

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: P638164

Luminaire Tested: **IFLD-S-SA3B-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638164
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13088.3 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4
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

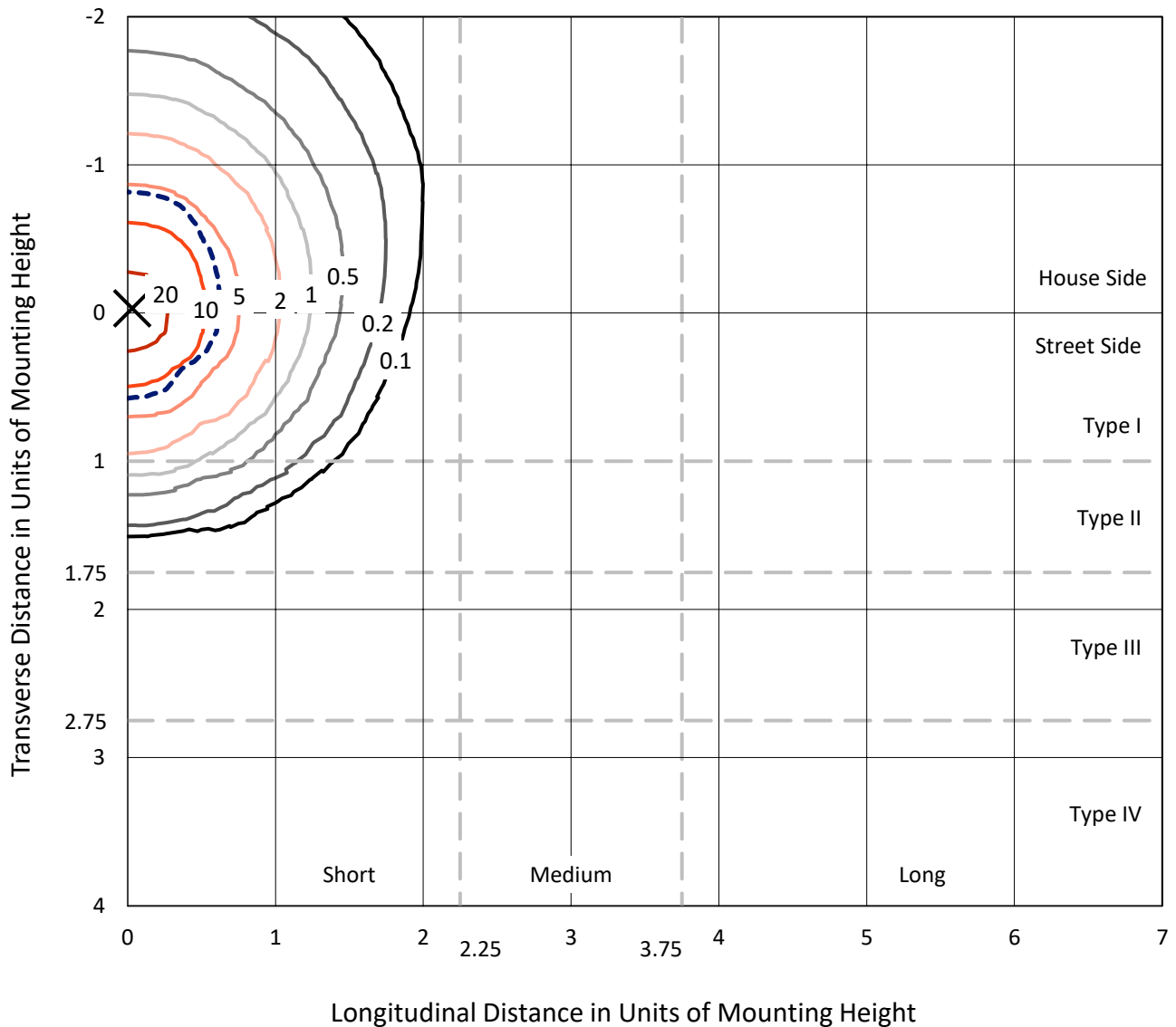




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Iso-Footcandle Lines of Horizontal Illumination

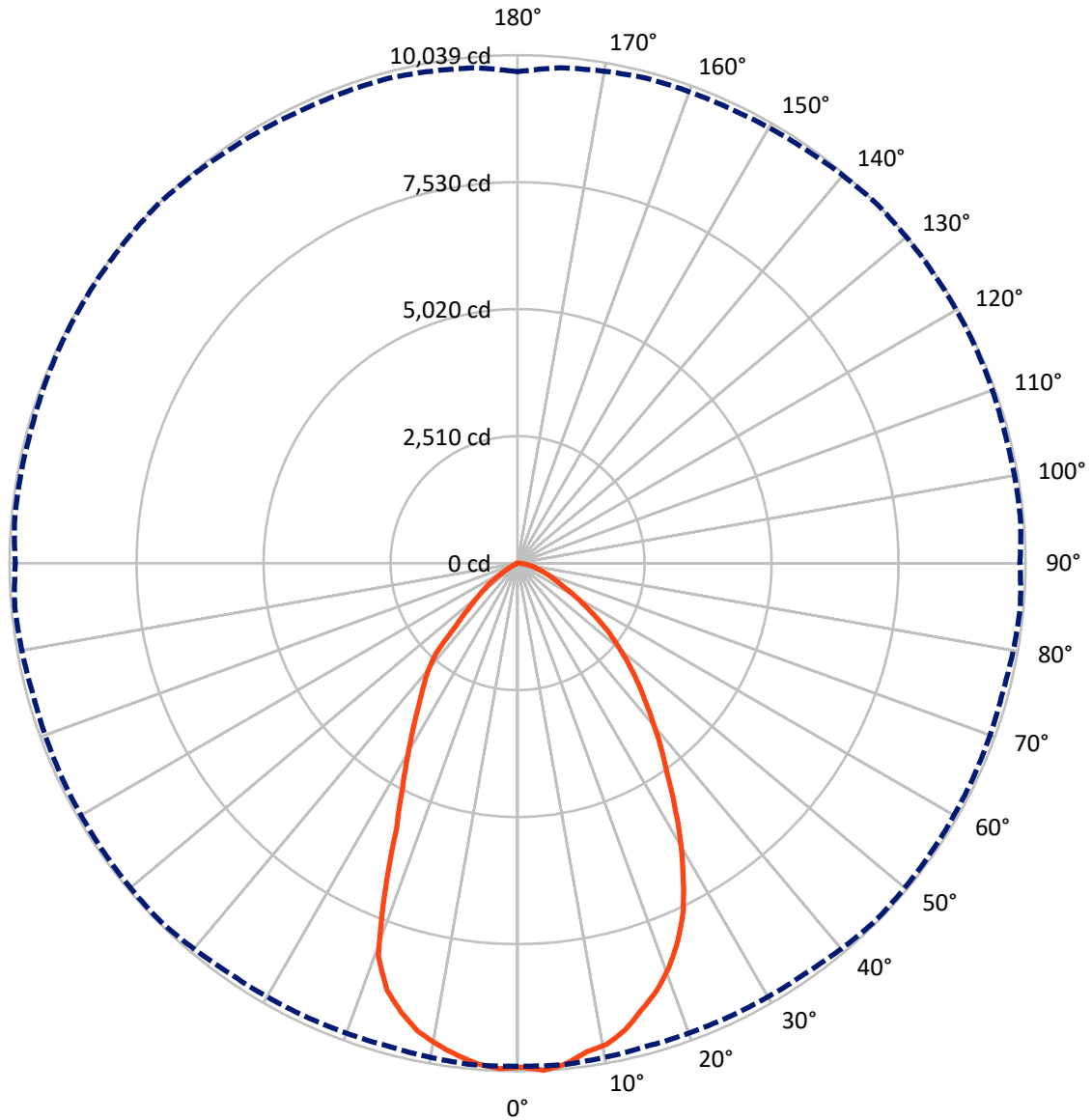
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.9 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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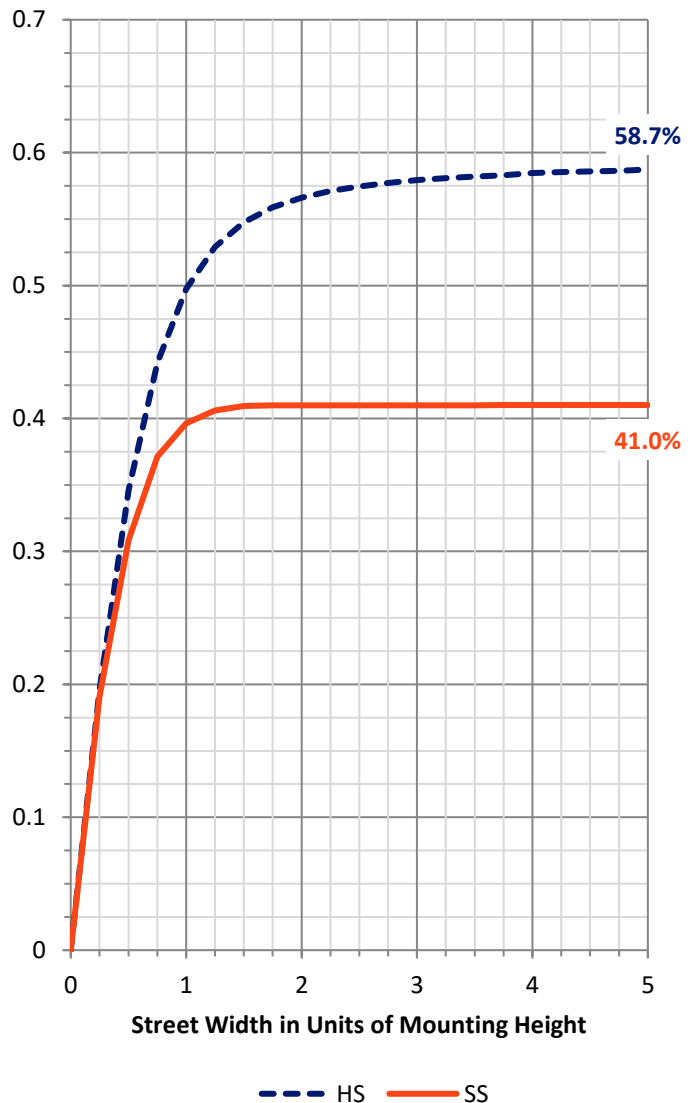
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7751.6	0.0	7751.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5336.7	0.0	5336.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	13088.3	0.0	13088.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.1	7.1
10°-20°	2504.9	19.1
20°-30°	3054.8	23.3
30°-40°	2789.0	21.3
40°-50°	2015.6	15.4
50°-60°	1100.5	8.4
60°-70°	455.0	3.5
70°-80°	184.3	1.4
