

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: P638060

Luminaire Tested: **IFLD-M-SA4D-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638060
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17724.9 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

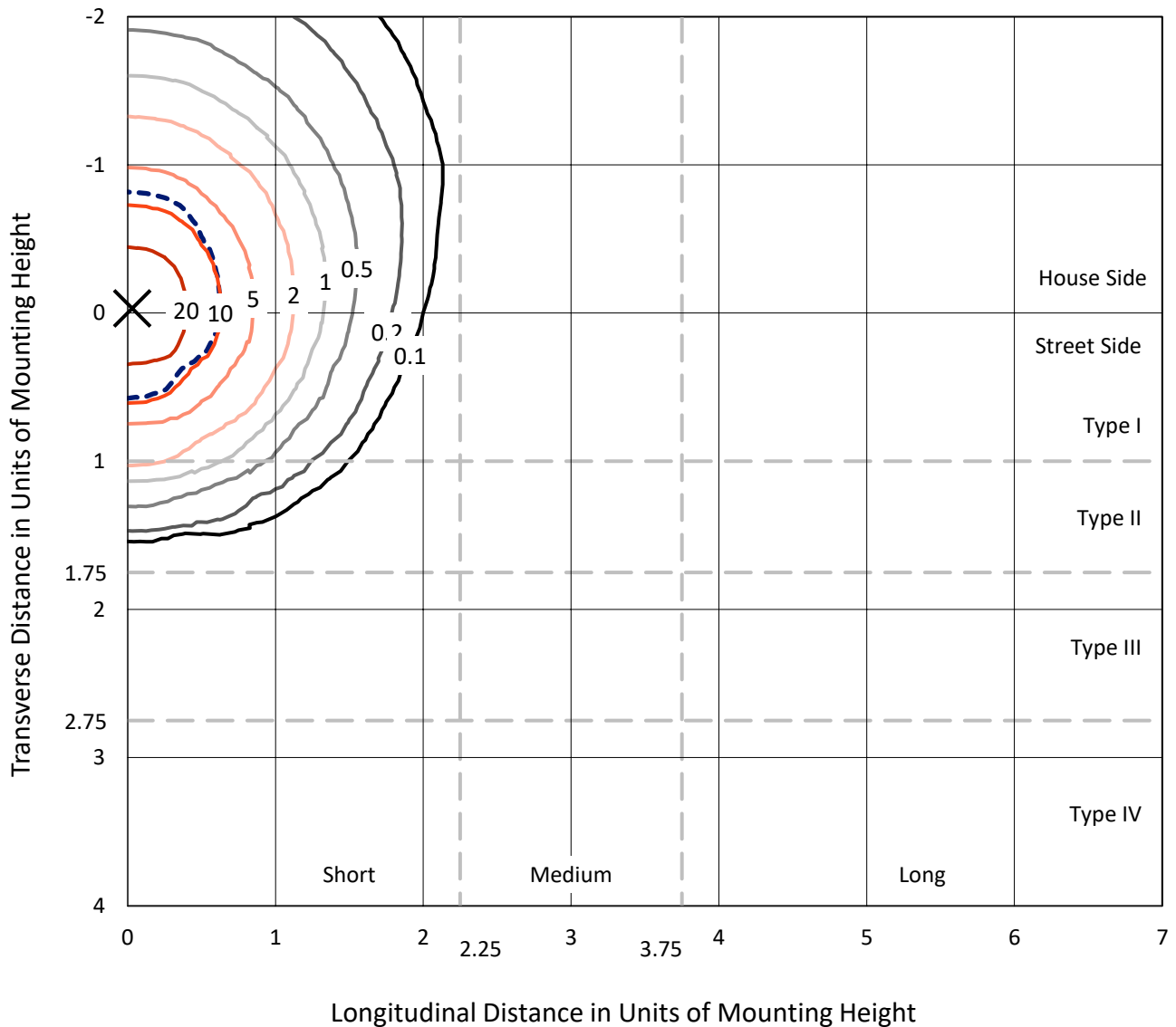
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

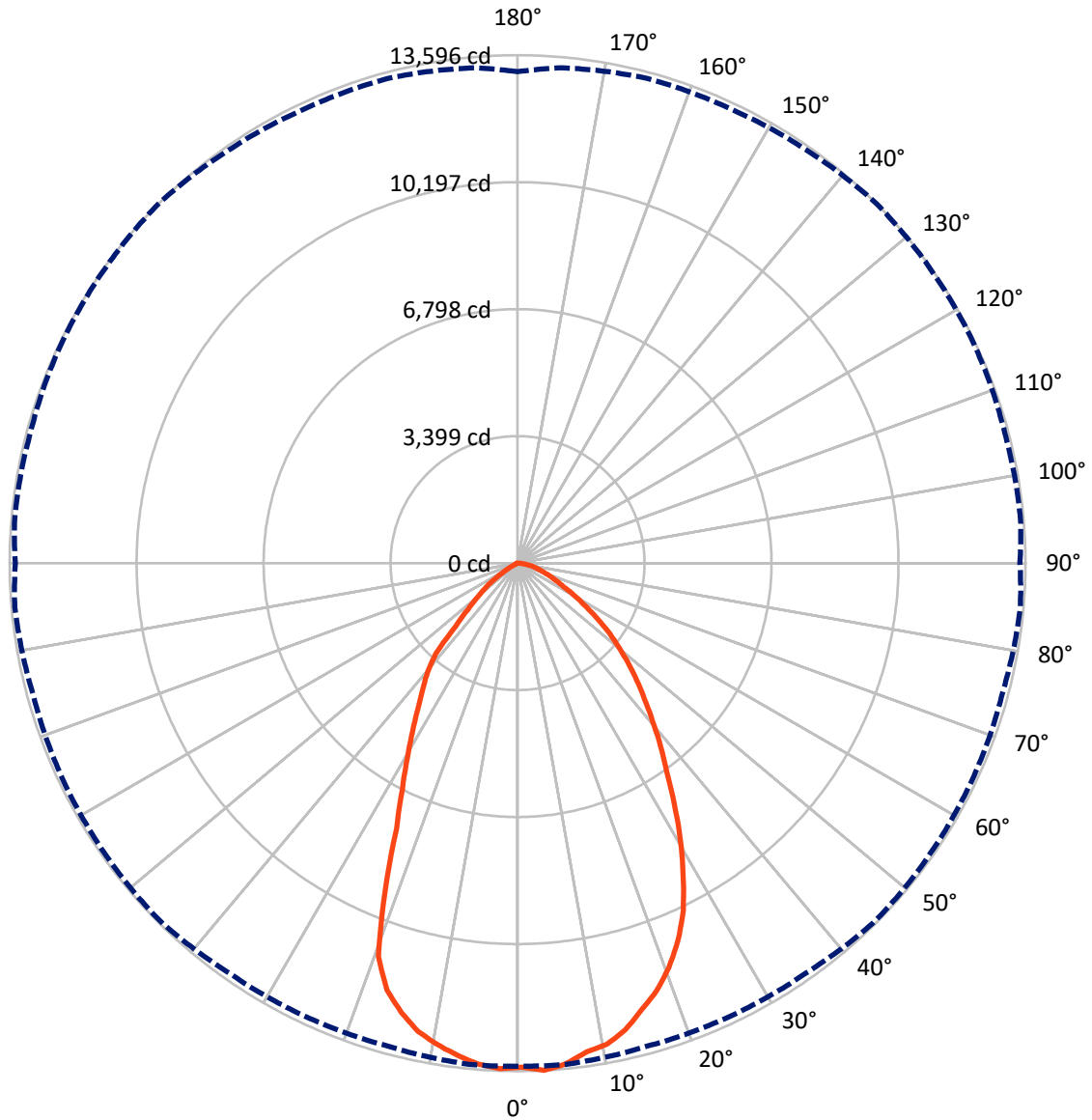
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.7 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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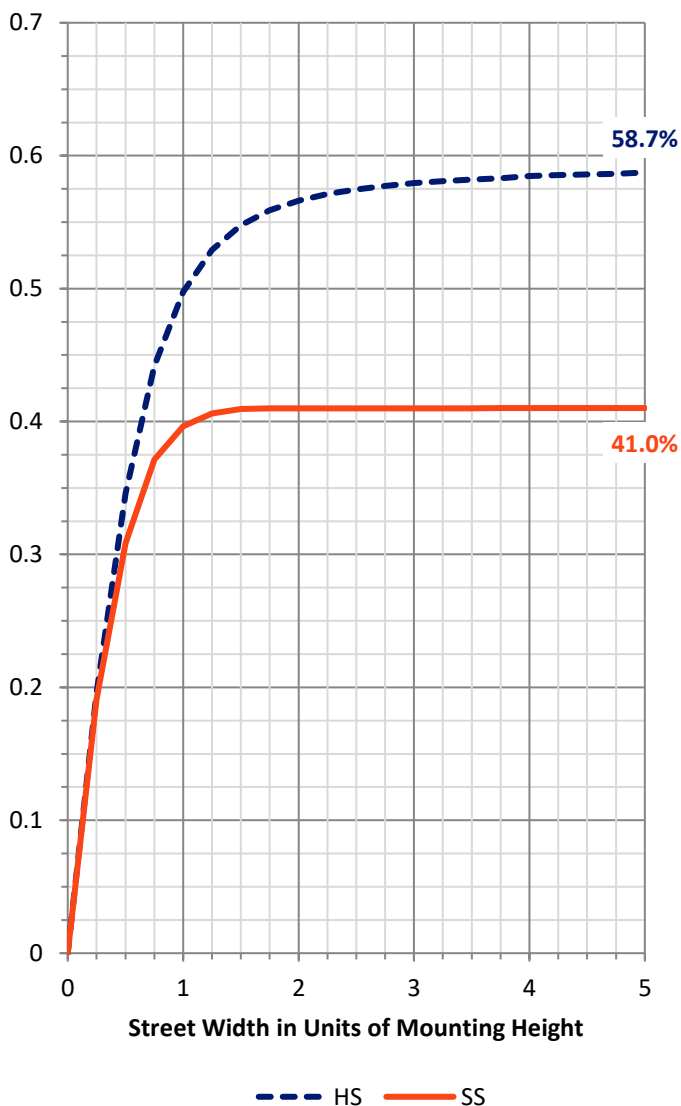
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10497.6	0.0	10497.6
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7227.3	0.0	7227.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	17724.9	0.0	17724.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1265.0	7.1
10°-20°	3392.2	19.1
20°-30°	4137.0	23.3
30°-40°	3777.0	21.3
40°-50°	2729.6	15.4
50°-60°	1490.4	8.4
60°-70°	616.2	3.5
70°-80°	249.6	1.4
80°-90°	67.9	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°	17724.9	100.0
0°-180°	17724.9	100.0



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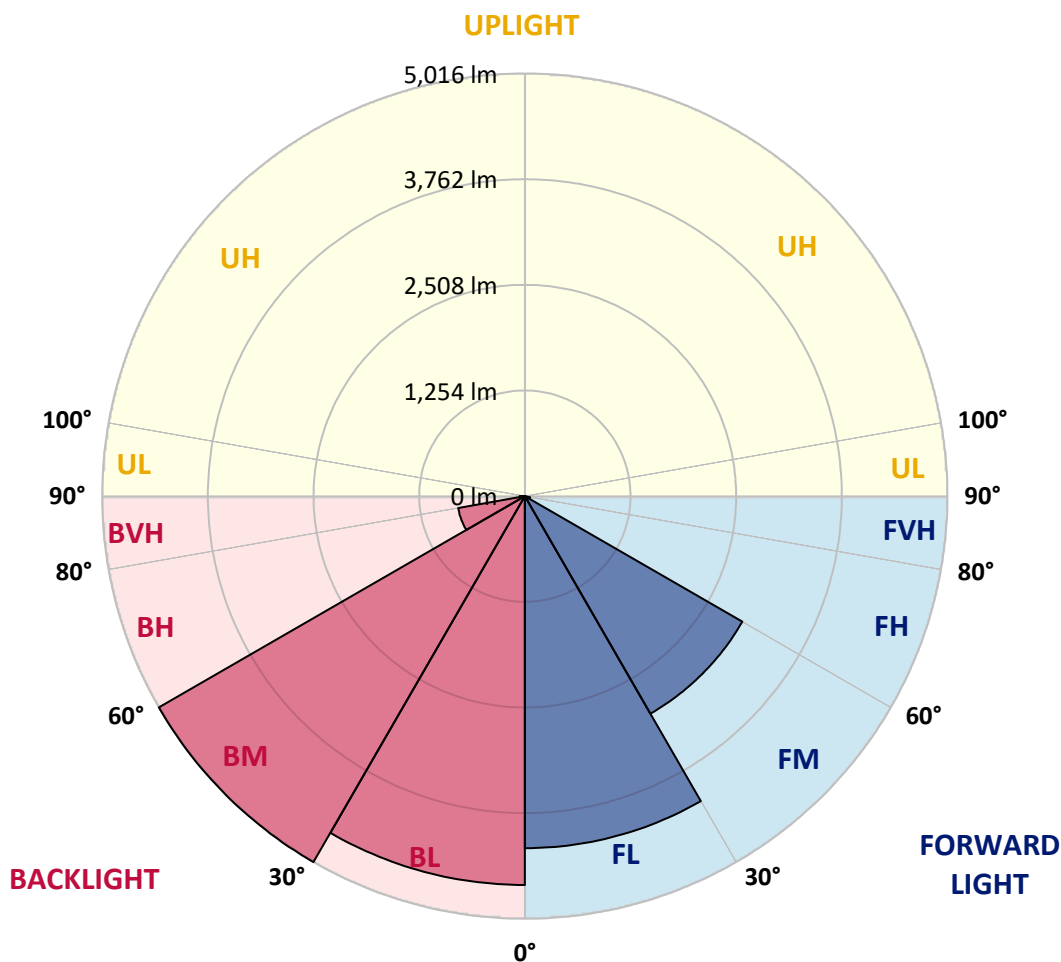
