

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: P636812

Luminaire Tested: **IFLD-M-SA4C-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636812
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15802.7 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

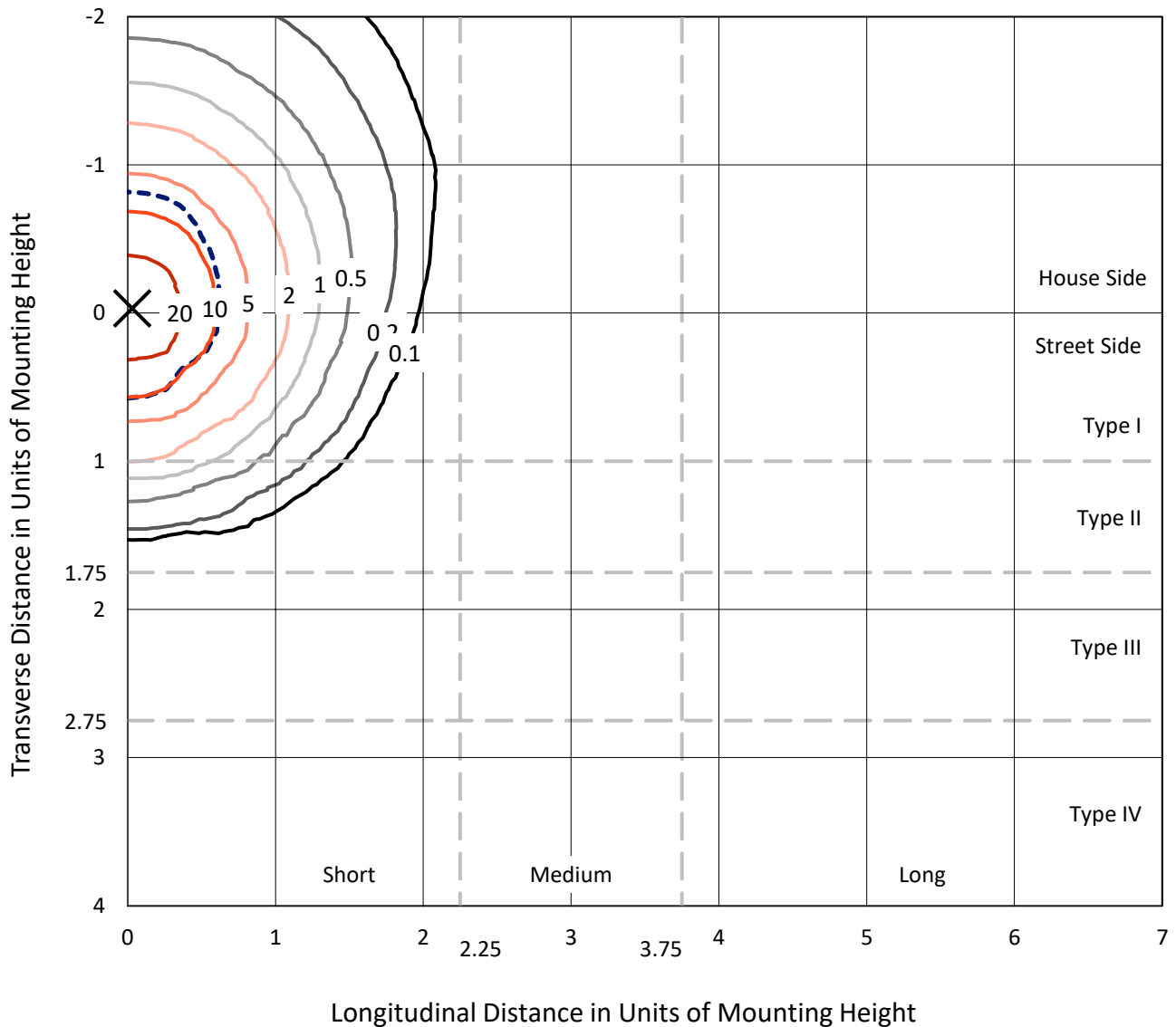
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

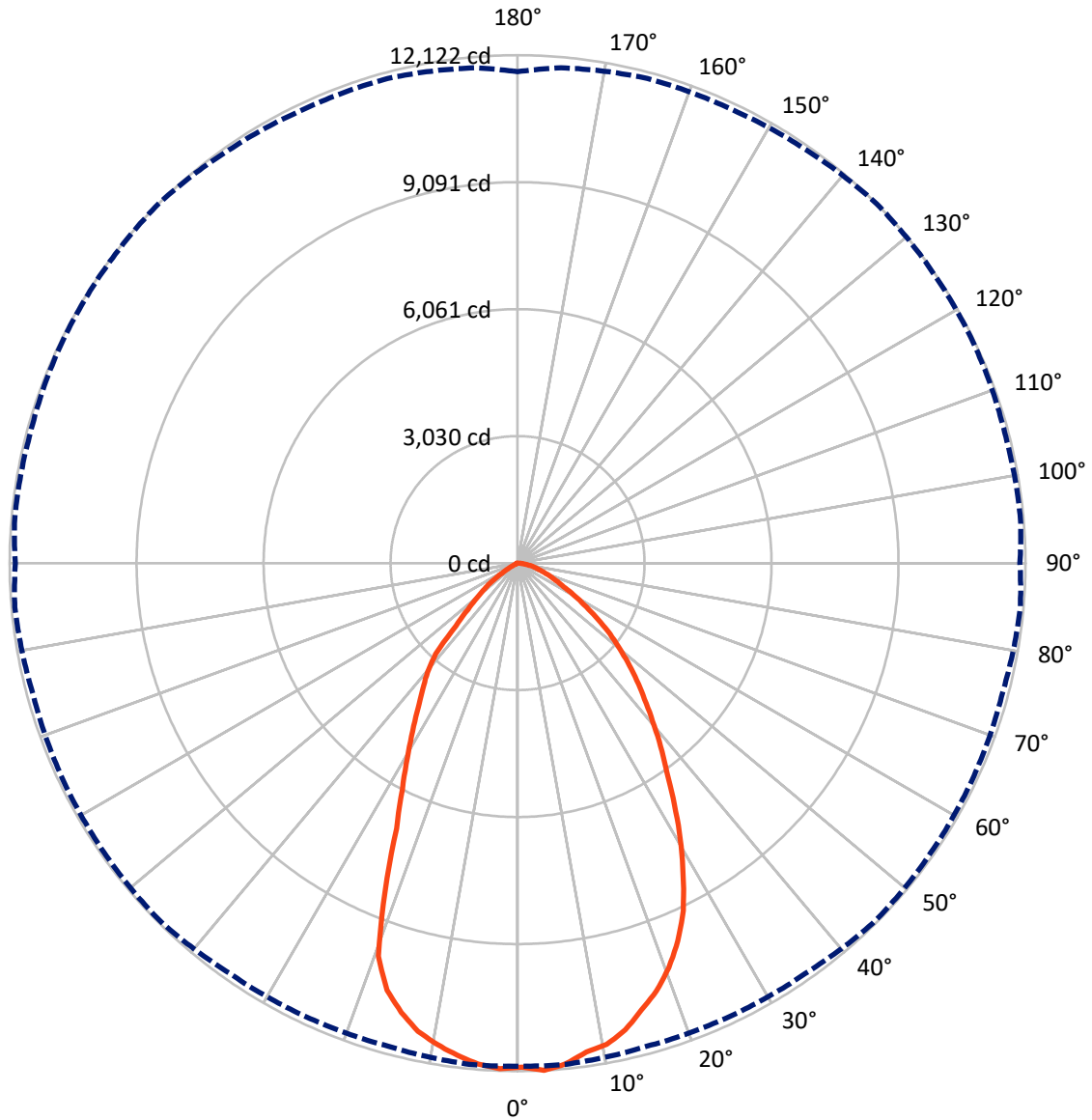
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.1 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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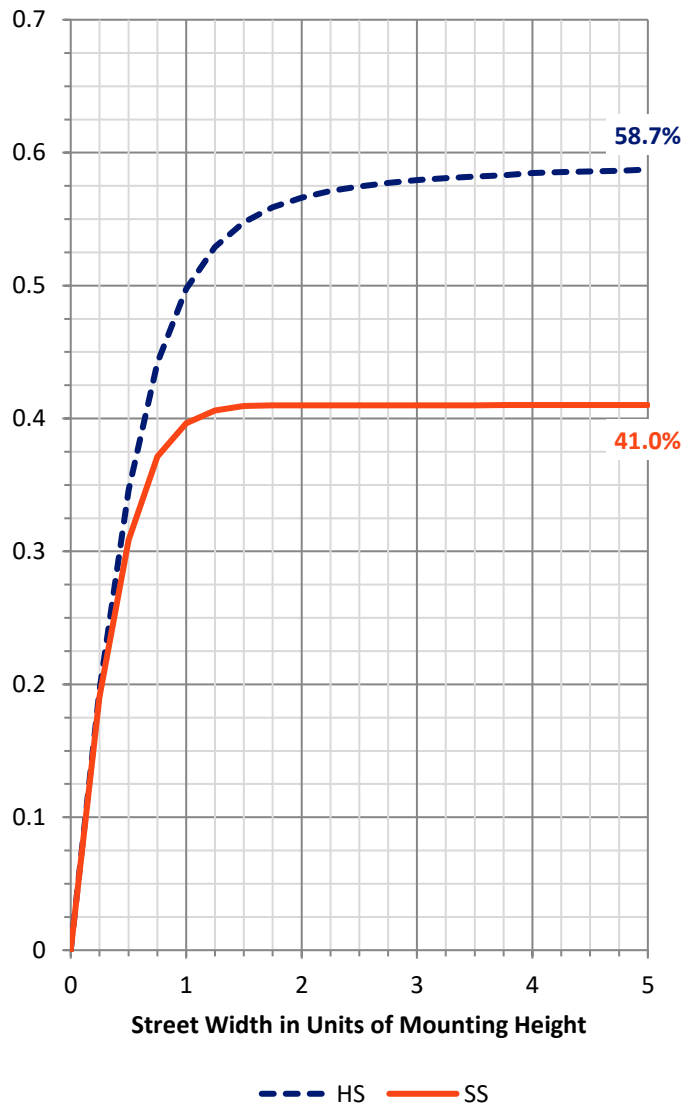
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9359.2	0.0	9359.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6443.5	0.0	6443.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	15802.7	0.0	15802.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1127.8	7.1
10°-20°	3024.3	19.1
20°-30°	3688.4	23.3
30°-40°	3367.4	21.3
40°-50°	2433.6	15.4
50°-60°	1328.7	8.4
60°-70°	549.4	3.5
70°-80°	222.5	1.4
80°-90°	60.5	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°	15802.7	100.0
0°-180°	15802.7	100.0



