

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: P636732

Luminaire Tested: **IFLD-L-SA7E-927-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636732  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-927-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27490.2 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

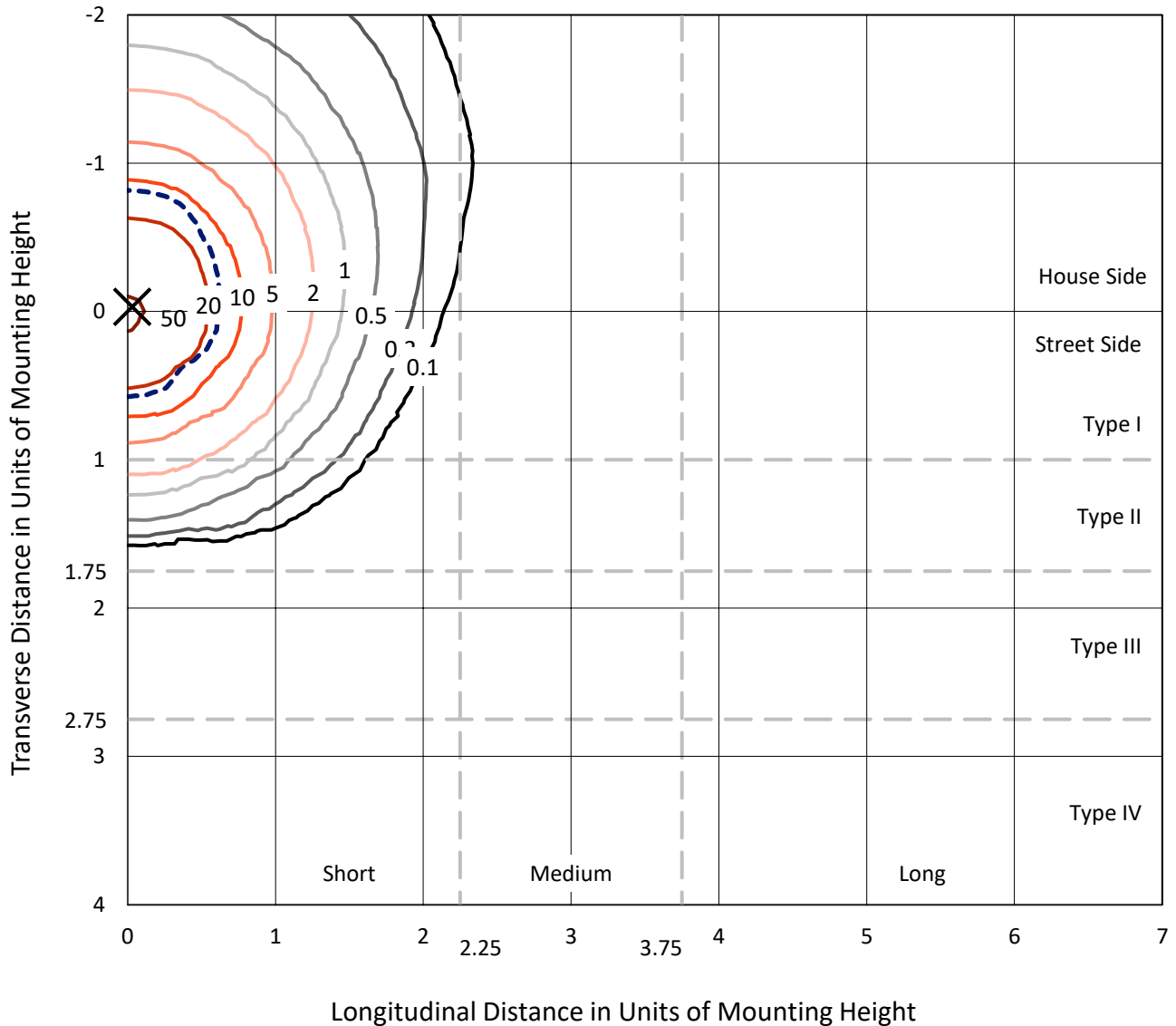
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

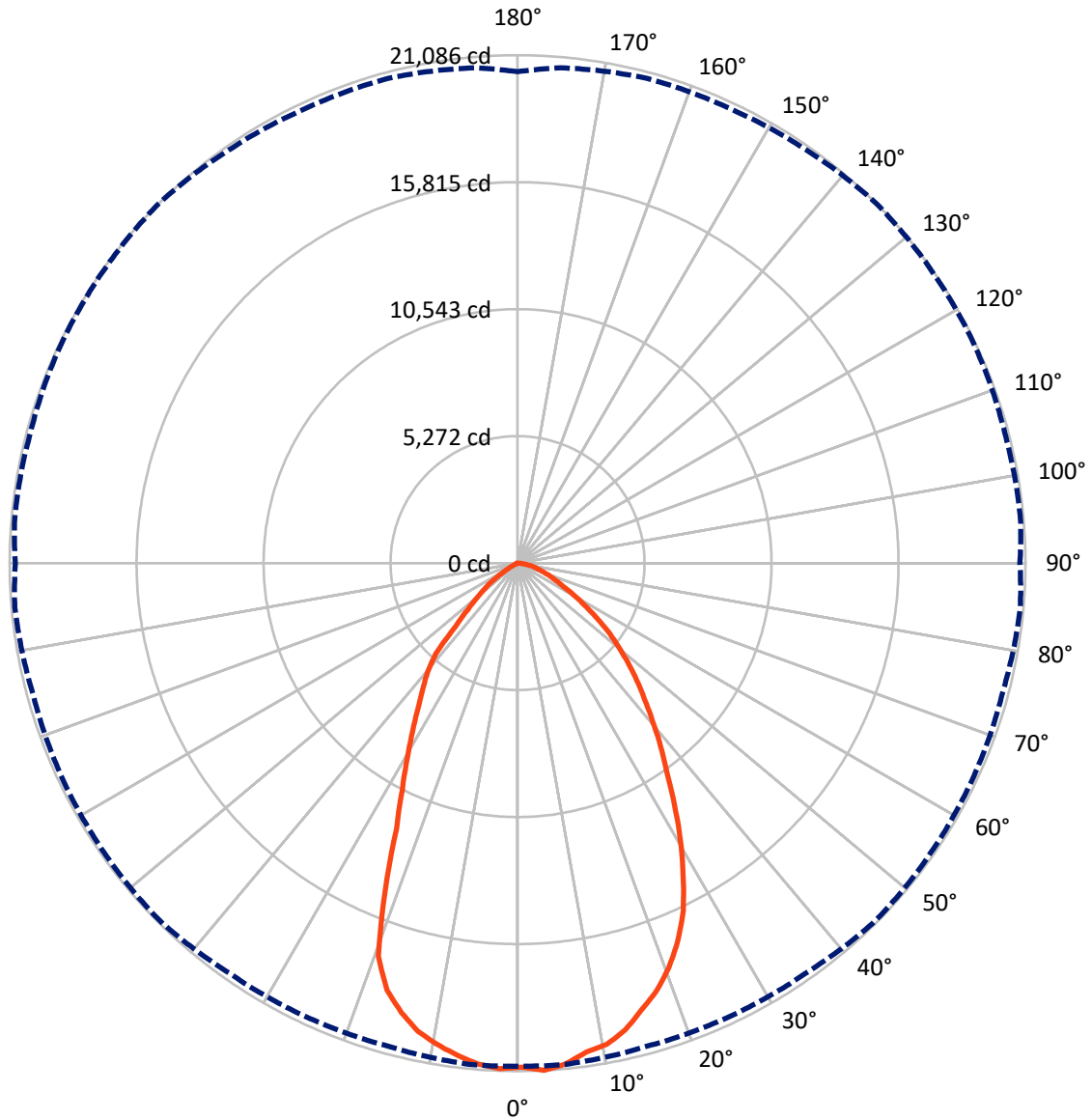
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.3 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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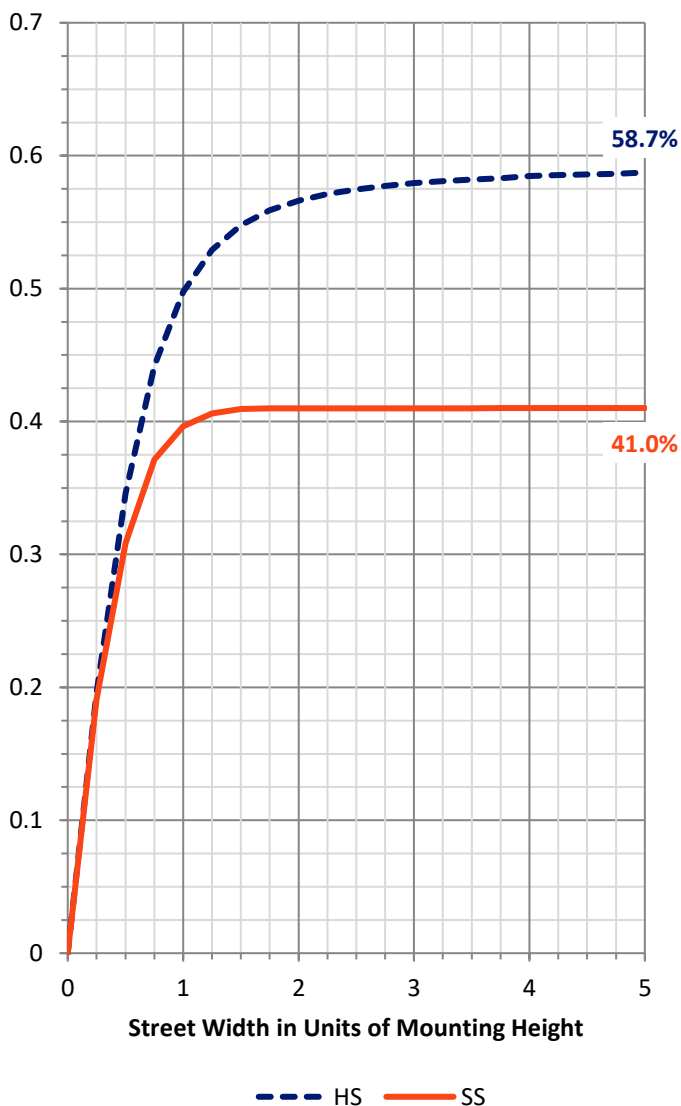
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16281.1	0.0	16281.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11209.1	0.0	11209.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	27490.2	0.0	27490.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1962.0	7.1
10°-20°	5261.1	19.1
20°-30°	6416.2	23.3
30°-40°	5857.9	21.3
40°-50°	4233.4	15.4
50°-60°	2311.5	8.4
60°-70°	955.7	3.5
70°-80°	387.1	1.4
80°-90°	105.3	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°	27490.2	100.0
0°-180°	27490.2	100.0



