

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: P638046

Luminaire Tested: **IFLD-S-SA2E-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638046
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-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: 10254.8 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

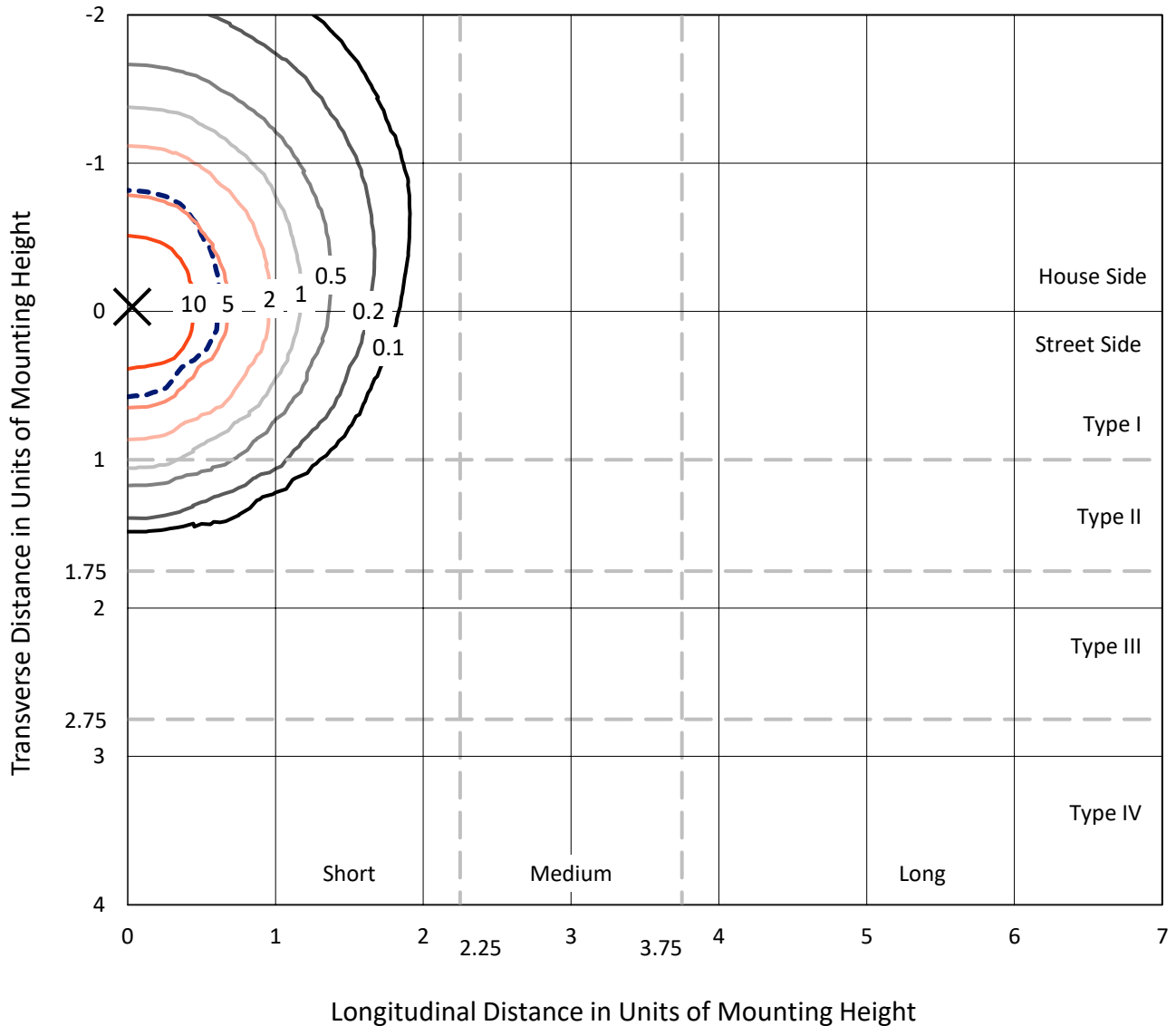
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

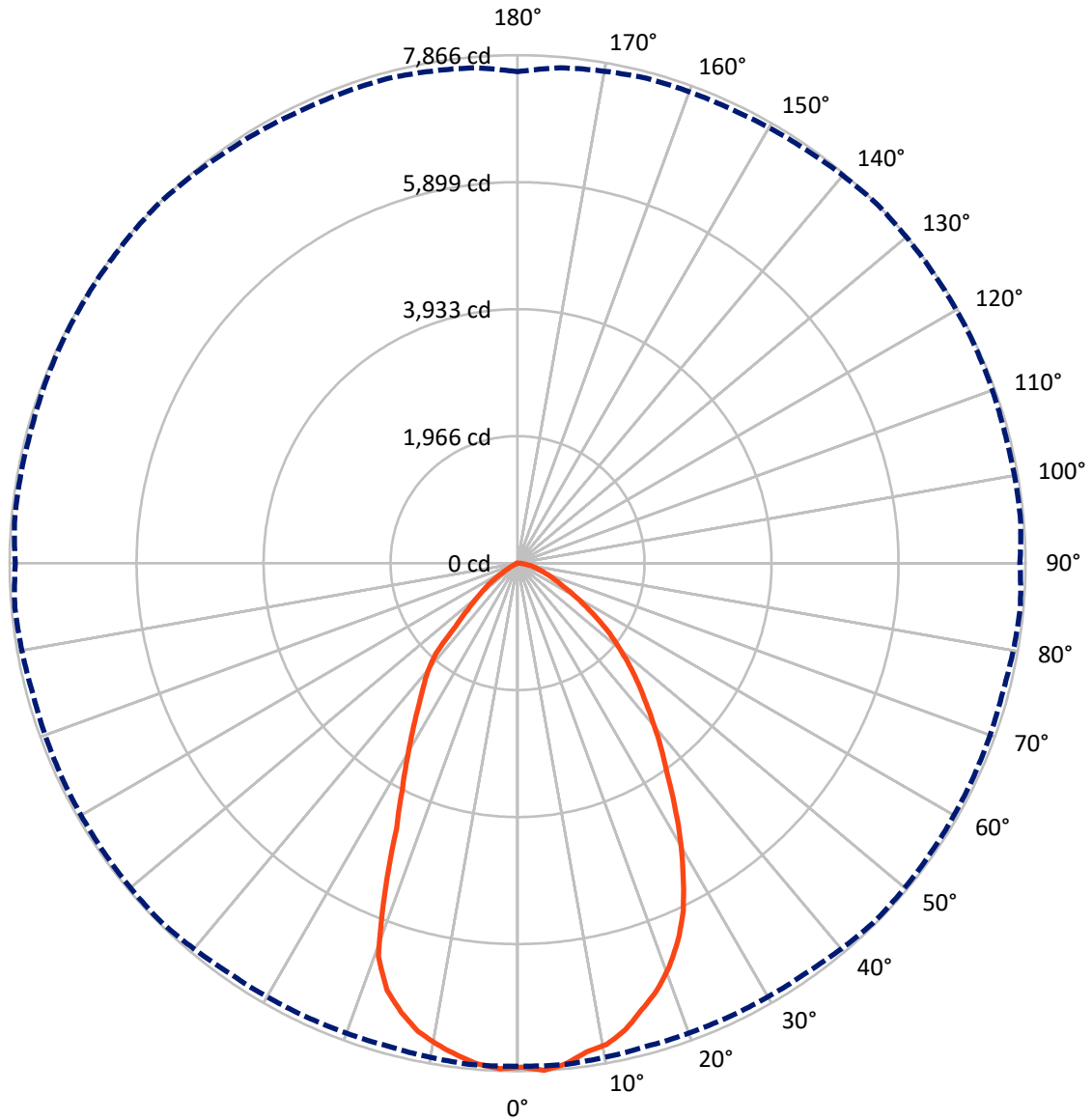
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.5 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	6073.4	0.0	6073.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4181.4	0.0	4181.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	10254.8	0.0	10254.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.9	7.1
10°-20°	1962.6	19.1
20°-30°	2393.5	23.3
30°-40°	2185.2	21.3
40°-50°	1579.2	15.4
50°-60°	862.3	8.4
60°-70°	356.5	3.5
70°-80°	144.4	1.4
80°-90°	39.3	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°	10254.8	100.0
0°-180°	10254.8	100.0



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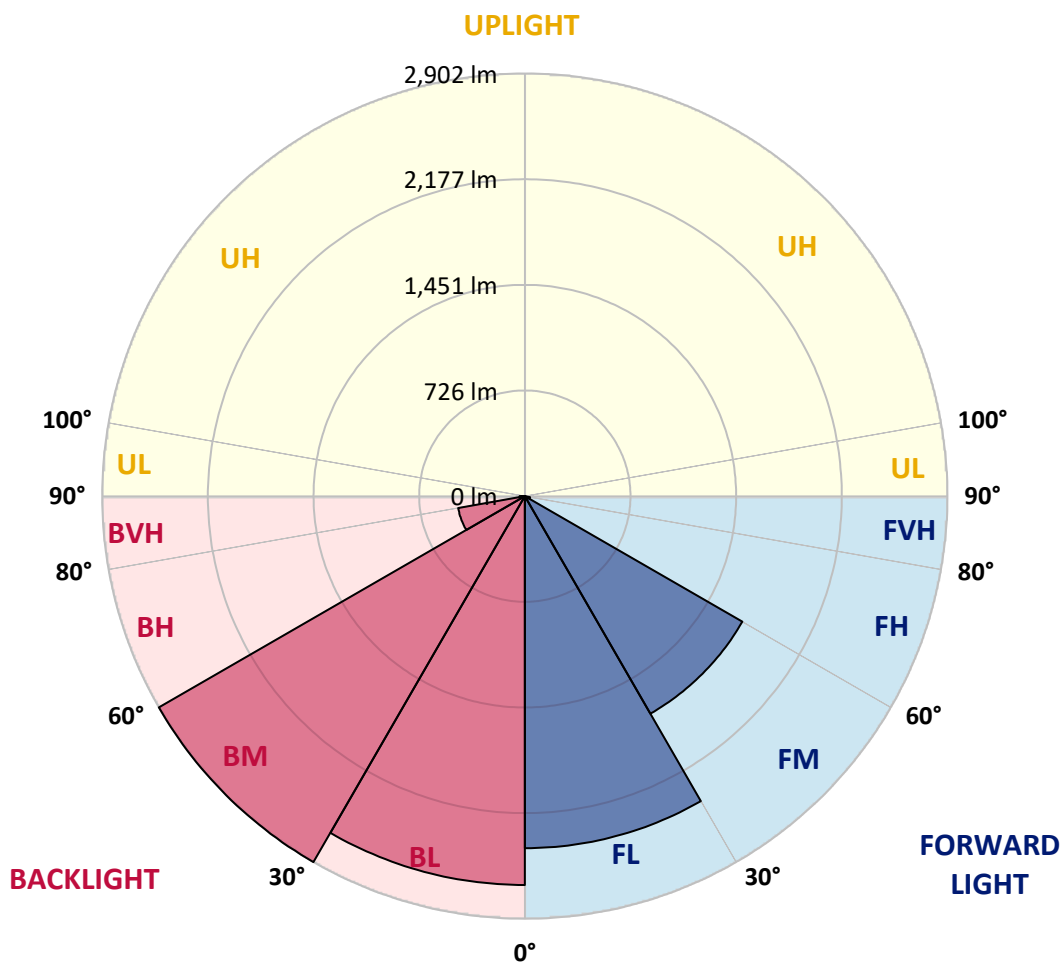
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2417.4	23.6			
FM (30°-60°)	1724.7	16.8			
FH (60°-80°)	36.1	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2670.5	26.0	B4/5000		
BM (30°-60°)	2902.0	28.3	B3/5000		
