

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: P638090

Luminaire Tested: **IFLD-M-SA4E-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638090
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23289.3 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 314.8
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

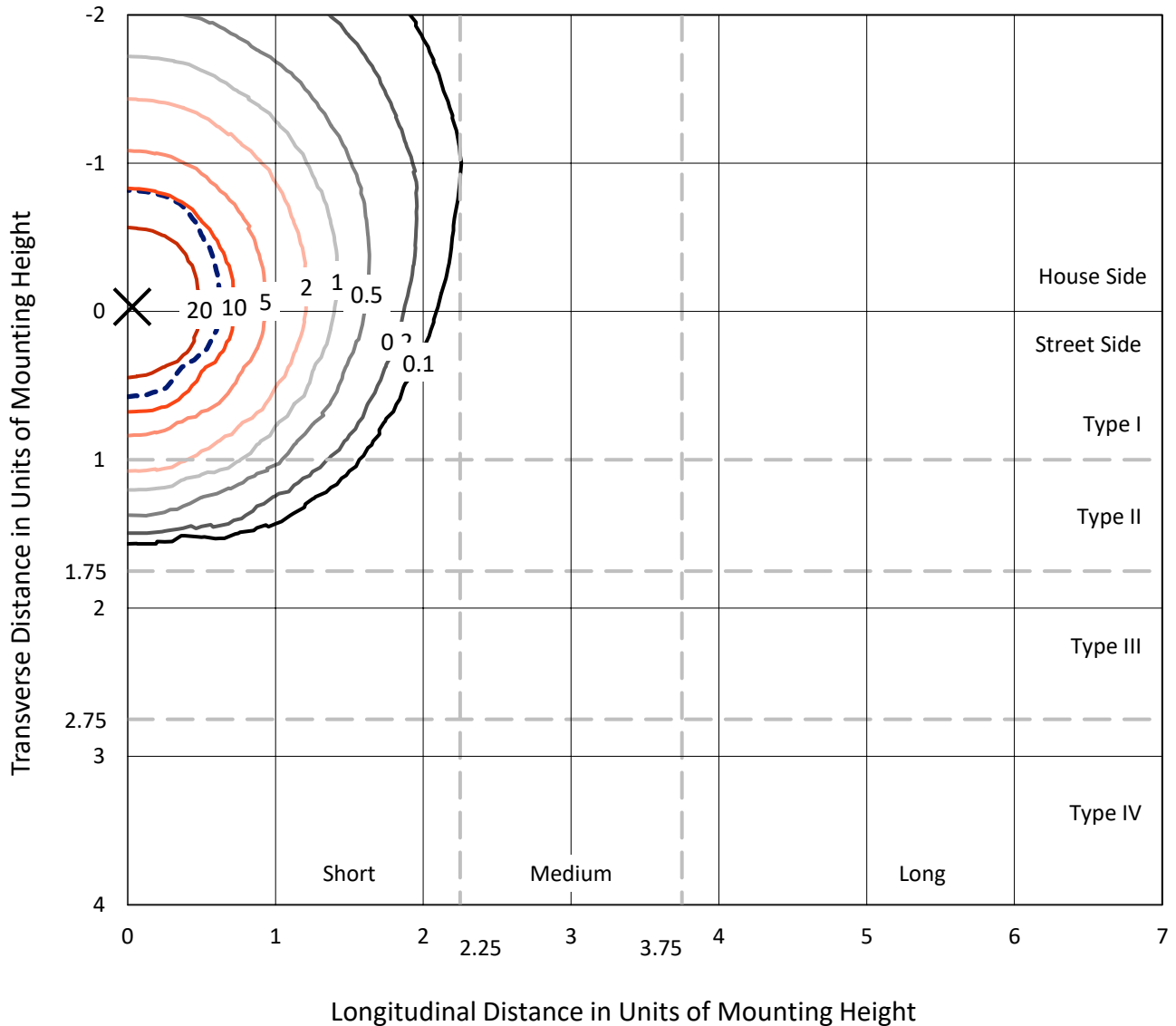




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Iso-Footcandle Lines of Horizontal Illumination

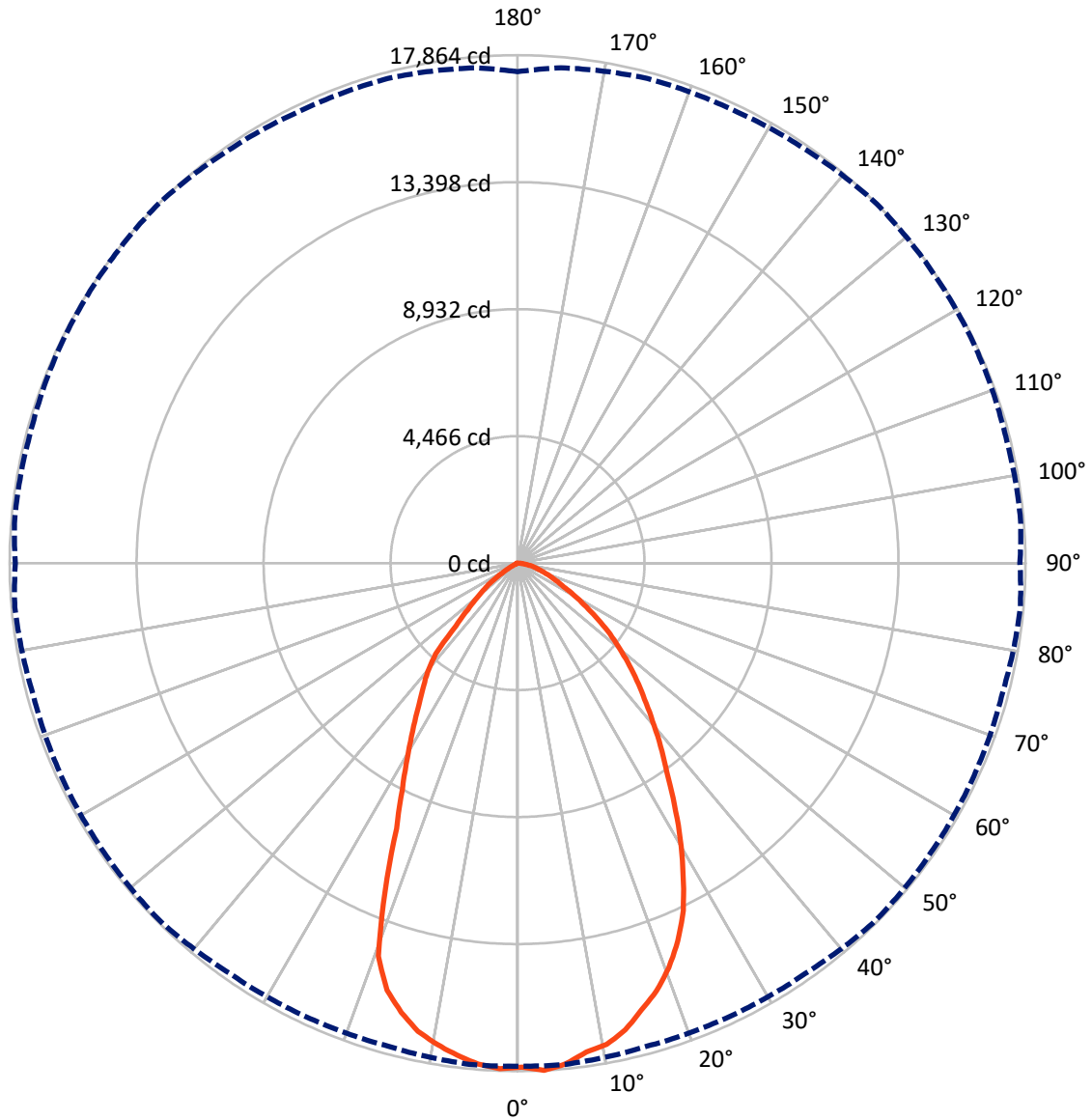
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 44.3 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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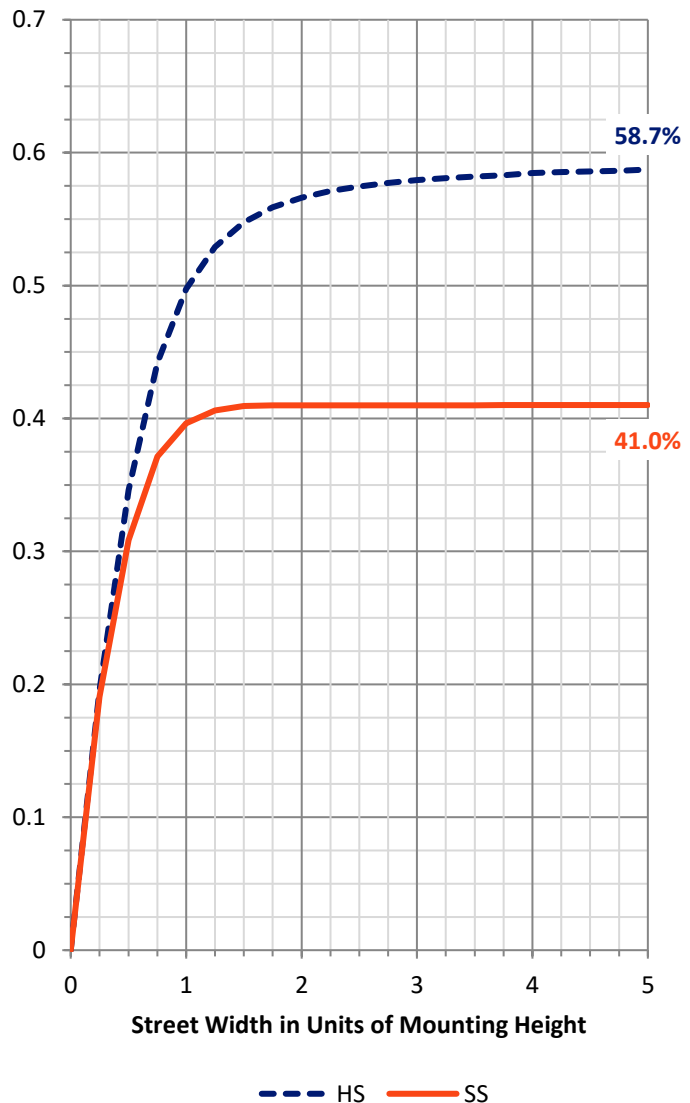
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13793.1	0.0	13793.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9496.2	0.0	9496.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	23289.3	0.0	23289.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1662.1	7.1
10°-20°	4457.1	19.1
20°-30°	5435.7	23.3
30°-40°	4962.8	21.3
40°-50°	3586.5	15.4
50°-60°	1958.3	8.4
60°-70°	809.7	3.5
70°-80°	327.9	1.4
80°-90°	89.2	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°	23289.3	100.0