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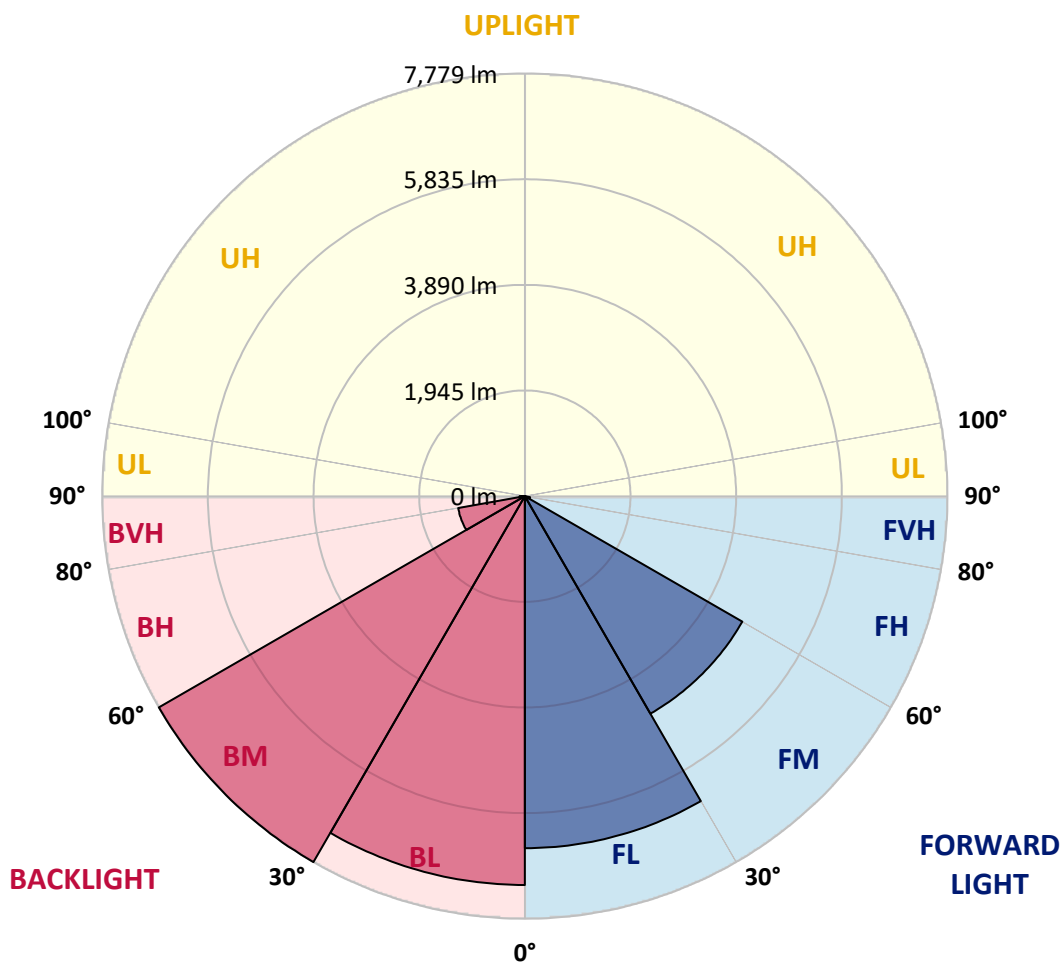
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6480.5	23.6			
FM (30°-60°)	4623.3	16.8			
FH (60°-80°)	96.9	0.4			G0/660
FVH (80°-90°)	8.4	0.0			G0/10
BL (0°-30°)	7158.8	26.0	B5		
BM (30°-60°)	7779.5	28.3	B4/8500		
BH (60°-80°)	1245.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	96.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9
2.5°	20881.2	20908.3	20761.2	20776.7	20803.8	21001.2	20950.9	20904.5	20838.7	20950.9
5°	20854.1	20869.6	20714.8	20660.6	20683.8	20861.9	20699.3	20699.3	20683.8	20664.4
7.5°	20645.1	20652.8	20532.8	20436.0	20498.0	20579.3	20459.3	20517.3	20432.2	20498.0
10°	20331.5	20281.2	20138.0	20110.9	20180.6	20258.0	20176.7	20230.9	20153.5	20203.8
12.5°	19870.9	19793.4	19677.3	19642.5	19762.5	19867.0	19801.2	19770.2	19669.6	19793.4
15°	18094.0	18035.9	18299.1	18759.8	19174.0	19263.1	19193.4	19224.4	19015.3	19050.2
17.5°	14892.5	14784.1	15066.7	16158.4	17714.6	18535.3	18473.4	18272.1	17962.4	18032.0
20°	13533.7	13502.7	13471.8	13731.1	14818.9	17308.1	17393.3	16882.3	16441.0	16344.2
22.5°	12767.2	12755.6	12724.6	12782.7	13069.2	14668.0	15643.5	15171.2	14877.0	14849.9
