

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: P636720

Luminaire Tested: **IFLD-S-SA6C-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636720
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20234.5 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

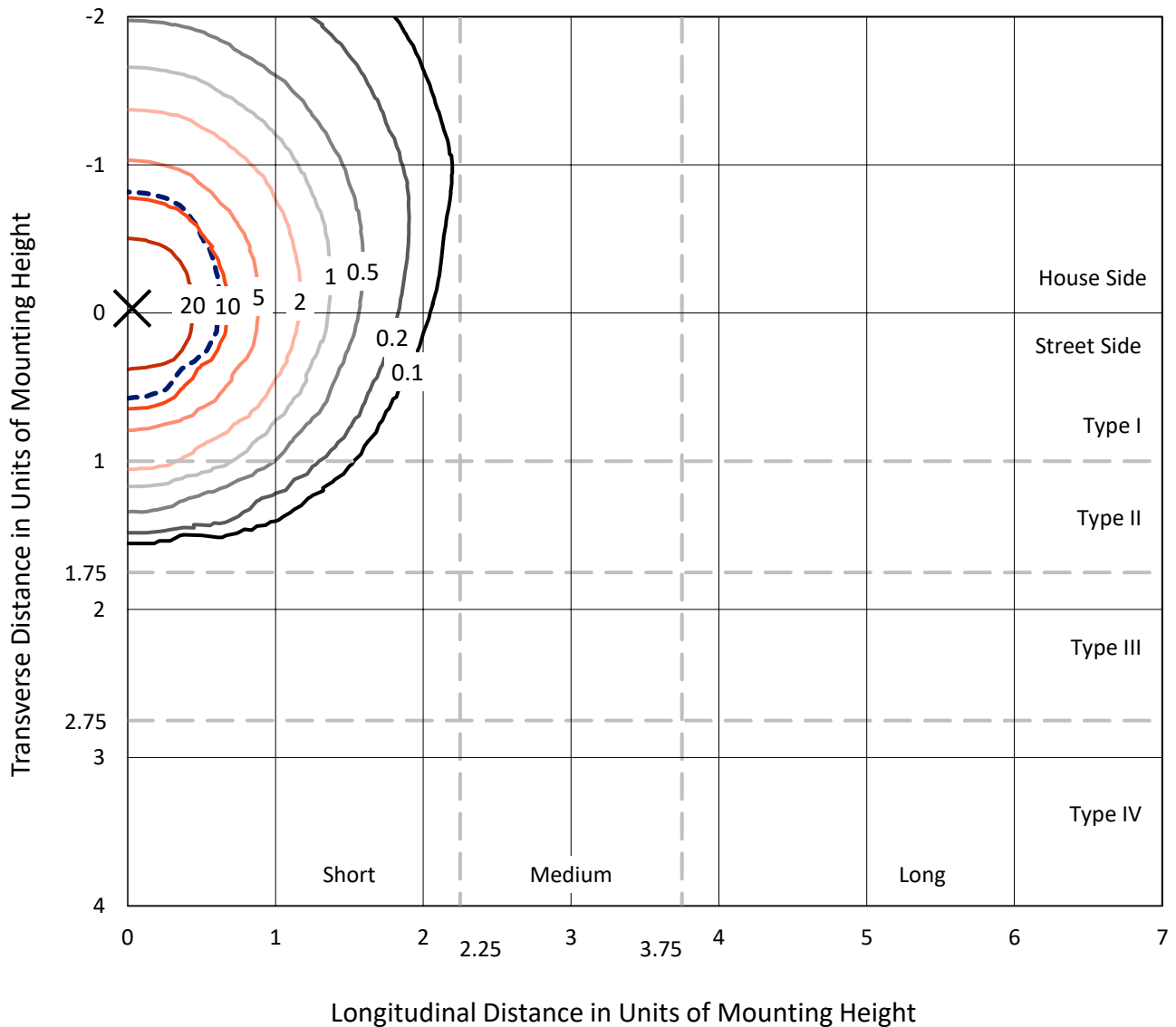
Input Watts (W): 321.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

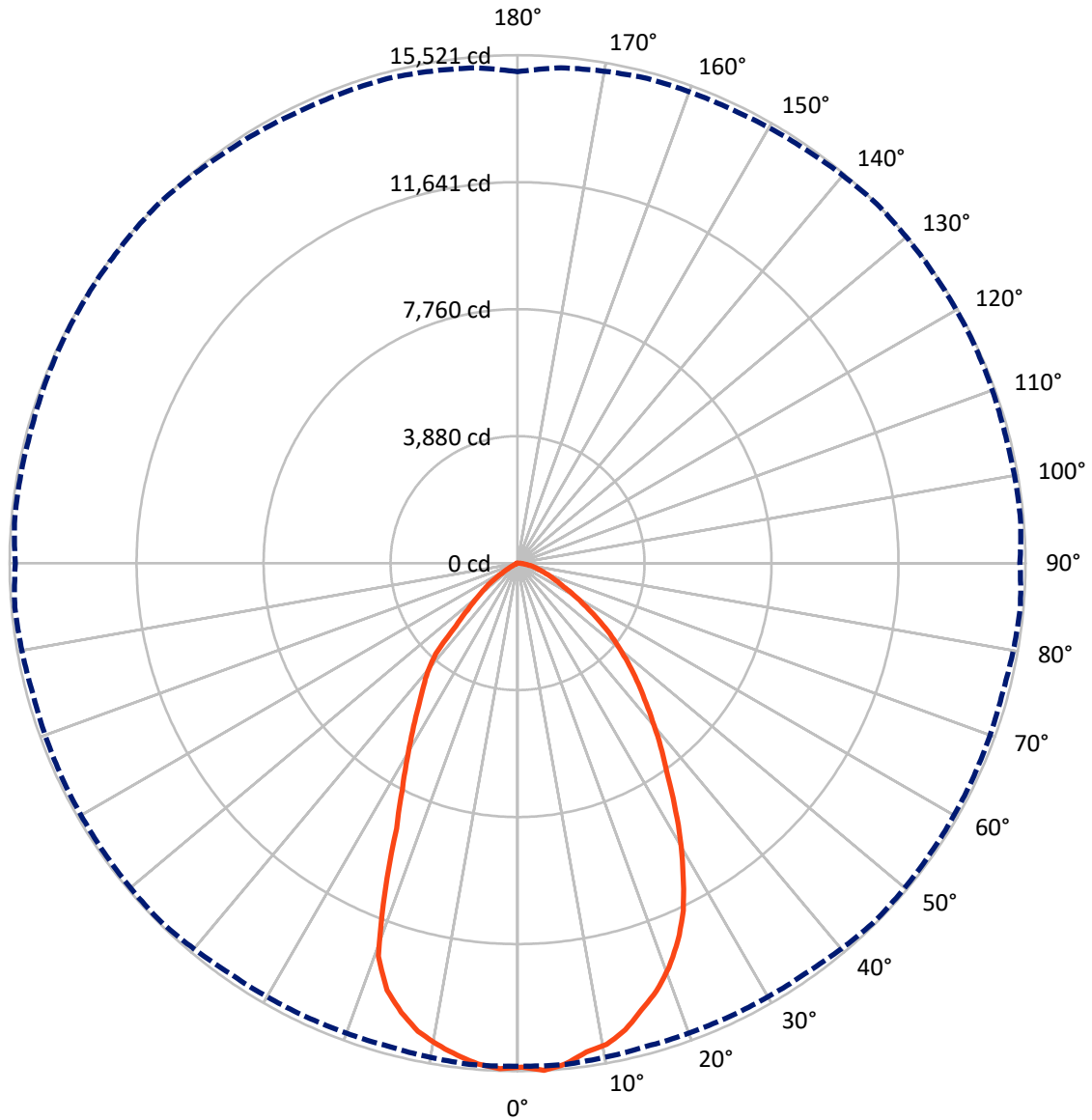
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.5 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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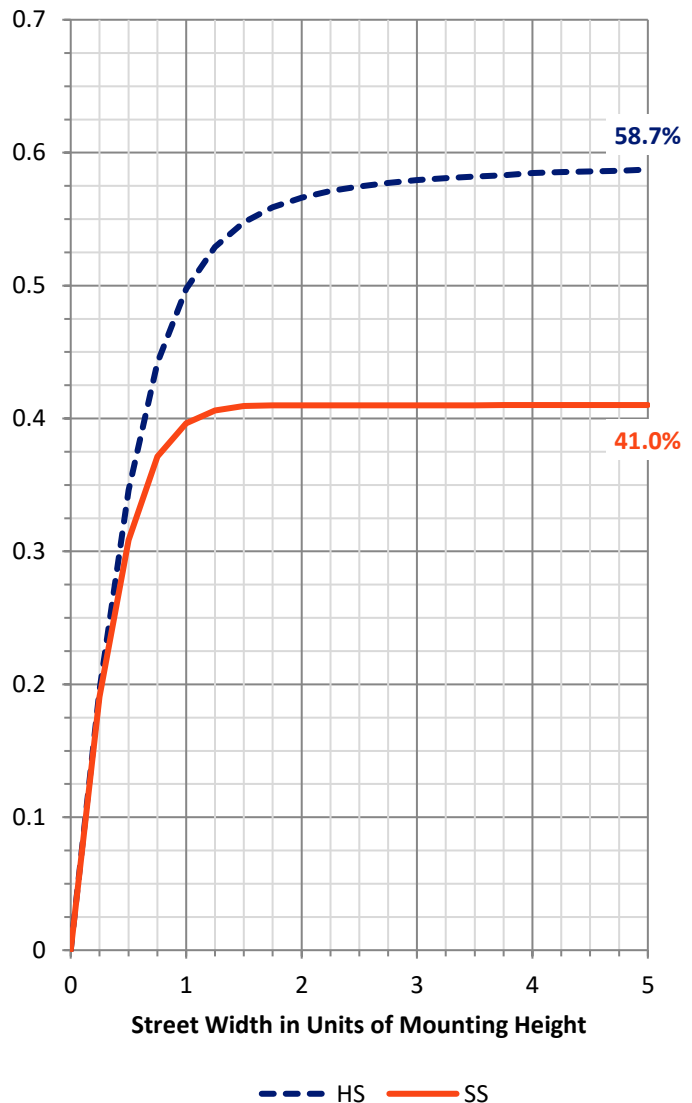
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11983.9	0.0	11983.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8250.6	0.0	8250.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	20234.5	0.0	20234.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1444.1	7.1
10°-20°	3872.5	19.1
20°-30°	4722.7	23.3
30°-40°	4311.8	21.3
40°-50°	3116.0	15.4
50°-60°	1701.4	8.4
60°-70°	703.5	3.5
70°-80°	284.9	1.4
80°-90°	77.5	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°	20234.5	100.0
0°-180°	20234.5	100.0



