

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: P638193

Luminaire Tested: **IFLD-S-SA3B-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638193
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13388.1 lumens
Efficiency: N/A
Efficacy: 109.4 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

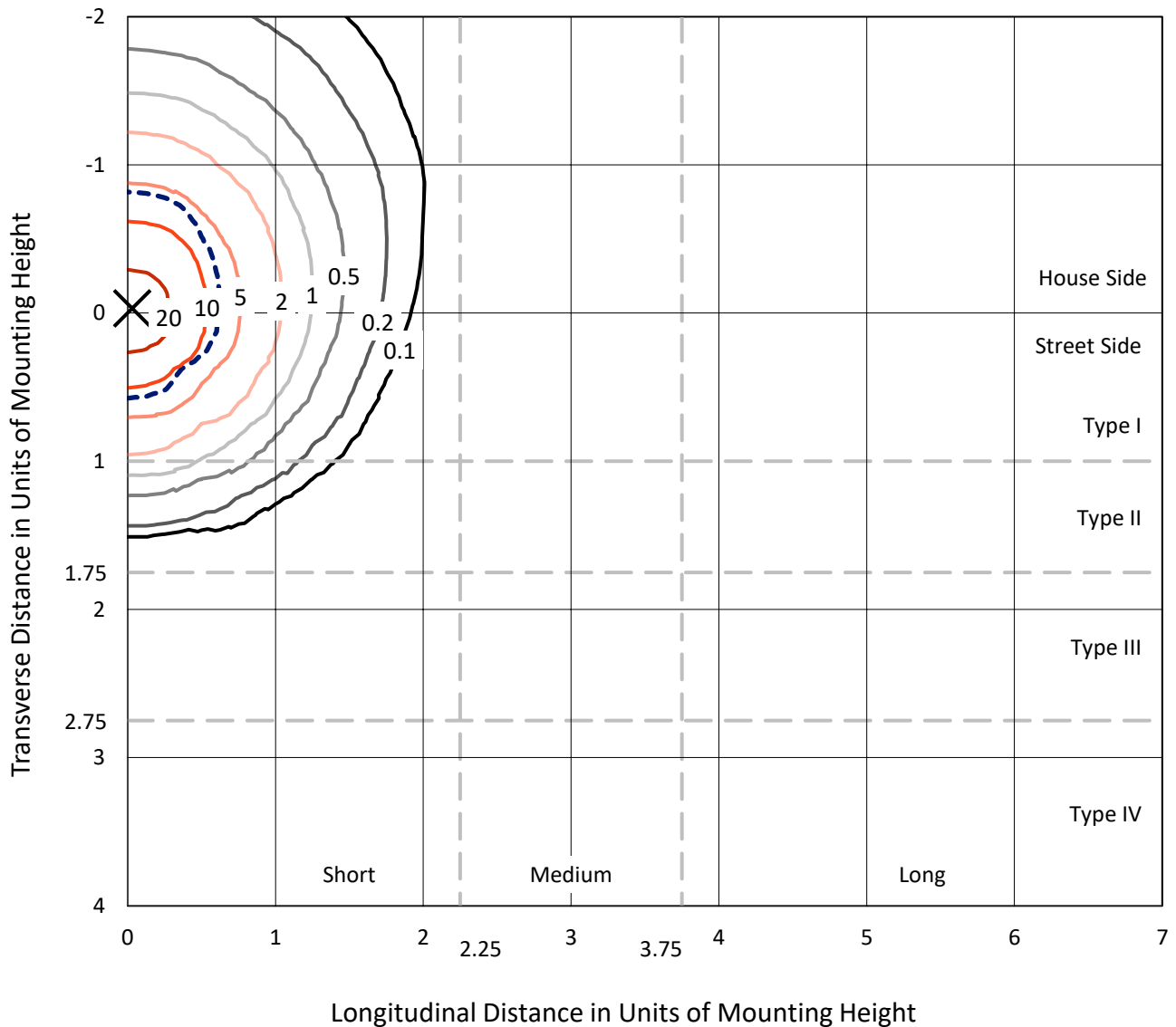
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

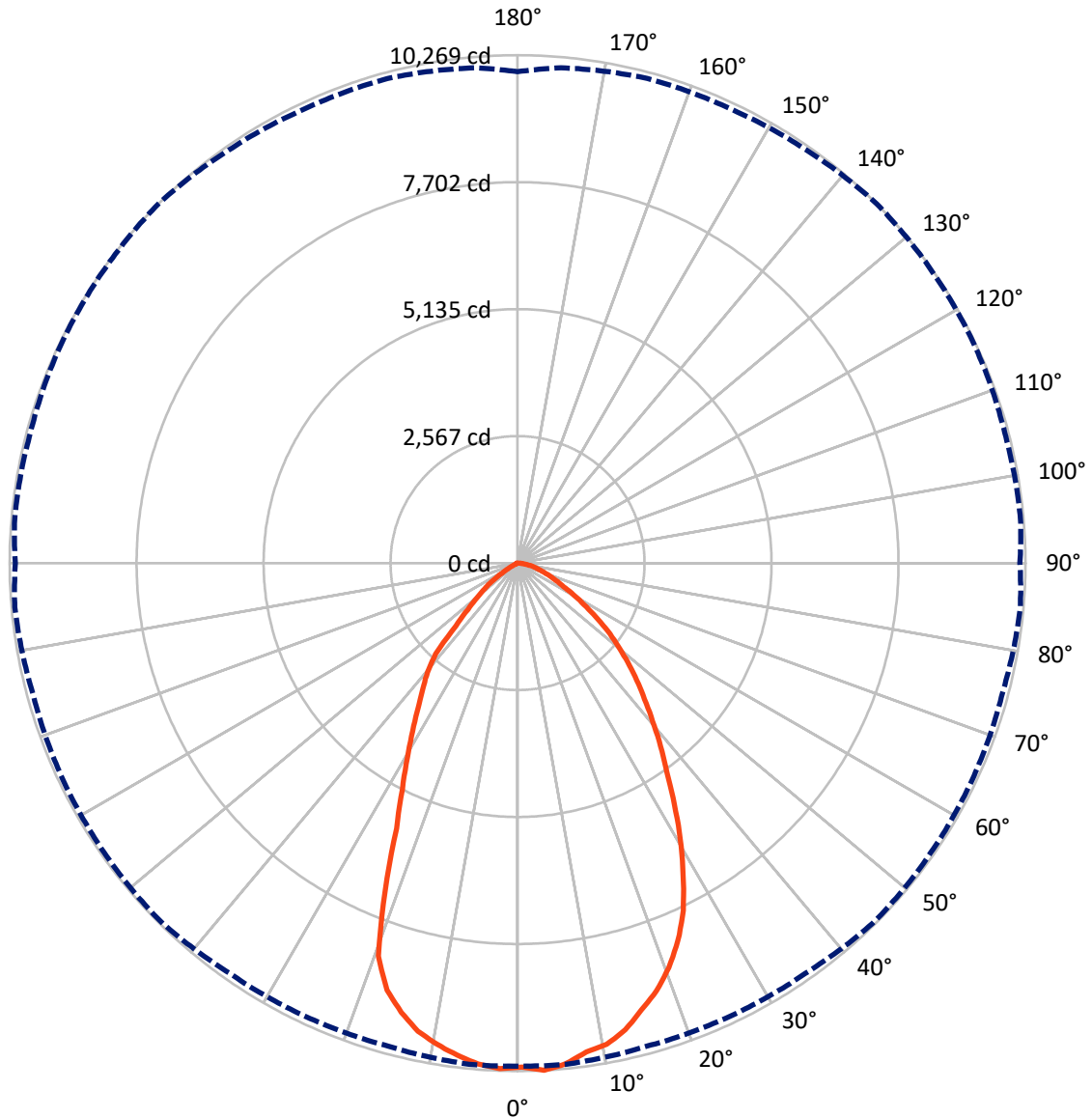
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 25.5 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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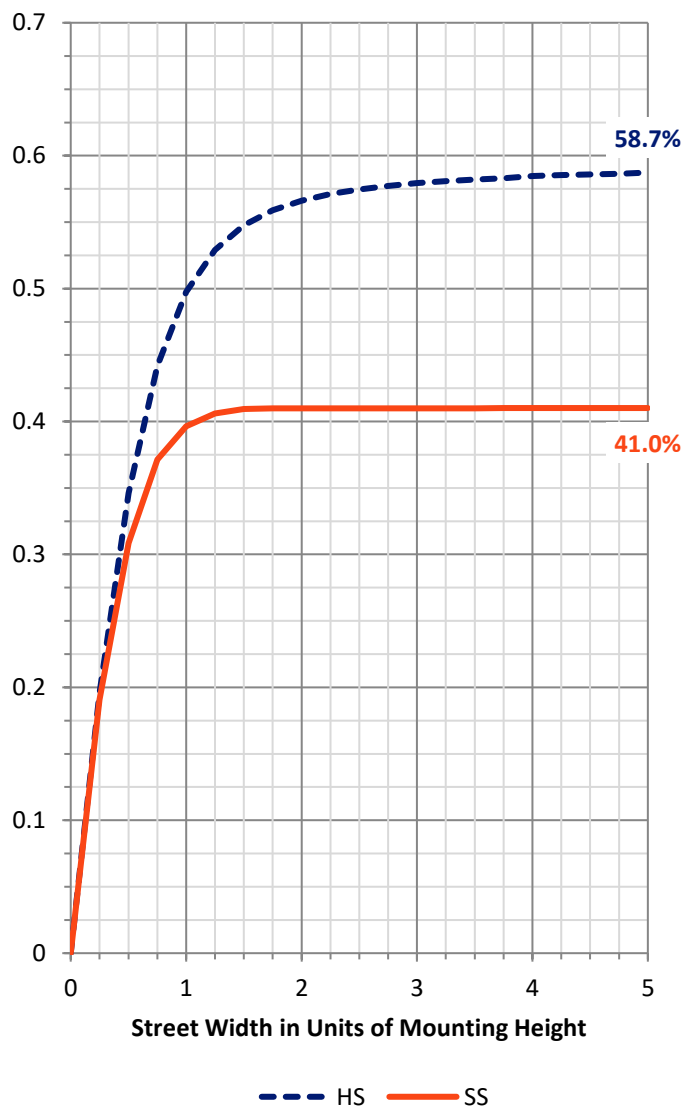
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7929.1	0.0	7929.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5459.0	0.0	5459.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	13388.1	0.0	13388.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	955.5	7.1
10°-20°	2562.2	19.1
20°-30°	3124.8	23.3
30°-40°	2852.9	21.3
40°-50°	2061.7	15.4
50°-60°	1125.7	8.4
60°-70°	465.4	3.5
70°-80°	188.5	1.4
80°-90°	51.3	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°	13388.1	100.0