25°	12066.5	12047.2	11954.3	12027.8	12027.8	12120.7	13371.1	13657.6	13398.2	13367.2
27.5°	11354.2	11319.4	11303.9	11338.7	11160.7	10533.5	10851.0	12248.5	12113.0	12120.7
30°	10583.9	10572.2	10529.7	10603.2	10053.5	9275.4	9074.1	10971.0	10998.1	10990.3
32.5°	9438.0	9488.3	9681.9	9763.2	8857.3	8214.7	7877.9	9492.2	10045.8	10034.1
35°	6855.9	6855.9	7486.9	8659.9	7761.8	7277.9	7095.9	8048.2	9105.1	9143.8
37.5°	5636.5	5655.8	5779.7	6313.9	6697.2	6526.8	6472.6	6774.6	7897.2	7959.2
40°	5071.3	5071.3	5071.3	4850.6	4839.0	5880.3	5849.4	5752.6	6821.0	6956.5
42.5°	4556.4	4568.0	4575.8	4018.3	3708.6	5082.9	5013.2	4866.1	5857.1	6015.8
45°	4026.0	4045.4	4068.6	3360.2	3224.7	3658.3	4242.8	4080.2	4904.8	5110.0
47.5°	2458.2	2489.2	3015.7	2849.2	2864.7	2822.1	3460.9	3433.8	4022.2	4312.5
50°	1660.7	1672.4	1722.7	1807.8	2458.2	2218.2	2450.5	2841.5	3054.4	3495.7
52.5°	1393.6	1413.0	1289.1	1173.0	1614.3	1734.3	1711.1	2109.8	2195.0	2740.8
55°	979.4	1041.4	983.3	971.7	917.5	1347.2	1296.9	1622.0	1676.2	2082.7
57.5°	100.7	116.1	201.3	723.9	600.0	762.6	925.2	1188.5	1242.7	1536.9
60°	7.7	7.7	19.4	100.7	437.4	456.8	638.7	731.7	836.2	1072.3
62.5°	0.0	3.9	7.7	15.5	69.7	243.9	321.3	383.2	503.3	692.9
65°	0.0	0.0	3.9	11.6	15.5	92.9	123.9	201.3	274.9	429.7