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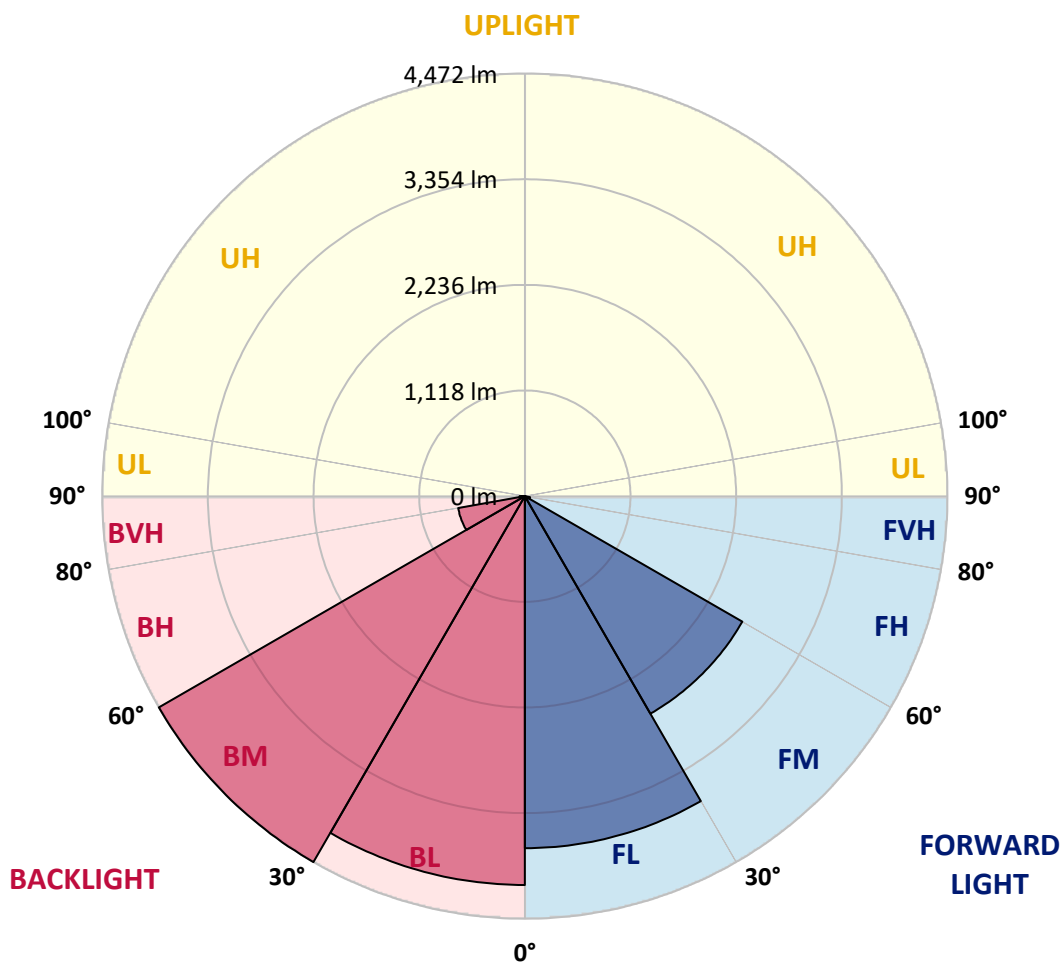
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3725.3	23.6			
FM (30°-60°)	2657.7	16.8			
FH (60°-80°)	55.7	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	4115.2	26.0	B4/5000		
BM (30°-60°)	4472.0	28.3	B3/5000		
BH (60°-80°)	716.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	55.7	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°	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8
2.5°	12003.5	12019.1	11934.6	11943.5	11959.0	12072.5	12043.6	12016.9	11979.1	12043.6
5°	11988.0	11996.9	11907.9	11876.7	11890.0	11992.4	11899.0	11899.0	11890.0	11878.9
7.5°	11867.8	11872.2	11803.3	11747.6	11783.2	11830.0	11761.0	11794.4	11745.4	11783.2
10°	11687.5	11658.6	11576.3	11560.7	11600.8	11645.3	11598.5	11629.7	11585.2	11614.1
12.5°	11422.7	11378.2	11311.5	11291.4	11360.4	11420.5	11382.7	11364.9	11307.0	11378.2
15°	10401.3	10367.9	10519.2	10784.0	11022.2	11073.3	11033.3	11051.1	10930.9	10951.0
17.5°	8560.9	8498.6	8661.1	9288.6	10183.2	10655.0	10619.4	10503.7	10325.6	10365.7
20°	7779.8	7762.0	7744.2	7893.3	8518.6	9949.5	9998.5	9704.8	9451.1	9395.4
22.5°	7339.2	7332.5	7314.7	7348.1	7512.8	8431.9	8992.6	8721.1	8552.0	8536.4
