

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: P637907

Luminaire Tested: **IFLD-S-SA6A-740-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637907
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22758.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

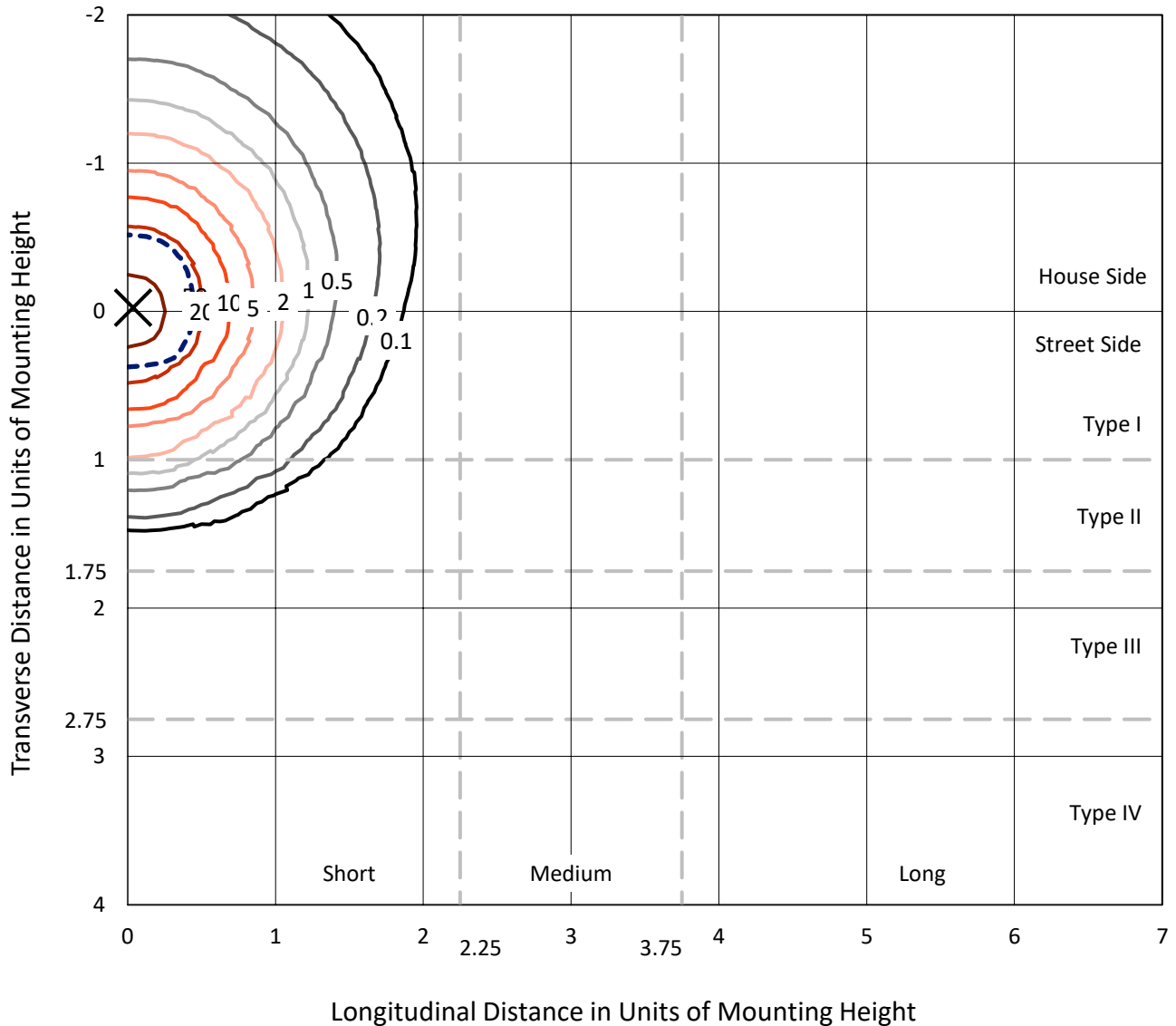
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

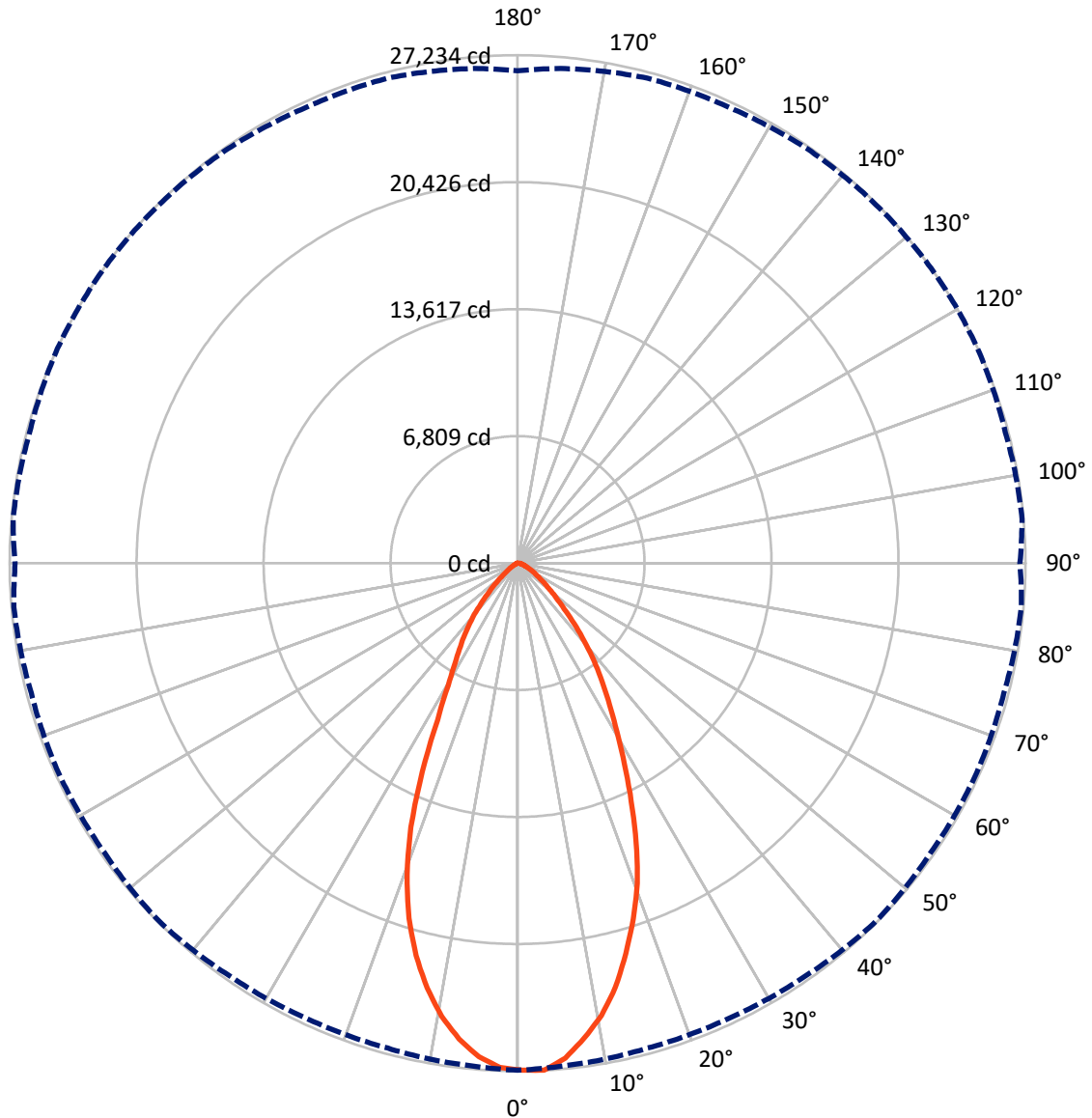
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 68 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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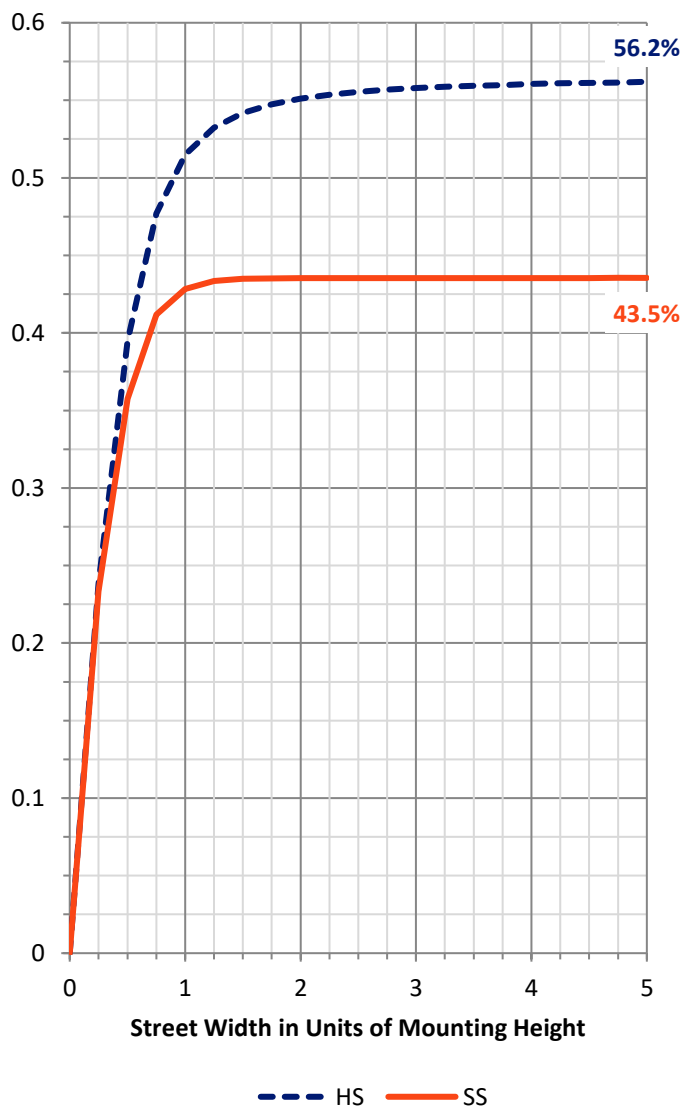
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12913.9	0.0	12913.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9844.3	0.0	9844.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	22758.2	0.0	22758.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2469.0	10.8
10°-20°	5885.6	25.9
20°-30°	5994.3	26.3
30°-40°	4470.0	19.6
40°-50°	2335.2	10.3
50°-60°	982.2	4.3
60°-70°	401.1	1.8
70°-80°	168.8	0.7
80°-90°	52.0	0.2
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°	22758.2	100.0
0°-180°	22758.2	100.0



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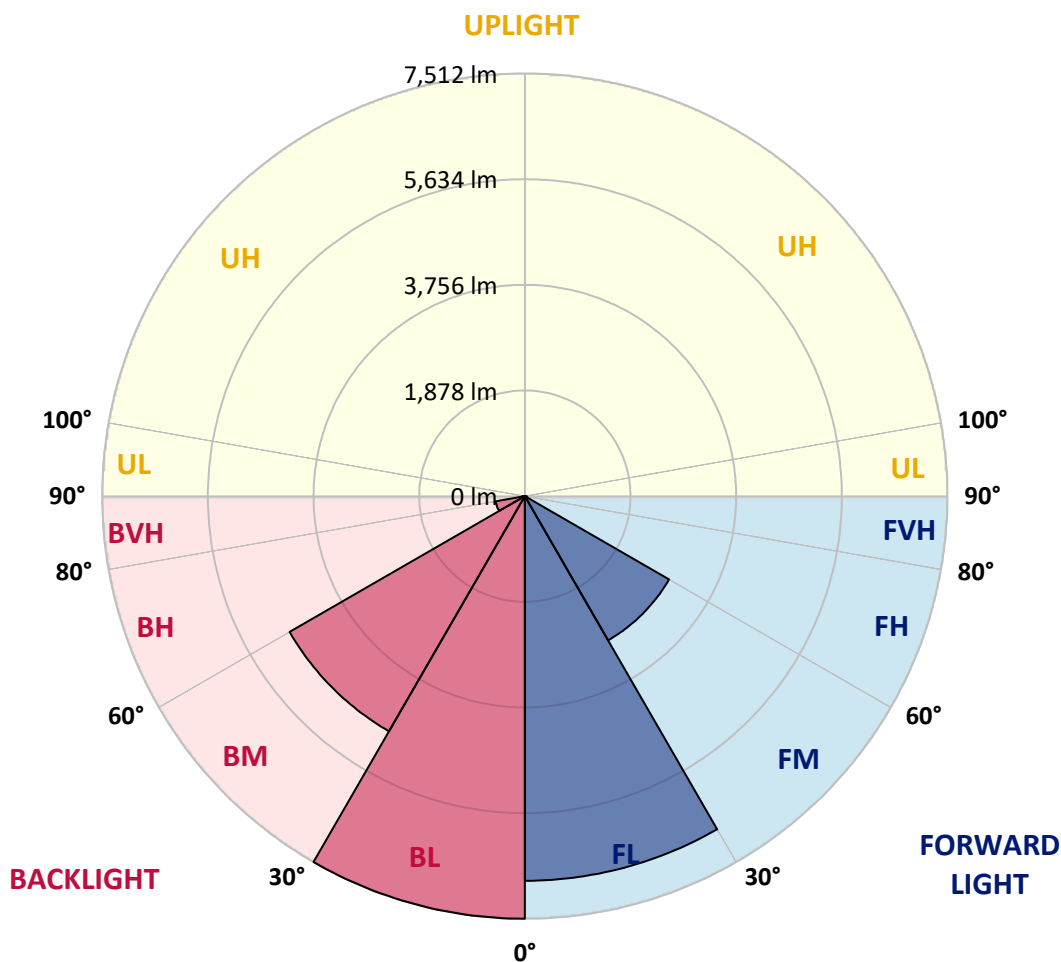
