

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: P636727

Luminaire Tested: **IFLD-M-SA4E-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636727
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17630.6 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

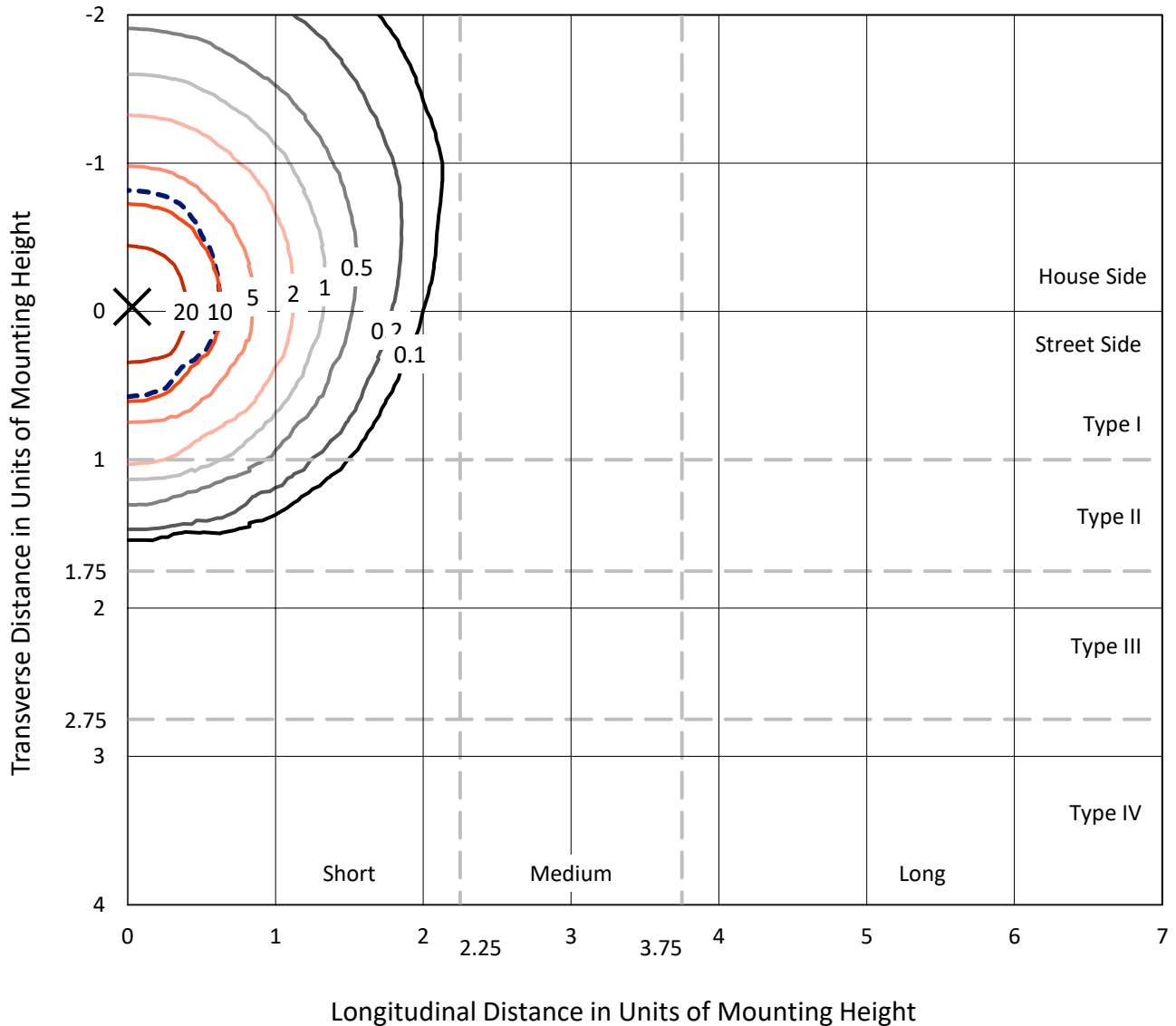
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636727
 CATALOG NUMBER: IFLD-M-SA4E-927-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

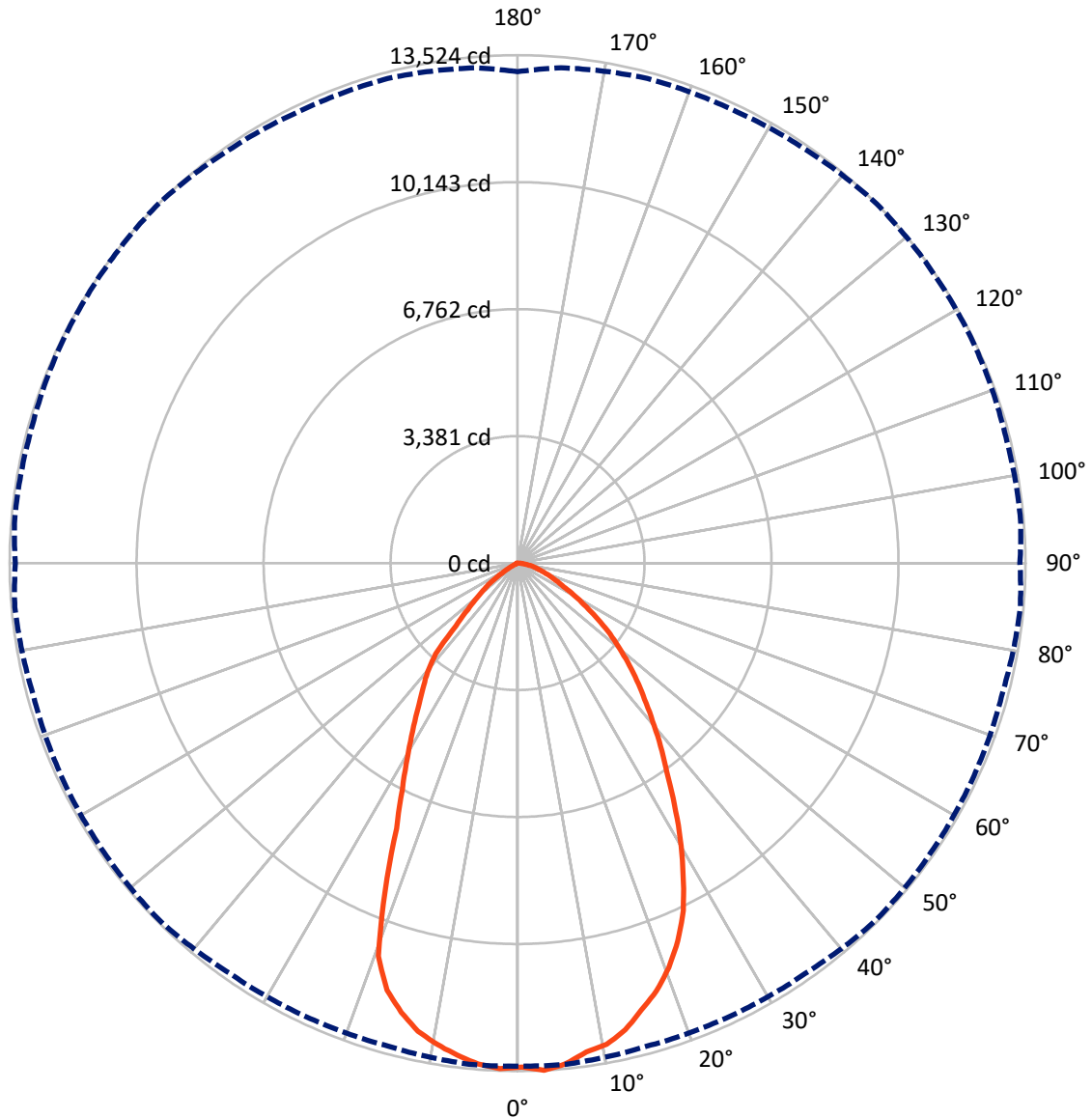
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.5 fc
 Type I - Short - N/A

REPORT NUMBER: P636727
CATALOG NUMBER: IFLD-M-SA4E-927-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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 CATALOG NUMBER: IFLD-M-SA4E-927-U-77-VI

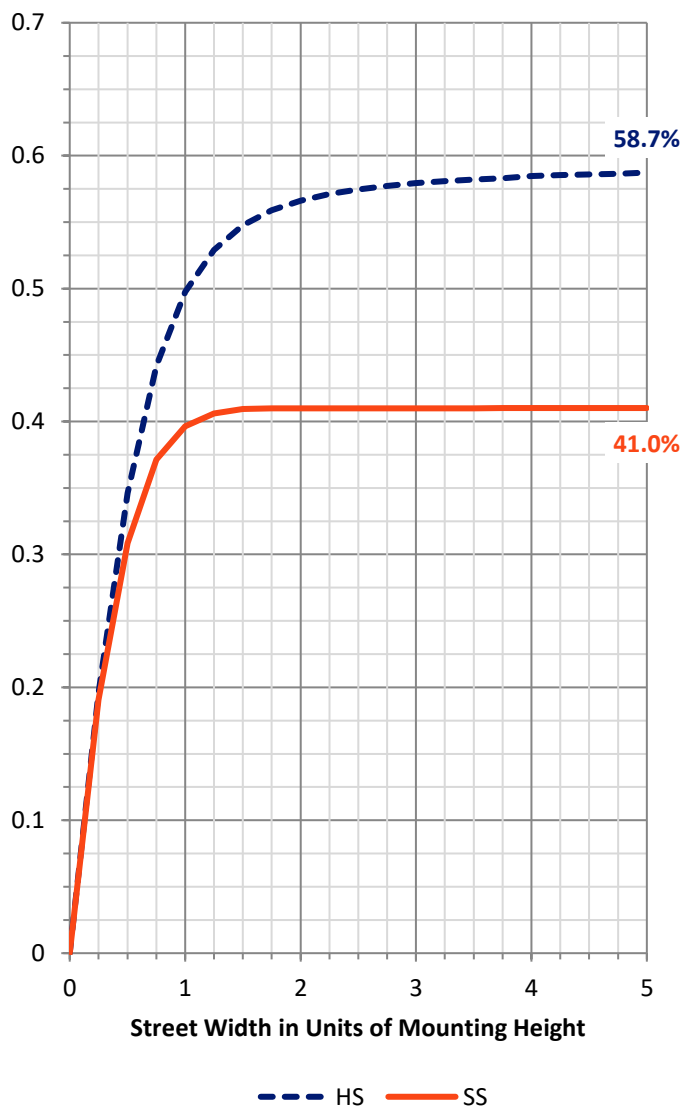
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10441.7	0.0	10441.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7188.8	0.0	7188.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	17630.6	0.0	17630.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1258.3	7.1
10°-20°	3374.2	19.1
20°-30°	4115.0	23.3
30°-40°	3756.9	21.3
40°-50°	2715.1	15.4
50°-60°	1482.5	8.4
60°-70°	612.9	3.5
70°-80°	248.2	1.4
