

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: P636830

Luminaire Tested: **IFLD-S-SA3B-950-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636830
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-950-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9457.6 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

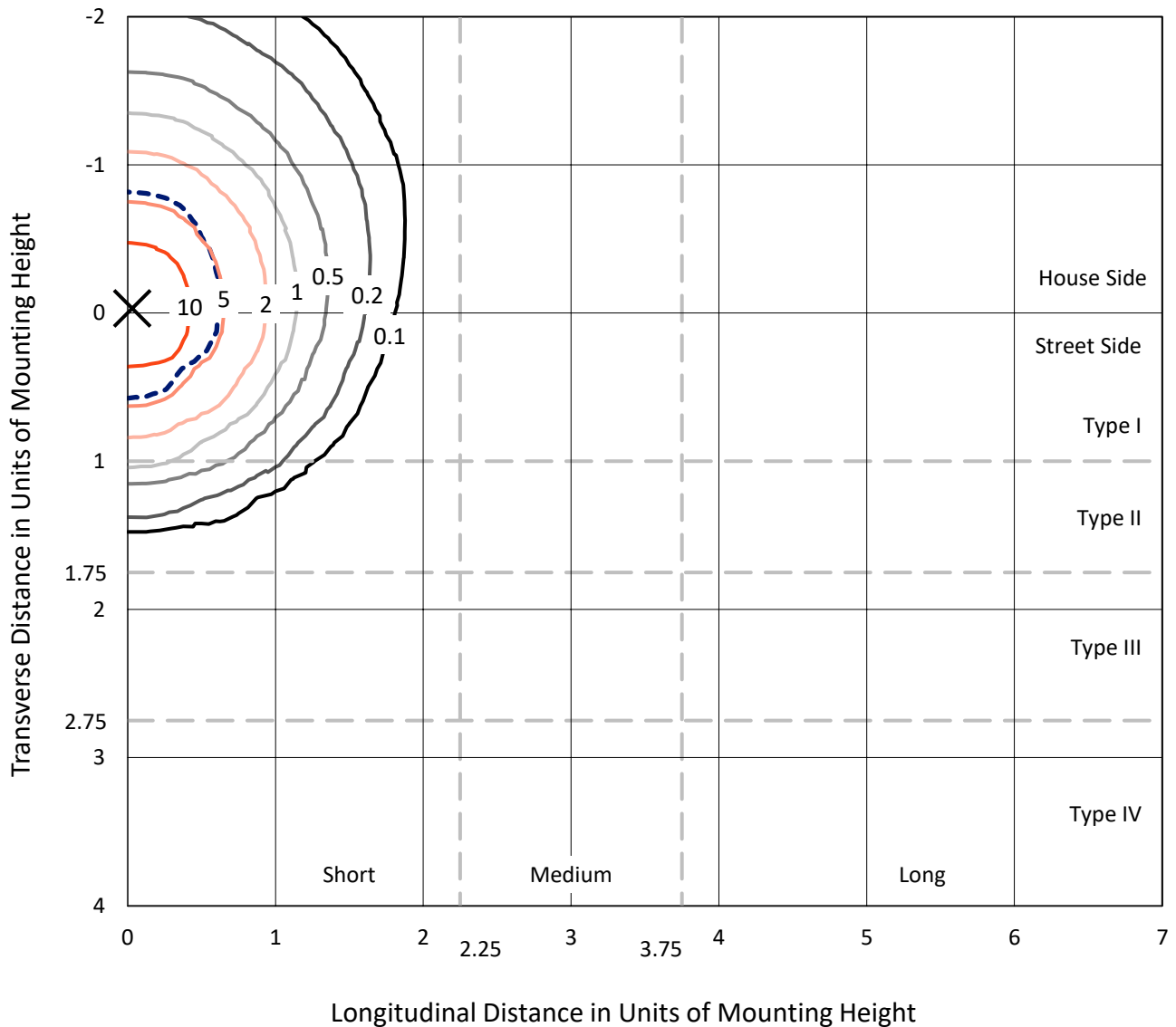
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

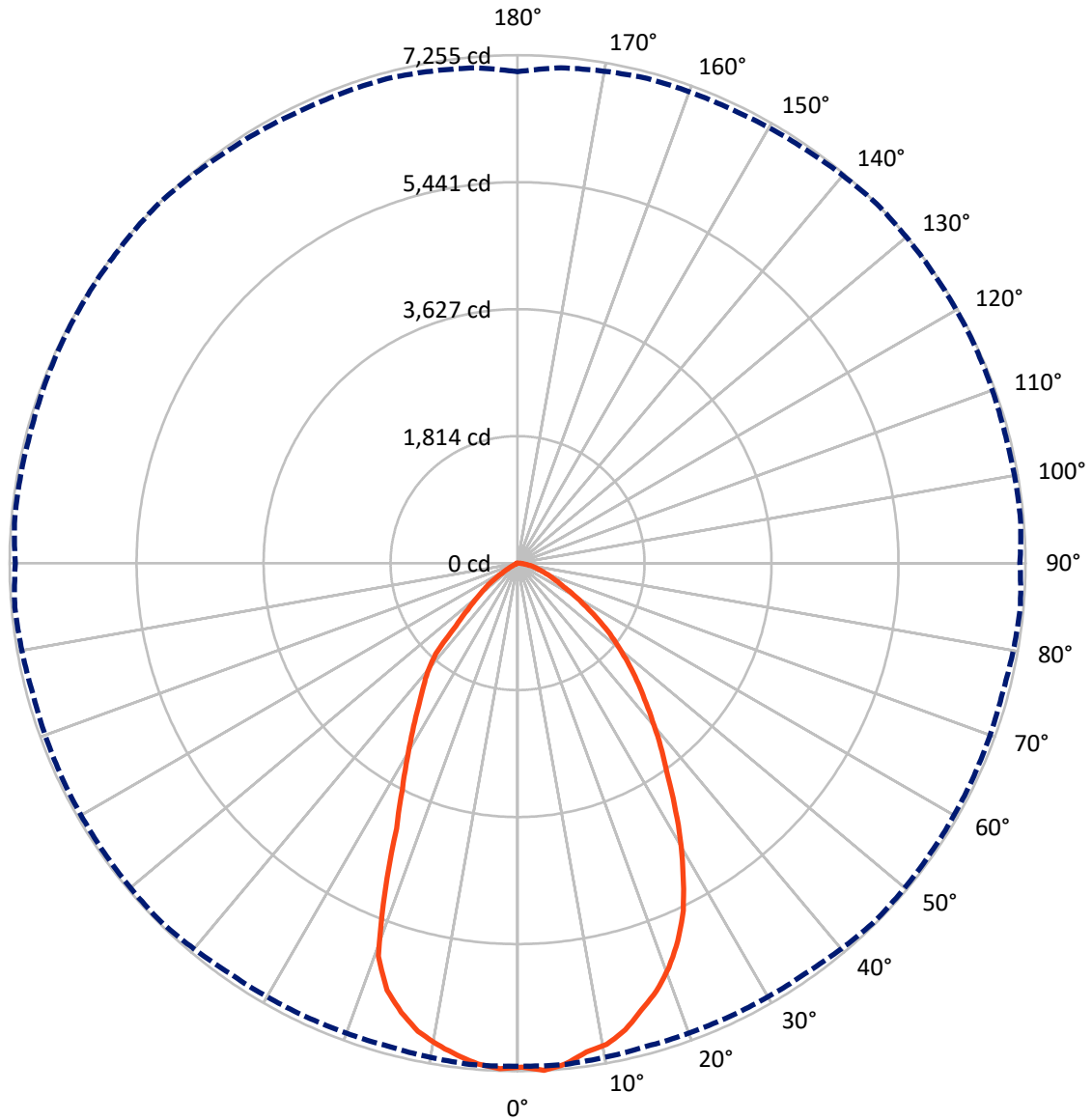
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18 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	5601.3	0.0	5601.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3856.4	0.0	3856.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	9457.6	0.0	9457.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.0	7.1
10°-20°	1810.0	19.1
20°-30°	2207.4	23.3
30°-40°	2015.3	21.3
40°-50°	1456.4	15.4
50°-60°	795.2	8.4
60°-70°	328.8	3.5
70°-80°	133.2	1.4
80°-90°	36.2	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°	9457.6	100.0
0°-180°	9457.6	100.0



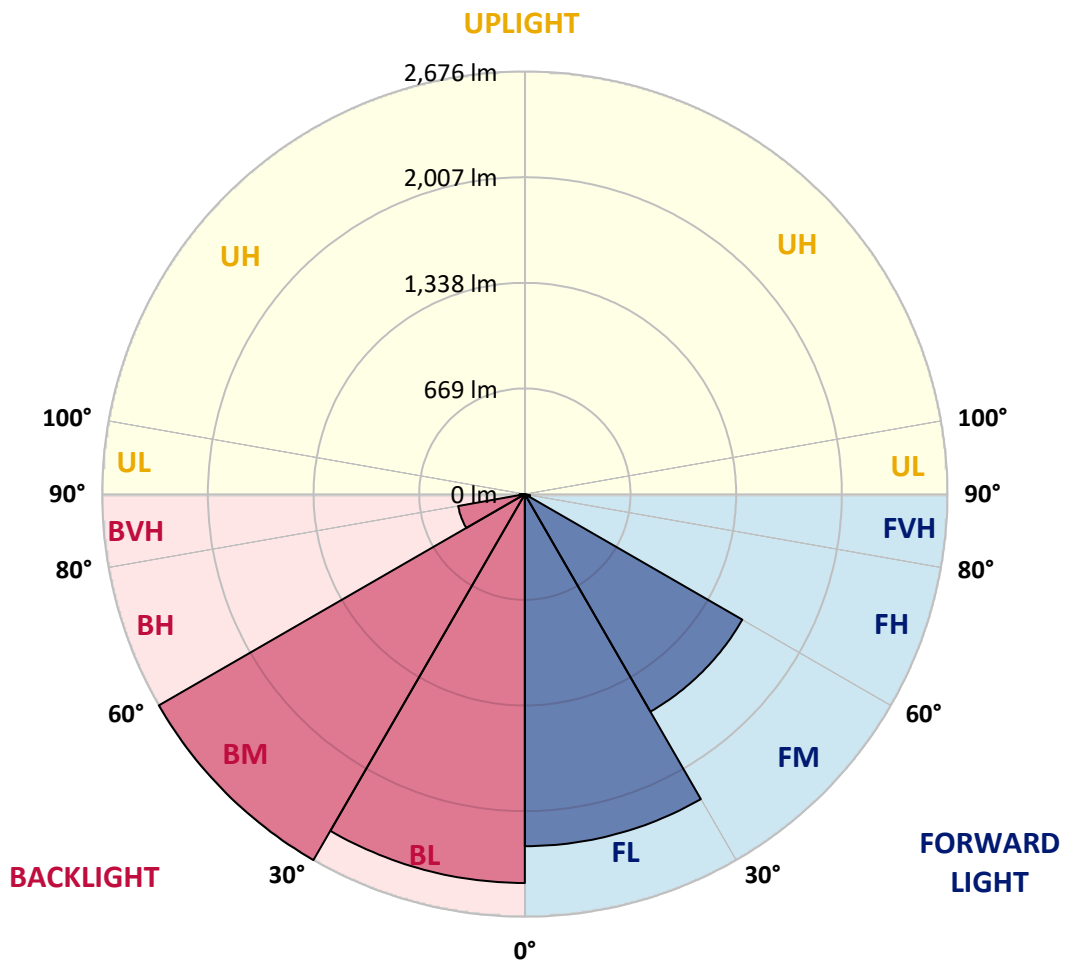
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.5	23.6			
FM (30°-60°)	1590.6	16.8			
FH (60°-80°)	33.3	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	2462.9	26.0	B3/2500		
BM (30°-60°)	2676.4	28.3	B3/5000		
BH (60°-80°)	428.6	4.5	B1/500		G1/500