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6836.9	30.0			
FM (30°-60°)	2959.8	13.0			
FH (60°-80°)	42.8	0.2			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	7512.0	33.0	B5		
BM (30°-60°)	4827.6	21.2	B3/5000		
BH (60°-80°)	527.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	47.2	0.2			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°	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6
2.5°	27193.5	27082.4	26924.6	26910.0	26991.8	27170.1	27056.1	27062.0	26991.8	27111.7
5°	26766.7	26661.5	26553.3	26410.0	26529.9	26605.9	26547.4	26483.1	26392.5	26509.4
7.5°	25959.8	25901.4	25740.6	25676.3	25749.4	25834.1	25708.4	25690.9	25565.2	25717.2
10°	24726.2	24702.8	24544.9	24506.9	24571.2	24699.9	24644.3	24632.6	24553.7	24539.1
12.5°	23445.7	23355.1	23159.2	23147.5	23244.0	23436.9	23287.9	23144.6	23188.5	23226.5
15°	20148.1	20051.6	20536.9	21299.9	21700.4	21685.8	21729.7	21557.2	21504.6	21522.1
17.5°	16017.3	15853.6	16029.0	17210.1	19113.2	20218.3	19914.2	19543.0	19344.2	19212.6
20°	13824.8	13833.6	13801.4	14105.4	15292.3	17812.3	17739.2	17023.0	16762.8	16654.6
22.5°	12491.7	12442.0	12371.9	12468.3	12787.0	14266.2	15257.3	14599.5	14508.9	14389.0
