

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: P638160

Luminaire Tested: **IFLD-S-SA2C-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638160  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10932.7 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

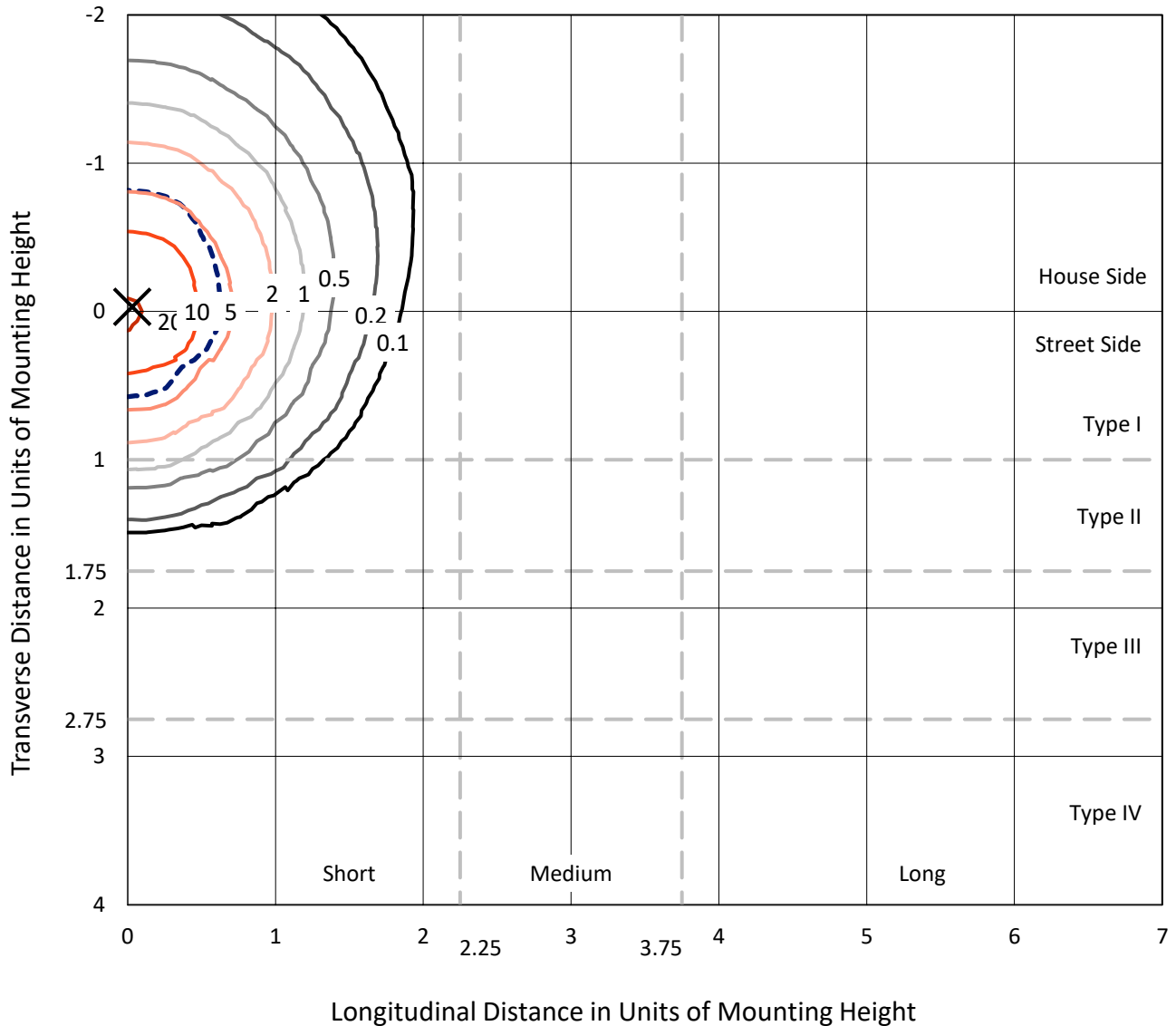
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

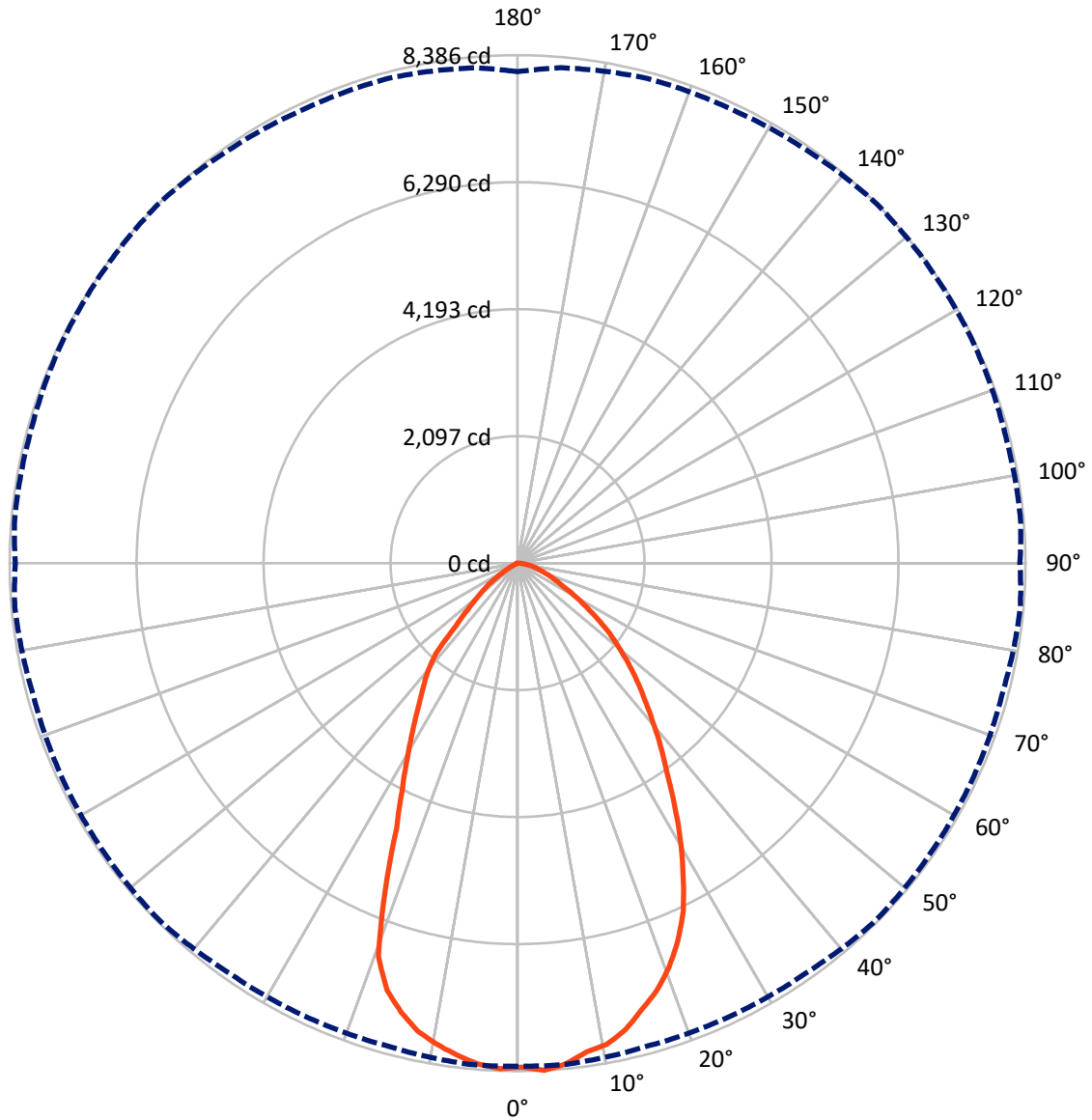
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.8 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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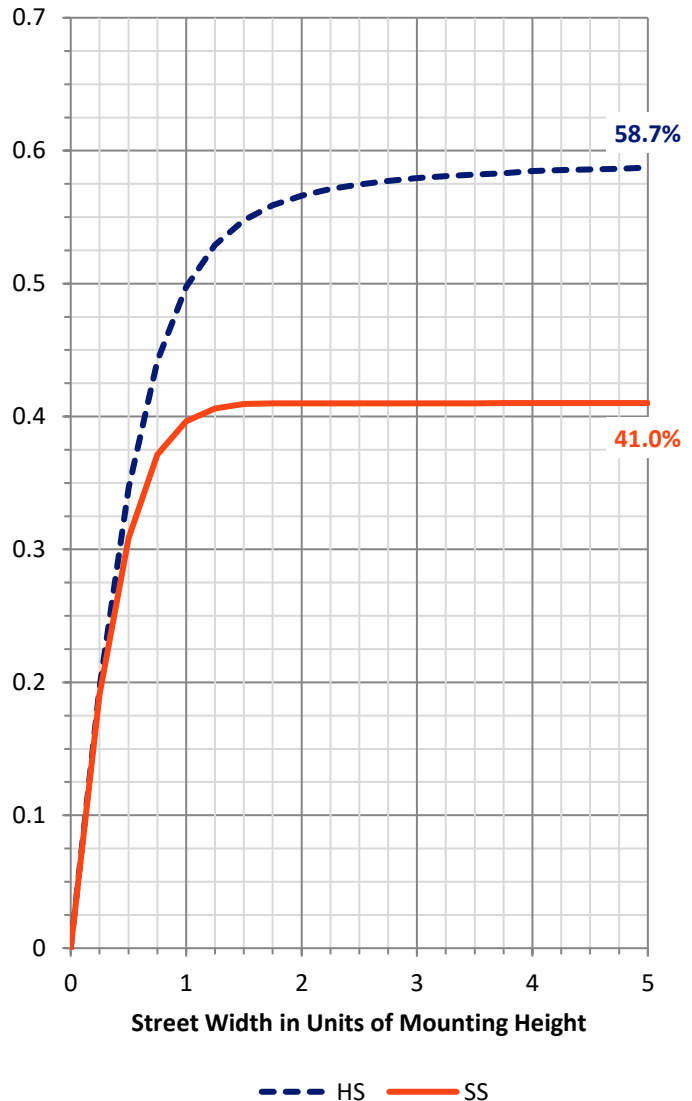
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6474.9	0.0	6474.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	4457.8	0.0	4457.8
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	10932.7	0.0	10932.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	780.3	7.1
10°-20°	2092.3	19.1
20°-30°	2551.7	23.3
30°-40°	2329.7	21.3
40°-50°	1683.6	15.4
50°-60°	919.3	8.4
60°-70°	380.1	3.5
70°-80°	153.9	1.4
80°-90°	41.9	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°	10932.7	100.0
0°-180°	10932.7	100.0



