

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: P638255

Luminaire Tested: **IFLD-S-SA6A-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638255
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15260.8 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

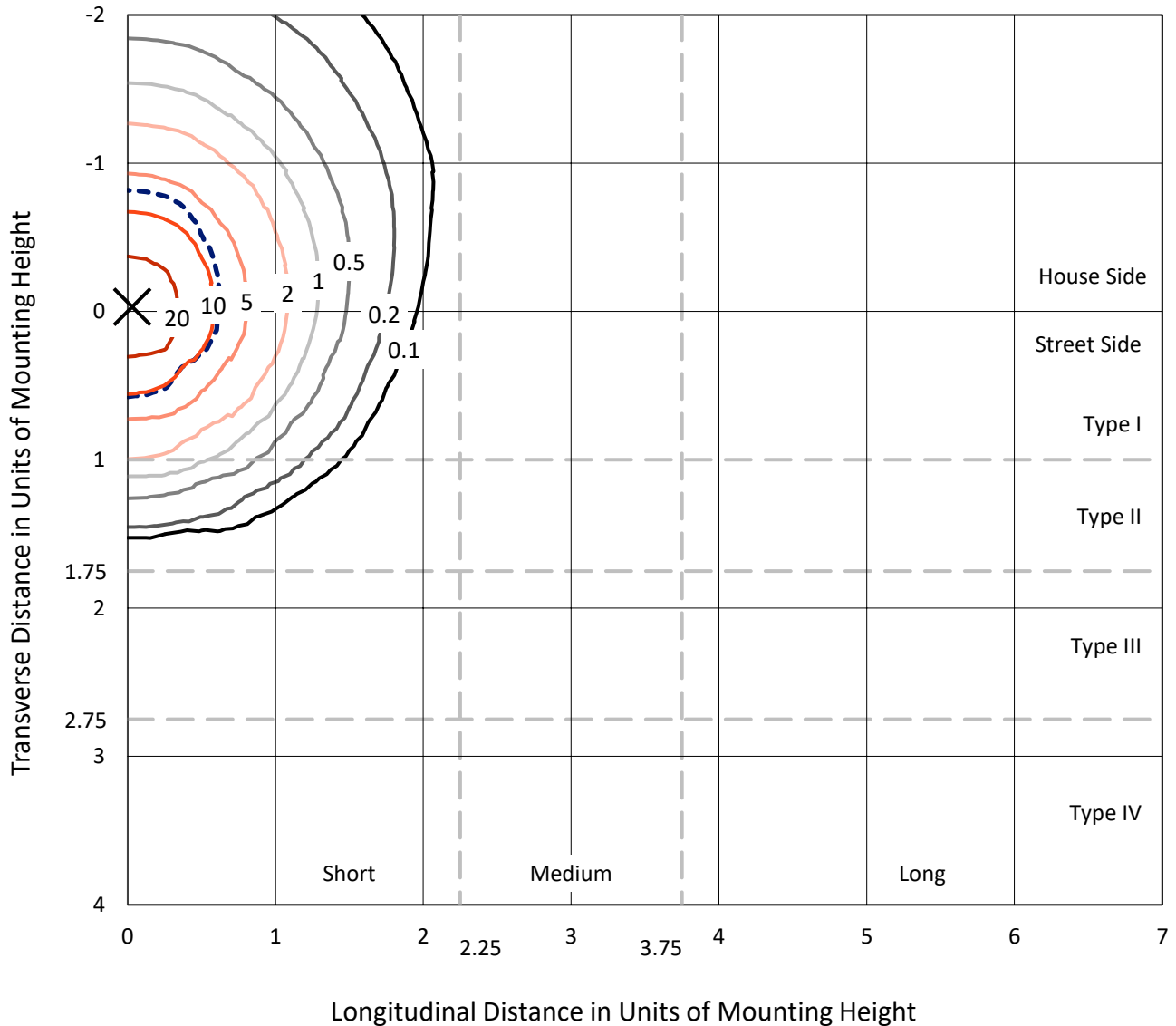
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

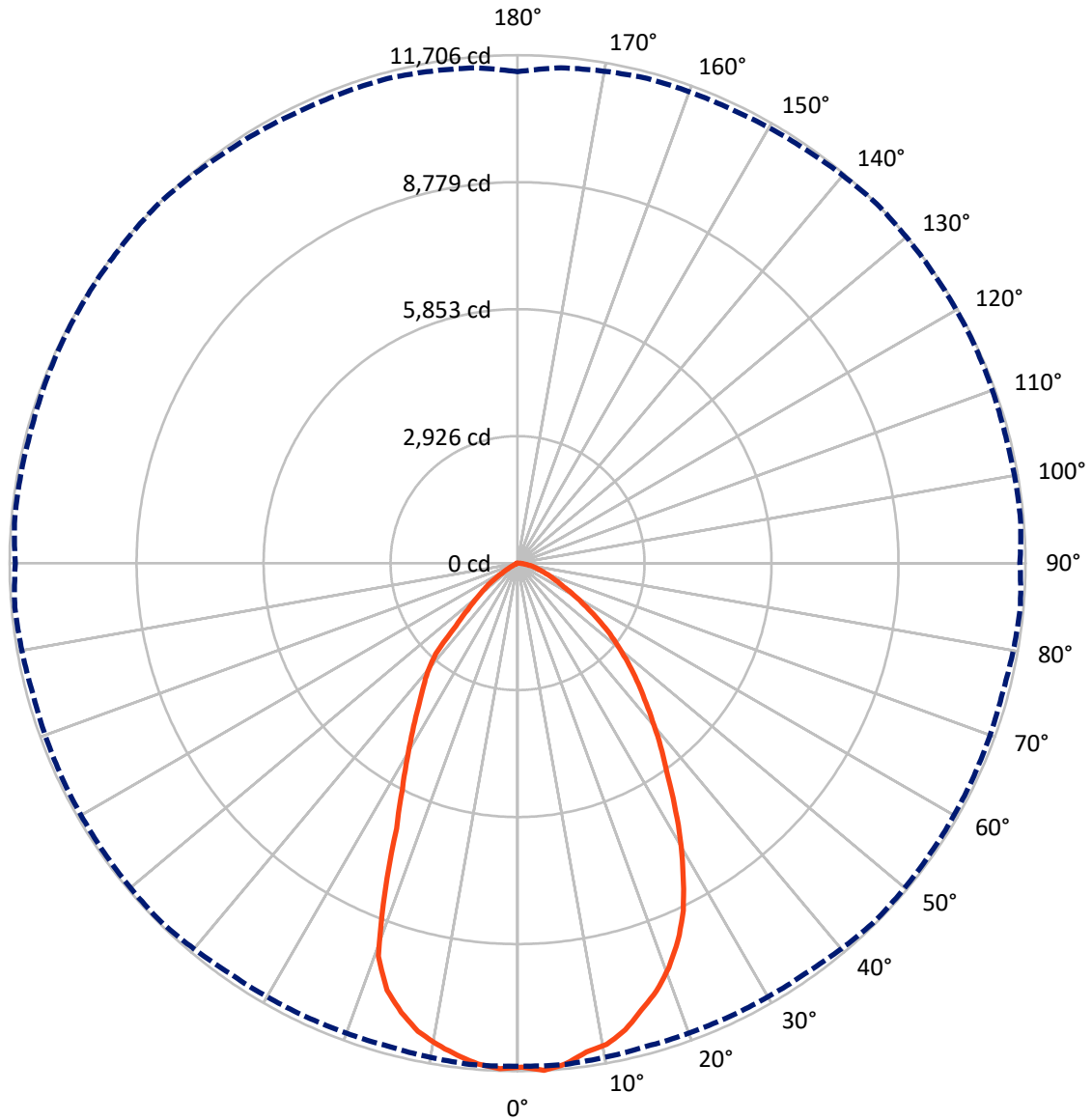
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29 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	9038.3	0.0	9038.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6222.6	0.0	6222.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	15260.8	0.0	15260.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.2	7.1
10°-20°	2920.6	19.1
20°-30°	3561.9	23.3
30°-40°	3252.0	21.3
40°-50°	2350.1	15.4
50°-60°	1283.2	8.4
60°-70°	530.6	3.5
70°-80°	214.9	1.4
80°-90°	58.4	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°	15260.8	100.0
0°-180°	15260.8	100.0



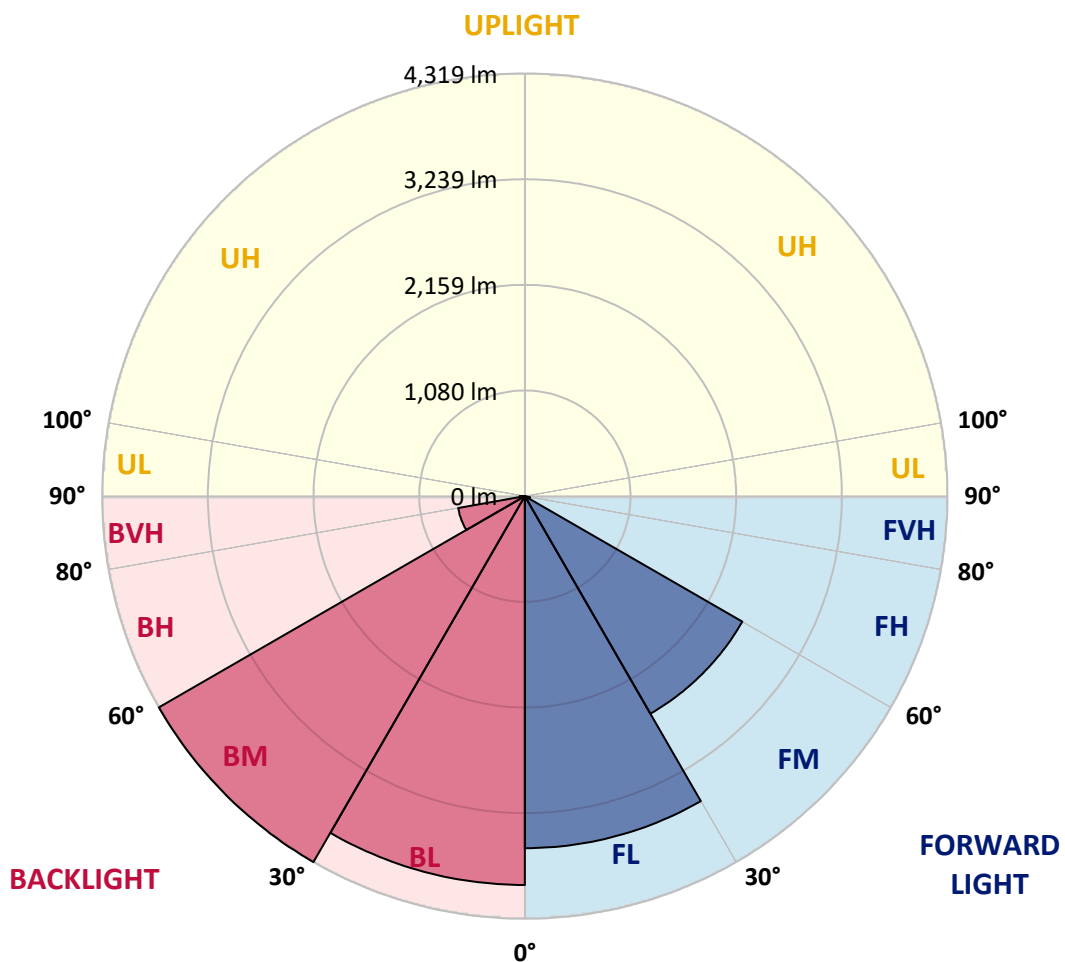
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3597.5	23.6			
FM (30°-60°)	2566.6	16.8			
FH (60°-80°)	53.8	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3974.1	26.0	B4/5000		
BM (30°-60°)	4318.7	28.3	B3/5000		
BH (60°-80°)	691.7	4.5	B2/1000		G2/1000
BVH (80°-90°)	53.8	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°	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5