0°-180°	13388.1	100.0



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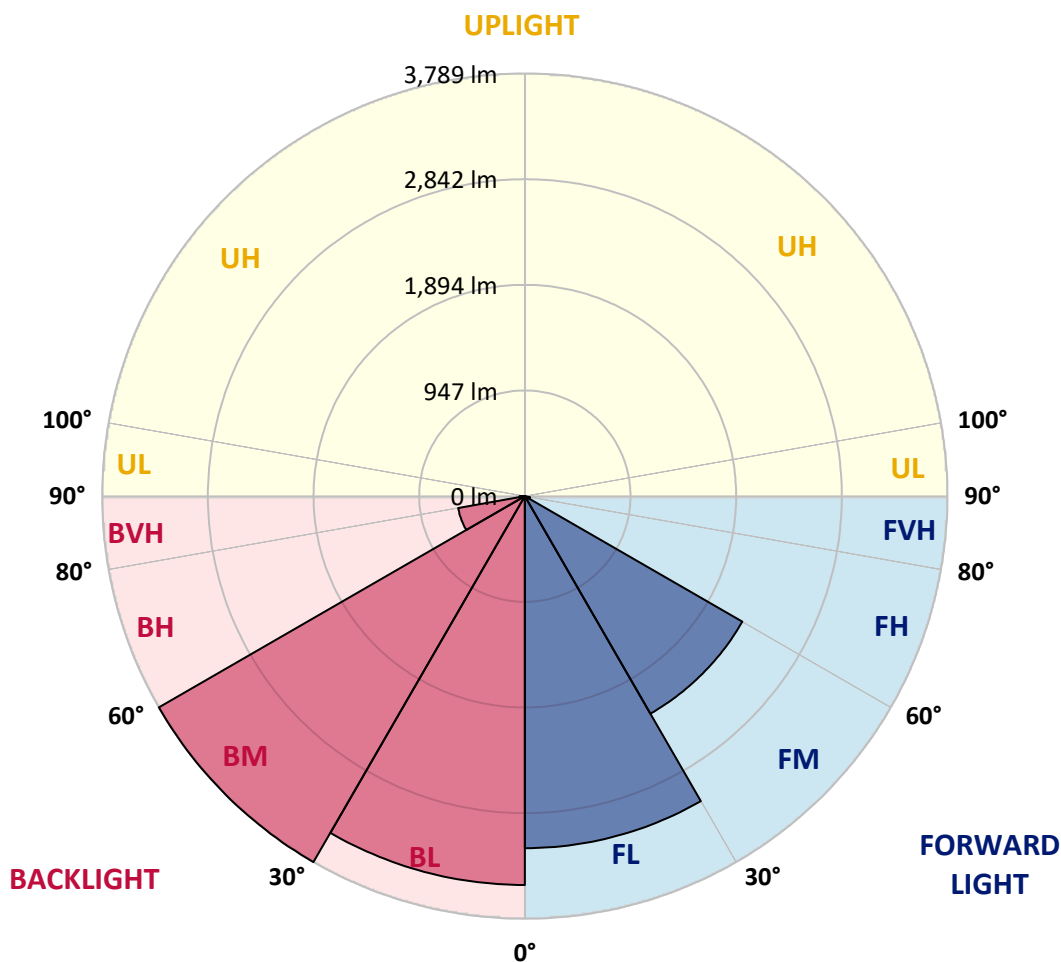
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3156.1	23.6			
FM	(30°-60°)	2251.6	16.8			
FH	(60°-80°)	47.2	0.4			G0/660
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	3486.4	26.0	B4/5000		
BM	(30°-60°)	3788.7	28.3	B3/5000		
BH	(60°-80°)	606.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	47.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3
2.5°	10169.4	10182.6	10111.0	10118.5	10131.7	10227.9	10203.4	10180.7	10148.7	10203.4
5°	10156.2	10163.8	10088.3	10062.0	10073.3	10160.0	10080.8	10080.8	10073.3	10063.8
7.5°	10054.4	10058.2	9999.7	9952.6	9982.8	10022.4	9963.9	9992.2	9950.7	9982.8
10°	9901.7	9877.2	9807.4	9794.2	9828.2	9865.9	9826.3	9852.7	9815.0	9839.5
12.5°	9677.3	9639.6	9583.1	9566.1	9624.6	9675.5	9643.4	9628.3	9579.3	9639.6
15°	8812.0	8783.7	8911.9	9136.3	9338.0	9381.4	9347.4	9362.5	9260.7	9277.7
17.5°	7252.8	7200.0	7337.7	7869.3	8627.2	9026.9	8996.7	8898.7	8747.9	8781.8
20°	6591.1	6576.0	6560.9	6687.2	7217.0	8429.3	8470.7	8221.9	8007.0	7959.8
22.5°	6217.8	6212.1	6197.0	6225.3	6364.8	7143.5	7618.6	7388.6	7245.3	7232.1
