

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: P638150

Luminaire Tested: **IFLD-L-SA7B-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638150
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27017 lumens
Efficiency: N/A
Efficacy: 96.1 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): 281
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

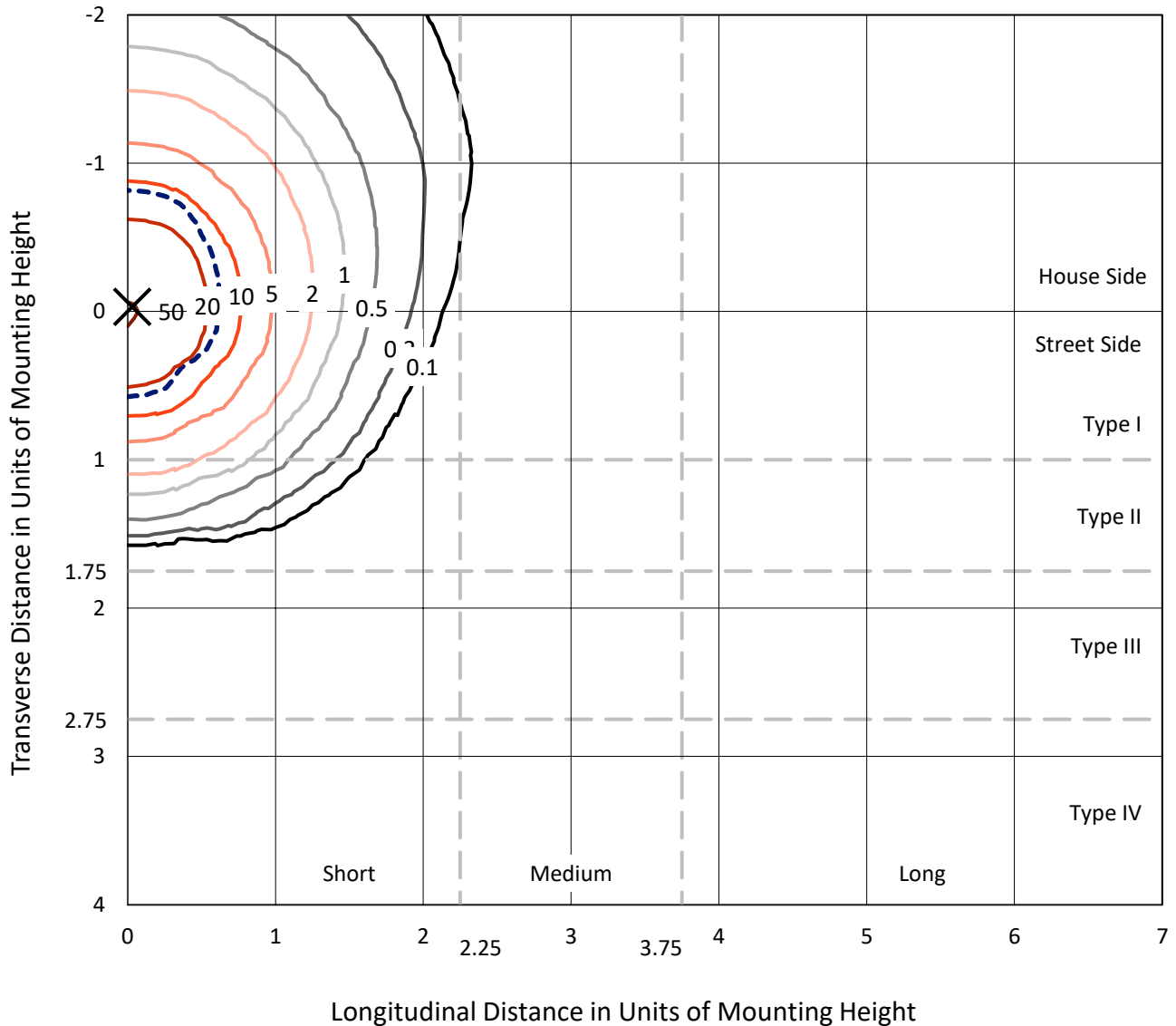




REPORT NUMBER: P638150
 CATALOG NUMBER: IFLD-L-SA7B-735-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

