

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: P636743

Luminaire Tested: **IFLD-S-SA3B-930-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636743  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-930-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 3000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8376.5 lumens  
Efficiency: N/A  
Efficacy: 68.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

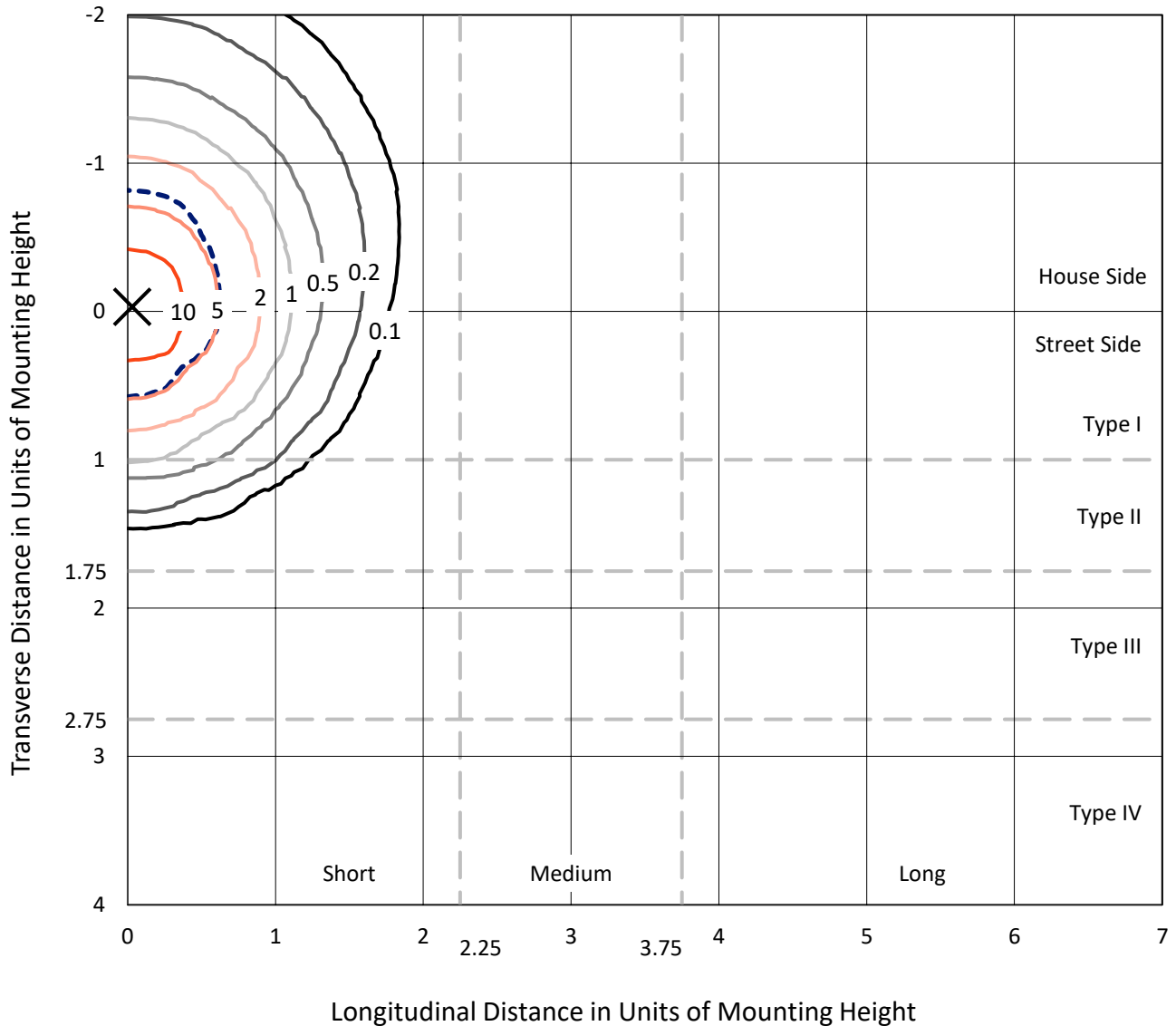
Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

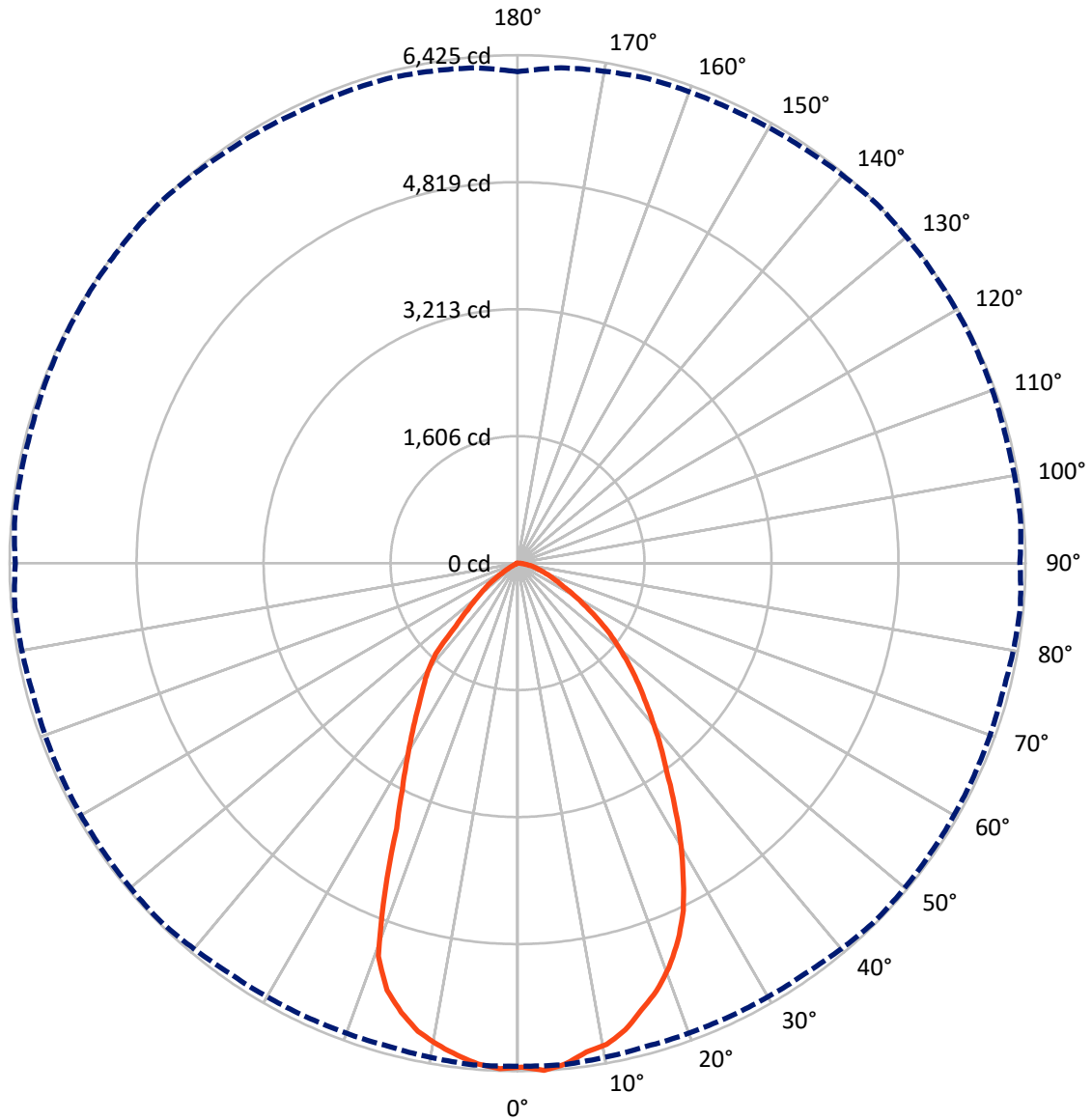
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.9 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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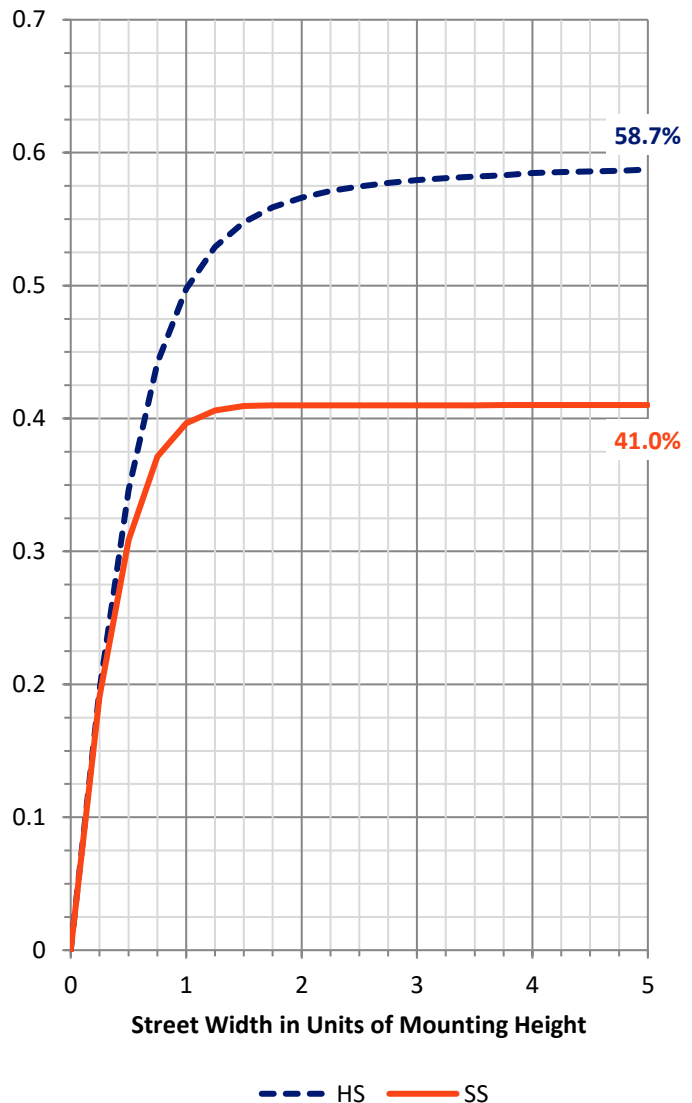
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4961.0	0.0	4961.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3415.5	0.0	3415.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	8376.5	0.0	8376.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	597.8	7.1
10°-20°	1603.1	19.1
20°-30°	1955.1	23.3
30°-40°	1785.0	21.3
40°-50°	1290.0	15.4
50°-60°	704.3	8.4
