

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: P638107

Luminaire Tested: **IFLD-S-SA3C-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638107
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14836.3 lumens
Efficiency: N/A
Efficacy: 92.3 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

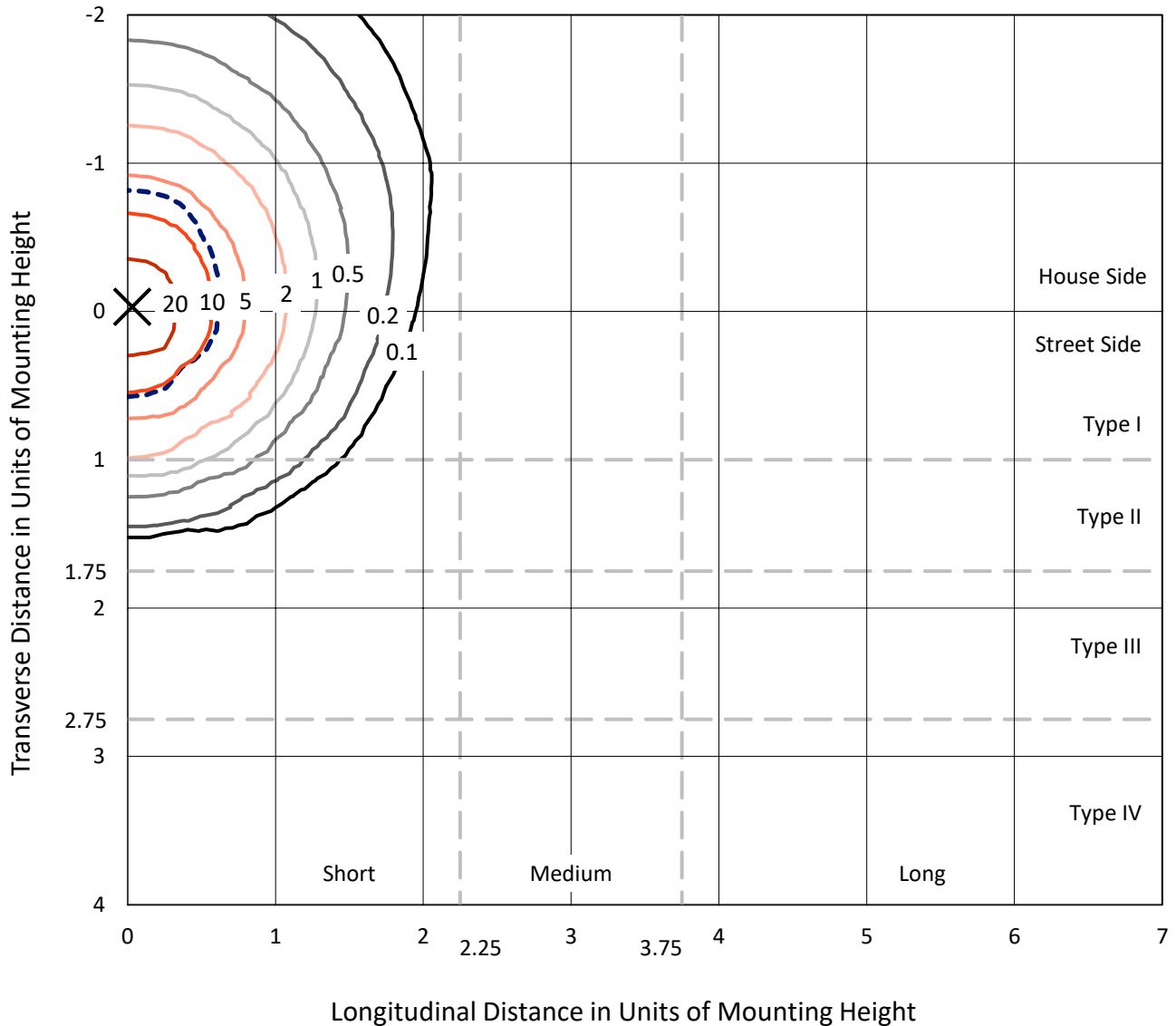
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

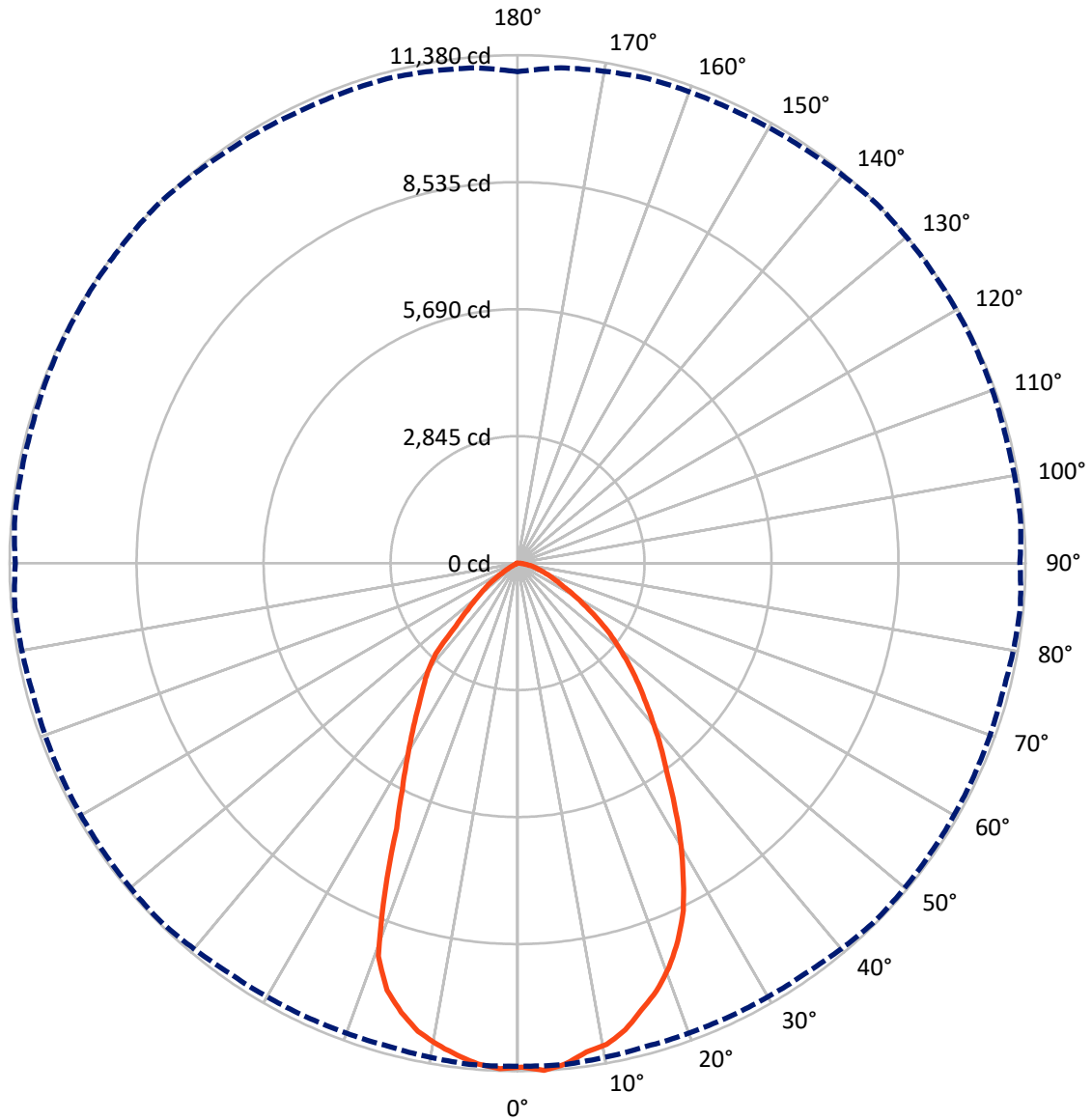
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.2 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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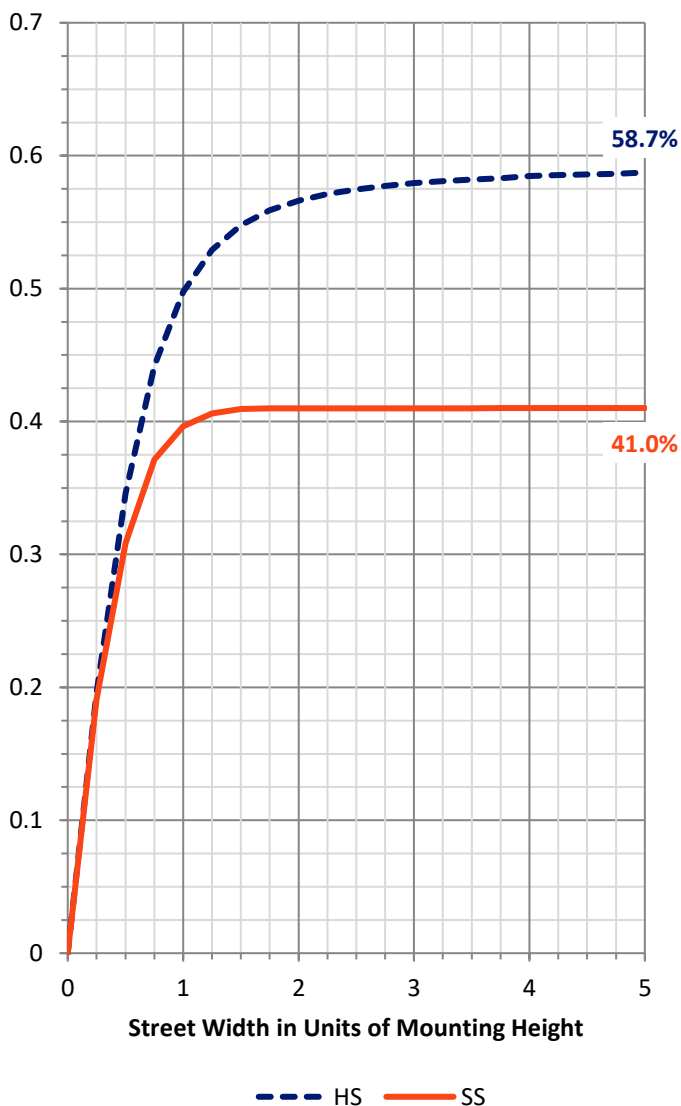
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8786.8	0.0	8786.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6049.5	0.0	6049.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	14836.3	0.0	14836.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1058.9	7.1
10°-20°	2839.4	19.1
20°-30°	3462.8	23.3
30°-40°	3161.5	21.3
40°-50°	2284.7	15.4
50°-60°	1247.5	8.4
60°-70°	515.8	3.5
70°-80°	208.9	1.4
80°-90°	56.8	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°	14836.3	100.0
0°-180°	14836.3	100.0



