

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: P636650

Luminaire Tested: **IFLD-S-SA2A-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636650
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5311.7 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G0

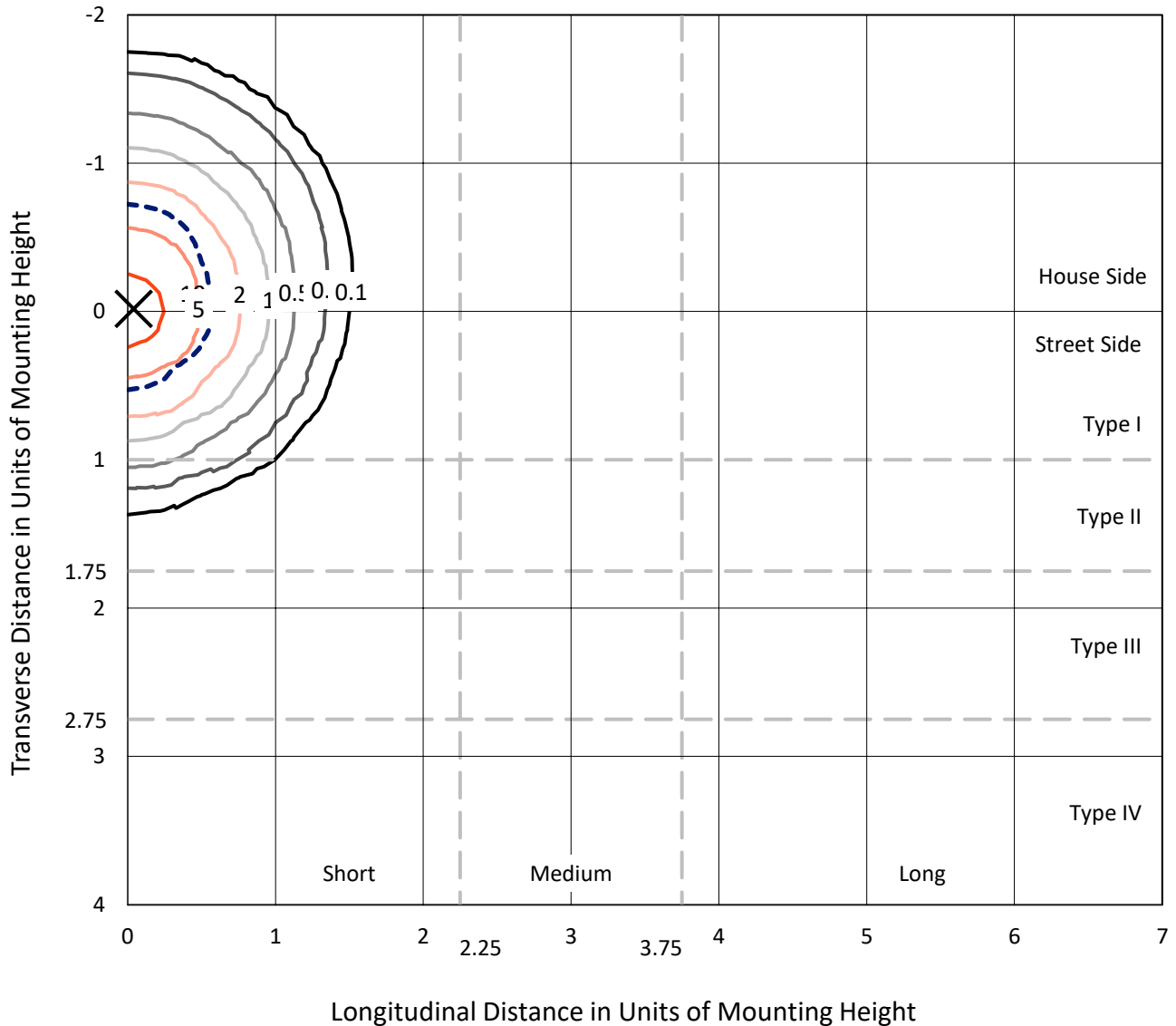
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

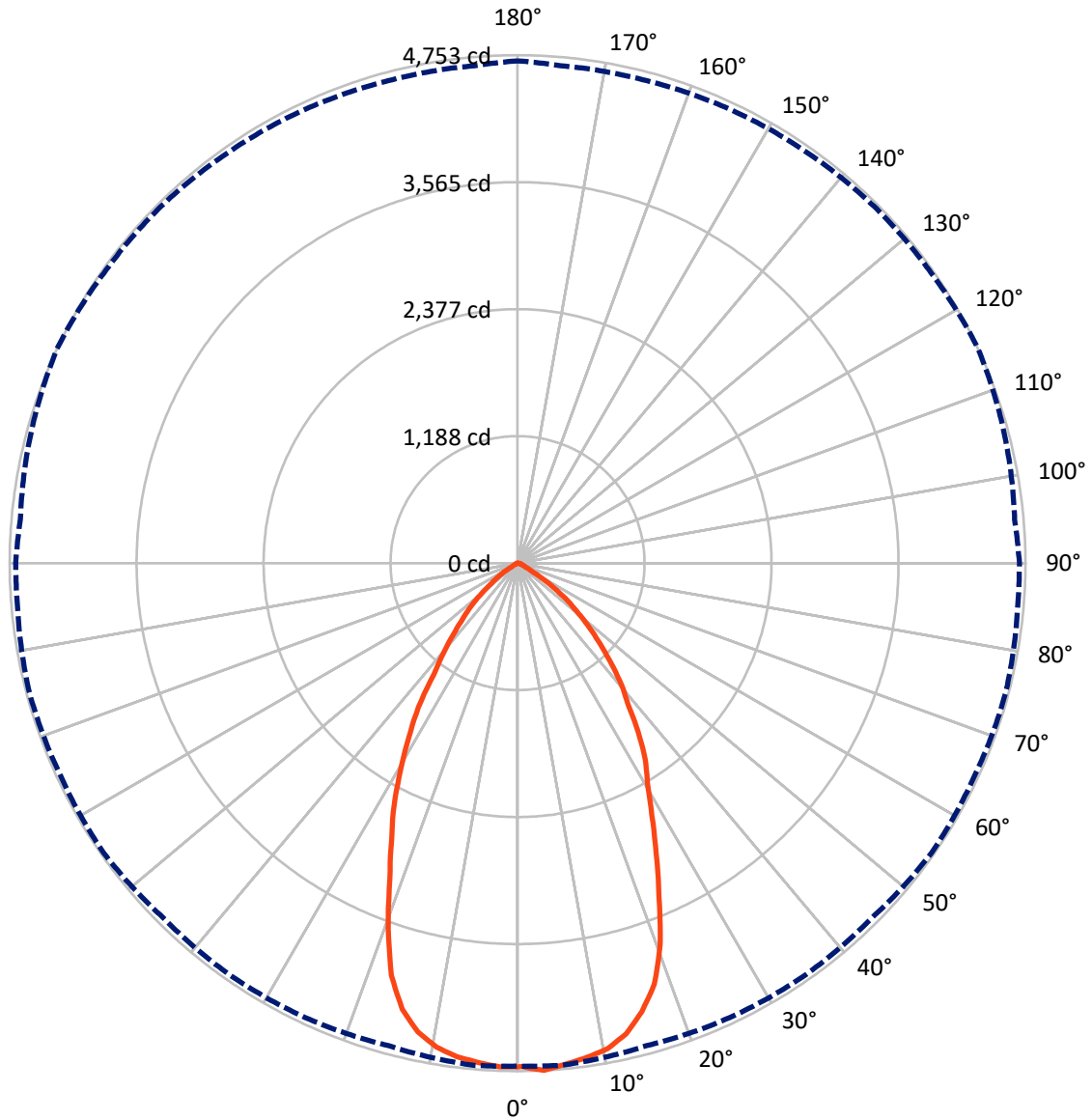
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3039.8	0.0	3039.8
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	2271.9	0.0	2271.9
	% Fixture	42.8	0.0	42.8
Total	Lumens	5311.7	0.0	5311.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.9	8.4
10°-20°	1177.0	22.2
20°-30°	1346.2	25.3
30°-40°	1153.7	21.7
40°-50°	762.8	14.4
50°-60°	332.9	6.3
60°-70°	65.4	1.2
70°-80°	23.6	0.4
80°-90°	6.3	0.1
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°	5311.7	100.0
0°-180°	5311.7	100.0



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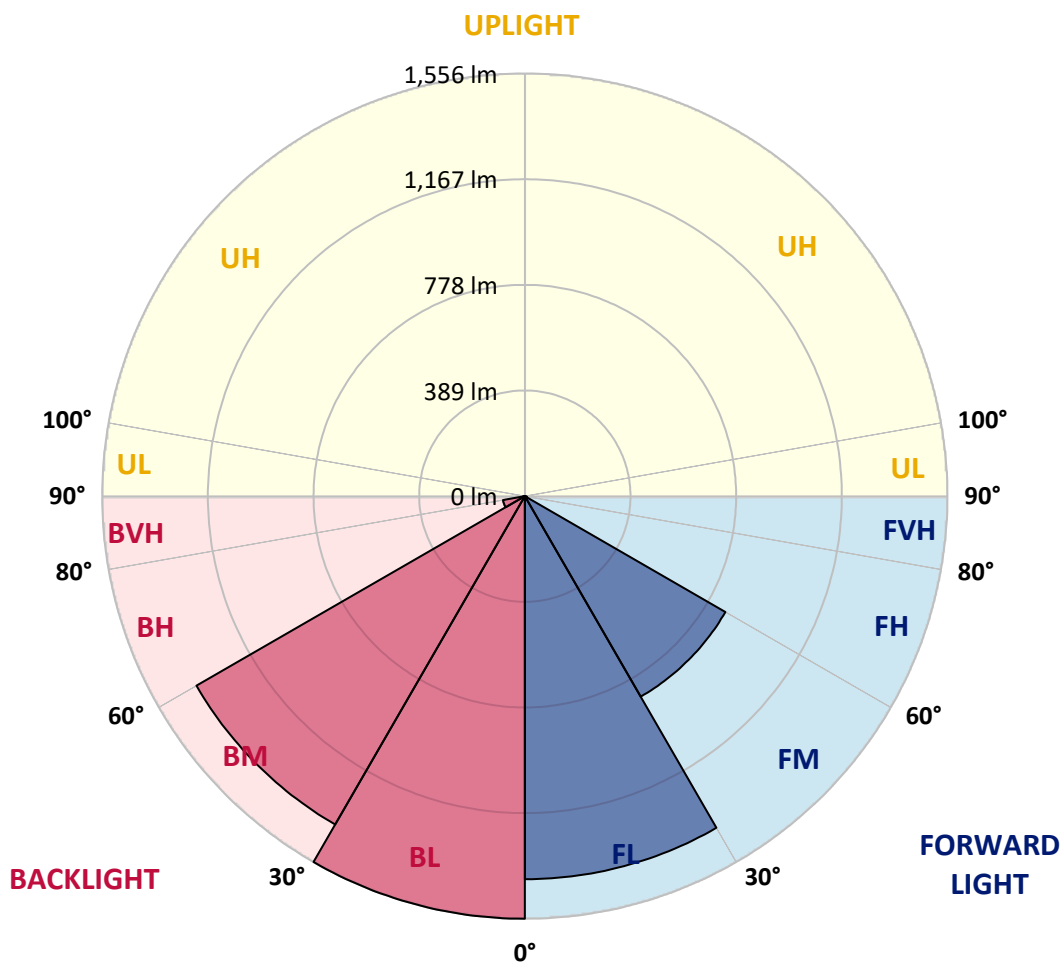
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.7	26.6			
FM (30°-60°)	852.9	16.1			
FH (60°-80°)	7.2	0.1			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	1556.4	29.3	B3/2500		
BM (30°-60°)	1396.4	26.3	B2/2500		
BH (60°-80°)	81.8	1.5	B0/110		G0/110