60°-70°	291.2	3.5
70°-80°	117.9	1.4
80°-90°	32.1	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°	8376.5	100.0
0°-180°	8376.5	100.0



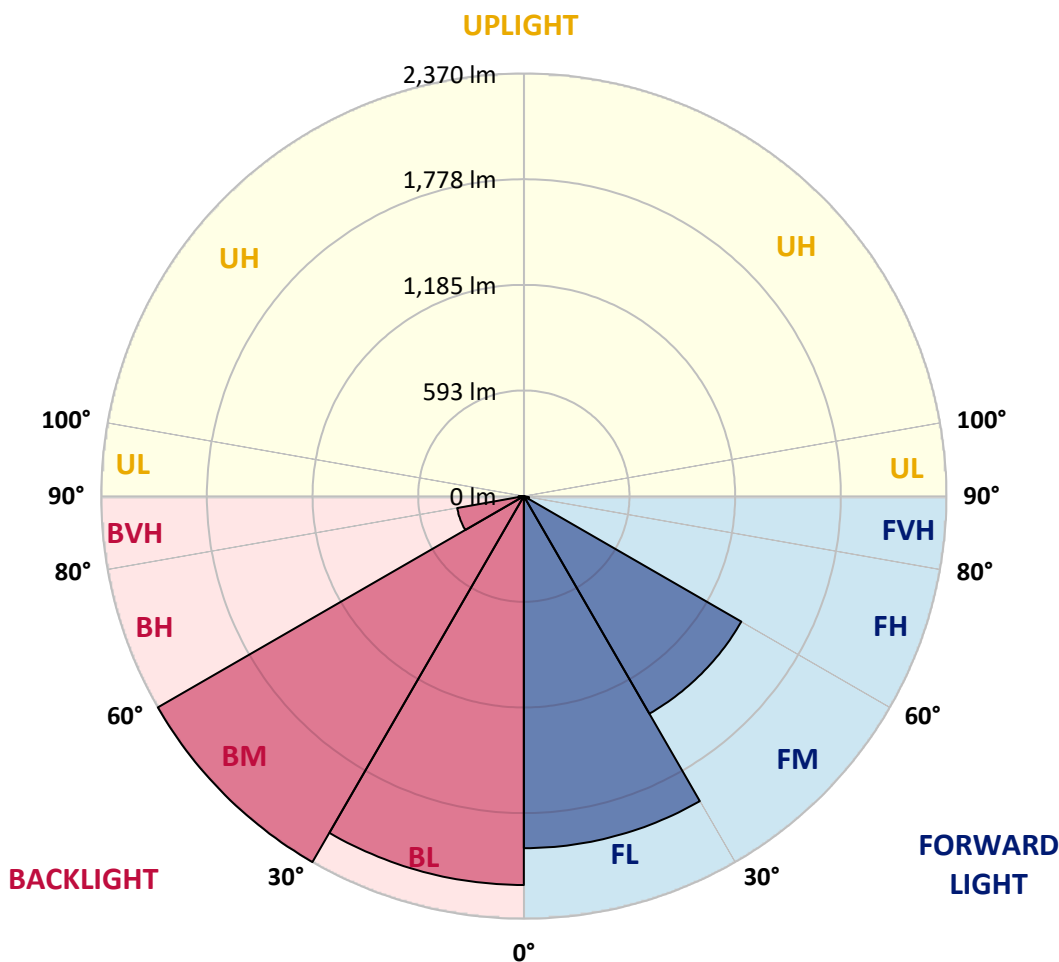
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.7	23.6			
FM (30°-60°)	1408.8	16.8			
FH (60°-80°)	29.5	0.4			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	2181.4	26.0	B3/2500		
BM (30°-60°)	2370.5	28.3	B2/2500		
BH (60°-80°)	379.6	4.5	B1/500		G1/500
BVH (80°-90°)	29.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5
2.5°	6362.7	6371.0	6326.2	6330.9	6339.1	6399.3	6384.0	6369.8	6349.7	6384.0
5°	6354.5	6359.2	6312.0	6295.5	6302.6	6356.8	6307.3	6307.3	6302.6	6296.7
7.5°	6290.8	6293.1	6256.6	6227.1	6245.9	6270.7	6234.1	6251.8	6225.9	6245.9
10°	6195.2	6179.9	6136.2	6128.0	6149.2	6172.8	6148.0	6164.5	6141.0	6156.3
12.5°	6054.8	6031.3	5995.9	5985.3	6021.8	6053.7	6033.6	6024.2	5993.5	6031.3
15°	5513.4	5495.7	5575.9	5716.3	5842.5	5869.7	5848.4	5857.9	5794.2	5804.8
17.5°	4537.9	4504.9	4591.0	4923.6	5397.8	5647.9	5629.0	5567.7	5473.3	5494.5
20°	4123.9	4114.4	4105.0	4184.0	4515.5	5274.0	5299.9	5144.2	5009.7	4980.2
