

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: P638187

Luminaire Tested: **IFLD-S-SA2A-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638187
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7263.9 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

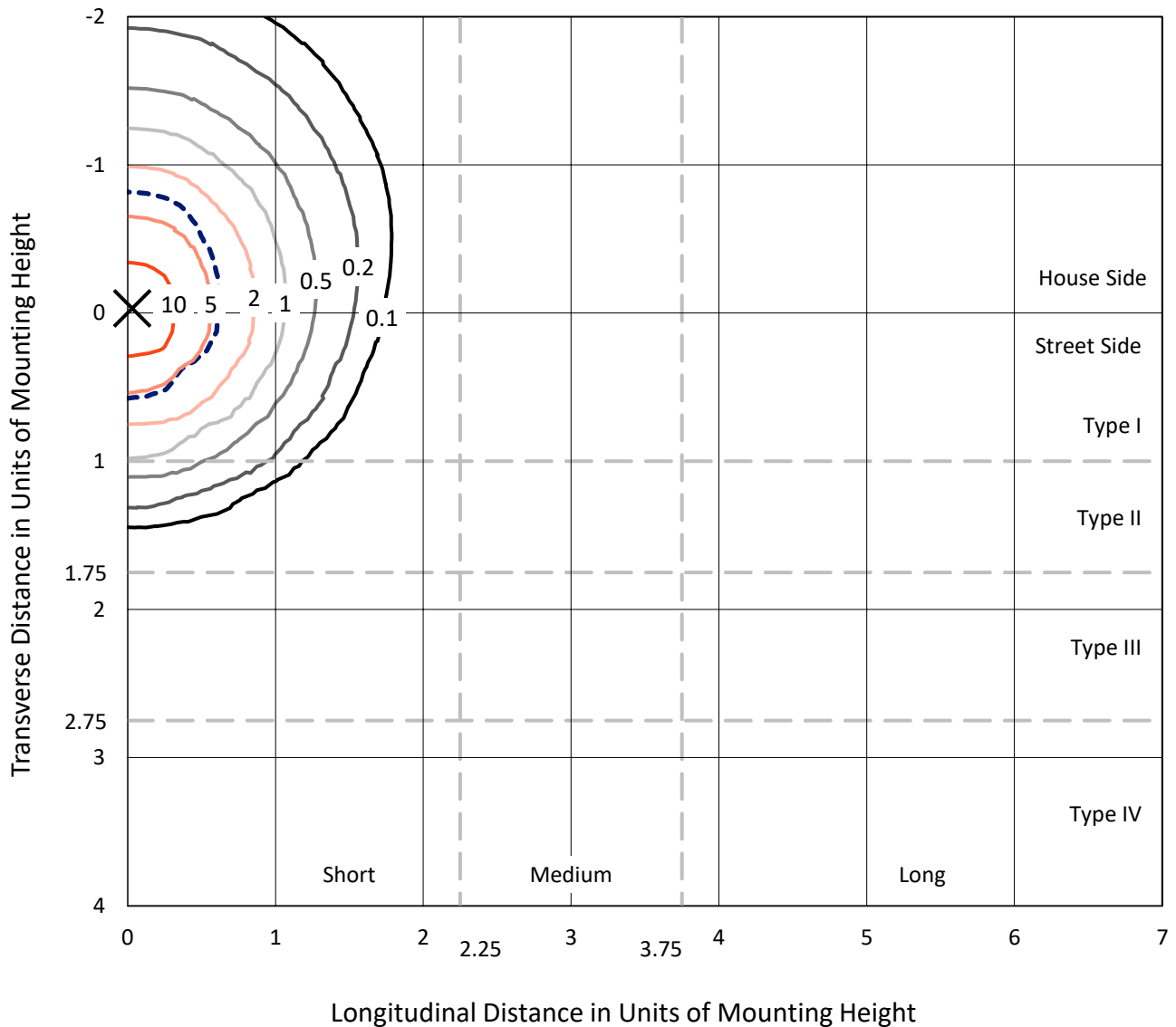
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

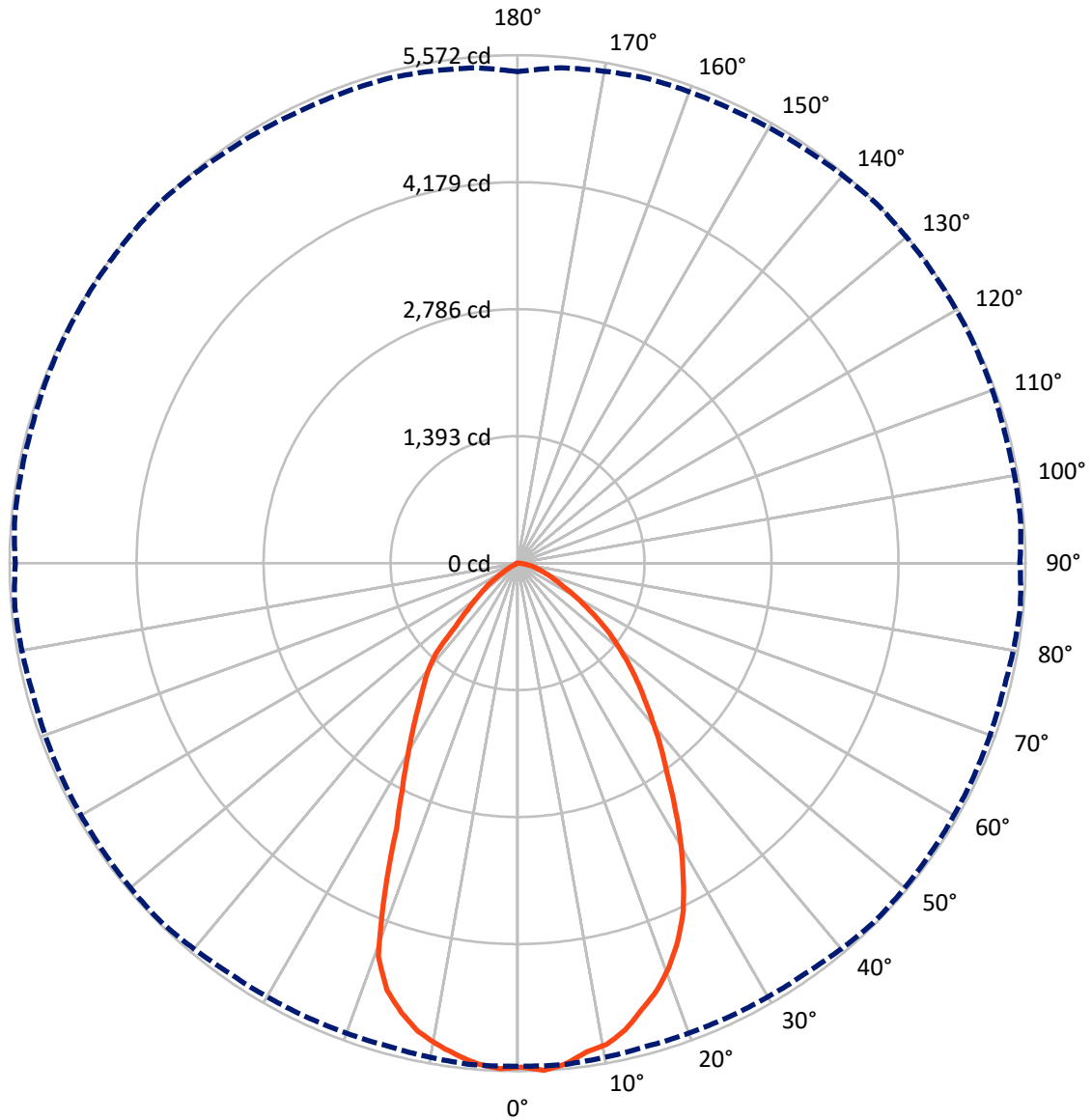
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.8 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
House Side	Lumens	4302.0	0.0	4302.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2961.8	0.0	2961.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	7263.9	0.0	7263.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.4	7.1
10°-20°	1390.2	19.1
20°-30°	1695.4	23.3
30°-40°	1547.9	21.3
40°-50°	1118.6	15.4
50°-60°	610.8	8.4
60°-70°	252.5	3.5
70°-80°	102.3	1.4
80°-90°	27.8	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°	7263.9	100.0
0°-180°	7263.9	100.0



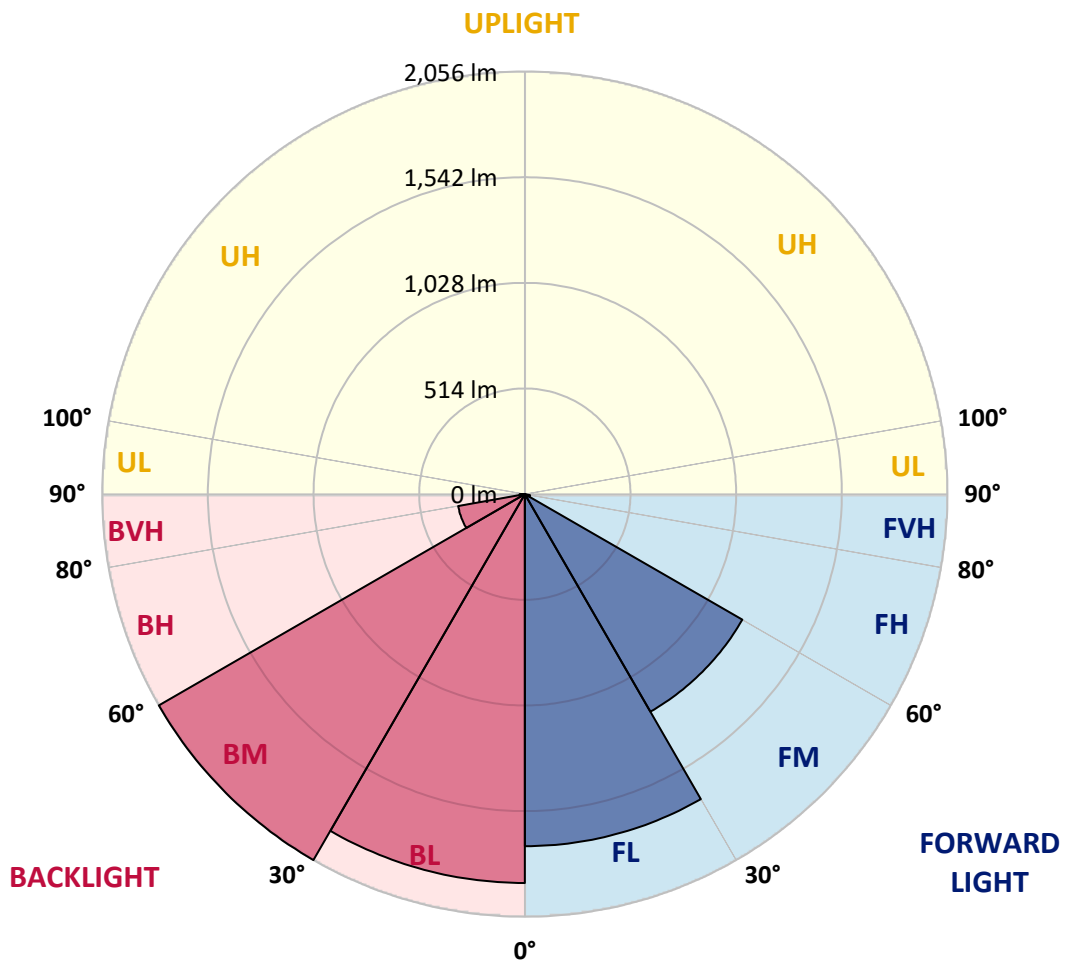
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1712.4	23.6			
FM (30°-60°)	1221.7	16.8			
FH (60°-80°)	25.6	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1891.6	26.0	B3/2500		
BM (30°-60°)	2055.6	28.3	B2/2500		
BH (60°-80°)	329.2	4.5	B1/500		G1/500
