	118779.0	118246.9
111399.7	5°	112118.2	112025.0	112673.6	112887.2	112860.0	112518.3	112040.6	111504.6	110984.2
99763.8	7.5°	100385.2	100505.6	101095.9	101472.7	101282.4	100855.1	100525.0	100121.1	99771.6
87110.3	10°	87906.5	87079.2	87813.3	87813.3	88322.0	87114.2	87226.8	86209.2	86255.8
72569.3	12.5°	72817.8	73116.9	73237.3	73582.9	72988.7	72347.9	71563.3	71408.0	70922.5
54237.6	15°	55018.3	55872.7	55138.7	56393.1	55787.2	55119.2	54998.8	53794.8	54175.5
39339.3	17.5°	39145.1	40088.8	40384.0	41102.5	40551.0	40154.9	39653.8	39288.8	39261.6
27540.2	20°	27757.7	28705.3	28922.8	29785.0	29722.9	29598.6	29175.3	28713.1	28212.1
18747.2	22.5°	19030.7	19803.6	20526.0	21687.3	21667.9	21302.8	21260.1	20607.6	20619.2
12665.2	25°	12797.2	13360.4	13531.2	14719.7	14851.7	14812.9	14591.5	13985.7	14214.8
7736.6	27.5°	7744.3	8237.6	8816.3	9235.7	9631.9	9569.7	9348.4	9010.5	8862.9
4648.9	30°	4773.2	4994.6	5208.2	5713.1	5950.0	6074.3	5969.4	5654.8	5678.2
3060.5	32.5°	3126.5	3312.9	3468.3	3786.7	3911.0	4140.2	4097.4	4031.4	3953.7
2202.1	35°	2279.8	2415.7	2520.6	2668.2	2827.4	3021.6	3052.7	3025.5	2994.4
1701.1	37.5°	1740.0	1879.8	2000.2	2062.3	2186.6	2338.1	2423.5	2419.6	2396.3
1386.5	40°	1413.7	1518.6	1627.3	1708.9	1794.3	1907.0	2011.8	2023.5	2023.5
1165.1	42.5°	1180.7	1270.0	1378.8	1464.2	1526.3	1631.2	1740.0	1747.7	1740.0
986.5	45°	1009.8	1087.5	1192.3	1293.3	1343.8	1421.5	1526.3	1549.6	1534.1
846.7	47.5°	877.7	947.7	1037.0	1145.7	1200.1	1270.0	1367.1	1394.3	1390.4
730.2	50°	753.5	835.0	924.4	1013.7	1083.6	1149.6	1242.8	1273.9	1262.2
621.4	52.5°	664.1	737.9	815.6	912.7	994.3	1052.5	1126.3	1180.7	1165.1
524.3	55°	555.4	644.7	726.3	807.8	908.8	971.0	1040.9	1106.9	1091.4
442.8	57.5°	481.6	555.4	648.6	722.4	823.4	897.2	967.1	1037.0	1033.1
361.2	60°	403.9	481.6	570.9	648.6	741.8	823.4	893.3	971.0	978.7
271.9	62.5°	318.5	411.7	489.4	578.7	671.9	761.2	823.4	901.0	912.7
205.8	65°	240.8	337.9	423.3	508.8	602.0	699.1	753.5	819.5	831.1
151.5	67.5°	178.7	260.2	361.2	438.9	536.0	629.2	679.7	734.0	753.5
93.2	70°	135.9	198.1	302.9	376.7	477.7	551.5	605.9	652.5	668.0
62.1	72.5°	85.4	155.4	244.7	322.4	411.7	477.7	516.5	543.7	567.0
35.0	75°	58.3	120.4	198.1	275.8	341.8	392.3	427.2	450.5	469.9
15.5	77.5°	35.0	93.2	163.1	229.1	271.9	310.7	345.7	361.2	372.8
11.7	80°	19.4	69.9	135.9	186.4	213.6	240.8	268.0	287.4	295.2
7.8	82.5°	11.7	54.4	108.7	143.7	155.4	182.5	209.7	221.4	221.4
3.9	85°	7.8	38.8	73.8	104.9	112.6	132.1	139.8	147.6	155.4
3.9	87.5°	7.8	23.3	46.6	58.3	62.1	69.9	73.8	81.6	89.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
121858.9
117854.6
110401.6
98587.0
85801.4
70479.8
53794.8
38539.2
27994.6
20394.0
13853.6
8734.7
5577.2
3926.5
2982.8
2384.7
2000.2
1732.2
1534.1
1382.6
1254.5
1161.3
1099.1
1037.0
982.6
920.5
842.8
761.2
675.8
563.2
466.1
369.0
287.4
217.5
151.5
85.4
0.0

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