

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: P638135

Luminaire Tested: **IFLD-S-SA3B-735-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638135  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-735-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12909 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

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

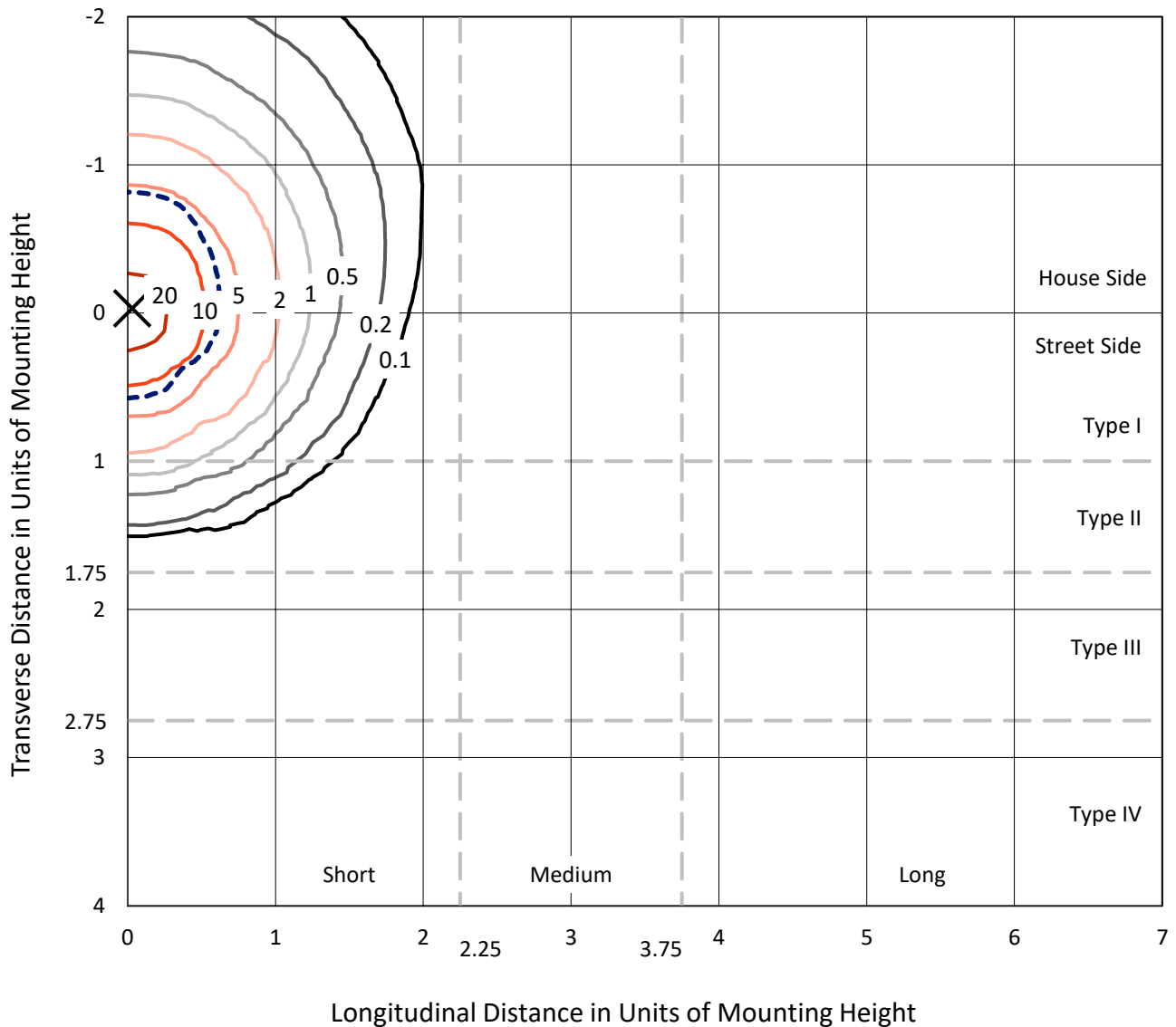




REPORT NUMBER: P638135  
 CATALOG NUMBER: IFLD-S-SA3B-735-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