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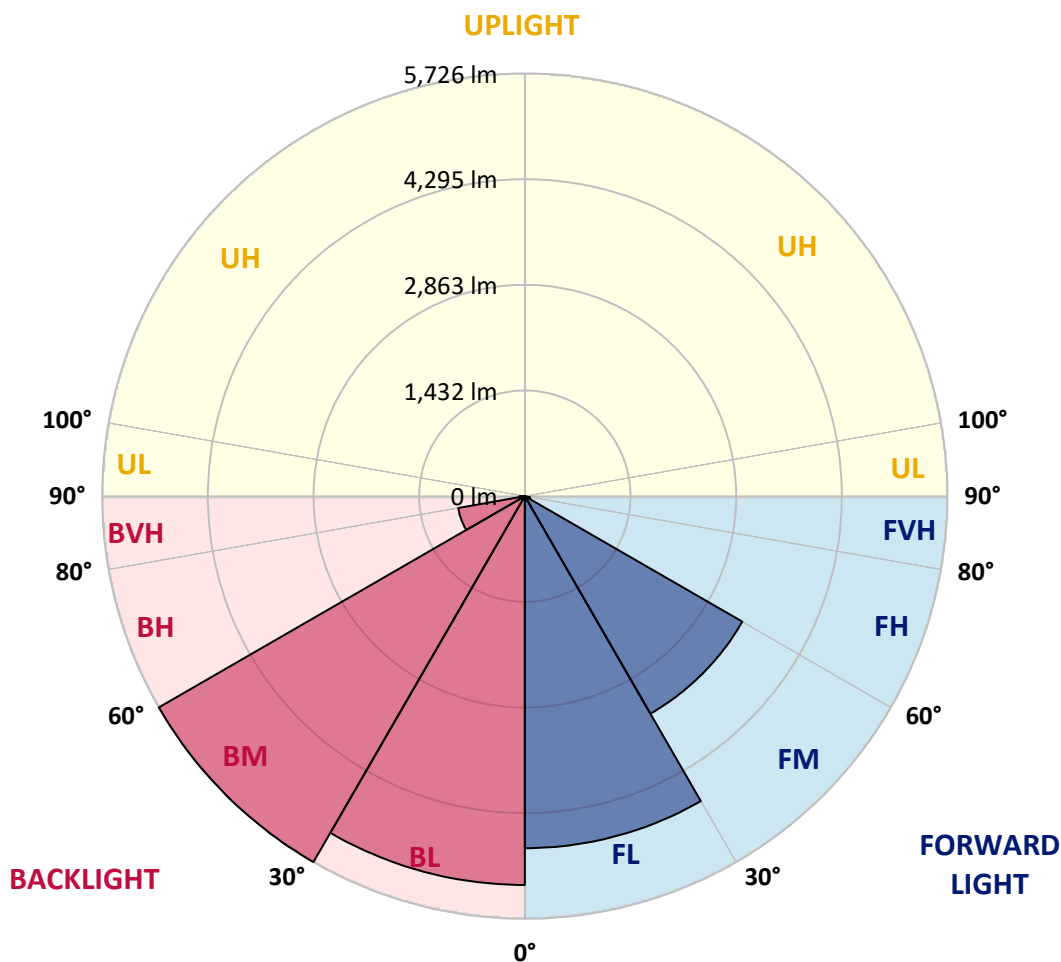
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4770.0	23.6			
FM (30°-60°)	3403.1	16.8			
FH (60°-80°)	71.3	0.4			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	5269.4	26.0	B5		
BM (30°-60°)	5726.2	28.3	B4/8500		
BH (60°-80°)	917.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	71.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4
2.5°	15369.9	15389.9	15281.6	15293.0	15312.9	15458.2	15421.2	15387.0	15338.6	15421.2
5°	15350.0	15361.4	15247.4	15207.5	15224.6	15355.7	15236.0	15236.0	15224.6	15210.3
7.5°	15196.1	15201.8	15113.5	15042.2	15087.8	15147.7	15059.3	15102.1	15039.4	15087.8
10°	14965.3	14928.2	14822.8	14802.9	14854.2	14911.1	14851.3	14891.2	14834.2	14871.3
12.5°	14626.2	14569.2	14483.7	14458.1	14546.4	14623.4	14574.9	14552.1	14478.0	14569.2
15°	13318.3	13275.6	13469.3	13808.4	14113.3	14178.8	14127.5	14150.3	13996.5	14022.1
17.5°	10961.8	10882.0	11090.0	11893.6	13039.1	13643.1	13597.6	13449.4	13221.4	13272.7
20°	9961.7	9938.9	9916.1	10107.0	10907.7	12739.9	12802.6	12426.4	12101.6	12030.4
22.5°	9397.5	9388.9	9366.1	9408.9	9619.7	10796.5	11514.6	11167.0	10950.4	10930.5
