

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: P638042

Luminaire Tested: **IFLD-S-SA2A-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638042
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5230.8 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

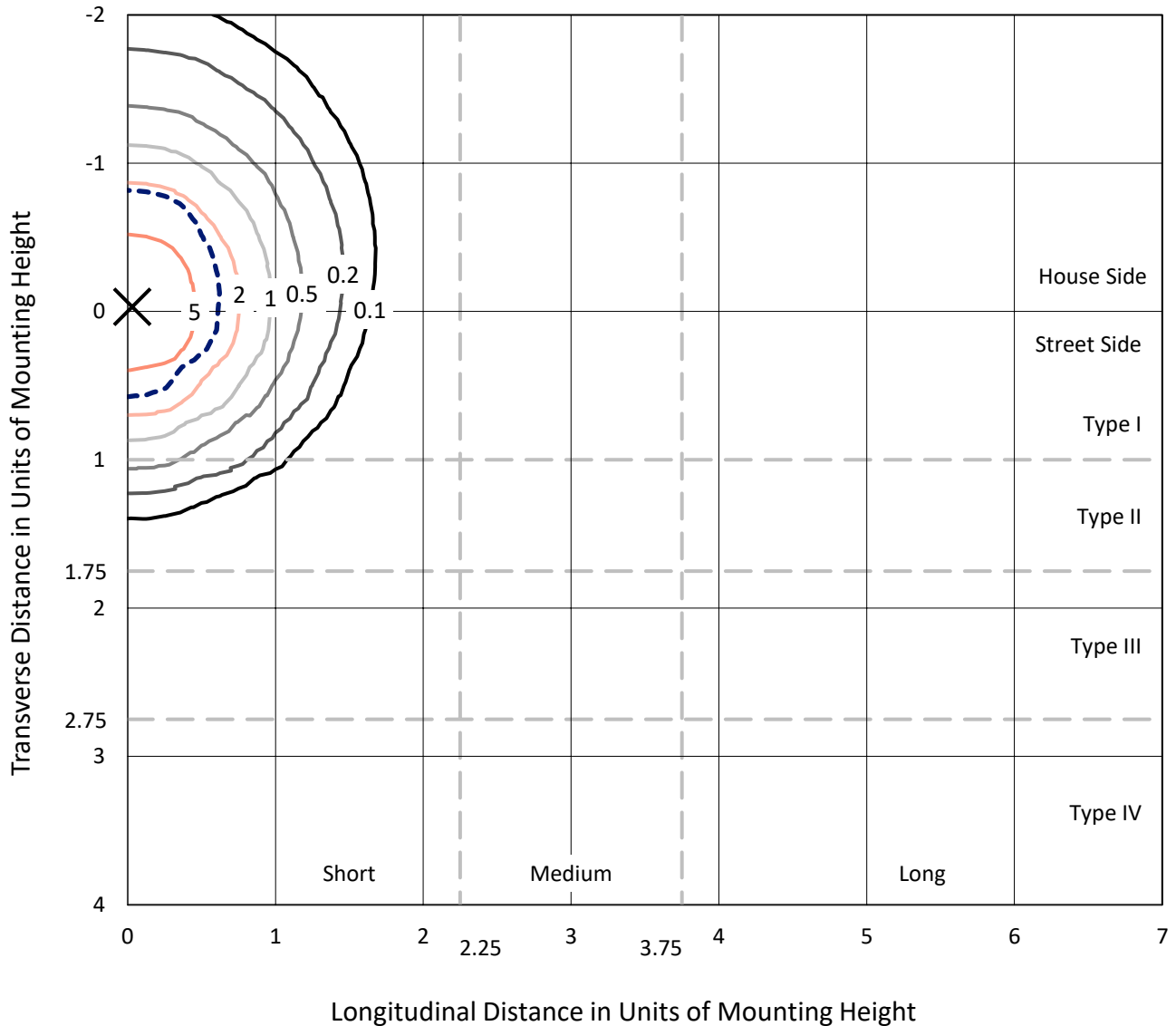
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

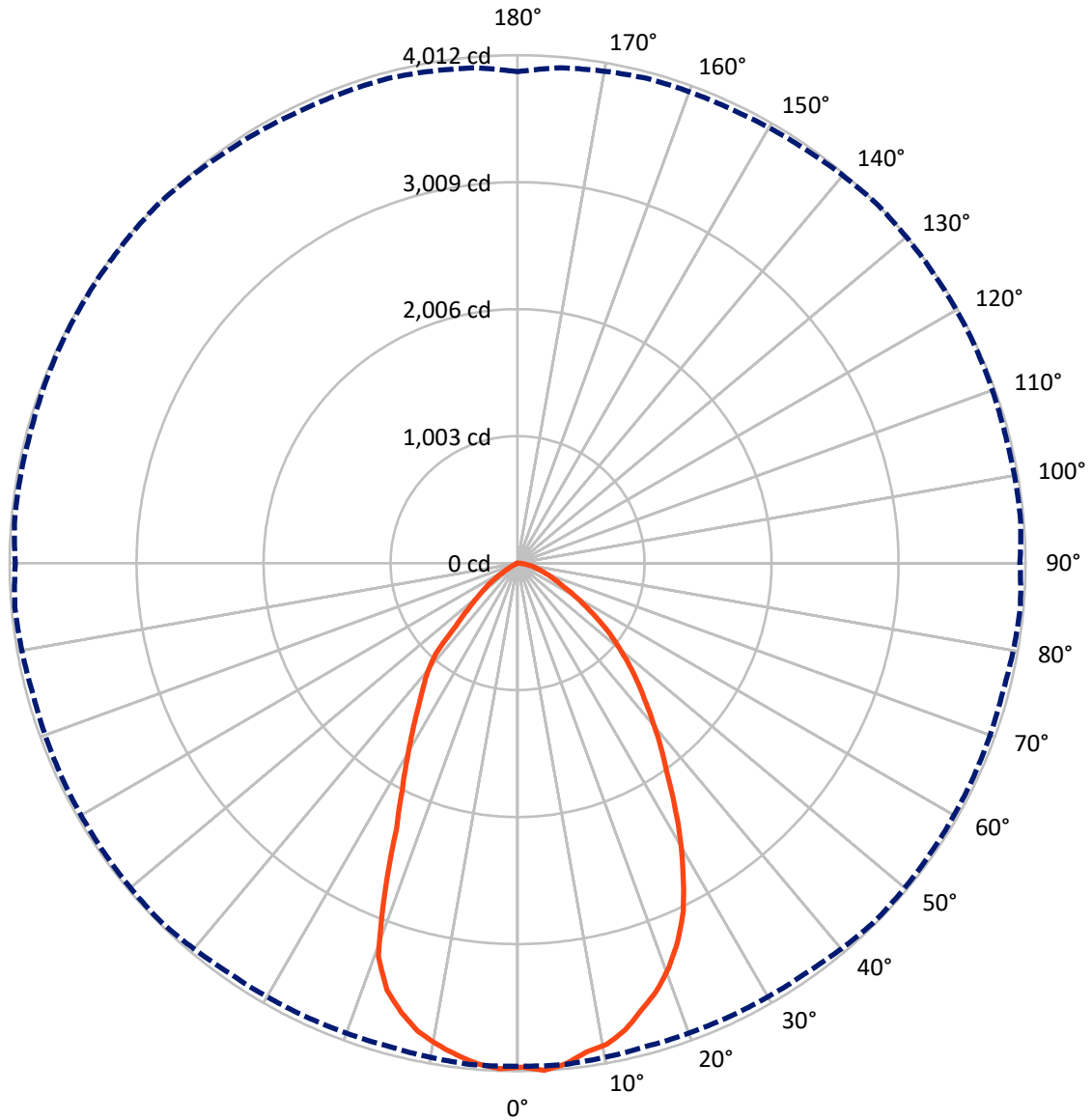
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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	3097.9	0.0	3097.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2132.9	0.0	2132.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	5230.8	0.0	5230.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	7.1
10°-20°	1001.1	19.1
20°-30°	1220.9	23.3
30°-40°	1114.6	21.3
40°-50°	805.5	15.4
50°-60°	439.8	8.4
60°-70°	181.9	3.5
70°-80°	73.6	1.4
80°-90°	20.0	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°	5230.8	100.0
0°-180°	5230.8	100.0



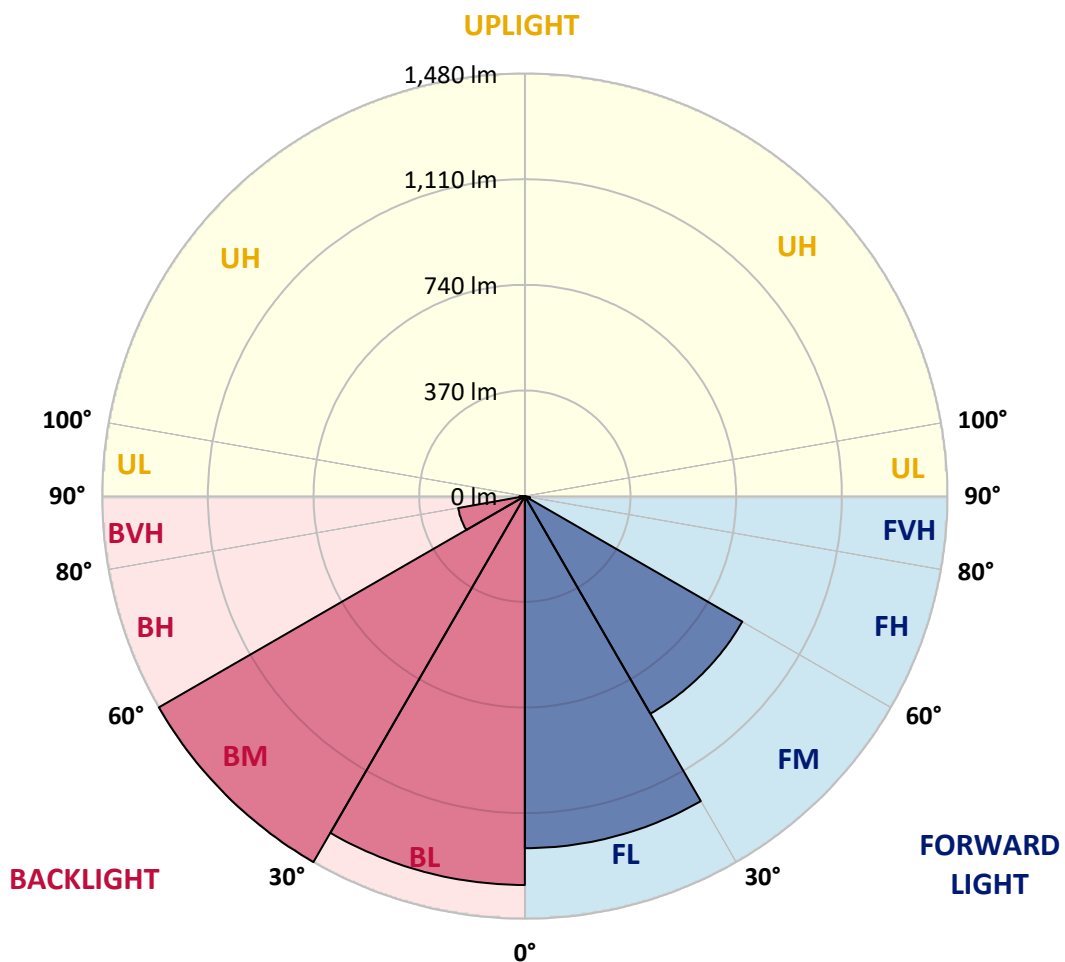
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.1	23.6			
FM (30°-60°)	879.7	16.8			
FH (60°-80°)	18.4	0.4			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1362.2	26.0	B3/2500		
BM (30°-60°)	1480.3	28.3	B2/2500		
BH (60°-80°)	237.1	4.5	B1/500		G1/500