0°-180°	23289.3	100.0



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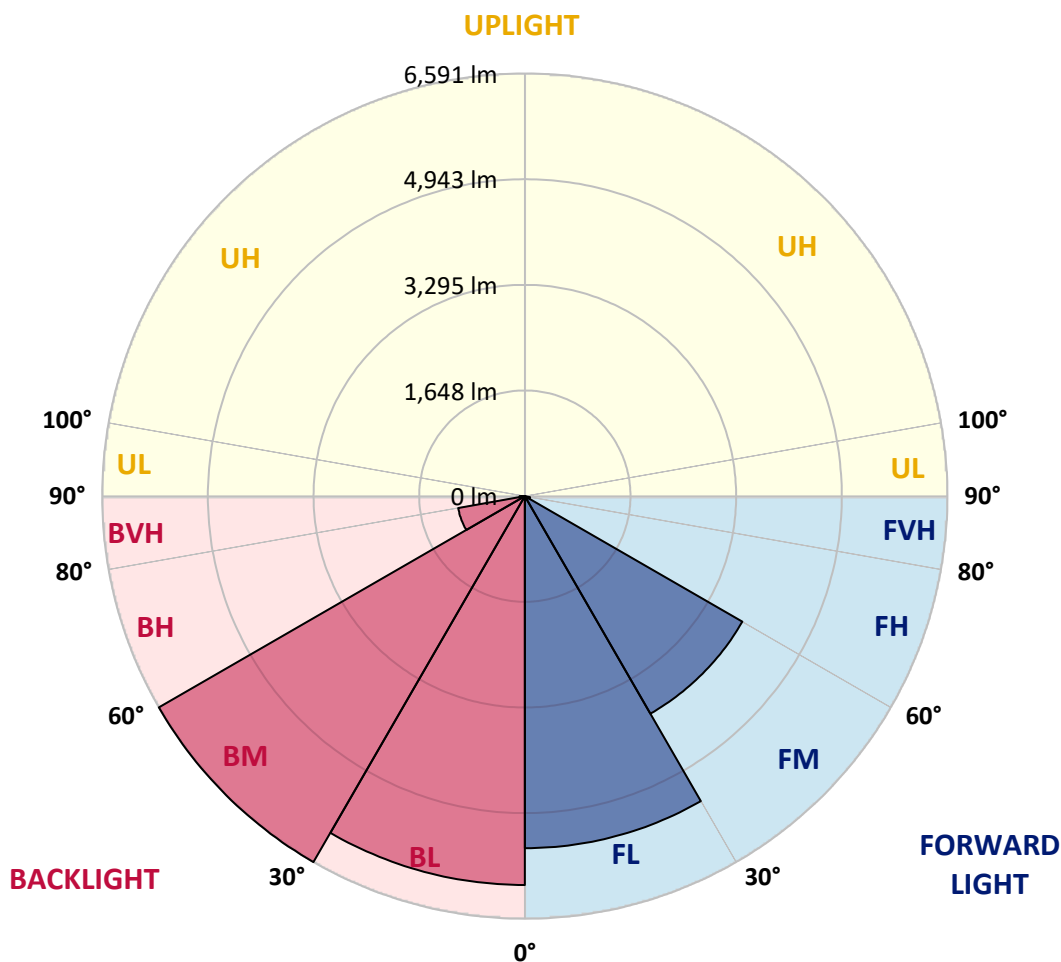
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5490.1	23.6			
FM (30°-60°)	3916.8	16.8			
FH (60°-80°)	82.1	0.4			G0/660
FVH (80°-90°)	7.1	0.0			G0/10
BL (0°-30°)	6064.9	26.0	B5		
BM (30°-60°)	6590.7	28.3	B4/8500		
BH (60°-80°)	1055.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	82.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1
2.5°	17690.3	17713.2	17588.6	17601.7	17624.7	17791.9	17749.3	17710.0	17654.2	17749.3
5°	17667.3	17680.4	17549.3	17503.3	17523.0	17673.9	17536.1	17536.1	17523.0	17506.6
7.5°	17490.2	17496.8	17395.1	17313.1	17365.6	17434.5	17332.8	17382.0	17309.8	17365.6
10°	17224.6	17181.9	17060.6	17037.6	17096.7	17162.3	17093.4	17139.3	17073.7	17116.3
12.5°	16834.3	16768.7	16670.3	16640.8	16742.5	16831.0	16775.3	16749.0	16663.8	16768.7
15°	15328.9	15279.8	15502.8	15893.0	16244.0	16319.4	16260.4	16286.6	16109.5	16139.0
17.5°	12616.7	12524.9	12764.3	13689.1	15007.5	15702.8	15650.4	15479.8	15217.4	15276.5
20°	11465.6	11439.3	11413.1	11632.8	12554.4	14663.2	14735.3	14302.4	13928.6	13846.6
22.5°	10816.2	10806.4	10780.1	10829.3	11072.0	12426.5	13252.9	12852.8	12603.6	12580.6
