

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: P636753

Luminaire Tested: **IFLD-M-SA4B-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636753
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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: 11243.3 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

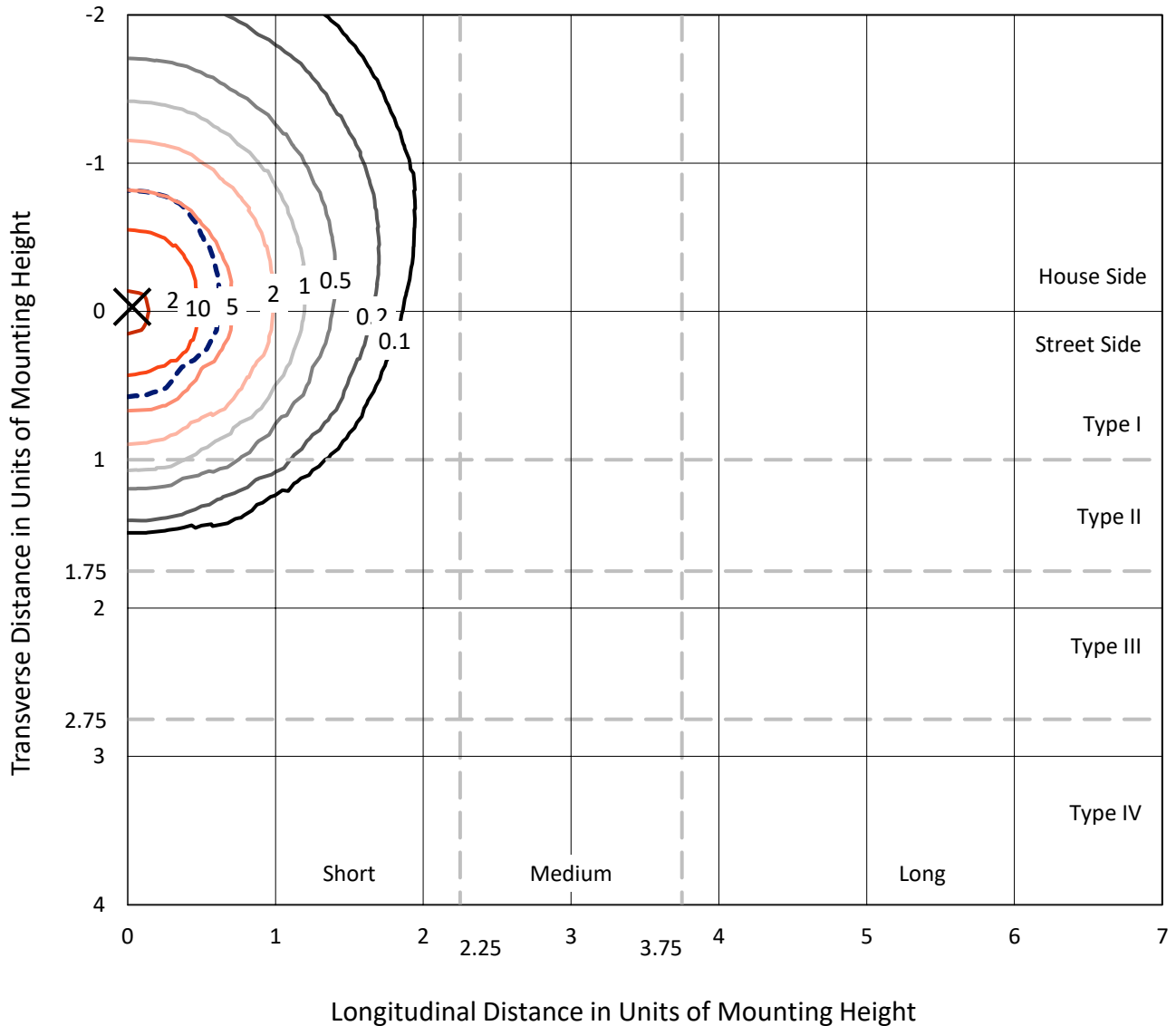
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