25°	11185.0	11185.0	11100.2	11196.6	11287.3	11307.7	12301.7	12570.6	12395.2	12395.2
27.5°	10053.6	9995.1	9957.1	10001.0	9881.1	9305.2	9430.9	10807.8	10688.0	10614.9
30°	8931.0	8913.5	8849.1	8907.6	8463.3	7814.3	7551.2	9121.0	9246.7	9220.4
32.5°	7372.8	7443.0	7729.5	7820.1	7060.0	6536.7	6285.3	7571.6	8074.4	8054.0
35°	5010.7	5069.2	5396.6	6478.3	5852.7	5478.5	5405.4	6022.2	6849.5	6928.5
37.5°	3990.4	3981.7	4075.2	4268.2	4703.8	4613.1	4592.7	4753.5	5586.6	5621.7
40°	3288.8	3277.1	3274.2	3116.4	3008.2	3835.5	3780.0	3683.5	4405.6	4475.7
42.5°	2651.5	2663.2	2672.0	2327.0	2169.2	2958.5	2926.3	2826.9	3455.5	3537.3
45°	2081.5	2078.5	2096.1	1733.6	1689.7	1891.4	2186.7	2107.8	2607.7	2695.4
47.5°	1078.7	1116.7	1353.5	1341.8	1362.3	1341.8	1654.6	1634.2	1961.6	2101.9
50°	725.0	736.7	757.2	760.1	1072.9	988.1	1122.6	1271.7	1374.0	1590.3
52.5°	561.3	570.1	517.4	485.3	657.8	730.9	736.7	879.9	958.9	1178.1
55°	312.8	350.8	377.1	380.0	362.5	540.8	537.9	651.9	713.3	859.5
57.5°	40.9	49.7	76.0	245.6	242.6	301.1	377.1	473.6	508.7	628.5
60°	2.9	5.8	8.8	38.0	160.8	175.4	257.3	295.3	353.7	441.4
62.5°	0.0	0.0	2.9	8.8	32.2	102.3	134.5	154.9	207.6	289.4
