

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: P636624

Luminaire Tested: **IFLD-S-SA2D-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636624
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8268.4 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

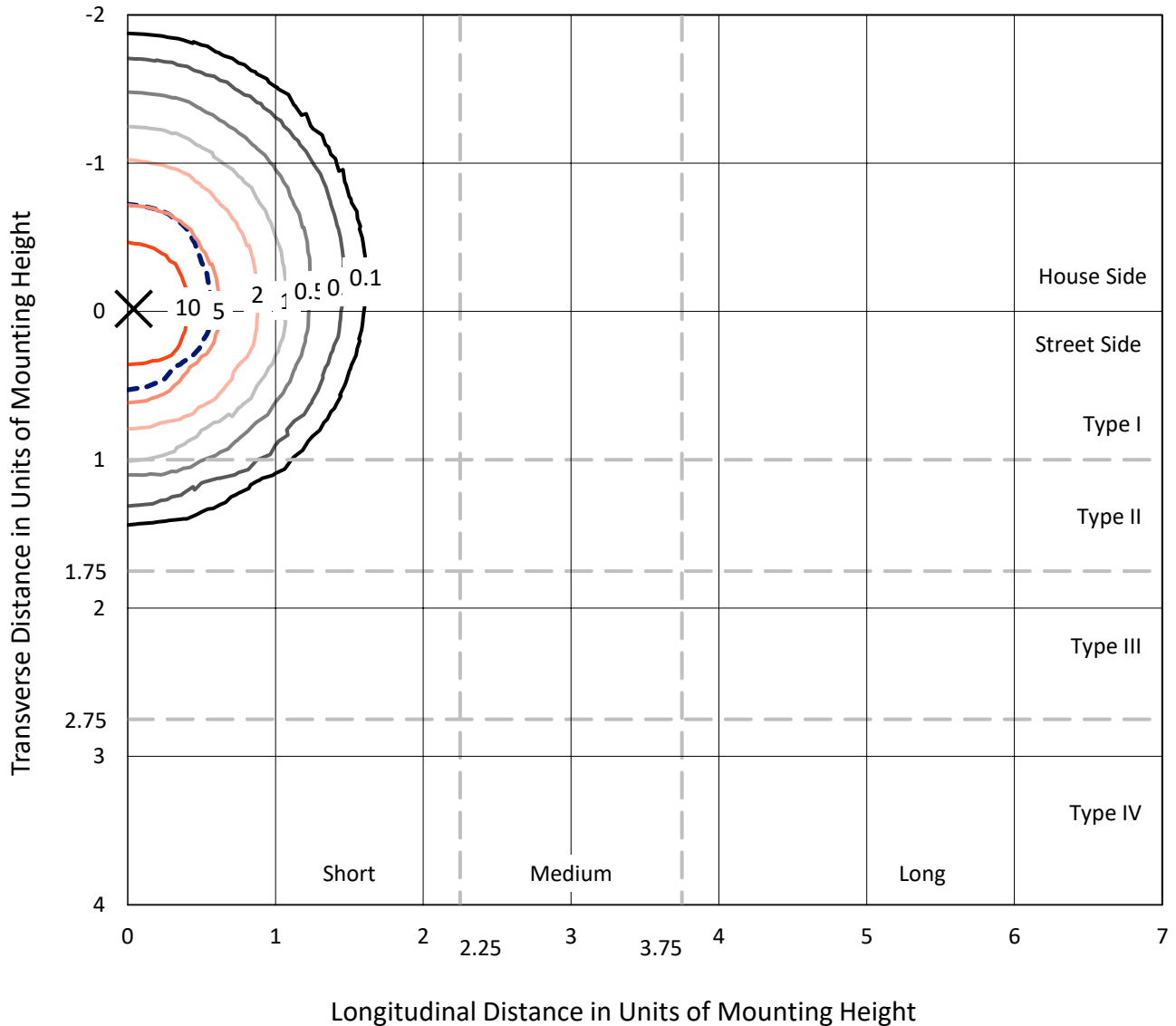
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

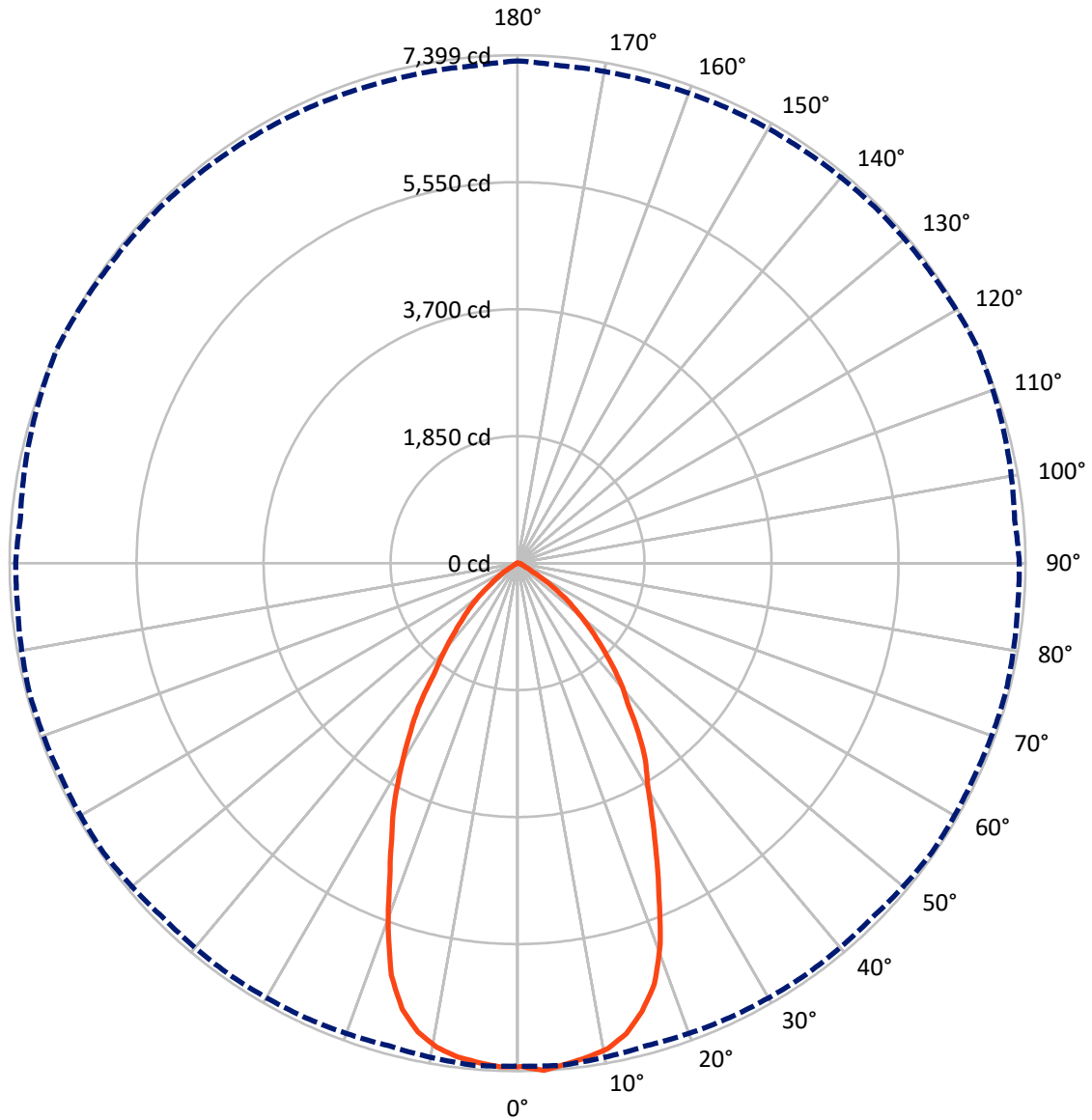
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.3 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	4731.9	0.0	4731.9
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	3536.5	0.0	3536.5
	% Fixture	42.8	0.0	42.8
Total	Lumens	8268.4	0.0	8268.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.0	8.4
10°-20°	1832.1	22.2
20°-30°	2095.5	25.3
30°-40°	1795.8	21.7
40°-50°	1187.5	14.4
50°-60°	518.2	6.3
60°-70°	101.8	1.2
70°-80°	36.7	0.4
80°-90°	9.8	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°	8268.4	100.0
0°-180°	8268.4	100.0



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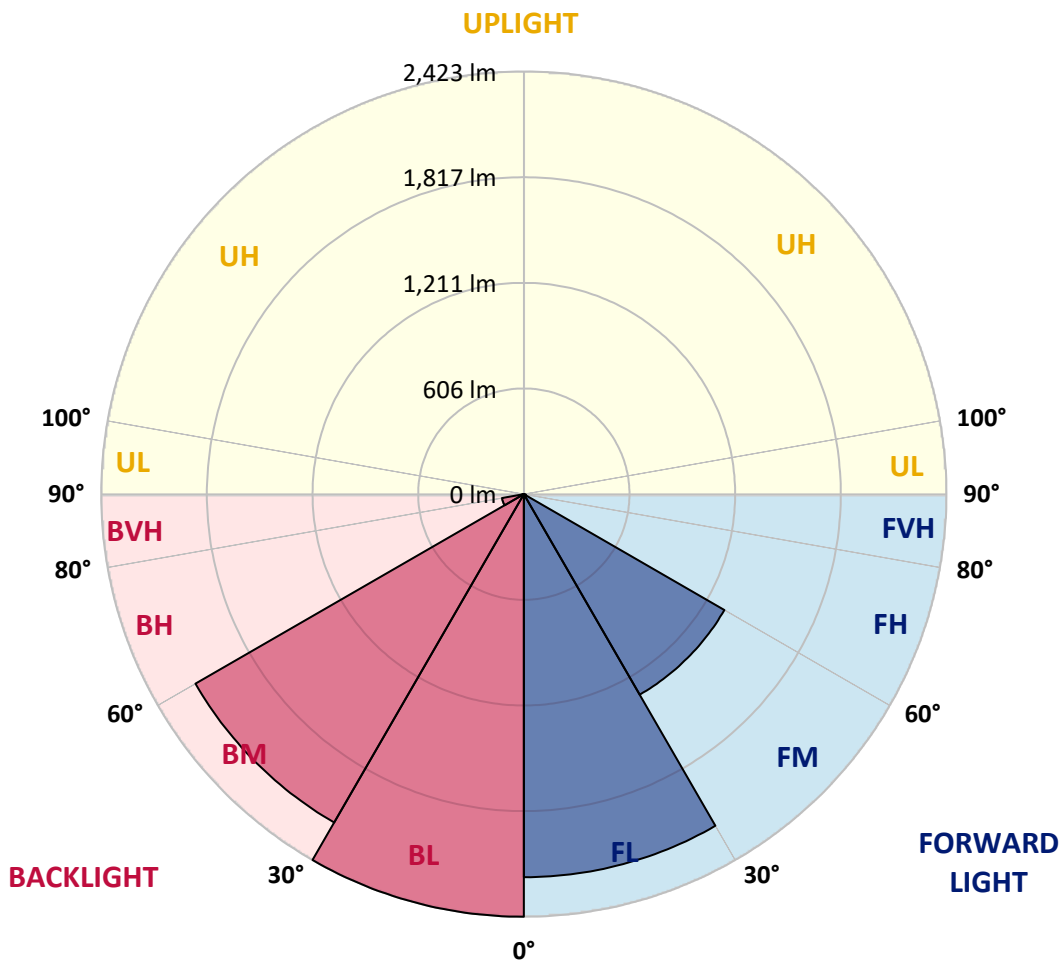
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2195.9	26.6			
FM (30°-60°)	1327.7	16.1			
FH (60°-80°)	11.2	0.1			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	2422.7	29.3	B3/2500		
BM (30°-60°)	2173.7	26.3	B2/2500		
