

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: P636769

Luminaire Tested: **IFLD-S-SA2D-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636769  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-935-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 3500K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7987.7 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

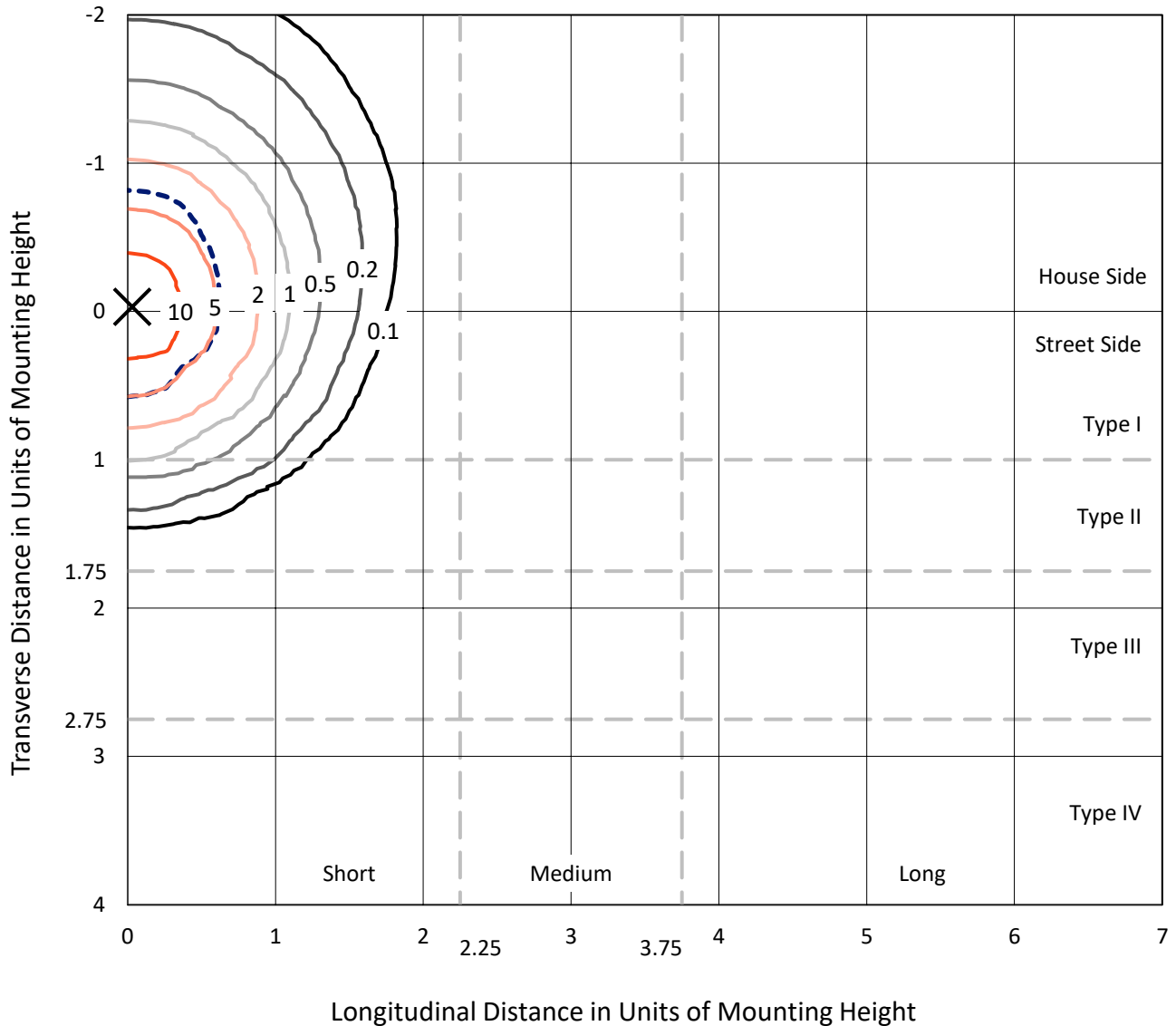
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

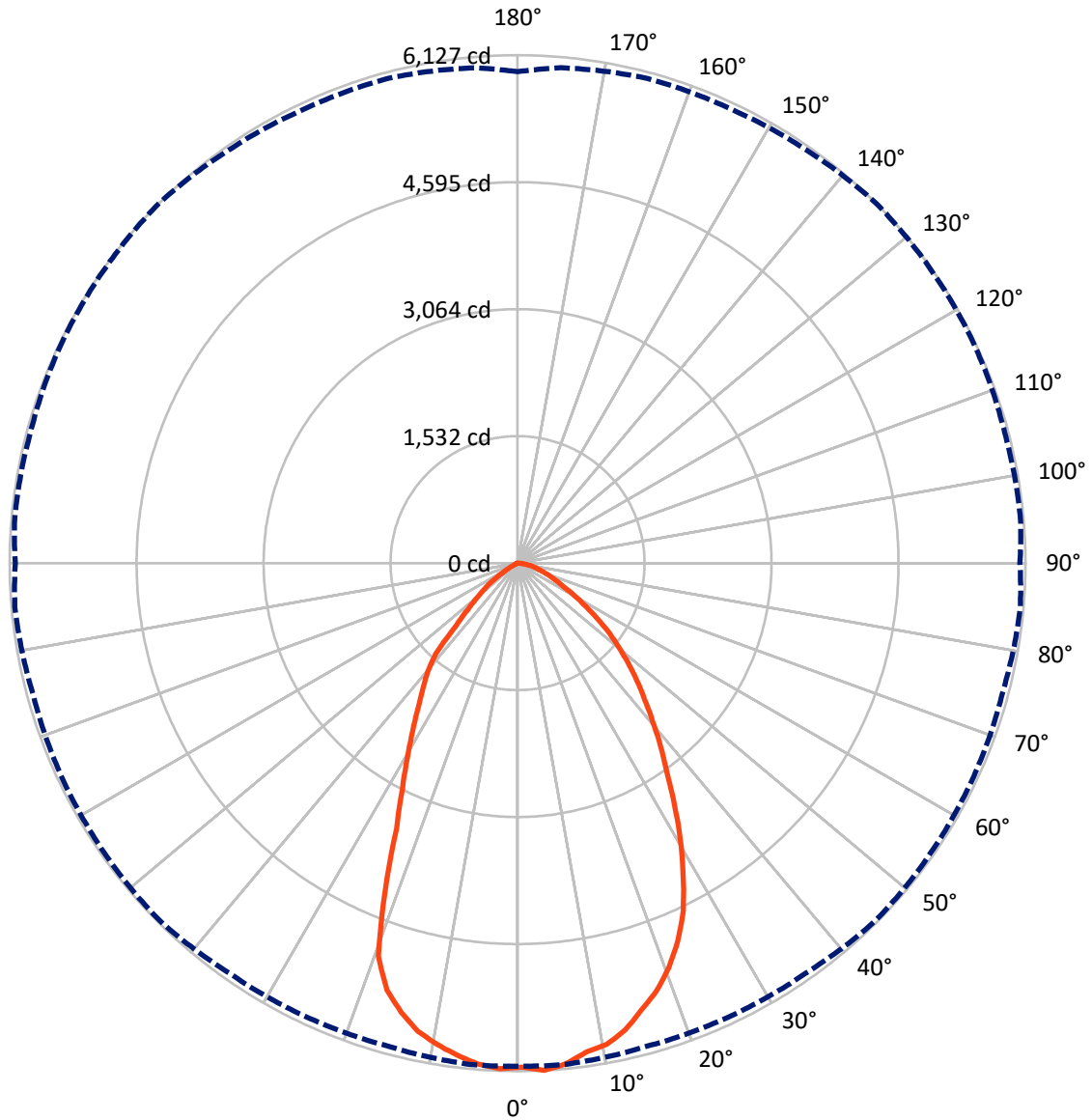
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.2 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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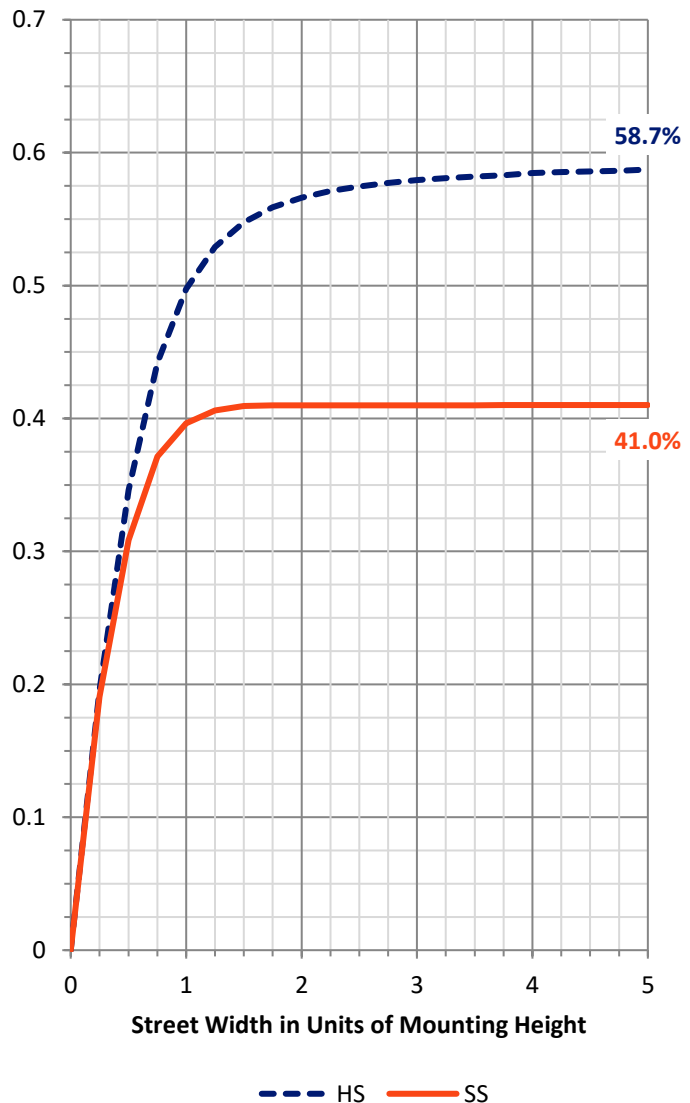
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4730.7	0.0	4730.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3257.0	0.0	3257.0
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	7987.7	0.0	7987.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	570.1	7.1
10°-20°	1528.7	19.1
20°-30°	1864.3	23.3
30°-40°	1702.1	21.3
40°-50°	1230.1	15.4
50°-60°	671.6	8.4
60°-70°	277.7	3.5
70°-80°	112.5	1.4