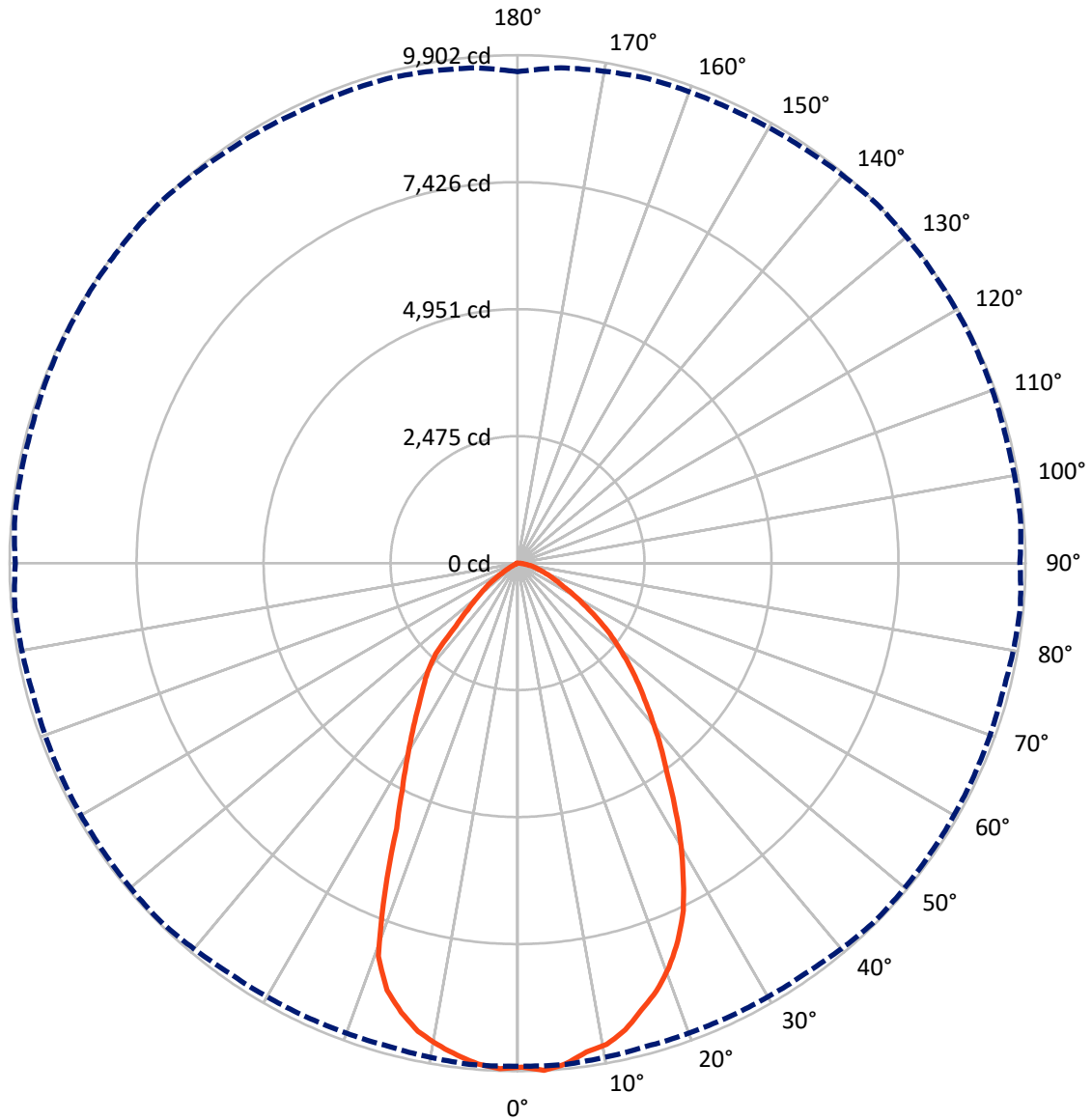
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.6 fc  
 Type I - Short - N/A