67.5°	0.0	0.0	3.9	7.7	11.6	23.2	42.6	73.6	147.1	243.9
70°	0.0	0.0	3.9	7.7	11.6	19.4	31.0	46.5	65.8	131.6
72.5°	0.0	0.0	3.9	3.9	7.7	19.4	23.2	31.0	46.5	65.8
75°	0.0	0.0	3.9	3.9	11.6	23.2	19.4	23.2	31.0	42.6
77.5°	0.0	0.0	3.9	7.7	11.6	23.2	19.4	23.2	23.2	27.1
80°	0.0	0.0	3.9	7.7	15.5	27.1	23.2	23.2	19.4	19.4
82.5°	0.0	0.0	3.9	11.6	15.5	34.8	34.8	31.0	15.5	11.6
85°	0.0	0.0	7.7	15.5	23.2	38.7	38.7	31.0	11.6	7.7
87.5°	0.0	0.0	7.7	11.6	19.4	27.1	38.7	31.0	11.6	3.9
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°
20919.9	0°	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9	20919.9
20854.1	2.5°	20958.7	20935.4	21012.9	21043.8	21086.4	20923.8	20823.2	20827.0	20641.2
20618.0	5°	20741.9	20745.7	20846.4	20838.7	20881.2	20792.2	20753.5	20687.7	20525.1
20319.9	7.5°	20467.0	20432.2	20529.0	20602.5	20494.1	20556.1	20467.0	20498.0	20401.2
20056.7	10°	20254.1	20172.8	20261.8	20312.2	20316.0	20254.1	20168.9	20087.6	20052.8
19646.3	12.5°	19781.8	19677.3	19828.3	19898.0	19886.3	19766.3	19669.6	19688.9	19576.6
18926.3	15°	19131.5	19135.3	19243.7	19309.5	19247.6	19220.5	19228.2	19181.8	19085.0
17931.4	17.5°	18136.6	18194.6	18481.1	18639.8	18674.7	18620.5	18593.4	18539.2	18442.4