80°-90°	50.1	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°	13088.3	100.0
0°-180°	13088.3	100.0



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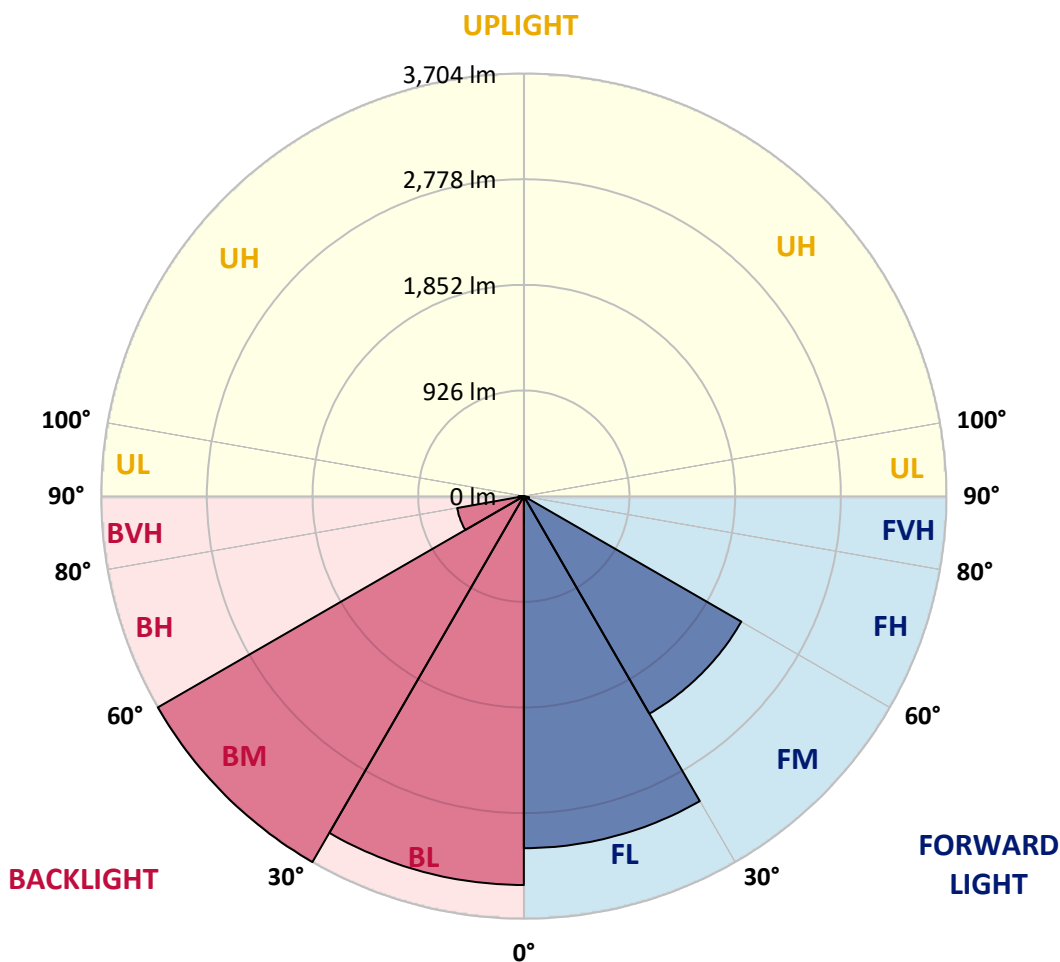
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3085.4	23.6			
FM (30°-60°)	2201.2	16.8			
FH (60°-80°)	46.1	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	3408.4	26.0	B4/5000		
BM (30°-60°)	3703.9	28.3	B3/5000		
BH (60°-80°)	593.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	46.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2
2.5°	9941.8	9954.7	9884.6	9892.0	9904.9	9998.9	9974.9	9952.8	9921.5	9974.9
5°	9928.8	9936.2	9862.5	9836.7	9847.8	9932.5	9855.1	9855.1	9847.8	9838.5
7.5°	9829.3	9833.0	9775.9	9729.8	9759.3	9798.0	9740.9	9768.5	9728.0	9759.3
10°	9680.0	9656.1	9587.9	9575.0	9608.1	9645.0	9606.3	9632.1	9595.2	9619.2
12.5°	9460.7	9423.8	9368.5	9352.0	9409.1	9458.9	9427.5	9412.8	9364.9	9423.8
15°	8614.7	8587.1	8712.4	8931.7	9128.9	9171.3	9138.2	9152.9	9053.4	9070.0
17.5°	7090.5	7038.8	7173.4	7693.2	8434.1	8824.8	8795.3	8699.5	8552.0	8585.2
20°	6443.5	6428.8	6414.0	6537.5	7055.4	8240.6	8281.1	8037.8	7827.7	7781.6