80°-90°	30.6	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°	7987.7	100.0
0°-180°	7987.7	100.0



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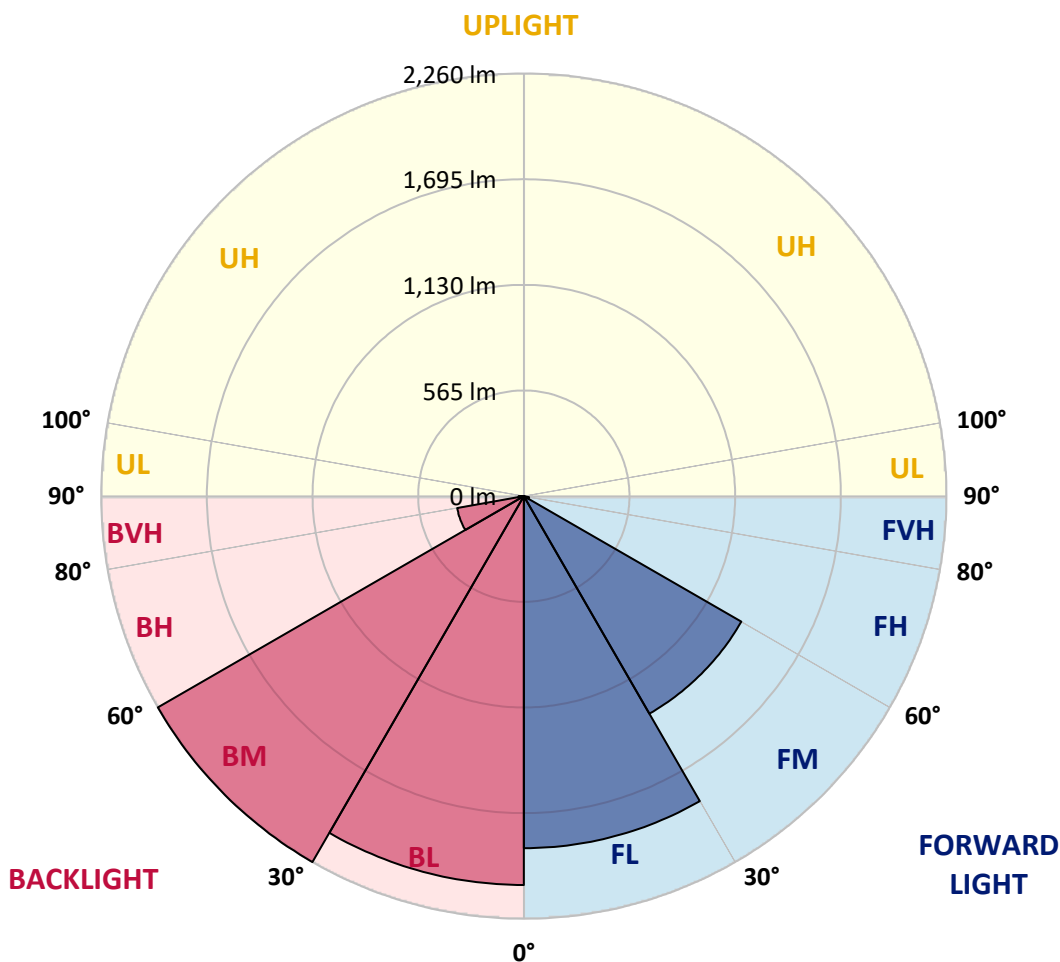
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1883.0	23.6			
FM (30°-60°)	1343.4	16.8			
FH (60°-80°)	28.1	0.4			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	2080.1	26.0	B3/2500		
BM (30°-60°)	2260.5	28.3	B2/2500		
BH (60°-80°)	362.0	4.5	B1/500		G1/500
BVH (80°-90°)	28.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6
2.5°	6067.4	6075.2	6032.5	6037.0	6044.9	6102.2	6087.6	6074.1	6055.0	6087.6
5°	6059.5	6064.0	6019.0	6003.3	6010.0	6061.7	6014.5	6014.5	6010.0	6004.4
7.5°	5998.8	6001.0	5966.1	5938.0	5956.0	5979.6	5944.8	5961.6	5936.9	5956.0
10°	5907.6	5893.0	5851.4	5843.5	5863.8	5886.3	5862.6	5878.4	5855.9	5870.5
12.5°	5773.8	5751.3	5717.5	5707.4	5742.3	5772.7	5753.5	5744.5	5715.3	5751.3
15°	5257.5	5240.6	5317.1	5451.0	5571.3	5597.2	5576.9	5585.9	5525.2	5535.3
17.5°	4327.2	4295.8	4377.9	4695.1	5147.3	5385.7	5367.7	5309.2	5219.2	5239.5
20°	3932.4	3923.4	3914.4	3989.8	4305.9	5029.1	5053.9	4905.4	4777.2	4749.1
