

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: P636718

Luminaire Tested: **IFLD-S-SA6A-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636718
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13143.3 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

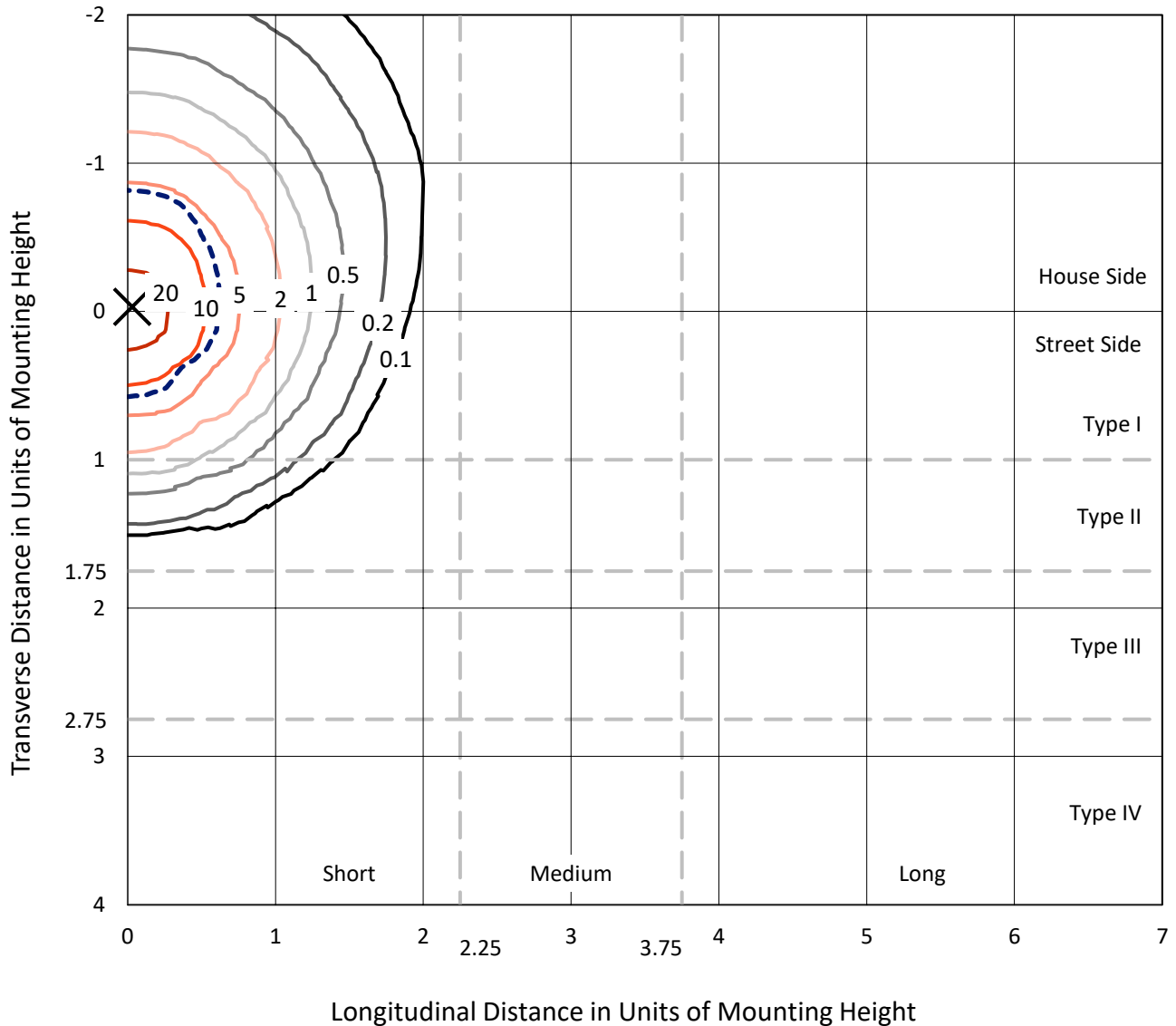
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

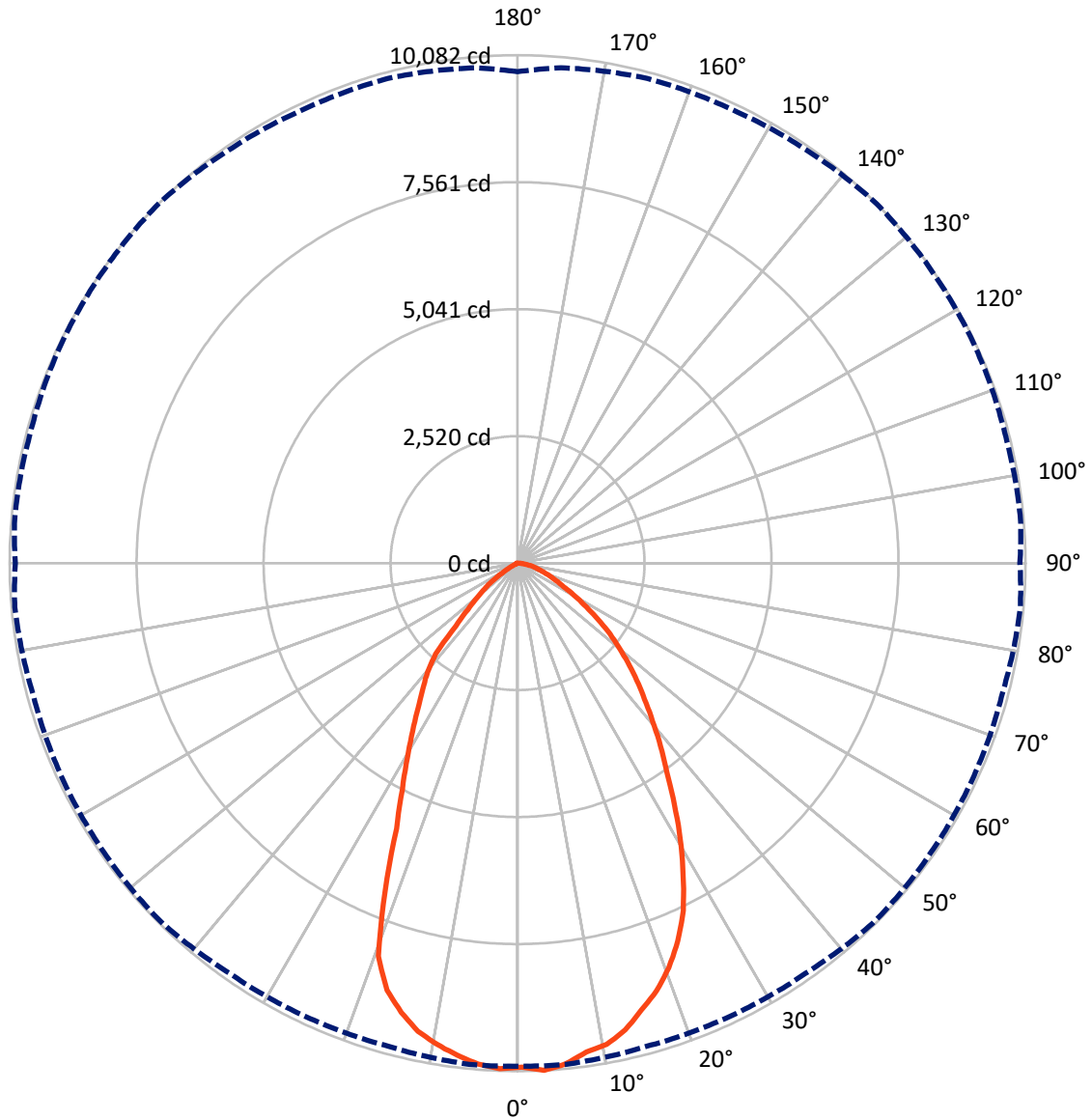
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25 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	7784.1	0.0	7784.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5359.2	0.0	5359.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	13143.3	0.0	13143.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.0	7.1
10°-20°	2515.4	19.1
20°-30°	3067.7	23.3
30°-40°	2800.7	21.3
40°-50°	2024.0	15.4
50°-60°	1105.1	8.4
60°-70°	456.9	3.5
70°-80°	185.1	1.4
80°-90°	50.4	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°	13143.3	100.0
0°-180°	13143.3	100.0



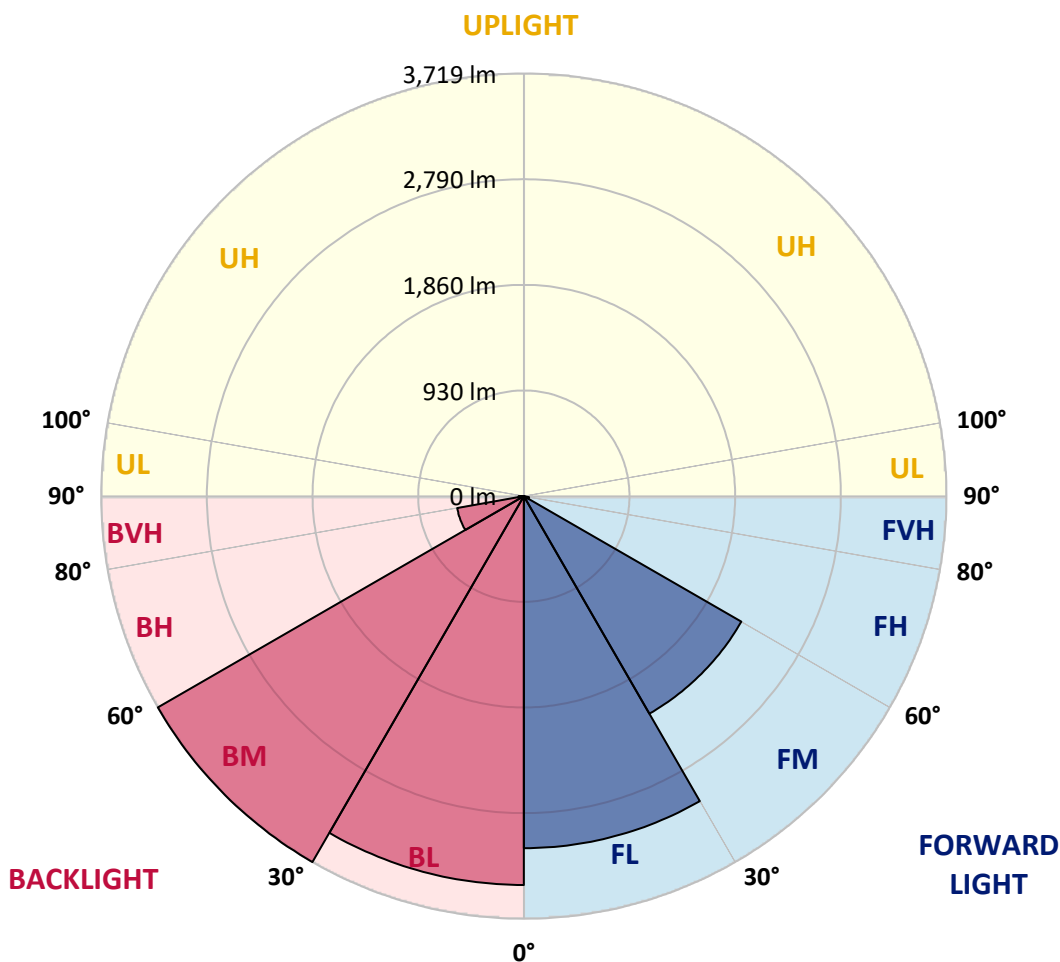
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3098.4	23.6			
FM (30°-60°)	2210.5	16.8			
FH (60°-80°)	46.3	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	3422.7	26.0	B4/5000		
BM (30°-60°)	3719.4	28.3	B3/5000		
BH (60°-80°)	595.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	46.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0
