

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: P637854

Luminaire Tested: **IFLD-M-SA4A-730-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637854
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14179.8 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

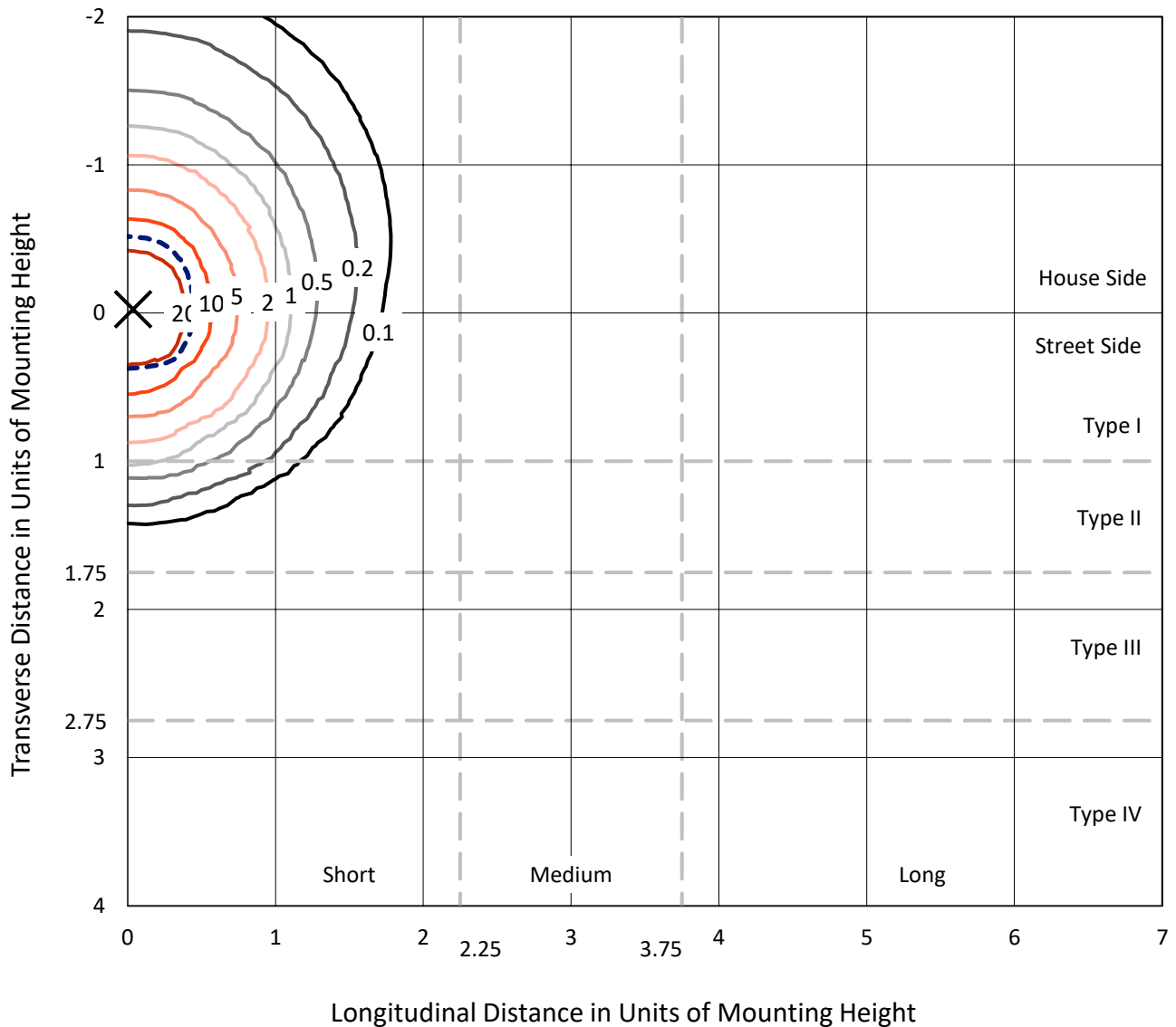
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

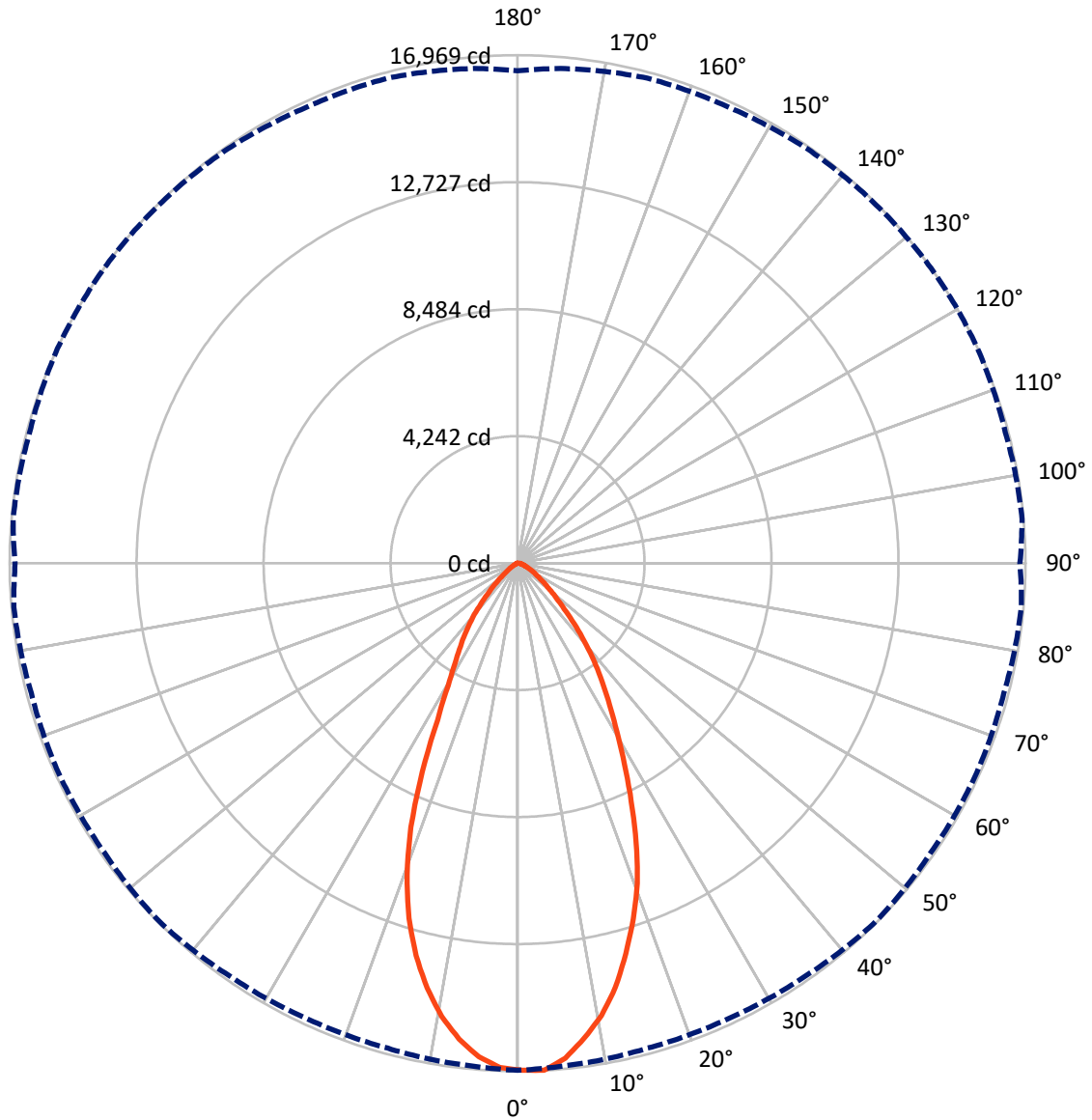
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8046.2	0.0	8046.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6133.6	0.0	6133.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	14179.8	0.0	14179.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1538.3	10.8
10°-20°	3667.1	25.9
20°-30°	3734.8	26.3
30°-40°	2785.1	19.6
40°-50°	1455.0	10.3
50°-60°	612.0	4.3
60°-70°	249.9	1.8
70°-80°	105.2	0.7
80°-90°	32.4	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°	14179.8	100.0
0°-180°	14179.8	100.0



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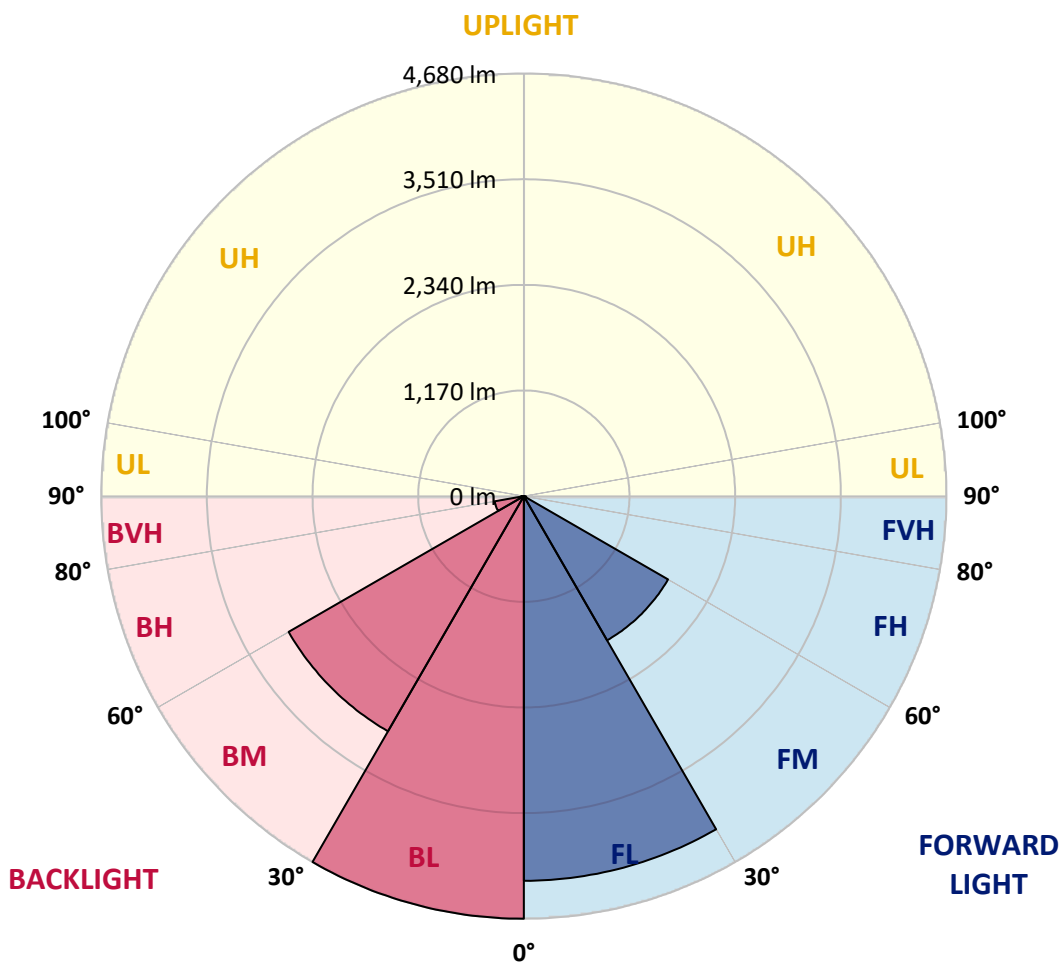
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4259.8	30.0			
FM (30°-60°)	1844.1	13.0			
FH (60°-80°)	26.7	0.2			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	4680.5	33.0	B4/5000		
BM (30°-60°)	3007.9	21.2	B3/5000		
BH (60°-80°)	328.4	2.3	B1/500		G1/500
BVH (80°-90°)	29.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4