25°	5876.5	5867.1	5821.9	5857.7	5857.7	5902.9	6511.9	6651.4	6525.1	6510.0
27.5°	5529.6	5512.7	5505.1	5522.1	5435.4	5130.0	5284.6	5965.2	5899.2	5902.9
30°	5154.5	5148.8	5128.1	5163.9	4896.2	4517.2	4419.2	5343.0	5356.2	5352.4
32.5°	4596.4	4620.9	4715.2	4754.8	4313.6	4000.6	3836.6	4622.8	4892.4	4886.8
35°	3338.9	3338.9	3646.2	4217.5	3780.1	3544.4	3455.8	3919.6	4434.3	4453.1
37.5°	2745.0	2754.5	2814.8	3075.0	3261.6	3178.7	3152.3	3299.3	3846.1	3876.2
40°	2469.8	2469.8	2469.8	2362.3	2356.7	2863.8	2848.7	2801.6	3321.9	3387.9
42.5°	2219.0	2224.7	2228.4	1957.0	1806.1	2475.4	2441.5	2369.8	2852.5	2929.8
45°	1960.7	1970.2	1981.5	1636.5	1570.5	1781.6	2066.3	1987.1	2388.7	2488.6
47.5°	1197.2	1212.3	1468.7	1387.6	1395.1	1374.4	1685.5	1672.3	1958.8	2100.2
50°	808.8	814.5	839.0	880.4	1197.2	1080.3	1193.4	1383.8	1487.5	1702.4
52.5°	678.7	688.1	627.8	571.3	786.2	844.6	833.3	1027.5	1069.0	1334.8
55°	477.0	507.2	478.9	473.2	446.8	656.1	631.6	789.9	816.3	1014.3
57.5°	49.0	56.6	98.0	352.6	292.2	371.4	450.6	578.8	605.2	748.5
60°	3.8	3.8	9.4	49.0	213.0	222.5	311.1	356.3	407.2	522.2
62.5°	0.0	1.9	3.8	7.5	33.9	118.8	156.5	186.6	245.1	337.5
