

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: P636755

Luminaire Tested: **IFLD-M-SA4D-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636755
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15400.4 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

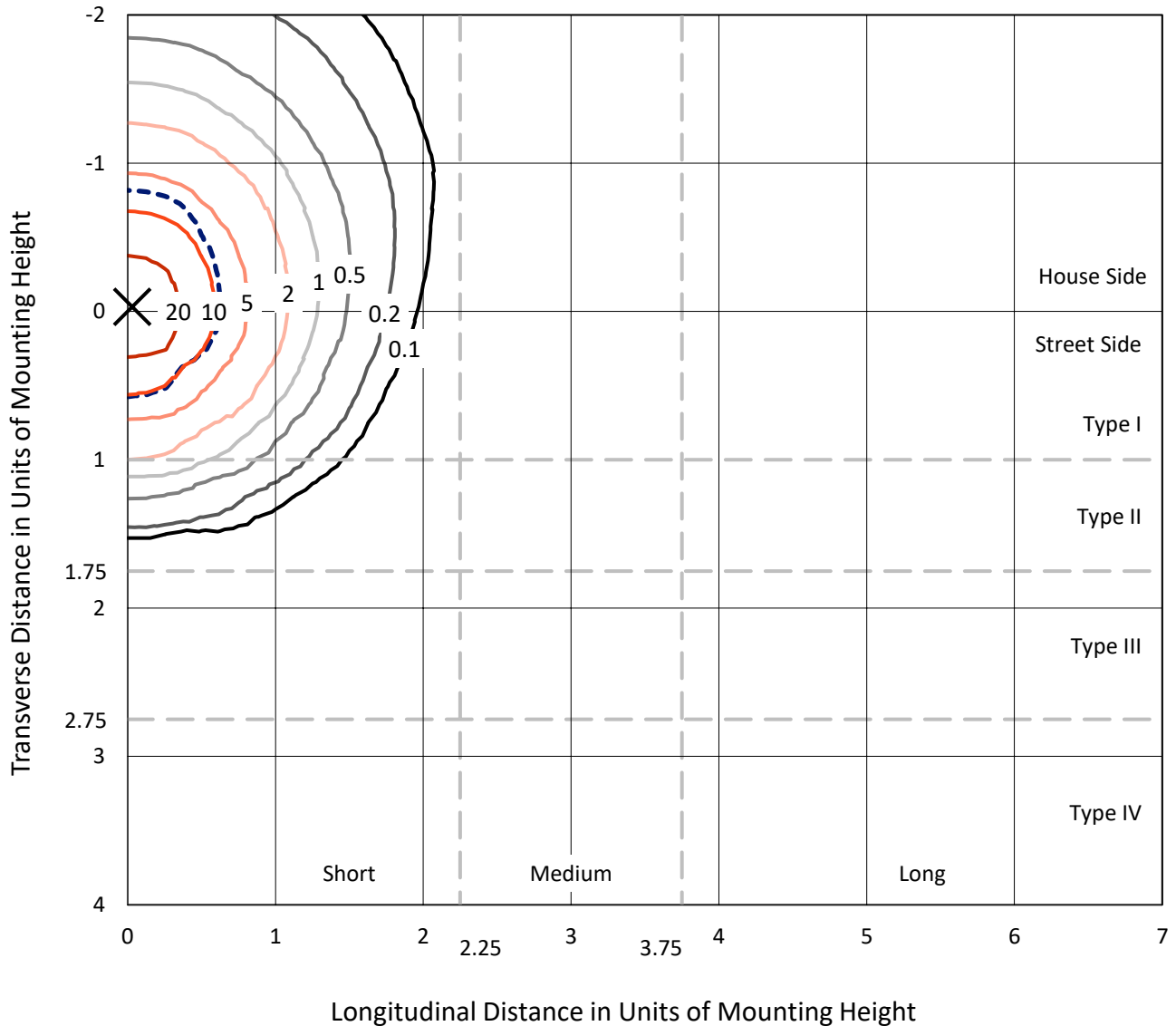
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

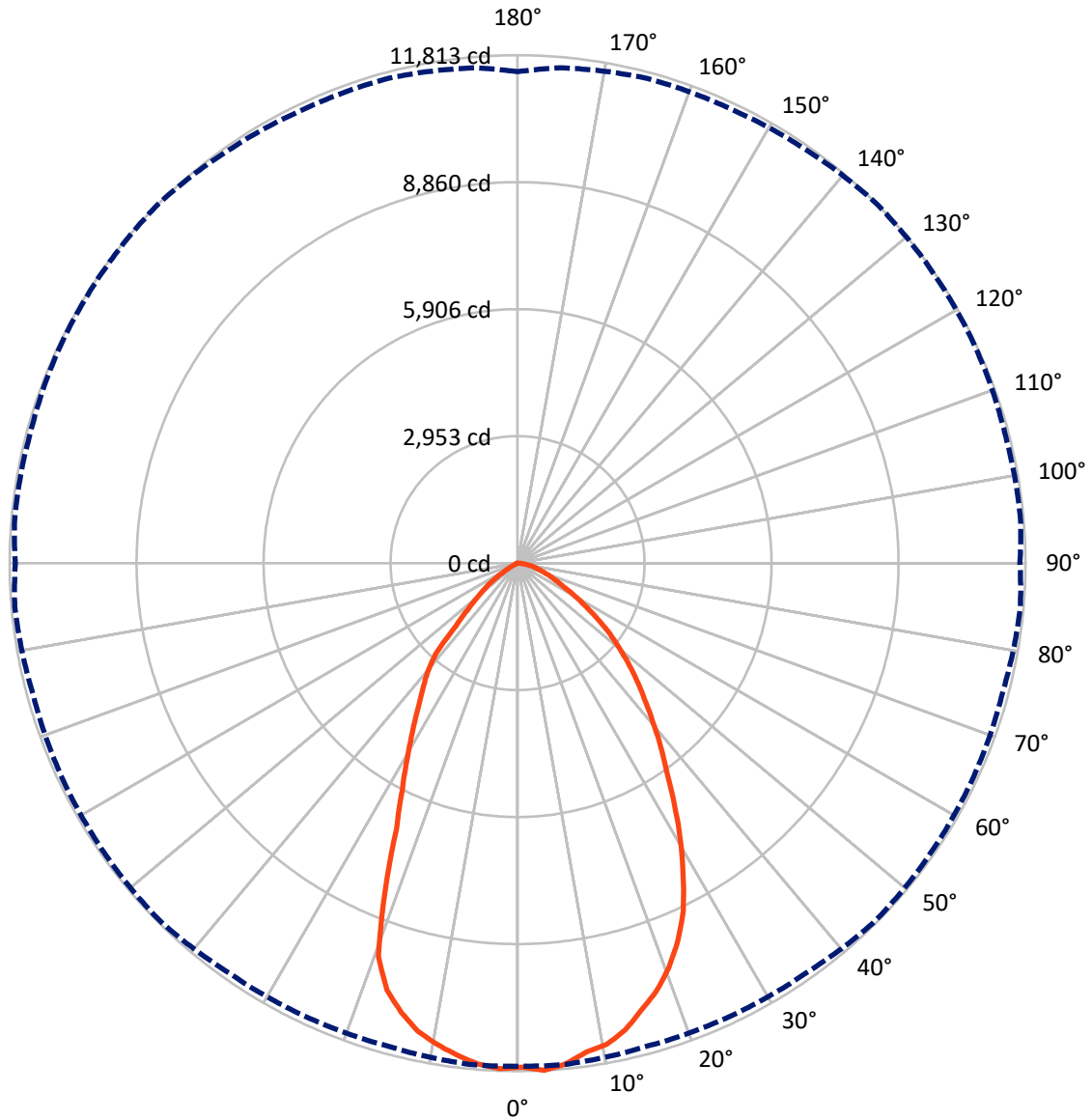
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.3 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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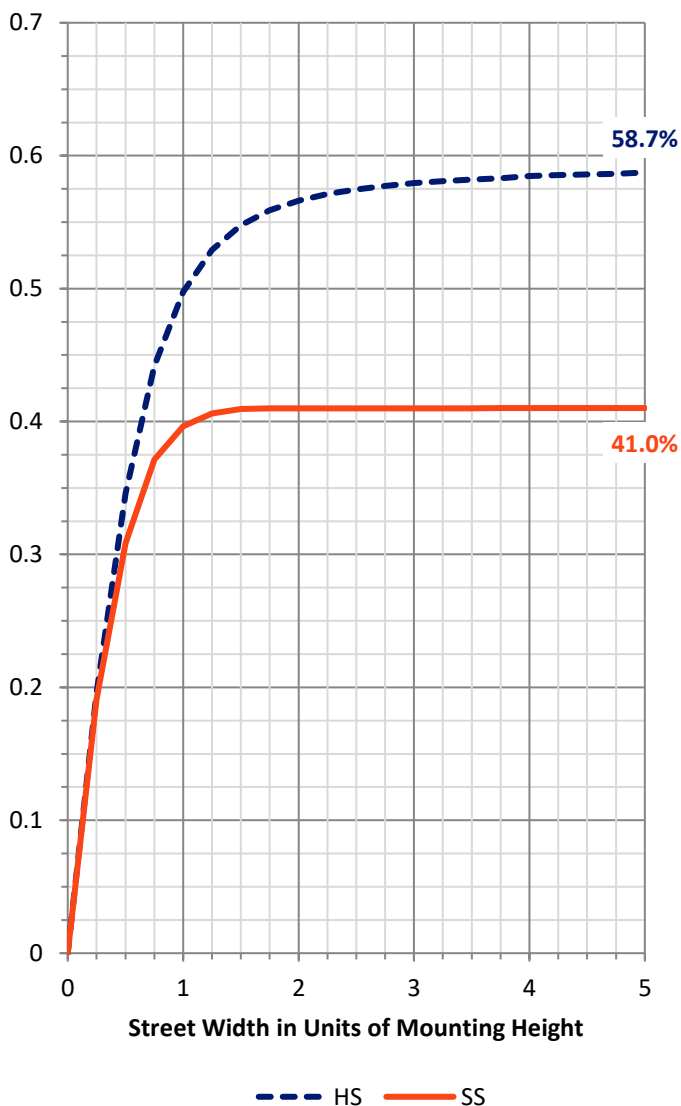
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9120.9	0.0	9120.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6279.5	0.0	6279.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	15400.4	0.0	15400.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1099.1	7.1
10°-20°	2947.4	19.1
20°-30°	3594.5	23.3
30°-40°	3281.7	21.3
40°-50°	2371.6	15.4
50°-60°	1294.9	8.4
60°-70°	535.4	3.5
70°-80°	216.8	1.4
80°-90°	59.0	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°	15400.4	100.0
0°-180°	15400.4	100.0