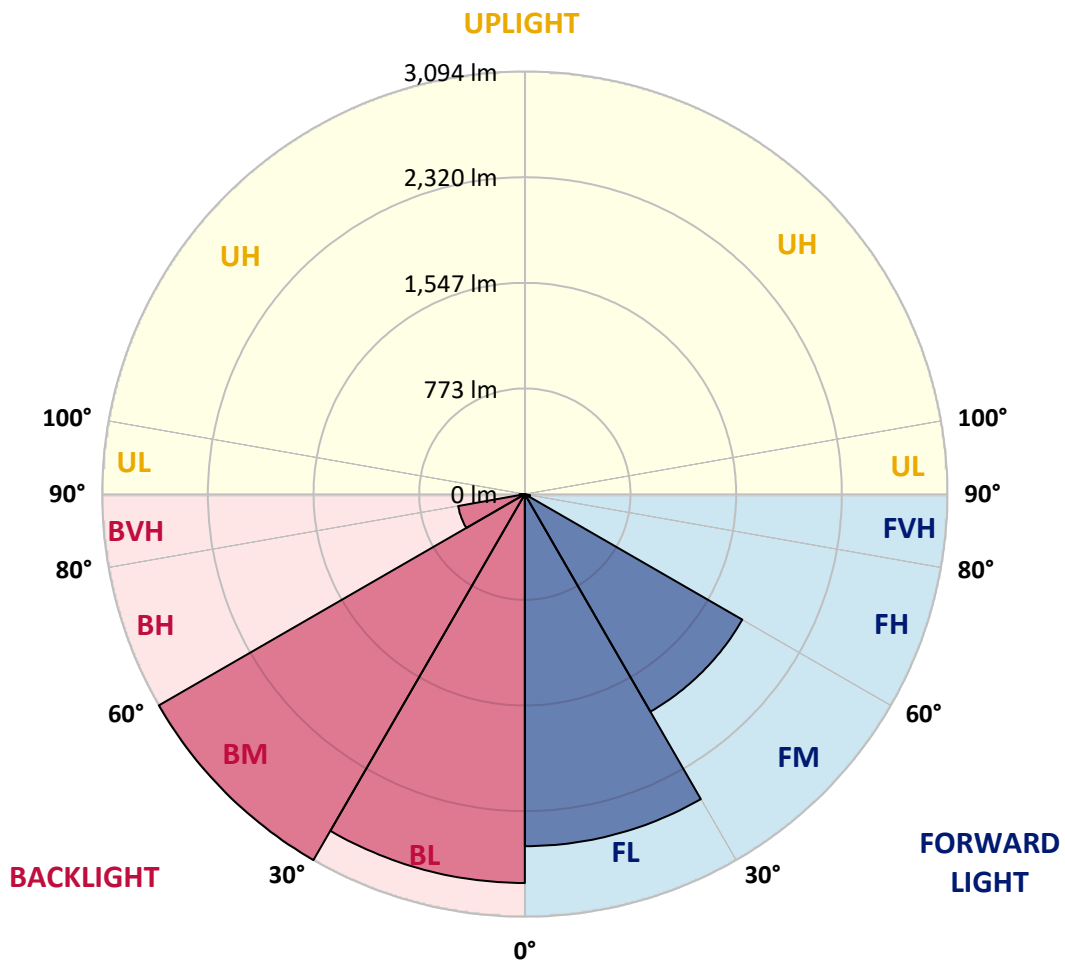
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2577.2	23.6			
FM (30°-60°)	1838.7	16.8			
FH (60°-80°)	38.5	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2847.0	26.0	B4/5000		
BM (30°-60°)	3093.9	28.3	B3/5000		
BH (60°-80°)	495.5	4.5	B1/500		G1/500
BVH (80°-90°)	38.5	0.4			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°	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8
2.5°	8304.4	8315.2	8256.6	8262.8	8273.6	8352.1	8332.1	8313.6	8287.4	8332.1
5°	8293.6	8299.8	8238.2	8216.6	8225.9	8296.7	8232.0	8232.0	8225.9	8218.2
7.5°	8210.5	8213.5	8165.8	8127.3	8152.0	8184.3	8136.6	8159.7	8125.8	8152.0
10°	8085.8	8065.7	8008.8	7998.0	8025.7	8056.5	8024.2	8045.7	8014.9	8035.0
12.5°	7902.5	7871.8	7825.6	7811.7	7859.4	7901.0	7874.8	7862.5	7822.5	7871.8
15°	7195.9	7172.8	7277.5	7460.7	7625.4	7660.8	7633.1	7645.4	7562.3	7576.2
17.5°	5922.7	5879.6	5992.0	6426.1	7045.0	7371.4	7346.8	7266.7	7143.5	7171.3
20°	5382.3	5370.0	5357.7	5460.8	5893.4	6883.4	6917.2	6714.0	6538.5	6500.0
22.5°	5077.5	5072.8	5060.5	5083.6	5197.5	5833.4	6221.4	6033.5	5916.5	5905.7
