

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: P637815

Luminaire Tested: **IFLD-S-SA3A-727-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637815  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-727-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9702.2 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

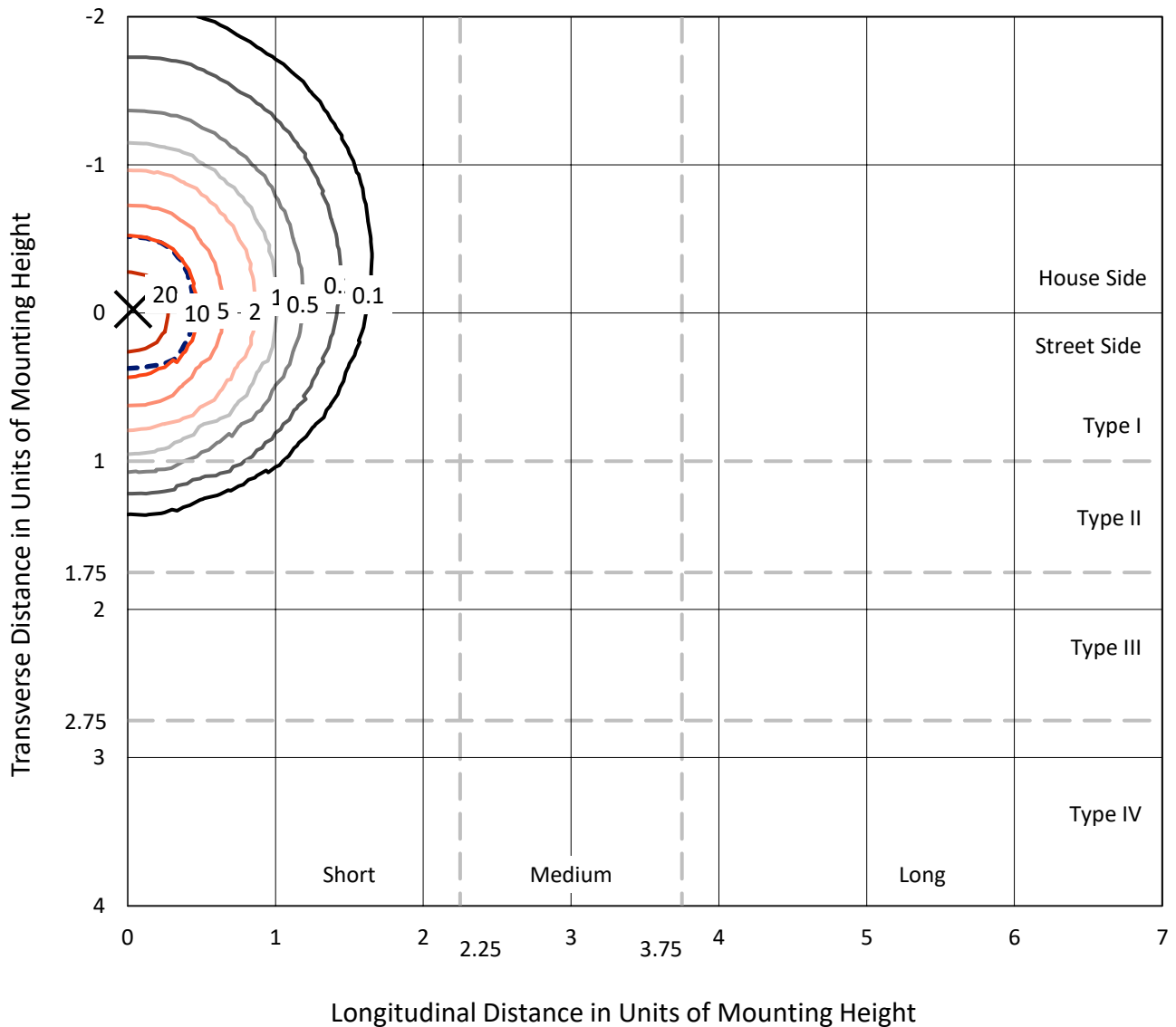
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

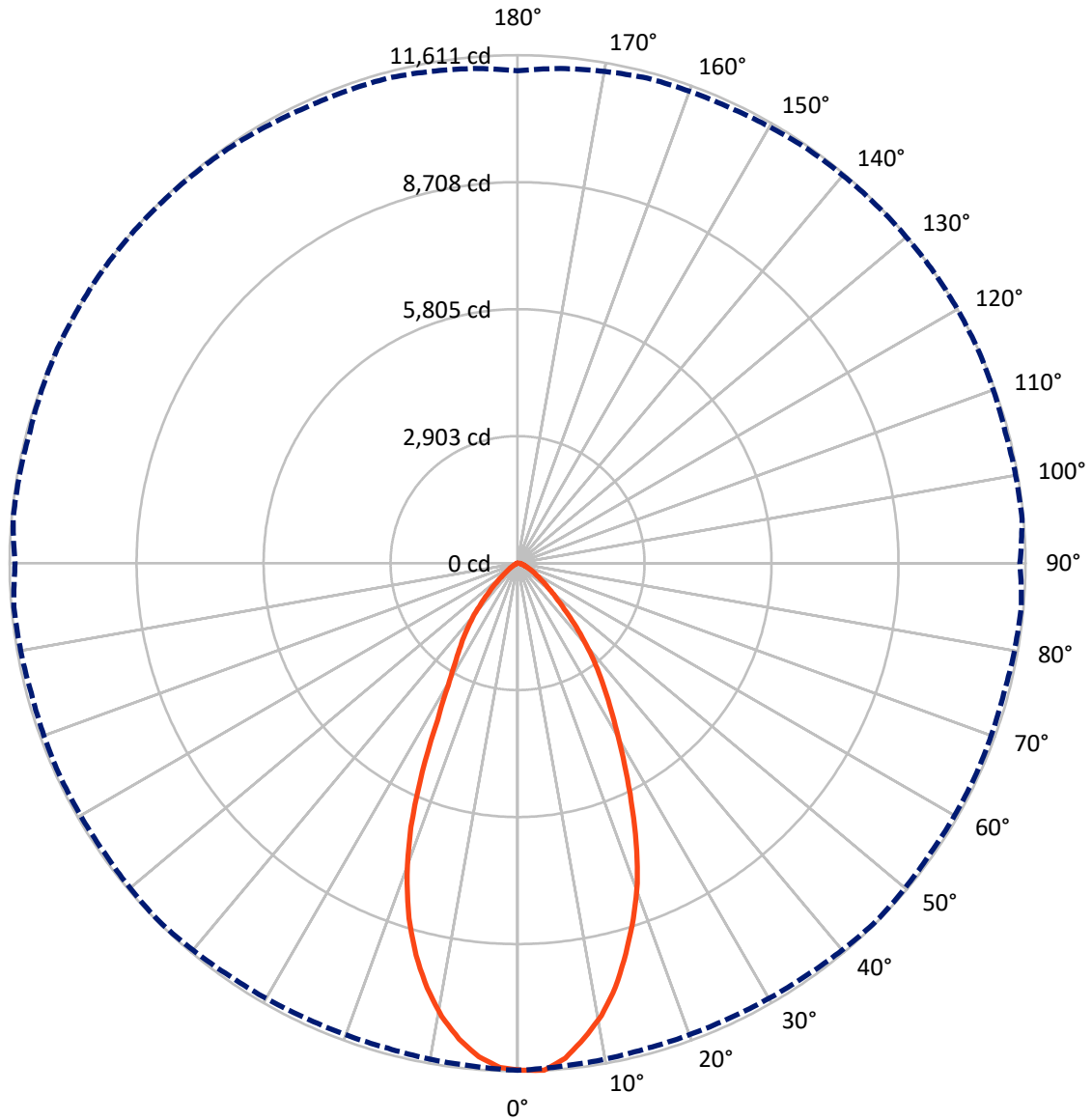
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29 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
<b>House Side</b>	Lumens	5505.4	0.0	5505.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	4196.8	0.0	4196.8
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	9702.2	0.0	9702.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1052.6	10.8
10°-20°	2509.1	25.9
20°-30°	2555.5	26.3
30°-40°	1905.6	19.6
40°-50°	995.5	10.3
50°-60°	418.7	4.3
60°-70°	171.0	1.8
70°-80°	72.0	0.7
80°-90°	22.2	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°	9702.2	100.0
0°-180°	9702.2	100.0



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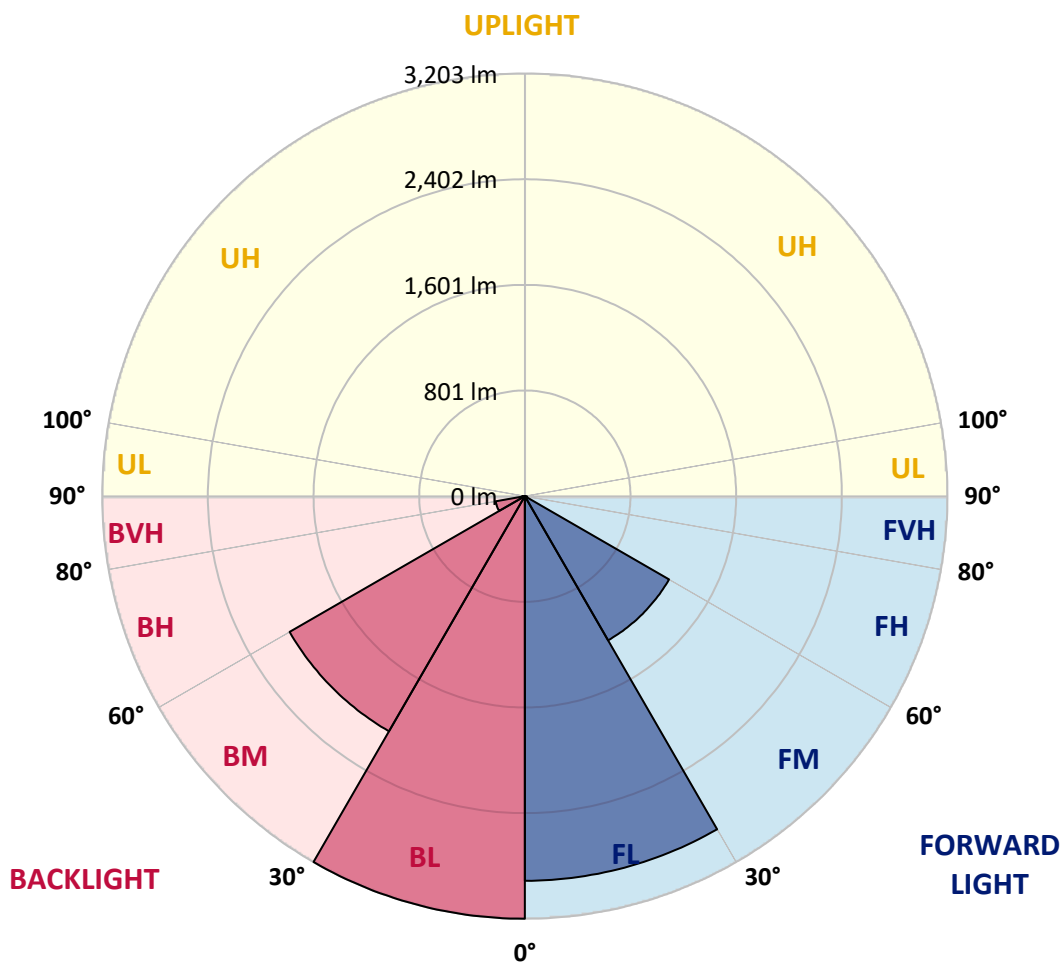
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2914.7	30.0			
FM (30°-60°)	1261.8	13.0			
FH (60°-80°)	18.2	0.2			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	3202.5	33.0	B4/5000		
