

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: P637885

Luminaire Tested: **IFLD-M-SA4C-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637885
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23645.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

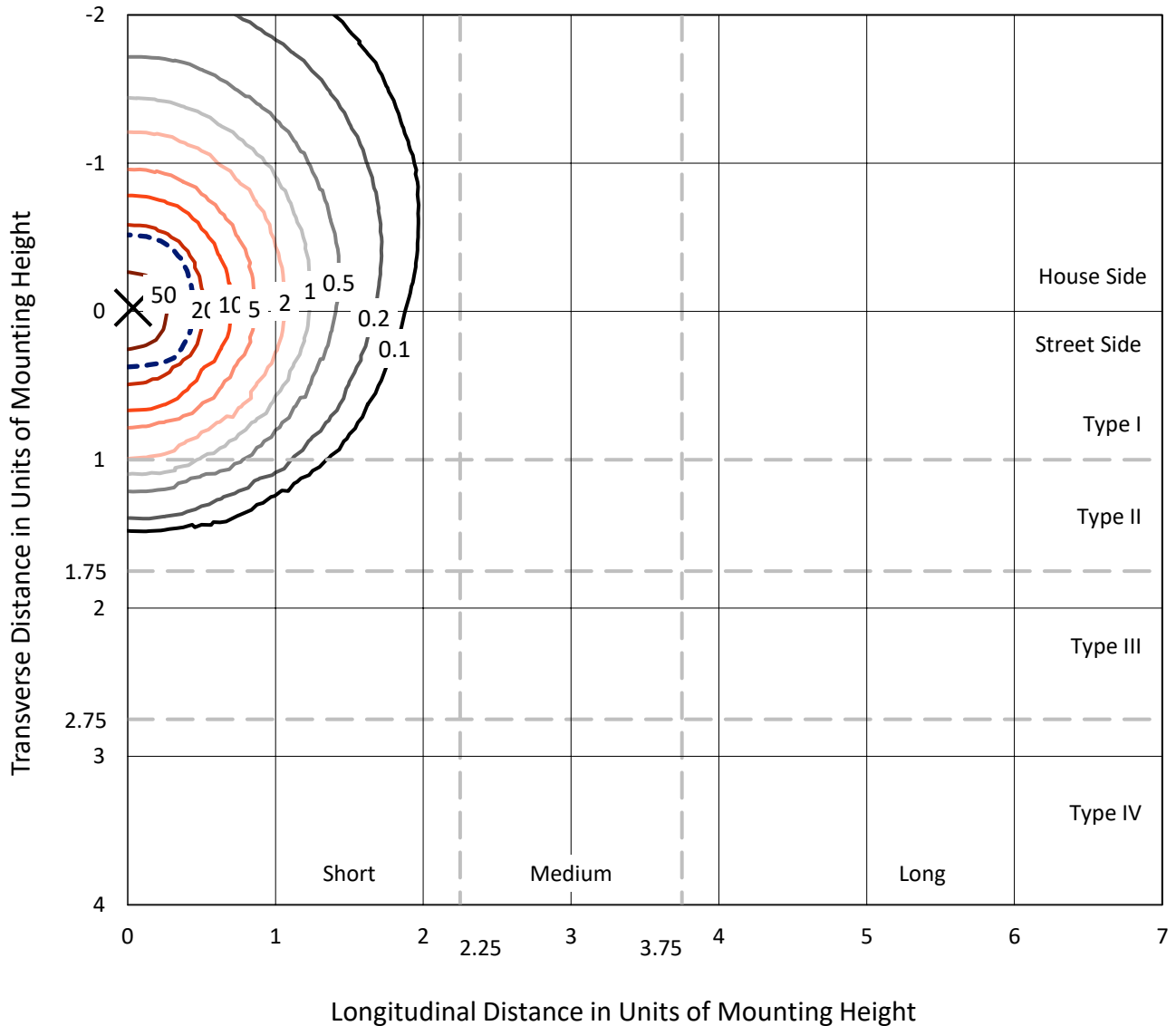
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

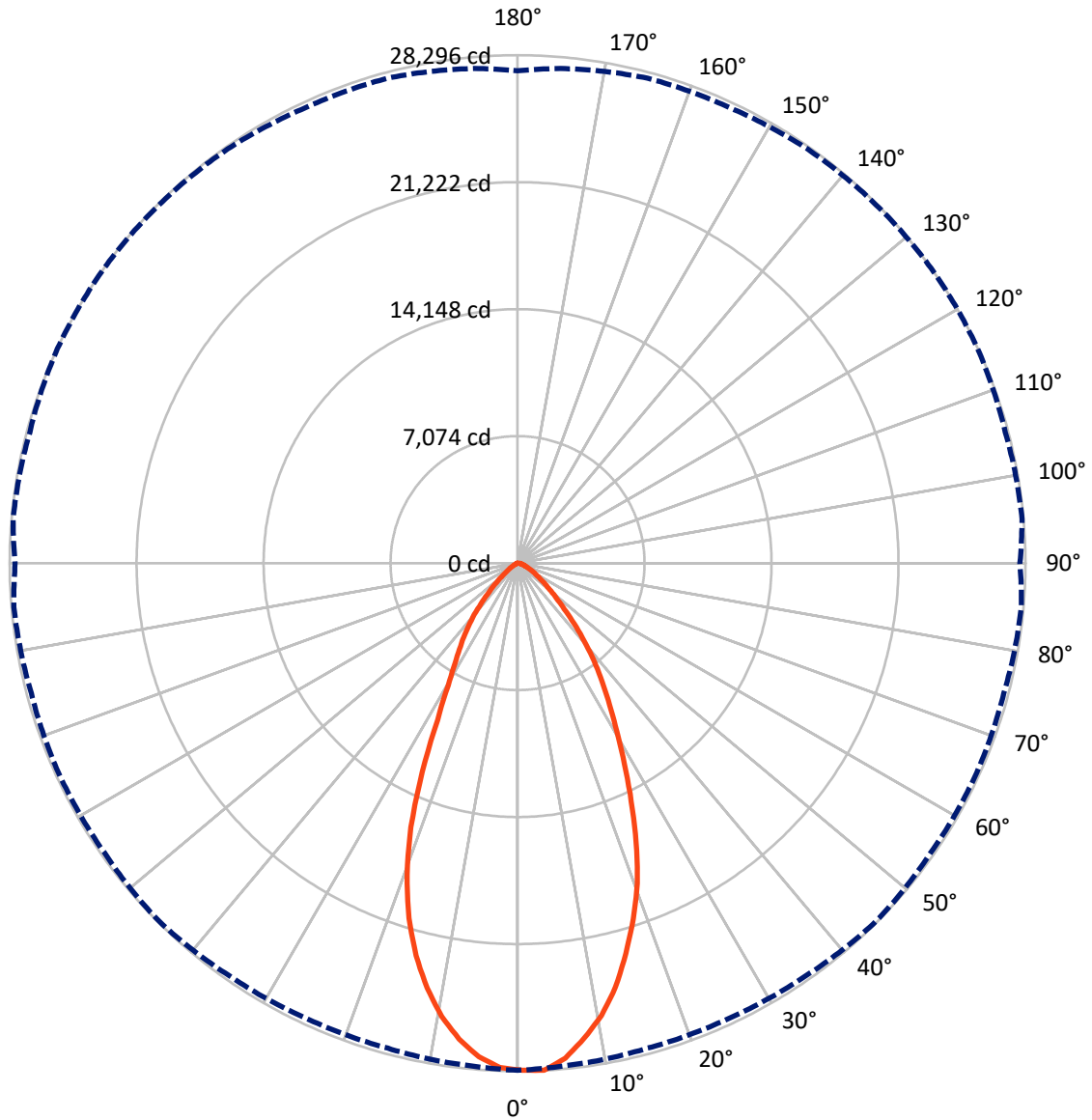
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 70.6 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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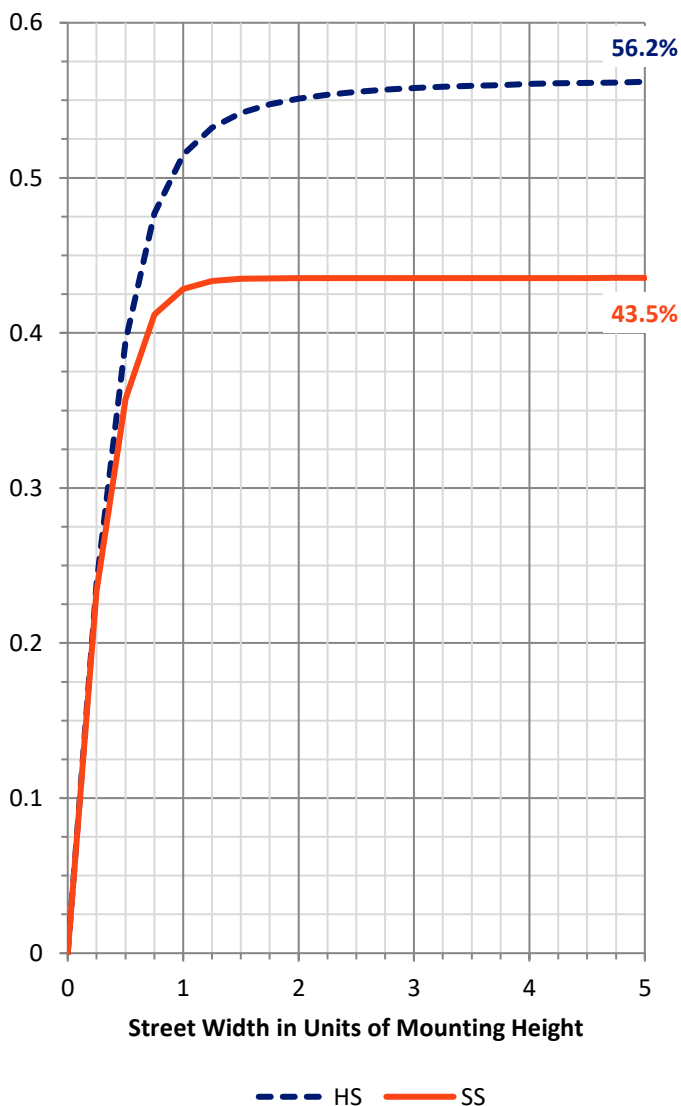
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13417.4	0.0	13417.4
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	10228.1	0.0	10228.1
	% Fixture	43.3	0.0	43.3
Total	Lumens	23645.5	0.0	23645.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2565.3	10.8
10°-20°	6115.0	25.9
20°-30°	6228.0	26.3
30°-40°	4644.2	19.6
40°-50°	2426.3	10.3
50°-60°	1020.5	4.3
60°-70°	416.8	1.8
70°-80°	175.4	0.7
80°-90°	54.0	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°	23645.5	100.0
0°-180°	23645.5	100.0



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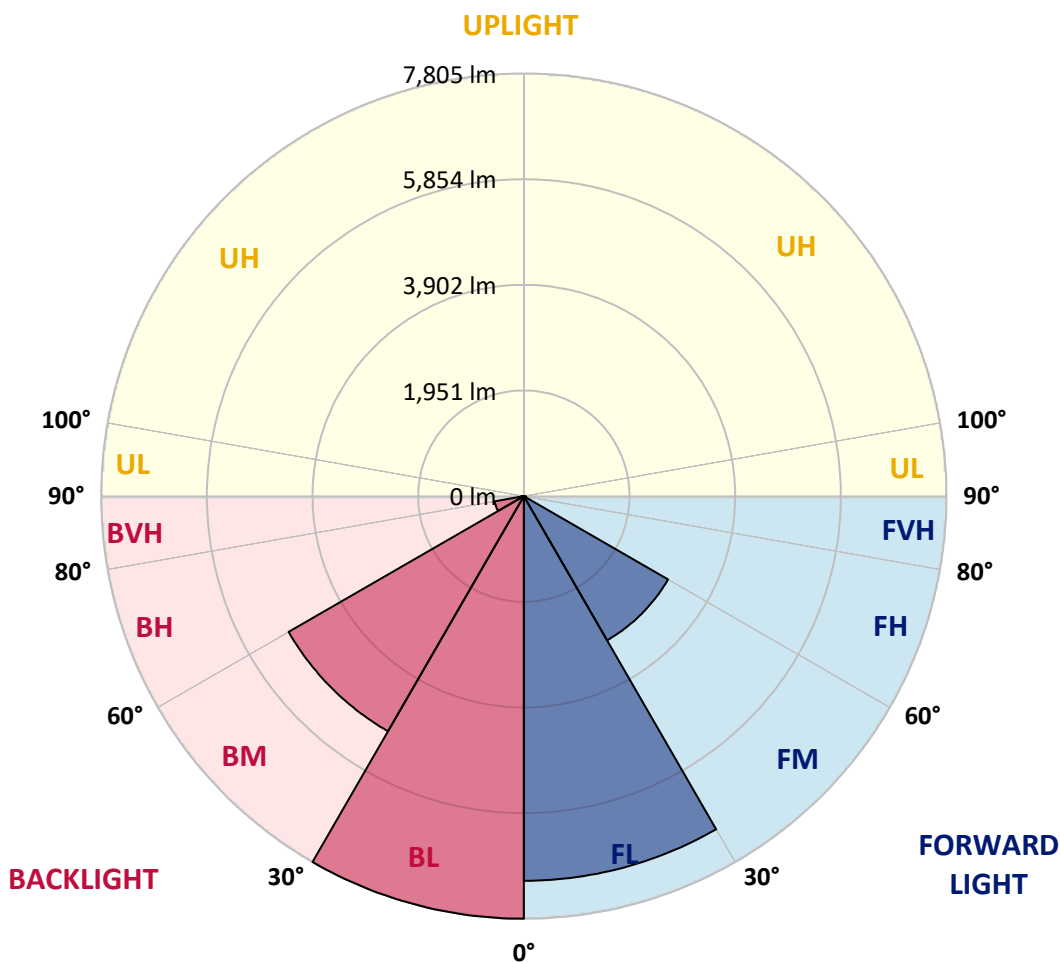