25°	4798.8	4791.1	4754.2	4783.4	4783.4	4820.4	5317.6	5431.6	5328.4	5316.1
27.5°	4515.5	4501.7	4495.5	4509.4	4438.5	4189.1	4315.4	4871.2	4817.3	4820.4
30°	4209.2	4204.5	4187.6	4216.8	3998.2	3688.8	3608.7	4363.1	4373.9	4370.8
32.5°	3753.4	3773.5	3850.4	3882.8	3522.5	3266.9	3133.0	3775.0	3995.2	3990.5
35°	2726.6	2726.6	2977.5	3444.0	3086.8	2894.4	2822.0	3200.7	3621.0	3636.4
37.5°	2241.6	2249.3	2298.6	2511.0	2663.4	2595.7	2574.1	2694.2	3140.7	3165.3
40°	2016.8	2016.8	2016.8	1929.1	1924.4	2338.6	2326.3	2287.8	2712.7	2766.6
42.5°	1812.1	1816.7	1819.8	1598.1	1474.9	2021.4	1993.7	1935.2	2329.4	2392.5
45°	1601.1	1608.8	1618.1	1336.3	1282.5	1454.9	1687.4	1622.7	1950.6	2032.2
47.5°	977.6	989.9	1199.3	1133.1	1139.3	1122.3	1376.4	1365.6	1599.6	1715.1
50°	660.5	665.1	685.1	719.0	977.6	882.2	974.5	1130.0	1214.7	1390.2
52.5°	554.2	561.9	512.7	466.5	642.0	689.7	680.5	839.1	872.9	1090.0
55°	389.5	414.1	391.0	386.4	364.9	535.8	515.8	645.1	666.6	828.3
57.5°	40.0	46.2	80.1	287.9	238.6	303.3	368.0	472.6	494.2	611.2
60°	3.1	3.1	7.7	40.0	174.0	181.7	254.0	291.0	332.5	426.5
62.5°	0.0	1.5	3.1	6.2	27.7	97.0	127.8	152.4	200.1	275.6
65°	0.0	0.0	1.5	4.6	6.2	36.9	49.3	80.1	109.3	170.9