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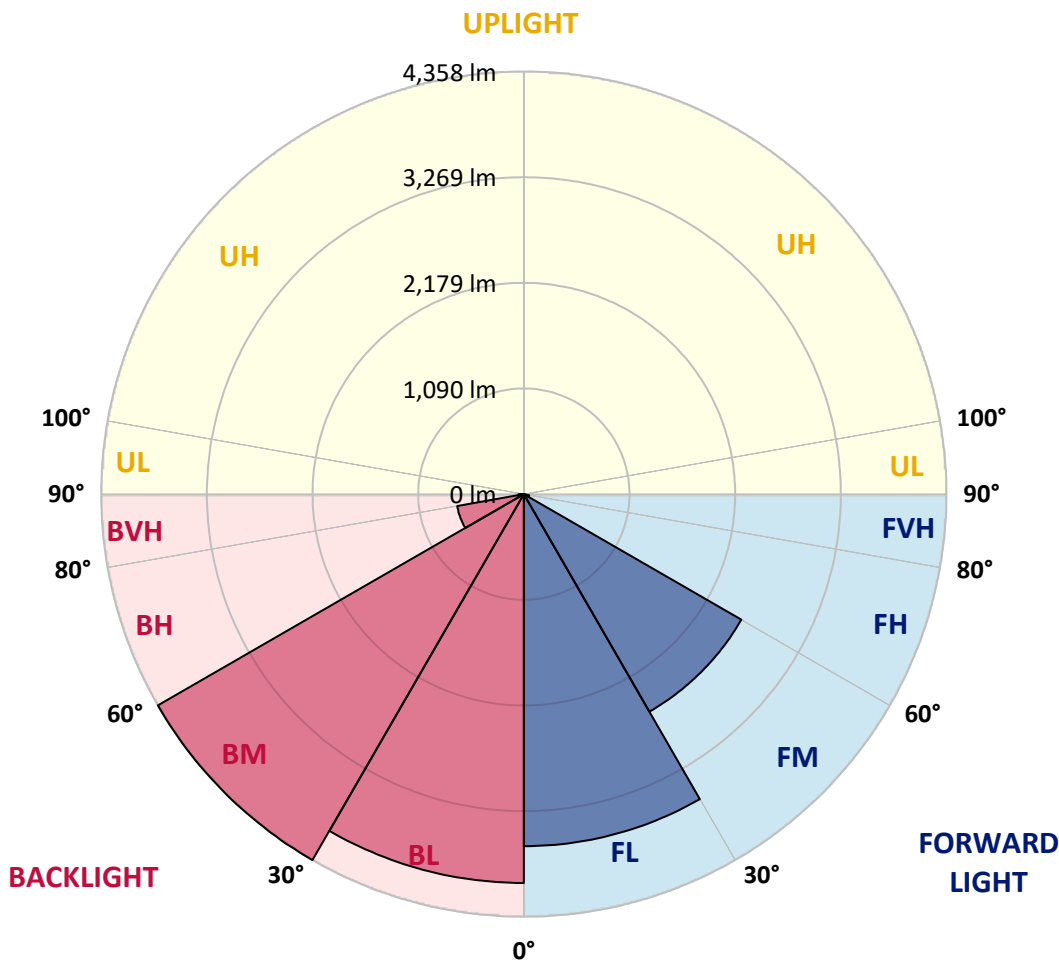
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3630.4	23.6			
FM (30°-60°)	2590.1	16.8			
FH (60°-80°)	54.3	0.4			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	4010.5	26.0	B4/5000		
BM (30°-60°)	4358.2	28.3	B3/5000		
BH (60°-80°)	698.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	54.3	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°	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6
2.5°	11698.0	11713.1	11630.7	11639.4	11654.6	11765.2	11737.0	11711.0	11674.1	11737.0
5°	11682.8	11691.5	11604.7	11574.3	11587.4	11687.1	11596.0	11596.0	11587.4	11576.5
7.5°	11565.7	11570.0	11502.8	11448.6	11483.3	11528.8	11461.6	11494.1	11446.4	11483.3
10°	11390.0	11361.8	11281.6	11266.4	11305.4	11348.8	11303.3	11333.6	11290.2	11318.4
12.5°	11131.9	11088.6	11023.5	11004.0	11071.2	11129.8	11092.9	11075.5	11019.2	11088.6
15°	10136.5	10104.0	10251.4	10509.5	10741.6	10791.4	10752.4	10769.8	10652.6	10672.2
17.5°	8343.0	8282.3	8440.6	9052.1	9924.0	10383.7	10349.0	10236.3	10062.8	10101.8
20°	7581.8	7564.4	7547.1	7692.4	8301.8	9696.3	9744.0	9457.7	9210.5	9156.2
22.5°	7152.4	7145.9	7128.5	7161.0	7321.5	8217.2	8763.7	8499.1	8334.3	8319.1