22.5°	3709.7	3706.3	3697.3	3714.2	3797.4	4262.0	4545.5	4408.2	4322.7	4314.9
25°	3506.1	3500.5	3473.5	3494.9	3494.9	3521.9	3885.2	3968.4	3893.1	3884.1
27.5°	3299.1	3289.0	3284.5	3294.6	3242.9	3060.7	3152.9	3559.0	3519.6	3521.9
30°	3075.3	3071.9	3059.6	3080.9	2921.2	2695.1	2636.6	3187.8	3195.7	3193.4
32.5°	2742.4	2757.0	2813.2	2836.8	2573.6	2386.9	2289.0	2758.1	2919.0	2915.6
35°	1992.1	1992.1	2175.4	2516.3	2255.3	2114.7	2061.8	2338.5	2645.6	2656.9
37.5°	1637.8	1643.4	1679.4	1834.6	1946.0	1896.5	1880.7	1968.5	2294.7	2312.7
40°	1473.5	1473.5	1473.5	1409.4	1406.0	1708.6	1699.6	1671.5	1982.0	2021.3
42.5°	1323.9	1327.3	1329.6	1167.6	1077.6	1476.9	1456.7	1413.9	1701.9	1748.0
45°	1169.8	1175.5	1182.2	976.4	937.0	1063.0	1232.8	1185.6	1425.2	1484.8
47.5°	714.3	723.3	876.2	827.9	832.4	820.0	1005.6	997.7	1168.7	1253.1
50°	482.6	485.9	500.6	525.3	714.3	644.5	712.0	825.6	887.5	1015.7
52.5°	404.9	410.6	374.6	340.8	469.1	503.9	497.2	613.0	637.8	796.4
55°	284.6	302.6	285.7	282.3	266.6	391.4	376.8	471.3	487.1	605.2
57.5°	29.2	33.7	58.5	210.3	174.3	221.6	268.8	345.3	361.1	446.6
60°	2.2	2.2	5.6	29.2	127.1	132.7	185.6	212.6	243.0	311.6