BVH (80°-90°)	5.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8
2.5°	4706.0	4717.3	4674.4	4693.6	4701.5	4691.3	4728.6	4717.3	4726.3	4698.1
5°	4706.0	4717.3	4667.6	4676.7	4678.9	4659.7	4700.4	4686.8	4688.0	4658.6
7.5°	4676.7	4690.2	4645.1	4651.8	4653.0	4637.1	4672.2	4653.0	4646.2	4615.7
10°	4597.6	4605.5	4564.9	4581.8	4597.6	4583.0	4613.4	4592.0	4592.0	4564.9
12.5°	4472.3	4487.0	4441.8	4462.1	4475.7	4458.8	4493.8	4485.9	4487.0	4459.9
15°	4244.2	4193.4	4247.6	4288.3	4289.4	4286.0	4318.7	4310.8	4316.5	4275.8
17.5°	3135.5	3123.0	3186.3	3666.1	4022.9	4071.5	4077.1	4034.2	4015.0	3975.5
20°	2905.1	2914.2	2900.6	2902.9	3184.0	3767.8	3732.8	3626.6	3578.1	3538.5
22.5°	2736.9	2722.2	2713.2	2707.5	2715.4	3095.9	3347.7	3187.4	3161.4	3142.2
25°	2554.0	2547.2	2535.9	2533.7	2529.1	2464.8	2827.2	2841.9	2800.1	2776.4
27.5°	2383.5	2379.0	2366.6	2365.4	2313.5	2157.7	2197.2	2546.1	2534.8	2525.8
30°	2201.7	2192.7	2185.9	2185.9	2029.0	1868.6	1804.3	2219.8	2219.8	2211.9
32.5°	2004.1	1996.2	1998.5	1971.4	1784.0	1637.2	1535.6	1916.1	2034.6	2027.8
35°	1225.1	1222.8	1452.0	1753.5	1533.3	1400.1	1393.3	1639.4	1812.2	1830.2
37.5°	1090.7	1083.9	1087.3	1106.5	1313.1	1260.1	1257.8	1299.6	1542.3	1551.4
40°	978.9	974.4	971.0	902.1	836.7	1124.6	1116.7	1089.6	1317.6	1333.4