BM (30°-60°)	2058.1	21.2	B2/2500		
BH (60°-80°)	224.7	2.3	B1/500		G1/500
BVH (80°-90°)	20.1	0.2			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°	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8
2.5°	11593.0	11545.7	11478.4	11472.2	11507.0	11583.1	11534.5	11537.0	11507.0	11558.1
5°	11411.1	11366.2	11320.1	11259.0	11310.1	11342.5	11317.6	11290.2	11251.6	11301.4
7.5°	11067.1	11042.2	10973.6	10946.2	10977.4	11013.5	10959.9	10952.4	10898.9	10963.7
10°	10541.2	10531.2	10463.9	10447.7	10475.1	10530.0	10506.3	10501.3	10467.6	10461.4
12.5°	9995.3	9956.7	9873.2	9868.2	9909.3	9991.6	9928.0	9866.9	9885.6	9901.8
15°	8589.5	8548.3	8755.2	9080.5	9251.3	9245.0	9263.7	9190.2	9167.8	9175.2
17.5°	6828.5	6758.7	6833.4	7336.9	8148.3	8619.4	8489.8	8331.5	8246.7	8190.7
20°	5893.7	5897.5	5883.8	6013.4	6519.4	7593.7	7562.5	7257.2	7146.3	7100.1
22.5°	5325.4	5304.2	5274.3	5315.5	5451.3	6081.9	6504.4	6224.0	6185.4	6134.3
25°	4768.3	4768.3	4732.2	4773.3	4811.9	4820.7	5244.4	5359.1	5284.3	5284.3
27.5°	4286.0	4261.1	4244.9	4263.6	4212.5	3967.0	4020.6	4607.6	4556.5	4525.3
30°	3807.4	3800.0	3772.5	3797.5	3608.0	3331.3	3219.2	3888.4	3942.0	3930.8
32.5°	3143.2	3173.1	3295.2	3333.8	3009.8	2786.7	2679.5	3227.9	3442.3	3433.5
35°	2136.2	2161.1	2300.7	2761.8	2495.1	2335.6	2304.4	2567.4	2920.1	2953.7
37.5°	1701.2	1697.5	1737.3	1819.6	2005.3	1966.7	1957.9	2026.5	2381.7	2396.6
