

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: P638048

Luminaire Tested: **IFLD-S-SA3B-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9640.9 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

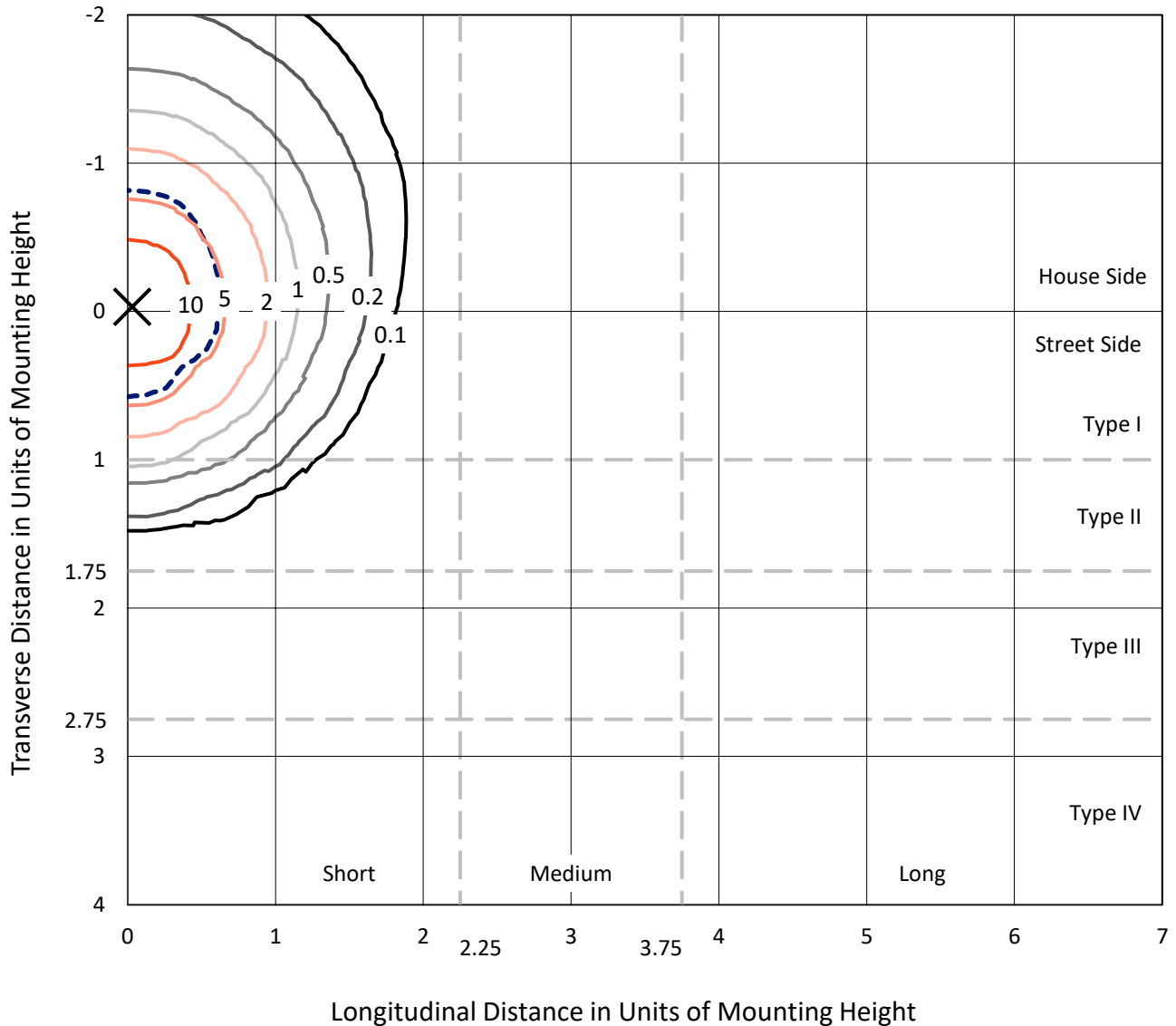
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

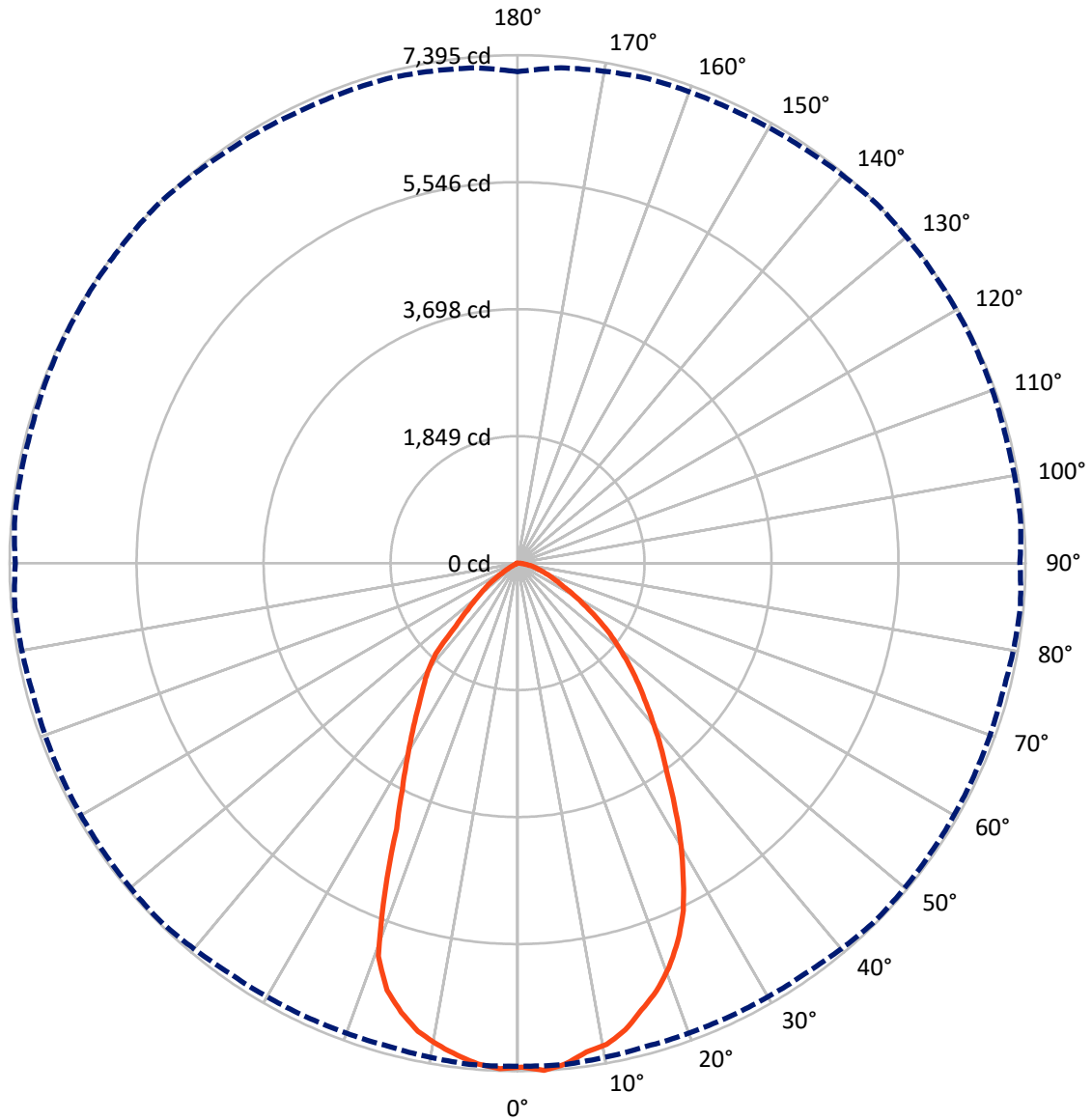
× Max cd
 - - - 1/2 Max cd



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 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5709.8	0.0	5709.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3931.1	0.0	3931.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	9640.9	0.0	9640.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.1	7.1
10°-20°	1845.1	19.1
20°-30°	2250.2	23.3
30°-40°	2054.4	21.3
40°-50°	1484.7	15.4
50°-60°	810.6	8.4
60°-70°	335.2	3.5
70°-80°	135.8	1.4
80°-90°	36.9	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°	9640.9	100.0
0°-180°	9640.9	100.0



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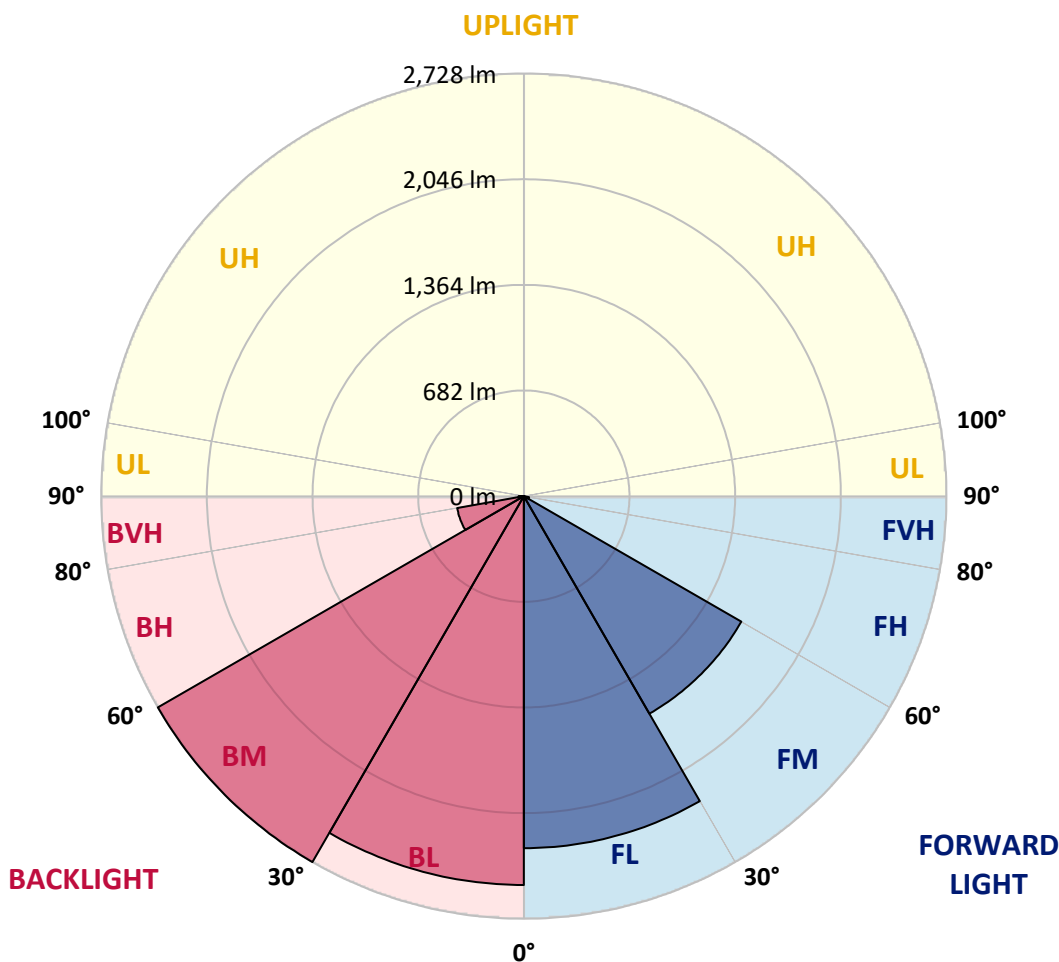
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2272.7	23.6			
FM (30°-60°)	1621.4	16.8			
FH (60°-80°)	34.0	0.4			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	2510.6	26.0	B4/5000		
BM (30°-60°)	2728.3	28.3	B3/5000		
BH (60°-80°)	436.9	4.5	B1/500		G1/500