25°	10222.6	10206.2	10127.5	10189.8	10189.8	10268.5	11327.8	11570.5	11350.8	11324.5
27.5°	9619.1	9589.6	9576.5	9606.0	9455.1	8923.8	9192.8	10376.7	10261.9	10268.5
30°	8966.5	8956.6	8920.6	8982.9	8517.2	7858.0	7687.4	9294.4	9317.4	9310.8
32.5°	7995.7	8038.4	8202.3	8271.2	7503.8	6959.4	6674.0	8041.6	8510.6	8500.8
35°	5808.2	5808.2	6342.8	7336.5	6575.6	6165.7	6011.5	6818.3	7713.7	7746.5
37.5°	4775.1	4791.5	4896.5	5349.1	5673.7	5529.4	5483.5	5739.3	6690.4	6742.9
40°	4296.3	4296.3	4296.3	4109.4	4099.5	4981.7	4955.5	4873.5	5778.7	5893.5
42.5°	3860.1	3870.0	3876.5	3404.2	3141.9	4306.1	4247.1	4122.5	4962.1	5096.5
45°	3410.8	3427.2	3446.9	2846.7	2731.9	3099.2	3594.5	3456.7	4155.3	4329.1
47.5°	2082.6	2108.8	2554.8	2413.8	2426.9	2390.8	2932.0	2909.0	3407.5	3653.5
50°	1407.0	1416.8	1459.4	1531.6	2082.6	1879.2	2076.0	2407.2	2587.6	2961.5
52.5°	1180.7	1197.1	1092.1	993.7	1367.6	1469.3	1449.6	1787.4	1859.5	2322.0
55°	829.7	882.2	833.0	823.2	777.3	1141.3	1098.7	1374.2	1420.1	1764.4
57.5°	85.3	98.4	170.5	613.3	508.3	646.1	783.8	1006.8	1052.8	1302.0
60°	6.6	6.6	16.4	85.3	370.6	387.0	541.1	619.8	708.4	908.5
62.5°	0.0	3.3	6.6	13.1	59.0	206.6	272.2	324.7	426.4	587.1