80°-90°	67.5	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°	17630.6	100.0
0°-180°	17630.6	100.0



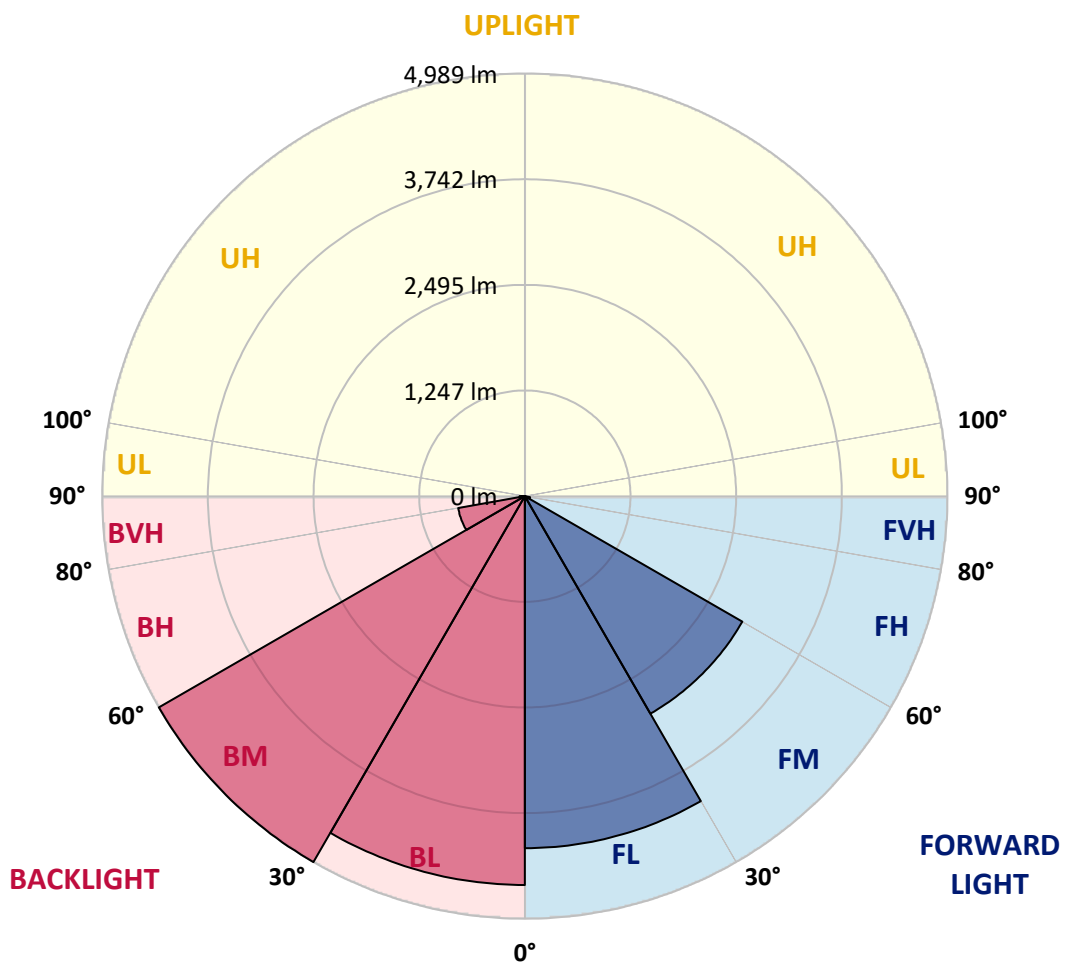
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 CATALOG NUMBER: IFLD-M-SA4E-927-U-77-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4156.2	23.6			
FM (30°-60°)	2965.1	16.8			
FH (60°-80°)	62.1	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	4591.3	26.0	B4/5000		
BM (30°-60°)	4989.3	28.3	B3/5000		
BH (60°-80°)	799.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	62.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





REPORT NUMBER: P636727
 CATALOG NUMBER: IFLD-M-SA4E-927-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8
2.5°	13392.0	13409.4	13315.0	13324.9	13342.3	13468.9	13436.7	13406.9	13364.7	13436.7
5°	13374.6	13384.5	13285.2	13250.5	13265.4	13379.6	13275.3	13275.3	13265.4	13252.9
7.5°	13240.5	13245.5	13168.5	13106.5	13146.2	13198.3	13121.4	13158.6	13104.0	13146.2
10°	13039.4	13007.2	12915.3	12897.9	12942.6	12992.3	12940.1	12974.9	12925.2	12957.5
12.5°	12744.0	12694.3	12619.8	12597.5	12674.5	12741.5	12699.3	12679.4	12614.9	12694.3
15°	11604.4	11567.2	11736.0	12031.4	12297.1	12354.2	12309.5	12329.4	12195.3	12217.6
17.5°	9551.2	9481.6	9662.9	10363.0	11361.1	11887.4	11847.7	11718.6	11520.0	11564.7
