

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: P637810

Luminaire Tested: **IFLD-S-SA2A-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637810
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-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6510.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

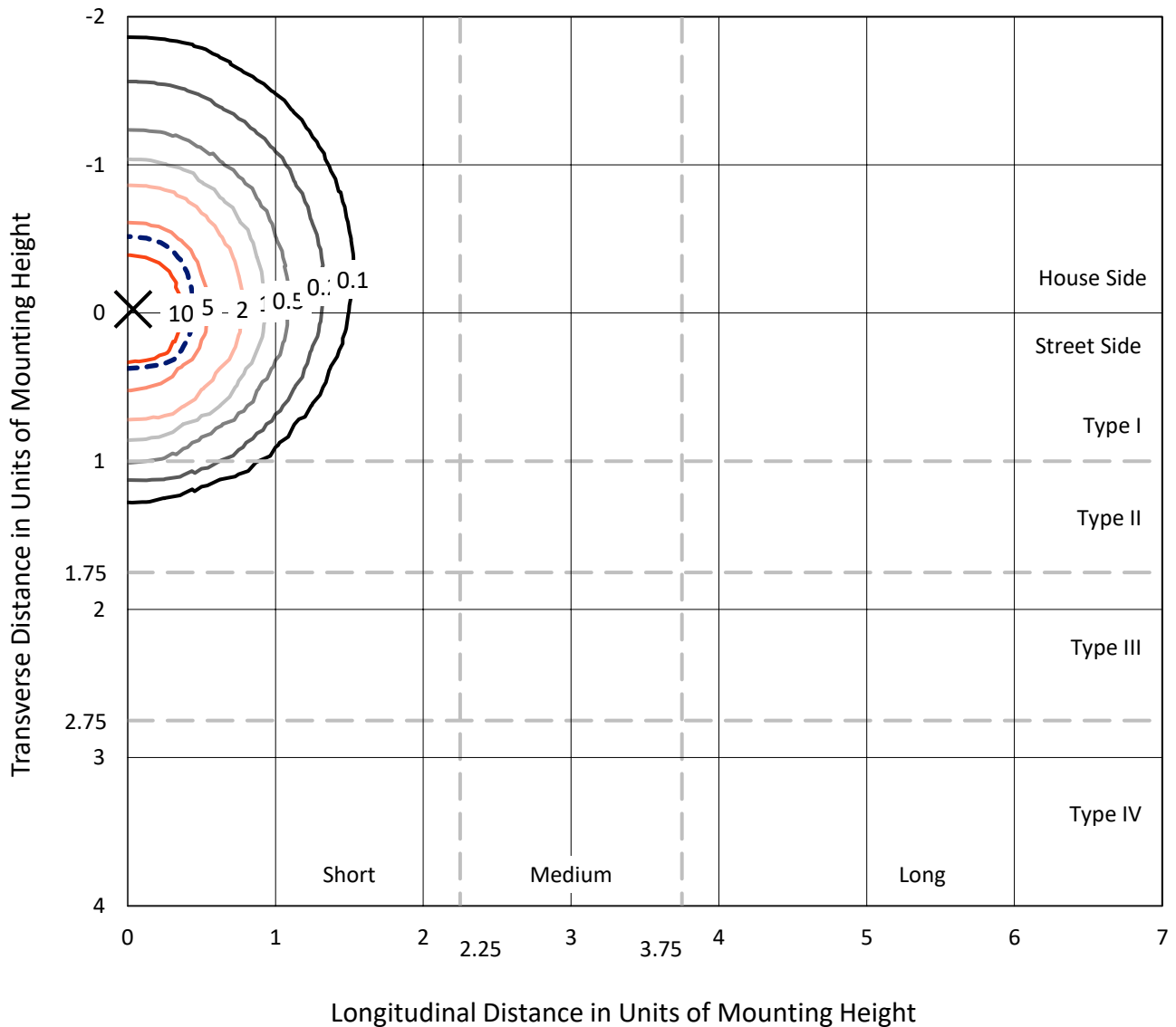
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

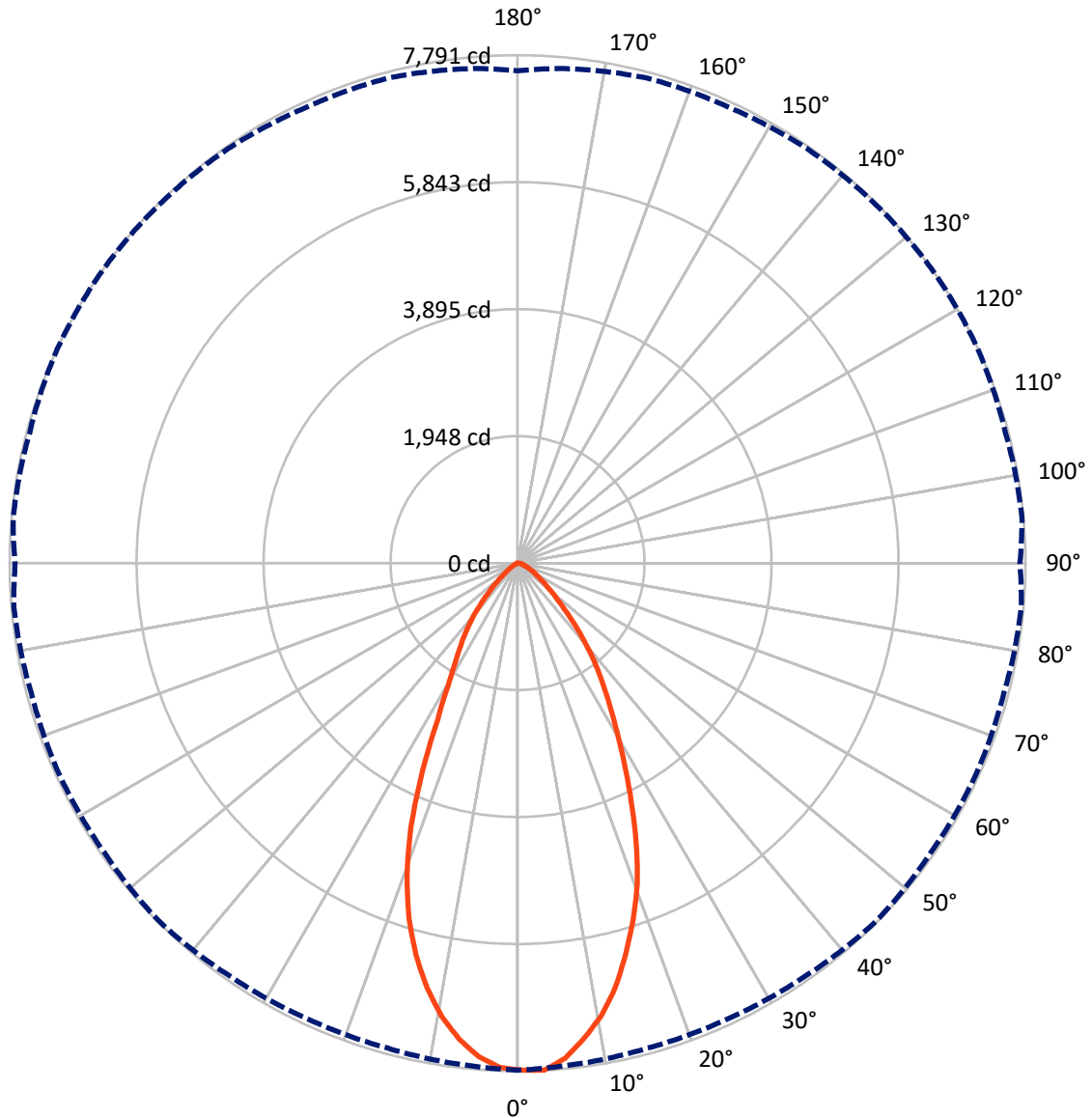
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3694.2	0.0	3694.2
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	2816.1	0.0	2816.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	6510.4	0.0	6510.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.3	10.8
10°-20°	1683.7	25.9
20°-30°	1714.8	26.3
30°-40°	1278.7	19.6
40°-50°	668.0	10.3
50°-60°	281.0	4.3
60°-70°	114.8	1.8
70°-80°	48.3	0.7
80°-90°	14.9	0.2
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°	6510.4	100.0
0°-180°	6510.4	100.0



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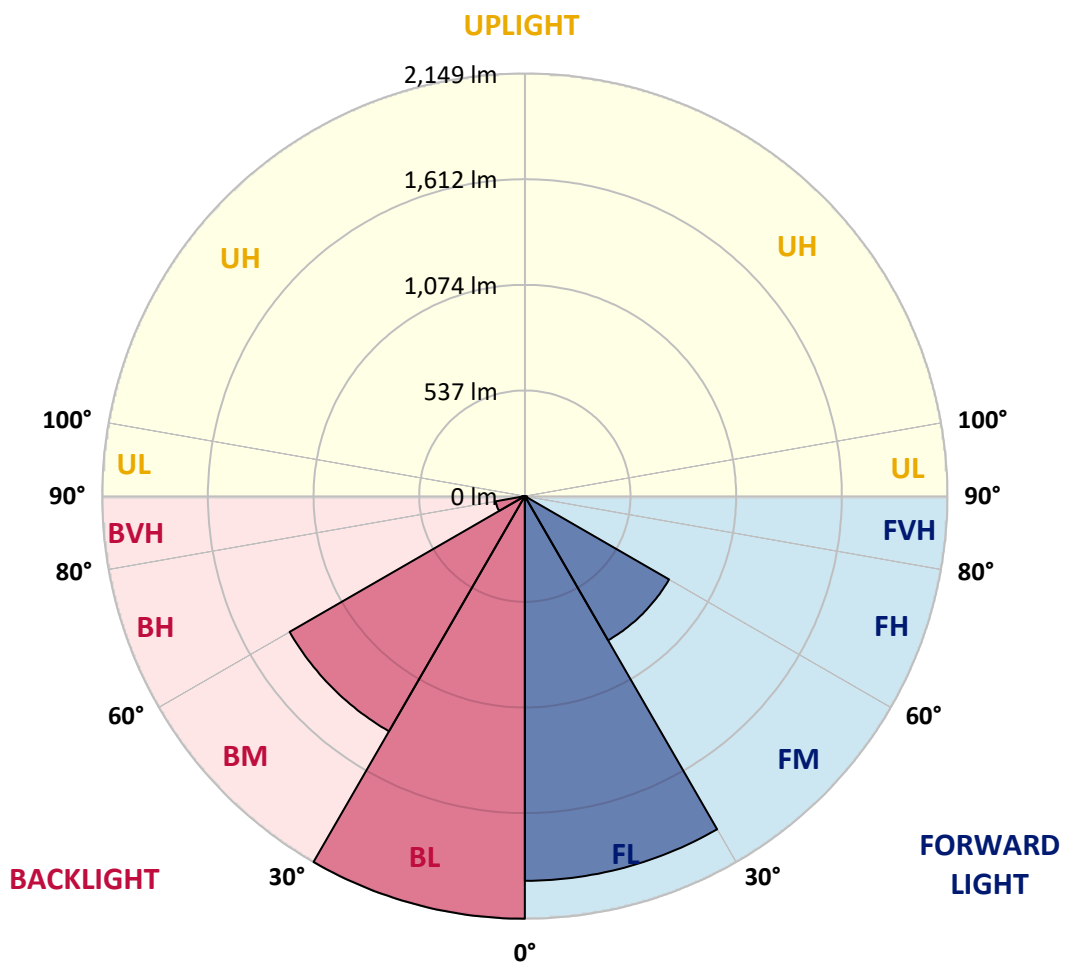
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1955.8	30.0			
FM (30°-60°)	846.7	13.0			
FH (60°-80°)	12.3	0.2			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	2148.9	33.0	B3/2500		
BM (30°-60°)	1381.0	21.2	B2/2500		