REPORT NUMBER: P638135  
CATALOG NUMBER: IFLD-S-SA3B-735-U-77-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638135  
 CATALOG NUMBER: IFLD-S-SA3B-735-U-77-VI

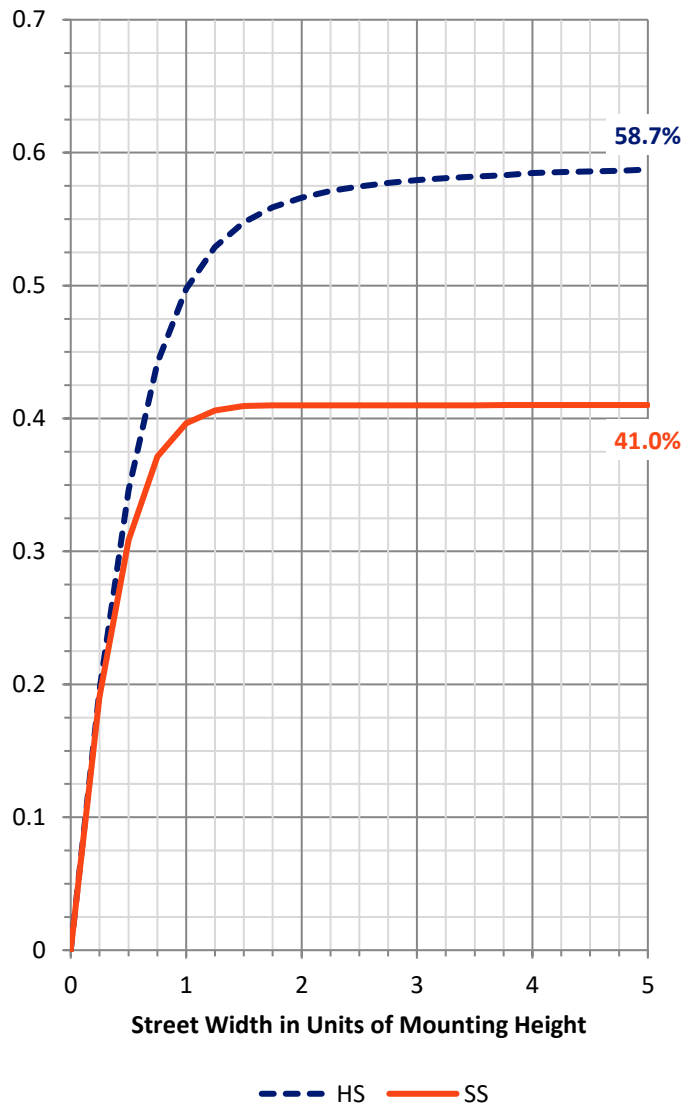
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7645.4	0.0	7645.4
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5263.6	0.0	5263.6
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	12909.0	0.0	12909.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	921.3	7.1
10°-20°	2470.6	19.1
20°-30°	3013.0	23.3
30°-40°	2750.8	21.3
40°-50°	1987.9	15.4
50°-60°	1085.4	8.4
60°-70°	448.8	3.5
70°-80°	181.8	1.4
80°-90°	49.4	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°	12909.0	100.0
0°-180°	12909.0	100.0



