

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: P638052

Luminaire Tested: **IFLD-S-SA6A-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638052
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15292 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

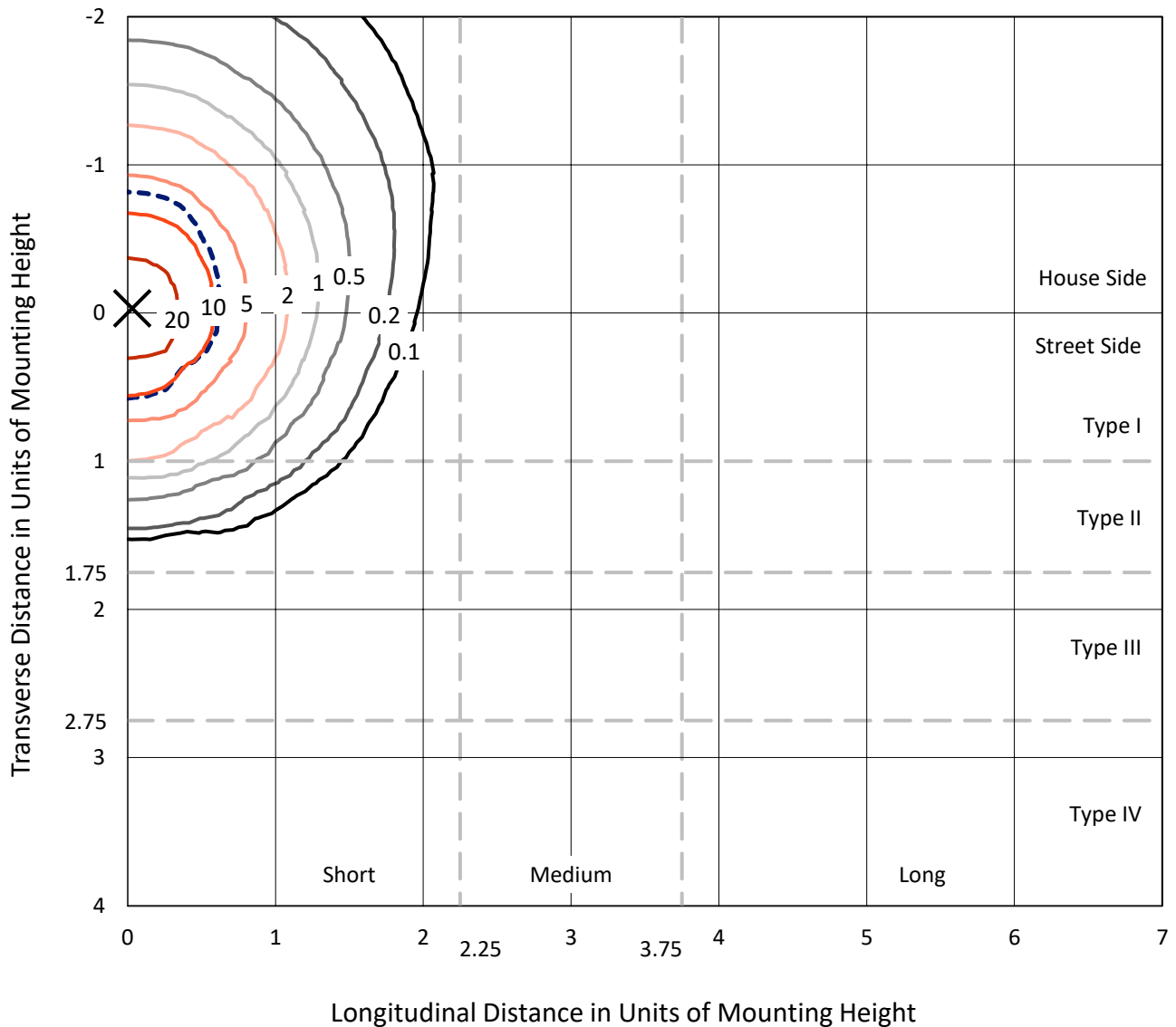
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

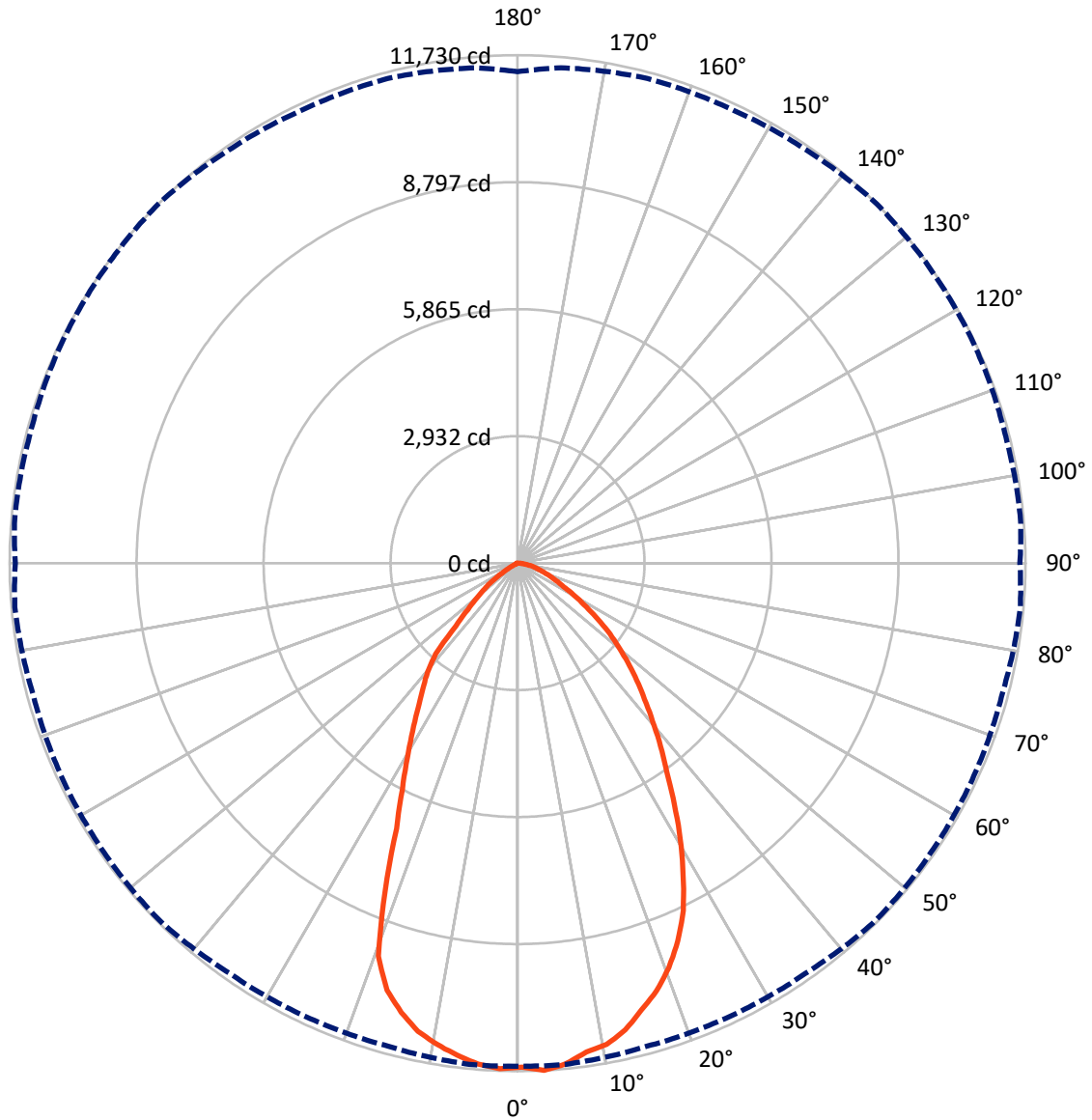
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.1 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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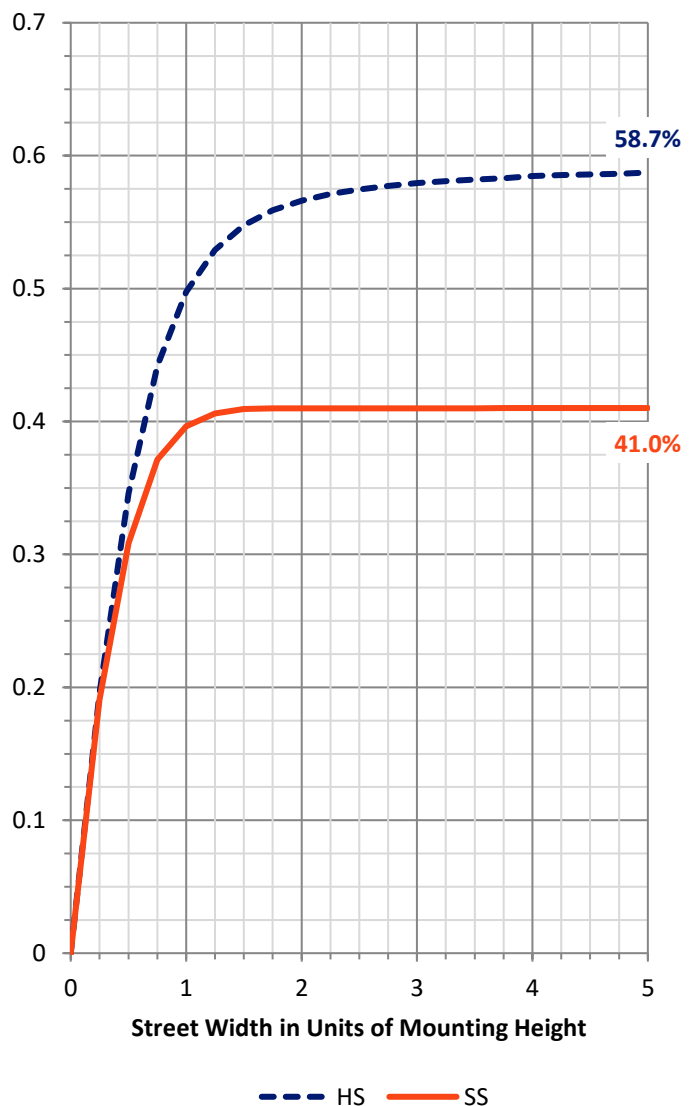
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9056.7	0.0	9056.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6235.3	0.0	6235.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	15292.0	0.0	15292.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1091.4	7.1
10°-20°	2926.6	19.1
20°-30°	3569.2	23.3
30°-40°	3258.6	21.3
40°-50°	2354.9	15.4
50°-60°	1285.8	8.4
60°-70°	531.6	3.5
70°-80°	215.3	1.4
80°-90°	58.6	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°	15292.0	100.0
0°-180°	15292.0	100.0