20°	8679.7	8659.9	8640.0	8806.3	9504.0	11100.4	11155.0	10827.3	10544.3	10482.2
22.5°	8188.1	8180.7	8160.8	8198.1	8381.8	9407.2	10032.8	9729.9	9541.2	9523.8
25°	7738.7	7726.3	7666.7	7713.9	7713.9	7773.5	8575.4	8759.2	8592.8	8573.0
27.5°	7281.9	7259.6	7249.6	7272.0	7157.8	6755.6	6959.2	7855.4	7768.5	7773.5
30°	6787.9	6780.4	6753.1	6800.3	6447.7	5948.7	5819.6	7036.1	7053.5	7048.5
32.5°	6053.0	6085.2	6209.4	6261.5	5680.5	5268.4	5052.4	6087.7	6442.7	6435.3
35°	4397.0	4397.0	4801.6	5553.9	4977.9	4667.6	4550.9	5161.6	5839.4	5864.3
37.5°	3614.9	3627.3	3706.8	4049.4	4295.2	4185.9	4151.2	4344.8	5064.8	5104.5
40°	3252.4	3252.4	3252.4	3110.9	3103.4	3771.3	3751.4	3689.4	4374.6	4461.5
42.5°	2922.2	2929.7	2934.6	2577.1	2378.5	3259.9	3215.2	3120.8	3756.4	3858.2
45°	2582.1	2594.5	2609.4	2155.0	2068.1	2346.2	2721.1	2616.8	3145.7	3277.2
47.5°	1576.5	1596.4	1934.1	1827.3	1837.2	1809.9	2219.6	2202.2	2579.6	2765.8
50°	1065.1	1072.6	1104.8	1159.4	1576.5	1422.6	1571.6	1822.3	1958.9	2241.9
52.5°	893.8	906.2	826.8	752.3	1035.3	1112.3	1097.4	1353.1	1407.7	1757.8
55°	628.1	667.9	630.6	623.2	588.4	864.0	831.7	1040.3	1075.0	1335.7
57.5°	64.6	74.5	129.1	464.3	384.8	489.1	593.4	762.2	797.0	985.7
60°	5.0	5.0	12.4	64.6	280.6	293.0	409.7	469.2	536.3	687.7
