

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: P638261

Luminaire Tested: **IFLD-M-SA4B-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638261
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12914 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

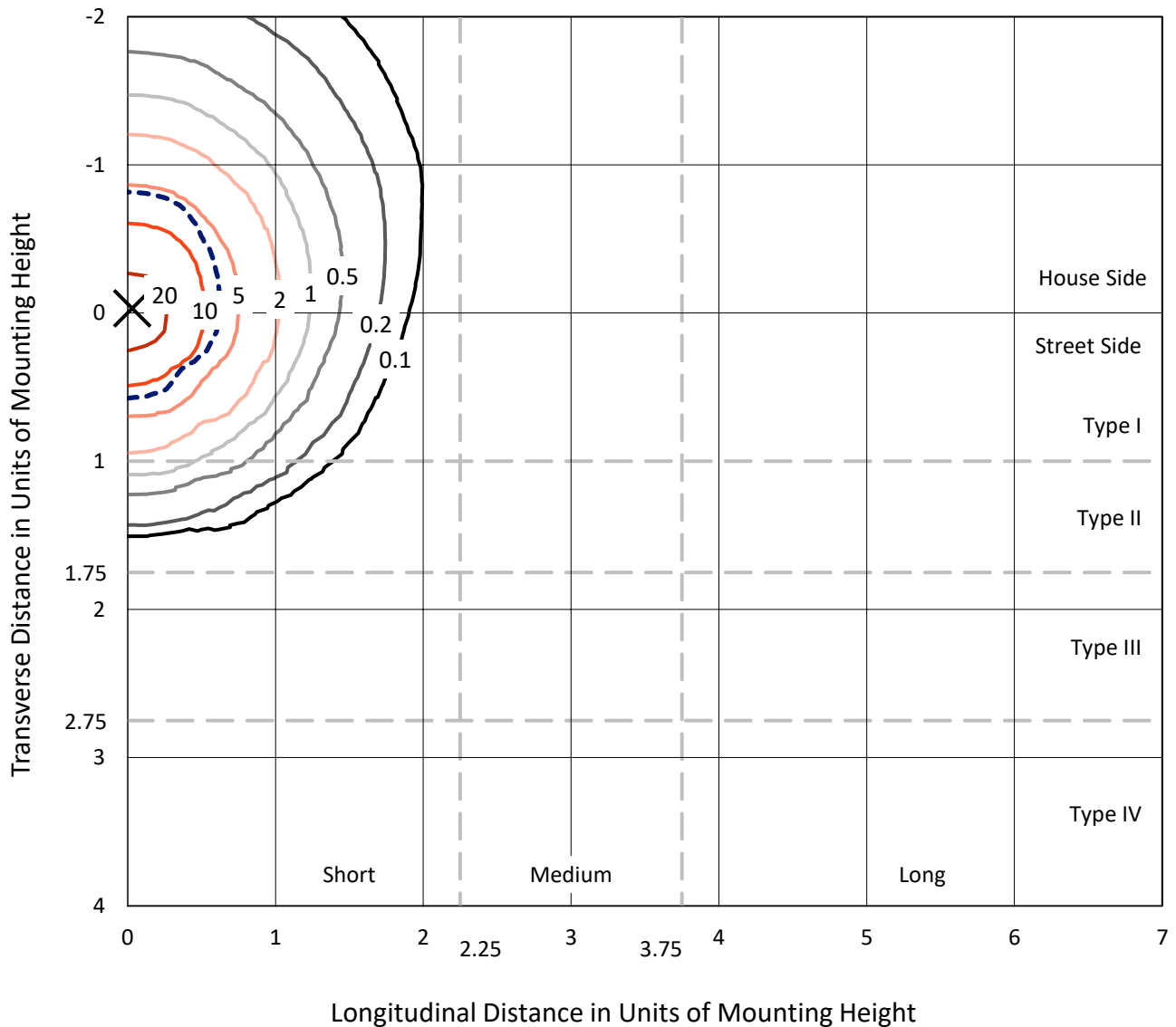
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

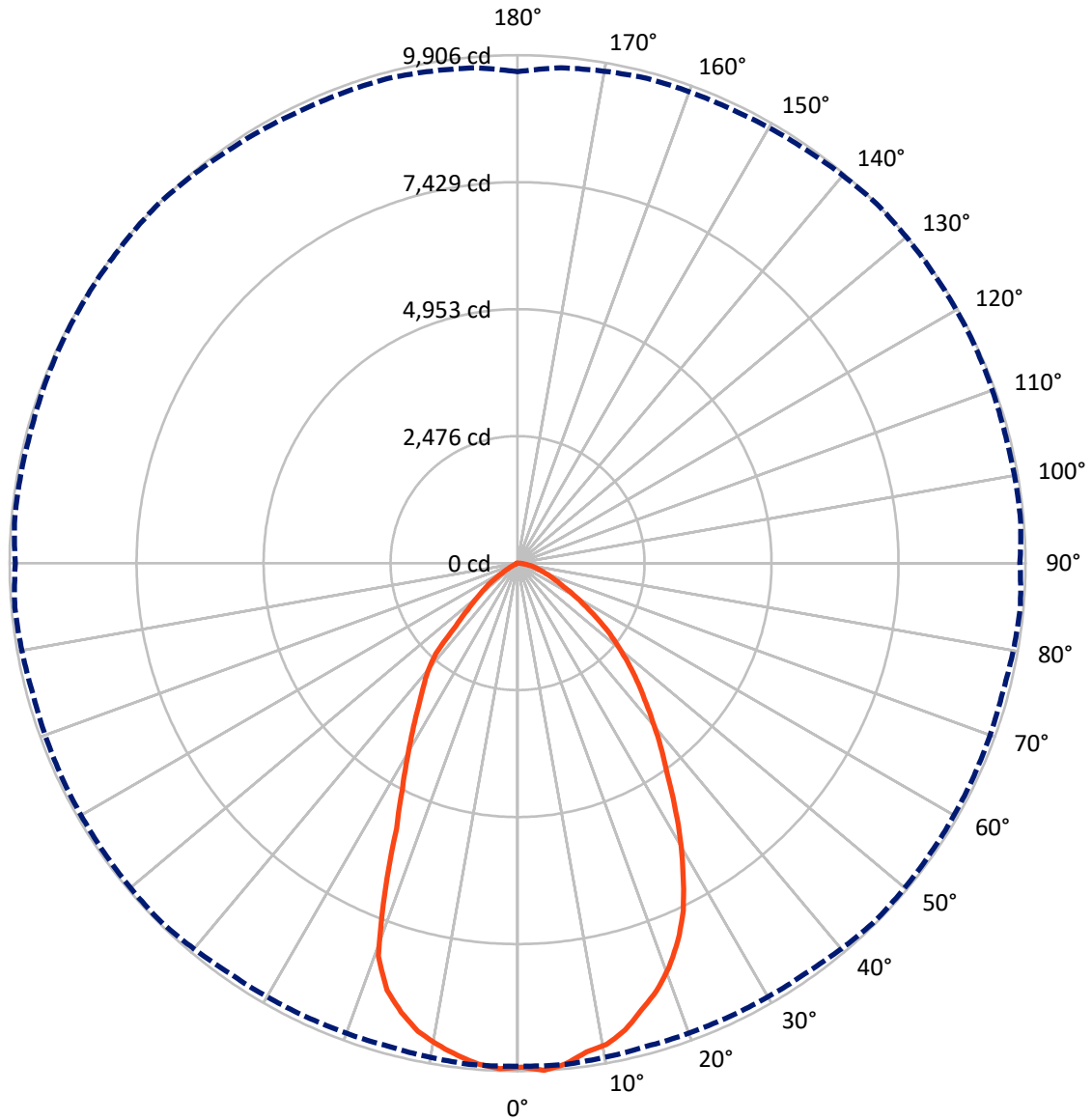
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.6 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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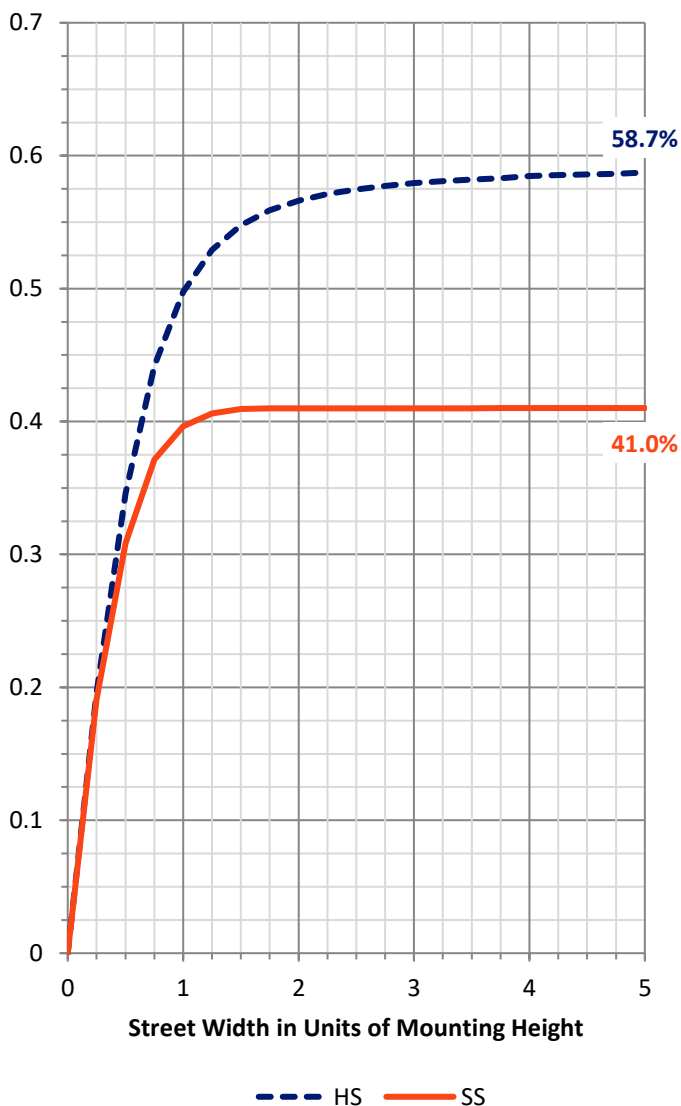
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7648.4	0.0	7648.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5265.7	0.0	5265.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	12914.0	0.0	12914.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.7	7.1
10°-20°	2471.5	19.1
20°-30°	3014.1	23.3
30°-40°	2751.9	21.3
40°-50°	1988.7	15.4
50°-60°	1085.9	8.4
60°-70°	449.0	3.5
70°-80°	181.8	1.4
80°-90°	49.5	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°	12914.0	100.0
0°-180°	12914.0	100.0