BH (60°-80°)	464.8	4.5	B1/500		G1/500
BVH (80°-90°)	36.1	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°	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8
2.5°	7789.4	7799.5	7744.6	7750.4	7760.5	7834.2	7815.4	7798.1	7773.5	7815.4
5°	7779.3	7785.1	7727.3	7707.1	7715.8	7782.2	7721.5	7721.5	7715.8	7708.5
7.5°	7701.3	7704.2	7659.4	7623.3	7646.4	7676.8	7632.0	7653.7	7621.9	7646.4
10°	7584.3	7565.6	7512.1	7502.0	7528.0	7556.9	7526.6	7546.8	7517.9	7536.7
12.5°	7412.5	7383.6	7340.3	7327.3	7372.1	7411.0	7386.5	7374.9	7337.4	7383.6
15°	6749.7	6728.0	6826.2	6998.0	7152.6	7185.8	7159.8	7171.3	7093.4	7106.3
17.5°	5555.4	5515.0	5620.4	6027.6	6608.1	6914.3	6891.2	6816.1	6700.6	6726.6
20°	5048.5	5037.0	5025.4	5122.2	5528.0	6456.5	6488.3	6297.7	6133.0	6096.9
22.5°	4762.6	4758.3	4746.7	4768.4	4875.2	5471.6	5835.6	5659.4	5549.6	5539.5
25°	4501.2	4494.0	4459.3	4486.8	4486.8	4521.4	4987.9	5094.7	4998.0	4986.4
27.5°	4235.5	4222.5	4216.7	4229.7	4163.3	3929.4	4047.8	4569.1	4518.5	4521.4
30°	3948.1	3943.8	3927.9	3955.4	3750.3	3460.0	3384.9	4092.5	4102.6	4099.8
32.5°	3520.7	3539.5	3611.7	3642.0	3304.1	3064.4	2938.7	3540.9	3747.4	3743.1
35°	2557.5	2557.5	2792.9	3230.4	2895.4	2714.9	2647.0	3002.3	3396.5	3410.9
37.5°	2102.6	2109.8	2156.0	2355.3	2498.3	2434.7	2414.5	2527.2	2945.9	2969.0
40°	1891.8	1891.8	1891.8	1809.4	1805.1	2193.6	2182.0	2145.9	2544.5	2595.0
