

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: P636771

Luminaire Tested: **IFLD-S-SA3A-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636771
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7027 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

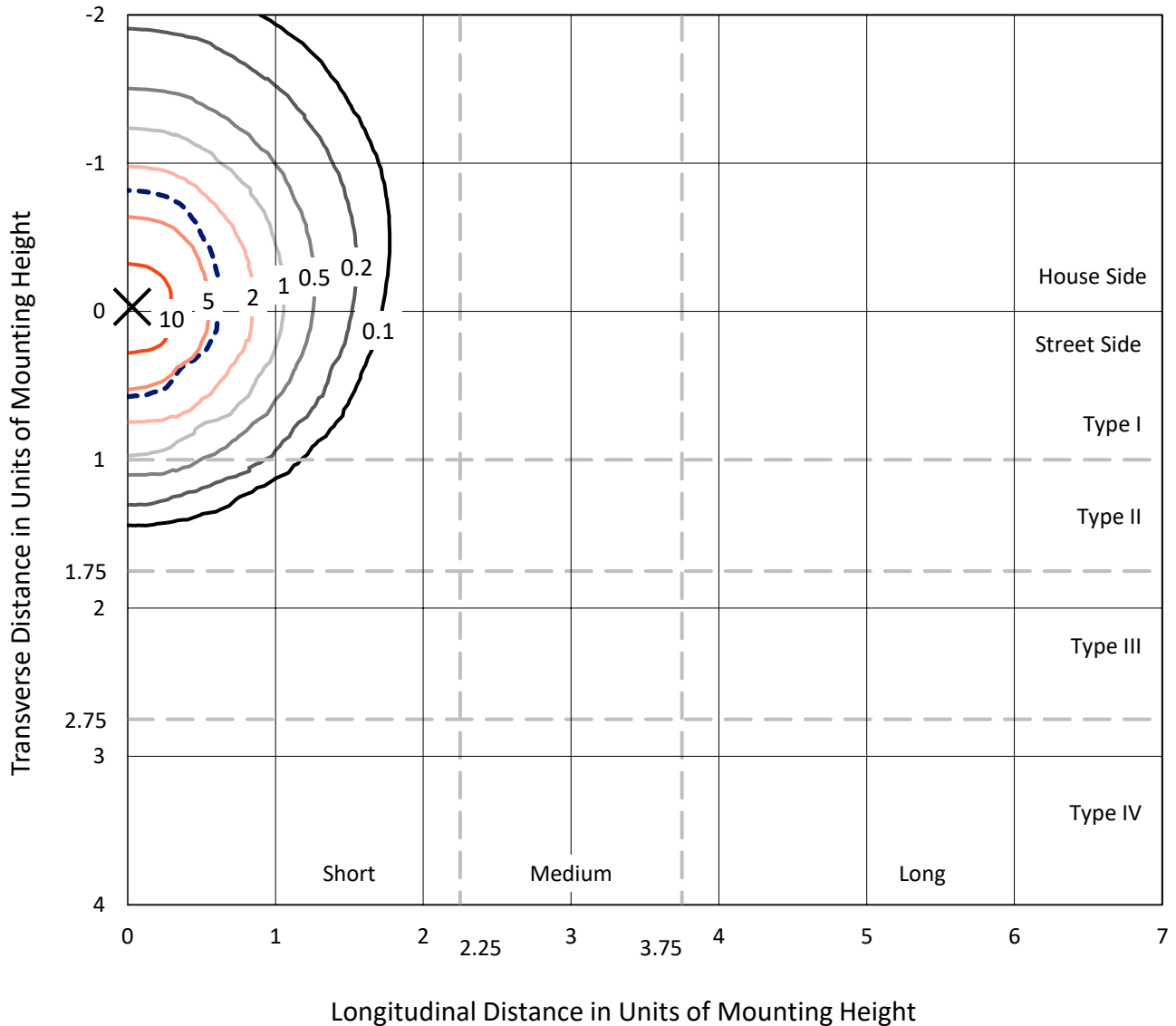
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

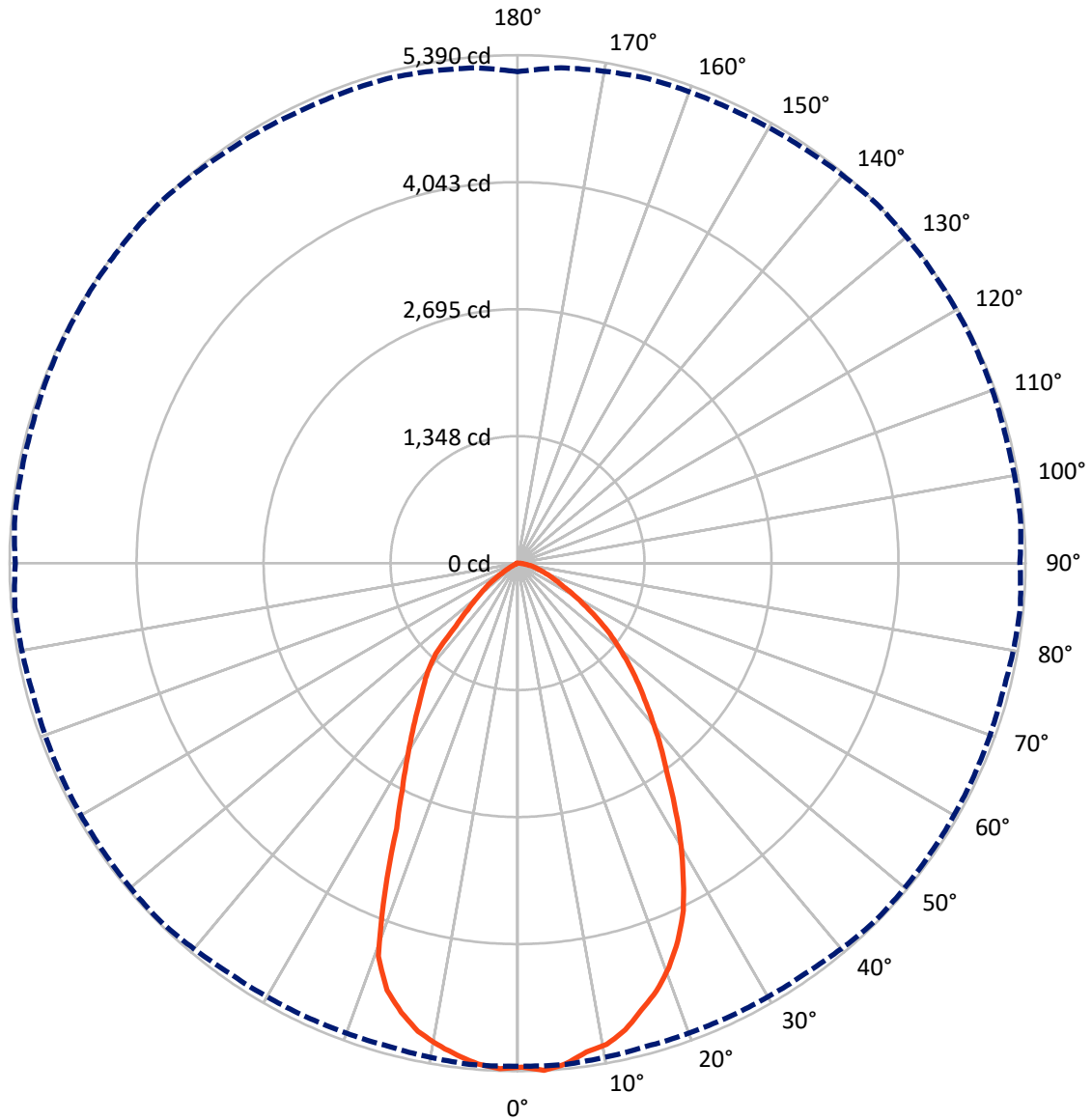
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.4 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	4161.8	0.0	4161.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2865.3	0.0	2865.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	7027.0	0.0	7027.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.5	7.1
10°-20°	1344.8	19.1
20°-30°	1640.1	23.3
30°-40°	1497.4	21.3
40°-50°	1082.1	15.4
50°-60°	590.9	8.4
60°-70°	244.3	3.5
70°-80°	98.9	1.4
80°-90°	26.9	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°	7027.0	100.0
0°-180°	7027.0	100.0



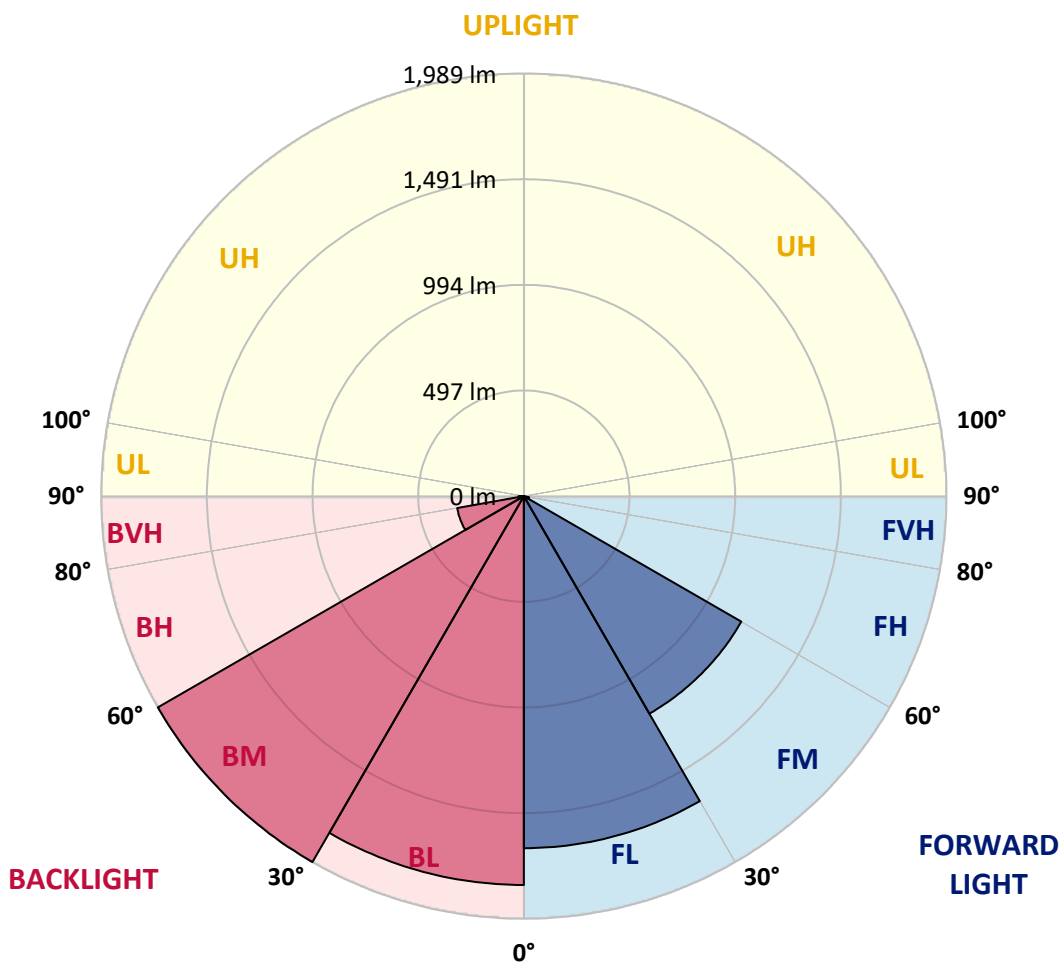
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1656.5	23.6			
FM	(30°-60°)	1181.8	16.8			
FH	(60°-80°)	24.8	0.4			G0/660
FVH	(80°-90°)	2.2	0.0			G0/10
BL	(0°-30°)	1829.9	26.0	B3/2500		
BM	(30°-60°)	1988.6	28.3	B2/2500		
BH	(60°-80°)	318.5	4.5	B1/500		G1/500