BVH (80°-90°)	33.3	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°	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2
2.5°	7183.9	7193.2	7142.6	7148.0	7157.3	7225.2	7207.9	7191.9	7169.3	7207.9
5°	7174.6	7179.9	7126.6	7108.0	7116.0	7177.3	7121.3	7121.3	7116.0	7109.3
7.5°	7102.7	7105.3	7064.0	7030.7	7052.1	7080.0	7038.7	7058.7	7029.4	7052.1
10°	6994.8	6977.5	6928.2	6918.9	6942.8	6969.5	6941.5	6960.2	6933.5	6950.8
12.5°	6836.3	6809.7	6769.7	6757.7	6799.0	6835.0	6812.3	6801.7	6767.0	6809.7
15°	6225.0	6205.0	6295.6	6454.1	6596.6	6627.2	6603.2	6613.9	6542.0	6554.0
17.5°	5123.6	5086.3	5183.5	5559.1	6094.5	6376.8	6355.5	6286.3	6179.7	6203.7
20°	4656.1	4645.4	4634.8	4724.0	5098.3	5954.6	5983.9	5808.1	5656.3	5623.0
22.5°	4392.4	4388.4	4377.7	4397.7	4496.3	5046.3	5381.9	5219.5	5118.2	5108.9
25°	4151.3	4144.7	4112.7	4138.0	4138.0	4170.0	4600.2	4698.7	4609.5	4598.8
27.5°	3906.3	3894.3	3889.0	3900.9	3839.7	3623.9	3733.1	4213.9	4167.3	4170.0
30°	3641.2	3637.2	3622.6	3647.9	3458.8	3191.1	3121.8	3774.4	3783.7	3781.1
32.5°	3247.0	3264.3	3330.9	3358.9	3047.2	2826.2	2710.3	3265.7	3456.1	3452.1
35°	2358.7	2358.7	2575.8	2979.3	2670.3	2503.8	2441.3	2768.9	3132.5	3145.8
37.5°	1939.1	1945.8	1988.4	2172.2	2304.1	2245.5	2226.8	2330.7	2716.9	2738.2
40°	1744.7	1744.7	1744.7	1668.8	1664.8	2023.1	2012.4	1979.1	2346.7	2393.3