42.5°	1699.7	1704.0	1706.9	1499.0	1383.4	1896.1	1870.1	1815.2	2184.9	2244.1
45°	1501.8	1509.1	1517.7	1253.5	1202.9	1364.7	1582.7	1522.1	1829.7	1906.2
47.5°	917.0	928.5	1124.9	1062.8	1068.6	1052.7	1291.0	1280.9	1500.4	1608.7
50°	619.5	623.8	642.6	674.4	917.0	827.5	914.1	1060.0	1139.4	1304.0
52.5°	519.9	527.1	480.9	437.6	602.2	647.0	638.3	787.0	818.8	1022.4
55°	365.4	388.5	366.8	362.5	342.2	502.5	483.8	605.1	625.3	776.9
57.5°	37.5	43.3	75.1	270.0	223.8	284.5	345.1	443.3	463.6	573.3
60°	2.9	2.9	7.2	37.5	163.2	170.4	238.3	272.9	311.9	400.0
62.5°	0.0	1.4	2.9	5.8	26.0	91.0	119.9	143.0	187.7	258.5
65°	0.0	0.0	1.4	4.3	5.8	34.7	46.2	75.1	102.5	160.3
67.5°	0.0	0.0	1.4	2.9	4.3	8.7	15.9	27.4	54.9	91.0
70°	0.0	0.0	1.4	2.9	4.3	7.2	11.6	17.3	24.5	49.1
72.5°	0.0	0.0	1.4	1.4	2.9	7.2	8.7	11.6	17.3	24.5
75°	0.0	0.0	1.4	1.4	4.3	8.7	7.2	8.7	11.6	15.9
77.5°	0.0	0.0	1.4	2.9	4.3	8.7	7.2	8.7	8.7	10.1
80°	0.0	0.0	1.4	2.9	5.8	10.1	8.7	8.7	7.2	7.2
82.5°	0.0	0.0	1.4	4.3	5.8	13.0	13.0	11.6	5.8	4.3
85°	0.0	0.0	2.9	5.8	8.7	14.4	14.4	11.6	4.3	2.9
87.5°	0.0	0.0	2.9	4.3	7.2	10.1	14.4	11.6	4.3	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°
7803.8	0°	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8	7803.8
7779.3	2.5°	7818.3	7809.6	7838.5	7850.1	7865.9	7805.3	7767.7	7769.2	7699.9
7691.2	5°	7737.4	7738.9	7776.4	7773.5	7789.4	7756.2	7741.7	7717.2	7656.5