BVH	(80°-90°)	24.8	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°	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5
2.5°	5337.6	5344.6	5307.0	5310.9	5317.8	5368.3	5355.4	5343.6	5326.7	5355.4
5°	5330.7	5334.7	5295.1	5281.2	5287.2	5332.7	5291.1	5291.1	5287.2	5282.2
7.5°	5277.3	5279.3	5248.6	5223.8	5239.7	5260.4	5229.8	5244.6	5222.8	5239.7
10°	5197.1	5184.3	5147.6	5140.7	5158.5	5178.3	5157.5	5171.4	5151.6	5164.5
12.5°	5079.4	5059.6	5029.9	5021.0	5051.7	5078.4	5061.6	5053.6	5027.9	5059.6
15°	4625.2	4610.3	4677.6	4795.4	4901.2	4924.0	4906.2	4914.1	4860.7	4869.6
17.5°	3806.8	3779.1	3851.3	4130.4	4528.2	4738.0	4722.1	4670.7	4591.5	4609.3
20°	3459.5	3451.6	3443.6	3509.9	3788.0	4424.3	4446.0	4315.4	4202.6	4177.9
22.5°	3263.5	3260.6	3252.7	3267.5	3340.7	3749.4	3998.8	3878.0	3802.8	3795.9
25°	3084.4	3079.5	3055.7	3074.5	3074.5	3098.3	3417.9	3491.1	3424.8	3416.9
27.5°	2902.4	2893.4	2889.5	2898.4	2852.9	2692.6	2773.7	3130.9	3096.3	3098.3
30°	2705.4	2702.5	2691.6	2710.4	2569.9	2371.0	2319.5	2804.4	2811.3	2809.3
32.5°	2412.5	2425.4	2474.9	2495.6	2264.1	2099.8	2013.7	2426.4	2567.9	2564.9
35°	1752.5	1752.5	1913.8	2213.6	1984.0	1860.4	1813.8	2057.3	2327.4	2337.3
37.5°	1440.8	1445.7	1477.4	1614.0	1711.9	1668.4	1654.5	1731.7	2018.7	2034.5
40°	1296.3	1296.3	1296.3	1239.9	1236.9	1503.1	1495.2	1470.5	1743.6	1778.2
