

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: P638071

Luminaire Tested: **IFLD-S-SA2A-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638071
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5938.8 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

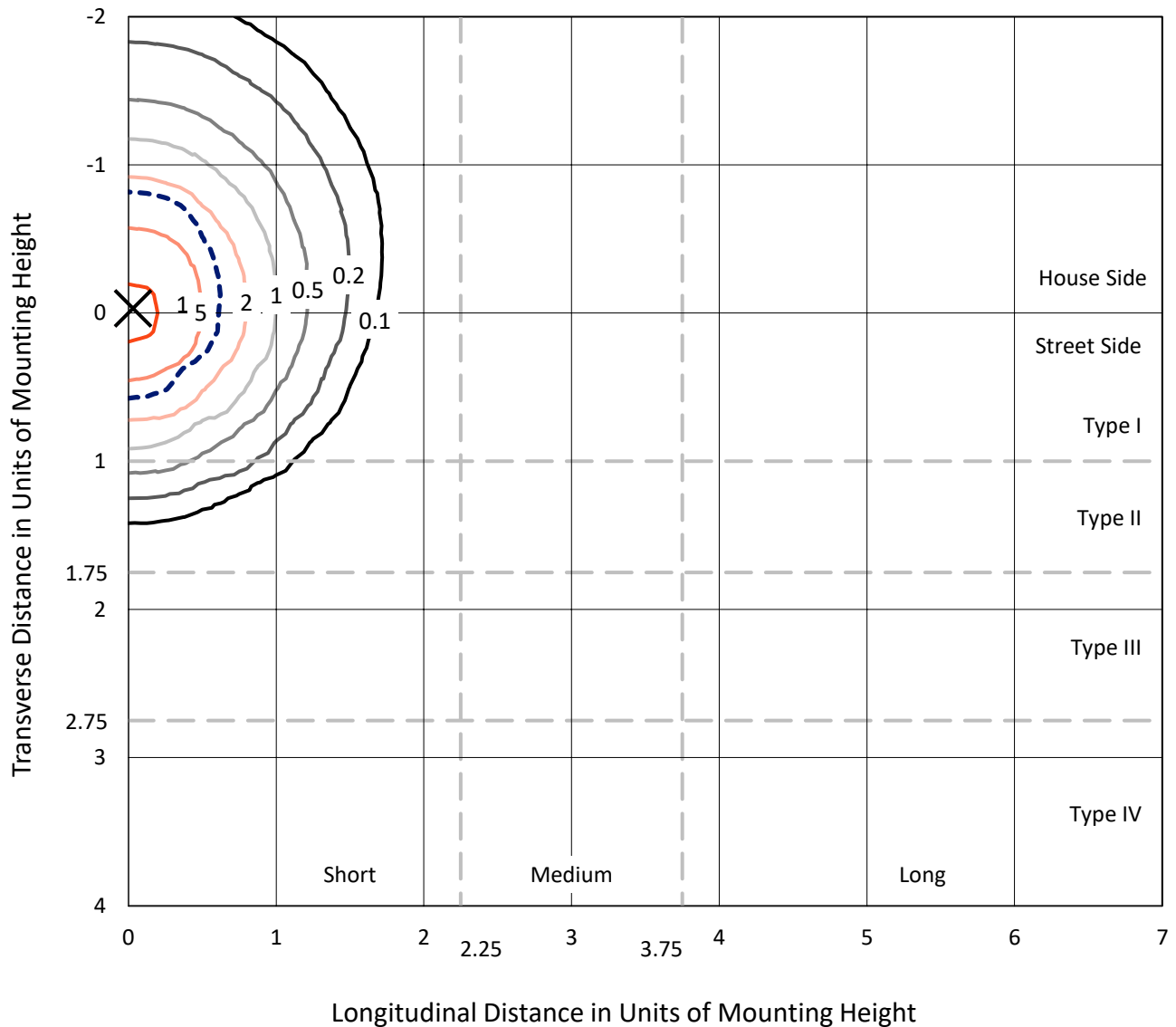
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

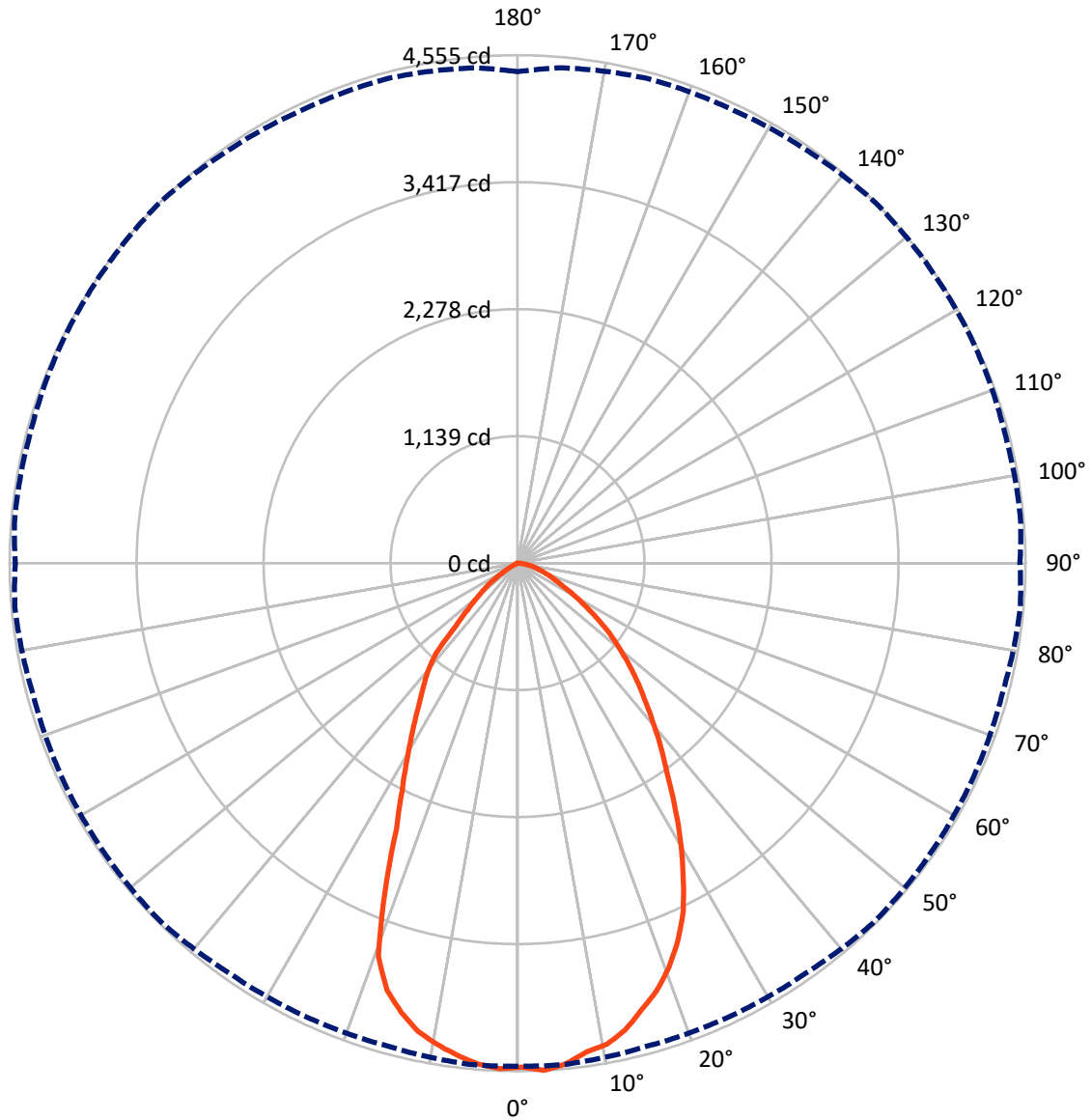
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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	3517.3	0.0	3517.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2421.5	0.0	2421.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	5938.8	0.0	5938.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.8	7.1
10°-20°	1136.6	19.1
20°-30°	1386.1	23.3
30°-40°	1265.5	21.3
40°-50°	914.6	15.4
50°-60°	499.4	8.4
60°-70°	206.5	3.5
70°-80°	83.6	1.4
80°-90°	22.7	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°	5938.8	100.0
0°-180°	5938.8	100.0



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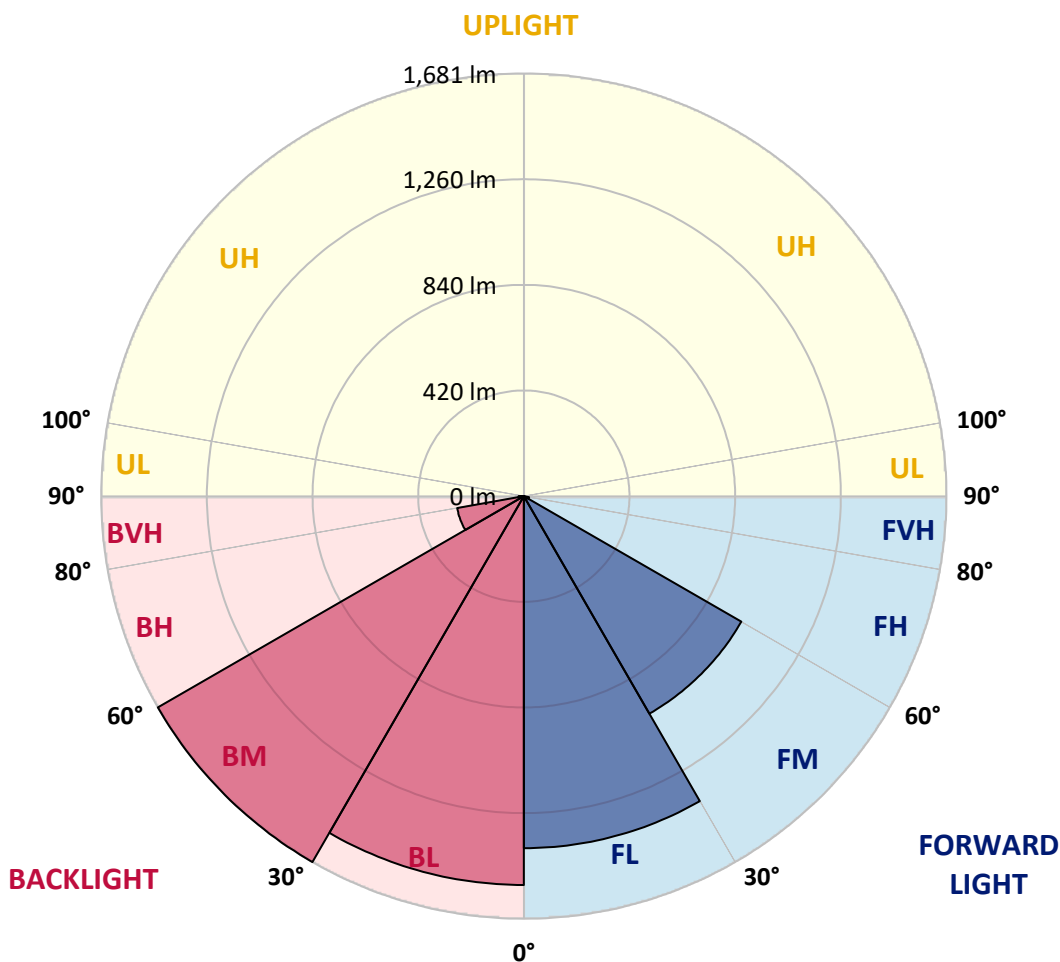
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.0	23.6			
FM (30°-60°)	998.8	16.8			
FH (60°-80°)	20.9	0.4			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1546.5	26.0	B3/2500		
BM (30°-60°)	1680.6	28.3	B2/2500		
BH (60°-80°)	269.2	4.5	B1/500		G1/500
