

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: P638100

Luminaire Tested: **IFLD-S-SA2A-730-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638100  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-730-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6466.4 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

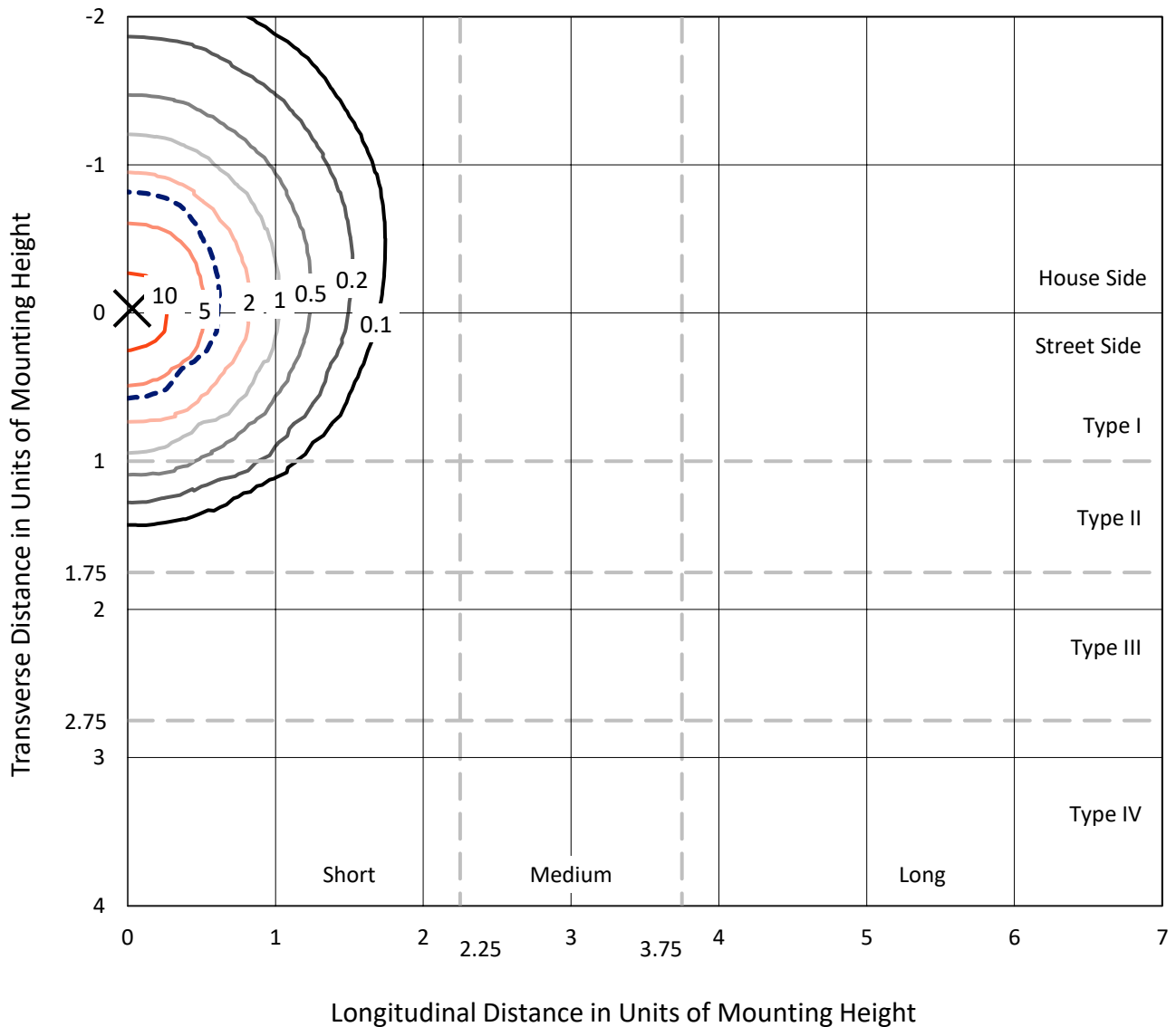
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

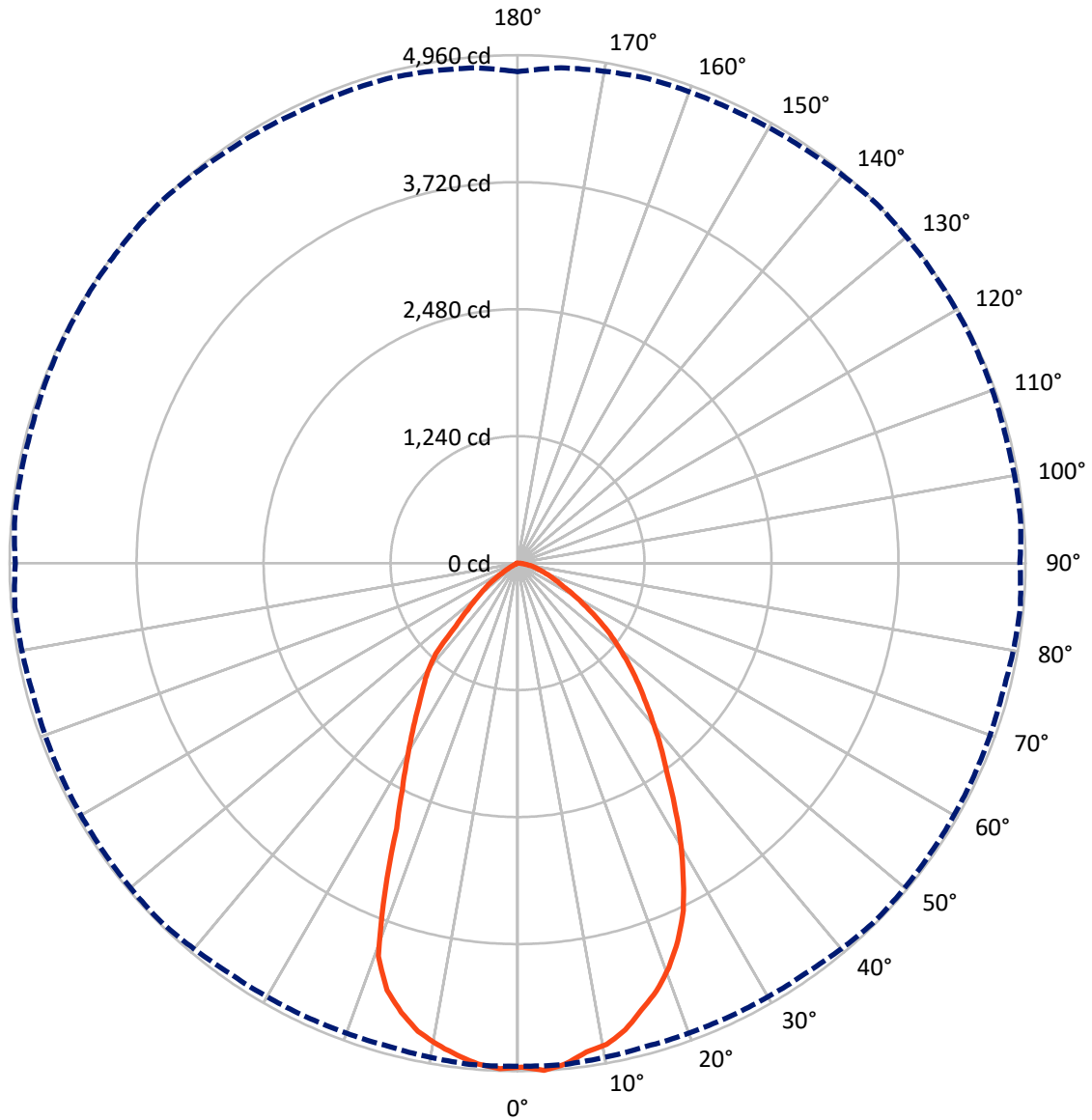
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 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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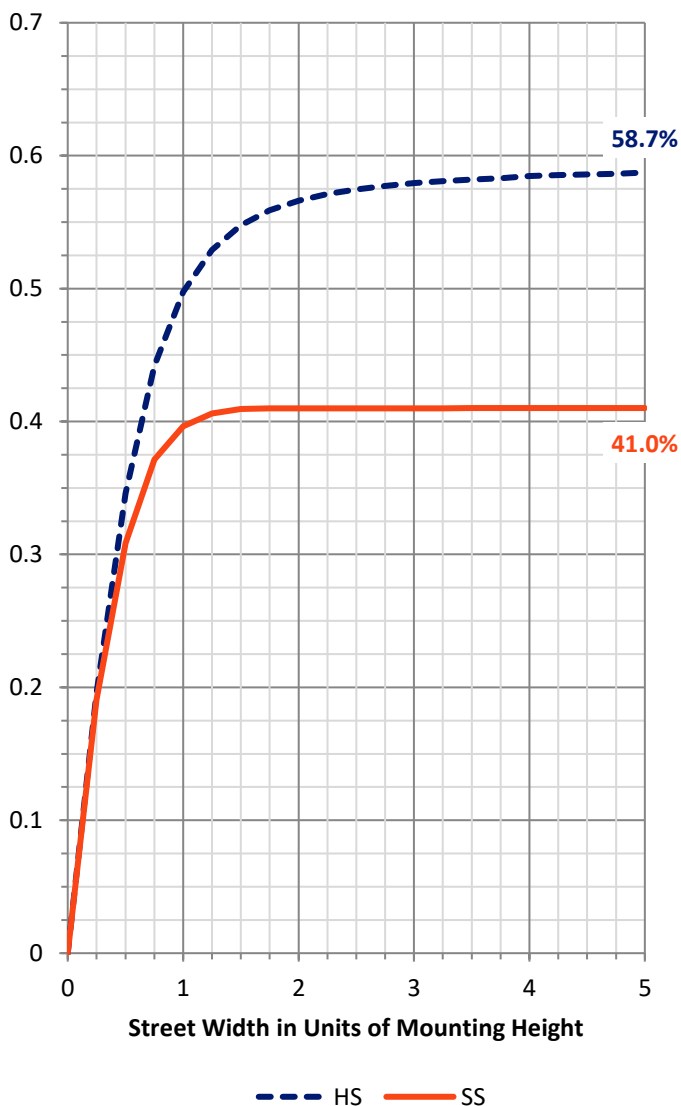
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3829.7	0.0	3829.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	2636.7	0.0	2636.7
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	6466.4	0.0	6466.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	461.5	7.1
10°-20°	1237.6	19.1
20°-30°	1509.3	23.3
30°-40°	1377.9	21.3
40°-50°	995.8	15.4
50°-60°	543.7	8.4
60°-70°	224.8	3.5
70°-80°	91.1	1.4