16344.2	20°	16479.7	16828.1	17339.1	17830.7	17927.5	17912.0	17815.2	17792.0	17737.8
14772.5	22.5°	15024.1	15283.5	15875.8	16642.3	17037.1	17075.9	16959.7	16924.9	16866.8
13367.2	25°	13518.2	13796.9	14331.2	15163.5	15980.3	16146.8	16127.4	16022.9	15960.9
12120.7	27.5°	12248.5	12527.2	13011.1	13762.1	14637.0	15171.2	15221.5	15055.1	15051.2
11009.7	30°	11102.6	11485.8	11853.6	12465.3	13313.0	14114.4	14199.6	14083.4	14095.0
9991.6	32.5°	10204.5	10521.9	10835.5	11245.8	11950.4	12883.3	13216.3	13107.9	13065.3
9143.8	35°	9287.0	9503.8	9825.1	10200.6	10680.6	11605.8	12182.7	12101.4	12058.8
7997.9	37.5°	8241.8	8613.4	8845.7	9267.6	9643.2	10378.7	11191.6	11180.0	11091.0
7022.4	40°	7169.5	7560.4	7912.7	8338.6	8628.9	9213.4	10115.4	10111.6	10123.2
6012.0	42.5°	6197.8	6557.8	6983.6	7448.2	7726.9	8152.7	9120.5	9174.7	9240.5
5179.7	45°	5319.0	5644.2	6039.1	6604.3	6941.1	7184.9	8044.3	8292.1	8288.2
4436.4	47.5°	4529.3	4835.1	5168.0	5717.8	6147.5	6368.1	7080.4	7432.7	7409.5
3638.9	50°	3801.5	4072.5	4420.9	4819.6	5396.4	5590.0	6120.4	6584.9	6550.1
2899.5	52.5°	3058.2	3433.8	3728.0	4091.9	4699.6	4889.3	5299.7	5752.6	5725.5
2175.6	55°	2384.7	2748.5	3104.7	3418.3	3929.3	4211.9	4506.1	4970.6	4962.9