62.5°	0.0	1.1	2.2	4.5	20.2	70.9	93.4	111.4	146.2	201.3
65°	0.0	0.0	1.1	3.4	4.5	27.0	36.0	58.5	79.9	124.9
67.5°	0.0	0.0	1.1	2.2	3.4	6.7	12.4	21.4	42.7	70.9
70°	0.0	0.0	1.1	2.2	3.4	5.6	9.0	13.5	19.1	38.2
72.5°	0.0	0.0	1.1	1.1	2.2	5.6	6.7	9.0	13.5	19.1
75°	0.0	0.0	1.1	1.1	3.4	6.7	5.6	6.7	9.0	12.4
77.5°	0.0	0.0	1.1	2.2	3.4	6.7	5.6	6.7	6.7	7.9
80°	0.0	0.0	1.1	2.2	4.5	7.9	6.7	6.7	5.6	5.6
82.5°	0.0	0.0	1.1	3.4	4.5	10.1	10.1	9.0	4.5	3.4
85°	0.0	0.0	2.2	4.5	6.7	11.2	11.2	9.0	3.4	2.2
87.5°	0.0	0.0	2.2	3.4	5.6	7.9	11.2	9.0	3.4	1.1
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°
6078.6	0°	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6	6078.6
6059.5	2.5°	6089.9	6083.1	6105.6	6114.6	6127.0	6079.7	6050.5	6051.6	5997.6
5990.9	5°	6026.9	6028.0	6057.2	6055.0	6067.4	6041.5	6030.3	6011.1	5963.9
5904.3	7.5°	5947.0	5936.9	5965.0	5986.4	5954.9	5972.9	5947.0	5956.0	5927.9
5827.8	10°	5885.1	5861.5	5887.4	5902.0	5903.1	5885.1	5860.4	5836.8	5826.7
5708.5	12.5°	5747.9	5717.5	5761.4	5781.7	5778.3	5743.4	5715.3	5720.9	5688.3
5499.3	15°	5558.9	5560.1	5591.6	5610.7	5592.7	5584.8	5587.1	5573.6	5545.4
5210.2	17.5°	5269.9	5286.7	5370.0	5416.1	5426.2	5410.5	5402.6	5386.8	5358.7
