

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: P636726

Luminaire Tested: **IFLD-M-SA4D-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636726
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15234.3 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 249.7
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

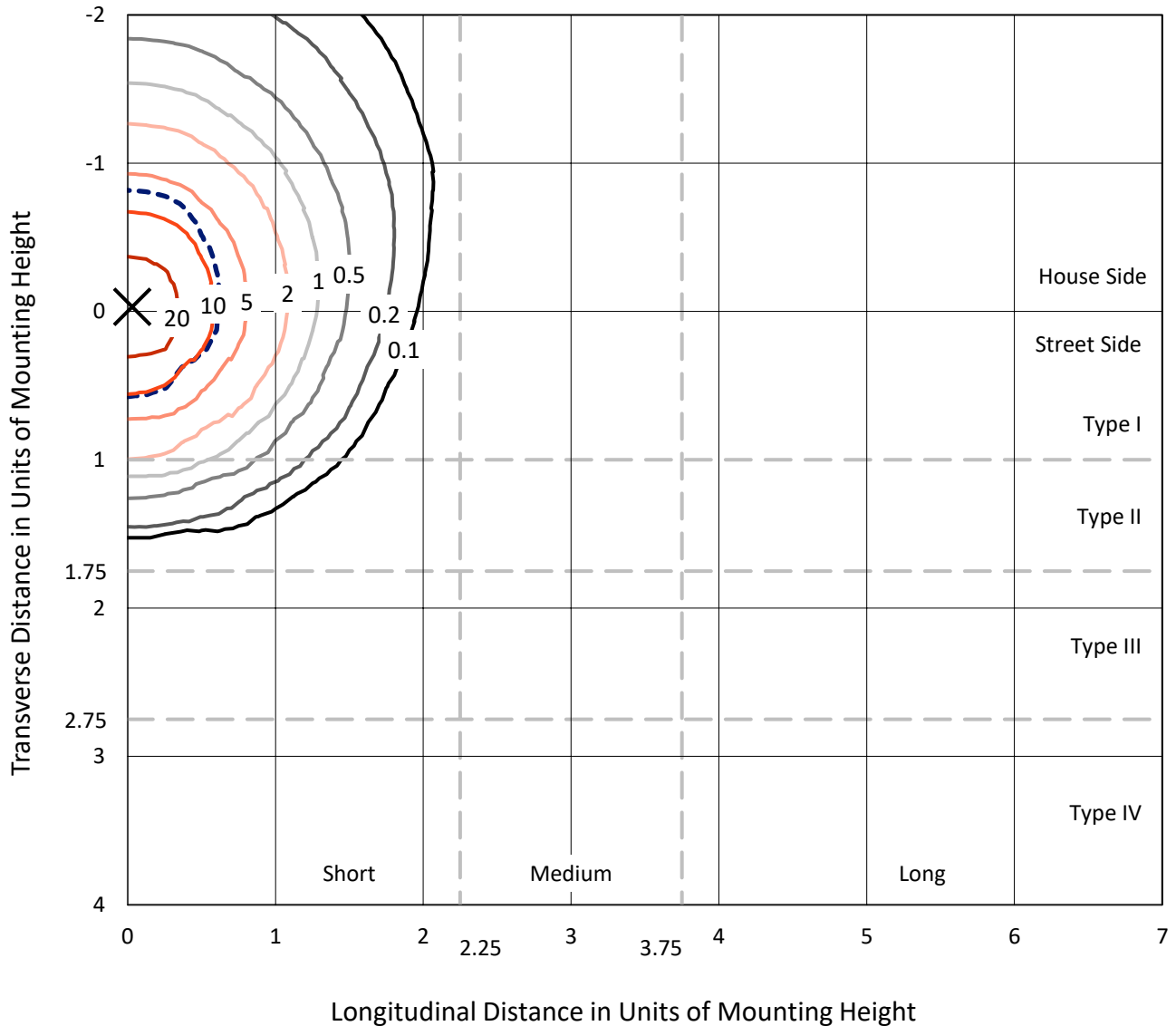




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Iso-Footcandle Lines of Horizontal Illumination

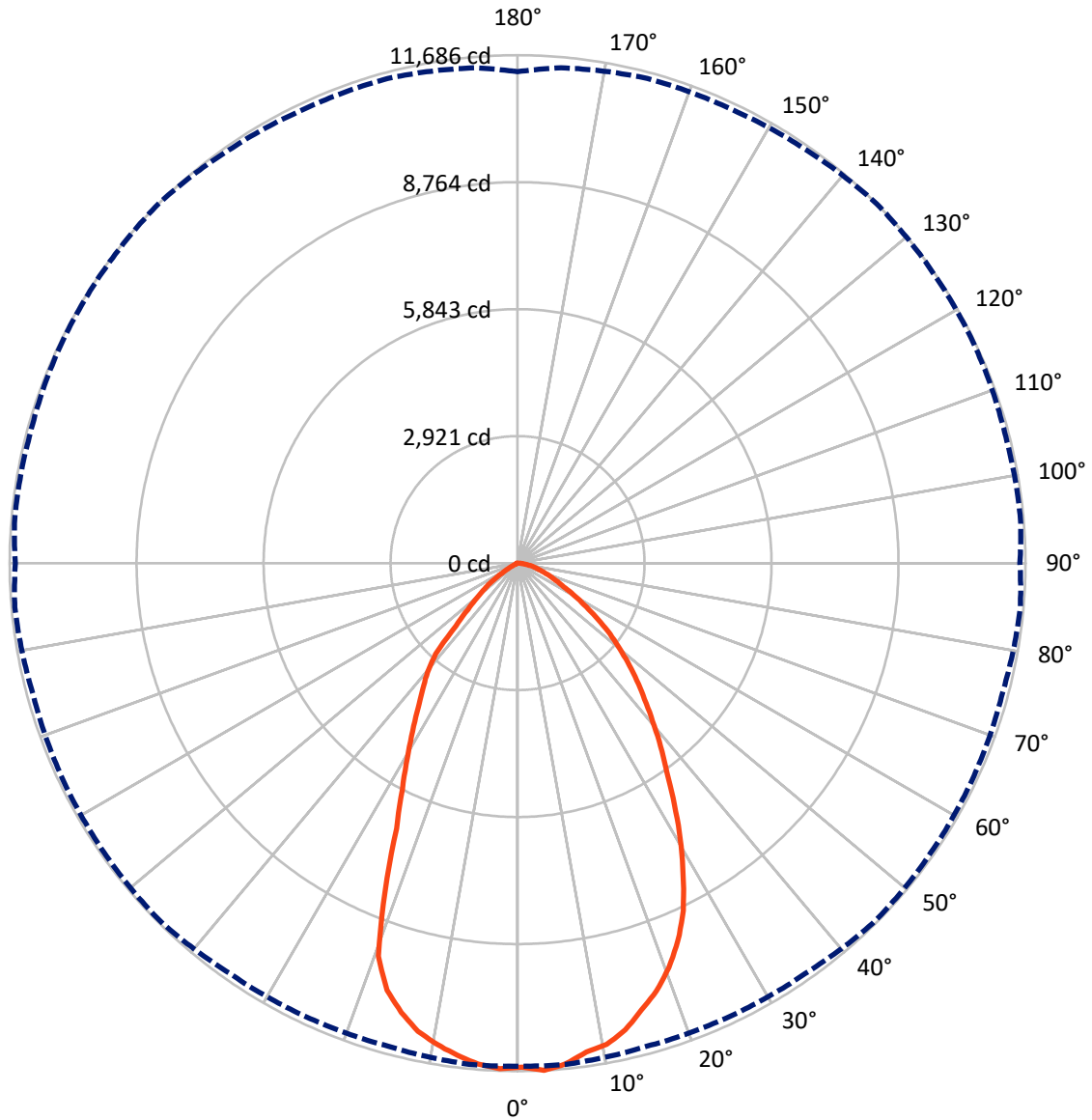
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29 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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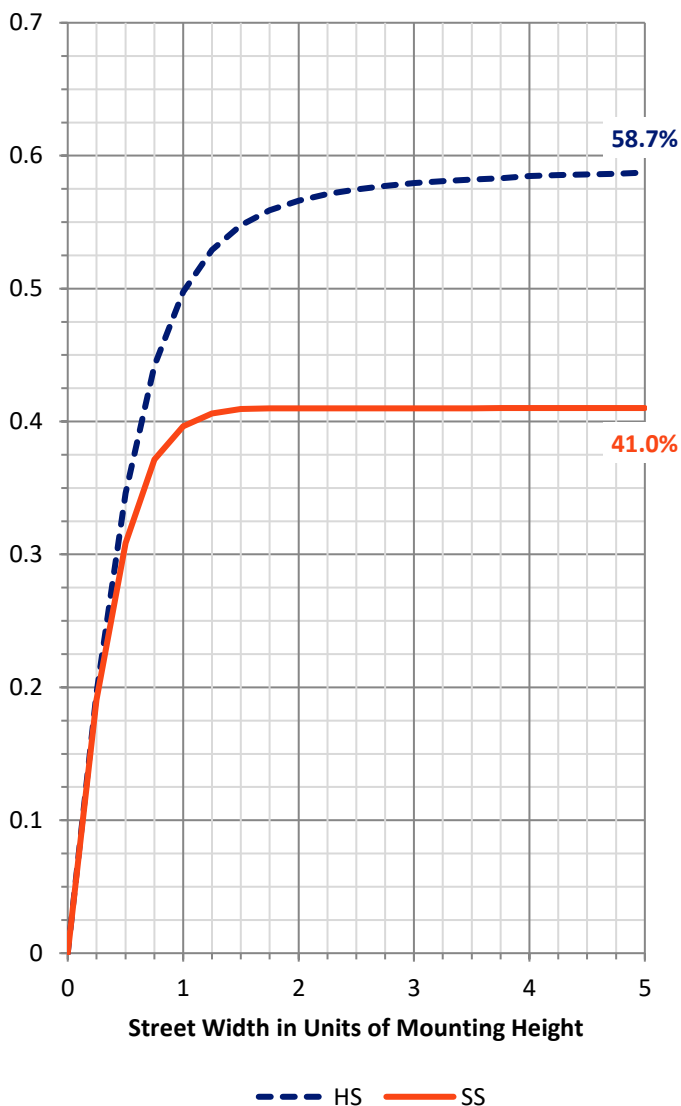
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9022.6	0.0	9022.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6211.8	0.0	6211.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	15234.3	0.0	15234.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.3	7.1
10°-20°	2915.6	19.1
20°-30°	3555.7	23.3
30°-40°	3246.3	21.3
40°-50°	2346.0	15.4
50°-60°	1281.0	8.4
60°-70°	529.6	3.5
70°-80°	214.5	1.4
80°-90°	58.3	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°	15234.3	100.0