80°-90°	24.8	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°	6466.4	100.0
0°-180°	6466.4	100.0



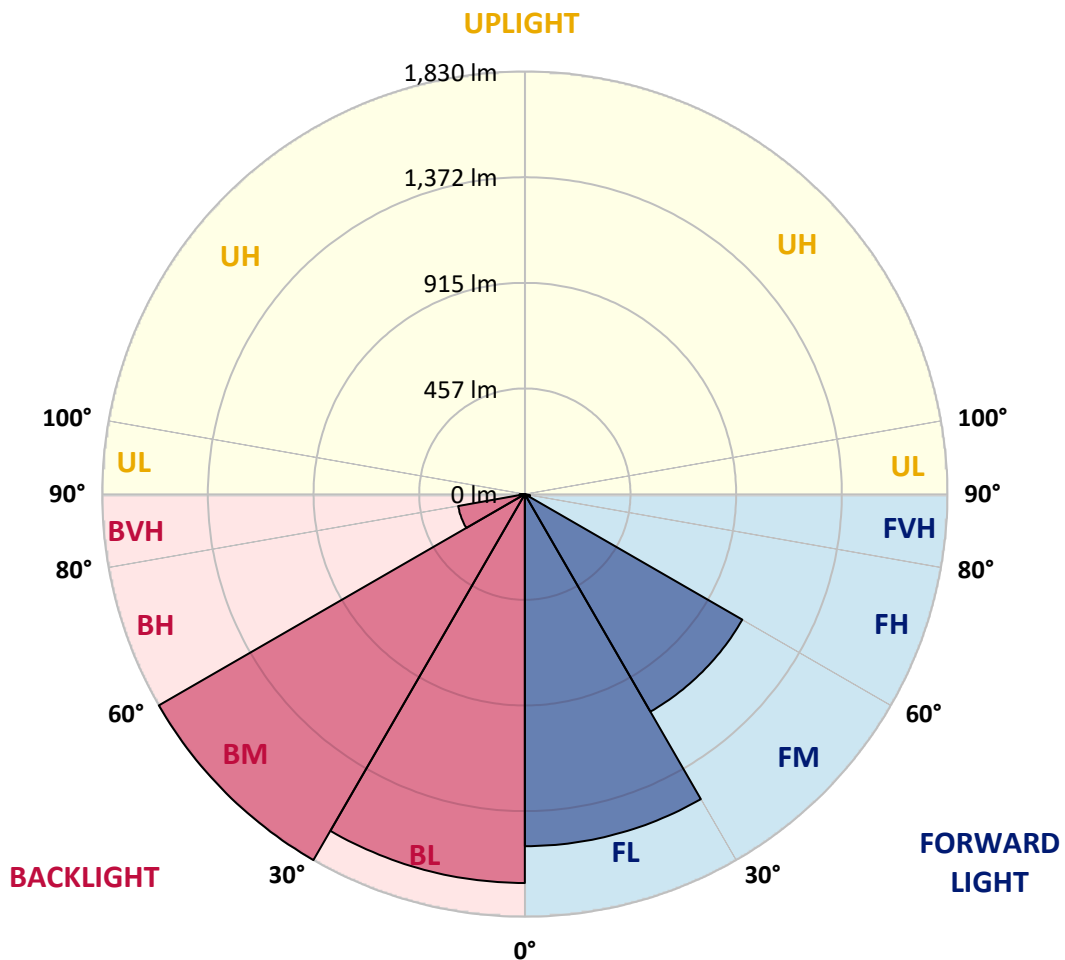
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.4	23.6			
FM (30°-60°)	1087.5	16.8			
FH (60°-80°)	22.8	0.4			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1684.0	26.0	B3/2500		
BM (30°-60°)	1829.9	28.3	B2/2500		
BH (60°-80°)	293.1	4.5	B1/500		G1/500
BVH (80°-90°)	22.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9
2.5°	4911.8	4918.2	4883.6	4887.2	4893.6	4940.1	4928.2	4917.3	4901.8	4928.2
5°	4905.4	4909.1	4872.7	4859.9	4865.4	4907.3	4869.0	4869.0	4865.4	4860.8
7.5°	4856.3	4858.1	4829.9	4807.1	4821.7	4840.8	4812.6	4826.2	4806.2	4821.7
10°	4782.5	4770.7	4737.0	4730.6	4747.0	4765.2	4746.1	4758.8	4740.6	4752.5
12.5°	4674.2	4655.9	4628.6	4620.4	4648.7	4673.2	4657.8	4650.5	4626.8	4655.9
15°	4256.2	4242.5	4304.4	4412.8	4510.2	4531.2	4514.8	4522.1	4472.9	4481.1
17.5°	3503.1	3477.6	3544.1	3800.9	4166.9	4360.0	4345.4	4298.1	4225.2	4241.6
20°	3183.5	3176.2	3168.9	3229.9	3485.8	4071.3	4091.4	3971.2	3867.4	3844.6
22.5°	3003.2	3000.5	2993.2	3006.8	3074.2	3450.3	3679.8	3568.7	3499.5	3493.1
