

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: P636742

Luminaire Tested: **IFLD-S-SA3A-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636742
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6773 lumens
Efficiency: N/A
Efficacy: 71.4 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

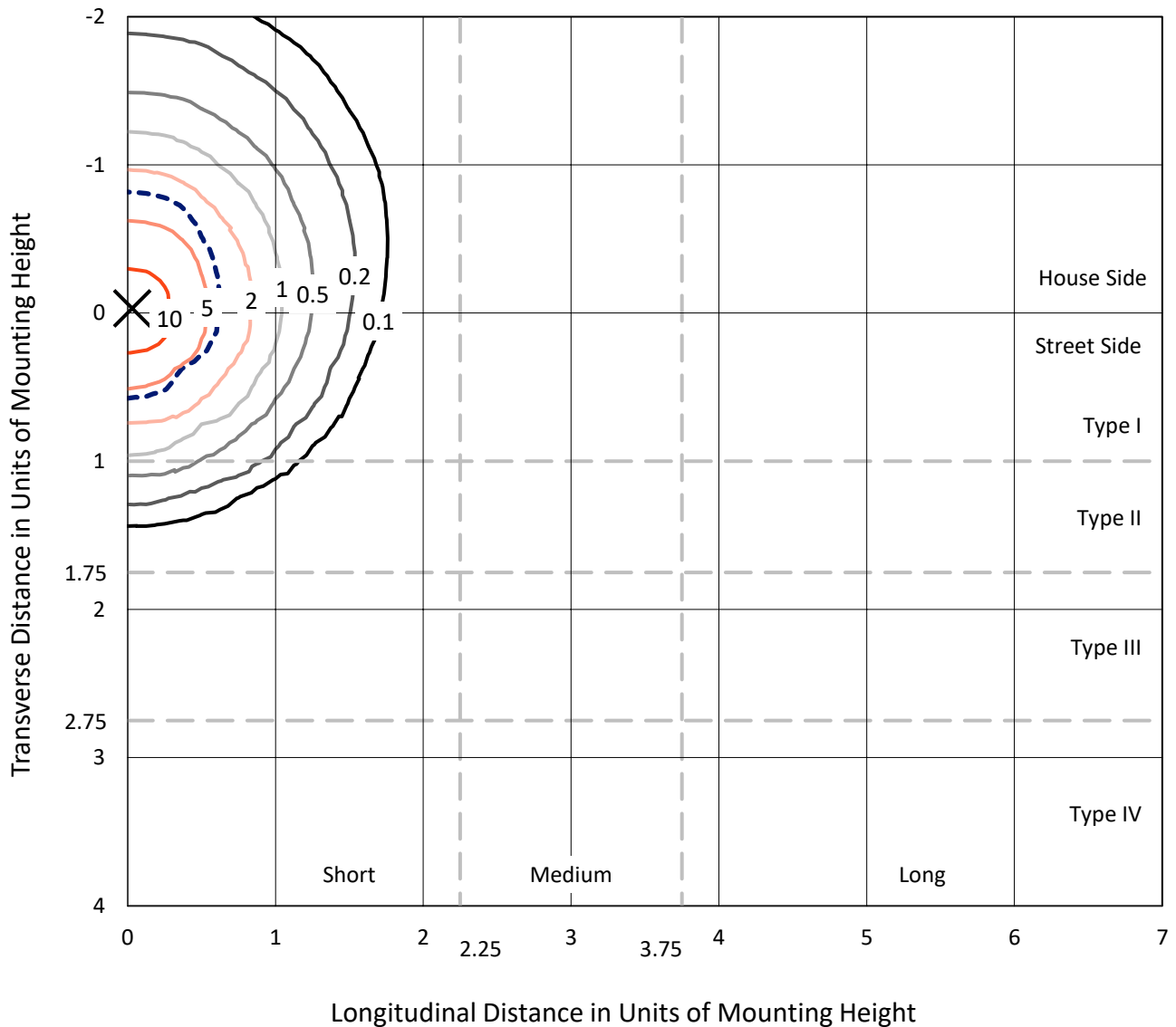
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

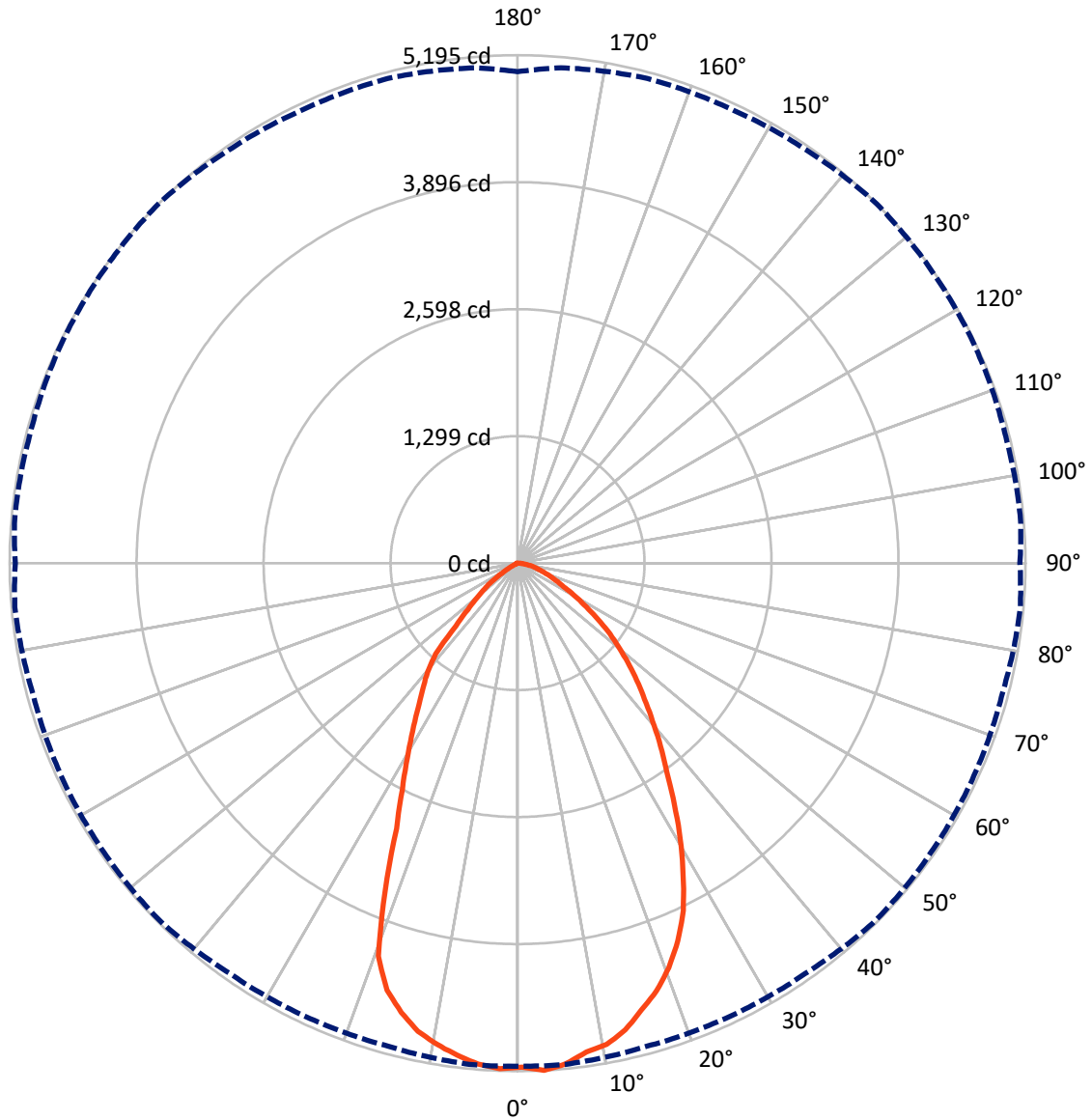
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.9 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	4011.3	0.0	4011.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2761.7	0.0	2761.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	6773.0	0.0	6773.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.4	7.1
10°-20°	1296.2	19.1
20°-30°	1580.8	23.3
30°-40°	1443.3	21.3
40°-50°	1043.0	15.4
50°-60°	569.5	8.4
60°-70°	235.5	3.5
70°-80°	95.4	1.4
80°-90°	25.9	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°	6773.0	100.0
0°-180°	6773.0	100.0



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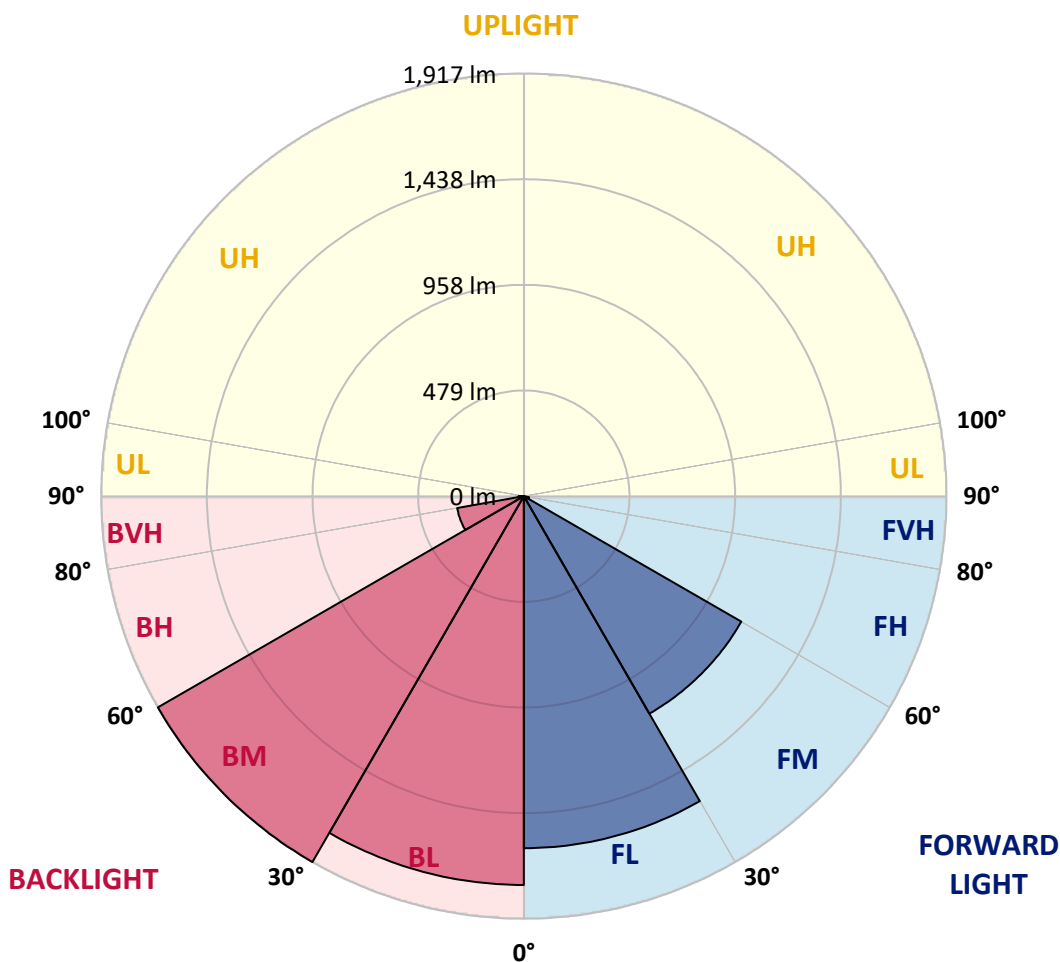
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.7	23.6			
FM (30°-60°)	1139.1	16.8			
FH (60°-80°)	23.9	0.4			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	1763.8	26.0	B3/2500		
BM (30°-60°)	1916.7	28.3	B2/2500		