BVH (80°-90°)	18.4	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°	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6
2.5°	3973.3	3978.4	3950.4	3953.4	3958.5	3996.1	3986.5	3977.7	3965.2	3986.5
5°	3968.1	3971.0	3941.6	3931.3	3935.7	3969.6	3938.6	3938.6	3935.7	3932.0
7.5°	3928.3	3929.8	3907.0	3888.5	3900.3	3915.8	3893.0	3904.0	3887.8	3900.3
10°	3868.7	3859.1	3831.8	3826.7	3839.9	3854.7	3839.2	3849.5	3834.8	3844.4
12.5°	3781.0	3766.3	3744.2	3737.5	3760.4	3780.3	3767.7	3761.9	3742.7	3766.3
15°	3442.9	3431.9	3481.9	3569.6	3648.4	3665.4	3652.1	3658.0	3618.2	3624.8
17.5°	2833.7	2813.1	2866.9	3074.6	3370.7	3526.9	3515.1	3476.8	3417.9	3431.1
20°	2575.2	2569.3	2563.4	2612.7	2819.7	3293.4	3309.6	3212.3	3128.4	3110.0
22.5°	2429.3	2427.1	2421.2	2432.3	2486.8	2791.0	2976.6	2886.8	2830.8	2825.6
25°	2296.0	2292.3	2274.6	2288.6	2288.6	2306.3	2544.2	2598.7	2549.4	2543.5
27.5°	2160.5	2153.8	2150.9	2157.5	2123.6	2004.3	2064.7	2330.6	2304.8	2306.3
30°	2013.9	2011.7	2003.6	2017.6	1913.0	1764.9	1726.6	2087.5	2092.7	2091.2
32.5°	1795.8	1805.4	1842.3	1857.7	1685.4	1563.1	1499.0	1806.2	1911.5	1909.3
35°	1304.5	1304.5	1424.6	1647.8	1476.9	1384.8	1350.2	1531.4	1732.5	1739.9
37.5°	1072.5	1076.2	1099.8	1201.4	1274.3	1241.9	1231.6	1289.1	1502.7	1514.5
40°	965.0	965.0	965.0	923.0	920.8	1118.9	1113.0	1094.6	1297.9	1323.7