BH (60°-80°)	127.3	1.5	B1/500		G1/500
BVH (80°-90°)	8.2	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1
2.5°	7325.6	7343.1	7276.4	7306.2	7318.5	7302.7	7360.7	7343.1	7357.2	7313.3
5°	7325.6	7343.1	7265.8	7279.9	7283.4	7253.5	7316.8	7295.7	7297.5	7251.8
7.5°	7279.9	7301.0	7230.7	7241.2	7243.0	7218.4	7272.8	7243.0	7232.4	7185.0
10°	7156.8	7169.1	7105.9	7132.2	7156.8	7134.0	7181.5	7148.1	7148.1	7105.9
12.5°	6961.8	6984.6	6914.3	6945.9	6967.0	6940.7	6995.1	6982.8	6984.6	6942.4
15°	6606.7	6527.6	6612.0	6675.3	6677.0	6671.8	6722.7	6710.4	6719.2	6655.9
17.5°	4880.8	4861.5	4959.9	5706.8	6262.2	6337.8	6346.6	6279.8	6249.9	6188.4
20°	4522.2	4536.3	4515.2	4518.7	4956.4	5865.0	5810.5	5645.3	5569.8	5508.2
22.5°	4260.4	4237.5	4223.5	4214.7	4227.0	4819.3	5211.2	4961.6	4921.2	4891.3
25°	3975.6	3965.1	3947.5	3944.0	3937.0	3836.8	4401.0	4423.8	4358.8	4321.9
27.5°	3710.2	3703.2	3683.9	3682.1	3601.3	3358.7	3420.2	3963.3	3945.8	3931.7
30°	3427.3	3413.2	3402.7	3402.7	3158.4	2908.8	2808.6	3455.4	3455.4	3443.1
32.5°	3119.7	3107.4	3110.9	3068.7	2777.0	2548.5	2390.3	2982.6	3167.2	3156.6
35°	1907.0	1903.5	2260.2	2729.5	2386.8	2179.4	2168.8	2552.0	2820.9	2849.0
37.5°	1697.8	1687.3	1692.5	1722.4	2044.1	1961.5	1957.9	2023.0	2400.8	2414.9
40°	1523.8	1516.8	1511.5	1404.3	1302.4	1750.5	1738.2	1696.1	2051.1	2075.7
