

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: P638065

Luminaire Tested: **IFLD-L-SA7D-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638065
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27637.3 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

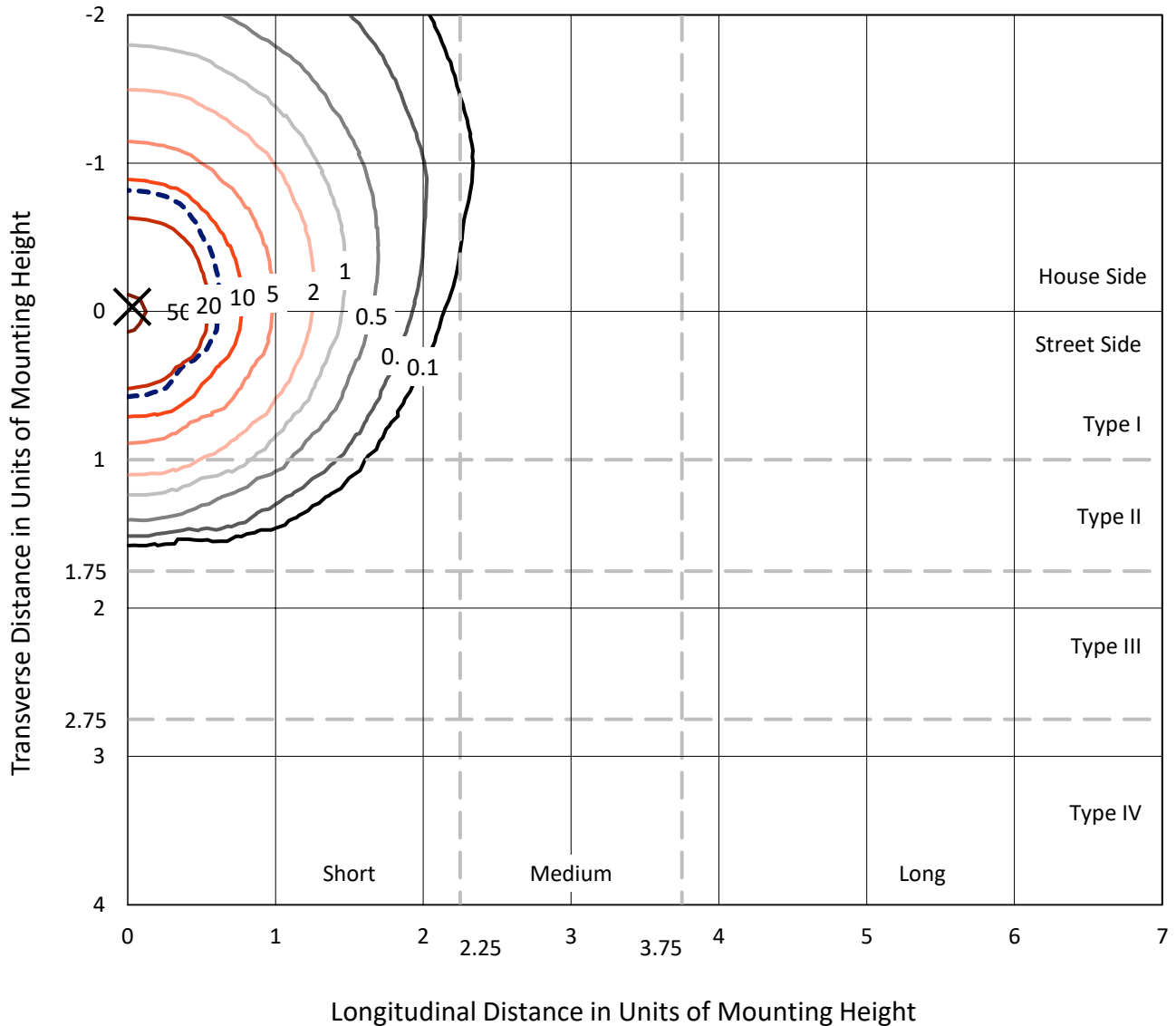
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

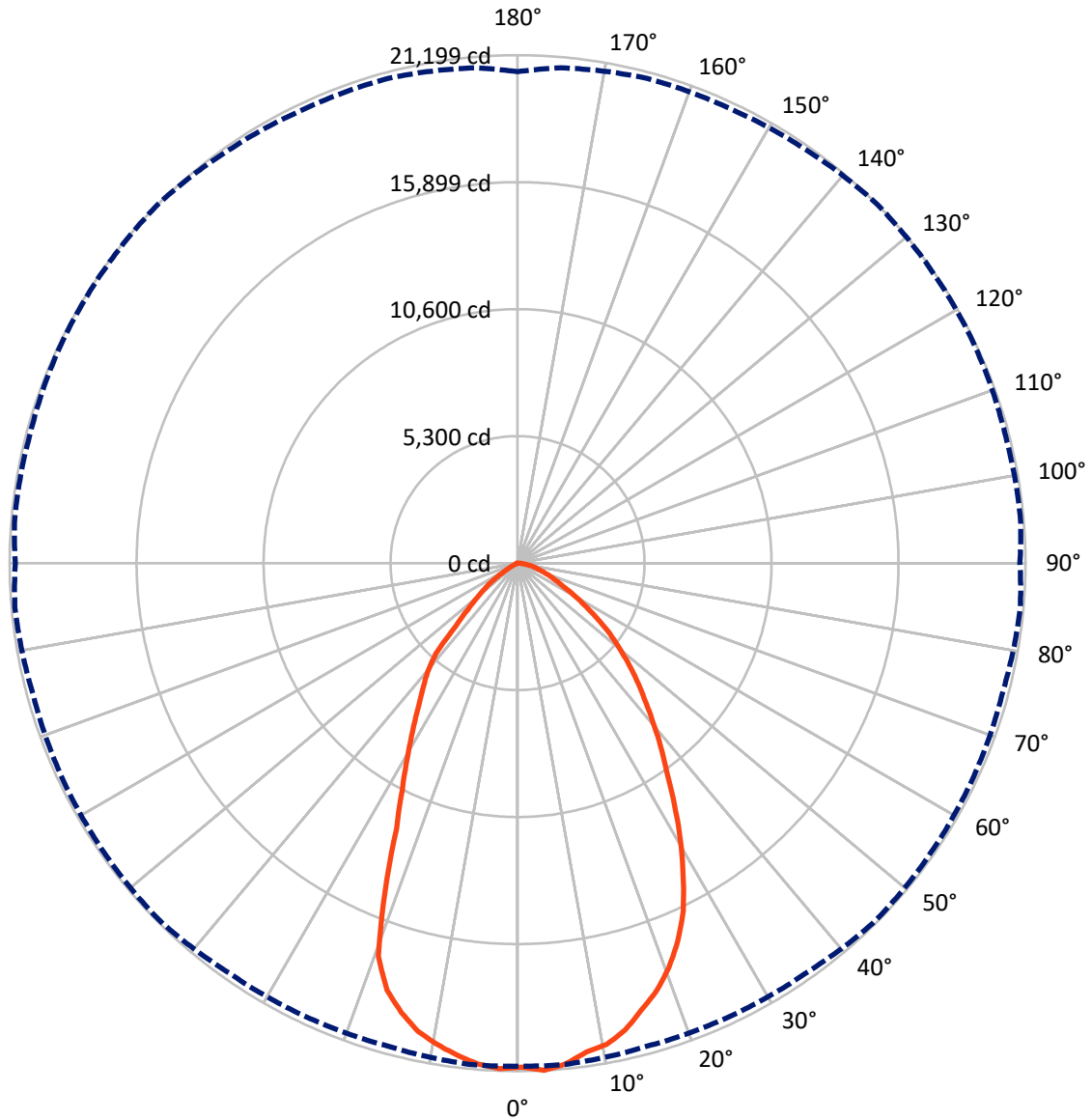
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.6 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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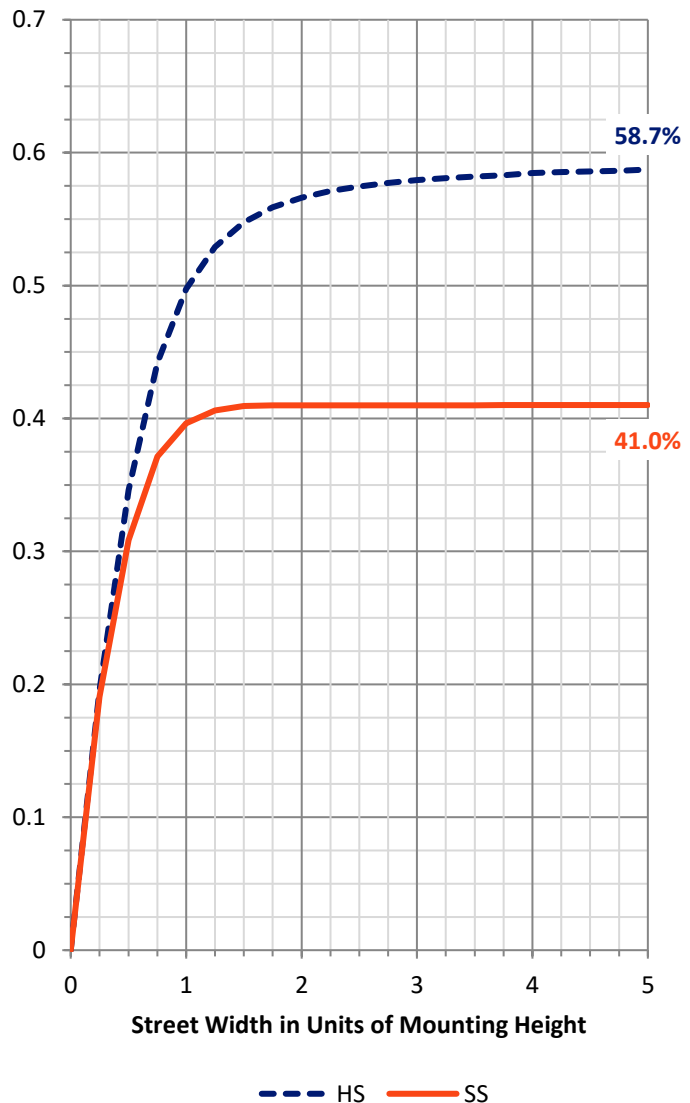
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16368.2	0.0	16368.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11269.1	0.0	11269.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	27637.3	0.0	27637.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1972.5	7.1
10°-20°	5289.3	19.1
20°-30°	6450.6	23.3
30°-40°	5889.3	21.3
40°-50°	4256.1	15.4
50°-60°	2323.9	8.4
60°-70°	960.8	3.5
70°-80°	389.1	1.4
80°-90°	105.9	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°	27637.3	100.0
0°-180°	27637.3	100.0



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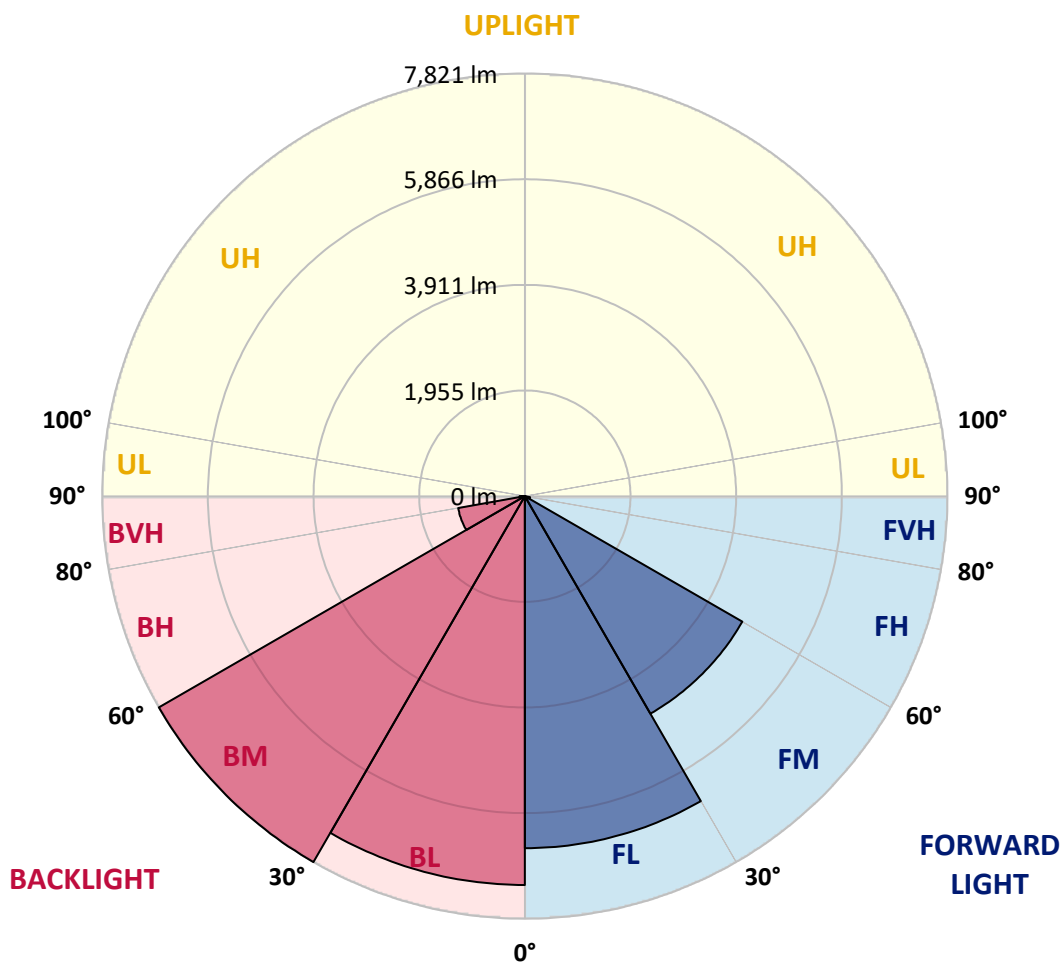