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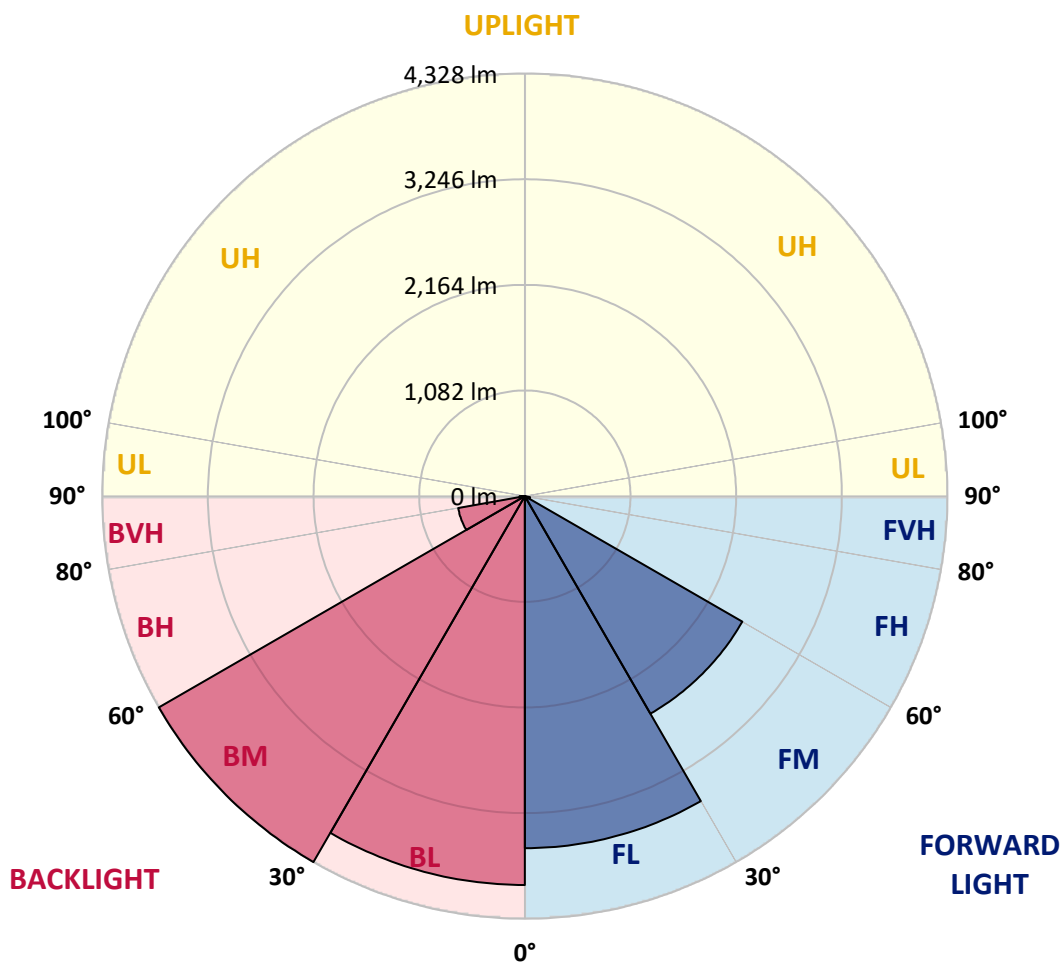
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3604.9	23.6			
FM (30°-60°)	2571.8	16.8			
FH (60°-80°)	53.9	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	3982.3	26.0	B4/5000		
BM (30°-60°)	4327.5	28.3	B3/5000		
BH (60°-80°)	693.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	53.9	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°	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2
2.5°	11615.6	11630.7	11548.9	11557.5	11572.6	11682.4	11654.4	11628.5	11591.9	11654.4
5°	11600.5	11609.2	11523.0	11492.9	11505.8	11604.9	11514.4	11514.4	11505.8	11495.0
7.5°	11484.3	11488.6	11421.8	11368.0	11402.4	11447.7	11380.9	11413.2	11365.8	11402.4
10°	11309.8	11281.8	11202.2	11187.1	11225.9	11268.9	11223.7	11253.8	11210.8	11238.8
12.5°	11053.6	11010.5	10945.9	10926.5	10993.3	11051.4	11014.8	10997.6	10941.6	11010.5
15°	10065.2	10032.8	10179.3	10435.5	10666.0	10715.5	10676.7	10694.0	10577.7	10597.0
17.5°	8284.3	8224.0	8381.2	8988.4	9854.1	10310.6	10276.2	10164.2	9991.9	10030.7
20°	7528.4	7511.2	7494.0	7638.2	8243.3	9628.0	9675.4	9391.1	9145.6	9091.8
22.5°	7102.0	7095.6	7078.3	7110.6	7270.0	8159.4	8702.0	8439.3	8275.6	8260.6