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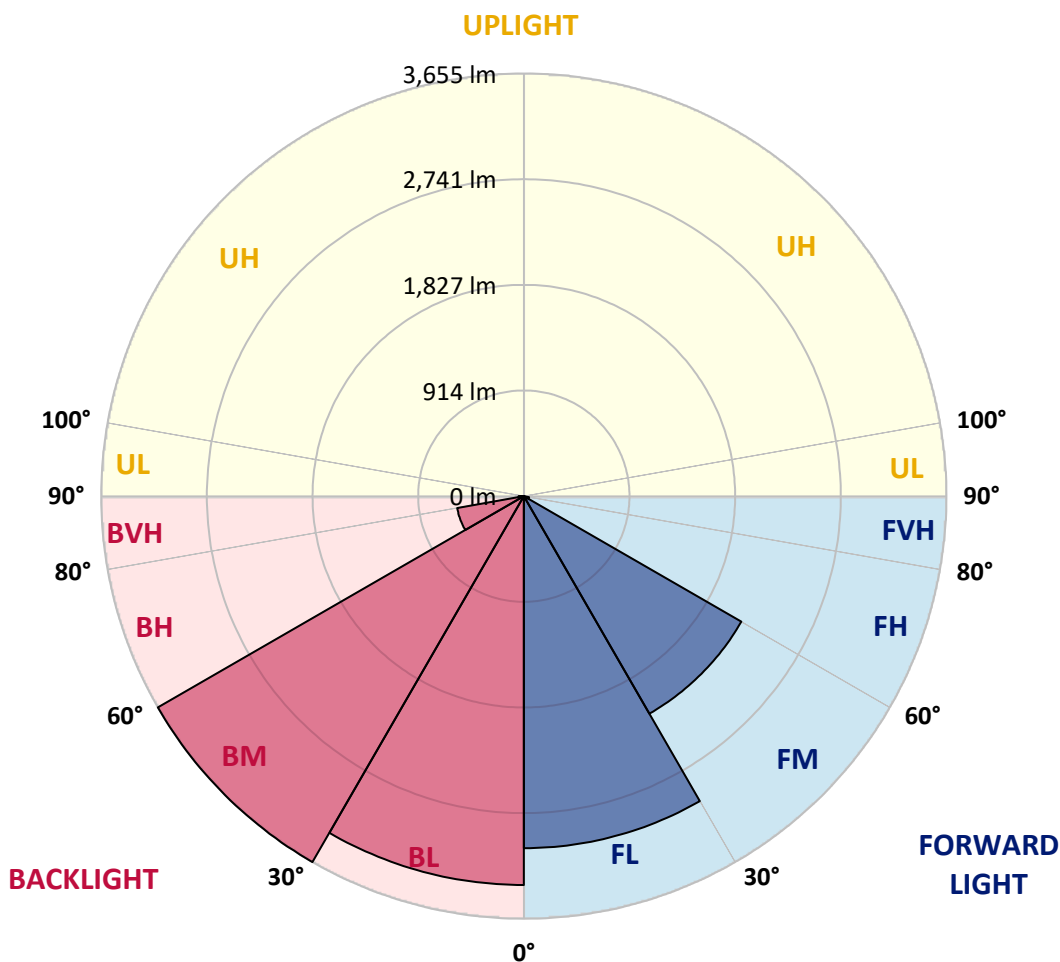
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3044.3	23.6			
FM (30°-60°)	2171.9	16.8			
FH (60°-80°)	45.5	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	3363.0	26.0	B4/5000		
BM (30°-60°)	3654.6	28.3	B3/5000		
BH (60°-80°)	585.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	45.5	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°	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5
2.5°	9809.4	9822.1	9753.0	9760.3	9773.0	9865.7	9842.1	9820.3	9789.4	9842.1
5°	9796.6	9803.9	9731.2	9705.7	9716.6	9800.3	9723.9	9723.9	9716.6	9707.5
7.5°	9698.4	9702.1	9645.7	9600.2	9629.3	9667.5	9611.1	9638.4	9598.4	9629.3
10°	9551.1	9527.5	9460.2	9447.5	9480.2	9516.6	9478.4	9503.8	9467.5	9491.1
12.5°	9334.7	9298.3	9243.8	9227.4	9283.8	9332.9	9302.0	9287.4	9240.2	9298.3
15°	8500.0	8472.7	8596.4	8812.8	9007.4	9049.2	9016.5	9031.0	8932.8	8949.2
17.5°	6996.0	6945.1	7077.9	7590.7	8321.8	8707.3	8678.2	8583.6	8438.2	8470.9
20°	6357.7	6343.2	6328.6	6450.5	6961.5	8130.8	8170.8	7930.8	7723.5	7678.0
22.5°	5997.6	5992.2	5977.6	6004.9	6139.5	6890.6	7348.8	7127.0	6988.8	6976.0