22.5°	3890.3	3886.8	3877.3	3895.0	3982.3	4469.5	4766.7	4622.8	4533.2	4524.9
25°	3676.8	3670.9	3642.6	3665.0	3665.0	3693.3	4074.3	4161.6	4082.6	4073.1
27.5°	3459.7	3449.1	3444.4	3455.0	3400.8	3209.7	3306.4	3732.2	3690.9	3693.3
30°	3225.0	3221.5	3208.5	3230.9	3063.4	2826.3	2765.0	3343.0	3351.2	3348.9
32.5°	2875.8	2891.2	2950.2	2974.9	2698.9	2503.1	2400.5	2892.4	3061.0	3057.5
35°	2089.1	2089.1	2281.3	2638.7	2365.1	2217.6	2162.2	2452.4	2774.4	2786.2
37.5°	1717.5	1723.4	1761.1	1923.9	2040.7	1988.8	1972.3	2064.3	2406.4	2425.2
40°	1545.3	1545.3	1545.3	1478.0	1474.5	1791.8	1782.4	1752.9	2078.4	2119.7
42.5°	1388.4	1391.9	1394.3	1224.4	1130.0	1548.8	1527.6	1482.7	1784.7	1833.1
45°	1226.8	1232.7	1239.8	1023.9	982.6	1114.7	1292.8	1243.3	1494.5	1557.1
47.5°	749.0	758.5	918.9	868.2	872.9	859.9	1054.6	1046.3	1225.6	1314.1
50°	506.0	509.6	524.9	550.9	749.0	675.9	746.7	865.8	930.7	1065.2
52.5°	424.7	430.6	392.8	357.4	491.9	528.5	521.4	642.9	668.8	835.2
55°	298.4	317.3	299.6	296.1	279.6	410.5	395.2	494.2	510.8	634.6
57.5°	30.7	35.4	61.3	220.6	182.8	232.4	281.9	362.1	378.6	468.3
60°	2.4	2.4	5.9	30.7	133.3	139.2	194.6	222.9	254.8	326.7