22.5°	6078.6	6073.1	6058.3	6086.0	6222.3	6983.6	7448.0	7223.2	7083.1	7070.2
25°	5745.0	5735.8	5691.5	5726.6	5726.6	5770.8	6366.1	6502.5	6379.0	6364.3
27.5°	5405.9	5389.3	5381.9	5398.5	5313.7	5015.1	5166.2	5831.6	5767.1	5770.8
30°	5039.1	5033.5	5013.3	5048.3	4786.6	4416.1	4320.3	5223.4	5236.3	5232.6
32.5°	4493.5	4517.5	4609.6	4648.3	4217.0	3911.1	3750.7	4519.3	4782.9	4777.3
35°	3264.2	3264.2	3564.6	4123.0	3695.4	3465.1	3378.4	3831.8	4335.0	4353.4
37.5°	2683.6	2692.8	2751.8	3006.1	3188.6	3107.5	3081.7	3225.4	3760.0	3789.4
40°	2414.5	2414.5	2414.5	2309.4	2303.9	2799.7	2784.9	2738.9	3247.6	3312.1
42.5°	2169.3	2174.9	2178.6	1913.2	1765.7	2420.0	2386.8	2316.8	2788.6	2864.2
45°	1916.8	1926.1	1937.1	1599.8	1535.3	1741.7	2020.1	1942.6	2335.2	2432.9
47.5°	1170.4	1185.1	1435.8	1356.5	1363.9	1343.6	1647.7	1634.8	1915.0	2053.2
50°	790.7	796.2	820.2	860.7	1170.4	1056.1	1166.7	1352.8	1454.2	1664.3
52.5°	663.5	672.7	613.8	558.5	768.6	825.7	814.7	1004.5	1045.0	1304.9
55°	466.3	495.8	468.2	462.6	436.8	641.4	617.4	772.3	798.1	991.6
57.5°	47.9	55.3	95.8	344.7	285.7	363.1	440.5	565.8	591.6	731.7
60°	3.7	3.7	9.2	47.9	208.3	217.5	304.1	348.3	398.1	510.5
62.5°	0.0	1.8	3.7	7.4	33.2	116.1	153.0	182.5	239.6	329.9