25°	5668.5	5659.4	5615.7	5650.3	5650.3	5693.9	6281.3	6415.9	6294.1	6279.5
27.5°	5333.9	5317.5	5310.2	5326.6	5242.9	4948.3	5097.5	5754.0	5690.3	5693.9
30°	4972.0	4966.5	4946.5	4981.1	4722.8	4357.3	4262.7	5153.8	5166.6	5162.9
32.5°	4433.7	4457.3	4548.2	4586.4	4160.9	3859.0	3700.8	4459.1	4719.2	4713.7
35°	3220.7	3220.7	3517.1	4068.1	3646.2	3418.9	3333.4	3780.8	4277.3	4295.5
37.5°	2647.8	2656.9	2715.1	2966.1	3146.1	3066.1	3040.6	3182.5	3709.9	3739.0
40°	2382.3	2382.3	2382.3	2278.7	2273.2	2762.4	2747.9	2702.4	3204.3	3268.0
42.5°	2140.5	2145.9	2149.5	1887.7	1742.2	2387.8	2355.0	2285.9	2751.5	2826.1
45°	1891.3	1900.4	1911.3	1578.5	1514.9	1718.5	1993.2	1916.8	2304.1	2400.5
47.5°	1154.8	1169.3	1416.7	1338.5	1345.7	1325.7	1625.8	1613.1	1889.5	2025.9
50°	780.2	785.6	809.3	849.3	1154.8	1042.0	1151.2	1334.8	1434.9	1642.2
52.5°	654.7	663.8	605.6	551.0	758.3	814.7	803.8	991.1	1031.1	1287.5
55°	460.1	489.2	461.9	456.5	431.0	632.9	609.2	762.0	787.4	978.4
57.5°	47.3	54.6	94.6	340.1	281.9	358.3	434.6	558.3	583.8	722.0
60°	3.6	3.6	9.1	47.3	205.5	214.6	300.1	343.7	392.8	503.7
62.5°	0.0	1.8	3.6	7.3	32.7	114.6	150.9	180.0	236.4	325.5
65°	0.0	0.0	1.8	5.5	7.3	43.6	58.2	94.6	129.1	201.9