25°	6759.8	6749.0	6696.9	6738.1	6738.1	6790.2	7490.7	7651.2	7505.9	7488.5
27.5°	6360.8	6341.3	6332.6	6352.1	6252.4	5901.0	6078.9	6861.8	6785.9	6790.2
30°	5929.2	5922.7	5898.9	5940.1	5632.1	5196.2	5083.4	6146.1	6161.3	6156.9
32.5°	5287.3	5315.5	5423.9	5469.5	4962.0	4602.0	4413.3	5317.6	5627.8	5621.3
35°	3840.8	3840.8	4194.3	4851.4	4348.2	4077.2	3975.2	4508.7	5100.8	5122.5
37.5°	3157.6	3168.5	3237.9	3537.1	3751.8	3656.4	3626.1	3795.2	4424.1	4458.8
40°	2841.0	2841.0	2841.0	2717.4	2710.9	3294.3	3276.9	3222.7	3821.2	3897.2
42.5°	2552.6	2559.1	2563.4	2251.1	2077.6	2847.5	2808.5	2726.1	3281.2	3370.2
45°	2255.4	2266.3	2279.3	1882.4	1806.5	2049.4	2376.9	2285.8	2747.7	2862.7
47.5°	1377.1	1394.5	1689.4	1596.2	1604.8	1581.0	1938.8	1923.6	2253.3	2415.9
50°	930.4	936.9	965.1	1012.8	1377.1	1242.7	1372.8	1591.8	1711.1	1958.3
52.5°	780.7	791.6	722.2	657.1	904.3	971.6	958.6	1181.9	1229.7	1535.4
55°	548.7	583.4	550.8	544.3	514.0	754.7	726.5	908.7	939.0	1166.8
57.5°	56.4	65.1	112.8	405.5	336.1	427.2	518.3	665.8	696.2	861.0
60°	4.3	4.3	10.8	56.4	245.1	255.9	357.8	409.9	468.4	600.7
62.5°	0.0	2.2	4.3	8.7	39.0	136.6	180.0	214.7	281.9	388.2