62.5°	0.0	2.5	5.0	9.9	44.7	156.4	206.1	245.8	322.8	444.4
65°	0.0	0.0	2.5	7.4	9.9	59.6	79.4	129.1	176.3	275.6
67.5°	0.0	0.0	2.5	5.0	7.4	14.9	27.3	47.2	94.3	156.4
70°	0.0	0.0	2.5	5.0	7.4	12.4	19.9	29.8	42.2	84.4
72.5°	0.0	0.0	2.5	2.5	5.0	12.4	14.9	19.9	29.8	42.2
75°	0.0	0.0	2.5	2.5	7.4	14.9	12.4	14.9	19.9	27.3
77.5°	0.0	0.0	2.5	5.0	7.4	14.9	12.4	14.9	14.9	17.4
80°	0.0	0.0	2.5	5.0	9.9	17.4	14.9	14.9	12.4	12.4
82.5°	0.0	0.0	2.5	7.4	9.9	22.3	22.3	19.9	9.9	7.4
85°	0.0	0.0	5.0	9.9	14.9	24.8	24.8	19.9	7.4	5.0
87.5°	0.0	0.0	5.0	7.4	12.4	17.4	24.8	19.9	7.4	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636727
 CATALOG NUMBER: IFLD-M-SA4E-927-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13416.8	0°	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8	13416.8
13374.6	2.5°	13441.6	13426.7	13476.4	13496.3	13523.6	13419.3	13354.7	13357.2	13238.1
13223.2	5°	13302.6	13305.1	13369.6	13364.7	13392.0	13334.9	13310.1	13267.8	13163.6
13032.0	7.5°	13126.3	13104.0	13166.1	13213.2	13143.7	13183.4	13126.3	13146.2	13084.1
12863.2	10°	12989.8	12937.6	12994.7	13027.0	13029.5	12989.8	12935.2	12883.0	12860.7
12600.0	12.5°	12686.9	12619.8	12716.7	12761.4	12753.9	12676.9	12614.9	12627.3	12555.3