25°	8881.7	8867.5	8799.1	8853.2	8853.2	8921.6	9842.0	10052.8	9861.9	9839.1
27.5°	8357.4	8331.8	8320.4	8346.0	8215.0	7753.3	7987.0	9015.6	8915.9	8921.6
30°	7790.4	7781.8	7750.5	7804.6	7400.0	6827.3	6679.1	8075.3	8095.3	8089.6
32.5°	6946.9	6984.0	7126.5	7186.3	6519.5	6046.5	5798.6	6986.8	7394.3	7385.8
35°	5046.4	5046.4	5510.8	6374.2	5713.1	5357.0	5223.0	5924.0	6701.9	6730.4
37.5°	4148.8	4163.0	4254.2	4647.4	4929.5	4804.2	4764.3	4986.5	5812.9	5858.5
40°	3732.8	3732.8	3732.8	3570.4	3561.8	4328.3	4305.5	4234.3	5020.7	5120.5
42.5°	3353.8	3362.3	3368.0	2957.7	2729.8	3741.3	3690.0	3581.8	4311.2	4428.0
45°	2963.4	2977.7	2994.8	2473.3	2373.6	2692.7	3123.0	3003.3	3610.2	3761.3
47.5°	1809.4	1832.2	2219.7	2097.2	2108.6	2077.2	2547.4	2527.5	2960.6	3174.3
50°	1222.4	1231.0	1268.0	1330.7	1809.4	1632.7	1803.7	2091.5	2248.2	2573.0
52.5°	1025.8	1040.0	948.9	863.4	1188.2	1276.6	1259.5	1552.9	1615.6	2017.4
55°	720.9	766.5	723.8	715.2	675.3	991.6	954.6	1193.9	1233.8	1533.0
57.5°	74.1	85.5	148.2	532.8	441.7	561.3	681.0	874.8	914.7	1131.2
60°	5.7	5.7	14.2	74.1	322.0	336.2	470.2	538.5	615.5	789.3
62.5°	0.0	2.8	5.7	11.4	51.3	179.5	236.5	282.1	370.4	510.1
65°	0.0	0.0	2.8	8.5	11.4	68.4	91.2	148.2	202.3	316.3