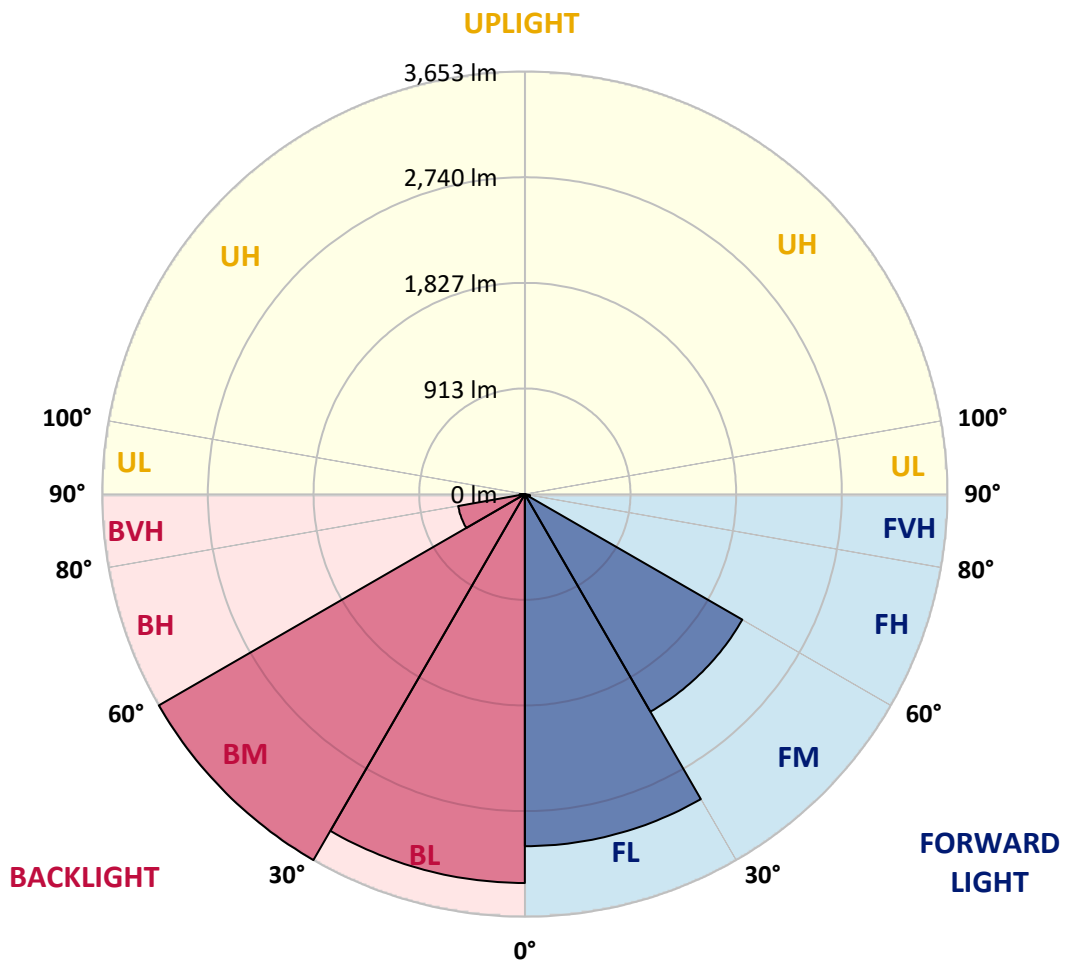
REPORT NUMBER: P638135  
 CATALOG NUMBER: IFLD-S-SA3B-735-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3043.1	23.6			
FM (30°-60°)	2171.0	16.8			
FH (60°-80°)	45.5	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	3361.7	26.0	B4/5000		
BM (30°-60°)	3653.1	28.3	B3/5000		
BH (60°-80°)	585.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	45.5	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-G2**