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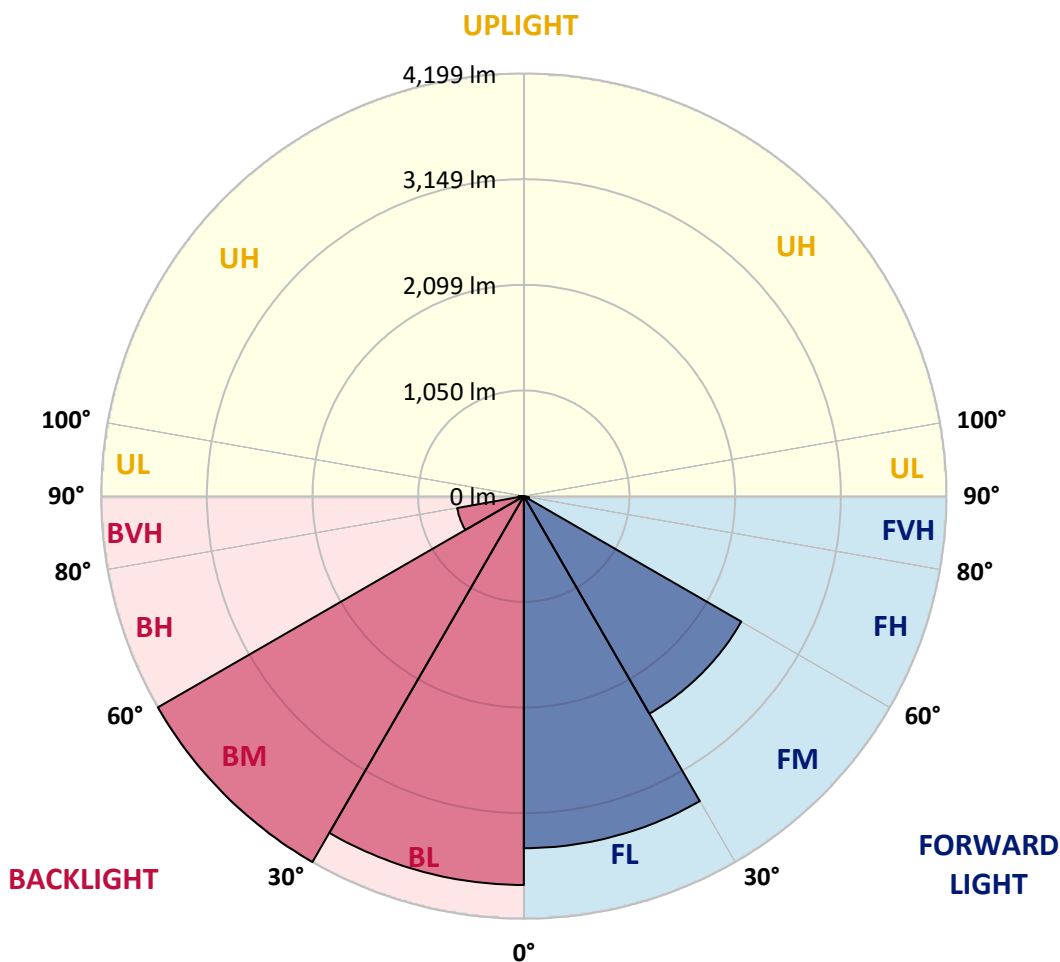
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3497.5	23.6			
FM (30°-60°)	2495.2	16.8			
FH (60°-80°)	52.3	0.4			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	3863.6	26.0	B4/5000		
BM (30°-60°)	4198.5	28.3	B3/5000		
BH (60°-80°)	672.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	52.3	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°	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4
2.5°	11269.5	11284.1	11204.7	11213.0	11227.7	11334.2	11307.1	11282.0	11246.5	11307.1
5°	11254.8	11263.2	11179.6	11150.4	11162.9	11259.0	11171.3	11171.3	11162.9	11152.5
7.5°	11142.0	11146.2	11081.4	11029.2	11062.6	11106.5	11041.7	11073.1	11027.1	11062.6
10°	10972.8	10945.6	10868.3	10853.7	10891.3	10933.1	10889.2	10918.5	10876.7	10903.8
12.5°	10724.2	10682.4	10619.7	10600.9	10665.7	10722.1	10686.6	10669.8	10615.5	10682.4
15°	9765.2	9733.9	9875.9	10124.5	10348.1	10396.1	10358.5	10375.3	10262.4	10281.2
17.5°	8037.4	7978.9	8131.4	8720.6	9560.4	10003.4	9969.9	9861.3	9694.2	9731.8
20°	7304.0	7287.3	7270.6	7410.6	7997.7	9341.1	9387.0	9111.3	8873.1	8820.8