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4178.4	23.6			
FM (30°-60°)	2981.0	16.8			
FH (60°-80°)	62.5	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	4615.8	26.0	B4/5000		
BM (30°-60°)	5016.0	28.3	B4/8500		
BH (60°-80°)	803.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.4	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°	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6
2.5°	13463.6	13481.1	13386.2	13396.2	13413.7	13541.0	13508.6	13478.6	13436.2	13508.6
5°	13446.1	13456.1	13356.3	13321.3	13336.3	13451.1	13346.3	13346.3	13336.3	13323.8
7.5°	13311.4	13316.4	13239.0	13176.6	13216.5	13268.9	13191.6	13229.0	13174.1	13216.5
10°	13109.2	13076.7	12984.4	12966.9	13011.8	13061.8	13009.3	13044.3	12994.4	13026.8
12.5°	12812.2	12762.2	12687.4	12664.9	12742.3	12809.7	12767.2	12747.3	12682.4	12762.2
15°	11666.5	11629.0	11798.8	12095.8	12362.9	12420.3	12375.3	12395.3	12260.5	12283.0
17.5°	9602.3	9532.4	9714.6	10418.5	11421.9	11951.0	11911.1	11781.3	11581.6	11626.5
20°	8726.1	8706.2	8686.2	8853.4	9554.8	11159.8	11214.7	10885.2	10600.7	10538.3
22.5°	8231.9	8224.4	8204.5	8241.9	8426.6	9457.5	10086.5	9782.0	9592.3	9574.8