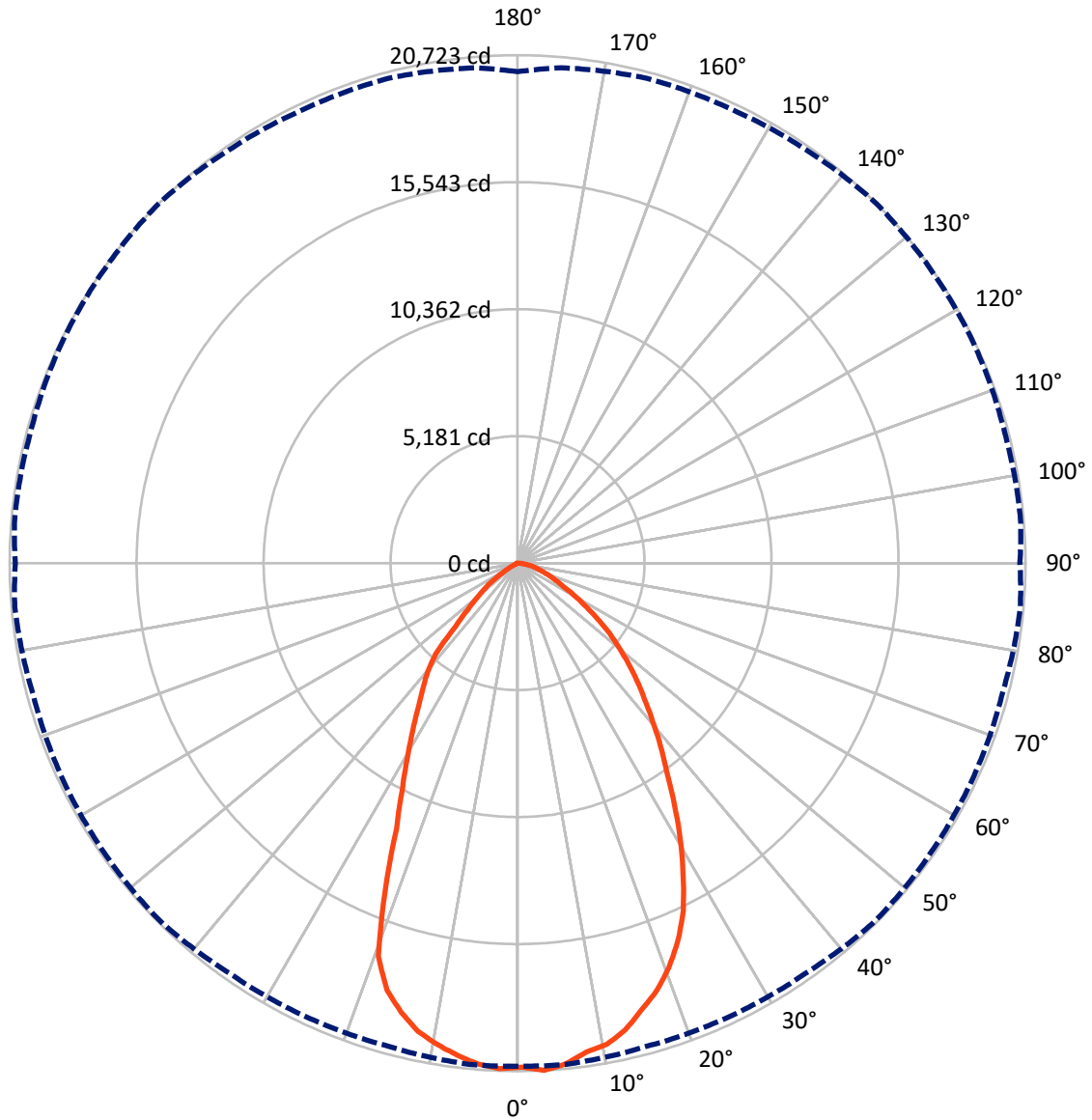
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 51.4 fc
 Type I - Short - N/A

REPORT NUMBER: P638150
CATALOG NUMBER: IFLD-L-SA7B-735-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638150