BVH (80°-90°)	34.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7
2.5°	7323.1	7332.6	7281.0	7286.4	7295.9	7365.2	7347.5	7331.2	7308.2	7347.5
5°	7313.6	7319.0	7264.7	7245.7	7253.9	7316.3	7259.3	7259.3	7253.9	7247.1
7.5°	7240.3	7243.0	7200.9	7167.0	7188.7	7217.2	7175.1	7195.5	7165.6	7188.7
10°	7130.3	7112.7	7062.4	7052.9	7077.4	7104.5	7076.0	7095.0	7067.9	7085.5
12.5°	6968.8	6941.6	6900.9	6888.7	6930.7	6967.4	6944.3	6933.5	6898.2	6941.6
15°	6345.6	6325.2	6417.6	6579.1	6724.4	6755.6	6731.2	6742.0	6668.7	6680.9
17.5°	5222.8	5184.8	5283.9	5666.8	6212.5	6500.4	6478.6	6408.0	6299.4	6323.9
20°	4746.3	4735.4	4724.6	4815.5	5197.0	6070.0	6099.9	5920.7	5765.9	5731.9
22.5°	4477.5	4473.4	4462.6	4482.9	4583.4	5144.1	5486.2	5320.6	5217.4	5207.9
25°	4231.8	4225.0	4192.4	4218.2	4218.2	4250.8	4689.3	4789.7	4698.8	4687.9
27.5°	3981.9	3969.7	3964.3	3976.5	3914.1	3694.1	3805.5	4295.6	4248.0	4250.8
30°	3711.8	3707.7	3692.8	3718.6	3525.8	3252.9	3182.3	3847.5	3857.0	3854.3
32.5°	3309.9	3327.6	3395.5	3424.0	3106.3	2880.9	2762.8	3328.9	3523.1	3519.0
35°	2404.4	2404.4	2625.7	3037.0	2722.1	2552.4	2488.5	2822.5	3193.2	3206.7
37.5°	1976.7	1983.5	2027.0	2214.3	2348.7	2289.0	2270.0	2375.9	2769.6	2791.3
40°	1778.5	1778.5	1778.5	1701.1	1697.0	2062.3	2051.4	2017.4	2392.2	2439.7
42.5°	1597.9	1602.0	1604.7	1409.2	1300.6	1782.6	1758.1	1706.5	2054.1	2109.8