2.5°	9983.5	9996.5	9926.1	9933.5	9946.5	10040.9	10016.8	9994.6	9963.1	10016.8
5°	9970.6	9978.0	9903.9	9878.0	9889.1	9974.3	9896.5	9896.5	9889.1	9879.9
7.5°	9870.6	9874.3	9816.9	9770.7	9800.3	9839.1	9781.8	9809.5	9768.8	9800.3
10°	9720.7	9696.6	9628.1	9615.2	9648.5	9685.5	9646.7	9672.6	9635.5	9659.6
12.5°	9500.4	9463.4	9407.9	9391.2	9448.6	9498.6	9467.1	9452.3	9404.2	9463.4
15°	8650.9	8623.1	8749.0	8969.2	9167.3	9209.9	9176.5	9191.3	9091.4	9108.1
17.5°	7120.2	7068.4	7203.5	7725.5	8469.5	8861.9	8832.3	8736.0	8588.0	8621.3
20°	6470.6	6455.8	6441.0	6565.0	7085.1	8275.2	8315.9	8071.6	7860.6	7814.3
22.5°	6104.1	6098.6	6083.8	6111.5	6248.5	7012.9	7479.3	7253.5	7112.8	7099.9
25°	5769.1	5759.9	5715.4	5750.6	5750.6	5795.0	6392.9	6529.8	6405.8	6391.0
27.5°	5428.6	5411.9	5404.5	5421.2	5336.0	5036.2	5187.9	5856.1	5791.3	5795.0
30°	5060.2	5054.7	5034.3	5069.5	4806.7	4434.6	4338.4	5245.3	5258.3	5254.6
32.5°	4512.4	4536.4	4629.0	4667.9	4234.8	3927.5	3766.5	4538.3	4803.0	4797.4
35°	3277.9	3277.9	3579.6	4140.4	3711.0	3479.6	3392.6	3847.9	4353.2	4371.7
37.5°	2694.8	2704.1	2763.3	3018.7	3202.0	3120.5	3094.6	3239.0	3775.7	3805.4
40°	2424.6	2424.6	2424.6	2319.1	2313.6	2811.4	2796.6	2750.4	3261.2	3326.0
42.5°	2178.5	2184.0	2187.7	1921.2	1773.1	2430.2	2396.9	2326.5	2800.3	2876.2