42.5°	872.8	868.3	868.3	771.2	665.0	924.7	928.1	896.5	1111.0	1116.7
45°	763.3	759.9	740.7	615.4	584.9	614.2	768.9	732.8	881.8	940.5
47.5°	360.2	357.9	518.2	511.5	509.2	491.2	587.1	607.4	700.0	758.7
50°	289.0	286.8	273.2	240.5	418.9	372.6	423.4	467.4	496.8	551.0
52.5°	239.4	237.1	208.9	185.2	232.6	272.1	252.9	312.8	311.6	370.3
55°	156.9	145.7	160.3	151.3	121.9	197.6	193.1	237.1	231.5	282.3
57.5°	3.4	3.4	7.9	85.8	76.8	83.6	110.7	135.5	152.4	167.1
60°	1.1	1.1	2.3	4.5	31.6	35.0	42.9	49.7	70.0	86.9
62.5°	0.0	0.0	1.1	2.3	4.5	18.1	20.3	23.7	32.7	45.2
65°	0.0	0.0	0.0	1.1	2.3	4.5	6.8	14.7	20.3	26.0
67.5°	0.0	0.0	0.0	1.1	1.1	2.3	4.5	6.8	9.0	18.1
70°	0.0	0.0	0.0	1.1	1.1	2.3	3.4	4.5	6.8	9.0
72.5°	0.0	0.0	0.0	1.1	1.1	3.4	2.3	3.4	4.5	5.6
75°	0.0	0.0	0.0	1.1	1.1	1.1	2.3	3.4	3.4	4.5
77.5°	0.0	0.0	0.0	1.1	2.3	2.3	2.3	2.3	2.3	3.4
80°	0.0	0.0	0.0	1.1	1.1	2.3	3.4	4.5	2.3	2.3
82.5°	0.0	0.0	0.0	2.3	1.1	4.5	6.8	5.6	2.3	1.1
85°	0.0	0.0	0.0	1.1	4.5	5.6	5.6	3.4	1.1	1.1
87.5°	0.0	0.0	0.0	1.1	1.1	2.3	3.4	3.4	1.1	1.1
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°
4712.8	0°	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8	4712.8
4695.9	2.5°	4669.9	4713.9	4753.4	4728.6	4719.6	4701.5	4688.0	4673.3	4672.2
4655.2	5°	4629.2	4671.0	4709.4	4680.1	4682.3	4673.3	4664.2	4660.9	4663.1