BVH (80°-90°)	20.9	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°	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4
2.5°	4511.0	4516.9	4485.1	4488.5	4494.3	4537.0	4526.1	4516.1	4501.8	4526.1
5°	4505.2	4508.5	4475.1	4463.4	4468.4	4506.9	4471.7	4471.7	4468.4	4464.2
7.5°	4460.0	4461.7	4435.8	4414.9	4428.2	4445.8	4419.9	4432.4	4414.0	4428.2
10°	4392.3	4381.4	4350.5	4344.6	4359.7	4376.4	4358.8	4370.5	4353.8	4364.7
12.5°	4292.8	4276.0	4251.0	4243.4	4269.4	4291.9	4277.7	4271.0	4249.3	4276.0
15°	3908.9	3896.4	3953.2	4052.7	4142.2	4161.5	4146.4	4153.1	4107.9	4115.5
17.5°	3217.3	3193.9	3254.9	3490.7	3826.9	4004.2	3990.9	3947.4	3880.5	3895.5
20°	2923.7	2917.0	2910.4	2966.4	3201.4	3739.1	3757.5	3647.1	3551.8	3530.9
22.5°	2758.1	2755.6	2748.9	2761.5	2823.4	3168.8	3379.5	3277.5	3213.9	3208.1
25°	2606.8	2602.6	2582.5	2598.4	2598.4	2618.5	2888.6	2950.5	2894.5	2887.8
27.5°	2452.9	2445.4	2442.0	2449.5	2411.1	2275.6	2344.2	2646.1	2616.8	2618.5
30°	2286.5	2284.0	2274.8	2290.6	2171.9	2003.8	1960.3	2370.1	2376.0	2374.3
32.5°	2038.9	2049.8	2091.6	2109.2	1913.5	1774.6	1701.9	2050.6	2170.2	2167.7
35°	1481.1	1481.1	1617.4	1870.8	1676.8	1572.3	1533.0	1738.7	1967.0	1975.4
37.5°	1217.7	1221.8	1248.6	1364.0	1446.8	1410.0	1398.3	1463.5	1706.1	1719.4
40°	1095.6	1095.6	1095.6	1047.9	1045.4	1270.4	1263.7	1242.8	1473.6	1502.8