25°	2838.4	2833.8	2812.0	2829.3	2829.3	2851.1	3145.2	3212.6	3151.6	3144.3
27.5°	2670.8	2662.6	2659.0	2667.2	2625.3	2477.8	2552.4	2881.2	2849.3	2851.1
30°	2489.6	2486.9	2476.9	2494.2	2364.9	2181.8	2134.5	2580.7	2587.0	2585.2
32.5°	2220.1	2231.9	2277.4	2296.6	2083.5	1932.3	1853.1	2232.8	2363.0	2360.3
35°	1612.7	1612.7	1761.1	2037.0	1825.8	1711.9	1669.1	1893.2	2141.8	2150.9
37.5°	1325.8	1330.4	1359.5	1485.2	1575.4	1535.3	1522.5	1593.6	1857.6	1872.2
40°	1192.9	1192.9	1192.9	1141.0	1138.3	1383.2	1375.9	1353.2	1604.5	1636.4
42.5°	1071.8	1074.5	1076.3	945.2	872.4	1195.6	1179.2	1144.6	1377.8	1415.1
45°	947.0	951.6	957.0	790.4	758.5	860.5	998.0	959.8	1153.7	1202.0
47.5°	578.2	585.5	709.4	670.2	673.9	663.8	814.1	807.7	946.1	1014.4
50°	390.7	393.4	405.2	425.3	578.2	521.8	576.4	668.4	718.5	822.3
52.5°	327.8	332.4	303.2	275.9	379.7	408.0	402.5	496.3	516.3	644.7
55°	230.4	245.0	231.3	228.6	215.8	316.9	305.1	381.5	394.3	489.9
57.5°	23.7	27.3	47.4	170.3	141.1	179.4	217.6	279.6	292.3	361.5
60°	1.8	1.8	4.6	23.7	102.9	107.5	150.3	172.1	196.7	252.2
62.5°	0.0	0.9	1.8	3.6	16.4	57.4	75.6	90.2	118.4	163.0