BVH (80°-90°)	25.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8
2.5°	5517.6	5524.7	5485.9	5490.0	5497.1	5549.3	5536.0	5523.7	5506.3	5536.0
5°	5510.4	5514.5	5473.6	5459.3	5465.4	5512.5	5469.5	5469.5	5465.4	5460.3
7.5°	5455.2	5457.2	5425.5	5399.9	5416.3	5437.8	5406.1	5421.4	5398.9	5416.3
10°	5372.3	5359.0	5321.2	5314.0	5332.4	5352.9	5331.4	5345.7	5325.3	5338.6
12.5°	5250.6	5230.1	5199.4	5190.2	5222.0	5249.6	5232.2	5224.0	5197.4	5230.1
15°	4781.1	4765.7	4835.3	4957.0	5066.5	5090.0	5071.6	5079.8	5024.5	5033.7
17.5°	3935.1	3906.5	3981.2	4269.6	4680.8	4897.7	4881.3	4828.1	4746.3	4764.7
20°	3576.1	3567.9	3559.7	3628.3	3915.7	4573.4	4595.9	4460.9	4344.3	4318.7
22.5°	3373.6	3370.5	3362.3	3377.6	3453.3	3875.8	4133.6	4008.8	3931.0	3923.9
25°	3188.4	3183.3	3158.7	3178.2	3178.2	3202.7	3533.1	3608.8	3540.3	3532.1
27.5°	3000.2	2991.0	2986.9	2996.1	2949.0	2783.3	2867.2	3236.5	3200.7	3202.7
30°	2796.6	2793.6	2782.3	2801.7	2656.5	2450.9	2397.7	2898.9	2906.1	2904.0
32.5°	2493.9	2507.2	2558.3	2579.8	2340.4	2170.6	2081.6	2508.2	2654.5	2651.4
35°	1811.6	1811.6	1978.3	2288.2	2050.9	1923.1	1875.0	2126.6	2405.9	2416.1
37.5°	1489.4	1494.5	1527.2	1668.4	1769.6	1724.6	1710.3	1790.1	2086.7	2103.1
40°	1340.0	1340.0	1340.0	1281.7	1278.6	1553.8	1545.6	1520.0	1802.4	1838.2
42.5°	1204.0	1207.0	1209.1	1061.8	979.9	1343.1	1324.7	1285.8	1547.7	1589.6