22.5°	6890.4	6884.1	6867.4	6898.7	7053.3	7916.2	8442.7	8187.8	8029.0	8014.4
25°	6512.2	6501.8	6451.6	6491.3	6491.3	6541.5	7216.3	7370.9	7230.9	7214.2
27.5°	6127.8	6109.0	6100.6	6119.4	6023.3	5684.9	5856.2	6610.4	6537.3	6541.5
30°	5712.0	5705.8	5682.8	5722.5	5425.8	5005.9	4897.2	5921.0	5935.6	5931.4
32.5°	5093.6	5120.8	5225.2	5269.1	4780.2	4433.4	4251.6	5122.9	5421.6	5415.4
35°	3700.1	3700.1	4040.6	4673.7	4189.0	3927.8	3829.6	4343.6	4913.9	4934.8
37.5°	3042.0	3052.4	3119.3	3407.6	3614.4	3522.5	3493.2	3656.2	4262.1	4295.5
40°	2736.9	2736.9	2736.9	2617.8	2611.6	3173.6	3156.9	3104.6	3681.3	3754.4
42.5°	2459.1	2465.3	2469.5	2168.7	2001.5	2743.2	2705.6	2626.2	3161.0	3246.7
45°	2172.8	2183.3	2195.8	1813.5	1740.4	1974.3	2289.8	2202.1	2647.1	2757.8
47.5°	1326.7	1343.4	1627.5	1537.7	1546.1	1523.1	1867.8	1853.2	2170.7	2327.4
50°	896.3	902.6	929.7	975.7	1326.7	1197.1	1322.5	1533.5	1648.4	1886.6
52.5°	752.1	762.6	695.7	633.0	871.2	936.0	923.5	1138.6	1184.6	1479.2
55°	528.6	562.0	530.7	524.4	495.2	727.1	699.9	875.4	904.6	1124.0
57.5°	54.3	62.7	108.6	390.7	323.8	411.6	499.3	641.4	670.7	829.4
60°	4.2	4.2	10.4	54.3	236.1	246.5	344.7	394.9	451.3	578.7
62.5°	0.0	2.1	4.2	8.4	37.6	131.6	173.4	206.8	271.6	374.0