67.5°	0.0	0.0	2.8	5.7	8.5	17.1	31.3	54.1	108.3	179.5
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.8	34.2	48.4	96.9
72.5°	0.0	0.0	2.8	2.8	5.7	14.2	17.1	22.8	34.2	48.4
75°	0.0	0.0	2.8	2.8	8.5	17.1	14.2	17.1	22.8	31.3
77.5°	0.0	0.0	2.8	5.7	8.5	17.1	14.2	17.1	17.1	19.9
80°	0.0	0.0	2.8	5.7	11.4	19.9	17.1	17.1	14.2	14.2
82.5°	0.0	0.0	2.8	8.5	11.4	25.6	25.6	22.8	11.4	8.5
85°	0.0	0.0	5.7	11.4	17.1	28.5	28.5	22.8	8.5	5.7
87.5°	0.0	0.0	5.7	8.5	14.2	19.9	28.5	22.8	8.5	2.8
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°
15398.4	0°	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4	15398.4
15350.0	2.5°	15426.9	15409.8	15466.8	15489.6	15520.9	15401.3	15327.2	15330.0	15193.2
15176.1	5°	15267.3	15270.2	15344.3	15338.6	15369.9	15304.4	15275.9	15227.4	15107.8
14956.7	7.5°	15065.0	15039.4	15110.6	15164.7	15085.0	15130.6	15065.0	15087.8	15016.6
14763.0	10°	14908.3	14848.5	14914.0	14951.0	14953.9	14908.3	14845.6	14785.8	14760.1
14460.9	12.5°	14560.7	14483.7	14594.9	14646.1	14637.6	14549.3	14478.0	14492.3	14409.6
13930.9	15°	14082.0	14084.8	14164.6	14213.0	14167.4	14147.5	14153.2	14119.0	14047.8
13198.6	17.5°	13349.7	13392.4	13603.3	13720.1	13745.7	13705.8	13685.9	13646.0	13574.8