42.5°	984.3	986.8	988.5	868.1	801.2	1098.1	1083.0	1051.2	1265.3	1299.6
45°	869.8	873.9	879.0	725.9	696.6	790.3	916.6	881.5	1059.6	1103.9
47.5°	531.1	537.7	651.5	615.5	618.9	609.7	747.7	741.8	868.9	931.6
50°	358.8	361.3	372.2	390.6	531.1	479.2	529.4	613.8	659.8	755.2
52.5°	301.1	305.3	278.5	253.4	348.7	374.7	369.6	455.8	474.2	592.1
55°	211.6	225.0	212.4	209.9	198.2	291.0	280.2	350.4	362.1	449.9
57.5°	21.7	25.1	43.5	156.4	129.6	164.8	199.9	256.7	268.5	332.0
60°	1.7	1.7	4.2	21.7	94.5	98.7	138.0	158.1	180.6	231.7
62.5°	0.0	0.8	1.7	3.3	15.1	52.7	69.4	82.8	108.7	149.7
65°	0.0	0.0	0.8	2.5	3.3	20.1	26.8	43.5	59.4	92.8
67.5°	0.0	0.0	0.8	1.7	2.5	5.0	9.2	15.9	31.8	52.7
70°	0.0	0.0	0.8	1.7	2.5	4.2	6.7	10.0	14.2	28.4
72.5°	0.0	0.0	0.8	0.8	1.7	4.2	5.0	6.7	10.0	14.2
75°	0.0	0.0	0.8	0.8	2.5	5.0	4.2	5.0	6.7	9.2
77.5°	0.0	0.0	0.8	1.7	2.5	5.0	4.2	5.0	5.0	5.9
80°	0.0	0.0	0.8	1.7	3.3	5.9	5.0	5.0	4.2	4.2
82.5°	0.0	0.0	0.8	2.5	3.3	7.5	7.5	6.7	3.3	2.5
85°	0.0	0.0	1.7	3.3	5.0	8.4	8.4	6.7	2.5	1.7
87.5°	0.0	0.0	1.7	2.5	4.2	5.9	8.4	6.7	2.5	0.8
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°
4519.4	0°	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4	4519.4
4505.2	2.5°	4527.8	4522.8	4539.5	4546.2	4555.4	4520.2	4498.5	4499.3	4459.2
4454.2	5°	4480.9	4481.8	4503.5	4501.8	4511.0	4491.8	4483.4	4469.2	4434.1