CATALOG NUMBER: IFLD-L-SA7B-735-U-77-VI

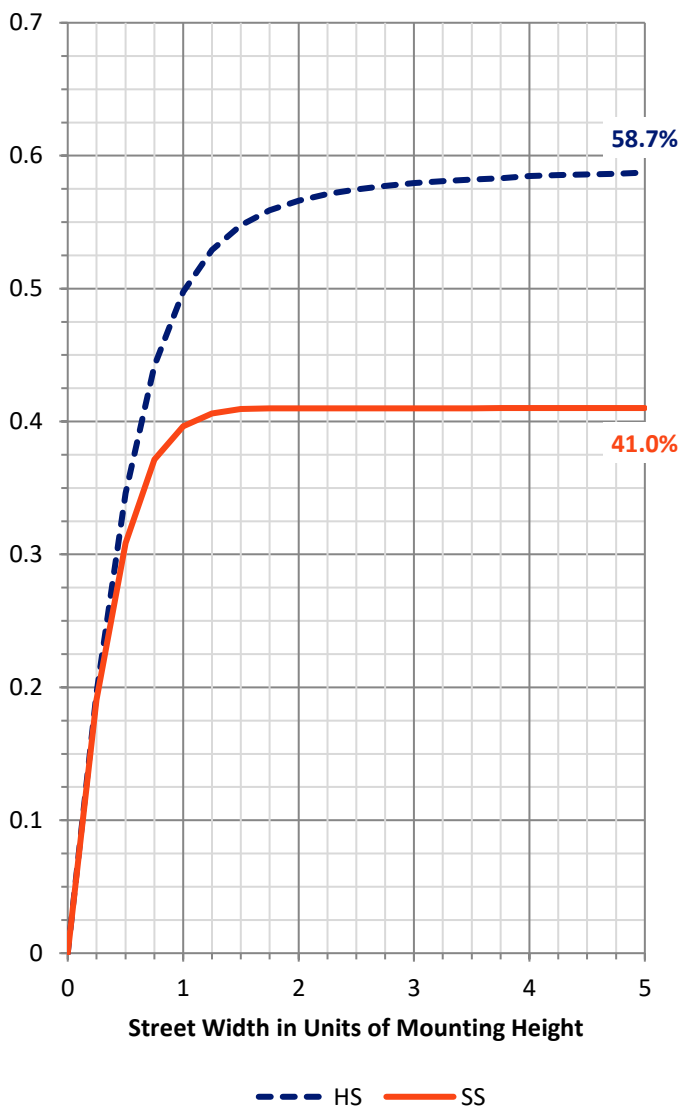
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16000.8	0.0	16000.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	11016.1	0.0	11016.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	27017.0	0.0	27017.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1928.2	7.1
10°-20°	5170.6	19.1
20°-30°	6305.8	23.3
30°-40°	5757.1	21.3
40°-50°	4160.5	15.4
50°-60°	2271.7	8.4
60°-70°	939.3	3.5
70°-80°	380.4	1.4
80°-90°	103.5	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°	27017.0	100.0
0°-180°	27017.0	100.0