25°	6712.3	6701.5	6649.8	6690.7	6690.7	6742.4	7438.0	7597.3	7453.0	7435.8
27.5°	6316.0	6296.6	6288.0	6307.4	6208.4	5859.5	6036.1	6813.5	6738.1	6742.4
30°	5887.5	5881.0	5857.3	5898.3	5592.5	5159.6	5047.6	6102.8	6117.9	6113.6
32.5°	5250.1	5278.1	5385.7	5431.0	4927.1	4569.6	4382.2	5280.2	5588.2	5581.7
35°	3813.7	3813.7	4164.7	4817.2	4317.6	4048.5	3947.2	4477.0	5064.9	5086.4
37.5°	3135.4	3146.2	3215.1	3512.3	3725.4	3630.7	3600.5	3768.5	4393.0	4427.5
40°	2821.0	2821.0	2821.0	2698.3	2691.8	3271.1	3253.8	3200.0	3794.4	3869.7
42.5°	2534.6	2541.1	2545.4	2235.3	2063.0	2827.5	2788.7	2706.9	3258.1	3346.4
45°	2239.6	2250.3	2263.3	1869.2	1793.8	2035.0	2360.2	2269.7	2728.4	2842.5
47.5°	1367.4	1384.7	1677.5	1584.9	1593.5	1569.9	1925.2	1910.1	2237.4	2398.9
50°	923.8	930.3	958.3	1005.7	1367.4	1233.9	1363.1	1580.6	1699.1	1944.6
52.5°	775.2	786.0	717.1	652.5	898.0	964.7	951.8	1173.6	1221.0	1524.6
55°	544.8	579.3	547.0	540.5	510.4	749.4	721.4	902.3	932.4	1158.5
57.5°	56.0	64.6	112.0	402.7	333.8	424.2	514.7	661.1	691.3	854.9
60°	4.3	4.3	10.8	56.0	243.3	254.1	355.3	407.0	465.1	596.5
62.5°	0.0	2.2	4.3	8.6	38.8	135.7	178.7	213.2	279.9	385.5