0°-180°	15234.3	100.0



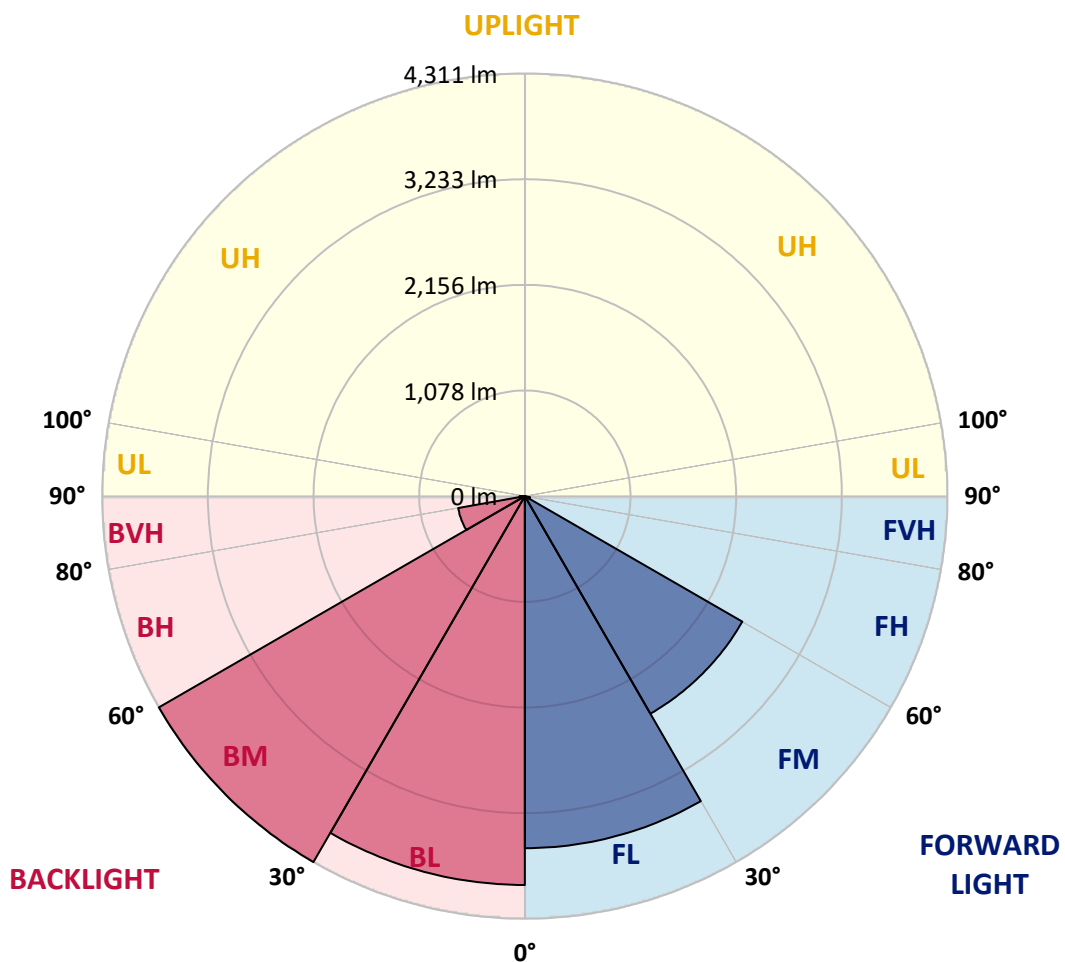
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3591.3	23.6			
FM (30°-60°)	2562.1	16.8			
FH (60°-80°)	53.7	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3967.2	26.0	B4/5000		
BM (30°-60°)	4311.2	28.3	B3/5000		
BH (60°-80°)	690.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	53.7	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°	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3
2.5°	11571.8	11586.9	11505.3	11513.9	11528.9	11638.3	11610.5	11584.7	11548.2	11610.5
5°	11556.8	11565.4	11479.6	11449.6	11462.4	11561.1	11471.0	11471.0	11462.4	11451.7
7.5°	11441.0	11445.3	11378.8	11325.1	11359.5	11404.5	11338.0	11370.2	11323.0	11359.5
10°	11267.2	11239.3	11159.9	11144.9	11183.5	11226.4	11181.4	11211.4	11168.5	11196.4
12.5°	11011.9	10969.0	10904.6	10885.3	10951.8	11009.8	10973.3	10956.1	10900.4	10969.0
15°	10027.2	9995.0	10140.9	10396.2	10625.8	10675.1	10636.5	10653.6	10537.8	10557.1
17.5°	8253.0	8193.0	8349.6	8954.6	9817.0	10271.8	10237.5	10125.9	9954.3	9992.9
20°	7500.0	7482.9	7465.7	7609.4	8212.3	9591.7	9638.9	9355.7	9111.2	9057.5