42.5°	1164.7	1167.7	1169.6	1027.2	948.0	1299.3	1281.5	1243.9	1497.2	1537.8
45°	1029.1	1034.1	1040.0	858.9	824.3	935.1	1084.5	1043.0	1253.8	1306.2
47.5°	628.4	636.3	770.9	728.3	732.3	721.4	884.7	877.7	1028.1	1102.4
50°	424.5	427.5	440.3	462.1	628.4	567.0	626.4	726.3	780.8	893.6
52.5°	356.2	361.2	329.5	299.8	412.6	443.3	437.4	539.3	561.1	700.6
55°	250.4	266.2	251.3	248.4	234.5	344.4	331.5	414.6	428.5	532.4
57.5°	25.7	29.7	51.5	185.0	153.4	194.9	236.5	303.8	317.6	392.9
60°	2.0	2.0	4.9	25.7	111.8	116.8	163.3	187.0	213.7	274.1
62.5°	0.0	1.0	2.0	4.0	17.8	62.3	82.1	98.0	128.6	177.1
65°	0.0	0.0	1.0	3.0	4.0	23.7	31.7	51.5	70.3	109.8
67.5°	0.0	0.0	1.0	2.0	3.0	5.9	10.9	18.8	37.6	62.3
70°	0.0	0.0	1.0	2.0	3.0	4.9	7.9	11.9	16.8	33.6
72.5°	0.0	0.0	1.0	1.0	2.0	4.9	5.9	7.9	11.9	16.8
75°	0.0	0.0	1.0	1.0	3.0	5.9	4.9	5.9	7.9	10.9
77.5°	0.0	0.0	1.0	2.0	3.0	5.9	4.9	5.9	5.9	6.9
80°	0.0	0.0	1.0	2.0	4.0	6.9	5.9	5.9	4.9	4.9
82.5°	0.0	0.0	1.0	3.0	4.0	8.9	8.9	7.9	4.0	3.0
85°	0.0	0.0	2.0	4.0	5.9	9.9	9.9	7.9	3.0	2.0
87.5°	0.0	0.0	2.0	3.0	4.9	6.9	9.9	7.9	3.0	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°
5347.5	0°	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5
5330.7	2.5°	5357.4	5351.5	5371.3	5379.2	5390.1	5348.5	5322.8	5323.8	5276.3
5270.3	5°	5302.0	5303.0	5328.7	5326.7	5337.6	5314.9	5305.0	5288.2	5246.6