65°	0.0	0.0	1.9	5.7	7.5	45.2	60.3	98.0	133.9	209.3
67.5°	0.0	0.0	1.9	3.8	5.7	11.3	20.7	35.8	71.6	118.8
70°	0.0	0.0	1.9	3.8	5.7	9.4	15.1	22.6	32.1	64.1
72.5°	0.0	0.0	1.9	1.9	3.8	9.4	11.3	15.1	22.6	32.1
75°	0.0	0.0	1.9	1.9	5.7	11.3	9.4	11.3	15.1	20.7
77.5°	0.0	0.0	1.9	3.8	5.7	11.3	9.4	11.3	11.3	13.2
80°	0.0	0.0	1.9	3.8	7.5	13.2	11.3	11.3	9.4	9.4
82.5°	0.0	0.0	1.9	5.7	7.5	17.0	17.0	15.1	7.5	5.7
85°	0.0	0.0	3.8	7.5	11.3	18.9	18.9	15.1	5.7	3.8
87.5°	0.0	0.0	3.8	5.7	9.4	13.2	18.9	15.1	5.7	1.9
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°
10188.3	0°	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3	10188.3
10156.2	2.5°	10207.1	10195.8	10233.5	10248.6	10269.3	10190.2	10141.1	10143.0	10052.5
10041.2	5°	10101.5	10103.4	10152.4	10148.7	10169.4	10126.1	10107.2	10075.2	9996.0
9896.0	7.5°	9967.7	9950.7	9997.9	10033.7	9980.9	10011.1	9967.7	9982.8	9935.6
9767.8	10°	9864.0	9824.4	9867.8	9892.3	9894.2	9864.0	9822.5	9782.9	9766.0
9568.0	12.5°	9634.0	9583.1	9656.6	9690.5	9684.9	9626.4	9579.3	9588.7	9534.1
9217.3	15°	9317.3	9319.1	9371.9	9404.0	9373.8	9360.6	9364.4	9341.8	9294.6
8732.8	17.5°	8832.7	8861.0	9000.5	9077.8	9094.8	9068.4	9055.2	9028.8	8981.7