2.5°	11592.0	11607.0	11525.3	11533.9	11549.0	11658.6	11630.7	11604.9	11568.3	11630.7
5°	11576.9	11585.5	11499.6	11469.5	11482.4	11581.2	11491.0	11491.0	11482.4	11471.6
7.5°	11460.9	11465.2	11398.6	11344.8	11379.2	11424.3	11357.7	11390.0	11342.7	11379.2
10°	11286.8	11258.9	11179.4	11164.3	11203.0	11246.0	11200.8	11230.9	11187.9	11215.9
12.5°	11031.1	10988.1	10923.6	10904.3	10970.9	11028.9	10992.4	10975.2	10919.3	10988.1
15°	10044.7	10012.4	10158.6	10414.3	10644.2	10693.7	10655.0	10672.2	10556.1	10575.5
17.5°	8267.4	8207.2	8364.1	8970.1	9834.0	10289.6	10255.3	10143.5	9971.6	10010.3
20°	7513.1	7495.9	7478.7	7622.7	8226.6	9608.4	9655.7	9372.0	9127.0	9073.3
22.5°	7087.6	7081.1	7063.9	7096.2	7255.2	8142.7	8684.3	8422.1	8258.8	8243.8
25°	6698.6	6687.8	6636.3	6677.1	6677.1	6728.7	7422.8	7581.8	7437.9	7420.7
27.5°	6303.2	6283.8	6275.2	6294.6	6195.7	5847.6	6023.8	6799.6	6724.4	6728.7
30°	5875.5	5869.1	5845.4	5886.2	5581.1	5149.1	5037.4	6090.4	6105.4	6101.1
32.5°	5239.4	5267.3	5374.8	5419.9	4917.0	4560.3	4373.3	5269.5	5576.8	5570.3
35°	3806.0	3806.0	4156.3	4807.4	4308.8	4040.2	3939.2	4467.9	5054.6	5076.1
37.5°	3129.0	3139.8	3208.5	3505.1	3717.9	3623.3	3593.2	3760.8	4384.1	4418.4
40°	2815.3	2815.3	2815.3	2692.8	2686.3	3264.4	3247.2	3193.5	3786.6	3861.8
42.5°	2529.4	2535.9	2540.2	2230.7	2058.8	2821.7	2783.0	2701.4	3251.5	3339.6
