

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: P637356

Luminaire Tested: **IFLD-S-SA6A-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637356
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25674.7 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

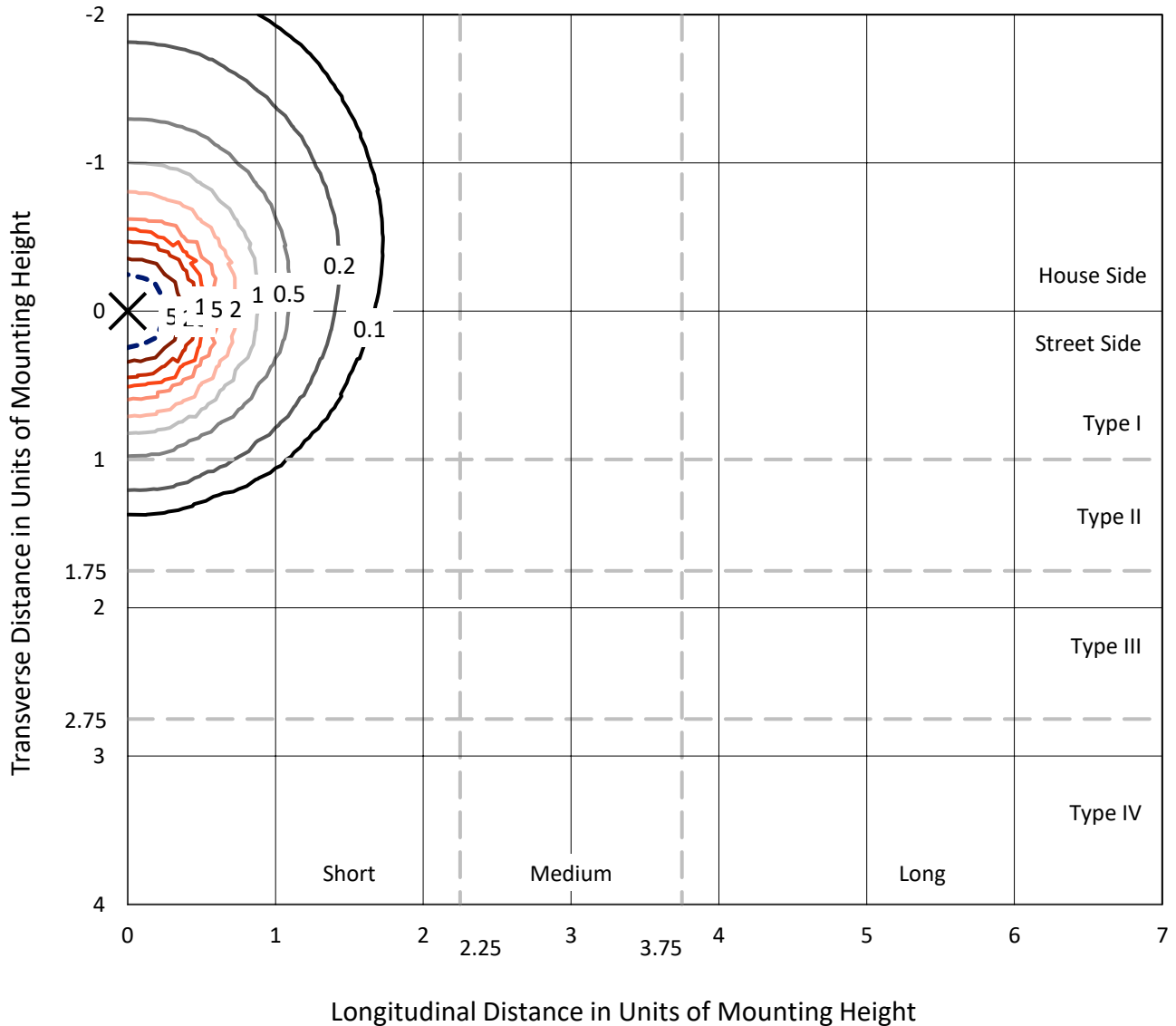
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

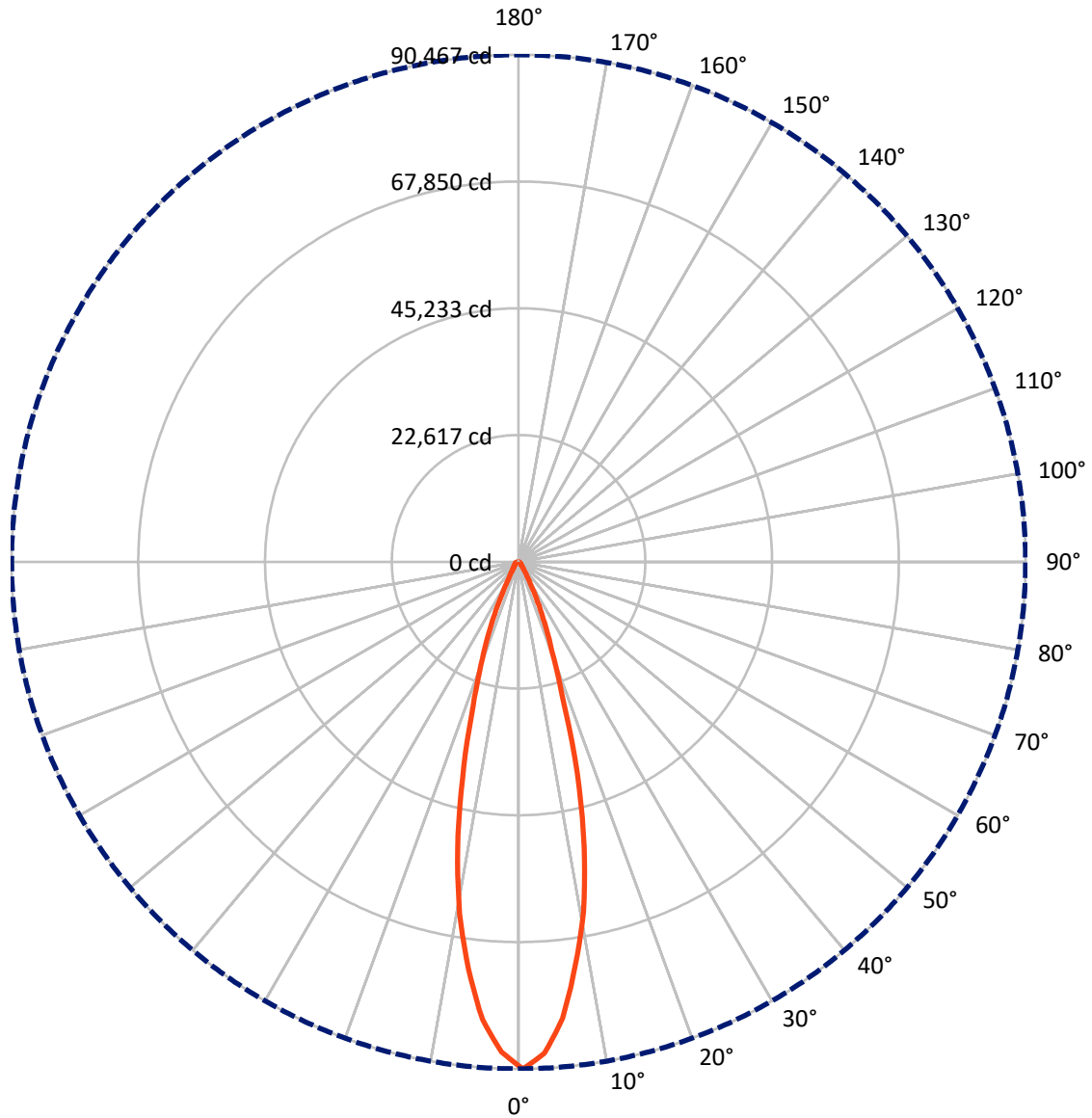
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 226.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13537.4	0.0	13537.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	12137.3	0.0	12137.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	25674.7	0.0	25674.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7301.5	28.4
10°-20°	11058.0	43.1
20°-30°	4666.5	18.2
30°-40°	1217.1	4.7
40°-50°	615.6	2.4
50°-60°	402.4	1.6
60°-70°	241.1	0.9
70°-80°	126.8	0.5
80°-90°	45.8	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°	25674.7	100.0
0°-180°	25674.7	100.0

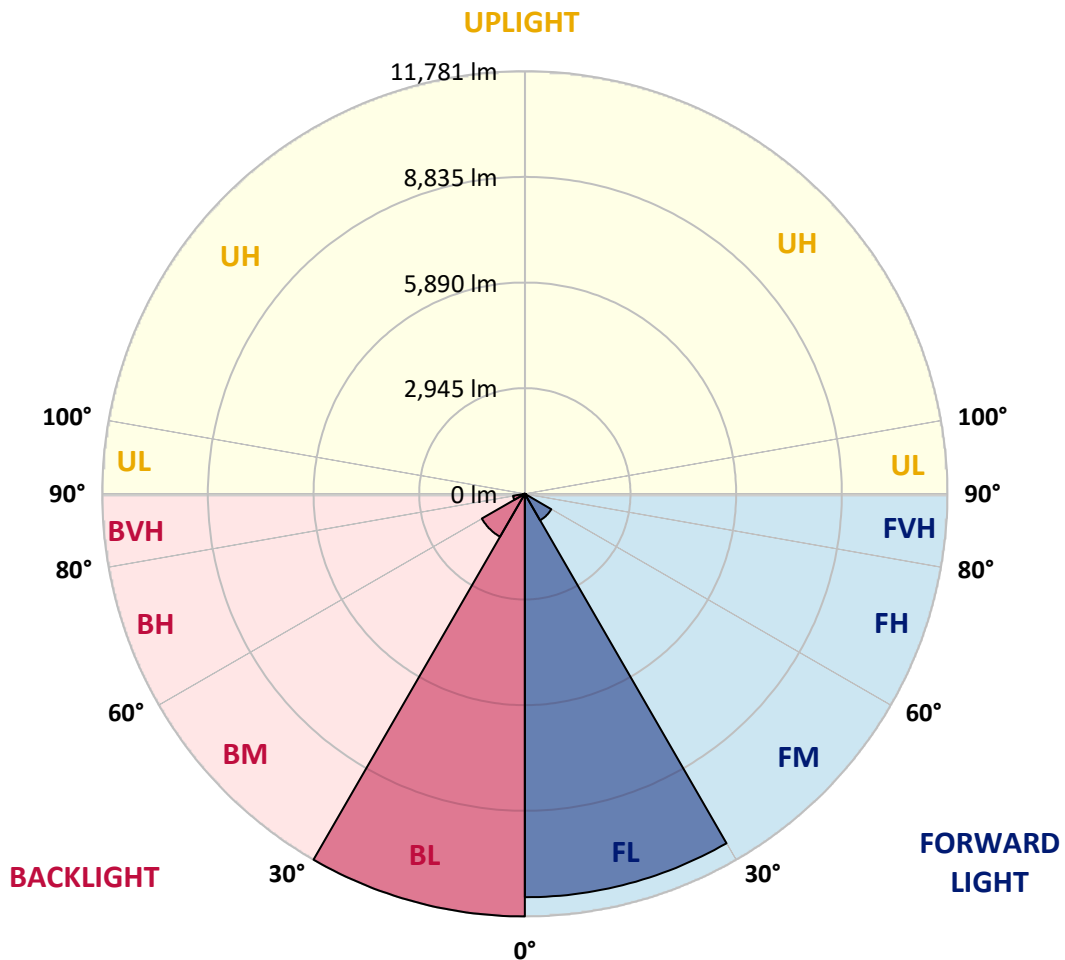


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11245.4	43.8			
FM (30°-60°)	851.6	3.3			
FH (60°-80°)	34.7	0.1			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	11780.6	45.9	B5		
BM (30°-60°)	1383.4	5.4	B2/2500		
BH (60°-80°)	333.2	1.3	B1/500		G0/660
BVH (80°-90°)	40.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6