45°	1063.8	1068.9	1075.1	887.9	852.1	966.6	1121.1	1078.1	1296.0	1350.2
47.5°	649.5	657.7	796.8	752.9	757.0	745.7	914.5	907.3	1062.8	1139.5
50°	438.8	441.9	455.2	477.7	649.5	586.1	647.5	750.8	807.1	923.7
52.5°	368.2	373.4	340.6	309.9	426.6	458.3	452.1	557.5	580.0	724.2
55°	258.8	275.2	259.8	256.8	242.4	356.0	342.7	428.6	442.9	550.3
57.5°	26.6	30.7	53.2	191.3	158.6	201.5	244.5	314.0	328.4	406.1
60°	2.0	2.0	5.1	26.6	115.6	120.7	168.8	193.3	220.9	283.3
62.5°	0.0	1.0	2.0	4.1	18.4	64.4	84.9	101.3	133.0	183.1
65°	0.0	0.0	1.0	3.1	4.1	24.5	32.7	53.2	72.6	113.5
67.5°	0.0	0.0	1.0	2.0	3.1	6.1	11.3	19.4	38.9	64.4
70°	0.0	0.0	1.0	2.0	3.1	5.1	8.2	12.3	17.4	34.8
72.5°	0.0	0.0	1.0	1.0	2.0	5.1	6.1	8.2	12.3	17.4
75°	0.0	0.0	1.0	1.0	3.1	6.1	5.1	6.1	8.2	11.3
77.5°	0.0	0.0	1.0	2.0	3.1	6.1	5.1	6.1	6.1	7.2
80°	0.0	0.0	1.0	2.0	4.1	7.2	6.1	6.1	5.1	5.1
82.5°	0.0	0.0	1.0	3.1	4.1	9.2	9.2	8.2	4.1	3.1
85°	0.0	0.0	2.0	4.1	6.1	10.2	10.2	8.2	3.1	2.0
87.5°	0.0	0.0	2.0	3.1	5.1	7.2	10.2	8.2	3.1	1.0
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°
5527.8	0°	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8	5527.8
5510.4	2.5°	5538.0	5531.9	5552.4	5560.5	5571.8	5528.8	5502.2	5503.3	5454.2
5448.0	5°	5480.7	5481.8	5508.4	5506.3	5517.6	5494.0	5483.8	5466.4	5423.5