25°	6936.4	6925.3	6871.9	6914.2	6914.2	6967.6	7686.4	7851.0	7701.9	7684.1
27.5°	6527.0	6506.9	6498.0	6518.1	6415.7	6055.2	6237.7	7041.0	6963.1	6967.6
30°	6084.1	6077.4	6053.0	6095.2	5779.2	5331.9	5216.2	6306.6	6322.2	6317.8
32.5°	5425.4	5454.3	5565.6	5612.3	5091.6	4722.2	4528.6	5456.6	5774.8	5768.1
35°	3941.1	3941.1	4303.8	4978.1	4461.8	4183.7	4079.1	4626.5	5234.0	5256.3
37.5°	3240.1	3251.2	3322.4	3629.5	3849.9	3751.9	3720.8	3894.4	4539.7	4575.3
40°	2915.2	2915.2	2915.2	2788.4	2781.7	3380.3	3362.5	3306.9	3921.1	3999.0
42.5°	2619.2	2625.9	2630.4	2309.9	2131.9	2921.9	2881.8	2797.3	3367.0	3458.2
45°	2314.4	2325.5	2338.8	1931.6	1853.7	2103.0	2439.0	2345.5	2819.5	2937.5
47.5°	1413.1	1430.9	1733.5	1637.9	1646.8	1622.3	1989.5	1973.9	2312.1	2479.0
50°	954.7	961.4	990.3	1039.2	1413.1	1275.1	1408.6	1633.4	1755.8	2009.5
52.5°	801.1	812.3	741.0	674.3	928.0	997.0	983.6	1212.8	1261.8	1575.5
55°	563.0	598.6	565.2	558.6	527.4	774.4	745.5	932.4	963.6	1197.2
57.5°	57.9	66.8	115.7	416.1	344.9	438.4	531.9	683.2	714.3	883.5
60°	4.5	4.5	11.1	57.9	251.5	262.6	367.2	420.6	480.7	616.4
62.5°	0.0	2.2	4.5	8.9	40.1	140.2	184.7	220.3	289.3	398.3
