

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: P636676

Luminaire Tested: **IFLD-L-SA8B-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636676
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23415.7 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

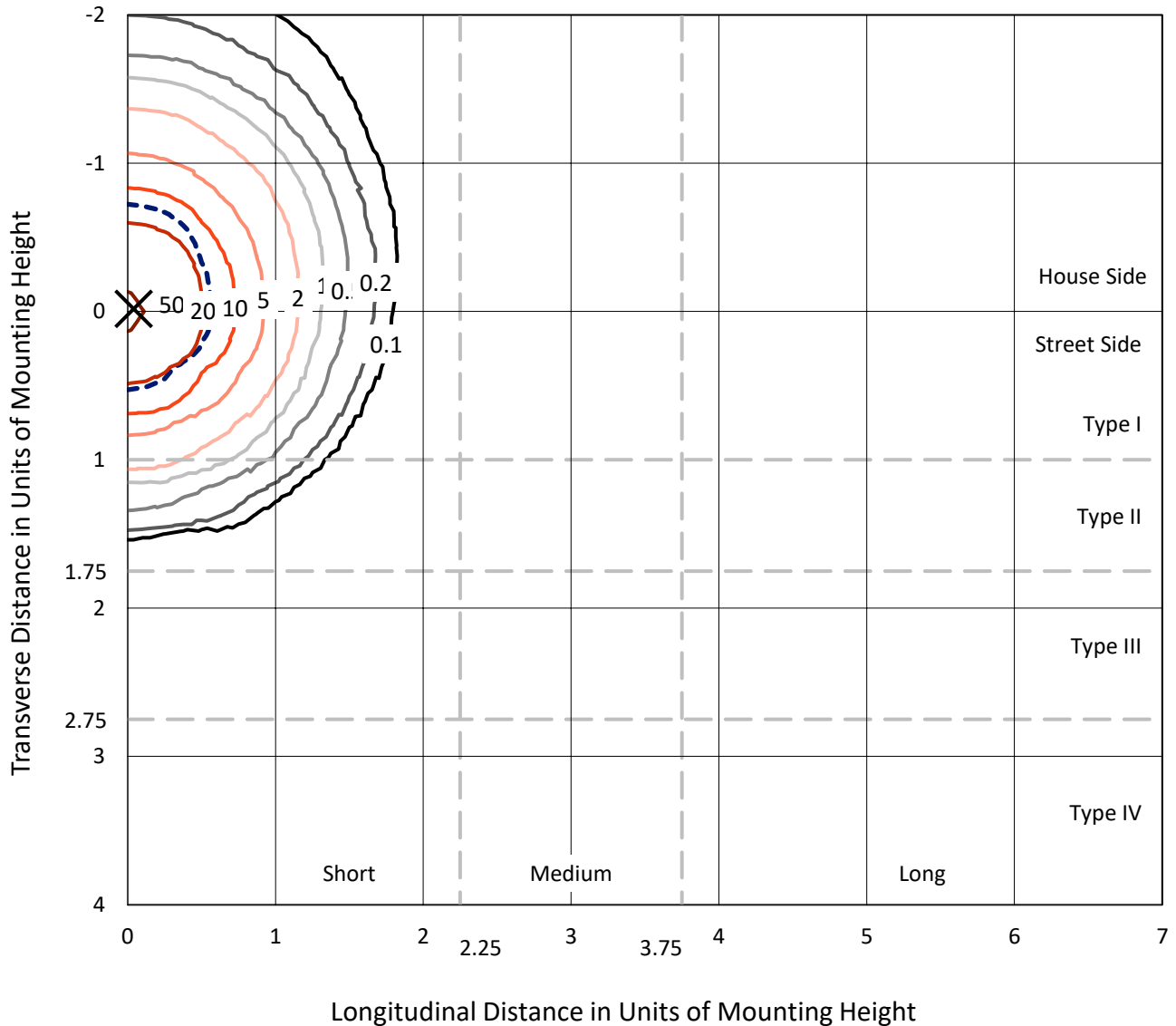
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

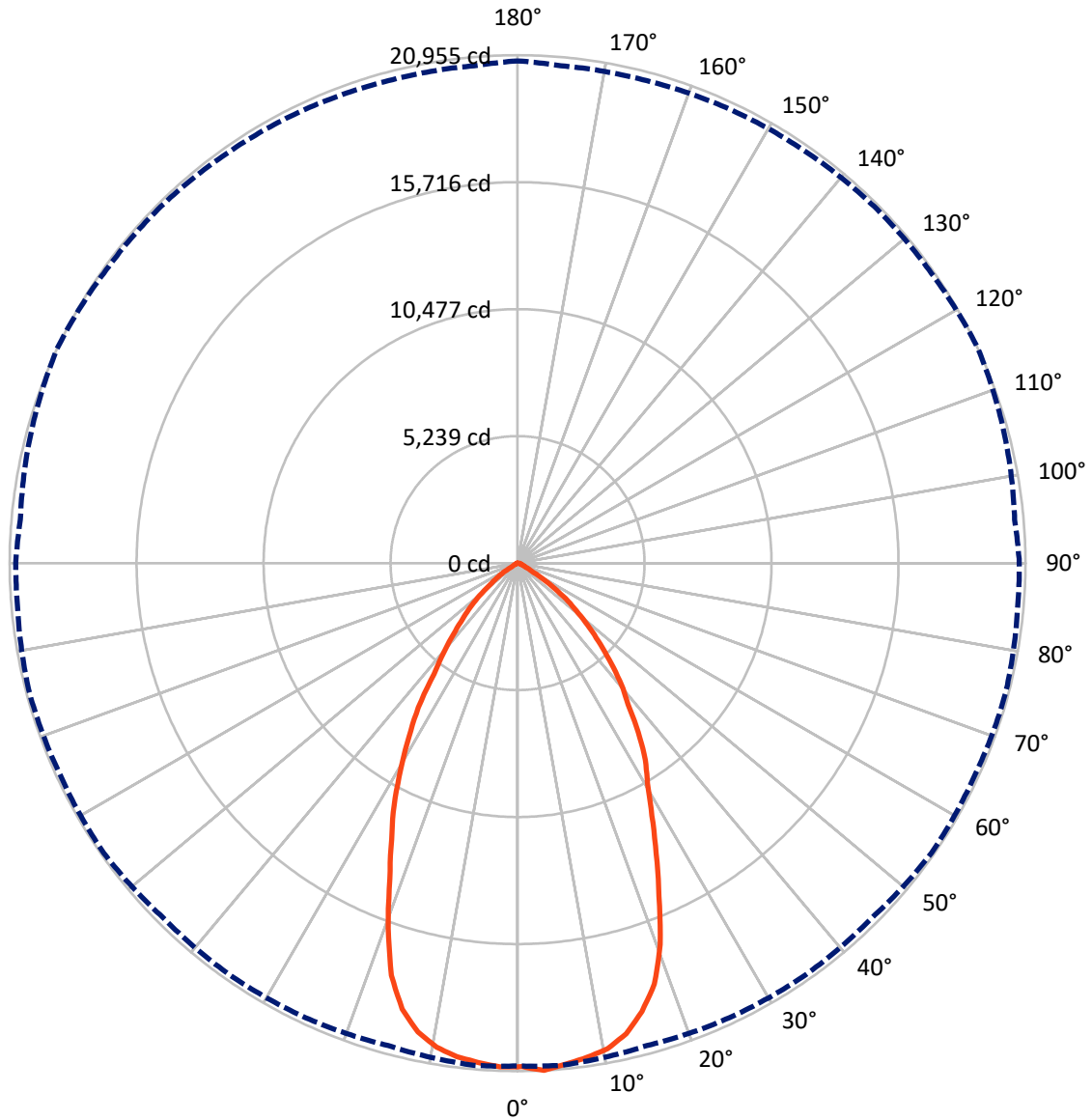
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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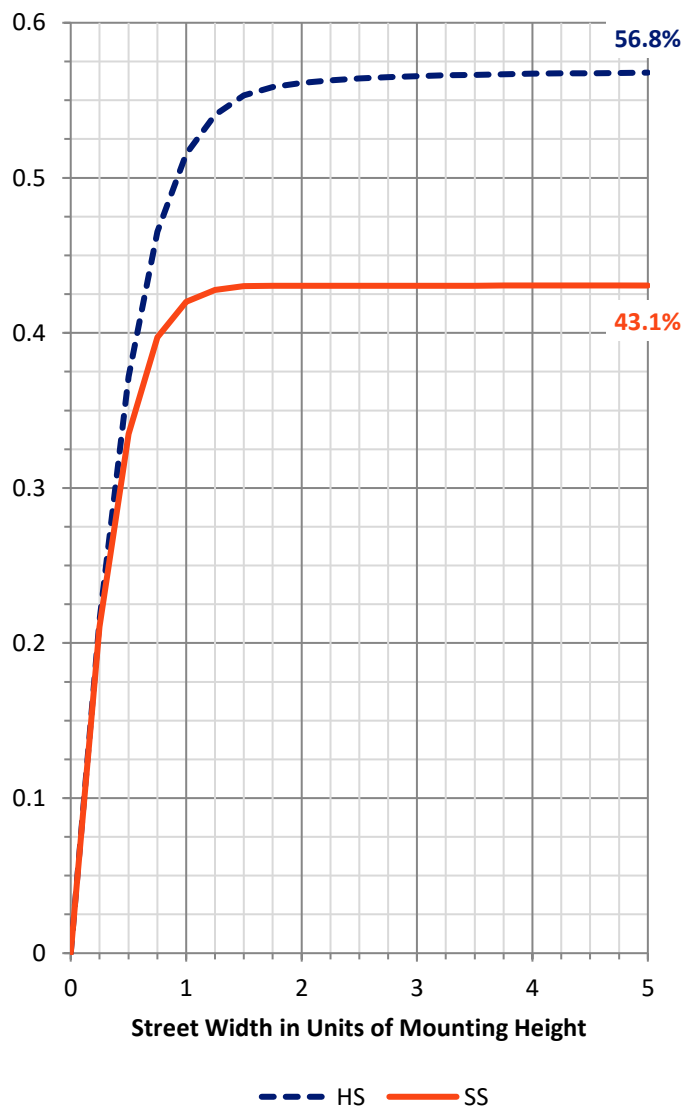
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13400.5	0.0	13400.5
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	10015.2	0.0	10015.2
	% Fixture	42.8	0.0	42.8
Total	Lumens	23415.7	0.0	23415.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1956.8	8.4
10°-20°	5188.4	22.2
20°-30°	5934.5	25.3
30°-40°	5085.7	21.7
40°-50°	3362.9	14.4
50°-60°	1467.4	6.3
60°-70°	288.3	1.2
70°-80°	104.0	0.4
80°-90°	27.7	0.1
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°	23415.7	100.0
0°-180°	23415.7	100.0



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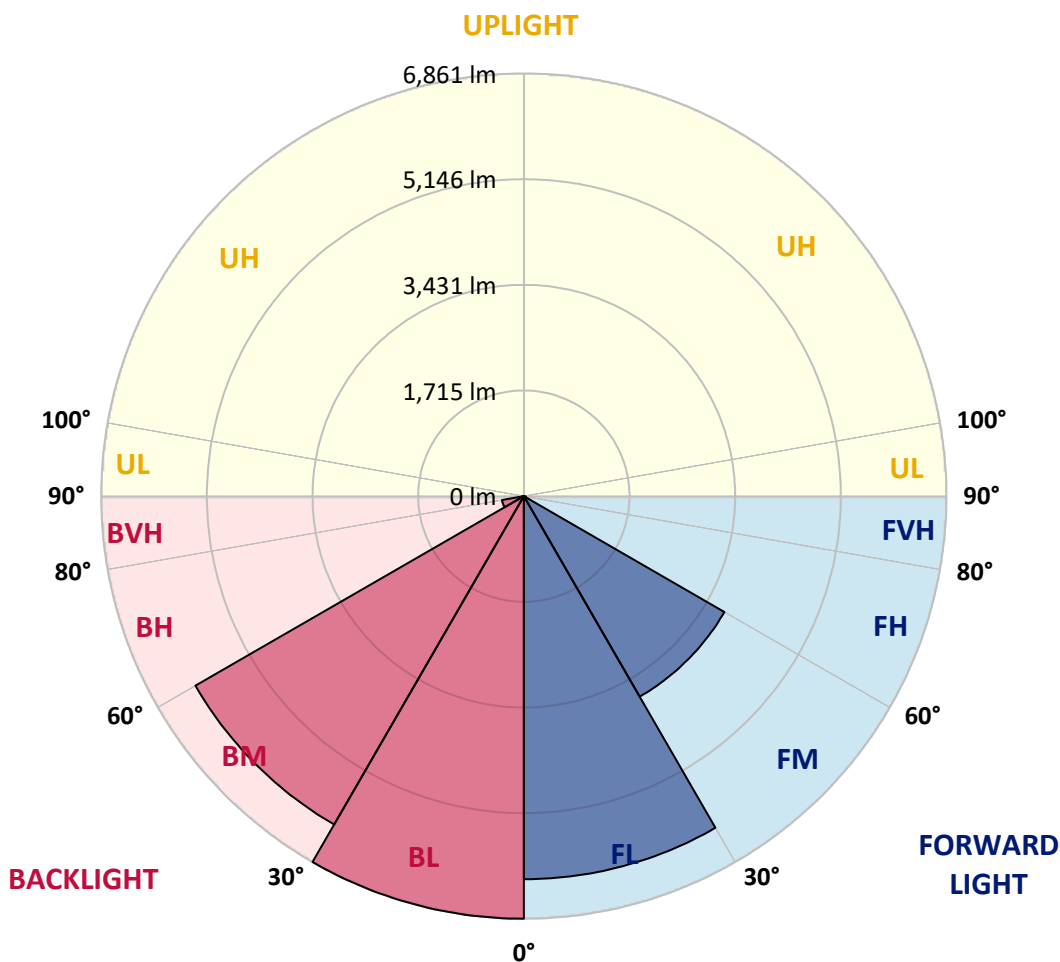