22.5°	7075.3	7068.8	7051.7	7083.8	7242.6	8128.6	8669.2	8407.5	8244.5	8229.4
25°	6687.0	6676.2	6624.7	6665.5	6665.5	6717.0	7409.9	7568.7	7424.9	7407.8
27.5°	6292.2	6272.9	6264.3	6283.6	6184.9	5837.4	6013.3	6787.8	6712.7	6717.0
30°	5865.3	5858.9	5835.3	5876.0	5571.4	5140.2	5028.6	6079.8	6094.8	6090.6
32.5°	5230.3	5258.2	5365.4	5410.5	4908.5	4552.4	4365.7	5260.3	5567.1	5560.7
35°	3799.4	3799.4	4149.0	4799.1	4301.4	4033.2	3932.4	4460.1	5045.8	5067.2
37.5°	3123.6	3134.3	3203.0	3499.0	3711.4	3617.0	3587.0	3754.3	4376.4	4410.8
40°	2810.4	2810.4	2810.4	2688.1	2681.6	3258.7	3241.6	3187.9	3780.0	3855.1
42.5°	2525.0	2531.5	2535.8	2226.8	2055.2	2816.8	2778.2	2696.7	3245.9	3333.8
45°	2231.1	2241.9	2254.7	1862.1	1787.0	2027.3	2351.3	2261.2	2718.1	2831.8
47.5°	1362.3	1379.4	1671.2	1579.0	1587.5	1563.9	1917.9	1902.9	2229.0	2389.9
50°	920.3	926.8	954.7	1001.9	1362.3	1229.3	1358.0	1574.7	1692.7	1937.2
52.5°	772.3	783.0	714.4	650.0	894.6	961.1	948.2	1169.2	1216.4	1518.9
55°	542.8	577.1	544.9	538.5	508.4	746.6	718.7	898.9	928.9	1154.2
57.5°	55.8	64.4	111.6	401.2	332.5	422.6	512.7	658.6	688.6	851.7
60°	4.3	4.3	10.7	55.8	242.4	253.1	354.0	405.5	463.4	594.3
62.5°	0.0	2.1	4.3	8.6	38.6	135.2	178.1	212.4	278.9	384.0