45°	2235.0	2245.8	2258.7	1865.4	1790.2	2030.9	2355.4	2265.1	2722.8	2836.7
47.5°	1364.6	1381.8	1674.1	1581.7	1590.3	1566.7	1921.2	1906.2	2232.9	2394.0
50°	921.9	928.4	956.3	1003.6	1364.6	1231.4	1360.3	1577.4	1695.6	1940.6
52.5°	773.7	784.4	715.6	651.2	896.2	962.8	949.9	1171.2	1218.5	1521.5
55°	543.7	578.1	545.9	539.4	509.3	747.9	719.9	900.5	930.5	1156.2
57.5°	55.9	64.5	111.8	401.9	333.1	423.4	513.6	659.8	689.8	853.2
60°	4.3	4.3	10.7	55.9	242.8	253.6	354.6	406.2	464.2	595.3
62.5°	0.0	2.1	4.3	8.6	38.7	135.4	178.4	212.8	279.4	384.7
65°	0.0	0.0	2.1	6.4	8.6	51.6	68.8	111.8	152.6	238.5
67.5°	0.0	0.0	2.1	4.3	6.4	12.9	23.6	40.8	81.7	135.4
70°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	25.8	36.5	73.1
72.5°	0.0	0.0	2.1	2.1	4.3	10.7	12.9	17.2	25.8	36.5
75°	0.0	0.0	2.1	2.1	6.4	12.9	10.7	12.9	17.2	23.6
77.5°	0.0	0.0	2.1	4.3	6.4	12.9	10.7	12.9	12.9	15.0
80°	0.0	0.0	2.1	4.3	8.6	15.0	12.9	12.9	10.7	10.7
82.5°	0.0	0.0	2.1	6.4	8.6	19.3	19.3	17.2	8.6	6.4
85°	0.0	0.0	4.3	8.6	12.9	21.5	21.5	17.2	6.4	4.3
87.5°	0.0	0.0	4.3	6.4	10.7	15.0	21.5	17.2	6.4	2.1
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°
11613.5	0°	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5	11613.5
11576.9	2.5°	11635.0	11622.1	11665.0	11682.2	11705.9	11615.6	11559.7	11561.9	11458.7
11445.8	5°	11514.6	11516.8	11572.6	11568.3	11592.0	11542.5	11521.1	11484.5	11394.3