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6218.7	26.6			
FM (30°-60°)	3760.0	16.1			
FH (60°-80°)	31.9	0.1			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	6861.0	29.3	B5		
BM (30°-60°)	6155.9	26.3	B4/8500		
BH (60°-80°)	360.5	1.5	B1/500		G1/500
BVH (80°-90°)	23.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6
2.5°	20745.7	20795.5	20606.3	20691.0	20725.8	20681.0	20845.3	20795.5	20835.3	20710.9
5°	20745.7	20795.5	20576.5	20616.3	20626.3	20541.6	20720.8	20661.1	20666.1	20536.7
7.5°	20616.3	20676.0	20476.9	20506.8	20511.8	20442.1	20596.4	20511.8	20481.9	20347.5
10°	20267.9	20302.7	20123.5	20198.2	20267.9	20203.2	20337.6	20243.0	20243.0	20123.5
12.5°	19715.4	19780.1	19581.0	19670.6	19730.3	19655.7	19810.0	19775.1	19780.1	19660.6
15°	18710.0	18486.0	18724.9	18904.1	18909.1	18894.1	19038.5	19003.6	19028.5	18849.3
17.5°	13822.2	13767.4	14046.2	16161.5	17734.4	17948.4	17973.3	17784.2	17699.6	17525.3
20°	12806.8	12846.6	12786.9	12796.8	14036.2	16609.5	16455.2	15987.3	15773.3	15599.1
22.5°	12065.2	12000.5	11960.6	11935.8	11970.6	13648.0	14757.9	14051.1	13936.7	13852.0
25°	11258.8	11229.0	11179.2	11169.2	11149.3	10865.6	12463.4	12528.1	12343.9	12239.4