25°	7780.1	7767.7	7707.8	7755.2	7755.2	7815.1	8621.3	8806.0	8638.8	8618.8
27.5°	7320.9	7298.4	7288.4	7310.9	7196.1	6791.7	6996.4	7897.5	7810.1	7815.1
30°	6824.2	6816.7	6789.2	6836.6	6482.2	5980.5	5850.7	7073.8	7091.2	7086.2
32.5°	6085.3	6117.8	6242.6	6295.0	5710.9	5296.6	5079.4	6120.3	6477.2	6469.7
35°	4420.5	4420.5	4827.3	5583.6	5004.6	4692.5	4575.2	5189.3	5870.7	5895.6
37.5°	3634.2	3646.7	3726.6	4071.0	4318.1	4208.3	4173.4	4368.1	5091.9	5131.9
40°	3269.8	3269.8	3269.8	3127.5	3120.0	3791.5	3771.5	3709.1	4398.0	4485.4
42.5°	2937.8	2945.3	2950.3	2590.9	2391.2	3277.3	3232.4	3137.5	3776.5	3878.8
45°	2595.9	2608.4	2623.3	2166.6	2079.2	2358.8	2735.7	2630.8	3162.5	3294.8
47.5°	1585.0	1605.0	1944.4	1837.1	1847.1	1819.6	2231.5	2214.0	2593.4	2780.6
50°	1070.8	1078.3	1110.7	1165.6	1585.0	1430.2	1580.0	1832.1	1969.4	2253.9
52.5°	898.6	911.1	831.2	756.3	1040.8	1118.2	1103.2	1360.3	1415.3	1767.2
55°	631.5	671.4	634.0	626.5	591.6	868.6	836.2	1045.8	1080.8	1342.9
57.5°	64.9	74.9	129.8	466.8	386.9	491.7	596.6	766.3	801.2	990.9
60°	5.0	5.0	12.5	64.9	282.1	294.5	411.8	471.8	539.1	691.4
62.5°	0.0	2.5	5.0	10.0	44.9	157.3	207.2	247.1	324.5	446.8
65°	0.0	0.0	2.5	7.5	10.0	59.9	79.9	129.8	177.2	277.1