12030.4	20°	12130.1	12386.5	12762.7	13124.5	13195.8	13184.4	13113.1	13096.1	13056.2
10873.5	22.5°	11058.7	11249.6	11685.6	12249.8	12540.4	12568.9	12483.4	12457.8	12415.0
9839.1	25°	9950.3	10155.4	10548.6	11161.3	11762.5	11885.0	11870.8	11793.9	11748.3
8921.6	27.5°	9015.6	9220.8	9577.0	10129.8	10773.8	11167.0	11204.0	11081.5	11078.6
8103.8	30°	8172.2	8454.3	8725.0	9175.2	9799.2	10389.1	10451.8	10366.3	10374.8
7354.4	32.5°	7511.1	7744.8	7975.6	8277.6	8796.2	9483.0	9728.0	9648.2	9616.9
6730.4	35°	6835.8	6995.4	7231.9	7508.3	7861.6	8542.6	8967.2	8907.4	8876.0
5887.0	37.5°	6066.5	6340.0	6511.0	6821.6	7098.0	7639.4	8237.7	8229.2	8163.7
5168.9	40°	5277.2	5565.0	5824.3	6137.7	6351.4	6781.7	7445.6	7442.8	7451.3
4425.2	42.5°	4562.0	4827.0	5140.4	5482.3	5687.5	6000.9	6713.3	6753.2	6801.6
3812.6	45°	3915.1	4154.5	4445.1	4861.2	5109.1	5288.6	5921.1	6103.5	6100.7
3265.5	47.5°	3333.9	3559.0	3804.0	4208.6	4524.9	4687.3	5211.6	5470.9	5453.8
2678.5	50°	2798.2	2997.6	3254.1	3547.6	3972.1	4114.6	4505.0	4846.9	4821.3
2134.2	52.5°	2251.1	2527.5	2744.0	3011.9	3459.2	3598.8	3900.9	4234.3	4214.3
1601.4	55°	1755.3	2023.1	2285.3	2516.1	2892.2	3100.2	3316.8	3658.7	3653.0