27.5°	10507.2	10487.3	10432.6	10427.6	10198.6	9511.8	9686.0	11224.0	11174.2	11134.4
30°	9705.9	9666.1	9636.2	9636.2	8944.3	8237.6	7953.8	9785.5	9785.5	9750.7
32.5°	8834.8	8800.0	8810.0	8690.5	7864.3	7217.2	6769.2	8446.6	8969.2	8939.4
35°	5400.5	5390.5	6400.9	7729.9	6759.3	6171.9	6142.1	7227.2	7988.7	8068.3
37.5°	4808.1	4778.3	4793.2	4877.8	5788.7	5554.8	5544.8	5729.0	6799.1	6838.9
40°	4315.4	4295.5	4280.5	3976.9	3688.2	4957.5	4922.6	4803.2	5808.6	5878.3
42.5°	3847.5	3827.6	3827.6	3399.5	2931.7	4076.5	4091.4	3952.0	4897.7	4922.6
45°	3364.7	3349.8	3265.2	2712.7	2578.3	2707.7	3389.6	3230.3	3887.3	4146.2
47.5°	1587.8	1577.8	2284.6	2254.8	2244.8	2165.2	2588.2	2677.8	3086.0	3344.8
50°	1274.2	1264.3	1204.5	1060.2	1846.6	1642.5	1866.5	2060.6	2190.0	2429.0
52.5°	1055.2	1045.2	920.8	816.3	1025.3	1199.5	1114.9	1378.7	1373.8	1632.6
55°	691.9	642.1	706.8	667.0	537.6	871.0	851.1	1045.2	1020.4	1244.3
57.5°	14.9	14.9	34.8	378.3	338.5	368.3	487.8	597.3	671.9	736.7
60°	5.0	5.0	10.0	19.9	139.4	154.3	189.1	219.0	308.6	383.3
62.5°	0.0	0.0	5.0	10.0	19.9	79.6	89.6	104.5	144.3	199.1
65°	0.0	0.0	0.0	5.0	10.0	19.9	29.9	64.7	89.6	114.5