42.5°	867.0	869.2	870.7	764.6	705.7	967.2	953.9	925.9	1114.5	1144.7
45°	766.1	769.8	774.2	639.4	613.6	696.1	807.3	776.4	933.3	972.3
47.5°	467.7	473.6	573.8	542.1	545.1	537.0	658.5	653.4	765.3	820.6
50°	316.0	318.2	327.8	344.0	467.7	422.1	466.3	540.7	581.2	665.2
52.5°	265.2	268.9	245.3	223.2	307.2	330.0	325.6	401.5	417.7	521.5
55°	186.4	198.1	187.1	184.9	174.6	256.3	246.8	308.6	319.0	396.3
57.5°	19.2	22.1	38.3	137.7	114.2	145.1	176.0	226.1	236.5	292.4
60°	1.5	1.5	3.7	19.2	83.2	86.9	121.5	139.2	159.1	204.0
62.5°	0.0	0.7	1.5	2.9	13.3	46.4	61.1	72.9	95.8	131.9
65°	0.0	0.0	0.7	2.2	2.9	17.7	23.6	38.3	52.3	81.8
67.5°	0.0	0.0	0.7	1.5	2.2	4.4	8.1	14.0	28.0	46.4
70°	0.0	0.0	0.7	1.5	2.2	3.7	5.9	8.8	12.5	25.0
72.5°	0.0	0.0	0.7	0.7	1.5	3.7	4.4	5.9	8.8	12.5
75°	0.0	0.0	0.7	0.7	2.2	4.4	3.7	4.4	5.9	8.1
77.5°	0.0	0.0	0.7	1.5	2.2	4.4	3.7	4.4	4.4	5.2
80°	0.0	0.0	0.7	1.5	2.9	5.2	4.4	4.4	3.7	3.7
82.5°	0.0	0.0	0.7	2.2	2.9	6.6	6.6	5.9	2.9	2.2
85°	0.0	0.0	1.5	2.9	4.4	7.4	7.4	5.9	2.2	1.5
87.5°	0.0	0.0	1.5	2.2	3.7	5.2	7.4	5.9	2.2	0.7
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°
3980.6	0°	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6	3980.6
3968.1	2.5°	3988.0	3983.6	3998.3	4004.2	4012.3	3981.4	3962.2	3962.9	3927.6
3923.2	5°	3946.7	3947.5	3966.6	3965.2	3973.3	3956.3	3948.9	3936.4	3905.5