45°	1411.9	1418.7	1426.9	1178.4	1130.9	1283.0	1488.0	1430.9	1720.1	1792.1
47.5°	862.1	873.0	1057.6	999.2	1004.7	989.7	1213.7	1204.2	1410.6	1512.4
50°	582.4	586.5	604.1	634.0	862.1	777.9	859.4	996.5	1071.2	1225.9
52.5°	488.7	495.5	452.1	411.4	566.1	608.2	600.1	739.9	769.8	961.2
55°	343.5	365.2	344.8	340.8	321.8	472.5	454.8	568.8	587.9	730.4
57.5°	35.3	40.7	70.6	253.9	210.4	267.5	324.5	416.8	435.8	539.0
60°	2.7	2.7	6.8	35.3	153.4	160.2	224.0	256.6	293.2	376.1
62.5°	0.0	1.4	2.7	5.4	24.4	85.5	112.7	134.4	176.5	243.0
65°	0.0	0.0	1.4	4.1	5.4	32.6	43.4	70.6	96.4	150.7
67.5°	0.0	0.0	1.4	2.7	4.1	8.1	14.9	25.8	51.6	85.5
70°	0.0	0.0	1.4	2.7	4.1	6.8	10.9	16.3	23.1	46.2
72.5°	0.0	0.0	1.4	1.4	2.7	6.8	8.1	10.9	16.3	23.1
75°	0.0	0.0	1.4	1.4	4.1	8.1	6.8	8.1	10.9	14.9
77.5°	0.0	0.0	1.4	2.7	4.1	8.1	6.8	8.1	8.1	9.5
80°	0.0	0.0	1.4	2.7	5.4	9.5	8.1	8.1	6.8	6.8
82.5°	0.0	0.0	1.4	4.1	5.4	12.2	12.2	10.9	5.4	4.1
85°	0.0	0.0	2.7	5.4	8.1	13.6	13.6	10.9	4.1	2.7
87.5°	0.0	0.0	2.7	4.1	6.8	9.5	13.6	10.9	4.1	1.4
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°
7336.7	0°	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7	7336.7
7313.6	2.5°	7350.2	7342.1	7369.3	7380.1	7395.0	7338.0	7302.7	7304.1	7238.9
7230.8	5°	7274.2	7275.6	7310.9	7308.2	7323.1	7291.9	7278.3	7255.2	7198.2