67.5°	0.0	0.0	0.0	5.0	5.0	10.0	19.9	29.9	39.8	79.6
70°	0.0	0.0	0.0	5.0	5.0	10.0	14.9	19.9	29.9	39.8
72.5°	0.0	0.0	0.0	5.0	5.0	14.9	10.0	14.9	19.9	24.9
75°	0.0	0.0	0.0	5.0	5.0	5.0	10.0	14.9	14.9	19.9
77.5°	0.0	0.0	0.0	5.0	10.0	10.0	10.0	10.0	10.0	14.9
80°	0.0	0.0	0.0	5.0	5.0	10.0	14.9	19.9	10.0	10.0
82.5°	0.0	0.0	0.0	10.0	5.0	19.9	29.9	24.9	10.0	5.0
85°	0.0	0.0	0.0	5.0	19.9	24.9	24.9	14.9	5.0	5.0
87.5°	0.0	0.0	0.0	5.0	5.0	10.0	14.9	14.9	5.0	5.0
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°
20775.6	0°	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6	20775.6
20700.9	2.5°	20586.4	20780.6	20954.8	20845.3	20805.4	20725.8	20666.1	20601.4	20596.4
20521.7	5°	20407.2	20591.4	20760.6	20631.2	20641.2	20601.4	20561.5	20546.6	20556.6
20337.6	7.5°	20252.9	20407.2	20591.4	20481.9	20511.8	20486.9	20467.0	20437.1	20481.9
20098.6	10°	20019.0	20158.4	20372.4	20267.9	20252.9	20228.1	20208.2	20153.4	20178.3
19665.6	12.5°	19506.3	19680.5	19924.4	19805.0	19844.8	19775.1	19745.3	19710.4	19715.4
18914.0	15°	18809.5	18943.9	19192.8	19098.2	19128.1	19083.3	19083.3	19083.3	19118.1
17550.2	17.5°	17595.0	17868.8	18262.0	18142.5	18187.3	18197.3	18187.3	18222.2	18267.0
