

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: P637342

Luminaire Tested: **IFLD-L-SA8A-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637342
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30085.8 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

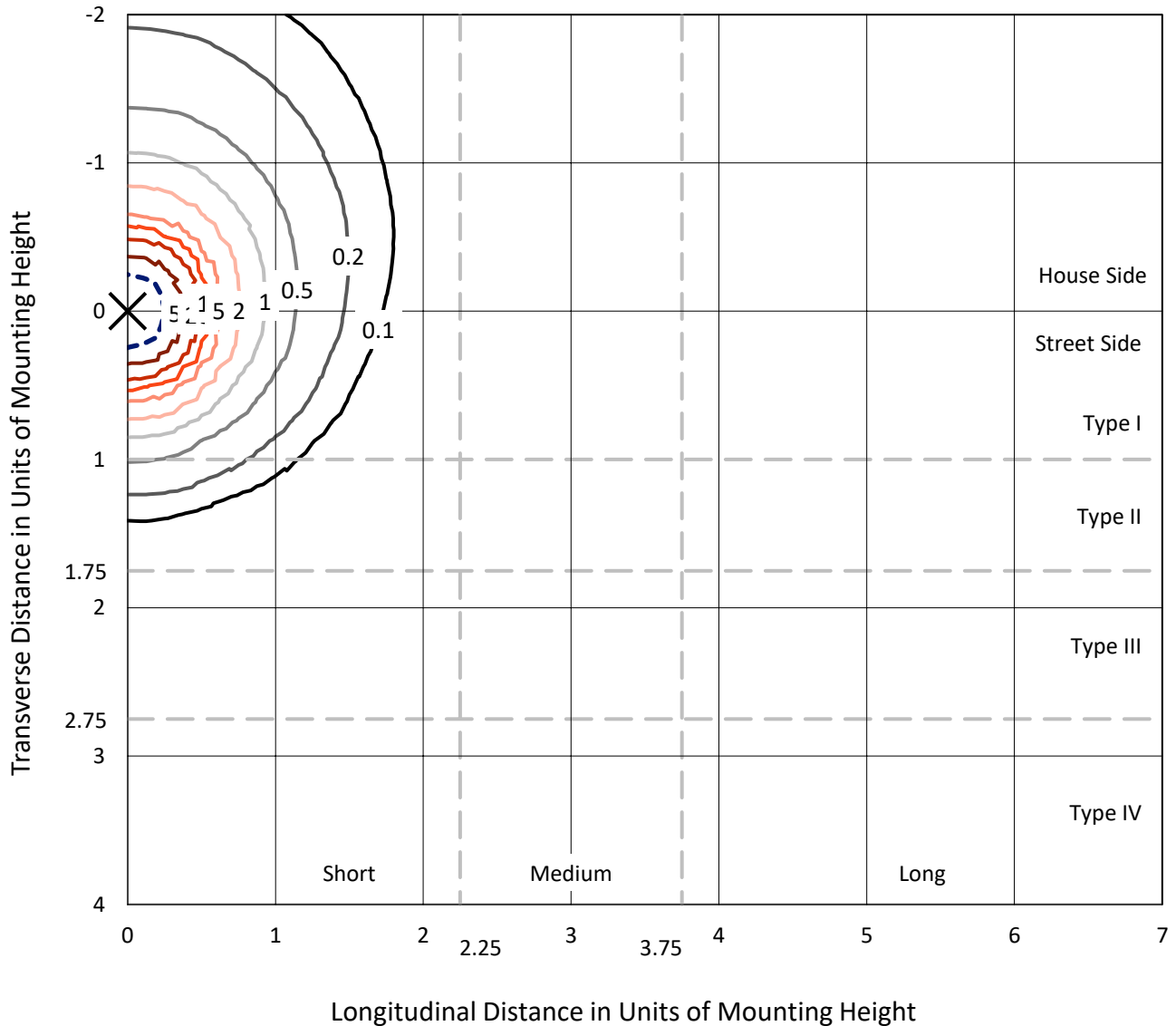
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

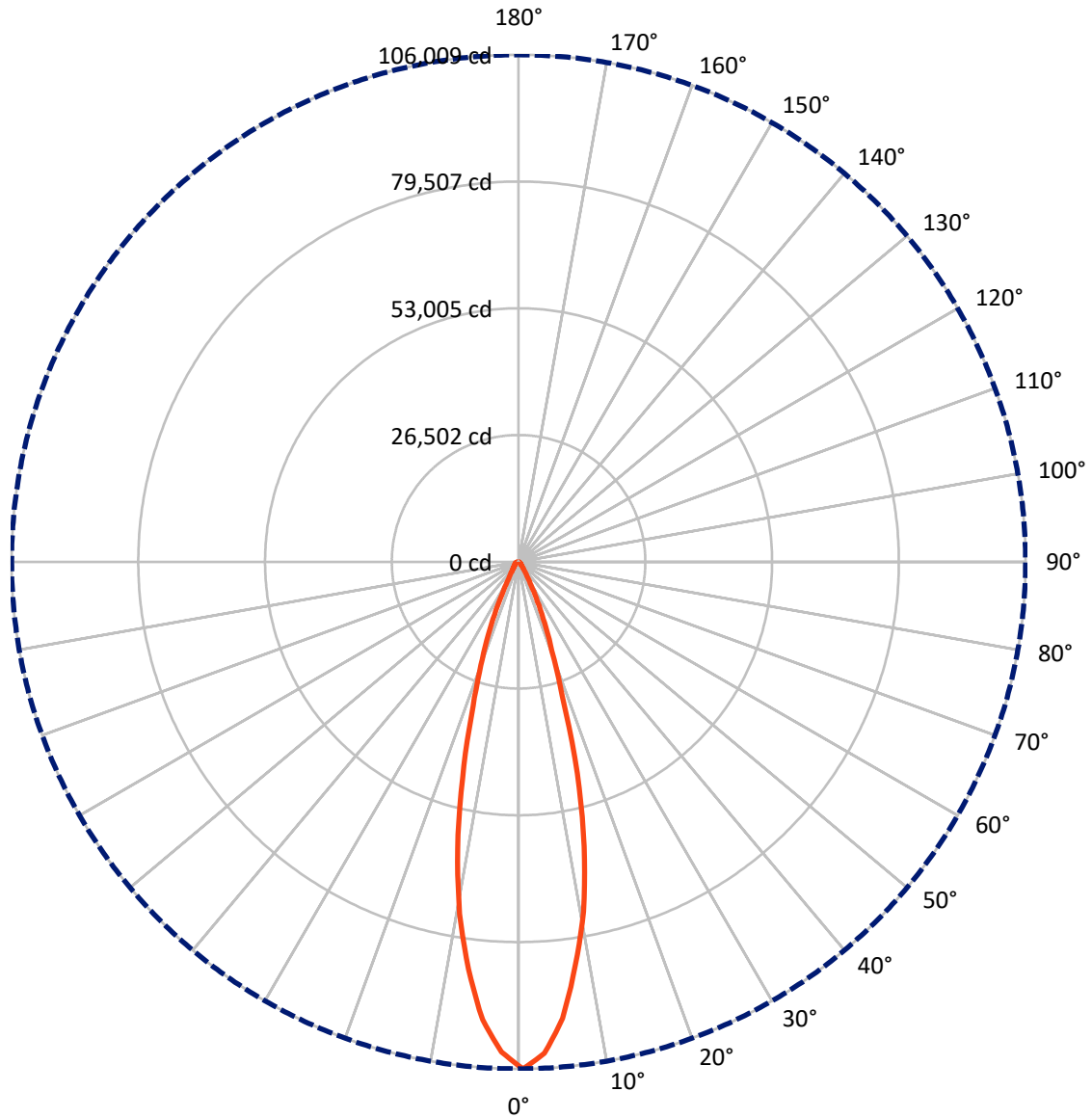
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 265 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	15863.3	0.0	15863.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	14222.6	0.0	14222.6
	% Fixture	47.3	0.0	47.3
Total	Lumens	30085.8	0.0	30085.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8555.9	28.4
10°-20°	12957.8	43.1
20°-30°	5468.3	18.2
30°-40°	1426.2	4.7
40°-50°	721.3	2.4
50°-60°	471.5	1.6
60°-70°	282.5	0.9
70°-80°	148.6	0.5
80°-90°	53.7	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°	30085.8	100.0
0°-180°	30085.8	100.0

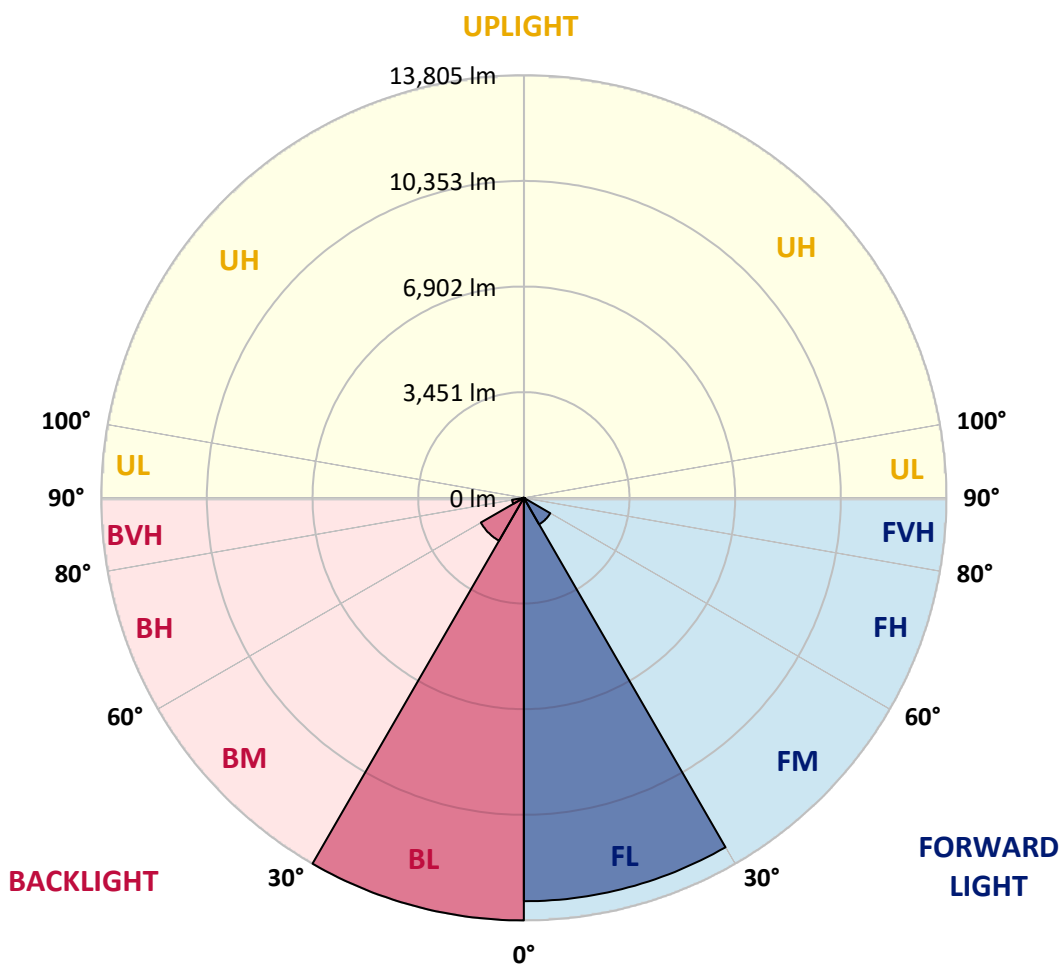


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13177.4	43.8			
FM (30°-60°)	998.0	3.3			
FH (60°-80°)	40.7	0.1			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	13804.6	45.9	B5		
BM (30°-60°)	1621.1	5.4	B2/2500		
BH (60°-80°)	390.4	1.3	B1/500		G0/660
BVH (80°-90°)	47.2	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°	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4