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	20.0	34.6	69.1	114.6
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.5	21.8	30.9	61.8
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	10.9	14.5	21.8	30.9
75°	0.0	0.0	1.8	1.8	5.5	10.9	9.1	10.9	14.5	20.0
77.5°	0.0	0.0	1.8	3.6	5.5	10.9	9.1	10.9	10.9	12.7
80°	0.0	0.0	1.8	3.6	7.3	12.7	10.9	10.9	9.1	9.1
82.5°	0.0	0.0	1.8	5.5	7.3	16.4	16.4	14.5	7.3	5.5
85°	0.0	0.0	3.6	7.3	10.9	18.2	18.2	14.5	5.5	3.6
87.5°	0.0	0.0	3.6	5.5	9.1	12.7	18.2	14.5	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°
9827.5	0°	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5	9827.5
9796.6	2.5°	9845.7	9834.8	9871.2	9885.7	9905.7	9829.4	9782.1	9783.9	9696.6
9685.7	5°	9743.9	9745.7	9793.0	9789.4	9809.4	9767.5	9749.4	9718.4	9642.1
9545.7	7.5°	9614.8	9598.4	9643.9	9678.4	9627.5	9656.6	9614.8	9629.3	9583.9
9422.0	10°	9514.8	9476.6	9518.4	9542.0	9543.9	9514.8	9474.7	9436.6	9420.2
9229.2	12.5°	9292.9	9243.8	9314.7	9347.4	9342.0	9285.6	9240.2	9249.2	9196.5
8891.0	15°	8987.4	8989.2	9040.1	9071.0	9041.9	9029.2	9032.8	9011.0	8965.5
8423.6	17.5°	8520.0	8547.3	8681.9	8756.4	8772.8	8747.3	8734.6	8709.1	8663.7