1253.8	57.5°	1327.8	1621.3	1869.2	2088.6	2387.8	2644.3	2818.1	3128.7	3168.6
857.7	60°	983.1	1208.2	1476.0	1721.1	1957.6	2222.6	2339.4	2644.3	2661.4
587.0	62.5°	669.6	917.5	1179.7	1401.9	1578.6	1852.1	1957.6	2208.3	2239.7
376.1	65°	464.5	624.0	923.2	1082.8	1299.3	1533.0	1638.4	1837.9	1900.6
216.6	67.5°	307.7	444.5	720.9	866.2	1079.9	1239.5	1373.4	1535.9	1604.2
136.8	70°	168.1	327.7	515.7	683.9	869.1	1023.0	1154.0	1285.1	1344.9
62.7	72.5°	114.0	219.4	359.0	541.4	701.0	852.0	968.8	1065.7	1068.5
37.0	75°	57.0	148.2	273.5	418.9	547.1	695.3	800.7	857.7	789.3
22.8	77.5°	34.2	108.3	222.3	336.2	444.5	561.3	621.2	652.5	541.4
17.1	80°	19.9	76.9	173.8	267.8	307.7	413.2	470.2	478.7	361.9
11.4	82.5°	14.2	57.0	136.8	196.6	188.1	290.6	353.3	341.9	230.8
8.5	85°	8.5	39.9	85.5	122.5	114.0	190.9	205.2	210.9	133.9
5.7	87.5°	5.7	22.8	45.6	65.5	54.1	82.6	82.6	99.7	65.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
15398.4
15016.6
15079.3
14896.9
14646.1
14338.4
13976.5
13543.4
12965.0
12403.6
11699.8
11072.9
10332.1
9619.7
8833.3
8217.8
7451.3
6776.0
6106.4
5459.5
4844.1
4257.1
3667.2
3151.5
2687.0
2245.4
1886.3
1595.7
1322.1
1042.9
738.0
521.4
339.1
213.7
122.5
57.0
0.0

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