12138.2	15°	12269.8	12272.3	12341.8	12384.0	12344.3	12326.9	12331.8	12302.1	12240.0
11500.1	17.5°	11631.7	11668.9	11852.7	11954.5	11976.8	11942.1	11924.7	11889.9	11827.8
10482.2	20°	10569.1	10792.5	11120.3	11435.6	11497.6	11487.7	11425.6	11410.7	11376.0
9474.2	22.5°	9635.6	9801.9	10181.8	10673.4	10926.6	10951.4	10877.0	10854.6	10817.4
8573.0	25°	8669.8	8848.5	9191.2	9725.0	10248.8	10355.6	10343.2	10276.1	10236.4
7773.5	27.5°	7855.4	8034.2	8344.5	8826.2	9387.3	9729.9	9762.2	9655.4	9653.0
7061.0	30°	7120.5	7366.3	7602.2	7994.5	8538.2	9052.1	9106.7	9032.3	9039.7
6408.0	32.5°	6544.5	6748.1	6949.2	7212.4	7664.3	8262.6	8476.1	8406.6	8379.3
5864.3	35°	5956.1	6095.2	6301.2	6542.1	6849.9	7443.3	7813.2	7761.1	7733.8
5129.4	37.5°	5285.8	5524.1	5673.1	5943.7	6184.5	6656.3	7177.6	7170.2	7113.1
4503.7	40°	4598.1	4848.8	5074.8	5347.9	5534.1	5909.0	6487.4	6485.0	6492.4
3855.7	42.5°	3974.9	4205.8	4478.9	4776.8	4955.6	5228.7	5849.4	5884.1	5926.3
3321.9	45°	3411.3	3619.9	3873.1	4235.6	4451.6	4608.0	5159.2	5318.1	5315.6
2845.2	47.5°	2904.8	3101.0	3314.5	3667.0	3942.6	4084.1	4541.0	4766.9	4752.0
2333.8	50°	2438.1	2611.9	2835.3	3091.0	3461.0	3585.1	3925.2	4223.2	4200.8
1859.6	52.5°	1961.4	2202.2	2390.9	2624.3	3014.1	3135.7	3398.9	3689.4	3672.0
1395.3	55°	1529.4	1762.8	1991.2	2192.3	2520.0	2701.2	2889.9	3187.9	3182.9