2.5°	87831.2	87880.2	87698.6	88090.7	87785.1	88604.0	88197.4	88831.7	88618.4	88973.0
5°	81834.0	81753.2	81701.3	82309.7	82133.8	83013.2	82451.0	82266.5	82837.3	82733.6
7.5°	72777.5	72990.9	72869.8	73028.3	73117.7	74121.1	74438.3	74190.3	74199.0	74343.1
10°	63493.3	63179.0	62732.1	63029.0	63657.6	64095.9	63920.0	64283.3	64202.6	64545.7
12.5°	52069.6	52317.6	52066.7	51801.5	52900.0	52778.9	53084.5	53283.5	52784.7	53894.7
15°	39221.6	39351.3	39657.0	39636.8	40481.6	40651.7	40611.3	40821.8	40432.6	40617.1
17.5°	25197.2	25635.5	26457.2	27847.0	29409.7	29591.4	29545.2	29372.2	29184.8	28977.2
20°	16925.0	16878.9	17175.8	17582.4	20817.5	21673.8	21647.9	21105.8	20321.5	20171.6
22.5°	11856.1	11942.6	11902.3	12305.9	12974.9	15336.3	15045.1	14494.4	14237.8	14070.5
25°	7799.3	7767.6	7969.5	8090.6	8664.3	8952.7	9973.4	9768.6	9373.6	9416.9
27.5°	4754.6	4794.9	4869.9	4973.7	5380.2	5288.0	5870.4	5948.3	5821.4	5685.9
30°	2917.9	2946.7	3007.3	3082.3	3223.5	3122.6	3284.1	3563.8	3517.6	3422.5
32.5°	1980.8	1983.7	2027.0	2055.8	2038.5	1943.3	1995.2	2260.5	2266.3	2257.6
35°	1424.4	1424.4	1464.7	1487.8	1438.8	1360.9	1369.6	1533.9	1606.0	1620.4
37.5°	983.2	986.1	1055.3	1124.5	1069.7	1049.5	1014.9	1124.5	1239.8	1257.1
40°	746.8	743.9	778.5	830.4	836.2	798.7	810.2	879.4	997.6	1012.0
42.5°	605.5	608.4	625.7	619.9	622.8	671.8	689.1	720.8	830.4	856.3