65°	0.0	0.0	2.2	6.7	8.9	53.4	71.2	115.7	158.0	247.0
67.5°	0.0	0.0	2.2	4.5	6.7	13.4	24.5	42.3	84.6	140.2
70°	0.0	0.0	2.2	4.5	6.7	11.1	17.8	26.7	37.8	75.7
72.5°	0.0	0.0	2.2	2.2	4.5	11.1	13.4	17.8	26.7	37.8
75°	0.0	0.0	2.2	2.2	6.7	13.4	11.1	13.4	17.8	24.5
77.5°	0.0	0.0	2.2	4.5	6.7	13.4	11.1	13.4	13.4	15.6
80°	0.0	0.0	2.2	4.5	8.9	15.6	13.4	13.4	11.1	11.1
82.5°	0.0	0.0	2.2	6.7	8.9	20.0	20.0	17.8	8.9	6.7
85°	0.0	0.0	4.5	8.9	13.4	22.3	22.3	17.8	6.7	4.5
87.5°	0.0	0.0	4.5	6.7	11.1	15.6	22.3	17.8	6.7	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°
12025.8	0°	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8	12025.8
11988.0	2.5°	12048.0	12034.7	12079.2	12097.0	12121.5	12028.0	11970.2	11972.4	11865.6
11852.2	5°	11923.4	11925.7	11983.5	11979.1	12003.5	11952.4	11930.1	11892.3	11798.8
11680.9	7.5°	11765.4	11745.4	11801.0	11843.3	11781.0	11816.6	11765.4	11783.2	11727.6
11529.5	10°	11643.0	11596.3	11647.5	11676.4	11678.6	11643.0	11594.1	11547.3	11527.3
11293.7	12.5°	11371.5	11311.5	11398.2	11438.3	11431.6	11362.6	11307.0	11318.1	11253.6
10879.7	15°	10997.7	10999.9	11062.2	11100.0	11064.4	11048.9	11053.3	11026.6	10971.0
10307.8	17.5°	10425.8	10459.1	10623.8	10715.1	10735.1	10703.9	10688.4	10657.2	10601.6