BH (60°-80°)	307.0	4.5	B1/500		G1/500
BVH (80°-90°)	23.9	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°	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2
2.5°	5144.7	5151.4	5115.1	5119.0	5125.6	5174.3	5161.9	5150.4	5134.2	5161.9
5°	5138.0	5141.8	5103.7	5090.3	5096.1	5139.9	5099.9	5099.9	5096.1	5091.3
7.5°	5086.5	5088.4	5058.9	5035.0	5050.3	5070.3	5040.7	5055.1	5034.1	5050.3
10°	5009.3	4996.9	4961.6	4954.9	4972.1	4991.1	4971.1	4984.5	4965.4	4977.8
12.5°	4895.8	4876.7	4848.1	4839.5	4869.1	4894.8	4878.6	4871.0	4846.2	4876.7
15°	4458.0	4443.7	4508.5	4622.0	4724.1	4746.0	4728.9	4736.5	4685.0	4693.6
17.5°	3669.2	3642.5	3712.1	3981.1	4364.5	4566.7	4551.5	4501.9	4425.6	4442.7
20°	3334.4	3326.8	3319.2	3383.1	3651.1	4264.4	4285.3	4159.4	4050.7	4026.9
22.5°	3145.6	3142.7	3135.1	3149.4	3220.0	3613.9	3854.2	3737.9	3665.4	3658.7
25°	2972.9	2968.2	2945.3	2963.4	2963.4	2986.3	3294.4	3364.9	3301.0	3293.4
27.5°	2797.4	2788.9	2785.0	2793.6	2749.8	2595.2	2673.5	3017.8	2984.4	2986.3
30°	2607.6	2604.8	2594.3	2612.4	2477.0	2285.3	2235.7	2703.0	2709.7	2707.8
32.5°	2325.3	2337.7	2385.4	2405.4	2182.3	2023.9	1940.9	2338.7	2475.1	2472.2
35°	1689.2	1689.2	1844.6	2133.6	1912.3	1793.1	1748.3	1982.9	2243.3	2252.8
37.5°	1388.7	1393.5	1424.0	1555.6	1650.0	1608.1	1594.7	1669.1	1945.7	1961.0