7678.0	20°	7741.7	7905.3	8145.4	8376.3	8421.8	8414.5	8369.1	8358.1	8332.7
6939.7	22.5°	7057.9	7179.7	7458.0	7818.0	8003.5	8021.7	7967.2	7950.8	7923.5
6279.5	25°	6350.4	6481.4	6732.3	7123.3	7507.1	7585.3	7576.2	7527.1	7498.0
5693.9	27.5°	5754.0	5884.9	6112.2	6465.0	6876.0	7127.0	7150.6	7072.4	7070.6
5172.0	30°	5215.7	5395.7	5568.5	5855.8	6254.1	6630.5	6670.5	6616.0	6621.4
4693.7	32.5°	4793.7	4942.9	5090.2	5282.9	5613.9	6052.2	6208.6	6157.7	6137.7
4295.5	35°	4362.7	4464.6	4615.5	4791.9	5017.4	5452.1	5723.0	5684.8	5664.8
3757.2	37.5°	3871.7	4046.3	4155.4	4353.7	4530.1	4875.6	5257.5	5252.0	5210.2
3298.9	40°	3368.0	3551.7	3717.2	3917.2	4053.6	4328.2	4751.9	4750.1	4755.6
2824.2	42.5°	2911.5	3080.7	3280.7	3498.9	3629.9	3829.9	4284.5	4310.0	4340.9
2433.2	45°	2498.7	2651.5	2837.0	3102.5	3260.7	3375.3	3779.0	3895.4	3893.6
2084.1	47.5°	2127.7	2271.4	2427.8	2686.0	2887.9	2991.5	3326.2	3491.7	3480.7
1709.5	50°	1785.8	1913.1	2076.8	2264.1	2535.1	2626.0	2875.2	3093.4	3077.0
1362.1	52.5°	1436.7	1613.1	1751.3	1922.2	2207.7	2296.9	2489.6	2702.4	2689.7
1022.0	55°	1120.2	1291.2	1458.5	1605.8	1845.8	1978.6	2116.8	2335.0	2331.4