4613.4	7.5°	4594.2	4629.2	4671.0	4646.2	4653.0	4647.3	4642.8	4636.0	4646.2
4559.2	10°	4541.2	4572.8	4621.3	4597.6	4594.2	4588.6	4584.1	4571.7	4577.3
4461.0	12.5°	4424.9	4464.4	4519.7	4492.6	4501.7	4485.9	4479.1	4471.2	4472.3
4290.5	15°	4266.8	4297.3	4353.7	4332.3	4339.1	4328.9	4328.9	4328.9	4336.8
3981.2	17.5°	3991.3	4053.4	4142.6	4115.5	4125.7	4127.9	4125.7	4133.6	4143.7
3540.8	20°	3543.1	3649.2	3811.8	3864.9	3886.3	3887.4	3871.6	3890.8	3911.1
3128.7	22.5°	3131.0	3242.7	3386.1	3531.8	3622.1	3617.6	3619.8	3632.3	3653.7
2761.7	25°	2774.2	2881.4	3011.3	3141.1	3338.7	3379.3	3380.5	3391.8	3408.7
2511.1	27.5°	2516.7	2558.5	2677.1	2808.0	3020.3	3150.1	3143.4	3153.5	3171.6
2197.2	30°	2206.2	2366.6	2393.7	2473.8	2656.7	2895.0	2896.1	2907.4	2925.5
2012.0	32.5°	2006.4	2112.5	2196.1	2198.3	2354.1	2599.2	2647.7	2659.0	2671.4
1820.1	35°	1819.0	1831.4	1944.3	1975.9	2066.2	2309.0	2394.8	2401.6	2421.9
1548.0	37.5°	1573.9	1647.3	1678.9	1791.9	1796.4	1992.8	2163.3	2156.6	2172.4
1332.3	40°	1349.3	1419.3	1499.4	1581.8	1593.1	1739.9	1928.5	1935.3	1942.0
1105.4	42.5°	1114.4	1203.6	1286.0	1341.4	1418.1	1502.8	1682.3	1713.9	1729.8
947.3	45°	964.2	989.1	1087.3	1168.6	1246.5	1286.0	1454.3	1511.8	1522.0
749.7	47.5°	759.9	843.4	910.0	978.9	1076.0	1111.0	1233.0	1313.1	1321.0