40°	1249.5	1249.5	1249.5	1195.1	1192.2	1448.8	1441.2	1417.3	1680.6	1713.9
42.5°	1122.6	1125.5	1127.4	990.0	913.7	1252.3	1235.1	1198.9	1443.1	1482.2
45°	991.9	996.7	1002.4	827.9	794.5	901.3	1045.3	1005.3	1208.4	1259.0
47.5°	605.7	613.3	743.0	702.0	705.8	695.3	852.7	846.0	991.0	1062.5
50°	409.2	412.0	424.4	445.4	605.7	546.5	603.7	700.1	752.5	861.3
52.5°	343.4	348.1	317.6	289.0	397.7	427.3	421.6	519.8	540.8	675.3
55°	241.3	256.6	242.3	239.4	226.0	331.9	319.5	399.6	413.0	513.1
57.5°	24.8	28.6	49.6	178.4	147.8	187.9	228.0	292.8	306.2	378.7
60°	1.9	1.9	4.8	24.8	107.8	112.5	157.4	180.3	206.0	264.2
62.5°	0.0	1.0	1.9	3.8	17.2	60.1	79.2	94.4	124.0	170.7
65°	0.0	0.0	1.0	2.9	3.8	22.9	30.5	49.6	67.7	105.9
67.5°	0.0	0.0	1.0	1.9	2.9	5.7	10.5	18.1	36.2	60.1
70°	0.0	0.0	1.0	1.9	2.9	4.8	7.6	11.4	16.2	32.4
72.5°	0.0	0.0	1.0	1.0	1.9	4.8	5.7	7.6	11.4	16.2
75°	0.0	0.0	1.0	1.0	2.9	5.7	4.8	5.7	7.6	10.5
77.5°	0.0	0.0	1.0	1.9	2.9	5.7	4.8	5.7	5.7	6.7
80°	0.0	0.0	1.0	1.9	3.8	6.7	5.7	5.7	4.8	4.8
82.5°	0.0	0.0	1.0	2.9	3.8	8.6	8.6	7.6	3.8	2.9
85°	0.0	0.0	1.9	3.8	5.7	9.5	9.5	7.6	2.9	1.9
87.5°	0.0	0.0	1.9	2.9	4.8	6.7	9.5	7.6	2.9	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°
5154.2	0°	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2	5154.2
5138.0	2.5°	5163.8	5158.1	5177.1	5184.8	5195.3	5155.2	5130.4	5131.4	5085.6
5079.9	5°	5110.4	5111.3	5136.1	5134.2	5144.7	5122.8	5113.2	5097.0	5057.0