5194.1	7.5°	5231.8	5222.8	5247.6	5266.4	5238.7	5254.5	5231.8	5239.7	5214.9
5126.9	10°	5177.3	5156.5	5179.3	5192.2	5193.2	5177.3	5155.6	5134.8	5125.9
5022.0	12.5°	5056.6	5029.9	5068.5	5086.3	5083.3	5052.6	5027.9	5032.9	5004.2
4837.9	15°	4890.4	4891.3	4919.1	4935.9	4920.0	4913.1	4915.1	4903.2	4878.5
4583.6	17.5°	4636.0	4650.9	4724.1	4764.7	4773.6	4759.7	4752.8	4739.0	4714.2
4177.9	20°	4212.5	4301.6	4432.2	4557.9	4582.6	4578.6	4553.9	4548.0	4534.1
3776.1	22.5°	3840.4	3906.7	4058.1	4254.1	4355.0	4364.9	4335.2	4326.3	4311.5
3416.9	25°	3455.5	3526.8	3663.3	3876.1	4084.9	4127.4	4122.5	4095.7	4079.9
3098.3	27.5°	3130.9	3202.2	3325.9	3517.9	3741.5	3878.0	3890.9	3848.4	3847.4
2814.3	30°	2838.0	2936.0	3030.0	3186.4	3403.1	3607.9	3629.7	3600.0	3603.0
2554.0	32.5°	2608.5	2689.6	2769.8	2874.6	3054.7	3293.2	3378.3	3350.6	3339.7
2337.3	35°	2373.9	2429.3	2511.5	2607.5	2730.2	2966.7	3114.1	3093.3	3082.4
2044.4	37.5°	2106.8	2201.7	2261.1	2369.0	2465.0	2653.0	2860.8	2857.8	2835.1
1795.0	40°	1832.6	1932.6	2022.6	2131.5	2205.7	2355.1	2585.7	2584.7	2587.7
1536.8	42.5°	1584.3	1676.3	1785.1	1903.9	1975.1	2084.0	2331.4	2345.2	2362.1
1324.0	45°	1359.6	1442.8	1543.7	1688.2	1774.3	1836.6	2056.3	2119.6	2118.6
1134.0	47.5°	1157.8	1235.9	1321.0	1461.6	1571.4	1627.8	1809.9	1899.9	1894.0
930.2	50°	971.7	1041.0	1130.1	1232.0	1379.4	1428.9	1564.5	1683.2	1674.3