15609.1	20°	15619.0	16086.9	16803.6	17037.6	17132.1	17137.1	17067.4	17152.0	17241.6
13792.3	22.5°	13802.3	14295.0	14927.2	15569.2	15967.4	15947.5	15957.5	16012.2	16106.8
12174.7	25°	12229.4	12702.3	13274.7	13847.1	14718.1	14897.3	14902.3	14952.0	15026.7
11069.7	27.5°	11094.6	11278.7	11801.4	12378.7	13314.5	13886.9	13857.0	13901.8	13981.5
9686.0	30°	9725.8	10432.6	10552.0	10905.4	11711.8	12762.0	12767.0	12816.7	12896.4
8869.7	32.5°	8844.8	9312.7	9681.0	9691.0	10377.8	11457.9	11671.9	11721.7	11776.5
8023.5	35°	8018.6	8073.3	8571.0	8710.4	9108.6	10178.7	10557.0	10586.9	10676.5
6824.0	37.5°	6938.5	7262.0	7401.4	7899.1	7919.0	8785.1	9536.7	9506.8	9576.5
5873.3	40°	5948.0	6256.6	6610.0	6973.3	7023.1	7670.1	8501.4	8531.2	8561.1
4872.9	42.5°	4912.7	5305.9	5669.2	5913.1	6251.6	6624.9	7416.3	7555.7	7625.3
4176.0	45°	4250.7	4360.2	4793.2	5151.6	5495.0	5669.2	6410.9	6664.7	6709.5
3305.0	47.5°	3349.8	3718.1	4011.8	4315.4	4743.4	4897.7	5435.3	5788.7	5823.5
2453.8	50°	2588.2	2852.0	3255.2	3529.0	4026.7	4111.3	4479.6	4937.6	4982.4
1642.5	52.5°	1851.6	2210.0	2603.2	2867.0	3344.8	3454.3	3728.1	4166.1	4195.9
1259.3	55°	1329.0	1562.9	1886.4	2264.7	2613.1	2857.0	3046.2	3464.3	3504.1