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7103.4	30.0			
FM (30°-60°)	3075.2	13.0			
FH (60°-80°)	44.5	0.2			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	7804.9	33.0	B5		
BM (30°-60°)	5015.8	21.2	B4/8500		
BH (60°-80°)	547.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	49.0	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°	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6
2.5°	28253.7	28138.3	27974.2	27959.1	28044.1	28229.4	28110.9	28117.0	28044.1	28168.6
5°	27810.2	27700.9	27588.5	27439.7	27564.2	27643.2	27582.4	27515.6	27421.4	27542.9
7.5°	26971.9	26911.2	26744.1	26677.3	26753.2	26841.3	26710.7	26692.5	26561.9	26719.8
10°	25690.1	25665.8	25501.8	25462.3	25529.2	25662.8	25605.1	25592.9	25510.9	25495.7
12.5°	24359.8	24265.6	24062.1	24050.0	24150.2	24350.7	24195.7	24046.9	24092.5	24132.0
15°	20933.6	20833.4	21337.6	22130.3	22546.5	22531.3	22576.8	22397.6	22342.9	22361.2
17.5°	16641.8	16471.7	16653.9	17881.0	19858.4	21006.5	20690.6	20304.9	20098.3	19961.6
20°	14363.8	14372.9	14339.5	14655.3	15888.5	18506.7	18430.8	17686.6	17416.3	17303.9
22.5°	12978.7	12927.1	12854.2	12954.4	13285.5	14822.4	15852.1	15168.7	15074.5	14950.0