4389.8	7.5°	4421.6	4414.0	4434.9	4450.8	4427.4	4440.8	4421.6	4428.2	4407.3
4332.9	10°	4375.6	4358.0	4377.2	4388.1	4388.9	4375.6	4357.2	4339.6	4332.1
4244.3	12.5°	4273.5	4251.0	4283.6	4298.6	4296.1	4270.2	4249.3	4253.5	4229.2
4088.7	15°	4133.0	4133.9	4157.3	4171.5	4158.1	4152.3	4153.9	4143.9	4123.0
3873.8	17.5°	3918.1	3930.6	3992.5	4026.8	4034.3	4022.6	4016.8	4005.1	3984.2
3530.9	20°	3560.2	3635.4	3745.8	3852.0	3872.9	3869.6	3848.7	3843.7	3832.0
3191.4	22.5°	3245.7	3301.7	3429.7	3595.3	3680.6	3689.0	3663.9	3656.3	3643.8
2887.8	25°	2920.4	2980.6	3096.0	3275.8	3452.3	3488.2	3484.1	3461.5	3448.1
2618.5	27.5°	2646.1	2706.3	2810.8	2973.1	3162.1	3277.5	3288.4	3252.4	3251.6
2378.5	30°	2398.5	2481.3	2560.8	2692.9	2876.1	3049.2	3067.6	3042.5	3045.0
2158.5	32.5°	2204.5	2273.1	2340.8	2429.5	2581.7	2783.2	2855.2	2831.7	2822.5
1975.4	35°	2006.3	2053.1	2122.5	2203.7	2307.4	2507.3	2631.9	2614.3	2605.1
1727.8	37.5°	1780.5	1860.8	1911.0	2002.1	2083.2	2242.1	2417.8	2415.3	2396.0
1517.1	40°	1548.8	1633.3	1709.4	1801.4	1864.1	1990.4	2185.3	2184.4	2186.9
1298.8	42.5°	1338.9	1416.7	1508.7	1609.1	1669.3	1761.3	1970.3	1982.0	1996.3
1119.0	45°	1149.1	1219.3	1304.6	1426.7	1499.5	1552.2	1737.8	1791.4	1790.5
958.4	47.5°	978.5	1044.5	1116.5	1235.2	1328.1	1375.7	1529.6	1605.7	1600.7