REPORT NUMBER: P638150

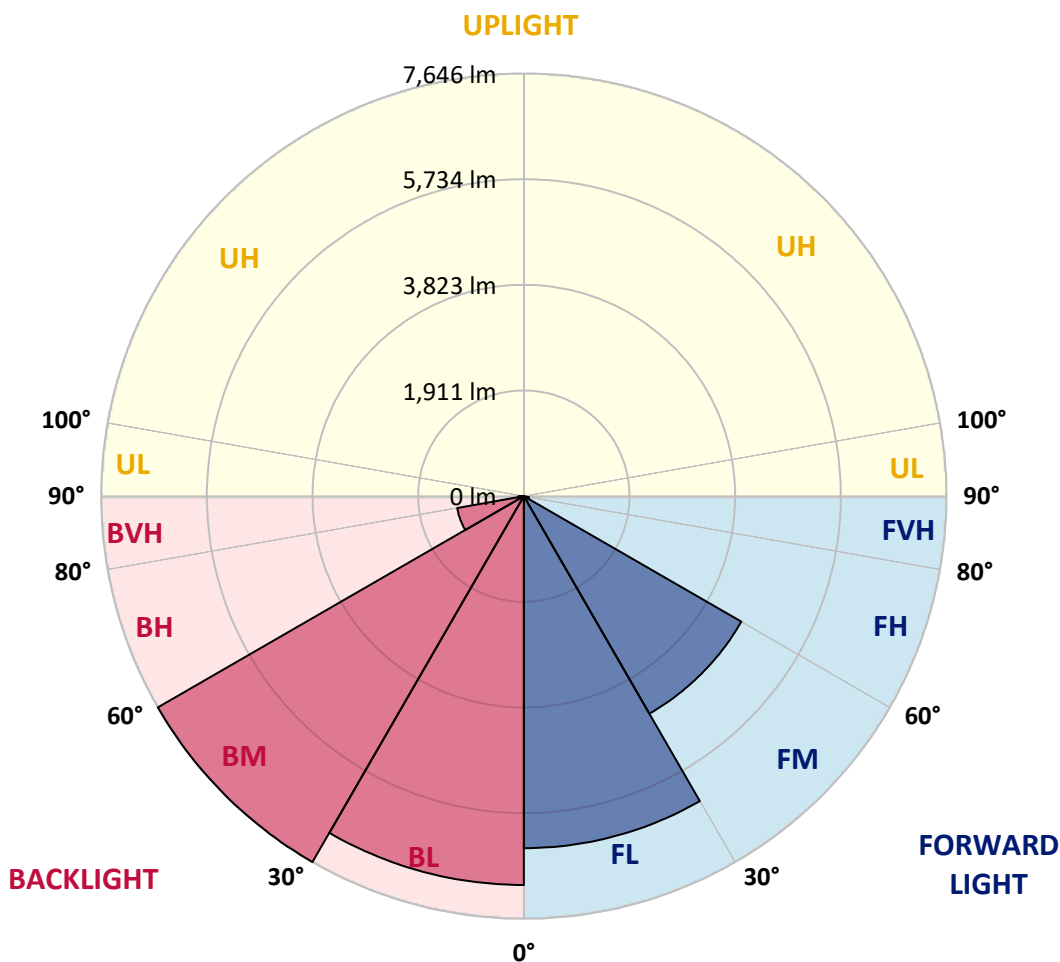
CATALOG NUMBER: IFLD-L-SA7B-735-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6368.9	23.6			
FM (30°-60°)	4543.8	16.8			
FH (60°-80°)	95.2	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	7035.6	26.0	B5		
BM (30°-60°)	7645.6	28.3	B4/8500		
BH (60°-80°)	1224.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	95.2	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