65°	0.0	0.0	1.8	5.5	7.4	44.2	59.0	95.8	130.9	204.6
67.5°	0.0	0.0	1.8	3.7	5.5	11.1	20.3	35.0	70.0	116.1
70°	0.0	0.0	1.8	3.7	5.5	9.2	14.7	22.1	31.3	62.7
72.5°	0.0	0.0	1.8	1.8	3.7	9.2	11.1	14.7	22.1	31.3
75°	0.0	0.0	1.8	1.8	5.5	11.1	9.2	11.1	14.7	20.3
77.5°	0.0	0.0	1.8	3.7	5.5	11.1	9.2	11.1	11.1	12.9
80°	0.0	0.0	1.8	3.7	7.4	12.9	11.1	11.1	9.2	9.2
82.5°	0.0	0.0	1.8	5.5	7.4	16.6	16.6	14.7	7.4	5.5
85°	0.0	0.0	3.7	7.4	11.1	18.4	18.4	14.7	5.5	3.7
87.5°	0.0	0.0	3.7	5.5	9.2	12.9	18.4	14.7	5.5	1.8
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°
9960.2	0°	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2	9960.2
9928.8	2.5°	9978.6	9967.6	10004.4	10019.2	10039.4	9962.0	9914.1	9915.9	9827.5
9816.4	5°	9875.4	9877.2	9925.2	9921.5	9941.8	9899.4	9880.9	9849.6	9772.2
9674.5	7.5°	9744.5	9728.0	9774.0	9809.0	9757.4	9786.9	9744.5	9759.3	9713.2
9549.2	10°	9643.2	9604.5	9646.9	9670.8	9672.7	9643.2	9602.6	9563.9	9547.3
9353.8	12.5°	9418.3	9368.5	9440.4	9473.6	9468.1	9410.9	9364.9	9374.1	9320.6
9011.0	15°	9108.7	9110.5	9162.1	9193.4	9164.0	9151.1	9154.7	9132.6	9086.5
8537.3	17.5°	8635.0	8662.6	8799.0	8874.6	8891.2	8865.4	8852.5	8826.7	8780.6