5369.3	7.5°	5408.1	5398.9	5424.5	5443.9	5415.3	5431.6	5408.1	5416.3	5390.7
5299.7	10°	5351.9	5330.4	5353.9	5367.2	5368.2	5351.9	5329.4	5307.9	5298.7
5191.3	12.5°	5227.1	5199.4	5239.3	5257.8	5254.7	5223.0	5197.4	5202.5	5172.9
5001.0	15°	5055.2	5056.2	5084.9	5102.3	5085.9	5078.7	5080.8	5068.5	5042.9
4738.1	17.5°	4792.3	4807.7	4883.4	4925.3	4934.5	4920.2	4913.0	4898.7	4873.1
4318.7	20°	4354.5	4446.6	4581.6	4711.5	4737.1	4733.0	4707.4	4701.3	4687.0
3903.4	22.5°	3969.9	4038.4	4195.0	4397.5	4501.8	4512.1	4481.4	4472.2	4456.8
3532.1	25°	3572.0	3645.6	3786.8	4006.7	4222.6	4266.6	4261.4	4233.8	4217.5
3202.7	27.5°	3236.5	3310.1	3438.0	3636.4	3867.6	4008.8	4022.1	3978.1	3977.1
2909.2	30°	2933.7	3035.0	3132.1	3293.8	3517.8	3729.5	3752.0	3721.3	3724.4
2640.1	32.5°	2696.4	2780.3	2863.1	2971.6	3157.7	3404.2	3492.2	3463.6	3452.3
2416.1	35°	2454.0	2511.2	2596.1	2695.4	2822.2	3066.7	3219.1	3197.6	3186.4
2113.3	37.5°	2177.8	2276.0	2337.3	2448.8	2548.1	2742.4	2957.2	2954.2	2930.6
1855.6	40°	1894.4	1997.7	2090.8	2203.3	2280.1	2434.5	2672.9	2671.8	2674.9
1588.6	42.5°	1637.7	1732.8	1845.3	1968.1	2041.7	2154.2	2410.0	2424.3	2441.7
1368.7	45°	1405.5	1491.4	1595.7	1745.1	1834.1	1898.5	2125.6	2191.1	2190.0
1172.3	47.5°	1196.8	1277.6	1365.6	1510.8	1624.4	1682.7	1870.9	1964.0	1957.8
961.5	50°	1004.5	1076.1	1168.2	1273.5	1425.9	1477.1	1617.2	1740.0	1730.8