7126.2	7.5°	7177.8	7165.6	7199.5	7225.3	7187.3	7209.1	7177.8	7188.7	7154.7
7033.9	10°	7103.2	7074.6	7105.9	7123.5	7124.9	7103.2	7073.3	7044.8	7032.6
6890.0	12.5°	6937.5	6900.9	6953.8	6978.3	6974.2	6932.1	6898.2	6904.9	6865.6
6637.5	15°	6709.4	6710.8	6748.8	6771.9	6750.2	6740.7	6743.4	6727.1	6693.2
6288.6	17.5°	6360.5	6380.9	6481.4	6537.0	6549.2	6530.2	6520.7	6501.7	6467.8
5731.9	20°	5779.5	5901.6	6080.9	6253.3	6287.2	6281.8	6247.8	6239.7	6220.7
5180.7	22.5°	5269.0	5360.0	5567.7	5836.5	5975.0	5988.5	5947.8	5935.6	5915.2
4687.9	25°	4740.9	4838.6	5026.0	5317.9	5604.3	5662.7	5655.9	5619.3	5597.5
4250.8	27.5°	4295.6	4393.3	4563.0	4826.4	5133.2	5320.6	5338.2	5279.9	5278.5
3861.1	30°	3893.7	4028.1	4157.1	4371.6	4668.9	4949.9	4979.8	4939.1	4943.2
3504.1	32.5°	3578.7	3690.1	3800.0	3943.9	4191.0	4518.2	4635.0	4597.0	4582.0
3206.7	35°	3257.0	3333.0	3445.7	3577.4	3745.7	4070.2	4272.5	4244.0	4229.0
2804.9	37.5°	2890.4	3020.7	3102.2	3250.2	3381.9	3639.8	3924.9	3920.9	3889.6
2462.8	40°	2514.3	2651.5	2775.0	2924.4	3026.2	3231.2	3547.5	3546.1	3550.2
2108.4	42.5°	2173.6	2299.8	2449.2	2612.1	2709.8	2859.2	3198.6	3217.6	3240.7
1816.5	45°	1865.4	1979.4	2117.9	2316.1	2434.2	2519.8	2821.2	2908.1	2906.7
1555.9	47.5°	1588.4	1695.7	1812.4	2005.2	2155.9	2233.3	2483.1	2606.7	2598.5
1276.2	50°	1333.2	1428.2	1550.4	1690.3	1892.5	1960.4	2146.4	2309.3	2297.1