65°	0.0	0.0	2.2	6.5	8.6	51.7	68.9	112.0	152.9	239.0
67.5°	0.0	0.0	2.2	4.3	6.5	12.9	23.7	40.9	81.8	135.7
70°	0.0	0.0	2.2	4.3	6.5	10.8	17.2	25.8	36.6	73.2
72.5°	0.0	0.0	2.2	2.2	4.3	10.8	12.9	17.2	25.8	36.6
75°	0.0	0.0	2.2	2.2	6.5	12.9	10.8	12.9	17.2	23.7
77.5°	0.0	0.0	2.2	4.3	6.5	12.9	10.8	12.9	12.9	15.1
80°	0.0	0.0	2.2	4.3	8.6	15.1	12.9	12.9	10.8	10.8
82.5°	0.0	0.0	2.2	6.5	8.6	19.4	19.4	17.2	8.6	6.5
85°	0.0	0.0	4.3	8.6	12.9	21.5	21.5	17.2	6.5	4.3
87.5°	0.0	0.0	4.3	6.5	10.8	15.1	21.5	17.2	6.5	2.2
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°
11637.2	0°	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2	11637.2
11600.5	2.5°	11658.7	11645.8	11688.8	11706.1	11729.8	11639.3	11583.3	11585.5	11482.1
11469.2	5°	11538.1	11540.3	11596.2	11591.9	11615.6	11566.1	11544.6	11508.0	11417.5
11303.4	7.5°	11385.2	11365.8	11419.7	11460.6	11400.3	11434.7	11385.2	11402.4	11348.6
11156.9	10°	11266.8	11221.5	11271.1	11299.1	11301.2	11266.8	11219.4	11174.2	11154.8
10928.7	12.5°	11004.0	10945.9	11029.9	11068.7	11062.2	10995.4	10941.6	10952.4	10889.9
10528.1	15°	10642.3	10644.4	10704.7	10741.3	10706.9	10691.8	10696.1	10670.3	10616.4
9974.7	17.5°	10088.8	10121.1	10280.5	10368.8	10388.2	10358.0	10342.9	10312.8	10259.0