65°	0.0	0.0	2.2	6.5	8.7	52.0	69.4	112.8	154.0	240.7
67.5°	0.0	0.0	2.2	4.3	6.5	13.0	23.9	41.2	82.4	136.6
70°	0.0	0.0	2.2	4.3	6.5	10.8	17.3	26.0	36.9	73.7
72.5°	0.0	0.0	2.2	2.2	4.3	10.8	13.0	17.3	26.0	36.9
75°	0.0	0.0	2.2	2.2	6.5	13.0	10.8	13.0	17.3	23.9
77.5°	0.0	0.0	2.2	4.3	6.5	13.0	10.8	13.0	13.0	15.2
80°	0.0	0.0	2.2	4.3	8.7	15.2	13.0	13.0	10.8	10.8
82.5°	0.0	0.0	2.2	6.5	8.7	19.5	19.5	17.3	8.7	6.5
85°	0.0	0.0	4.3	8.7	13.0	21.7	21.7	17.3	6.5	4.3
87.5°	0.0	0.0	4.3	6.5	10.8	15.2	21.7	17.3	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°
11719.6	0°	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6	11719.6
11682.8	2.5°	11741.3	11728.3	11771.7	11789.0	11812.9	11721.8	11665.4	11667.6	11563.5
11550.5	5°	11619.9	11622.1	11678.4	11674.1	11698.0	11648.1	11626.4	11589.5	11498.4
11383.5	7.5°	11465.9	11446.4	11500.6	11541.8	11481.1	11515.8	11465.9	11483.3	11429.0
11236.0	10°	11346.6	11301.1	11351.0	11379.2	11381.3	11346.6	11298.9	11253.4	11233.9
11006.1	12.5°	11082.1	11023.5	11108.1	11147.1	11140.6	11073.4	11019.2	11030.0	10967.1
10602.8	15°	10717.7	10719.9	10780.6	10817.5	10782.8	10767.6	10771.9	10745.9	10691.7
10045.4	17.5°	10160.4	10192.9	10353.4	10442.3	10461.8	10431.4	10416.3	10385.9	10331.7