Type I Short





REPORT NUMBER: P638135  
 CATALOG NUMBER: IFLD-S-SA3B-735-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7
2.5°	9805.5	9818.3	9749.2	9756.5	9769.2	9861.9	9838.3	9816.5	9785.6	9838.3
5°	9792.8	9800.1	9727.4	9701.9	9712.8	9796.5	9720.1	9720.1	9712.8	9703.7
7.5°	9694.7	9698.3	9641.9	9596.5	9625.6	9663.8	9607.4	9634.7	9594.7	9625.6
10°	9547.4	9523.8	9456.5	9443.8	9476.5	9512.9	9474.7	9500.1	9463.8	9487.4
12.5°	9331.1	9294.7	9240.2	9223.8	9280.2	9329.3	9298.4	9283.8	9236.6	9294.7
15°	8496.7	8469.4	8593.0	8809.4	9003.9	9045.7	9013.0	9027.5	8929.3	8945.7
17.5°	6993.3	6942.4	7075.1	7587.8	8318.5	8703.9	8674.8	8580.3	8434.9	8467.6
20°	6355.2	6340.7	6326.2	6448.0	6958.8	8127.7	8167.7	7927.7	7720.5	7675.0
22.5°	5995.3	5989.9	5975.3	6002.6	6137.1	6887.9	7346.0	7124.2	6986.0	6973.3
25°	5666.3	5657.2	5613.6	5648.1	5648.1	5691.7	6278.9	6413.4	6291.6	6277.1
27.5°	5331.8	5315.4	5308.2	5324.5	5240.9	4946.4	5095.5	5751.7	5688.1	5691.7
30°	4970.0	4964.6	4944.6	4979.1	4721.0	4355.6	4261.1	5151.8	5164.5	5160.9
32.5°	4431.9	4455.6	4546.5	4584.6	4159.3	3857.5	3699.3	4457.4	4717.4	4711.9
35°	3219.4	3219.4	3515.7	4066.6	3644.8	3417.6	3332.1	3779.3	4275.6	4293.8
37.5°	2646.8	2655.9	2714.1	2964.9	3144.9	3064.9	3039.5	3181.3	3708.4	3737.5
40°	2381.4	2381.4	2381.4	2277.8	2272.3	2761.3	2746.8	2701.3	3203.1	3266.7
42.5°	2139.6	2145.1	2148.7	1886.9	1741.5	2386.9	2354.1	2285.1	2750.4	2825.0
45°	1890.6	1899.7	1910.6	1577.9	1514.3	1717.9	1992.4	1916.0	2303.2	2399.6
47.5°	1154.3	1168.9	1416.1	1337.9	1345.2	1325.2	1625.2	1612.4	1888.8	2025.1
50°	779.9	785.3	808.9	848.9	1154.3	1041.6	1150.7	1334.3	1434.3	1641.5
52.5°	654.4	663.5	605.3	550.8	758.0	814.4	803.5	990.7	1030.7	1287.0
55°	459.9	489.0	461.7	456.3	430.8	632.6	609.0	761.7	787.1	978.0
57.5°	47.3	54.5	94.5	339.9	281.8	358.1	434.5	558.1	583.5	721.7
60°	3.6	3.6	9.1	47.3	205.4	214.5	299.9	343.6	392.7	503.5
62.5°	0.0	1.8	3.6	7.3	32.7	114.5	150.9	180.0	236.3	325.4
65°	0.0	0.0	1.8	5.5	7.3	43.6	58.2	94.5	129.1	201.8
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	20.0	34.5	69.1	114.5
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.5	21.8	30.9	61.8
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	10.9	14.5	21.8	30.9
75°	0.0	0.0	1.8	1.8	5.5	10.9	9.1	10.9	14.5	20.0
77.5°	0.0	0.0	1.8	3.6	5.5	10.9	9.1	10.9	10.9	12.7
80°	0.0	0.0	1.8	3.6	7.3	12.7	10.9	10.9	9.1	9.1
82.5°	0.0	0.0	1.8	5.5	7.3	16.4	16.4	14.5	7.3	5.5
85°	0.0	0.0	3.6	7.3	10.9	18.2	18.2	14.5	5.5	3.6
87.5°	0.0	0.0	3.6	5.5	9.1	12.7	18.2	14.5	5.5	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638135