45°	1924.9	1934.1	1945.2	1606.5	1541.8	1749.1	2028.5	1950.8	2345.0	2443.1
47.5°	1175.3	1190.1	1441.8	1362.2	1369.6	1349.3	1654.7	1641.7	1923.0	2061.9
50°	794.0	799.6	823.6	864.3	1175.3	1060.5	1171.6	1358.5	1460.3	1671.3
52.5°	666.3	675.6	616.3	560.8	771.8	829.2	818.1	1008.7	1049.4	1310.4
55°	468.3	497.9	470.1	464.6	438.7	644.1	620.0	775.5	801.4	995.8
57.5°	48.1	55.5	96.2	346.1	286.9	364.6	442.4	568.2	594.1	734.8
60°	3.7	3.7	9.3	48.1	209.1	218.4	305.4	349.8	399.8	512.7
62.5°	0.0	1.9	3.7	7.4	33.3	116.6	153.6	183.2	240.6	331.3
65°	0.0	0.0	1.9	5.6	7.4	44.4	59.2	96.2	131.4	205.4
67.5°	0.0	0.0	1.9	3.7	5.6	11.1	20.4	35.2	70.3	116.6
70°	0.0	0.0	1.9	3.7	5.6	9.3	14.8	22.2	31.5	62.9
72.5°	0.0	0.0	1.9	1.9	3.7	9.3	11.1	14.8	22.2	31.5
75°	0.0	0.0	1.9	1.9	5.6	11.1	9.3	11.1	14.8	20.4
77.5°	0.0	0.0	1.9	3.7	5.6	11.1	9.3	11.1	11.1	13.0
80°	0.0	0.0	1.9	3.7	7.4	13.0	11.1	11.1	9.3	9.3
82.5°	0.0	0.0	1.9	5.6	7.4	16.7	16.7	14.8	7.4	5.6
85°	0.0	0.0	3.7	7.4	11.1	18.5	18.5	14.8	5.6	3.7
87.5°	0.0	0.0	3.7	5.6	9.3	13.0	18.5	14.8	5.6	1.9
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°
10002.0	0°	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0	10002.0
9970.6	2.5°	10020.5	10009.4	10046.4	10061.2	10081.6	10003.9	9955.7	9957.6	9868.8
9857.6	5°	9916.9	9918.7	9966.8	9963.1	9983.5	9940.9	9922.4	9891.0	9813.2