9156.2	20°	9232.2	9427.3	9713.6	9989.0	10043.2	10034.6	9980.4	9967.3	9937.0
8275.8	22.5°	8416.7	8562.0	8893.8	9323.2	9544.4	9566.1	9501.1	9481.6	9449.0
7488.5	25°	7573.1	7729.2	8028.5	8494.8	8952.4	9045.6	9034.8	8976.2	8941.5
6790.2	27.5°	6861.8	7017.9	7289.0	7709.7	8199.8	8499.1	8527.3	8434.1	8431.9
6167.8	30°	6219.8	6434.5	6640.6	6983.2	7458.2	7907.1	7954.8	7889.7	7896.2
5597.4	32.5°	5716.7	5894.5	6070.2	6300.1	6694.8	7217.4	7403.9	7343.2	7319.4
5122.5	35°	5202.7	5324.2	5504.2	5714.5	5983.4	6501.8	6824.9	6779.4	6755.5
4480.5	37.5°	4617.2	4825.4	4955.5	5191.9	5402.2	5814.3	6269.7	6263.2	6213.3
3934.0	40°	4016.4	4235.5	4432.8	4671.4	4834.0	5161.5	5666.8	5664.6	5671.1
3368.0	42.5°	3472.1	3673.8	3912.3	4172.6	4328.7	4567.3	5109.5	5139.8	5176.7
2901.7	45°	2979.8	3162.0	3383.2	3699.8	3888.5	4025.1	4506.6	4645.4	4643.2
2485.3	47.5°	2537.4	2708.7	2895.2	3203.2	3443.9	3567.5	3966.5	4163.9	4150.9
2038.6	50°	2129.7	2281.5	2476.7	2700.0	3023.2	3131.6	3428.7	3689.0	3669.4
1624.4	52.5°	1713.3	1923.6	2088.5	2292.3	2632.8	2739.1	2968.9	3222.7	3207.5
1218.8	55°	1335.9	1539.8	1739.3	1915.0	2201.2	2359.5	2524.4	2784.6	2780.3