65°	0.0	0.0	2.1	6.3	8.4	50.1	66.9	108.6	148.3	231.9
67.5°	0.0	0.0	2.1	4.2	6.3	12.5	23.0	39.7	79.4	131.6
70°	0.0	0.0	2.1	4.2	6.3	10.4	16.7	25.1	35.5	71.0
72.5°	0.0	0.0	2.1	2.1	4.2	10.4	12.5	16.7	25.1	35.5
75°	0.0	0.0	2.1	2.1	6.3	12.5	10.4	12.5	16.7	23.0
77.5°	0.0	0.0	2.1	4.2	6.3	12.5	10.4	12.5	12.5	14.6
80°	0.0	0.0	2.1	4.2	8.4	14.6	12.5	12.5	10.4	10.4
82.5°	0.0	0.0	2.1	6.3	8.4	18.8	18.8	16.7	8.4	6.3
85°	0.0	0.0	4.2	8.4	12.5	20.9	20.9	16.7	6.3	4.2
87.5°	0.0	0.0	4.2	6.3	10.4	14.6	20.9	16.7	6.3	2.1
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°
11290.4	0°	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4	11290.4
11254.8	2.5°	11311.2	11298.7	11340.5	11357.2	11380.2	11292.4	11238.1	11240.2	11139.9
11127.4	5°	11194.2	11196.3	11250.7	11246.5	11269.5	11221.4	11200.5	11165.0	11077.2
10966.5	7.5°	11045.9	11027.1	11079.3	11119.0	11060.5	11094.0	11045.9	11062.6	11010.4
10824.4	10°	10931.0	10887.1	10935.2	10962.3	10964.4	10931.0	10885.0	10841.2	10822.4
10603.0	12.5°	10676.1	10619.7	10701.2	10738.8	10732.5	10667.8	10615.5	10626.0	10565.4
10214.4	15°	10325.1	10327.2	10385.7	10421.2	10387.8	10373.2	10377.3	10352.3	10300.0
9677.4	17.5°	9788.2	9819.5	9974.1	10059.8	10078.6	10049.3	10034.7	10005.5	9953.2