65°	0.0	0.0	2.1	6.4	8.6	51.5	68.7	111.6	152.3	238.1
67.5°	0.0	0.0	2.1	4.3	6.4	12.9	23.6	40.8	81.5	135.2
70°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	25.7	36.5	72.9
72.5°	0.0	0.0	2.1	2.1	4.3	10.7	12.9	17.2	25.7	36.5
75°	0.0	0.0	2.1	2.1	6.4	12.9	10.7	12.9	17.2	23.6
77.5°	0.0	0.0	2.1	4.3	6.4	12.9	10.7	12.9	12.9	15.0
80°	0.0	0.0	2.1	4.3	8.6	15.0	12.9	12.9	10.7	10.7
82.5°	0.0	0.0	2.1	6.4	8.6	19.3	19.3	17.2	8.6	6.4
85°	0.0	0.0	4.3	8.6	12.9	21.5	21.5	17.2	6.4	4.3
87.5°	0.0	0.0	4.3	6.4	10.7	15.0	21.5	17.2	6.4	2.1
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°
11593.3	0°	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3	11593.3
11556.8	2.5°	11614.7	11601.9	11644.8	11661.9	11685.5	11595.4	11539.7	11541.8	11438.8
11426.0	5°	11494.6	11496.8	11552.5	11548.2	11571.8	11522.5	11501.0	11464.6	11374.5
11260.8	7.5°	11342.3	11323.0	11376.6	11417.4	11357.3	11391.6	11342.3	11359.5	11305.8
11114.9	10°	11224.3	11179.2	11228.6	11256.5	11258.6	11224.3	11177.1	11132.1	11112.7
10887.5	12.5°	10962.6	10904.6	10988.3	11026.9	11020.5	10954.0	10900.4	10911.1	10848.9
10488.5	15°	10602.2	10604.3	10664.4	10700.8	10666.5	10651.5	10655.8	10630.0	10576.4