40°	1402.1	1397.1	1395.9	1328.6	1282.4	1635.1	1611.5	1570.3	1878.2	1908.1
42.5°	1130.4	1135.4	1139.1	992.1	924.8	1261.3	1247.5	1205.2	1473.1	1508.0
45°	887.4	886.1	893.6	739.1	720.4	806.4	932.2	898.6	1111.7	1149.1
47.5°	459.9	476.1	577.0	572.0	580.8	572.0	705.4	696.7	836.3	896.1
50°	309.1	314.1	322.8	324.0	457.4	421.2	478.6	542.1	585.8	678.0
52.5°	239.3	243.0	220.6	206.9	280.4	311.6	314.1	375.1	408.8	502.3
55°	133.4	149.6	160.8	162.0	154.5	230.6	229.3	277.9	304.1	366.4
57.5°	17.4	21.2	32.4	104.7	103.4	128.4	160.8	201.9	216.9	268.0
60°	1.2	2.5	3.7	16.2	68.5	74.8	109.7	125.9	150.8	188.2
62.5°	0.0	0.0	1.2	3.7	13.7	43.6	57.3	66.1	88.5	123.4
65°	0.0	0.0	1.2	2.5	5.0	16.2	22.4	36.1	52.3	76.0
67.5°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	16.2	27.4	46.1
70°	0.0	0.0	1.2	2.5	3.7	5.0	7.5	10.0	15.0	24.9
72.5°	0.0	0.0	1.2	1.2	2.5	6.2	6.2	7.5	10.0	13.7
75°	0.0	0.0	1.2	2.5	3.7	6.2	6.2	6.2	7.5	8.7
77.5°	0.0	0.0	1.2	2.5	3.7	6.2	5.0	6.2	6.2	6.2
80°	0.0	0.0	1.2	2.5	3.7	6.2	7.5	6.2	5.0	5.0
82.5°	0.0	0.0	1.2	3.7	3.7	8.7	8.7	8.7	3.7	3.7
85°	0.0	0.0	2.5	3.7	6.2	10.0	10.0	7.5	3.7	2.5
87.5°	0.0	0.0	1.2	2.5	2.5	5.0	7.5	6.2	2.5	1.2
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°
11591.8	0°	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8	11591.8
11483.4	2.5°	11575.6	11544.4	11603.0	11610.5	11585.6	11554.4	11482.1	11475.9	11350.0