2.5°	102921.3	102978.8	102765.9	103225.4	102867.3	103826.8	103350.4	104093.7	103843.7	104259.3
5°	95893.7	95799.1	95738.2	96451.1	96245.0	97275.5	96616.7	96400.5	97069.4	96947.8
7.5°	85281.2	85531.3	85389.4	85575.2	85679.9	86855.7	87227.4	86936.8	86946.9	87115.9
10°	74401.9	74033.6	73509.9	73857.9	74594.5	75108.0	74901.9	75327.6	75233.0	75635.1
12.5°	61015.6	61306.1	61012.2	60701.3	61988.6	61846.7	62204.9	62438.0	61853.5	63154.3
15°	45960.2	46112.2	46470.3	46446.7	47436.7	47636.0	47588.7	47835.3	47379.2	47595.4
17.5°	29526.3	30039.8	31002.8	32631.3	34462.5	34675.4	34621.3	34418.6	34199.0	33955.7
20°	19832.8	19778.8	20126.8	20603.2	24394.1	25397.5	25367.1	24731.9	23812.9	23637.2
22.5°	13893.1	13994.5	13947.2	14420.2	15204.1	17971.2	17629.9	16984.6	16683.9	16488.0
25°	9139.3	9102.2	9338.7	9480.6	10152.9	10490.8	11686.9	11447.0	10984.1	11034.8
27.5°	5571.4	5618.7	5706.6	5828.2	6304.6	6196.5	6879.0	6970.2	6821.6	6662.8
30°	3419.2	3453.0	3524.0	3611.8	3777.4	3659.1	3848.3	4176.0	4122.0	4010.5
32.5°	2321.2	2324.5	2375.2	2409.0	2388.7	2277.2	2338.0	2648.9	2655.6	2645.5
35°	1669.1	1669.1	1716.4	1743.4	1686.0	1594.7	1604.9	1797.5	1881.9	1898.8
37.5°	1152.1	1155.5	1236.6	1317.7	1253.5	1229.8	1189.3	1317.7	1452.8	1473.1
40°	875.1	871.7	912.2	973.1	979.8	935.9	949.4	1030.5	1169.0	1185.9