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6515.1	23.6			
FM (30°-60°)	4648.1	16.8			
FH (60°-80°)	97.4	0.4			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	7197.2	26.0	B5		
BM (30°-60°)	7821.1	28.3	B4/8500		
BH (60°-80°)	1252.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	97.4	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-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9
2.5°	20993.0	21020.2	20872.3	20887.9	20915.1	21113.6	21063.0	21016.3	20950.2	21063.0
5°	20965.7	20981.3	20825.6	20771.1	20794.5	20973.5	20810.1	20810.1	20794.5	20775.0
7.5°	20755.6	20763.4	20642.7	20545.4	20607.7	20689.4	20568.8	20627.1	20541.5	20607.7
10°	20440.3	20389.7	20245.7	20218.5	20288.5	20366.4	20284.7	20339.1	20261.3	20311.9
12.5°	19977.2	19899.4	19782.6	19747.6	19868.2	19973.3	19907.1	19876.0	19774.8	19899.4
15°	18190.8	18132.4	18397.1	18860.2	19276.6	19366.2	19296.1	19327.2	19117.1	19152.1
17.5°	14972.2	14863.2	15147.3	16244.8	17809.4	18634.5	18572.2	18369.8	18058.5	18128.5
20°	13606.1	13575.0	13543.9	13804.6	14898.2	17400.7	17486.4	16972.6	16529.0	16431.7
22.5°	12835.5	12823.9	12792.7	12851.1	13139.1	14746.5	15727.2	15252.4	14956.6	14929.4