65°	0.0	0.0	3.3	9.8	13.1	78.7	104.9	170.5	232.9	364.0
67.5°	0.0	0.0	3.3	6.6	9.8	19.7	36.1	62.3	124.6	206.6
70°	0.0	0.0	3.3	6.6	9.8	16.4	26.2	39.4	55.8	111.5
72.5°	0.0	0.0	3.3	3.3	6.6	16.4	19.7	26.2	39.4	55.8
75°	0.0	0.0	3.3	3.3	9.8	19.7	16.4	19.7	26.2	36.1
77.5°	0.0	0.0	3.3	6.6	9.8	19.7	16.4	19.7	19.7	23.0
80°	0.0	0.0	3.3	6.6	13.1	23.0	19.7	19.7	16.4	16.4
82.5°	0.0	0.0	3.3	9.8	13.1	29.5	29.5	26.2	13.1	9.8
85°	0.0	0.0	6.6	13.1	19.7	32.8	32.8	26.2	9.8	6.6
87.5°	0.0	0.0	6.6	9.8	16.4	23.0	32.8	26.2	9.8	3.3
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°
17723.1	0°	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1	17723.1
17667.3	2.5°	17755.9	17736.2	17801.8	17828.0	17864.1	17726.4	17641.1	17644.4	17486.9
17467.3	5°	17572.2	17575.5	17660.8	17654.2	17690.3	17614.8	17582.0	17526.3	17388.6
17214.7	7.5°	17339.4	17309.8	17391.8	17454.1	17362.3	17414.8	17339.4	17365.6	17283.6
16991.7	10°	17159.0	17090.1	17165.5	17208.2	17211.5	17159.0	17086.8	17018.0	16988.4
16644.1	12.5°	16758.9	16670.3	16798.2	16857.3	16847.4	16745.7	16663.8	16680.2	16585.0
16034.1	15°	16207.9	16211.2	16303.0	16358.8	16306.3	16283.3	16289.9	16250.5	16168.5
15191.2	17.5°	15365.0	15414.2	15656.9	15791.4	15820.9	15775.0	15752.0	15706.1	15624.1