45°	510.3	513.2	521.9	493.0	481.5	556.5	579.5	596.8	689.1	720.8
47.5°	421.0	426.7	435.4	403.7	397.9	446.9	487.3	504.6	585.3	619.9
50°	302.7	308.5	340.2	322.9	340.2	351.8	406.5	432.5	487.3	533.4
52.5°	219.1	224.9	233.5	236.4	279.7	285.4	325.8	366.2	392.1	444.0
55°	173.0	178.8	173.0	167.2	204.7	236.4	250.8	294.1	314.3	374.8
57.5°	98.0	103.8	112.4	129.7	135.5	181.6	196.1	233.5	250.8	308.5
60°	17.3	20.2	31.7	77.8	95.1	115.3	147.0	178.8	201.8	242.2
62.5°	2.9	2.9	5.8	17.3	54.8	80.7	106.7	126.9	147.0	184.5
65°	0.0	0.0	2.9	5.8	14.4	46.1	57.7	75.0	100.9	132.6
67.5°	0.0	0.0	2.9	5.8	8.6	17.3	25.9	46.1	57.7	89.4
70°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	20.2	34.6	54.8
72.5°	0.0	0.0	2.9	5.8	8.6	11.5	14.4	17.3	17.3	34.6
75°	0.0	0.0	2.9	5.8	8.6	14.4	17.3	17.3	14.4	14.4
77.5°	0.0	0.0	2.9	5.8	11.5	17.3	20.2	17.3	11.5	11.5
80°	0.0	0.0	5.8	8.6	14.4	20.2	25.9	20.2	11.5	5.8
82.5°	0.0	0.0	5.8	11.5	14.4	23.1	31.7	25.9	11.5	5.8
85°	0.0	0.0	2.9	8.6	17.3	23.1	31.7	23.1	11.5	2.9
87.5°	0.0	0.0	2.9	2.9	5.8	8.6	17.3	14.4	5.8	2.9
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°
90466.6	0°	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6	90466.6
88301.2	2.5°	88808.7	89270.0	89365.2	89238.3	89422.8	89091.2	88837.5	88180.1	87785.1
82701.8	5°	83235.2	83166.0	83647.6	83806.1	83786.0	83532.2	83177.6	82779.7	82393.3