67.5°	0.0	0.0	2.5	5.0	7.5	15.0	27.5	47.4	94.8	157.3
70°	0.0	0.0	2.5	5.0	7.5	12.5	20.0	30.0	42.4	84.9
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	15.0	20.0	30.0	42.4
75°	0.0	0.0	2.5	2.5	7.5	15.0	12.5	15.0	20.0	27.5
77.5°	0.0	0.0	2.5	5.0	7.5	15.0	12.5	15.0	15.0	17.5
80°	0.0	0.0	2.5	5.0	10.0	17.5	15.0	15.0	12.5	12.5
82.5°	0.0	0.0	2.5	7.5	10.0	22.5	22.5	20.0	10.0	7.5
85°	0.0	0.0	5.0	10.0	15.0	25.0	25.0	20.0	7.5	5.0
87.5°	0.0	0.0	5.0	7.5	12.5	17.5	25.0	20.0	7.5	2.5
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°
13488.6	0°	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6	13488.6
13446.1	2.5°	13513.5	13498.6	13548.5	13568.5	13595.9	13491.1	13426.2	13428.7	13308.9
13293.9	5°	13373.8	13376.3	13441.2	13436.2	13463.6	13406.2	13381.3	13338.8	13234.0
13101.7	7.5°	13196.5	13174.1	13236.5	13283.9	13214.0	13254.0	13196.5	13216.5	13154.1
12932.0	10°	13059.3	13006.8	13064.3	13096.7	13099.2	13059.3	13004.4	12951.9	12929.5
12667.4	12.5°	12754.7	12687.4	12784.7	12829.6	12822.1	12744.8	12682.4	12694.8	12622.5
12203.1	15°	12335.4	12337.9	12407.8	12450.2	12410.3	12392.8	12397.8	12367.9	12305.5
11561.6	17.5°	11693.9	11731.4	11916.1	12018.4	12040.9	12005.9	11988.5	11953.5	11891.1