7781.6	20°	7846.1	8012.0	8255.3	8489.4	8535.5	8528.1	8482.0	8470.9	8445.1
7033.3	22.5°	7153.1	7276.6	7558.6	7923.5	8111.5	8130.0	8074.7	8058.1	8030.4
6364.3	25°	6436.2	6568.9	6823.2	7219.5	7608.4	7687.6	7678.4	7628.6	7599.2
5770.8	27.5°	5831.6	5964.3	6194.7	6552.3	6968.8	7223.2	7247.1	7167.9	7166.0
5241.8	30°	5286.0	5468.5	5643.6	5934.8	6338.5	6720.0	6760.5	6705.2	6710.8
4757.1	32.5°	4858.4	5009.6	5158.9	5354.2	5689.7	6133.9	6292.4	6240.8	6220.5
4353.4	35°	4421.6	4524.8	4677.8	4856.6	5085.1	5525.7	5800.3	5761.6	5741.3
3807.9	37.5°	3924.0	4100.9	4211.5	4412.4	4591.2	4941.4	5328.4	5322.9	5280.5
3343.4	40°	3413.4	3599.6	3767.3	3970.1	4108.3	4386.6	4816.1	4814.2	4819.7
2862.4	42.5°	2950.8	3122.2	3325.0	3546.1	3678.9	3881.6	4342.4	4368.2	4399.5
2466.1	45°	2532.4	2687.3	2875.3	3144.4	3304.7	3420.8	3830.0	3947.9	3946.1
2112.2	47.5°	2156.4	2302.0	2460.6	2722.3	2926.9	3031.9	3371.1	3538.8	3527.7
1732.5	50°	1809.9	1939.0	2104.8	2294.7	2569.3	2661.5	2914.0	3135.1	3118.5
1380.5	52.5°	1456.1	1634.8	1774.9	1948.2	2237.5	2327.9	2523.2	2738.9	2726.0
1035.8	55°	1135.4	1308.6	1478.2	1627.5	1870.8	2005.3	2145.4	2366.6	2362.9