67.5°	0.0	0.0	1.5	3.1	4.6	9.2	16.9	29.3	58.5	97.0
70°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	18.5	26.2	52.3
72.5°	0.0	0.0	1.5	1.5	3.1	7.7	9.2	12.3	18.5	26.2
75°	0.0	0.0	1.5	1.5	4.6	9.2	7.7	9.2	12.3	16.9
77.5°	0.0	0.0	1.5	3.1	4.6	9.2	7.7	9.2	9.2	10.8
80°	0.0	0.0	1.5	3.1	6.2	10.8	9.2	9.2	7.7	7.7
82.5°	0.0	0.0	1.5	4.6	6.2	13.9	13.9	12.3	6.2	4.6
85°	0.0	0.0	3.1	6.2	9.2	15.4	15.4	12.3	4.6	3.1
87.5°	0.0	0.0	3.1	4.6	7.7	10.8	15.4	12.3	4.6	1.5
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°
8319.8	0°	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8
8293.6	2.5°	8335.2	8325.9	8356.7	8369.0	8386.0	8321.3	8281.3	8282.8	8208.9
8199.7	5°	8248.9	8250.5	8290.5	8287.4	8304.4	8269.0	8253.6	8227.4	8162.7
8081.1	7.5°	8139.6	8125.8	8164.3	8193.5	8150.4	8175.1	8139.6	8152.0	8113.5
7976.4	10°	8055.0	8022.6	8058.0	8078.1	8079.6	8055.0	8021.1	7988.8	7974.9
7813.3	12.5°	7867.1	7825.6	7885.6	7913.3	7908.7	7861.0	7822.5	7830.2	7785.5
7526.9	15°	7608.5	7610.0	7653.1	7679.3	7654.7	7643.9	7647.0	7628.5	7590.0
7131.2	17.5°	7212.8	7235.9	7349.8	7413.0	7426.8	7405.3	7394.5	7372.9	7334.5