4749.1	20°	4788.4	4889.7	5038.1	5181.0	5209.1	5204.6	5176.5	5169.8	5154.0
4292.4	22.5°	4365.5	4440.9	4613.0	4835.7	4950.4	4961.7	4927.9	4917.8	4900.9
3884.1	25°	3927.9	4008.9	4164.1	4406.0	4643.3	4691.7	4686.1	4655.7	4637.7
3521.9	27.5°	3559.0	3640.0	3780.6	3998.8	4253.0	4408.2	4422.9	4374.5	4373.4
3199.0	30°	3226.0	3337.4	3444.3	3622.0	3868.3	4101.2	4125.9	4092.2	4095.5
2903.2	32.5°	2965.1	3057.3	3148.4	3267.7	3472.4	3743.5	3840.2	3808.7	3796.3
2656.9	35°	2698.5	2761.5	2854.8	2963.9	3103.4	3372.3	3539.9	3516.2	3503.9
2323.9	37.5°	2394.8	2502.8	2570.3	2692.9	2802.0	3015.7	3251.9	3248.5	3222.7
2040.5	40°	2083.2	2196.8	2299.2	2422.9	2507.3	2677.1	2939.2	2938.1	2941.4
1746.9	42.5°	1800.9	1905.5	2029.2	2164.2	2245.2	2368.9	2650.1	2665.9	2685.0
1505.0	45°	1545.5	1640.0	1754.7	1919.0	2016.8	2087.7	2337.4	2409.4	2408.3
1289.1	47.5°	1316.1	1404.9	1501.7	1661.4	1786.2	1850.4	2057.3	2159.7	2152.9
1057.3	50°	1104.6	1183.3	1284.6	1400.4	1568.0	1624.3	1778.4	1913.3	1903.2
842.5	52.5°	888.6	997.7	1083.2	1189.0	1365.6	1420.7	1539.9	1671.5	1663.6
632.2	55°	692.9	798.6	902.1	993.2	1141.7	1223.8	1309.3	1444.3	1442.0