1703.3	57.5°	1804.0	2202.7	2539.5	2837.6	3244.1	3592.5	3828.6	4250.6	4304.8
1165.2	60°	1335.6	1641.4	2005.3	2338.2	2659.5	3019.5	3178.3	3592.5	3615.7
797.5	62.5°	909.7	1246.5	1602.7	1904.6	2144.6	2516.3	2659.5	3000.2	3042.8
511.0	65°	631.0	847.8	1254.3	1471.1	1765.3	2082.7	2225.9	2496.9	2582.1
294.2	67.5°	418.1	603.9	979.4	1176.8	1467.2	1684.0	1865.9	2086.6	2179.5
185.8	70°	228.4	445.2	700.7	929.1	1180.7	1389.8	1567.8	1745.9	1827.2
85.2	72.5°	154.8	298.1	487.8	735.5	952.3	1157.5	1316.2	1447.8	1451.7
50.3	75°	77.4	201.3	371.6	569.1	743.3	944.6	1087.8	1165.2	1072.3
31.0	77.5°	46.5	147.1	302.0	456.8	603.9	762.6	843.9	886.5	735.5
23.2	80°	27.1	104.5	236.1	363.9	418.1	561.3	638.7	650.4	491.6
15.5	82.5°	19.4	77.4	185.8	267.1	255.5	394.9	480.0	464.5	313.6
11.6	85°	11.6	54.2	116.1	166.5	154.8	259.4	278.7	286.5	181.9
7.7	87.5°	7.7	31.0	61.9	89.0	73.6	112.3	112.3	135.5	89.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
20919.9
20401.2
20486.4
20238.6
19898.0
19479.9
18988.2
18399.8
17613.9
16851.3
15895.1
15043.5
14037.0
13069.2
12000.7
11164.5
10123.2
9205.7
8296.0
7417.2
6581.0
5783.6
4982.2
4281.5
3650.5
3050.5
2562.7
2167.9
1796.2
1416.9
1002.6
708.4
460.7
290.3
166.5
77.4
0.0

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