556.6	50°	587.1	647.0	738.4	800.5	913.4	932.6	1016.2	1120.1	1130.2
372.6	52.5°	420.0	501.3	590.5	650.4	758.7	783.6	845.7	945.0	951.8
285.7	55°	301.5	354.5	427.9	513.7	592.8	648.1	691.0	785.8	794.9
187.4	57.5°	205.5	255.2	285.7	371.5	418.9	478.7	513.7	586.0	592.8
89.2	60°	98.2	121.9	145.7	188.6	219.0	269.9	292.4	321.8	329.7
54.2	62.5°	63.2	74.5	94.8	112.9	142.3	173.9	182.9	207.8	216.8
33.9	65°	41.8	53.1	74.5	79.0	108.4	133.2	144.5	162.6	172.7
20.3	67.5°	23.7	37.3	55.3	65.5	85.8	109.5	121.9	137.7	146.8
13.5	70°	15.8	30.5	44.0	54.2	67.7	88.1	103.9	117.4	123.1
6.8	72.5°	9.0	19.2	30.5	42.9	54.2	73.4	88.1	99.4	65.5
4.5	75°	5.6	14.7	26.0	36.1	45.2	58.7	71.1	70.0	29.4
3.4	77.5°	4.5	11.3	22.6	30.5	37.3	40.6	50.8	57.6	22.6
2.3	80°	3.4	9.0	20.3	26.0	14.7	29.4	39.5	42.9	15.8
2.3	82.5°	2.3	5.6	16.9	18.1	10.2	21.5	31.6	28.2	11.3
1.1	85°	1.1	3.4	5.6	10.2	9.0	10.2	7.9	11.3	7.9
1.1	87.5°	1.1	2.3	4.5	4.5	4.5	3.4	4.5	4.5	4.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4712.8
4699.2
4691.3
4674.4
4604.4
4505.0
4340.2
4177.6
3924.7
3657.1
3438.1
3188.5
2957.1
2699.6
2443.3
2191.6
1963.5
1752.3
1546.8
1340.2
1144.9
964.2
802.8
606.3
338.7
219.0
172.7
145.7
121.9
53.1
29.4
22.6
16.9
11.3
7.9
4.5
0.0

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