25°	11621.0	11621.0	11532.9	11633.2	11727.3	11748.6	12781.3	13060.7	12878.5	12878.5
27.5°	10445.5	10384.8	10345.3	10390.9	10266.3	9668.0	9798.6	11229.2	11104.7	11028.7
30°	9279.2	9261.0	9194.1	9254.9	8793.2	8118.9	7845.5	9476.6	9607.2	9579.9
32.5°	7660.3	7733.2	8030.8	8125.0	7335.3	6791.6	6530.4	7866.8	8389.2	8368.0
35°	5206.1	5266.8	5607.0	6730.8	6080.8	5692.0	5616.1	6257.0	7116.6	7198.6
37.5°	4146.0	4136.9	4234.1	4434.6	4887.1	4793.0	4771.7	4938.8	5804.4	5840.9
40°	3417.0	3404.9	3401.9	3237.8	3125.5	3985.0	3927.3	3827.1	4577.3	4650.2
42.5°	2754.9	2767.1	2776.2	2417.8	2253.7	3073.8	3040.4	2937.1	3590.2	3675.2
45°	2162.6	2159.6	2177.8	1801.2	1755.6	1965.2	2272.0	2189.9	2709.3	2800.5
47.5°	1120.8	1160.3	1406.3	1394.2	1415.4	1394.2	1719.2	1697.9	2038.1	2183.9
50°	753.3	765.4	786.7	789.7	1114.7	1026.6	1166.4	1321.3	1427.6	1652.3
52.5°	583.2	592.3	537.6	504.2	683.4	759.3	765.4	914.3	996.3	1224.1
55°	325.0	364.5	391.8	394.9	376.6	561.9	558.9	677.3	741.1	893.0
57.5°	42.5	51.6	79.0	255.1	252.1	312.8	391.8	492.1	528.5	653.0
60°	3.0	6.1	9.1	39.5	167.1	182.2	267.3	306.8	367.5	458.6
62.5°	0.0	0.0	3.0	9.1	33.4	106.3	139.7	161.0	215.7	300.7