11280.4	7.5°	11362.0	11342.7	11396.4	11437.2	11377.1	11411.4	11362.0	11379.2	11325.5
11134.2	10°	11243.8	11198.7	11248.1	11276.1	11278.2	11243.8	11196.5	11151.4	11132.1
10906.4	12.5°	10981.6	10923.6	11007.4	11046.1	11039.7	10973.0	10919.3	10930.1	10867.7
10506.7	15°	10620.6	10622.7	10682.9	10719.5	10685.1	10670.0	10674.3	10648.5	10594.8
9954.4	17.5°	10068.3	10100.5	10259.6	10347.7	10367.0	10336.9	10321.9	10291.8	10238.1
9073.3	20°	9148.5	9341.9	9625.6	9898.5	9952.2	9943.6	9889.9	9877.0	9846.9
8200.8	22.5°	8340.5	8484.4	8813.2	9238.8	9458.0	9479.5	9415.0	9395.6	9363.4
7420.7	25°	7504.5	7659.2	7955.8	8417.8	8871.3	8963.7	8952.9	8894.9	8860.5
6728.7	27.5°	6799.6	6954.3	7223.0	7639.9	8125.6	8422.1	8450.1	8357.7	8355.5
6111.9	30°	6163.5	6376.2	6580.4	6919.9	7390.6	7835.4	7882.7	7818.2	7824.7
5546.7	32.5°	5664.9	5841.1	6015.2	6243.0	6634.1	7152.0	7336.9	7276.7	7253.0
5076.1	35°	5155.6	5275.9	5454.3	5662.7	5929.2	6442.8	6763.1	6717.9	6694.3
4439.9	37.5°	4575.3	4781.6	4910.6	5144.8	5353.3	5761.6	6212.9	6206.5	6157.0
3898.4	40°	3980.0	4197.1	4392.7	4629.1	4790.2	5114.7	5615.5	5613.3	5619.8
3337.5	42.5°	3440.6	3640.5	3876.9	4134.8	4289.5	4525.9	5063.2	5093.2	5129.8
2875.4	45°	2952.8	3133.3	3352.5	3666.3	3853.2	3988.6	4465.7	4603.3	4601.1
2462.8	47.5°	2514.4	2684.2	2869.0	3174.1	3412.7	3535.2	3930.6	4126.2	4113.3
2020.1	50°	2110.4	2260.8	2454.2	2675.6	2995.8	3103.2	3397.6	3655.5	3636.2