11229.1	5°	11356.2	11305.1	11342.5	11367.5	11358.7	11325.1	11295.2	11267.8	11154.3
10816.6	7.5°	10947.5	10928.8	10946.2	10964.9	11001.1	10964.9	10952.4	10923.8	10811.6
10410.3	10°	10493.8	10458.9	10525.0	10516.2	10506.3	10496.3	10444.0	10448.9	10316.8
9857.0	12.5°	9936.7	9878.1	9941.7	9949.2	9941.7	9906.8	9848.2	9873.2	9752.3
9109.2	15°	9187.7	9181.5	9227.6	9257.5	9278.7	9241.3	9221.3	9233.8	9161.5
8147.0	17.5°	8267.9	8348.9	8499.7	8550.8	8552.1	8590.7	8579.5	8564.5	8511.0
7081.5	20°	7186.1	7341.9	7573.7	7811.8	7880.3	7847.9	7833.0	7860.4	7780.6
6080.7	22.5°	6187.9	6321.2	6590.4	6938.1	7138.8	7158.7	7155.0	7131.3	7100.1
5279.3	25°	5340.4	5458.8	5716.8	6034.6	6419.7	6477.0	6479.5	6472.0	6444.6
4552.7	27.5°	4625.0	4768.3	4910.4	5194.6	5604.6	5841.4	5811.5	5802.8	5792.8
3939.5	30°	3976.9	4157.6	4291.0	4468.0	4835.6	5155.9	5187.1	5172.1	5148.4
3432.3	32.5°	3463.5	3570.6	3740.1	3859.8	4124.0	4486.7	4606.3	4595.1	4573.9
2974.9	35°	3017.3	3059.7	3193.0	3326.4	3502.1	3853.5	4030.5	4005.6	4001.9
2424.0	37.5°	2485.1	2627.2	2700.7	2835.3	2958.7	3231.6	3475.9	3464.7	3465.9
1949.2	40°	2006.5	2088.8	2234.6	2348.0	2461.4	2660.8	2932.5	2940.0	2937.5
1509.3	42.5°	1540.4	1620.2	1773.5	1896.9	1997.8	2121.2	2380.4	2389.1	2400.4
1175.3	45°	1202.7	1253.8	1365.9	1494.3	1601.5	1676.3	1873.2	1929.3	1930.5
911.0	47.5°	933.5	992.1	1071.8	1195.2	1299.9	1353.5	1496.8	1572.8	1569.1