65°	0.0	0.0	0.9	2.7	3.6	21.9	29.1	47.4	64.7	101.1
67.5°	0.0	0.0	0.9	1.8	2.7	5.5	10.0	17.3	34.6	57.4
70°	0.0	0.0	0.9	1.8	2.7	4.6	7.3	10.9	15.5	31.0
72.5°	0.0	0.0	0.9	0.9	1.8	4.6	5.5	7.3	10.9	15.5
75°	0.0	0.0	0.9	0.9	2.7	5.5	4.6	5.5	7.3	10.0
77.5°	0.0	0.0	0.9	1.8	2.7	5.5	4.6	5.5	5.5	6.4
80°	0.0	0.0	0.9	1.8	3.6	6.4	5.5	5.5	4.6	4.6
82.5°	0.0	0.0	0.9	2.7	3.6	8.2	8.2	7.3	3.6	2.7
85°	0.0	0.0	1.8	3.6	5.5	9.1	9.1	7.3	2.7	1.8
87.5°	0.0	0.0	1.8	2.7	4.6	6.4	9.1	7.3	2.7	0.9
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°
4920.9	0°	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9	4920.9
4905.4	2.5°	4930.0	4924.6	4942.8	4950.1	4960.1	4921.8	4898.2	4899.1	4855.4
4849.9	5°	4879.0	4880.0	4903.6	4901.8	4911.8	4890.9	4881.8	4866.3	4828.0
4779.8	7.5°	4814.4	4806.2	4829.0	4846.3	4820.8	4835.3	4814.4	4821.7	4798.9
4717.9	10°	4764.3	4745.2	4766.1	4778.0	4778.9	4764.3	4744.3	4725.1	4717.0
4621.3	12.5°	4653.2	4628.6	4664.1	4680.5	4677.8	4649.6	4626.8	4631.4	4604.9
4452.0	15°	4500.2	4501.1	4526.6	4542.1	4527.5	4521.2	4523.0	4512.1	4489.3
4217.9	17.5°	4266.2	4279.9	4347.2	4384.6	4392.8	4380.0	4373.7	4360.9	4338.1