6500.0	20°	6553.9	6692.5	6895.7	7091.2	7129.7	7123.5	7085.0	7075.8	7054.3
5875.0	22.5°	5975.0	6078.2	6313.7	6618.6	6775.6	6791.0	6744.8	6730.9	6707.9
5316.1	25°	5376.1	5487.0	5699.4	6030.4	6355.3	6421.5	6413.8	6372.2	6347.6
4820.4	27.5°	4871.2	4982.0	5174.5	5473.1	5821.1	6033.5	6053.5	5987.3	5985.8
4378.5	30°	4415.5	4567.9	4714.1	4957.4	5294.5	5613.2	5647.1	5600.9	5605.5
3973.6	32.5°	4058.3	4184.5	4309.2	4472.4	4752.6	5123.6	5256.0	5212.9	5196.0
3636.4	35°	3693.4	3779.6	3907.4	4056.7	4247.6	4615.6	4845.0	4812.7	4795.7
3180.7	37.5°	3277.7	3425.5	3517.9	3685.7	3835.0	4127.6	4450.9	4446.2	4410.8
2792.8	40°	2851.3	3006.8	3146.9	3316.2	3431.7	3664.1	4022.9	4021.3	4025.9
2390.9	42.5°	2464.8	2608.0	2777.4	2962.1	3073.0	3242.3	3627.2	3648.8	3674.9
2059.9	45°	2115.4	2244.7	2401.7	2626.5	2760.4	2857.4	3199.2	3297.7	3296.2
1764.3	47.5°	1801.3	1922.9	2055.3	2273.9	2444.8	2532.6	2815.9	2956.0	2946.7
1447.2	50°	1511.8	1619.6	1758.2	1916.7	2146.1	2223.1	2434.0	2618.8	2604.9
1153.1	52.5°	1216.3	1365.6	1482.6	1627.3	1869.0	1944.5	2107.7	2287.8	2277.0
865.2	55°	948.4	1093.1	1234.7	1359.4	1562.7	1675.0	1792.0	1976.8	1973.7
677.4	57.5°	717.4	876.0	1009.9	1128.5	1290.1	1428.7	1522.6	1690.4	1712.0