9937.1	17.5°	10050.8	10083.0	10241.7	10329.7	10349.0	10319.0	10304.0	10273.9	10220.3
9057.5	20°	9132.6	9325.7	9608.9	9881.3	9935.0	9926.4	9872.8	9859.9	9829.8
8186.5	22.5°	8326.0	8469.7	8797.9	9222.7	9441.5	9463.0	9398.6	9379.3	9347.1
7407.8	25°	7491.4	7645.9	7942.0	8403.2	8855.9	8948.1	8937.4	8879.5	8845.1
6717.0	27.5°	6787.8	6942.2	7210.4	7626.6	8111.4	8407.5	8435.4	8343.1	8341.0
6101.3	30°	6152.8	6365.2	6569.0	6907.9	7377.7	7821.8	7869.0	7804.7	7811.1
5537.1	32.5°	5655.1	5831.0	6004.7	6232.1	6622.6	7139.6	7324.1	7264.0	7240.4
5067.2	35°	5146.6	5266.8	5444.8	5652.9	5918.9	6431.7	6751.3	6706.3	6682.7
4432.2	37.5°	4567.4	4773.3	4902.1	5135.9	5344.0	5751.6	6202.1	6195.7	6146.3
3891.6	40°	3973.1	4189.8	4385.0	4621.0	4781.9	5105.9	5605.7	5603.6	5610.0
3331.7	42.5°	3434.7	3634.2	3870.2	4127.6	4282.1	4518.0	5054.4	5084.4	5120.9
2870.4	45°	2947.7	3127.9	3346.7	3659.9	3846.6	3981.7	4458.0	4595.3	4593.1
2458.5	47.5°	2510.0	2679.5	2864.0	3168.6	3406.8	3529.0	3923.8	4119.0	4106.1
2016.6	50°	2106.7	2256.9	2450.0	2670.9	2990.6	3097.8	3391.7	3649.2	3629.9
1606.8	52.5°	1694.8	1902.9	2065.9	2267.6	2604.4	2709.5	2936.9	3187.9	3172.9
1205.7	55°	1321.5	1523.2	1720.5	1894.3	2177.5	2334.1	2497.1	2754.6	2750.3