7959.8	20°	8025.8	8195.5	8444.3	8683.8	8730.9	8723.4	8676.2	8664.9	8638.5
7194.4	22.5°	7316.9	7443.2	7731.7	8105.0	8297.3	8316.1	8259.6	8242.6	8214.3
6510.0	25°	6583.5	6719.3	6979.5	7384.8	7782.6	7863.7	7854.2	7803.3	7773.2
5902.9	27.5°	5965.2	6100.9	6336.6	6702.3	7128.4	7388.6	7413.1	7332.0	7330.1
5361.9	30°	5407.1	5593.7	5772.9	6070.7	6483.6	6873.9	6915.4	6858.8	6864.5
4866.0	32.5°	4969.7	5124.3	5277.0	5476.9	5820.0	6274.3	6436.5	6383.7	6363.0
4453.1	35°	4522.9	4628.5	4784.9	4967.8	5201.6	5652.2	5933.1	5893.5	5872.8
3895.1	37.5°	4013.8	4194.8	4308.0	4513.5	4696.3	5054.5	5450.5	5444.8	5401.4
3420.0	40°	3491.6	3682.0	3853.6	4061.0	4202.4	4487.1	4926.3	4924.5	4930.1
2927.9	42.5°	3018.4	3193.7	3401.1	3627.4	3763.1	3970.5	4441.8	4468.2	4500.3
2522.6	45°	2590.4	2748.8	2941.1	3216.4	3380.4	3499.2	3917.7	4038.4	4036.5
2160.6	47.5°	2205.8	2354.8	2516.9	2784.6	2993.9	3101.4	3448.3	3619.8	3608.5
1772.2	50°	1851.4	1983.4	2153.0	2347.2	2628.1	2722.4	2980.7	3206.9	3190.0
1412.1	52.5°	1489.4	1672.3	1815.6	1992.8	2288.8	2381.2	2581.0	2801.6	2788.4
1059.6	55°	1161.4	1338.6	1512.0	1664.7	1913.6	2051.2	2194.5	2420.8	2417.0