9091.8	20°	9167.2	9361.0	9645.2	9918.7	9972.6	9963.9	9910.1	9897.2	9867.0
8217.5	22.5°	8357.5	8501.8	8831.2	9257.6	9477.3	9498.8	9434.2	9414.8	9382.5
7435.8	25°	7519.8	7674.8	7972.0	8435.0	8889.4	8982.0	8971.2	8913.1	8878.6
6742.4	27.5°	6813.5	6968.5	7237.7	7655.5	8142.1	8439.3	8467.3	8374.7	8372.6
6124.4	30°	6176.0	6389.2	6593.8	6934.1	7405.7	7851.4	7898.8	7834.2	7840.7
5558.0	32.5°	5676.5	5853.0	6027.5	6255.7	6647.7	7166.6	7351.8	7291.5	7267.8
5086.4	35°	5166.1	5286.7	5465.4	5674.3	5941.3	6456.0	6776.9	6731.6	6707.9
4449.0	37.5°	4584.7	4791.4	4920.6	5155.3	5364.2	5773.4	6225.6	6219.1	6169.6
3906.3	40°	3988.2	4205.7	4401.6	4638.5	4800.0	5125.2	5626.9	5624.8	5631.2
3344.3	42.5°	3447.6	3647.9	3884.8	4143.2	4298.3	4535.1	5073.5	5103.6	5140.2
2881.3	45°	2958.8	3139.7	3359.4	3673.8	3861.1	3996.8	4474.8	4612.7	4610.5
2467.8	47.5°	2519.5	2689.6	2874.8	3180.6	3419.7	3542.4	3938.6	4134.6	4121.7
2024.2	50°	2114.7	2265.4	2459.2	2681.0	3001.9	3109.6	3404.6	3663.0	3643.6
1612.9	52.5°	1701.2	1910.1	2073.8	2276.2	2614.3	2719.8	2948.1	3200.0	3184.9
1210.2	55°	1326.5	1528.9	1727.1	1901.5	2185.7	2342.9	2506.6	2765.0	2760.7