699.2	50°	732.8	786.4	851.2	948.4	1061.8	1104.2	1210.2	1284.9	1281.2
527.2	52.5°	560.8	629.4	686.7	761.5	872.4	908.5	984.6	1070.6	1058.1
386.4	55°	425.0	494.8	548.4	610.7	711.6	757.7	810.1	878.6	881.1
299.1	57.5°	320.3	392.6	441.2	504.7	580.8	631.9	671.8	745.3	744.0
204.4	60°	229.3	291.6	350.2	416.3	474.8	533.4	560.8	630.6	633.1
144.6	62.5°	165.8	224.3	280.4	337.7	390.1	447.4	472.3	527.2	534.7
94.7	65°	115.9	157.0	221.8	265.5	324.0	366.4	398.8	446.2	454.9
56.1	67.5°	74.8	113.4	175.7	214.4	268.0	304.1	337.7	375.1	386.4
36.1	70°	44.9	86.0	130.9	172.0	220.6	253.0	285.4	317.8	324.0
17.4	72.5°	28.7	59.8	94.7	139.6	177.0	211.9	240.5	264.2	245.5
11.2	75°	16.2	41.1	74.8	109.7	143.3	177.0	200.7	213.1	170.7
7.5	77.5°	10.0	29.9	61.1	88.5	110.9	142.1	157.0	164.5	122.1
5.0	80°	6.2	22.4	51.1	72.3	72.3	104.7	122.1	128.4	88.5
3.7	82.5°	5.0	16.2	39.9	54.8	48.6	78.5	96.0	97.2	62.3
2.5	85°	3.7	12.5	24.9	36.1	33.6	54.8	56.1	62.3	41.1
2.5	87.5°	2.5	7.5	15.0	21.2	18.7	26.2	29.9	33.6	22.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
11591.8
<i>11251.6</i>
11063.4
10787.9
10272.0
9717.4
9074.3
8431.2
7723.3
7040.3
6352.4
5734.2
5118.5
4517.8
3960.7
3426.1
2893.9
2363.0
1898.1
1555.4
1281.2
1059.4
881.1
741.5
626.9
532.2
452.4
385.1
319.1
228.1
162.0
114.7
82.3
57.3
37.4
19.9
0.0

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