954.2	57.5°	1010.6	1234.0	1422.7	1589.7	1817.4	2012.6	2144.8	2381.2	2411.6
652.8	60°	748.2	919.5	1123.4	1309.9	1489.9	1691.6	1780.5	2012.6	2025.6
446.8	62.5°	509.6	698.3	897.8	1067.0	1201.5	1409.7	1489.9	1680.7	1704.6
286.3	65°	353.5	474.9	702.7	824.1	988.9	1166.8	1247.0	1398.8	1446.5
164.8	67.5°	234.2	338.3	548.7	659.3	821.9	943.4	1045.3	1168.9	1221.0
104.1	70°	128.0	249.4	392.5	520.5	661.5	778.6	878.3	978.1	1023.6
47.7	72.5°	86.7	167.0	273.3	412.1	533.5	648.4	737.4	811.1	813.3
28.2	75°	43.4	112.8	208.2	318.8	416.4	529.2	609.4	652.8	600.7
17.3	77.5°	26.0	82.4	169.2	255.9	338.3	427.2	472.8	496.6	412.1
13.0	80°	15.2	58.6	132.3	203.9	234.2	314.5	357.8	364.3	275.4
8.7	82.5°	10.8	43.4	104.1	149.6	143.1	221.2	268.9	260.2	175.7
6.5	85°	6.5	30.4	65.1	93.3	86.7	145.3	156.1	160.5	101.9
4.3	87.5°	4.3	17.3	34.7	49.9	41.2	62.9	62.9	75.9	49.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11719.6
11429.0
11476.8
11338.0
11147.1
10912.9
10637.5
10307.8
9867.6
9440.3
8904.7
8427.6
7863.7
7321.5
6723.0
6254.5
5671.1
5157.2
4647.5
4155.2
3686.8
3240.0
2791.1
2398.6
2045.1
1708.9
1435.7
1214.5
1006.3
793.7
561.7
396.9
258.1
162.7
93.3
43.4
0.0

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