BH (60°-80°)	150.8	2.3	B1/500		G1/500
BVH (80°-90°)	13.5	0.2			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°	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3
2.5°	7779.1	7747.4	7702.2	7698.0	7721.4	7772.5	7739.8	7741.5	7721.4	7755.7
5°	7657.0	7626.9	7596.0	7555.0	7589.3	7611.0	7594.3	7575.9	7550.0	7583.5
7.5°	7426.2	7409.5	7363.5	7345.1	7366.0	7390.3	7354.3	7349.3	7313.3	7356.8
10°	7073.3	7066.6	7021.5	7010.6	7029.0	7065.8	7049.9	7046.6	7024.0	7019.8
12.5°	6707.0	6681.1	6625.1	6621.7	6649.3	6704.5	6661.9	6620.9	6633.4	6644.3
15°	5763.7	5736.1	5874.9	6093.2	6207.8	6203.6	6216.1	6166.8	6151.7	6156.7
17.5°	4582.0	4535.2	4585.4	4923.2	5467.6	5783.8	5696.8	5590.6	5533.7	5496.1
20°	3954.8	3957.3	3948.1	4035.1	4374.6	5095.5	5074.6	4869.7	4795.3	4764.3
22.5°	3573.5	3559.2	3539.2	3566.8	3657.9	4081.1	4364.6	4176.4	4150.5	4116.2
25°	3199.6	3199.6	3175.4	3203.0	3228.9	3234.8	3519.1	3596.0	3545.9	3545.9
27.5°	2876.0	2859.3	2848.4	2860.9	2826.7	2661.9	2697.9	3091.8	3057.5	3036.6
30°	2554.9	2549.8	2531.4	2548.2	2421.1	2235.4	2160.1	2609.2	2645.2	2637.6
32.5°	2109.1	2129.2	2211.1	2237.1	2019.6	1869.9	1798.0	2166.0	2309.8	2304.0
35°	1433.4	1450.1	1543.8	1853.2	1674.2	1567.2	1546.3	1722.8	1959.4	1982.0
37.5°	1141.5	1139.0	1165.8	1221.0	1345.6	1319.7	1313.8	1359.8	1598.1	1608.2