65°	0.0	0.0	2.9	5.8	11.7	38.0	52.6	84.8	122.8	178.3
67.5°	0.0	0.0	2.9	5.8	8.8	14.6	23.4	38.0	64.3	108.2
70°	0.0	0.0	2.9	5.8	8.8	11.7	17.5	23.4	35.1	58.5
72.5°	0.0	0.0	2.9	2.9	5.8	14.6	14.6	17.5	23.4	32.2
75°	0.0	0.0	2.9	5.8	8.8	14.6	14.6	14.6	17.5	20.5
77.5°	0.0	0.0	2.9	5.8	8.8	14.6	11.7	14.6	14.6	14.6
80°	0.0	0.0	2.9	5.8	8.8	14.6	17.5	14.6	11.7	11.7
82.5°	0.0	0.0	2.9	8.8	8.8	20.5	20.5	20.5	8.8	8.8
85°	0.0	0.0	5.8	8.8	14.6	23.4	23.4	17.5	8.8	5.8
87.5°	0.0	0.0	2.9	5.8	5.8	11.7	17.5	14.6	5.8	2.9
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°
27190.6	0°	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6	27190.6
26936.3	2.5°	27152.6	27079.5	27216.9	27234.4	27176.0	27102.9	26933.3	26918.7	26623.5
26339.9	5°	26638.1	26518.2	26605.9	26664.4	26643.9	26565.0	26494.8	26430.5	26164.5
25372.2	7.5°	25679.2	25635.3	25676.3	25720.1	25804.9	25720.1	25690.9	25623.7	25360.5
24419.2	10°	24615.1	24533.2	24688.2	24667.7	24644.3	24620.9	24498.1	24509.8	24200.0
23121.2	12.5°	23308.3	23170.9	23320.0	23337.5	23320.0	23238.2	23100.8	23159.2	22875.7
21367.2	15°	21551.3	21536.7	21644.9	21715.1	21764.8	21677.1	21630.3	21659.5	21490.0
19110.3	17.5°	19393.9	19583.9	19937.6	20057.5	20060.4	20151.0	20124.7	20089.6	19963.9