9395.4	20°	9473.3	9673.6	9967.3	10250.0	10305.6	10296.7	10241.1	10227.7	10196.6
8491.9	22.5°	8636.6	8785.7	9126.2	9566.8	9793.8	9816.0	9749.3	9729.2	9695.9
7684.1	25°	7770.9	7931.1	8238.2	8716.7	9186.2	9281.9	9270.8	9210.7	9175.1
6967.6	27.5°	7041.0	7201.2	7479.4	7911.1	8414.1	8721.1	8750.1	8654.4	8652.2
6328.9	30°	6382.3	6602.6	6814.0	7165.6	7653.0	8113.6	8162.6	8095.8	8102.5
5743.6	32.5°	5866.0	6048.5	6228.8	6464.6	6869.7	7406.0	7597.3	7535.0	7510.6
5256.3	35°	5338.6	5463.2	5647.9	5863.8	6139.7	6671.6	7003.2	6956.4	6932.0
4597.6	37.5°	4737.8	4951.4	5084.9	5327.5	5543.3	5966.2	6433.5	6426.8	6375.6
4036.8	40°	4121.3	4346.1	4548.6	4793.4	4960.3	5296.3	5814.8	5812.6	5819.3
3456.0	42.5°	3562.8	3769.7	4014.5	4281.6	4441.8	4686.6	5242.9	5274.1	5311.9
2977.5	45°	3057.6	3244.6	3471.5	3796.4	3990.1	4130.3	4624.3	4766.7	4764.5
2550.3	47.5°	2603.7	2779.5	2970.8	3286.8	3533.9	3660.7	4070.2	4272.7	4259.3
2091.8	50°	2185.3	2341.1	2541.4	2770.6	3102.1	3213.4	3518.3	3785.3	3765.3
1666.8	52.5°	1758.0	1973.9	2143.0	2352.2	2701.6	2810.6	3046.5	3306.9	3291.3
1250.6	55°	1370.8	1580.0	1784.7	1965.0	2258.7	2421.2	2590.3	2857.4	2852.9