42.5°	709.5	712.9	733.2	726.4	729.8	787.2	807.5	844.7	973.1	1003.5
45°	598.0	601.4	611.5	577.8	564.2	652.1	679.1	699.4	807.5	844.7
47.5°	493.3	500.0	510.2	473.0	466.3	523.7	571.0	591.3	685.9	726.4
50°	354.8	361.5	398.7	378.4	398.7	412.2	476.4	506.8	571.0	625.1
52.5°	256.8	263.5	273.7	277.1	327.7	334.5	381.8	429.1	459.5	520.3
55°	202.7	209.5	202.7	196.0	239.9	277.1	293.9	344.6	368.3	439.2
57.5°	114.9	121.6	131.8	152.0	158.8	212.9	229.8	273.7	293.9	361.5
60°	20.3	23.7	37.2	91.2	111.5	135.1	172.3	209.5	236.5	283.8
62.5°	3.4	3.4	6.8	20.3	64.2	94.6	125.0	148.7	172.3	216.2
65°	0.0	0.0	3.4	6.8	16.9	54.1	67.6	87.8	118.3	155.4
67.5°	0.0	0.0	3.4	6.8	10.1	20.3	30.4	54.1	67.6	104.7
70°	0.0	0.0	3.4	6.8	10.1	13.5	16.9	23.7	40.5	64.2
72.5°	0.0	0.0	3.4	6.8	10.1	13.5	16.9	20.3	20.3	40.5
75°	0.0	0.0	3.4	6.8	10.1	16.9	20.3	20.3	16.9	16.9
77.5°	0.0	0.0	3.4	6.8	13.5	20.3	23.7	20.3	13.5	13.5
80°	0.0	0.0	6.8	10.1	16.9	23.7	30.4	23.7	13.5	6.8
82.5°	0.0	0.0	6.8	13.5	16.9	27.0	37.2	30.4	13.5	6.8
85°	0.0	0.0	3.4	10.1	20.3	27.0	37.2	27.0	13.5	3.4
87.5°	0.0	0.0	3.4	3.4	6.8	10.1	20.3	16.9	6.8	3.4
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°
106009.4	0°	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4	106009.4
103472.0	2.5°	104066.7	104607.3	104718.8	104570.1	104786.3	104397.8	104100.5	103330.1	102867.3
96910.6	5°	97535.7	97454.6	98018.9	98204.7	98181.0	97883.7	97468.1	97001.9	96549.1