40°	940.8	937.5	936.6	891.5	860.5	1097.2	1081.3	1053.7	1260.3	1280.4
42.5°	758.5	761.9	764.4	665.7	620.5	846.3	837.1	808.7	988.5	1011.9
45°	595.4	594.6	599.6	495.9	483.4	541.1	625.5	603.0	746.0	771.1
47.5°	308.6	319.5	387.2	383.9	389.7	383.9	473.3	467.5	561.1	601.3
50°	207.4	210.7	216.6	217.4	306.9	282.7	321.1	363.8	393.1	454.9
52.5°	160.6	163.1	148.0	138.8	188.2	209.1	210.7	251.7	274.3	337.0
55°	89.5	100.4	107.9	108.7	103.7	154.7	153.9	186.5	204.1	245.9
57.5°	11.7	14.2	21.7	70.2	69.4	86.1	107.9	135.5	145.5	179.8
60°	0.8	1.7	2.5	10.9	46.0	50.2	73.6	84.5	101.2	126.3
62.5°	0.0	0.0	0.8	2.5	9.2	29.3	38.5	44.3	59.4	82.8
65°	0.0	0.0	0.8	1.7	3.3	10.9	15.1	24.3	35.1	51.0
67.5°	0.0	0.0	0.8	1.7	2.5	4.2	6.7	10.9	18.4	30.9
70°	0.0	0.0	0.8	1.7	2.5	3.3	5.0	6.7	10.0	16.7
72.5°	0.0	0.0	0.8	0.8	1.7	4.2	4.2	5.0	6.7	9.2
75°	0.0	0.0	0.8	1.7	2.5	4.2	4.2	4.2	5.0	5.9
77.5°	0.0	0.0	0.8	1.7	2.5	4.2	3.3	4.2	4.2	4.2
80°	0.0	0.0	0.8	1.7	2.5	4.2	5.0	4.2	3.3	3.3
82.5°	0.0	0.0	0.8	2.5	2.5	5.9	5.9	5.9	2.5	2.5
85°	0.0	0.0	1.7	2.5	4.2	6.7	6.7	5.0	2.5	1.7
87.5°	0.0	0.0	0.8	1.7	1.7	3.3	5.0	4.2	1.7	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°
7778.3	0°	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3	7778.3
7705.5	2.5°	7767.4	7746.5	7785.8	7790.9	7774.1	7753.2	7704.7	7700.5	7616.1