811.0	57.5°	858.9	1048.7	1209.1	1351.0	1544.5	1710.4	1822.8	2023.7	2049.5
554.8	60°	635.9	781.5	954.7	1113.2	1266.2	1437.6	1513.2	1710.4	1721.5
379.7	62.5°	433.1	593.5	763.0	906.8	1021.1	1198.0	1266.2	1428.4	1448.7
243.3	65°	300.4	403.6	597.2	700.4	840.5	991.6	1059.8	1188.8	1229.4
140.1	67.5°	199.1	287.5	466.3	560.3	698.5	801.8	888.4	993.4	1037.7
88.5	70°	108.7	212.0	333.6	442.3	562.1	661.7	746.5	831.2	869.9
40.5	72.5°	73.7	141.9	232.2	350.2	453.4	551.1	626.7	689.3	691.2
24.0	75°	36.9	95.8	176.9	270.9	353.9	449.7	517.9	554.8	510.5
14.7	77.5°	22.1	70.0	143.8	217.5	287.5	363.1	401.8	422.1	350.2
11.1	80°	12.9	49.8	112.4	173.3	199.1	267.3	304.1	309.6	234.1
7.4	82.5°	9.2	36.9	88.5	127.2	121.6	188.0	228.5	221.2	149.3
5.5	85°	5.5	25.8	55.3	79.3	73.7	123.5	132.7	136.4	86.6
3.7	87.5°	3.7	14.7	29.5	42.4	35.0	53.5	53.5	64.5	42.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9960.2
9713.2
9753.8
9635.8
9473.6
9274.5
9040.5
8760.3
8386.2
8023.1
7567.8
7162.3
6683.1
6222.3
5713.7
5315.5
4819.7
4382.9
3949.8
3531.4
3133.3
2753.6
2372.1
2038.5
1738.1
1452.4
1220.1
1032.1
855.2
674.6
477.4
337.3
219.3
138.2
79.3
36.9
0.0

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