943.9	57.5°	999.7	1220.7	1407.3	1572.5	1797.8	1990.9	2121.7	2355.6	2385.6
645.7	60°	740.1	909.6	1111.3	1295.8	1473.8	1673.3	1761.3	1990.9	2003.7
441.9	62.5°	504.1	690.8	888.2	1055.5	1188.5	1394.5	1473.8	1662.6	1686.2
283.2	65°	349.7	469.8	695.1	815.2	978.3	1154.2	1233.6	1383.7	1430.9
163.0	67.5°	231.7	334.7	542.8	652.2	813.1	933.2	1034.0	1156.3	1207.8
103.0	70°	126.6	246.7	388.3	514.9	654.3	770.2	868.9	967.5	1012.6
47.2	72.5°	85.8	165.2	270.3	407.6	527.7	641.4	729.4	802.3	804.5
27.9	75°	42.9	111.6	206.0	315.4	411.9	523.5	602.8	645.7	594.3
17.2	77.5°	25.7	81.5	167.3	253.1	334.7	422.6	467.7	491.3	407.6
12.9	80°	15.0	57.9	130.9	201.7	231.7	311.1	354.0	360.4	272.5
8.6	82.5°	10.7	42.9	103.0	148.0	141.6	218.8	266.0	257.4	173.8
6.4	85°	6.4	30.0	64.4	92.2	85.8	143.7	154.5	158.8	100.8
4.3	87.5°	4.3	17.2	34.3	49.3	40.8	62.2	62.2	75.1	49.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11593.3
11305.8
11353.0
11215.7
11026.9
10795.2
10522.8
10196.7
9761.2
9338.6
8808.7
8336.7
7778.9
7242.6
6650.5
6187.1
5610.0
5101.6
4597.4
4110.4
3647.0
3205.1
2761.0
2372.7
2023.0
1690.5
1420.2
1201.4
995.4
785.2
555.6
392.6
255.3
160.9
92.2
42.9
0.0

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