7534.9	5°	7620.2	7586.0	7611.0	7627.8	7621.9	7599.3	7579.3	7560.9	7484.8
7258.1	7.5°	7345.9	7333.4	7345.1	7357.7	7381.9	7357.7	7349.3	7330.1	7254.8
6985.5	10°	7041.5	7018.1	7062.4	7056.6	7049.9	7043.2	7008.1	7011.4	6922.8
6614.2	12.5°	6667.7	6628.4	6671.1	6676.1	6671.1	6647.6	6608.3	6625.1	6543.9
6112.4	15°	6165.1	6160.9	6191.9	6211.9	6226.2	6201.1	6187.7	6196.1	6147.5
5466.8	17.5°	5547.9	5602.3	5703.5	5737.8	5738.6	5764.5	5757.0	5747.0	5711.0
4751.8	20°	4822.0	4926.6	5082.1	5241.8	5287.8	5266.1	5256.1	5274.5	5220.9
4080.2	22.5°	4152.2	4241.6	4422.3	4655.6	4790.3	4803.6	4801.1	4785.2	4764.3
3542.5	25°	3583.5	3662.9	3836.0	4049.3	4307.7	4346.2	4347.9	4342.8	4324.4
3055.0	27.5°	3103.5	3199.6	3295.0	3485.6	3760.8	3919.7	3899.6	3893.8	3887.1
2643.5	30°	2668.6	2789.9	2879.3	2998.1	3244.8	3459.7	3480.6	3470.6	3454.7
2303.1	32.5°	2324.0	2396.0	2509.7	2590.0	2767.3	3010.6	3090.9	3083.4	3069.2
1996.2	35°	2024.7	2053.1	2142.6	2232.1	2350.0	2585.8	2704.6	2687.8	2685.3
1626.6	37.5°	1667.6	1762.9	1812.2	1902.6	1985.3	2168.5	2332.4	2324.9	2325.7
1308.0	40°	1346.4	1401.6	1499.5	1575.6	1651.7	1785.5	1967.8	1972.8	1971.1
1012.7	42.5°	1033.7	1087.2	1190.0	1272.8	1340.6	1423.4	1597.3	1603.2	1610.7
788.6	45°	807.0	841.3	916.6	1002.7	1074.6	1124.8	1256.9	1294.6	1295.4
611.3	47.5°	626.4	665.7	719.2	802.0	872.2	908.2	1004.4	1055.4	1052.9