8820.8	20°	8894.0	9082.0	9357.8	9623.1	9675.4	9667.0	9614.8	9602.2	9573.0
7972.6	22.5°	8108.4	8248.4	8568.0	8981.7	9194.8	9215.7	9153.0	9134.2	9102.9
7214.2	25°	7295.7	7446.1	7734.4	8183.6	8624.5	8714.3	8703.8	8647.4	8614.0
6541.5	27.5°	6610.4	6760.8	7022.0	7427.3	7899.5	8187.8	8215.0	8125.1	8123.0
5941.9	30°	5992.0	6198.8	6397.3	6727.4	7185.0	7617.4	7663.4	7600.7	7607.0
5392.4	32.5°	5507.3	5678.6	5847.8	6069.3	6449.5	6953.1	7132.7	7074.2	7051.2
4934.8	35°	5012.1	5129.1	5302.5	5505.2	5764.3	6263.6	6574.9	6531.0	6508.0
4316.4	37.5°	4448.0	4648.6	4774.0	5001.7	5204.3	5601.3	6040.0	6033.8	5985.7
3789.9	40°	3869.3	4080.3	4270.4	4500.3	4657.0	4972.4	5459.2	5457.1	5463.4
3244.6	42.5°	3344.9	3539.2	3769.0	4019.7	4170.2	4400.0	4922.3	4951.5	4987.1
2795.4	45°	2870.6	3046.1	3259.2	3564.3	3746.0	3877.7	4341.5	4475.2	4473.1
2394.3	47.5°	2444.4	2609.5	2789.2	3085.8	3317.7	3436.8	3821.3	4011.4	3998.8
1963.9	50°	2051.7	2197.9	2385.9	2601.1	2912.4	3016.9	3303.1	3553.8	3535.0
1564.9	52.5°	1650.5	1853.2	2012.0	2208.3	2536.4	2638.7	2860.2	3104.6	3090.0
1174.2	55°	1287.0	1483.4	1675.6	1844.8	2120.6	2273.1	2431.9	2682.6	2678.4