3844.6	20°	3876.5	3958.4	4078.6	4194.3	4217.0	4213.4	4190.6	4185.2	4172.4
3474.9	22.5°	3534.1	3595.1	3734.4	3914.7	4007.6	4016.7	3989.4	3981.2	3967.5
3144.3	25°	3179.8	3245.4	3371.1	3566.9	3759.0	3798.1	3793.6	3769.0	3754.4
2851.1	27.5°	2881.2	2946.7	3060.6	3237.2	3443.0	3568.7	3580.5	3541.4	3540.4
2589.8	30°	2611.6	2701.8	2788.3	2932.2	3131.6	3320.1	3340.1	3312.8	3315.5
2350.3	32.5°	2400.4	2475.0	2548.8	2645.3	2811.0	3030.5	3108.8	3083.3	3073.3
2150.9	35°	2184.5	2235.5	2311.1	2399.5	2512.4	2730.0	2865.7	2846.6	2836.5
1881.3	37.5°	1938.7	2026.1	2080.7	2180.0	2268.3	2441.3	2632.6	2629.8	2608.9
1651.8	40°	1686.4	1778.4	1861.3	1961.5	2029.7	2167.2	2379.4	2378.5	2381.2
1414.2	42.5°	1457.9	1542.6	1642.7	1752.0	1817.6	1917.7	2145.4	2158.1	2173.6
1218.4	45°	1251.2	1327.7	1420.5	1553.5	1632.7	1690.1	1892.2	1950.5	1949.6
1043.6	47.5°	1065.4	1137.4	1215.7	1345.0	1446.0	1498.0	1665.5	1748.4	1742.9
856.0	50°	894.2	958.0	1039.9	1133.7	1269.4	1314.9	1439.7	1548.9	1540.7
682.0	52.5°	719.4	807.7	876.9	962.5	1105.5	1150.1	1246.6	1353.2	1346.8
511.8	55°	560.9	646.5	730.3	804.1	924.3	990.7	1059.9	1169.2	1167.4