947.5	57.5°	1003.5	1225.3	1412.7	1578.5	1804.6	1998.4	2129.7	2364.5	2394.6
648.2	60°	742.9	913.1	1115.5	1300.7	1479.4	1679.7	1768.0	1998.4	2011.3
443.6	62.5°	506.1	693.4	891.5	1059.5	1193.0	1399.7	1479.4	1668.9	1692.6
284.3	65°	351.0	471.6	697.7	818.3	982.0	1158.5	1238.2	1389.0	1436.3
163.7	67.5°	232.6	335.9	544.8	654.6	816.2	936.7	1038.0	1160.7	1212.4
103.4	70°	127.1	247.6	389.8	516.8	656.8	773.1	872.1	971.2	1016.4
47.4	72.5°	86.1	165.8	271.3	409.2	529.7	643.9	732.2	805.4	807.5
28.0	75°	43.1	112.0	206.7	316.6	413.5	525.4	605.1	648.2	596.5
17.2	77.5°	25.8	81.8	168.0	254.1	335.9	424.2	469.4	493.1	409.2
12.9	80°	15.1	58.1	131.4	202.4	232.6	312.2	355.3	361.8	273.5
8.6	82.5°	10.8	43.1	103.4	148.6	142.1	219.7	267.0	258.4	174.4
6.5	85°	6.5	30.1	64.6	92.6	86.1	144.3	155.0	159.4	101.2
4.3	87.5°	4.3	17.2	34.5	49.5	40.9	62.4	62.4	75.4	49.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11637.2
11348.6
11396.0
11258.2
11068.7
10836.1
10562.6
10235.3
9798.1
9373.9
8842.0
8368.2
7808.4
7270.0
6675.6
6210.5
5631.2
5120.9
4614.8
4126.0
3660.8
3217.2
2771.5
2381.7
2030.7
1696.9
1425.6
1205.9
999.2
788.2
557.7
394.1
256.3
161.5
92.6
43.1
0.0

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