786.1	50°	821.3	879.8	955.1	1041.2	1165.8	1207.6	1322.2	1422.6	1415.0
626.4	52.5°	660.7	741.8	805.4	884.0	1015.3	1056.3	1144.9	1242.8	1236.9
470.0	55°	515.2	593.8	670.7	738.5	848.9	909.9	973.5	1073.8	1072.1
368.0	57.5°	389.7	475.9	548.6	613.0	700.8	776.1	827.1	918.3	930.0
251.7	60°	288.5	354.6	433.2	505.1	574.5	652.3	686.6	776.1	781.1
172.3	62.5°	196.5	269.3	346.2	411.5	463.3	543.6	574.5	648.1	657.3
110.4	65°	136.3	183.2	271.0	317.8	381.4	449.9	480.9	539.4	557.8
63.6	67.5°	90.3	130.5	211.6	254.2	317.0	363.8	403.1	450.8	470.8
40.1	70°	49.3	96.2	151.4	200.7	255.1	300.2	338.7	377.2	394.7
18.4	72.5°	33.5	64.4	105.4	158.9	205.7	250.1	284.3	312.8	313.6
10.9	75°	16.7	43.5	80.3	122.9	160.6	204.1	235.0	251.7	231.7
6.7	77.5°	10.0	31.8	65.2	98.7	130.5	164.8	182.3	191.5	158.9
5.0	80°	5.9	22.6	51.0	78.6	90.3	121.3	138.0	140.5	106.2
3.3	82.5°	4.2	16.7	40.1	57.7	55.2	85.3	103.7	100.4	67.7
2.5	85°	2.5	11.7	25.1	36.0	33.5	56.0	60.2	61.9	39.3
1.7	87.5°	1.7	6.7	13.4	19.2	15.9	24.3	24.3	29.3	19.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4519.4
4407.3
4425.7
4372.2
4298.6
4208.3
4102.1
3975.0
3805.2
3640.4
3433.9
3249.9
3032.5
2823.4
2592.6
2411.9
2186.9
1988.7
1792.2
1602.4
1421.7
1249.4
1076.3
925.0
788.6
659.0
553.6
468.3
388.0
306.1
216.6
153.0
99.5
62.7
36.0
16.7
0.0

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