9715.1	7.5°	9785.5	9768.8	9815.1	9850.2	9798.4	9828.0	9785.5	9800.3	9754.0
9589.3	10°	9683.7	9644.8	9687.4	9711.4	9713.3	9683.7	9643.0	9604.1	9587.4
9393.1	12.5°	9457.9	9407.9	9480.1	9513.4	9507.8	9450.5	9404.2	9413.4	9359.8
9048.8	15°	9146.9	9148.8	9200.6	9232.1	9202.4	9189.5	9193.2	9171.0	9124.7
8573.2	17.5°	8671.3	8699.0	8836.0	8911.9	8928.5	8902.6	8889.7	8863.7	8817.5
7814.3	20°	7879.1	8045.7	8290.0	8525.0	8571.3	8563.9	8517.6	8506.5	8480.6
7062.9	22.5°	7183.2	7307.2	7590.4	7956.8	8145.6	8164.1	8108.6	8091.9	8064.2
6391.0	25°	6463.2	6596.4	6851.9	7249.8	7640.3	7719.9	7710.7	7660.7	7631.1
5795.0	27.5°	5856.1	5989.4	6220.7	6579.8	6998.1	7253.5	7277.6	7198.0	7196.1
5263.8	30°	5308.2	5491.5	5667.3	5959.8	6365.1	6748.2	6788.9	6733.4	6739.0
4777.1	32.5°	4878.9	5030.6	5180.5	5376.7	5713.6	6159.6	6318.8	6267.0	6246.6
4371.7	35°	4440.2	4543.8	4697.5	4877.0	5106.5	5548.9	5824.6	5785.8	5765.4
3823.9	37.5°	3940.5	4118.2	4229.2	4430.9	4610.5	4962.1	5350.8	5345.3	5302.7
3357.4	40°	3427.8	3614.7	3783.1	3986.7	4125.6	4405.0	4836.3	4834.4	4840.0
2874.4	42.5°	2963.2	3135.3	3338.9	3561.0	3694.3	3897.9	4360.6	4386.5	4418.0
2476.4	45°	2543.1	2698.5	2887.3	3157.6	3318.6	3435.2	3846.1	3964.5	3962.7
2121.1	47.5°	2165.5	2311.7	2470.9	2733.7	2939.2	3044.7	3385.2	3553.6	3542.5
1739.8	50°	1817.5	1947.1	2113.7	2304.3	2580.1	2672.6	2926.2	3148.3	3131.6