62.5°	0.0	1.2	2.4	4.7	21.2	74.3	97.9	116.8	153.3	211.1
65°	0.0	0.0	1.2	3.5	4.7	28.3	37.7	61.3	83.8	130.9
67.5°	0.0	0.0	1.2	2.4	3.5	7.1	13.0	22.4	44.8	74.3
70°	0.0	0.0	1.2	2.4	3.5	5.9	9.4	14.2	20.1	40.1
72.5°	0.0	0.0	1.2	1.2	2.4	5.9	7.1	9.4	14.2	20.1
75°	0.0	0.0	1.2	1.2	3.5	7.1	5.9	7.1	9.4	13.0
77.5°	0.0	0.0	1.2	2.4	3.5	7.1	5.9	7.1	7.1	8.3
80°	0.0	0.0	1.2	2.4	4.7	8.3	7.1	7.1	5.9	5.9
82.5°	0.0	0.0	1.2	3.5	4.7	10.6	10.6	9.4	4.7	3.5
85°	0.0	0.0	2.4	4.7	7.1	11.8	11.8	9.4	3.5	2.4
87.5°	0.0	0.0	2.4	3.5	5.9	8.3	11.8	9.4	3.5	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°
6374.5	0°	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5	6374.5
6354.5	2.5°	6386.3	6379.2	6402.8	6412.3	6425.2	6375.7	6345.0	6346.2	6289.6
6282.5	5°	6320.3	6321.4	6352.1	6349.7	6362.7	6335.6	6323.8	6303.7	6254.2
6191.7	7.5°	6236.5	6225.9	6255.4	6277.8	6244.8	6263.6	6236.5	6245.9	6216.5
6111.5	10°	6171.6	6146.9	6174.0	6189.3	6190.5	6171.6	6145.7	6120.9	6110.3
5986.4	12.5°	6027.7	5995.9	6041.9	6063.1	6059.6	6023.0	5993.5	5999.4	5965.2
5767.0	15°	5829.5	5830.7	5863.8	5883.8	5864.9	5856.7	5859.0	5844.9	5815.4
5463.9	17.5°	5526.4	5544.1	5631.4	5679.7	5690.4	5673.8	5665.6	5649.1	5619.6