86788.1	7.5°	87328.7	87433.5	87947.0	88274.7	88109.2	87737.5	87450.3	87099.0	86794.9
75780.4	10°	76473.0	75753.4	76391.9	76391.9	76834.5	75783.8	75881.7	74996.5	75037.1
63130.6	12.5°	63346.9	63607.0	63711.7	64012.5	63495.5	62938.0	62255.5	62120.4	61698.1
47183.3	15°	47862.4	48605.7	47967.1	49058.4	48531.3	47950.2	47845.5	46798.1	47129.2
34222.6	17.5°	34053.7	34874.7	35131.5	35756.6	35276.8	34932.2	34496.3	34178.7	34155.1
23958.2	20°	24147.4	24971.8	25161.0	25911.1	25857.0	25748.9	25380.6	24978.6	24542.7
16308.9	22.5°	16555.5	17227.9	17856.3	18866.5	18849.6	18532.1	18494.9	17927.3	17937.4
11017.9	25°	11132.7	11622.7	11771.3	12805.2	12920.1	12886.3	12693.7	12166.6	12366.0
6730.3	27.5°	6737.1	7166.2	7669.6	8034.5	8379.1	8325.1	8132.5	7838.5	7710.1
4044.3	30°	4152.4	4345.0	4530.8	4970.0	5176.1	5284.3	5193.0	4919.4	4939.6
2662.4	32.5°	2719.8	2882.0	3017.2	3294.2	3402.3	3601.7	3564.5	3507.1	3439.5
1915.7	35°	1983.3	2101.5	2192.8	2321.2	2459.7	2628.6	2655.6	2632.0	2605.0
1479.9	37.5°	1513.6	1635.3	1740.0	1794.1	1902.2	2034.0	2108.3	2104.9	2084.6
1206.2	40°	1229.8	1321.1	1415.7	1486.6	1560.9	1658.9	1750.2	1760.3	1760.3
1013.6	42.5°	1027.1	1104.8	1199.4	1273.8	1327.8	1419.0	1513.6	1520.4	1513.6
858.2	45°	878.5	946.0	1037.3	1125.1	1169.0	1236.6	1327.8	1348.1	1334.6
736.6	47.5°	763.6	824.4	902.1	996.7	1044.0	1104.8	1189.3	1212.9	1209.6