42.5°	1567.6	1571.6	1574.2	1382.4	1275.9	1748.7	1724.7	1674.1	2015.1	2069.7
45°	1385.1	1391.8	1399.8	1156.0	1109.4	1258.6	1459.7	1403.8	1687.4	1758.0
47.5°	845.7	856.4	1037.5	980.2	985.6	970.9	1190.7	1181.3	1383.8	1483.7
50°	571.4	575.4	592.7	622.0	845.7	763.1	843.1	977.6	1050.8	1202.6
52.5°	479.5	486.1	443.5	403.5	555.4	596.7	588.7	725.8	755.1	942.9
55°	337.0	358.3	338.3	334.3	315.6	463.5	446.2	558.0	576.7	716.5
57.5°	34.6	40.0	69.3	249.1	206.4	262.4	318.3	408.9	427.5	528.7
60°	2.7	2.7	6.7	34.6	150.5	157.2	219.8	251.7	287.7	368.9
62.5°	0.0	1.3	2.7	5.3	24.0	83.9	110.5	131.9	173.1	238.4
65°	0.0	0.0	1.3	4.0	5.3	32.0	42.6	69.3	94.6	147.8
67.5°	0.0	0.0	1.3	2.7	4.0	8.0	14.7	25.3	50.6	83.9
70°	0.0	0.0	1.3	2.7	4.0	6.7	10.7	16.0	22.6	45.3
72.5°	0.0	0.0	1.3	1.3	2.7	6.7	8.0	10.7	16.0	22.6
75°	0.0	0.0	1.3	1.3	4.0	8.0	6.7	8.0	10.7	14.7
77.5°	0.0	0.0	1.3	2.7	4.0	8.0	6.7	8.0	8.0	9.3
80°	0.0	0.0	1.3	2.7	5.3	9.3	8.0	8.0	6.7	6.7
82.5°	0.0	0.0	1.3	4.0	5.3	12.0	12.0	10.7	5.3	4.0
85°	0.0	0.0	2.7	5.3	8.0	13.3	13.3	10.7	4.0	2.7
87.5°	0.0	0.0	2.7	4.0	6.7	9.3	13.3	10.7	4.0	1.3
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°
7197.2	0°	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2	7197.2
7174.6	2.5°	7210.5	7202.6	7229.2	7239.8	7254.5	7198.6	7163.9	7165.3	7101.3
7093.3	5°	7136.0	7137.3	7171.9	7169.3	7183.9	7153.3	7140.0	7117.3	7061.4