4980.2	20°	5021.5	5127.7	5283.4	5433.2	5462.7	5458.0	5428.5	5421.4	5404.9
4501.3	22.5°	4578.0	4657.0	4837.5	5071.1	5191.4	5203.2	5167.8	5157.2	5139.5
4073.1	25°	4119.1	4204.1	4366.9	4620.5	4869.4	4920.1	4914.2	4882.3	4863.5
3693.3	27.5°	3732.2	3817.2	3964.6	4193.5	4460.0	4622.8	4638.2	4587.4	4586.3
3354.8	30°	3383.1	3499.9	3611.9	3798.3	4056.6	4300.8	4326.7	4291.4	4294.9
3044.5	32.5°	3109.4	3206.1	3301.7	3426.7	3641.4	3925.7	4027.1	3994.1	3981.1
2786.2	35°	2829.8	2895.9	2993.8	3108.2	3254.5	3536.4	3712.2	3687.4	3674.4
2437.0	37.5°	2511.4	2624.6	2695.4	2823.9	2938.4	3162.5	3410.2	3406.7	3379.5
2139.8	40°	2184.6	2303.7	2411.1	2540.8	2629.3	2807.4	3082.3	3081.1	3084.6
1831.9	42.5°	1888.5	1998.2	2128.0	2269.5	2354.5	2484.2	2779.1	2795.6	2815.7
1578.3	45°	1620.8	1719.8	1840.2	2012.4	2115.0	2189.3	2451.2	2526.7	2525.5
1351.8	47.5°	1380.1	1473.3	1574.8	1742.3	1873.2	1940.4	2157.5	2264.8	2257.7
1108.8	50°	1158.4	1240.9	1347.1	1468.6	1644.4	1703.3	1864.9	2006.5	1995.9
883.5	52.5°	931.9	1046.3	1135.9	1246.8	1432.0	1489.8	1614.9	1752.9	1744.6
662.9	55°	726.6	837.5	946.0	1041.6	1197.3	1283.4	1373.0	1514.6	1512.2