766.2	52.5°	808.1	907.3	985.1	1081.2	1241.8	1291.9	1400.4	1520.0	1512.9
574.9	55°	630.1	726.3	820.4	903.2	1038.3	1112.9	1190.7	1313.4	1311.4
450.1	57.5°	476.7	582.0	671.0	749.8	857.2	949.3	1011.7	1123.2	1137.5
307.9	60°	352.9	433.7	529.9	617.8	702.7	797.9	839.8	949.3	955.4
210.7	62.5°	240.4	329.4	423.5	503.3	566.7	664.9	702.7	792.8	804.0
135.0	65°	166.7	224.0	331.4	388.7	466.4	550.3	588.2	659.8	682.3
77.7	67.5°	110.5	159.6	258.8	311.0	387.7	445.0	493.0	551.3	575.9
49.1	70°	60.4	117.6	185.1	245.5	312.0	367.2	414.3	461.3	482.8
22.5	72.5°	40.9	78.8	128.9	194.4	251.6	305.8	347.8	382.6	383.6
13.3	75°	20.5	53.2	98.2	150.4	196.4	249.6	287.4	307.9	283.3
8.2	77.5°	12.3	38.9	79.8	120.7	159.6	201.5	223.0	234.2	194.4
6.1	80°	7.2	27.6	62.4	96.2	110.5	148.3	168.8	171.8	129.9
4.1	82.5°	5.1	20.5	49.1	70.6	67.5	104.3	126.8	122.7	82.9
3.1	85°	3.1	14.3	30.7	44.0	40.9	68.5	73.6	75.7	48.1
2.0	87.5°	2.0	8.2	16.4	23.5	19.4	29.7	29.7	35.8	23.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5527.8
5390.7
5413.2
5347.8
5257.8
5147.3
5017.4
4861.9
4654.2
4452.7
4200.1
3975.0
3709.1
3453.3
3171.0
2950.1
2674.9
2432.5
2192.1
1959.9
1738.9
1528.2
1316.5
1131.3
964.6
806.1
677.2
572.8
474.6
374.4
264.9
187.2
121.7
76.7
44.0
20.5
0.0

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