826.2	57.5°	905.9	1124.9	1259.3	1637.6	1846.6	2110.4	2264.7	2583.3	2613.1
393.2	60°	433.0	537.6	642.1	831.2	965.6	1189.6	1289.1	1418.6	1453.4
238.9	62.5°	278.7	328.5	418.1	497.7	627.1	766.5	806.3	915.8	955.7
149.3	65°	184.2	233.9	328.5	348.4	477.8	587.3	637.1	716.7	761.5
89.6	67.5°	104.5	164.3	243.9	288.7	378.3	482.8	537.6	607.2	647.1
59.7	70°	69.7	134.4	194.1	238.9	298.6	388.2	457.9	517.6	542.5
29.9	72.5°	39.8	84.6	134.4	189.1	238.9	323.5	388.2	438.0	288.7
19.9	75°	24.9	64.7	114.5	159.3	199.1	258.8	313.6	308.6	129.4
14.9	77.5°	19.9	49.8	99.5	134.4	164.3	179.2	224.0	253.8	99.5
10.0	80°	14.9	39.8	89.6	114.5	64.7	129.4	174.2	189.1	69.7
10.0	82.5°	10.0	24.9	74.7	79.6	44.8	94.6	139.4	124.4	49.8
5.0	85°	5.0	14.9	24.9	44.8	39.8	44.8	34.8	49.8	34.8
5.0	87.5°	5.0	10.0	19.9	19.9	19.9	14.9	19.9	19.9	19.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
20775.6
20715.8
20681.0
20606.3
20297.7
19859.7
19133.0
18416.3
17301.4
16121.7
15156.1
14056.1
13035.8
11900.9
10771.0
9661.1
8655.7
7724.9
6819.0
5908.1
5047.1
4250.7
3538.9
2672.9
1493.2
965.6
761.5
642.1
537.6
233.9
129.4
99.5
74.7
49.8
34.8
19.9
0.0

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