16610.8	20°	16856.4	17221.8	17765.5	18323.9	18484.7	18408.7	18373.6	18437.9	18250.8
14263.3	22.5°	14514.7	14827.5	15459.0	16274.6	16745.3	16792.0	16783.3	16727.7	16654.6
12383.5	25°	12526.8	12804.5	13409.7	14155.1	15058.5	15192.9	15198.8	15181.2	15116.9
10679.2	27.5°	10848.8	11185.0	11518.2	12184.8	13146.6	13702.0	13631.8	13611.4	13588.0
9240.9	30°	9328.6	9752.5	10065.3	10480.4	11342.8	12094.1	12167.2	12132.1	12076.6
8051.1	32.5°	8124.1	8375.6	8773.1	9053.8	9673.6	10524.3	10804.9	10778.6	10728.9
6978.2	35°	7077.6	7177.0	7489.8	7802.6	8214.8	9039.2	9454.3	9395.8	9387.1
5686.0	37.5°	5829.3	6162.5	6335.0	6650.7	6940.2	7580.4	8153.4	8127.1	8130.0
4572.2	40°	4706.7	4899.6	5241.7	5507.7	5773.7	6241.5	6878.8	6896.3	6890.5
3540.2	42.5°	3613.3	3800.4	4160.0	4449.4	4686.2	4975.6	5583.7	5604.2	5630.5
2756.8	45°	2821.1	2940.9	3204.1	3505.2	3756.6	3932.0	4393.9	4525.4	4528.4
2137.0	47.5°	2189.6	2327.0	2514.1	2803.5	3049.1	3174.8	3511.0	3689.3	3680.6
1640.0	50°	1719.0	1844.7	1996.7	2224.7	2490.7	2590.1	2838.6	3014.0	3005.3
1236.6	52.5°	1315.5	1476.3	1610.8	1786.2	2046.4	2131.2	2309.5	2511.2	2482.0
906.3	55°	996.9	1160.6	1286.3	1432.5	1669.3	1777.4	1900.2	2061.0	2066.8