65°	0.0	0.0	3.0	6.1	12.1	39.5	54.7	88.1	127.6	185.3
67.5°	0.0	0.0	3.0	6.1	9.1	15.2	24.3	39.5	66.8	112.4
70°	0.0	0.0	3.0	6.1	9.1	12.1	18.2	24.3	36.4	60.7
72.5°	0.0	0.0	3.0	3.0	6.1	15.2	15.2	18.2	24.3	33.4
75°	0.0	0.0	3.0	6.1	9.1	15.2	15.2	15.2	18.2	21.3
77.5°	0.0	0.0	3.0	6.1	9.1	15.2	12.1	15.2	15.2	15.2
80°	0.0	0.0	3.0	6.1	9.1	15.2	18.2	15.2	12.1	12.1
82.5°	0.0	0.0	3.0	9.1	9.1	21.3	21.3	21.3	9.1	9.1
85°	0.0	0.0	6.1	9.1	15.2	24.3	24.3	18.2	9.1	6.1
87.5°	0.0	0.0	3.0	6.1	6.1	12.1	18.2	15.2	6.1	3.0
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°
28250.6	0°	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6	28250.6
27986.4	2.5°	28211.2	28135.2	28278.0	28296.2	28235.5	28159.5	27983.4	27968.2	27661.4
27366.8	5°	27676.6	27552.1	27643.2	27703.9	27682.7	27600.6	27527.8	27460.9	27184.5
26361.4	7.5°	26680.3	26634.8	26677.3	26722.8	26810.9	26722.8	26692.5	26622.6	26349.2
25371.2	10°	25574.7	25489.7	25650.7	25629.4	25605.1	25580.8	25453.2	25465.4	25143.4
24022.6	12.5°	24217.0	24074.3	24229.2	24247.4	24229.2	24144.1	24001.4	24062.1	23767.5
22200.2	15°	22391.5	22376.4	22488.7	22561.6	22613.3	22522.2	22473.6	22503.9	22327.8
19855.3	17.5°	20150.0	20347.4	20714.9	20839.4	20842.5	20936.6	20909.3	20872.9	20742.3