2.5°	16943.2	16874.0	16775.7	16766.5	16817.5	16928.7	16857.6	16861.3	16817.5	16892.2
5°	16677.3	16611.7	16544.3	16455.1	16529.8	16577.1	16540.7	16500.6	16444.1	16517.0
7.5°	16174.6	16138.1	16038.0	15997.9	16043.4	16096.2	16017.9	16007.0	15928.7	16023.4
10°	15405.9	15391.3	15293.0	15269.3	15309.4	15389.5	15354.9	15347.6	15298.4	15289.3
12.5°	14608.1	14551.6	14429.6	14422.3	14482.4	14602.7	14509.8	14420.5	14447.8	14471.5
15°	12553.5	12493.4	12795.8	13271.2	13520.7	13511.6	13538.9	13431.5	13398.7	13409.6
17.5°	9979.8	9877.8	9987.1	10722.9	11908.7	12597.2	12407.8	12176.5	12052.6	11970.6
20°	8613.7	8619.2	8599.1	8788.5	9528.1	11098.2	11052.6	10606.4	10444.3	10376.9
22.5°	7783.1	7752.1	7708.4	7768.5	7967.1	8888.7	9506.2	9096.4	9039.9	8965.2
25°	6968.9	6968.9	6916.1	6976.2	7032.7	7045.4	7664.7	7832.3	7723.0	7723.0
27.5°	6264.0	6227.6	6203.9	6231.2	6156.5	5797.7	5876.0	6733.9	6659.3	6613.7
30°	5564.6	5553.6	5513.6	5550.0	5273.1	4868.8	4704.8	5683.0	5761.3	5744.9
32.5°	4593.7	4637.4	4815.9	4872.4	4398.8	4072.8	3916.1	4717.6	5030.9	5018.1
35°	3122.0	3158.4	3362.4	4036.4	3646.6	3413.4	3367.9	3752.2	4267.7	4316.9
37.5°	2486.3	2480.8	2539.1	2659.3	2930.7	2874.3	2861.5	2961.7	3480.8	3502.7
40°	2049.1	2041.9	2040.0	1941.7	1874.3	2389.8	2355.1	2295.0	2744.9	2788.7
42.5°	1652.1	1659.4	1664.8	1449.9	1351.5	1843.3	1823.3	1761.4	2153.0	2204.0