25°	12131.1	12111.6	12018.2	12092.2	12092.2	12185.6	13442.7	13730.7	13469.9	13438.8
27.5°	11415.0	11380.0	11364.4	11399.4	11220.4	10589.9	10909.0	12314.0	12177.8	12185.6
30°	10640.5	10628.8	10586.0	10660.0	10107.3	9325.0	9122.6	11029.7	11056.9	11049.1
32.5°	9488.5	9539.1	9733.7	9815.4	8904.7	8258.6	7920.0	9543.0	10099.5	10087.8
35°	6892.6	6892.6	7527.0	8706.2	7803.3	7316.8	7133.9	8091.3	9153.8	9192.7
37.5°	5666.6	5686.1	5810.6	6347.7	6733.0	6561.8	6507.3	6810.8	7939.5	8001.8
40°	5098.4	5098.4	5098.4	4876.6	4864.9	5911.8	5880.7	5783.4	6857.6	6993.8
42.5°	4580.8	4592.5	4600.2	4039.8	3728.5	5110.1	5040.0	4892.1	5888.5	6048.0
45°	4047.6	4067.0	4090.4	3378.2	3242.0	3677.9	4265.5	4102.1	4931.1	5137.3
47.5°	2471.4	2502.5	3031.8	2864.4	2880.0	2837.2	3479.4	3452.1	4043.7	4335.6
50°	1669.6	1681.3	1731.9	1817.5	2471.4	2230.1	2463.6	2856.7	3070.7	3514.4
52.5°	1401.1	1420.5	1296.0	1179.2	1622.9	1743.6	1720.2	2121.1	2206.7	2755.5
55°	984.7	1046.9	988.5	976.9	922.4	1354.4	1303.8	1630.7	1685.2	2093.8
57.5°	101.2	116.8	202.4	727.8	603.2	766.7	930.2	1194.8	1249.3	1545.1
60°	7.8	7.8	19.5	101.2	439.8	459.2	642.2	735.6	840.7	1078.1
62.5°	0.0	3.9	7.8	15.6	70.1	245.2	323.0	385.3	505.9	696.7
65°	0.0	0.0	3.9	11.7	15.6	93.4	124.5	202.4	276.3	432.0