3866.4	7.5°	3894.4	3887.8	3906.2	3920.2	3899.6	3911.4	3894.4	3900.3	3881.9
3816.4	10°	3853.9	3838.5	3855.4	3865.0	3865.7	3853.9	3837.7	3822.3	3815.6
3738.3	12.5°	3764.1	3744.2	3772.9	3786.2	3783.9	3761.1	3742.7	3746.4	3725.0
3601.3	15°	3640.3	3641.0	3661.7	3674.2	3662.4	3657.3	3658.7	3649.9	3631.5
3412.0	17.5°	3451.0	3462.1	3516.6	3546.8	3553.4	3543.1	3537.9	3527.6	3509.2
3110.0	20°	3135.7	3202.0	3299.3	3392.8	3411.2	3408.3	3389.9	3385.4	3375.1
2810.9	22.5°	2858.8	2908.1	3020.8	3166.7	3241.8	3249.2	3227.1	3220.4	3209.4
2543.5	25°	2572.2	2625.3	2726.9	2885.3	3040.7	3072.4	3068.7	3048.8	3037.0
2306.3	27.5°	2330.6	2383.7	2475.7	2618.6	2785.1	2886.8	2896.3	2864.7	2863.9
2094.9	30°	2112.6	2185.5	2255.5	2371.9	2533.2	2685.7	2701.9	2679.8	2682.0
1901.2	32.5°	1941.7	2002.1	2061.8	2139.8	2273.9	2451.4	2514.8	2494.2	2486.0
1739.9	35°	1767.1	1808.4	1869.5	1941.0	2032.3	2208.3	2318.1	2302.6	2294.5
1521.8	37.5°	1568.2	1639.0	1683.1	1763.4	1834.9	1974.8	2129.5	2127.3	2110.4
1336.2	40°	1364.2	1438.6	1505.6	1586.7	1641.9	1753.1	1924.8	1924.0	1926.2
1144.0	42.5°	1179.3	1247.8	1328.8	1417.2	1470.3	1551.3	1735.4	1745.8	1758.3
985.6	45°	1012.1	1074.0	1149.1	1256.7	1320.7	1367.1	1530.7	1577.8	1577.1
844.2	47.5°	861.8	920.0	983.4	1088.0	1169.7	1211.7	1347.3	1414.3	1409.9