42.5°	1358.6	1351.6	1351.6	1200.4	1035.2	1439.5	1444.7	1395.5	1729.5	1738.2
45°	1188.1	1182.8	1153.0	957.9	910.4	956.1	1196.9	1140.7	1372.7	1464.1
47.5°	560.7	557.2	806.7	796.2	792.7	764.5	913.9	945.6	1089.7	1181.1
50°	449.9	446.4	425.3	374.4	652.1	580.0	659.1	727.6	773.3	857.7
52.5°	372.6	369.1	325.2	288.2	362.1	423.6	393.7	486.8	485.1	576.5
55°	244.3	226.7	249.6	235.5	189.8	307.6	300.5	369.1	360.3	439.4
57.5°	5.3	5.3	12.3	133.6	119.5	130.1	172.2	210.9	237.3	260.1
60°	1.8	1.8	3.5	7.0	49.2	54.5	66.8	77.3	109.0	135.3
62.5°	0.0	0.0	1.8	3.5	7.0	28.1	31.6	36.9	51.0	70.3
65°	0.0	0.0	0.0	1.8	3.5	7.0	10.5	22.8	31.6	40.4
67.5°	0.0	0.0	0.0	1.8	1.8	3.5	7.0	10.5	14.1	28.1
70°	0.0	0.0	0.0	1.8	1.8	3.5	5.3	7.0	10.5	14.1
72.5°	0.0	0.0	0.0	1.8	1.8	5.3	3.5	5.3	7.0	8.8
75°	0.0	0.0	0.0	1.8	1.8	1.8	3.5	5.3	5.3	7.0
77.5°	0.0	0.0	0.0	1.8	3.5	3.5	3.5	3.5	3.5	5.3
80°	0.0	0.0	0.0	1.8	1.8	3.5	5.3	7.0	3.5	3.5
82.5°	0.0	0.0	0.0	3.5	1.8	7.0	10.5	8.8	3.5	1.8
85°	0.0	0.0	0.0	1.8	7.0	8.8	8.8	5.3	1.8	1.8
87.5°	0.0	0.0	0.0	1.8	1.8	3.5	5.3	5.3	1.8	1.8
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°
7336.1	0°	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1	7336.1
7309.8	2.5°	7269.3	7337.9	7399.4	7360.7	7346.7	7318.5	7297.5	7274.6	7272.8
7246.5	5°	7206.1	7271.1	7330.8	7285.1	7288.7	7274.6	7260.5	7255.3	7258.8