74063.5	7.5°	74524.8	74614.2	75052.4	75332.1	75190.8	74873.7	74628.6	74328.7	74069.2
64669.6	10°	65260.7	64646.6	65191.5	65191.5	65569.2	64672.5	64756.1	64000.7	64035.3
53874.6	12.5°	54059.1	54281.1	54370.5	54627.1	54185.9	53710.2	53127.8	53012.4	52652.0
40265.4	15°	40844.9	41479.2	40934.3	41865.6	41415.8	40919.9	40830.5	39936.7	40219.2
29205.0	17.5°	29060.8	29761.5	29980.6	30514.0	30104.6	29810.5	29438.5	29167.5	29147.3
20445.5	20°	20607.0	21310.5	21472.0	22112.1	22065.9	21973.7	21659.4	21316.3	20944.3
13917.7	22.5°	14128.2	14702.0	15238.3	16100.4	16086.0	15814.9	15783.2	15298.8	15307.5
9402.5	25°	9500.5	9918.6	10045.4	10927.7	11025.8	10996.9	10832.6	10382.8	10552.9
5743.5	27.5°	5749.3	6115.5	6545.1	6856.5	7150.6	7104.5	6940.1	6689.3	6579.7
3451.3	30°	3543.6	3707.9	3866.5	4241.3	4417.2	4509.5	4431.6	4198.1	4215.4
2272.0	32.5°	2321.1	2459.5	2574.8	2811.2	2903.5	3073.6	3041.9	2992.9	2935.2
1634.8	35°	1692.5	1793.4	1871.3	1980.8	2099.0	2243.2	2266.3	2246.1	2223.0
1262.9	37.5°	1291.7	1395.5	1484.9	1531.0	1623.3	1735.7	1799.2	1796.3	1779.0
1029.3	40°	1049.5	1127.4	1208.1	1268.7	1332.1	1415.7	1493.6	1502.2	1502.2
865.0	42.5°	876.5	942.8	1023.6	1087.0	1133.1	1211.0	1291.7	1297.5	1291.7
732.4	45°	749.7	807.3	885.2	960.1	997.6	1055.3	1133.1	1150.4	1138.9
628.6	47.5°	651.6	703.5	769.8	850.6	890.9	942.8	1014.9	1035.1	1032.2