979.2	57.5°	1037.0	1266.2	1459.8	1631.2	1864.8	2065.1	2200.9	2443.4	2474.6
669.8	60°	767.7	943.5	1152.7	1344.1	1528.8	1735.8	1827.0	2065.1	2078.5
458.4	62.5°	523.0	716.6	921.3	1094.9	1232.8	1446.5	1528.8	1724.6	1749.1
293.7	65°	362.7	487.4	721.0	845.6	1014.8	1197.2	1279.6	1435.4	1484.3
169.1	67.5°	240.3	347.2	563.0	676.5	843.4	968.0	1072.6	1199.5	1252.9
106.8	70°	131.3	255.9	402.8	534.1	678.7	798.9	901.3	1003.6	1050.4
49.0	72.5°	89.0	171.4	280.4	422.8	547.4	665.4	756.6	832.3	834.5
28.9	75°	44.5	115.7	213.6	327.1	427.3	543.0	625.3	669.8	616.4
17.8	77.5°	26.7	84.6	173.6	262.6	347.2	438.4	485.1	509.6	422.8
13.4	80°	15.6	60.1	135.7	209.2	240.3	322.7	367.2	373.9	282.6
8.9	82.5°	11.1	44.5	106.8	153.5	146.9	227.0	275.9	267.0	180.3
6.7	85°	6.7	31.2	66.8	95.7	89.0	149.1	160.2	164.7	104.6
4.5	87.5°	4.5	17.8	35.6	51.2	42.3	64.5	64.5	77.9	51.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12025.8
11727.6
11776.6
11634.1
11438.3
11198.0
10915.3
10577.1
10125.3
9687.0
9137.3
8647.7
8069.1
7512.8
6898.6
6417.9
5819.3
5291.9
4768.9
4263.8
3783.1
3324.7
2864.0
2461.2
2098.5
1753.6
1473.2
1246.2
1032.6
814.5
576.4
407.2
264.8
166.9
95.7
44.5
0.0

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