800.2	57.5°	847.5	1034.8	1193.0	1333.0	1524.0	1687.6	1798.6	1996.8	2022.2
547.4	60°	627.4	771.1	942.0	1098.4	1249.4	1418.5	1493.0	1687.6	1698.5
374.6	62.5°	427.4	585.6	752.9	894.7	1007.5	1182.1	1249.4	1409.4	1429.4
240.1	65°	296.4	398.3	589.2	691.1	829.3	978.4	1045.7	1173.0	1213.0
138.2	67.5°	196.4	283.7	460.1	552.8	689.2	791.1	876.6	980.2	1023.9
87.3	70°	107.3	209.1	329.2	436.5	554.7	652.9	736.5	820.2	858.4
40.0	72.5°	72.7	140.0	229.1	345.5	447.4	543.8	618.3	680.1	682.0
23.6	75°	36.4	94.6	174.6	267.3	349.2	443.7	511.0	547.4	503.7
14.5	77.5°	21.8	69.1	141.8	214.6	283.7	358.3	396.4	416.5	345.5
10.9	80°	12.7	49.1	110.9	170.9	196.4	263.7	300.1	305.5	231.0
7.3	82.5°	9.1	36.4	87.3	125.5	120.0	185.5	225.5	218.2	147.3
5.5	85°	5.5	25.5	54.6	78.2	72.7	121.8	130.9	134.6	85.5
3.6	87.5°	3.6	14.5	29.1	41.8	34.6	52.7	52.7	63.6	41.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9827.5
9583.9
9623.9
9507.5
9347.4
9151.0
8920.1
8643.7
8274.5
7916.2
7467.0
7067.0
6594.1
6139.5
5637.6
5244.8
4755.6
4324.6
3897.2
3484.4
3091.6
2716.9
2340.5
2011.3
1714.9
1433.0
1203.9
1018.4
843.8
665.6
471.0
332.8
216.4
136.4
78.2
36.4
0.0

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