7181.5	7.5°	7151.6	7206.1	7271.1	7232.4	7243.0	7234.2	7227.1	7216.6	7232.4
7097.1	10°	7069.0	7118.2	7193.8	7156.8	7151.6	7142.8	7135.8	7116.4	7125.2
6944.2	12.5°	6887.9	6949.5	7035.6	6993.4	7007.5	6982.8	6972.3	6960.0	6961.8
6678.8	15°	6641.9	6689.3	6777.2	6743.8	6754.4	6738.5	6738.5	6738.5	6750.8
6197.2	17.5°	6213.0	6309.7	6448.5	6406.4	6422.2	6425.7	6422.2	6434.5	6450.3
5511.8	20°	5515.3	5680.5	5933.6	6016.2	6049.6	6051.3	6026.7	6056.6	6088.2
4870.2	22.5°	4873.8	5047.8	5271.0	5497.7	5638.3	5631.3	5634.8	5654.1	5687.5
4299.0	25°	4318.4	4485.3	4687.5	4889.6	5197.1	5260.4	5262.2	5279.8	5306.1
3908.8	27.5°	3917.6	3982.7	4167.2	4371.1	4701.5	4903.6	4893.1	4908.9	4937.0
3420.2	30°	3434.3	3683.9	3726.1	3850.8	4135.6	4506.4	4508.2	4525.8	4553.9
3132.0	32.5°	3123.2	3288.4	3418.5	3422.0	3664.5	4045.9	4121.5	4139.1	4158.4
2833.2	35°	2831.5	2850.8	3026.5	3075.8	3216.4	3594.2	3727.8	3738.4	3770.0
2409.6	37.5°	2450.1	2564.3	2613.5	2789.3	2796.3	3102.1	3367.5	3357.0	3381.6
2073.9	40°	2100.3	2209.3	2334.1	2462.4	2479.9	2708.4	3001.9	3012.5	3023.0
1720.7	42.5°	1734.7	1873.6	2001.9	2088.0	2207.5	2339.3	2618.8	2668.0	2692.6
1474.6	45°	1501.0	1539.6	1692.5	1819.1	1940.4	2001.9	2263.8	2353.4	2369.2
1167.0	47.5°	1182.8	1312.9	1416.6	1523.8	1675.0	1729.5	1919.3	2044.1	2056.4