45°	1296.9	1295.1	1306.0	1080.1	1052.8	1178.5	1362.5	1313.3	1624.7	1679.4
47.5°	672.1	695.8	843.3	836.1	848.8	836.1	1030.9	1018.2	1222.2	1309.6
50°	451.7	459.0	471.8	473.6	668.5	615.7	699.4	792.3	856.1	990.9
52.5°	349.7	355.2	322.4	302.4	409.8	455.4	459.0	548.3	597.4	734.0
55°	194.9	218.6	235.0	236.8	225.9	337.0	335.1	406.2	444.4	535.5
57.5°	25.5	31.0	47.4	153.0	151.2	187.6	235.0	295.1	316.9	391.6
60°	1.8	3.6	5.5	23.7	100.2	109.3	160.3	184.0	220.4	275.0
62.5°	0.0	0.0	1.8	5.5	20.0	63.8	83.8	96.5	129.3	180.3
65°	0.0	0.0	1.8	3.6	7.3	23.7	32.8	52.8	76.5	111.1
67.5°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	23.7	40.1	67.4
70°	0.0	0.0	1.8	3.6	5.5	7.3	10.9	14.6	21.9	36.4
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	9.1	10.9	14.6	20.0
75°	0.0	0.0	1.8	3.6	5.5	9.1	9.1	9.1	10.9	12.8
77.5°	0.0	0.0	1.8	3.6	5.5	9.1	7.3	9.1	9.1	9.1
80°	0.0	0.0	1.8	3.6	5.5	9.1	10.9	9.1	7.3	7.3
82.5°	0.0	0.0	1.8	5.5	5.5	12.8	12.8	12.8	5.5	5.5
85°	0.0	0.0	3.6	5.5	9.1	14.6	14.6	10.9	5.5	3.6
87.5°	0.0	0.0	1.8	3.6	3.6	7.3	10.9	9.1	3.6	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°
16941.4	0°	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4	16941.4
16782.9	2.5°	16917.7	16872.2	16957.8	16968.7	16932.3	16886.8	16781.1	16772.0	16588.0
16411.4	5°	16597.2	16522.5	16577.1	16613.5	16600.8	16551.6	16507.9	16467.8	16302.1