692.4	50°	723.3	774.9	841.2	917.1	1026.8	1063.7	1164.6	1253.0	1246.3
551.7	52.5°	581.9	653.4	709.4	778.6	894.2	930.3	1008.4	1094.6	1089.4
414.0	55°	453.7	523.0	590.8	650.4	747.7	801.4	857.4	945.8	944.3
324.1	57.5°	343.3	419.1	483.2	539.9	617.3	683.6	728.5	808.8	819.1
221.7	60°	254.1	312.3	381.6	444.9	506.0	574.6	604.8	683.6	688.0
151.7	62.5°	173.1	237.2	305.0	362.4	408.1	478.8	506.0	570.9	579.0
97.2	65°	120.1	161.3	238.7	279.9	335.9	396.3	423.5	475.1	491.3
56.0	67.5°	79.6	114.9	186.4	223.9	279.2	320.4	355.0	397.0	414.7
35.4	70°	43.5	84.7	133.3	176.8	224.7	264.4	298.3	332.2	347.7
16.2	72.5°	29.5	56.7	92.8	140.0	181.2	220.2	250.4	275.5	276.2
9.6	75°	14.7	38.3	70.7	108.3	141.4	179.7	207.0	221.7	204.0
5.9	77.5°	8.8	28.0	57.5	86.9	114.9	145.1	160.6	168.7	140.0
4.4	80°	5.2	19.9	44.9	69.2	79.6	106.8	121.5	123.7	93.5
2.9	82.5°	3.7	14.7	35.4	50.8	48.6	75.1	91.3	88.4	59.7
2.2	85°	2.2	10.3	22.1	31.7	29.5	49.4	53.0	54.5	34.6
1.5	87.5°	1.5	5.9	11.8	16.9	14.0	21.4	21.4	25.8	16.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3980.6
3881.9
3898.1
3851.0
3786.2
3706.6
3613.1
3501.1
3351.6
3206.4
3024.5
2862.5
2670.9
2486.8
2283.5
2124.4
1926.2
1751.7
1578.5
1411.3
1252.2
1100.5
948.0
814.7
694.6
580.4
487.6
412.5
341.8
269.6
190.8
134.8
87.7
55.2
31.7
14.7
0.0

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