CATALOG NUMBER: IFLD-S-SA3B-735-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9823.7	0°	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7	9823.7
9792.8	2.5°	9841.9	9831.0	9867.4	9881.9	9901.9	9825.5	9778.3	9780.1	9692.8
9681.9	5°	9740.1	9741.9	9789.2	9785.6	9805.5	9763.7	9745.6	9714.7	9638.3
9542.0	7.5°	9611.0	9594.7	9640.1	9674.7	9623.8	9652.8	9611.0	9625.6	9580.1
9418.3	10°	9511.1	9472.9	9514.7	9538.3	9540.1	9511.1	9471.1	9432.9	9416.5
9225.7	12.5°	9289.3	9240.2	9311.1	9343.8	9338.4	9282.0	9236.6	9245.6	9192.9
8887.5	15°	8983.9	8985.7	9036.6	9067.5	9038.4	9025.7	9029.3	9007.5	8962.1
8420.3	17.5°	8516.7	8544.0	8678.5	8753.0	8769.4	8743.9	8731.2	8705.7	8660.3
7675.0	20°	7738.6	7902.2	8142.2	8373.1	8418.5	8411.2	8365.8	8354.9	8329.4
6937.0	22.5°	7055.1	7176.9	7455.1	7815.0	8000.4	8018.6	7964.1	7947.7	7920.4
6277.1	25°	6348.0	6478.9	6729.7	7120.6	7504.1	7582.3	7573.2	7524.1	7495.0
5691.7	27.5°	5751.7	5882.6	6109.8	6462.5	6873.3	7124.2	7147.8	7069.7	7067.8
5170.0	30°	5213.6	5393.6	5566.3	5853.5	6251.6	6627.9	6667.9	6613.4	6618.8
4691.9	32.5°	4791.9	4940.9	5088.2	5280.9	5611.7	6049.8	6206.2	6155.3	6135.3
4293.8	35°	4361.1	4462.9	4613.7	4790.1	5015.5	5450.0	5720.8	5682.6	5662.6
3755.7	37.5°	3870.2	4044.7	4153.8	4352.0	4528.3	4873.7	5255.4	5250.0	5208.2
3297.6	40°	3366.7	3550.3	3715.7	3915.7	4052.0	4326.5	4750.1	4748.3	4753.7
2823.1	42.5°	2910.4	3079.5	3279.4	3497.6	3628.5	3828.4	4282.9	4308.3	4339.2
2432.3	45°	2497.7	2650.4	2835.9	3101.3	3259.4	3374.0	3777.5	3893.9	3892.0
2083.3	47.5°	2126.9	2270.5	2426.8	2685.0	2886.8	2990.4	3324.9	3490.3	3479.4
1708.8	50°	1785.1	1912.4	2076.0	2263.2	2534.1	2625.0	2874.0	3092.2	3075.8
1361.6	52.5°	1436.1	1612.4	1750.6	1921.5	2206.9	2296.0	2488.7	2701.3	2688.6
1021.6	55°	1119.8	1290.7	1457.9	1605.2	1845.1	1977.8	2116.0	2334.1	2330.5
799.9	57.5°	847.1	1034.4	1192.5	1332.5	1523.4	1687.0	1797.9	1996.0	2021.5
547.2	60°	627.2	770.8	941.7	1098.0	1248.9	1417.9	1492.5	1687.0	1697.9
374.5	62.5°	427.2	585.4	752.6	894.4	1007.1	1181.6	1248.9	1408.8	1428.8
240.0	65°	296.3	398.1	589.0	690.8	828.9	978.0	1045.3	1172.5	1212.5
138.2	67.5°	196.3	283.6	459.9	552.6	689.0	790.8	876.2	979.8	1023.5
87.3	70°	107.3	209.1	329.0	436.3	554.4	652.6	736.2	819.9	858.0
40.0	72.5°	72.7	140.0	229.1	345.4	447.2	543.5	618.1	679.9	681.7
23.6	75°	36.4	94.5	174.5	267.2	349.0	443.6	510.8	547.2	503.5
14.5	77.5°	21.8	69.1	141.8	214.5	283.6	358.1	396.3	416.3	345.4
10.9	80°	12.7	49.1	110.9	170.9	196.3	263.6	299.9	305.4	230.9
7.3	82.5°	9.1	36.4	87.3	125.4	120.0	185.4	225.4	218.1	147.2
5.5	85°	5.5	25.5	54.5	78.2	72.7	121.8	130.9	134.5	85.4
3.6	87.5°	3.6	14.5	29.1	41.8	34.5	52.7	52.7	63.6	41.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
9823.7
9580.1
9620.1
9503.8
9343.8
9147.5
8916.6
8640.3
8271.3
7913.2
7464.1
7064.2
6591.6
6137.1
5635.4
5242.7
4753.7
4322.9
3895.7
3483.0
3090.4
2715.9
2339.6
2010.6
1714.2
1432.5
1203.4
1018.0
843.5
665.3
470.8
332.7
216.3
136.3
78.2
36.4
0.0

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