542.1	50°	559.4	619.9	686.2	752.5	804.4	853.5	922.7	945.7	937.1
461.3	52.5°	493.0	547.8	605.5	677.6	738.1	781.4	836.2	876.5	865.0
389.2	55°	412.3	478.6	539.2	599.7	674.7	720.8	772.7	821.7	810.2
328.7	57.5°	357.5	412.3	481.5	536.3	611.3	666.0	717.9	769.8	767.0
268.1	60°	299.9	357.5	423.8	481.5	550.7	611.3	663.2	720.8	726.6
201.8	62.5°	236.4	305.6	363.3	429.6	498.8	565.1	611.3	668.9	677.6
152.8	65°	178.8	250.8	314.3	377.7	446.9	519.0	559.4	608.4	617.0
112.4	67.5°	132.6	193.2	268.1	325.8	397.9	467.1	504.6	544.9	559.4
69.2	70°	100.9	147.0	224.9	279.7	354.6	409.4	449.8	484.4	495.9
46.1	72.5°	63.4	115.3	181.6	239.3	305.6	354.6	383.5	403.7	421.0
25.9	75°	43.2	89.4	147.0	204.7	253.7	291.2	317.2	334.5	348.9
11.5	77.5°	25.9	69.2	121.1	170.1	201.8	230.7	256.6	268.1	276.8
8.6	80°	14.4	51.9	100.9	138.4	158.6	178.8	198.9	213.4	219.1
5.8	82.5°	8.6	40.4	80.7	106.7	115.3	135.5	155.7	164.3	164.3
2.9	85°	5.8	28.8	54.8	77.8	83.6	98.0	103.8	109.6	115.3
2.9	87.5°	5.8	17.3	34.6	43.2	46.1	51.9	54.8	60.5	66.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
90466.6
87493.9
81960.8
73189.8
63698.0
52323.3
39936.7
28611.0
20782.9
15140.2
10284.7
6484.6
4140.4
2915.0
2214.4
1770.3
1484.9
1286.0
1138.9
1026.5
931.3
862.1
816.0
769.8
729.5
683.3
625.7
565.1
501.7
418.1
346.0
273.9
213.4
161.5
112.4
63.4
0.0

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