400.7	57.5°	424.3	518.1	597.4	667.5	763.1	845.0	900.6	999.8	1012.6
274.1	60°	314.2	386.1	471.7	550.0	625.6	710.3	747.6	845.0	850.5
187.6	62.5°	214.0	293.2	377.0	448.0	504.5	591.9	625.6	705.7	715.7
120.2	65°	148.4	199.4	295.0	346.0	415.2	489.9	523.6	587.3	607.4
69.2	67.5°	98.3	142.1	230.4	276.8	345.1	396.1	438.9	490.8	512.7
43.7	70°	53.7	104.7	164.8	218.5	277.7	326.9	368.8	410.7	429.8
20.0	72.5°	36.4	70.1	114.7	173.0	224.0	272.3	309.6	340.6	341.5
11.8	75°	18.2	47.4	87.4	133.9	174.8	222.2	255.9	274.1	252.2
7.3	77.5°	10.9	34.6	71.0	107.5	142.1	179.4	198.5	208.5	173.0
5.5	80°	6.4	24.6	55.5	85.6	98.3	132.0	150.3	153.0	115.6
3.6	82.5°	4.6	18.2	43.7	62.8	60.1	92.9	112.9	109.3	73.8
2.7	85°	2.7	12.7	27.3	39.2	36.4	61.0	65.6	67.4	42.8
1.8	87.5°	1.8	7.3	14.6	20.9	17.3	26.4	26.4	31.9	20.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
4920.9
4798.9
4818.9
4760.7
4680.5
4582.2
4466.5
4328.1
4143.3
3963.9
3739.0
3538.6
3301.9
3074.2
2822.9
2626.2
2381.2
2165.4
1951.4
1744.7
1548.0
1360.4
1172.0
1007.1
858.7
717.6
602.8
509.9
422.5
333.3
235.8
166.6
108.4
68.3
39.2
18.2
0.0

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