REPORT NUMBER: P638150
 CATALOG NUMBER: IFLD-L-SA7B-735-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8
2.5°	20521.8	20548.4	20403.9	20419.1	20445.7	20639.7	20590.3	20544.6	20479.9	20590.3
5°	20495.2	20510.4	20358.2	20304.9	20327.8	20502.8	20343.0	20343.0	20327.8	20308.7
7.5°	20289.7	20297.3	20179.4	20084.3	20145.1	20225.0	20107.1	20164.2	20080.5	20145.1
10°	19981.5	19932.1	19791.3	19764.7	19833.2	19909.3	19829.4	19882.6	19806.5	19856.0
12.5°	19528.8	19452.7	19338.6	19304.3	19422.3	19525.0	19460.3	19429.9	19331.0	19452.7
15°	17782.5	17725.4	17984.2	18436.9	18844.0	18931.5	18863.0	18893.4	18688.0	18722.2
17.5°	14636.1	14529.6	14807.3	15880.2	17409.7	18216.2	18155.4	17957.5	17653.2	17721.6
20°	13300.7	13270.3	13239.9	13494.8	14563.9	17010.2	17093.9	16591.7	16158.0	16062.8
22.5°	12547.4	12536.0	12505.6	12562.7	12844.2	14415.5	15374.2	14910.1	14620.9	14594.3
25°	11858.8	11839.8	11748.5	11820.8	11820.8	11912.1	13140.9	13422.5	13167.6	13137.1
27.5°	11158.8	11124.5	11109.3	11143.6	10968.5	10352.2	10664.2	12037.6	11904.5	11912.1
30°	10401.7	10390.3	10348.4	10420.7	9880.4	9115.7	8917.9	10782.1	10808.8	10801.1
32.5°	9275.5	9325.0	9515.2	9595.1	8704.8	8073.3	7742.3	9328.8	9872.8	9861.4
35°	6737.9	6737.9	7358.0	8510.8	7628.1	7152.6	6973.8	7909.7	8948.3	8986.4
37.5°	5539.4	5558.5	5680.2	6205.2	6581.9	6414.5	6361.2	6658.0	7761.3	7822.2
40°	4984.0	4984.0	4984.0	4767.1	4755.7	5779.1	5748.7	5653.6	6703.6	6836.8
42.5°	4478.0	4489.4	4497.0	3949.1	3644.8	4995.4	4926.9	4782.3	5756.3	5912.3
45°	3956.7	3975.8	3998.6	3302.4	3169.2	3595.3	4169.8	4010.0	4820.4	5022.0
47.5°	2415.9	2446.3	2963.8	2800.2	2815.4	2773.5	3401.3	3374.6	3952.9	4238.3
50°	1632.2	1643.6	1693.0	1776.7	2415.9	2180.0	2408.3	2792.5	3001.8	3435.5
52.5°	1369.6	1388.7	1266.9	1152.8	1586.5	1704.4	1681.6	2073.5	2157.2	2693.6
55°	962.6	1023.4	966.4	954.9	901.7	1324.0	1274.5	1594.1	1647.4	2046.9
57.5°	98.9	114.1	197.8	711.5	589.7	749.5	909.3	1168.0	1221.3	1510.4
60°	7.6	7.6	19.0	98.9	429.9	448.9	627.8	719.1	821.8	1053.9
62.5°	0.0	3.8	7.6	15.2	68.5	239.7	315.8	376.7	494.6	681.0
65°	0.0	0.0	3.8	11.4	15.2	91.3	121.7	197.8	270.1	422.3
67.5°	0.0	0.0	3.8	7.6	11.4	22.8	41.9	72.3	144.6	239.7
70°	0.0	0.0	3.8	7.6	11.4	19.0	30.4	45.7	64.7	129.4
72.5°	0.0	0.0	3.8	3.8	7.6	19.0	22.8	30.4	45.7	64.7
75°	0.0	0.0	3.8	3.8	11.4	22.8	19.0	22.8	30.4	41.9
77.5°	0.0	0.0	3.8	7.6	11.4	22.8	19.0	22.8	22.8	26.6
80°	0.0	0.0	3.8	7.6	15.2	26.6	22.8	22.8	19.0	19.0
82.5°	0.0	0.0	3.8	11.4	15.2	34.2	34.2	30.4	15.2	11.4
85°	0.0	0.0	7.6	15.2	22.8	38.0	38.0	30.4	11.4	7.6
87.5°	0.0	0.0	7.6	11.4	19.0	26.6	38.0	30.4	11.4	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638150