17258.4	20°	17513.5	17893.2	18458.1	19038.3	19205.3	19126.4	19089.9	19156.7	18962.3
14819.4	22.5°	15080.6	15405.6	16061.7	16909.1	17398.1	17446.7	17437.6	17379.9	17303.9
12866.3	25°	13015.2	13303.7	13932.5	14707.0	15645.5	15785.3	15791.3	15773.1	15706.3
11095.5	27.5°	11271.7	11621.0	11967.3	12659.8	13659.1	14236.2	14163.3	14142.0	14117.7
9601.2	30°	9692.3	10132.7	10457.7	10889.0	11785.0	12565.6	12641.6	12605.1	12547.4
8364.9	32.5°	8440.9	8702.1	9115.2	9406.8	10050.7	10934.6	11226.1	11198.8	11147.2
7250.2	35°	7353.5	7456.8	7781.8	8106.8	8535.0	9391.6	9822.9	9762.1	9753.0
5907.7	37.5°	6056.5	6402.8	6582.0	6910.0	7210.7	7875.9	8471.2	8443.9	8446.9
4750.5	40°	4890.2	5090.6	5446.0	5722.4	5998.8	6484.8	7146.9	7165.2	7159.1
3678.3	42.5°	3754.2	3948.6	4322.2	4622.9	4868.9	5169.6	5801.4	5822.7	5850.0
2864.2	45°	2931.1	3055.6	3329.0	3641.8	3903.0	4085.3	4565.2	4701.9	4704.9
2220.3	47.5°	2275.0	2417.8	2612.1	2912.8	3168.0	3298.6	3647.9	3833.2	3824.1
1704.0	50°	1786.0	1916.6	2074.5	2311.4	2587.8	2691.1	2949.3	3131.5	3122.4
1284.8	52.5°	1366.8	1533.9	1673.6	1855.8	2126.2	2214.2	2399.5	2609.1	2578.7
941.6	55°	1035.7	1205.8	1336.4	1488.3	1734.3	1846.7	1974.3	2141.4	2147.4