6990.8	7.5°	7041.4	7029.4	7062.7	7088.0	7050.7	7072.0	7041.4	7052.1	7018.8
6900.2	10°	6968.2	6940.2	6970.8	6988.1	6989.5	6968.2	6938.9	6910.9	6898.9
6759.1	12.5°	6805.7	6769.7	6821.7	6845.6	6841.6	6800.3	6767.0	6773.7	6735.1
6511.3	15°	6581.9	6583.3	6620.5	6643.2	6621.9	6612.6	6615.2	6599.2	6565.9
6169.1	17.5°	6239.6	6259.6	6358.2	6412.8	6424.8	6406.1	6396.8	6378.2	6344.9
5623.0	20°	5669.6	5789.5	5965.3	6134.4	6167.7	6162.4	6129.1	6121.1	6102.5
5082.3	22.5°	5168.8	5258.1	5461.8	5725.6	5861.4	5874.7	5834.8	5822.8	5802.8
4598.8	25°	4650.8	4746.7	4930.4	5216.8	5497.8	5555.1	5548.4	5512.5	5491.1
4170.0	27.5°	4213.9	4309.8	4476.3	4734.7	5035.7	5219.5	5236.8	5179.5	5178.2
3787.7	30°	3819.7	3951.5	4078.1	4288.5	4580.2	4855.9	4885.2	4845.2	4849.2
3437.5	32.5°	3510.7	3619.9	3727.8	3869.0	4111.4	4432.3	4546.9	4509.6	4494.9
3145.8	35°	3195.1	3269.7	3380.2	3509.4	3674.5	3992.8	4191.3	4163.3	4148.7
2751.6	37.5°	2835.5	2963.3	3043.2	3188.4	3317.6	3570.6	3850.3	3846.3	3815.7
2415.9	40°	2466.6	2601.1	2722.3	2868.8	2968.7	3169.8	3480.1	3478.7	3482.7
2068.3	42.5°	2132.3	2256.1	2402.6	2562.4	2658.3	2804.8	3137.8	3156.4	3179.1
1782.0	45°	1829.9	1941.8	2077.7	2272.1	2388.0	2471.9	2767.5	2852.8	2851.5
1526.3	47.5°	1558.2	1663.5	1778.0	1967.1	2115.0	2190.9	2435.9	2557.1	2549.1
1251.9	50°	1307.9	1401.1	1521.0	1658.1	1856.6	1923.2	2105.6	2265.4	2253.5