829.5	57.5°	878.6	1072.7	1236.8	1381.9	1579.9	1749.6	1864.6	2070.1	2096.5
567.5	60°	650.4	799.4	976.6	1138.7	1295.2	1470.5	1547.8	1749.6	1760.9
388.4	62.5°	443.1	607.1	780.5	927.6	1044.5	1225.5	1295.2	1461.1	1481.9
248.9	65°	307.3	412.9	610.8	716.4	859.7	1014.3	1084.1	1216.0	1257.5
143.3	67.5°	203.6	294.1	477.0	573.1	714.5	820.1	908.7	1016.2	1061.4
90.5	70°	111.2	216.8	341.2	452.5	575.0	676.8	763.6	850.3	889.9
41.5	72.5°	75.4	145.2	237.6	358.2	463.8	563.7	641.0	705.1	707.0
24.5	75°	37.7	98.0	181.0	277.1	362.0	460.0	529.8	567.5	522.2
15.1	77.5°	22.6	71.6	147.1	222.5	294.1	371.4	411.0	431.7	358.2
11.3	80°	13.2	50.9	115.0	177.2	203.6	273.4	311.1	316.7	239.4
7.5	82.5°	9.4	37.7	90.5	130.1	124.4	192.3	233.8	226.2	152.7
5.7	85°	5.7	26.4	56.6	81.1	75.4	126.3	135.7	139.5	88.6
3.8	87.5°	3.8	15.1	30.2	43.4	35.8	54.7	54.7	66.0	43.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°

10188.3
9935.6
9977.1
9856.5
9690.5
9486.9
9247.5
8960.9
8578.2
8206.8
7741.1
7326.4
6836.2
6364.8
5844.5
5437.3
4930.1
4483.3
4040.2
3612.3
3205.0
2816.7
2426.4
2085.2
1777.9
1485.6
1248.1
1055.8
874.8
690.0
488.3
345.0
224.4
141.4
81.1
37.7
0.0

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