15808.5	7.5°	15999.7	15972.4	15997.9	16025.2	16078.0	16025.2	16007.0	15965.1	15801.2
15214.7	10°	15336.7	15285.7	15382.2	15369.5	15354.9	15340.3	15263.8	15271.1	15078.1
14405.9	12.5°	14522.5	14436.9	14529.8	14540.7	14529.8	14478.8	14393.2	14429.6	14252.9
13313.1	15°	13427.8	13418.7	13486.1	13529.8	13560.8	13506.1	13477.0	13495.2	13389.6
11906.9	17.5°	12083.6	12202.0	12422.4	12497.0	12498.9	12555.3	12538.9	12517.1	12438.8
10349.5	20°	10502.5	10730.2	11069.0	11416.9	11517.1	11469.7	11447.9	11488.0	11371.4
8886.9	22.5°	9043.6	9238.4	9631.9	10140.1	10433.3	10462.5	10457.0	10422.4	10376.9
7715.7	25°	7805.0	7978.0	8355.0	8819.5	9382.3	9466.1	9469.8	9458.8	9418.8
6653.8	27.5°	6759.4	6968.9	7176.6	7591.8	8191.1	8537.2	8493.5	8480.7	8466.1
5757.6	30°	5812.3	6076.4	6271.3	6529.9	7067.3	7535.4	7580.9	7559.1	7524.5
5016.3	32.5°	5061.8	5218.5	5466.2	5641.1	6027.2	6557.3	6732.1	6715.7	6684.8
4347.8	35°	4409.8	4471.7	4666.6	4861.5	5118.3	5632.0	5890.6	5854.2	5848.7
3542.7	37.5°	3632.0	3839.6	3947.1	4143.8	4324.1	4723.0	5080.1	5063.7	5065.5
2848.8	40°	2932.6	3052.8	3265.9	3431.6	3597.4	3888.8	4285.9	4296.8	4293.2
2205.8	42.5°	2251.3	2367.9	2591.9	2772.3	2919.8	3100.1	3479.0	3491.7	3508.1
1717.6	45°	1757.7	1832.4	1996.3	2183.9	2340.6	2449.9	2737.7	2819.6	2821.4
1331.5	47.5°	1364.3	1449.9	1566.5	1746.8	1899.8	1978.1	2187.6	2298.7	2293.2