997.5	52.5°	1052.1	1181.3	1282.6	1407.7	1616.8	1682.1	1823.3	1979.1	1969.8
748.5	55°	820.4	945.6	1068.1	1176.0	1351.8	1449.0	1550.3	1710.1	1707.4
586.0	57.5°	620.6	757.8	873.7	976.2	1116.1	1235.9	1317.2	1462.4	1481.0
400.9	60°	459.5	564.7	689.9	804.4	915.0	1038.8	1093.4	1235.9	1243.9
274.4	62.5°	313.0	428.9	551.4	655.3	737.8	865.7	915.0	1032.2	1046.8
175.8	65°	217.1	291.7	431.5	506.1	607.3	716.5	765.8	859.0	888.3
101.2	67.5°	143.8	207.8	337.0	404.9	504.8	579.3	641.9	717.9	749.8
63.9	70°	78.6	153.2	241.1	319.6	406.2	478.1	539.4	600.7	628.6
29.3	72.5°	53.3	102.6	167.8	253.0	327.6	398.2	452.8	498.1	499.4
17.3	75°	26.6	69.3	127.9	195.8	255.7	325.0	374.2	400.9	368.9
10.7	77.5°	16.0	50.6	103.9	157.2	207.8	262.4	290.3	305.0	253.0
8.0	80°	9.3	36.0	81.2	125.2	143.8	193.1	219.8	223.7	169.1
5.3	82.5°	6.7	26.6	63.9	91.9	87.9	135.8	165.1	159.8	107.9
4.0	85°	4.0	18.6	40.0	57.3	53.3	89.2	95.9	98.6	62.6
2.7	87.5°	2.7	10.7	21.3	30.6	25.3	38.6	38.6	46.6	30.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7197.2
7018.8
7048.1
6962.8
6845.6
6701.8
6532.6
6330.2
6059.8
5797.5
5468.5
5175.5
4829.2
4496.3
4128.7
3841.0
3482.7
3167.1
2854.1
2551.8
2264.1
1989.8
1714.1
1473.0
1255.9
1049.5
881.7
745.8
618.0
487.5
344.9
243.7
158.5
99.9
57.3
26.6
0.0

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