10538.3	20°	10625.6	10850.3	11179.7	11496.7	11559.1	11549.2	11486.8	11471.8	11436.8
9524.9	22.5°	9687.1	9854.4	10236.2	10730.5	10985.1	11010.0	10935.1	10912.7	10875.2
8618.8	25°	8716.2	8895.9	9240.3	9777.0	10303.6	10411.0	10398.5	10331.1	10291.2
7815.1	27.5°	7897.5	8077.2	8389.2	8873.4	9437.5	9782.0	9814.4	9707.1	9704.6
7098.7	30°	7158.6	7405.7	7642.9	8037.2	8583.9	9100.5	9155.5	9080.6	9088.1
6442.3	32.5°	6579.6	6784.2	6986.4	7251.0	7705.3	8306.8	8521.5	8451.6	8424.1
5895.6	35°	5988.0	6127.8	6334.9	6577.1	6886.6	7483.1	7855.0	7802.6	7775.2
5156.8	37.5°	5314.1	5553.7	5703.4	5975.5	6217.6	6691.9	7216.0	7208.6	7151.1
4527.8	40°	4622.7	4874.8	5101.9	5376.5	5563.7	5940.6	6522.1	6519.6	6527.1
3876.3	42.5°	3996.2	4228.3	4502.9	4802.4	4982.1	5256.7	5880.7	5915.6	5958.0
3339.7	45°	3429.6	3639.2	3893.8	4258.2	4475.4	4632.6	5186.8	5346.5	5344.0
2860.5	47.5°	2920.4	3117.5	3332.2	3686.6	3963.7	4106.0	4565.3	4792.4	4777.4
2346.3	50°	2451.1	2625.8	2850.5	3107.6	3479.5	3604.3	3946.2	4245.8	4223.3
1869.5	52.5°	1971.9	2214.0	2403.7	2638.3	3030.2	3152.5	3417.1	3709.1	3691.6
1402.8	55°	1537.6	1772.2	2001.8	2204.0	2533.5	2715.7	2905.4	3204.9	3199.9