1016.9	52.5°	1072.5	1204.2	1307.4	1435.0	1648.2	1714.7	1858.6	2017.4	2007.9
763.0	55°	836.3	963.9	1088.8	1198.8	1378.0	1477.1	1580.3	1743.2	1740.5
597.4	57.5°	632.7	772.5	890.6	995.1	1137.7	1259.9	1342.7	1490.7	1509.7
408.6	60°	468.4	575.6	703.3	820.0	932.7	1059.0	1114.6	1259.9	1268.0
279.7	62.5°	319.0	437.2	562.1	668.0	752.1	882.5	932.7	1052.2	1067.1
179.2	65°	221.3	297.3	439.9	515.9	619.1	730.4	780.6	875.7	905.5
103.2	67.5°	146.6	211.8	343.5	412.7	514.5	590.6	654.4	731.8	764.3
65.2	70°	80.1	156.1	245.7	325.8	414.1	487.4	549.8	612.3	640.8
29.9	72.5°	54.3	104.5	171.1	258.0	334.0	405.9	461.6	507.8	509.1
17.6	75°	27.2	70.6	130.3	199.6	260.7	331.3	381.5	408.6	376.1
10.9	77.5°	16.3	51.6	105.9	160.2	211.8	267.5	296.0	310.9	258.0
8.1	80°	9.5	36.7	82.8	127.6	146.6	196.9	224.0	228.1	172.4
5.4	82.5°	6.8	27.2	65.2	93.7	89.6	138.5	168.3	162.9	110.0
4.1	85°	4.1	19.0	40.7	58.4	54.3	91.0	97.7	100.5	63.8
2.7	87.5°	2.7	10.9	21.7	31.2	25.8	39.4	39.4	47.5	31.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<hr/> 7336.7
7154.7
7184.6
7097.7
6978.3
6831.6
6659.2
6452.8
6177.2
5909.8
5574.5
5275.8
4922.8
4583.4
4208.7
3915.4
3550.2
3228.5
2909.4
2601.2
2308.0
2028.3
1747.3
1501.5
1280.3
1069.8
898.8
760.3
629.9
496.9
351.6
248.4
161.6
101.8
58.4
27.2
0.0

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