5006.4	7.5°	5042.7	5034.1	5057.9	5076.0	5049.3	5064.6	5042.7	5050.3	5026.4
4941.6	10°	4990.2	4970.2	4992.1	5004.5	5005.5	4990.2	4969.2	4949.2	4940.6
4840.5	12.5°	4873.8	4848.1	4885.3	4902.4	4899.6	4870.0	4846.2	4850.9	4823.3
4663.0	15°	4713.6	4714.6	4741.3	4757.5	4742.2	4735.5	4737.4	4726.0	4702.2
4417.9	17.5°	4468.5	4482.8	4553.4	4592.5	4601.1	4587.7	4581.0	4567.7	4543.8
4026.9	20°	4060.3	4146.1	4272.0	4393.1	4417.0	4413.2	4389.3	4383.6	4370.2
3639.6	22.5°	3701.6	3765.5	3911.5	4100.3	4197.6	4207.1	4178.5	4169.9	4155.6
3293.4	25°	3330.6	3399.3	3530.9	3736.0	3937.2	3978.2	3973.5	3947.7	3932.4
2986.3	27.5°	3017.8	3086.4	3205.7	3390.7	3606.3	3737.9	3750.3	3709.3	3708.3
2712.6	30°	2735.5	2829.9	2920.5	3071.2	3280.1	3477.5	3498.5	3469.9	3472.7
2461.7	32.5°	2514.2	2592.4	2669.6	2770.7	2944.3	3174.2	3256.2	3229.5	3219.0
2252.8	35°	2288.1	2341.5	2420.7	2513.2	2631.5	2859.4	3001.6	2981.5	2971.0
1970.5	37.5°	2030.6	2122.2	2179.4	2283.4	2375.9	2557.1	2757.4	2754.5	2732.6
1730.2	40°	1766.4	1862.7	1949.5	2054.4	2126.0	2270.0	2492.2	2491.3	2494.1
1481.2	42.5°	1527.0	1615.7	1720.6	1835.1	1903.8	2008.7	2247.1	2260.5	2276.7
1276.2	45°	1310.5	1390.6	1487.9	1627.2	1710.1	1770.2	1982.0	2043.0	2042.1
1093.0	47.5°	1115.9	1191.3	1273.3	1408.7	1514.6	1569.0	1744.5	1831.3	1825.5