1098.3	57.5°	1163.2	1420.2	1637.4	1829.6	2091.7	2316.3	2468.6	2740.6	2775.6
751.3	60°	861.1	1058.3	1292.9	1507.6	1714.8	1946.9	2049.2	2316.3	2331.3
514.2	62.5°	586.6	803.7	1033.4	1228.1	1382.8	1622.4	1714.8	1934.4	1961.9
329.5	65°	406.9	546.6	808.7	948.5	1138.2	1342.9	1435.2	1609.9	1664.9
189.7	67.5°	269.6	389.4	631.5	758.8	946.0	1085.8	1203.1	1345.4	1405.3
119.8	70°	147.3	287.0	451.8	599.0	761.3	896.1	1010.9	1125.7	1178.1
54.9	72.5°	99.8	192.2	314.5	474.2	614.0	746.3	848.7	933.5	936.0
32.4	75°	49.9	129.8	239.6	366.9	479.2	609.0	701.4	751.3	691.4
20.0	77.5°	30.0	94.8	194.7	294.5	389.4	491.7	544.1	571.6	474.2
15.0	80°	17.5	67.4	152.3	234.6	269.6	361.9	411.8	419.3	317.0
10.0	82.5°	12.5	49.9	119.8	172.2	164.7	254.6	309.5	299.5	202.2
7.5	85°	7.5	34.9	74.9	107.3	99.8	167.2	179.7	184.7	117.3
5.0	87.5°	5.0	20.0	39.9	57.4	47.4	72.4	72.4	87.4	57.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13488.6
<i>13154.1</i>
13209.0
13049.3
12829.6
12560.1
12243.1
11863.7
11357.0
10865.2
10248.7
9699.6
9050.6
8426.6
7737.7
7198.6
6527.1
5935.6
5349.0
4782.4
4243.3
3729.1
3212.4
2760.6
2353.8
1966.9
1652.4
1397.8
1158.2
913.5
646.5
456.8
297.0
187.2
107.3
49.9
0.0

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