519.0	57.5°	549.7	671.2	773.8	864.6	988.5	1094.7	1166.6	1295.2	1311.7
355.1	60°	407.0	500.1	611.0	712.5	810.4	920.1	968.4	1094.7	1101.7
243.0	62.5°	277.2	379.8	488.4	580.4	653.5	766.7	810.4	914.2	927.2
155.7	65°	192.3	258.3	382.2	448.2	537.9	634.6	678.3	760.8	786.8
89.6	67.5°	127.4	184.0	298.4	358.6	447.1	513.1	568.6	635.8	664.1
56.6	70°	69.6	135.7	213.5	283.1	359.8	423.5	477.7	532.0	556.8
26.0	72.5°	47.2	90.8	148.6	224.1	290.2	352.7	401.1	441.2	442.3
15.3	75°	23.6	61.3	113.2	173.4	226.5	287.8	331.5	355.1	326.7
9.4	77.5°	14.2	44.8	92.0	139.2	184.0	232.4	257.2	270.1	224.1
7.1	80°	8.3	31.8	72.0	110.9	127.4	171.0	194.6	198.2	149.8
4.7	82.5°	5.9	23.6	56.6	81.4	77.9	120.3	146.3	141.6	95.5
3.5	85°	3.5	16.5	35.4	50.7	47.2	79.0	84.9	87.3	55.4
2.4	87.5°	2.4	9.4	18.9	27.1	22.4	34.2	34.2	41.3	27.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6374.5
6216.5
6242.4
6166.9
6063.1
5935.7
5785.9
5606.6
5367.1
5134.8
4843.4
4583.9
4277.2
3982.3
3656.7
3401.9
3084.6
2805.1
2527.9
2260.1
2005.3
1762.3
1518.1
1304.6
1112.4
929.5
780.9
660.6
547.3
431.7
305.5
215.9
140.4
88.5
50.7
23.6
0.0

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