469.2	50°	491.7	527.7	571.2	636.4	712.5	741.0	812.0	862.2	859.7
353.7	52.5°	376.3	422.3	460.8	511.0	585.4	609.7	660.7	718.4	710.0
259.2	55°	285.2	332.0	368.0	409.8	477.5	508.5	543.6	589.6	591.3
200.7	57.5°	214.9	263.4	296.0	338.7	389.7	424.0	450.8	500.1	499.3
137.2	60°	153.9	195.7	235.0	279.3	318.6	357.9	376.3	423.2	424.8
97.0	62.5°	111.2	150.5	188.2	226.6	261.8	300.2	317.0	353.7	358.8
63.6	65°	77.8	105.4	148.9	178.1	217.4	245.9	267.6	299.4	305.2
37.6	67.5°	50.2	76.1	117.9	143.8	179.8	204.1	226.6	251.7	259.2
24.3	70°	30.1	57.7	87.8	115.4	148.0	169.8	191.5	213.3	217.4
11.7	72.5°	19.2	40.1	63.6	93.7	118.8	142.2	161.4	177.3	164.7
7.5	75°	10.9	27.6	50.2	73.6	96.2	118.8	134.6	143.0	114.6
5.0	77.5°	6.7	20.1	41.0	59.4	74.4	95.3	105.4	110.4	82.0
3.3	80°	4.2	15.1	34.3	48.5	48.5	70.2	82.0	86.1	59.4
2.5	82.5°	3.3	10.9	26.8	36.8	32.6	52.7	64.4	65.2	41.8
1.7	85°	2.5	8.4	16.7	24.3	22.6	36.8	37.6	41.8	27.6
1.7	87.5°	1.7	5.0	10.0	14.2	12.5	17.6	20.1	22.6	15.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<hr/> 7778.3
7550.0
7423.7
7238.9
6892.7
6520.5
6089.0
5657.5
5182.5
4724.2
4262.6
3847.8
3434.6
3031.5
2657.7
2299.0
1941.9
1585.6
1273.7
1043.7
859.7
710.8
591.3
497.6
420.7
357.1
303.6
258.4
214.1
153.0
108.7
76.9
55.2
38.5
25.1
13.4
0.0

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