13846.6	20°	13961.3	14256.5	14689.4	15105.9	15187.9	15174.8	15092.8	15073.1	15027.2
12515.0	22.5°	12728.2	12947.9	13449.7	14099.1	14433.6	14466.4	14368.0	14338.5	14289.3
11324.5	25°	11452.4	11688.6	12141.2	12846.3	13538.3	13679.3	13662.9	13574.4	13521.9
10268.5	27.5°	10376.7	10612.9	11022.8	11659.1	12400.2	12852.8	12895.5	12754.4	12751.2
9327.2	30°	9406.0	9730.6	10042.2	10560.4	11278.6	11957.5	12029.7	11931.3	11941.1
8464.7	32.5°	8645.1	8914.0	9179.7	9527.3	10124.2	10914.6	11196.6	11104.8	11068.7
7746.5	35°	7867.8	8051.5	8323.7	8641.8	9048.5	9832.3	10321.0	10252.1	10216.0
6775.7	37.5°	6982.3	7297.2	7493.9	7851.4	8169.5	8792.7	9481.4	9471.5	9396.1
5949.2	40°	6073.9	6405.1	6703.5	7064.3	7310.3	7805.5	8569.7	8566.4	8576.2
5093.3	42.5°	5250.7	5555.7	5916.4	6310.0	6546.1	6906.9	7726.8	7772.7	7828.5
4388.1	45°	4506.2	4781.7	5116.2	5595.0	5880.4	6087.0	6815.1	7024.9	7021.7
3758.4	47.5°	3837.2	4096.2	4378.3	4844.0	5208.0	5395.0	5998.4	6296.9	6277.2
3082.8	50°	3220.6	3450.2	3745.3	4083.1	4571.8	4735.8	5185.1	5578.6	5549.1
2456.4	52.5°	2590.9	2909.0	3158.3	3466.6	3981.5	4142.2	4489.8	4873.5	4850.6
1843.1	55°	2020.2	2328.5	2630.3	2895.9	3328.8	3568.2	3817.5	4211.0	4204.5