67.5°	0.0	0.0	3.9	7.8	11.7	23.4	42.8	73.9	147.9	245.2
70°	0.0	0.0	3.9	7.8	11.7	19.5	31.1	46.7	66.2	132.3
72.5°	0.0	0.0	3.9	3.9	7.8	19.5	23.4	31.1	46.7	66.2
75°	0.0	0.0	3.9	3.9	11.7	23.4	19.5	23.4	31.1	42.8
77.5°	0.0	0.0	3.9	7.8	11.7	23.4	19.5	23.4	23.4	27.2
80°	0.0	0.0	3.9	7.8	15.6	27.2	23.4	23.4	19.5	19.5
82.5°	0.0	0.0	3.9	11.7	15.6	35.0	35.0	31.1	15.6	11.7
85°	0.0	0.0	7.8	15.6	23.4	38.9	38.9	31.1	11.7	7.8
87.5°	0.0	0.0	7.8	11.7	19.5	27.2	38.9	31.1	11.7	3.9
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°
21031.9	0°	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9	21031.9
20965.7	2.5°	21070.8	21047.5	21125.3	21156.4	21199.3	21035.8	20934.6	20938.5	20751.7
20728.3	5°	20852.9	20856.8	20958.0	20950.2	20993.0	20903.5	20864.5	20798.4	20634.9
20428.7	7.5°	20576.5	20541.5	20638.8	20712.8	20603.8	20666.1	20576.5	20607.7	20510.4
20164.0	10°	20362.5	20280.8	20370.3	20420.9	20424.8	20362.5	20276.9	20195.1	20160.1
19751.5	12.5°	19887.7	19782.6	19934.4	20004.4	19992.8	19872.1	19774.8	19794.3	19681.4
19027.6	15°	19233.8	19237.7	19346.7	19412.9	19350.6	19323.4	19331.1	19284.4	19187.1
18027.3	17.5°	18233.6	18292.0	18580.0	18739.6	18774.6	18720.1	18692.9	18638.4	18541.1