1092.4	57.5°	1157.0	1412.7	1628.7	1819.9	2080.5	2304.0	2455.4	2726.1	2760.8
747.3	60°	856.6	1052.7	1286.1	1499.6	1705.7	1936.5	2038.3	2304.0	2318.9
511.4	62.5°	583.4	799.4	1027.9	1221.5	1375.4	1613.8	1705.7	1924.1	1951.4
327.7	65°	404.7	543.7	804.4	943.4	1132.1	1335.7	1427.6	1601.4	1656.0
188.7	67.5°	268.1	387.3	628.1	754.8	941.0	1080.0	1196.7	1338.2	1397.8
119.2	70°	146.5	285.5	449.4	595.9	757.2	891.3	1005.5	1119.7	1171.9
54.6	72.5°	99.3	191.2	312.8	471.7	610.8	742.3	844.1	928.6	931.0
32.3	75°	49.7	129.1	238.3	365.0	476.7	605.8	697.7	747.3	687.7
19.9	77.5°	29.8	94.3	193.7	293.0	387.3	489.1	541.2	568.6	471.7
14.9	80°	17.4	67.0	151.4	233.4	268.1	360.0	409.7	417.1	315.3
9.9	82.5°	12.4	49.7	119.2	171.3	163.9	253.2	307.9	297.9	201.1
7.4	85°	7.4	34.8	74.5	106.8	99.3	166.3	178.8	183.7	116.7
5.0	87.5°	5.0	19.9	39.7	57.1	47.2	72.0	72.0	86.9	57.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13416.8
<i>13084.1</i>
13138.7
12979.8
12761.4
12493.2
12177.9
11800.5
11296.5
10807.4
10194.2
9648.0
9002.5
8381.8
7696.5
7160.3
6492.4
5904.0
5320.5
4757.0
4220.7
3709.2
3195.3
2745.9
2341.2
1956.4
1643.6
1390.3
1152.0
908.7
643.0
454.3
295.4
186.2
106.8
49.7
0.0

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