701.6	57.5°	751.3	920.9	1034.9	1184.0	1362.3	1482.2	1575.7	1748.2	1745.3
479.4	60°	537.9	684.1	821.5	976.4	1113.8	1251.2	1315.5	1479.2	1485.1
339.1	62.5°	388.8	526.2	657.8	792.2	915.0	1049.5	1108.0	1236.6	1254.1
222.2	65°	271.9	368.3	520.4	622.7	760.1	859.5	935.5	1046.6	1067.0
131.6	67.5°	175.4	266.0	412.2	502.8	628.5	713.3	792.2	879.9	906.3
84.8	70°	105.2	201.7	307.0	403.4	517.4	593.5	669.5	745.5	760.1
40.9	72.5°	67.2	140.3	222.2	327.4	415.1	497.0	564.2	619.8	575.9
26.3	75°	38.0	96.5	175.4	257.3	336.2	415.1	470.7	499.9	400.5
17.5	77.5°	23.4	70.2	143.2	207.6	260.2	333.3	368.3	385.9	286.5
11.7	80°	14.6	52.6	119.9	169.6	169.6	245.6	286.5	301.1	207.6
8.8	82.5°	11.7	38.0	93.5	128.6	114.0	184.2	225.1	228.0	146.2
5.8	85°	8.8	29.2	58.5	84.8	78.9	128.6	131.6	146.2	96.5
5.8	87.5°	5.8	17.5	35.1	49.7	43.9	61.4	70.2	78.9	52.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
27190.6
26392.5
25951.1
25305.0
24094.7
22793.8
21285.3
19776.8
18116.3
16514.3
14900.6
13450.6
12006.4
10597.3
9290.6
8036.4
6788.1
5542.8
4452.3
3648.4
3005.3
2484.9
2066.8
1739.4
1470.5
1248.3
1061.2
903.3
748.4
535.0
380.0
269.0
192.9
134.5
87.7
46.8
0.0

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