919.3	57.5°	973.6	1188.8	1370.6	1531.4	1750.8	1938.8	2066.3	2294.0	2323.3
628.9	60°	720.8	885.8	1082.2	1261.9	1435.3	1629.6	1715.3	1938.8	1951.4
430.4	62.5°	491.0	672.7	865.0	1027.9	1157.4	1358.0	1435.3	1619.2	1642.2
275.8	65°	340.5	457.5	676.9	793.9	952.7	1124.0	1201.3	1347.6	1393.5
158.8	67.5°	225.6	325.9	528.6	635.1	791.8	908.8	1007.0	1126.1	1176.3
100.3	70°	123.3	240.3	378.2	501.4	637.2	750.0	846.1	942.3	986.1
46.0	72.5°	83.6	160.9	263.2	397.0	514.0	624.7	710.3	781.4	783.5
27.2	75°	41.8	108.6	200.6	307.1	401.1	509.8	587.1	628.9	578.7
16.7	77.5°	25.1	79.4	163.0	246.5	325.9	411.6	455.5	478.4	397.0
12.5	80°	14.6	56.4	127.4	196.4	225.6	302.9	344.7	351.0	265.3
8.4	82.5°	10.4	41.8	100.3	144.2	137.9	213.1	259.1	250.7	169.2
6.3	85°	6.3	29.2	62.7	89.8	83.6	140.0	150.4	154.6	98.2
4.2	87.5°	4.2	16.7	33.4	48.1	39.7	60.6	60.6	73.1	48.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11290.4
11010.4
11056.4
10922.6
10738.8
10513.1
10247.8
9930.2
9506.1
9094.5
8578.5
8118.9
7575.7
7053.3
6476.7
6025.4
5463.4
4968.3
4477.3
4003.0
3551.7
3121.4
2688.9
2310.7
1970.2
1646.3
1383.1
1170.0
969.4
764.7
541.1
382.3
248.6
156.7
89.8
41.8
0.0

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