866.5	50°	913.9	1007.1	1149.5	1246.1	1421.9	1451.8	1581.8	1743.5	1759.3
580.0	52.5°	653.8	780.4	919.2	1012.4	1181.1	1219.8	1316.4	1471.1	1481.6
444.7	55°	469.3	551.9	666.1	799.7	922.7	1008.8	1075.6	1223.3	1237.3
291.8	57.5°	319.9	397.2	444.7	578.2	652.1	745.2	799.7	912.2	922.7
138.8	60°	152.9	189.8	226.7	293.5	341.0	420.1	455.2	500.9	513.2
84.4	62.5°	98.4	116.0	147.6	175.8	221.5	270.7	284.7	323.4	337.5
52.7	65°	65.0	82.6	116.0	123.0	168.7	207.4	225.0	253.1	268.9
31.6	67.5°	36.9	58.0	86.1	101.9	133.6	170.5	189.8	214.4	228.5
21.1	70°	24.6	47.5	68.5	84.4	105.5	137.1	161.7	182.8	191.6
10.5	72.5°	14.1	29.9	47.5	66.8	84.4	114.2	137.1	154.7	101.9
7.0	75°	8.8	22.8	40.4	56.2	70.3	91.4	110.7	109.0	45.7
5.3	77.5°	7.0	17.6	35.2	47.5	58.0	63.3	79.1	89.6	35.2
3.5	80°	5.3	14.1	31.6	40.4	22.8	45.7	61.5	66.8	24.6
3.5	82.5°	3.5	8.8	26.4	28.1	15.8	33.4	49.2	43.9	17.6
1.8	85°	1.8	5.3	8.8	15.8	14.1	15.8	12.3	17.6	12.3
1.8	87.5°	1.8	3.5	7.0	7.0	7.0	5.3	7.0	7.0	7.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7336.1
7315.0
7302.7
7276.4
7167.4
7012.7
6756.1
6503.0
6109.3
5692.8
5351.8
4963.4
4603.1
4202.4
3803.4
3411.5
3056.4
2727.8
2407.9
2086.2
1782.2
1501.0
1249.6
943.8
527.3
341.0
268.9
226.7
189.8
82.6
45.7
35.2
26.4
17.6
12.3
7.0
0.0

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