7580.0	7.5°	7634.9	7621.9	7658.0	7685.4	7645.0	7668.1	7634.9	7646.4	7610.3
7481.8	10°	7555.5	7525.1	7558.3	7577.1	7578.6	7555.5	7523.7	7493.4	7480.4
7328.7	12.5°	7379.3	7340.3	7396.6	7422.6	7418.3	7373.5	7337.4	7344.6	7302.7
7060.1	15°	7136.7	7138.1	7178.6	7203.1	7180.0	7169.9	7172.8	7155.4	7119.3
6689.0	17.5°	6765.5	6787.2	6894.1	6953.3	6966.3	6946.1	6935.9	6915.7	6879.6
6096.9	20°	6147.5	6277.4	6468.1	6651.5	6687.6	6681.8	6645.7	6637.0	6616.8
5510.6	22.5°	5604.5	5701.3	5922.2	6208.1	6355.4	6369.9	6326.5	6313.5	6291.9
4986.4	25°	5042.7	5146.7	5346.0	5656.5	5961.2	6023.3	6016.1	5977.1	5954.0
4521.4	27.5°	4569.1	4673.1	4853.6	5133.7	5460.1	5659.4	5678.1	5616.1	5614.6
4107.0	30°	4141.6	4284.6	4421.8	4650.0	4966.2	5265.1	5296.9	5253.6	5257.9
3727.2	32.5°	3806.6	3925.0	4042.0	4195.1	4457.9	4805.9	4930.1	4889.7	4873.8
3410.9	35°	3464.4	3545.2	3665.1	3805.2	3984.2	4329.4	4544.5	4514.2	4498.3
2983.5	37.5°	3074.5	3213.1	3299.7	3457.1	3597.2	3871.6	4174.9	4170.5	4137.3
2619.6	40°	2674.4	2820.3	2951.7	3110.6	3218.9	3436.9	3773.4	3772.0	3776.3
2242.7	42.5°	2312.0	2446.3	2605.1	2778.4	2882.4	3041.2	3402.3	3422.5	3447.0
1932.2	45°	1984.2	2105.5	2252.8	2463.6	2589.2	2680.2	3000.8	3093.2	3091.8
1654.9	47.5°	1689.6	1803.7	1927.9	2132.9	2293.2	2375.5	2641.2	2772.6	2764.0
1357.4	50°	1418.1	1519.2	1649.1	1797.9	2013.1	2085.3	2283.1	2456.4	2443.4