463.4	60°	531.1	652.8	797.5	929.9	1057.7	1200.9	1264.0	1428.7	1437.9
317.1	62.5°	361.8	495.7	637.4	757.5	852.9	1000.7	1057.7	1193.2	1210.1
203.2	65°	250.9	337.2	498.8	585.0	702.0	828.3	885.2	993.0	1026.9
117.0	67.5°	166.3	240.2	389.5	468.0	583.5	669.7	742.1	829.8	866.8
73.9	70°	90.8	177.0	278.7	369.5	469.6	552.7	623.5	694.3	726.7
33.9	72.5°	61.6	118.5	194.0	292.5	378.7	460.3	523.4	575.8	577.3
20.0	75°	30.8	80.1	147.8	226.3	295.6	375.7	432.6	463.4	426.5
12.3	77.5°	18.5	58.5	120.1	181.7	240.2	303.3	335.6	352.6	292.5
9.2	80°	10.8	41.6	93.9	144.7	166.3	223.2	254.0	258.6	195.5
6.2	82.5°	7.7	30.8	73.9	106.2	101.6	157.0	190.9	184.7	124.7
4.6	85°	4.6	21.6	46.2	66.2	61.6	103.2	110.8	113.9	72.4
3.1	87.5°	3.1	12.3	24.6	35.4	29.3	44.6	44.6	53.9	35.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
8319.8
8113.5
8147.3
8048.8
7913.3
7747.1
7551.5
7317.5
7005.0
6701.7
6321.4
5982.7
5582.4
5197.5
4772.6
4440.1
4025.9
3661.1
3299.3
2949.8
2617.2
2300.1
1981.4
1702.8
1451.8
1213.2
1019.2
862.2
714.4
563.5
398.7
281.7
183.2
115.5
66.2
30.8
0.0

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