1386.3	52.5°	1462.2	1641.7	1782.4	1956.4	2246.9	2337.6	2533.8	2750.4	2737.4
1040.2	55°	1140.1	1314.1	1484.4	1634.3	1878.6	2013.7	2154.4	2376.5	2372.8
814.4	57.5°	862.5	1053.1	1214.2	1356.7	1551.0	1717.6	1830.5	2032.2	2058.1
557.1	60°	638.5	784.8	958.7	1117.9	1271.5	1443.7	1519.6	1717.6	1728.7
381.3	62.5°	435.0	596.0	766.3	910.6	1025.4	1203.1	1271.5	1434.4	1454.8
244.3	65°	301.7	405.3	599.7	703.3	844.0	995.8	1064.2	1193.8	1234.5
140.7	67.5°	199.9	288.7	468.3	562.7	701.5	805.1	892.1	997.6	1042.0
88.8	70°	109.2	212.8	335.0	444.2	564.5	664.5	749.6	834.7	873.6
40.7	72.5°	74.0	142.5	233.2	351.7	455.3	553.4	629.3	692.2	694.1
24.1	75°	37.0	96.2	177.7	272.1	355.4	451.6	520.1	557.1	512.7
14.8	77.5°	22.2	70.3	144.4	218.4	288.7	364.6	403.5	423.8	351.7
11.1	80°	13.0	50.0	112.9	174.0	199.9	268.4	305.4	310.9	235.1
7.4	82.5°	9.3	37.0	88.8	127.7	122.2	188.8	229.5	222.1	149.9
5.6	85°	5.6	25.9	55.5	79.6	74.0	124.0	133.3	137.0	87.0
3.7	87.5°	3.7	14.8	29.6	42.6	35.2	53.7	53.7	64.8	42.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10002.0
9754.0
9794.7
9676.3
9513.4
9313.5
9078.4
8797.1
8421.4
8056.8
7599.6
7192.4
6711.2
6248.5
5737.6
5337.9
4840.0
4401.3
3966.4
3546.2
3146.5
2765.2
2382.0
2047.0
1745.4
1458.5
1225.3
1036.5
858.8
677.4
479.4
338.7
220.3
138.8
79.6
37.0
0.0

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