1081.6	52.5°	1140.8	1280.9	1390.7	1526.4	1753.1	1823.9	1977.0	2145.9	2135.8
811.6	55°	889.6	1025.3	1158.2	1275.1	1465.7	1571.2	1680.9	1854.2	1851.3
635.4	57.5°	672.9	821.7	947.3	1058.5	1210.1	1340.1	1428.2	1585.6	1605.8
434.7	60°	498.2	612.3	748.0	872.2	992.1	1126.4	1185.6	1340.1	1348.8
297.5	62.5°	339.4	465.0	597.9	710.5	800.0	938.7	992.1	1119.2	1135.1
190.6	65°	235.4	316.3	467.9	548.8	658.5	776.9	830.3	931.4	963.2
109.8	67.5°	156.0	225.3	365.4	439.0	547.3	628.2	696.0	778.4	813.0
69.3	70°	85.2	166.1	261.4	346.6	440.4	518.4	584.9	651.3	681.6
31.8	72.5°	57.8	111.2	182.0	274.4	355.2	431.8	491.0	540.1	541.5
18.8	75°	28.9	75.1	138.6	212.3	277.3	352.4	405.8	434.7	400.0
11.6	77.5°	17.3	54.9	112.6	170.4	225.3	284.5	314.8	330.7	274.4
8.7	80°	10.1	39.0	88.1	135.7	156.0	209.4	238.3	242.6	183.4
5.8	82.5°	7.2	28.9	69.3	99.6	95.3	147.3	179.1	173.3	117.0
4.3	85°	4.3	20.2	43.3	62.1	57.8	96.8	104.0	106.9	67.9
2.9	87.5°	2.9	11.6	23.1	33.2	27.4	41.9	41.9	50.5	33.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7803.8
7610.3
7642.1
7549.7
7422.6
7266.6
7083.2
6863.7
6570.6
6286.1
5929.4
5611.7
5236.3
4875.2
4476.7
4164.7
3776.3
3434.0
3094.7
2766.9
2454.9
2157.5
1858.5
1597.2
1361.8
1137.9
956.0
808.7
670.1
528.5
374.0
264.3
171.8
108.3
62.1
28.9
0.0

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