494.9	57.5°	524.2	640.0	737.9	824.5	942.6	1043.8	1112.5	1235.1	1250.8
338.6	60°	388.1	476.9	582.7	679.4	772.8	877.4	923.5	1043.8	1050.6
231.7	62.5°	264.3	362.2	465.7	553.4	623.2	731.1	772.8	871.7	884.1
148.5	65°	183.3	246.3	364.4	427.4	512.9	605.2	646.8	725.5	750.3
85.5	67.5°	121.5	175.5	284.6	342.0	426.3	489.3	542.2	606.3	633.3
54.0	70°	66.4	129.4	203.6	270.0	343.1	403.8	455.6	507.3	530.9
24.7	72.5°	45.0	86.6	141.7	213.7	276.7	336.3	382.4	420.7	421.8
14.6	75°	22.5	58.5	108.0	165.4	216.0	274.5	316.1	338.6	311.6
9.0	77.5°	13.5	42.7	87.7	132.7	175.5	221.6	245.2	257.6	213.7
6.7	80°	7.9	30.4	68.6	105.7	121.5	163.1	185.6	189.0	142.9
4.5	82.5°	5.6	22.5	54.0	77.6	74.2	114.7	139.5	135.0	91.1
3.4	85°	3.4	15.7	33.7	48.4	45.0	75.4	81.0	83.2	52.9
2.2	87.5°	2.2	9.0	18.0	25.9	21.4	32.6	32.6	39.4	25.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6078.6
5927.9
5952.6
5880.6
5781.7
5660.2
5517.3
5346.3
5118.0
4896.4
4618.6
4371.1
4078.7
3797.4
3487.0
3244.0
2941.4
2674.9
2410.5
2155.2
1912.2
1680.5
1447.7
1244.1
1060.7
886.4
744.6
629.9
521.9
411.7
291.3
205.8
133.9
84.4
48.4
22.5
0.0

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