1443.0	57.5°	1528.3	1866.1	2151.4	2404.0	2748.3	3043.5	3243.5	3601.0	3646.9
987.2	60°	1131.5	1390.6	1698.8	1980.9	2253.1	2558.1	2692.6	3043.5	3063.2
675.6	62.5°	770.7	1056.0	1357.8	1613.6	1816.9	2131.8	2253.1	2541.7	2577.8
432.9	65°	534.6	718.2	1062.6	1246.3	1495.5	1764.4	1885.8	2115.4	2187.5
249.3	67.5°	354.2	511.6	829.7	997.0	1243.0	1426.6	1580.8	1767.7	1846.4
157.4	70°	193.5	377.2	593.6	787.1	1000.3	1177.4	1328.2	1479.1	1548.0
72.2	72.5°	131.2	252.5	413.2	623.1	806.8	980.6	1115.1	1226.6	1229.9
42.6	75°	65.6	170.5	314.8	482.1	629.7	800.2	921.6	987.2	908.5
26.2	77.5°	39.4	124.6	255.8	387.0	511.6	646.1	715.0	751.0	623.1
19.7	80°	23.0	88.5	200.1	308.3	354.2	475.5	541.1	551.0	416.5
13.1	82.5°	16.4	65.6	157.4	226.3	216.5	334.5	406.7	393.6	265.6
9.8	85°	9.8	45.9	98.4	141.0	131.2	219.7	236.1	242.7	154.1
6.6	87.5°	6.6	26.2	52.5	75.4	62.3	95.1	95.1	114.8	75.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17723.1
17283.6
17355.8
17145.9
16857.3
16503.1
16086.5
15588.0
14922.3
14276.2
13466.1
12744.6
11891.9
11072.0
10166.8
9458.4
8576.2
7798.9
7028.2
6283.8
5575.4
4899.8
4220.9
3627.3
3092.7
2584.3
2171.1
1836.6
1521.7
1200.3
849.4
600.2
390.3
246.0
141.0
65.6
0.0

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