741.2	52.5°	781.7	877.7	952.9	1046.0	1201.3	1249.8	1354.7	1470.5	1463.5
556.1	55°	609.6	702.6	793.6	873.8	1004.4	1076.6	1151.8	1270.6	1268.6
435.4	57.5°	461.1	563.1	649.1	725.3	829.2	918.3	978.7	1086.5	1100.4
297.9	60°	341.4	419.6	512.6	597.7	679.8	771.8	812.4	918.3	924.2
203.8	62.5°	232.5	318.6	409.7	486.9	548.2	643.2	679.8	766.9	777.8
130.6	65°	161.3	216.7	320.6	376.0	451.2	532.4	569.0	638.3	660.0
75.2	67.5°	106.9	154.4	250.4	300.8	375.0	430.5	477.0	533.4	557.1
47.5	70°	58.4	113.8	179.1	237.5	301.8	355.2	400.8	446.3	467.1
21.8	72.5°	39.6	76.2	124.7	188.0	243.4	295.9	336.4	370.1	371.1
12.9	75°	19.8	51.5	95.0	145.5	190.0	241.5	278.1	297.9	274.1
7.9	77.5°	11.9	37.6	77.2	116.8	154.4	194.9	215.7	226.6	188.0
5.9	80°	6.9	26.7	60.4	93.0	106.9	143.5	163.3	166.2	125.7
4.0	82.5°	4.9	19.8	47.5	68.3	65.3	100.9	122.7	118.7	80.2
3.0	85°	3.0	13.9	29.7	42.6	39.6	66.3	71.2	73.2	46.5
2.0	87.5°	2.0	7.9	15.8	22.8	18.8	28.7	28.7	34.6	22.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5347.5
5214.9
5236.7
5173.4
5086.3
4979.4
4853.7
4703.3
4502.5
4307.5
4063.1
3845.4
3588.1
3340.7
3067.6
2853.9
2587.7
2353.2
2120.6
1896.0
1682.2
1478.4
1273.6
1094.4
933.1
779.8
655.1
554.1
459.2
362.2
256.3
181.1
117.8
74.2
42.6
19.8
0.0

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