CATALOG NUMBER: IFLD-L-SA7B-735-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
20559.8	0°	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8	20559.8
20495.2	2.5°	20597.9	20575.1	20651.1	20681.6	20723.4	20563.6	20464.7	20468.5	20285.9
20263.1	5°	20384.8	20388.6	20487.6	20479.9	20521.8	20434.3	20396.2	20331.6	20171.8
19970.1	7.5°	20114.7	20080.5	20175.6	20247.9	20141.3	20202.2	20114.7	20145.1	20050.0
19711.4	10°	19905.5	19825.6	19913.1	19962.5	19966.3	19905.5	19821.8	19741.9	19707.6
19308.1	12.5°	19441.3	19338.6	19487.0	19555.4	19544.0	19426.1	19331.0	19350.0	19239.7
18600.5	15°	18802.1	18805.9	18912.5	18977.1	18916.3	18889.6	18897.2	18851.6	18756.5
17622.7	17.5°	17824.4	17881.4	18163.0	18319.0	18353.2	18299.9	18273.3	18220.0	18124.9
16062.8	20°	16196.0	16538.4	17040.6	17523.8	17618.9	17603.7	17508.6	17485.8	17432.5
14518.2	22.5°	14765.5	15020.4	15602.5	16355.8	16743.9	16781.9	16667.8	16633.5	16576.5
13137.1	25°	13285.5	13559.4	14084.5	14902.5	15705.2	15868.8	15849.8	15747.1	15686.2
11912.1	27.5°	12037.6	12311.6	12787.1	13525.2	14385.0	14910.1	14959.5	14795.9	14792.1
10820.2	30°	10911.5	11288.1	11649.6	12250.7	13083.9	13871.4	13955.1	13841.0	13852.4
9819.6	32.5°	10028.8	10340.8	10649.0	11052.2	11744.7	12661.6	12988.8	12882.2	12840.4
8986.4	35°	9127.1	9340.2	9656.0	10025.0	10496.8	11406.1	11972.9	11893.1	11851.2
7860.2	37.5°	8099.9	8465.1	8693.4	9108.1	9477.2	10200.0	10999.0	10987.6	10900.1
6901.5	40°	7046.0	7430.3	7776.5	8195.0	8480.4	9054.9	9941.3	9937.5	9948.9
5908.5	42.5°	6091.1	6444.9	6863.4	7320.0	7593.9	8012.4	8963.5	9016.8	9081.5
5090.5	45°	5227.5	5547.0	5935.1	6490.6	6821.6	7061.3	7905.9	8149.4	8145.6
4360.0	47.5°	4451.3	4751.9	5079.1	5619.3	6041.6	6258.5	6958.5	7304.8	7281.9
3576.3	50°	3736.1	4002.4	4344.8	4736.7	5303.6	5493.8	6015.0	6471.6	6437.3
2849.6	52.5°	3005.6	3374.6	3663.8	4021.4	4618.7	4805.2	5208.4	5653.6	5626.9
2138.2	55°	2343.6	2701.2	3051.3	3359.4	3861.6	4139.4	4428.5	4885.1	4877.4
1674.0	57.5°	1772.9	2164.8	2495.8	2788.7	3188.2	3530.6	3762.7	4177.4	4230.7
1145.2	60°	1312.6	1613.1	1970.8	2298.0	2613.7	2967.6	3123.5	3530.6	3553.5
783.7	62.5°	894.1	1225.1	1575.1	1871.8	2107.7	2473.0	2613.7	2948.5	2990.4
502.2	65°	620.1	833.2	1232.7	1445.7	1734.9	2046.9	2187.6	2453.9	2537.6
289.1	67.5°	410.9	593.5	962.6	1156.6	1441.9	1655.0	1833.8	2050.7	2142.0
182.6	70°	224.5	437.5	688.6	913.1	1160.4	1365.8	1540.8	1715.9	1795.8
83.7	72.5°	152.2	293.0	479.4	722.9	935.9	1137.6	1293.6	1422.9	1426.7
49.5	75°	76.1	197.8	365.2	559.3	730.5	928.3	1069.1	1145.2	1053.9
30.4	77.5°	45.7	144.6	296.8	448.9	593.5	749.5	829.4	871.2	722.9
22.8	80°	26.6	102.7	232.1	357.6	410.9	551.7	627.8	639.2	483.2
15.2	82.5°	19.0	76.1	182.6	262.5	251.1	388.1	471.8	456.5	308.2
11.4	85°	11.4	53.3	114.1	163.6	152.2	254.9	273.9	281.5	178.8
7.6	87.5°	7.6	30.4	60.9	87.5	72.3	110.3	110.3	133.2	87.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
20559.8
20050.0
20133.7
19890.2
19555.4
19144.5
18661.4
18083.1
17310.7
16561.2
15621.5
14784.5
13795.3
12844.2
11794.1
10972.3
9948.9
9047.2
8153.2
7289.5
6467.8
5684.0
4896.5
4207.8
3587.7
2998.0
2518.6
2130.6
1765.3
1392.5
985.4
696.2
452.7
285.3
163.6
76.1
0.0

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