1021.8	50°	1071.0	1149.3	1244.1	1386.1	1551.9	1613.8	1768.6	1877.9	1872.5
770.5	52.5°	819.7	919.8	1003.6	1112.9	1275.0	1327.8	1439.0	1564.6	1546.4
564.7	55°	621.1	723.1	801.4	892.5	1040.1	1107.4	1183.9	1284.1	1287.8
437.2	57.5°	468.1	573.8	644.8	737.7	848.8	923.5	981.8	1089.2	1087.4
298.7	60°	335.1	426.2	511.8	608.4	694.0	779.6	819.7	921.7	925.3
211.3	62.5°	242.3	327.9	409.8	493.6	570.1	653.9	690.3	770.5	781.4
138.4	65°	169.4	229.5	324.2	388.0	473.6	535.5	582.9	652.1	664.8
82.0	67.5°	109.3	165.8	256.8	313.3	391.6	444.4	493.6	548.3	564.7
52.8	70°	65.6	125.7	191.3	251.4	322.4	369.8	417.1	464.5	473.6
25.5	72.5°	41.9	87.4	138.4	204.0	258.6	309.6	351.5	386.1	358.8
16.4	75°	23.7	60.1	109.3	160.3	209.5	258.6	293.3	311.5	249.5
10.9	77.5°	14.6	43.7	89.3	129.3	162.1	207.6	229.5	240.4	178.5
7.3	80°	9.1	32.8	74.7	105.6	105.6	153.0	178.5	187.6	129.3
5.5	82.5°	7.3	23.7	58.3	80.1	71.0	114.8	140.3	142.1	91.1
3.6	85°	5.5	18.2	36.4	52.8	49.2	80.1	82.0	91.1	60.1
3.6	87.5°	3.6	10.9	21.9	31.0	27.3	38.3	43.7	49.2	32.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16941.4
16444.1
16169.1
15766.6
15012.5
14201.9
13262.1
12322.2
11287.6
10289.4
9284.0
8380.5
7480.7
6602.8
5788.6
5007.2
4229.4
3453.5
2774.1
2273.2
1872.5
1548.2
1287.8
1083.8
916.2
777.8
661.2
562.8
466.3
333.3
236.8
167.6
120.2
83.8
54.6
29.1
0.0

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