896.6	50°	936.6	1003.4	1089.2	1187.5	1329.6	1377.3	1507.9	1622.4	1613.8
714.4	52.5°	753.5	846.0	918.5	1008.1	1157.9	1204.6	1305.7	1417.3	1410.6
536.0	55°	587.5	677.2	764.9	842.2	968.1	1037.7	1110.2	1224.7	1222.8
419.7	57.5°	444.5	542.7	625.7	699.1	799.3	885.1	943.3	1047.3	1060.6
287.1	60°	329.1	404.4	494.1	576.1	655.2	744.0	783.1	885.1	890.8
196.5	62.5°	224.1	307.1	394.9	469.3	528.4	620.0	655.2	739.2	749.7
125.9	65°	155.5	208.9	309.0	362.4	434.9	513.1	548.4	615.2	636.2
72.5	67.5°	103.0	148.8	241.3	290.0	361.5	414.9	459.7	514.1	537.0
45.8	70°	56.3	109.7	172.6	228.9	290.9	342.4	386.3	430.2	450.2
21.0	72.5°	38.2	73.4	120.2	181.2	234.6	285.2	324.3	356.7	357.7
12.4	75°	19.1	49.6	91.6	140.2	183.1	232.7	268.0	287.1	264.2
7.6	77.5°	11.4	36.2	74.4	112.5	148.8	187.9	207.9	218.4	181.2
5.7	80°	6.7	25.8	58.2	89.7	103.0	138.3	157.4	160.2	121.1
3.8	82.5°	4.8	19.1	45.8	65.8	62.9	97.3	118.3	114.5	77.3
2.9	85°	2.9	13.4	28.6	41.0	38.2	63.9	68.7	70.6	44.8
1.9	87.5°	1.9	7.6	15.3	21.9	18.1	27.7	27.7	33.4	21.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5154.2
5026.4
5047.4
4986.4
4902.4
4799.4
4678.3
4533.3
4339.7
4151.8
3916.2
3706.4
3458.4
3220.0
2956.7
2750.7
2494.1
2268.1
2044.0
1827.4
1621.4
1425.0
1227.5
1054.9
899.4
751.6
631.4
534.1
442.6
349.1
247.0
174.5
113.5
71.5
41.0
19.1
0.0

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