16431.7	20°	16567.9	16918.1	17431.9	17926.2	18023.5	18007.9	17910.6	17887.2	17832.7
14851.5	22.5°	15104.5	15365.3	15960.7	16731.3	17128.3	17167.2	17050.5	17015.4	16957.1
13438.8	25°	13590.6	13870.8	14407.9	15244.6	16065.8	16233.2	16213.7	16108.6	16046.4
12185.6	27.5°	12314.0	12594.2	13080.7	13835.8	14715.3	15252.4	15303.0	15135.7	15131.8
11068.6	30°	11162.0	11547.3	11917.0	12532.0	13384.3	14189.9	14275.5	14158.8	14170.5
10045.0	32.5°	10259.1	10578.2	10893.5	11306.0	12014.3	12952.3	13287.0	13178.0	13135.2
9192.7	35°	9336.7	9554.6	9877.7	10255.2	10737.8	11668.0	12247.9	12166.1	12123.3
8040.7	37.5°	8285.9	8659.5	8893.0	9317.2	9694.8	10434.2	11251.5	11239.8	11150.3
7059.9	40°	7207.8	7600.9	7955.1	8383.2	8675.1	9262.8	10169.6	10165.7	10177.4
6044.1	42.5°	6231.0	6592.9	7021.0	7488.0	7768.3	8196.4	9169.3	9223.8	9290.0
5207.4	45°	5347.5	5674.4	6071.4	6639.6	6978.2	7223.4	8087.4	8336.5	8332.6
4460.1	47.5°	4553.5	4861.0	5195.7	5748.4	6180.4	6402.2	7118.3	7472.5	7449.1
3658.4	50°	3821.9	4094.3	4444.6	4845.4	5425.3	5619.9	6153.1	6620.1	6585.1
2915.0	52.5°	3074.6	3452.1	3747.9	4113.8	4724.8	4915.5	5328.0	5783.4	5756.1
2187.3	55°	2397.4	2763.3	3121.3	3436.6	3950.3	4234.4	4530.2	4997.2	4989.4