1609.6	52.5°	1697.7	1906.2	2069.5	2271.5	2608.9	2714.2	2942.0	3193.5	3178.4
1207.8	55°	1323.8	1525.8	1723.5	1897.6	2181.3	2338.2	2501.5	2759.4	2755.1
945.6	57.5°	1001.5	1222.8	1409.8	1575.3	1800.9	1994.3	2125.4	2359.7	2389.7
646.9	60°	741.4	911.2	1113.2	1298.0	1476.4	1676.3	1764.4	1994.3	2007.2
442.7	62.5°	505.0	692.0	889.7	1057.3	1190.6	1396.9	1476.4	1665.5	1689.2
283.7	65°	350.3	470.6	696.3	816.6	980.0	1156.2	1235.7	1386.1	1433.4
163.3	67.5°	232.1	335.3	543.7	653.3	814.5	934.8	1035.8	1158.3	1209.9
103.2	70°	126.8	247.1	389.0	515.8	655.5	771.5	870.4	969.2	1014.4
47.3	72.5°	86.0	165.5	270.8	408.3	528.7	642.6	730.7	803.7	805.9
27.9	75°	43.0	111.8	206.3	315.9	412.6	524.4	603.9	646.9	595.3
17.2	77.5°	25.8	81.7	167.6	253.6	335.3	423.4	468.5	492.1	408.3
12.9	80°	15.0	58.0	131.1	202.0	232.1	311.6	354.6	361.0	272.9
8.6	82.5°	10.7	43.0	103.2	148.3	141.8	219.2	266.5	257.9	174.1
6.4	85°	6.4	30.1	64.5	92.4	86.0	144.0	154.7	159.0	101.0
4.3	87.5°	4.3	17.2	34.4	49.4	40.8	62.3	62.3	75.2	49.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11613.5
11325.5
11372.8
11235.2
11046.1
10814.0
10541.1
10214.4
9778.2
9354.8
8824.0
8351.2
7792.5
7255.2
6662.1
6197.9
5619.8
5110.4
4605.4
4117.6
3653.4
3210.7
2765.8
2376.8
2026.6
1693.5
1422.7
1203.5
997.2
786.6
556.6
393.3
255.7
161.2
92.4
43.0
0.0

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