729.0	57.5°	780.6	956.8	1075.2	1230.1	1415.4	1540.0	1637.1	1816.4	1813.3
498.1	60°	558.9	710.7	853.5	1014.5	1157.2	1300.0	1366.8	1536.9	1543.0
352.3	62.5°	404.0	546.7	683.4	823.1	950.7	1090.4	1151.2	1284.8	1303.0
230.8	65°	282.5	382.7	540.7	647.0	789.7	893.0	972.0	1087.4	1108.6
136.7	67.5°	182.2	276.4	428.3	522.4	653.0	741.1	823.1	914.3	941.6
88.1	70°	109.3	209.6	318.9	419.2	537.6	616.6	695.6	774.5	789.7
42.5	72.5°	69.9	145.8	230.8	340.2	431.3	516.4	586.2	643.9	598.4
27.3	75°	39.5	100.2	182.2	267.3	349.3	431.3	489.0	519.4	416.1
18.2	77.5°	24.3	72.9	148.8	215.7	270.3	346.3	382.7	400.9	297.7
12.1	80°	15.2	54.7	124.5	176.2	176.2	255.1	297.7	312.8	215.7
9.1	82.5°	12.1	39.5	97.2	133.6	118.5	191.4	233.9	236.9	151.9
6.1	85°	9.1	30.4	60.7	88.1	82.0	133.6	136.7	151.9	100.2
6.1	87.5°	6.1	18.2	36.4	51.6	45.6	63.8	72.9	82.0	54.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
28250.6
27421.4
26962.8
26291.5
25034.1
23682.4
22115.1
20547.9
18822.6
17158.1
15481.5
13975.0
12474.5
11010.5
9652.8
8349.8
7052.8
5758.9
4625.9
3790.6
3122.4
2581.8
2147.4
1807.2
1527.8
1297.0
1102.6
938.5
777.6
555.8
394.9
279.4
200.5
139.7
91.1
48.6
0.0

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