1712.4	57.5°	1813.6	2214.5	2553.1	2852.8	3261.4	3611.7	3849.1	4273.3	4327.8
1171.5	60°	1342.7	1650.2	2016.0	2350.7	2673.7	3035.7	3195.3	3611.7	3635.0
801.7	62.5°	914.6	1253.2	1611.3	1914.8	2156.1	2529.7	2673.7	3016.2	3059.0
513.7	65°	634.4	852.3	1261.0	1478.9	1774.7	2093.8	2237.9	2510.3	2595.9
295.8	67.5°	420.3	607.1	984.7	1183.1	1475.0	1693.0	1875.9	2097.7	2191.1
186.8	70°	229.6	447.6	704.4	934.1	1187.0	1397.2	1576.2	1755.3	1837.0
85.6	72.5°	155.7	299.7	490.4	739.5	957.4	1163.7	1323.3	1455.6	1459.5
50.6	75°	77.8	202.4	373.6	572.1	747.2	949.6	1093.6	1171.5	1078.1
31.1	77.5°	46.7	147.9	303.6	459.2	607.1	766.7	848.4	891.2	739.5
23.4	80°	27.2	105.1	237.4	365.8	420.3	564.3	642.2	653.8	494.3
15.6	82.5°	19.5	77.8	186.8	268.5	256.9	397.0	482.6	467.0	315.2
11.7	85°	11.7	54.5	116.8	167.4	155.7	260.8	280.2	288.0	182.9
7.8	87.5°	7.8	31.1	62.3	89.5	73.9	112.9	112.9	136.2	89.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
21031.9
20510.4
20596.0
20346.9
20004.4
19584.1
19089.8
18498.3
17708.2
16941.5
15980.2
15124.0
14112.1
13139.1
12064.9
11224.3
10177.4
9255.0
8340.4
7456.9
6616.3
5814.5
5008.9
4304.5
3670.1
3066.8
2576.4
2179.5
1805.8
1424.4
1008.0
712.2
463.1
291.9
167.4
77.8
0.0

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