635.2	50°	655.5	726.4	804.1	881.8	942.7	1000.1	1081.2	1108.2	1098.1
540.6	52.5°	577.8	641.9	709.5	794.0	864.9	915.6	979.8	1027.1	1013.6
456.1	55°	483.2	560.9	631.8	702.8	790.6	844.7	905.5	962.9	949.4
385.2	57.5°	419.0	483.2	564.2	628.4	716.3	780.5	841.3	902.1	898.7
314.2	60°	351.4	419.0	496.7	564.2	645.3	716.3	777.1	844.7	851.4
236.5	62.5°	277.1	358.1	425.7	503.4	584.5	662.2	716.3	783.9	794.0
179.1	65°	209.5	293.9	368.3	442.6	523.7	608.2	655.5	712.9	723.0
131.8	67.5°	155.4	226.4	314.2	381.8	466.3	547.3	591.3	638.6	655.5
81.1	70°	118.3	172.3	263.5	327.7	415.6	479.8	527.1	567.6	581.1
54.1	72.5°	74.3	135.1	212.9	280.4	358.1	415.6	449.4	473.0	493.3
30.4	75°	50.7	104.7	172.3	239.9	297.3	341.2	371.7	391.9	408.8
13.5	77.5°	30.4	81.1	141.9	199.3	236.5	270.3	300.7	314.2	324.4
10.1	80°	16.9	60.8	118.3	162.2	185.8	209.5	233.1	250.0	256.8
6.8	82.5°	10.1	47.3	94.6	125.0	135.1	158.8	182.4	192.6	192.6
3.4	85°	6.8	33.8	64.2	91.2	98.0	114.9	121.6	128.4	135.1
3.4	87.5°	6.8	20.3	40.5	50.7	54.1	60.8	64.2	71.0	77.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
106009.4
102526.0
96042.3
85764.4
74641.8
61312.9
46798.1
33526.6
24353.5
17741.4
12051.7
7598.6
4851.8
3415.8
2594.8
2074.5
1740.0
1506.9
1334.6
1202.8
1091.3
1010.2
956.2
902.1
854.8
800.7
733.2
662.2
587.9
489.9
405.4
321.0
250.0
189.2
131.8
74.3
0.0

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