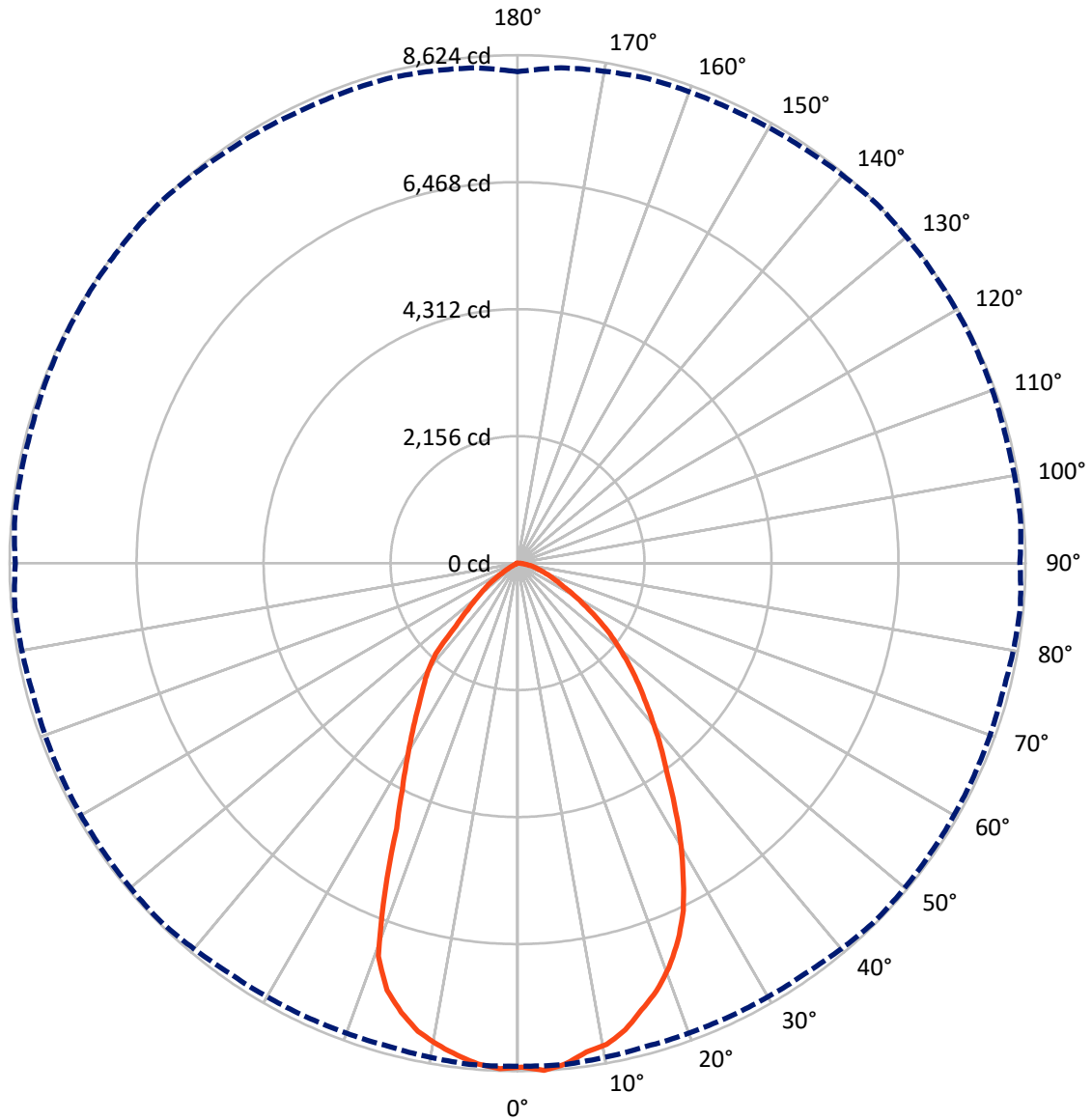
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.4 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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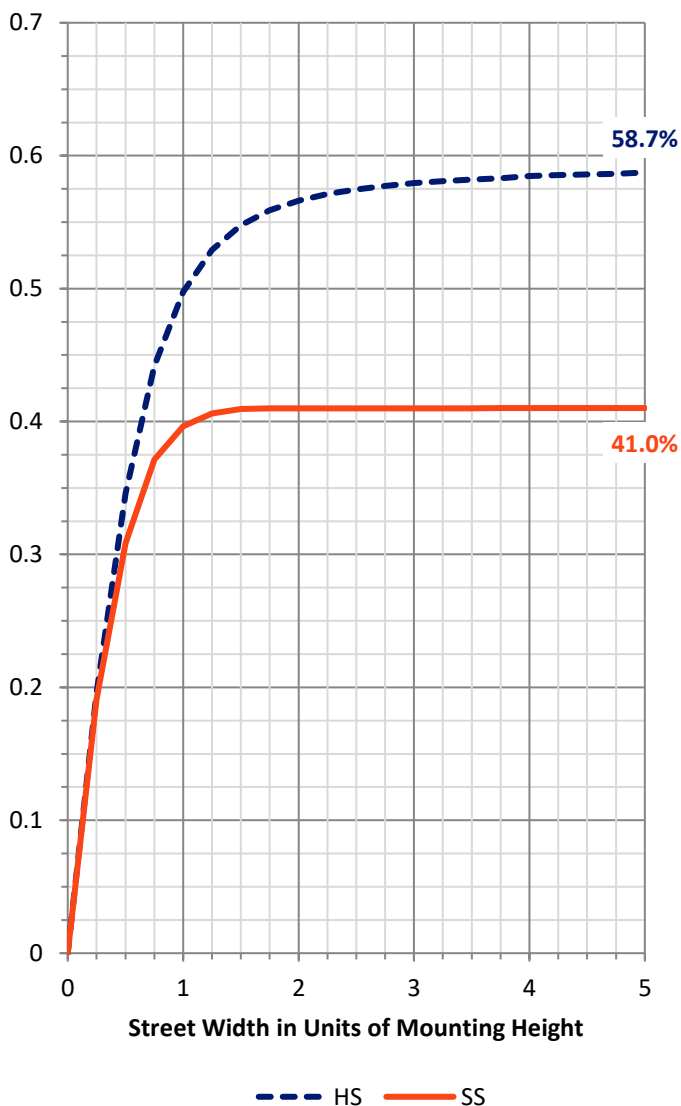
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6658.9	0.0	6658.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4584.5	0.0	4584.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	11243.3	0.0	11243.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.4	7.1
10°-20°	2151.8	19.1
20°-30°	2624.2	23.3
30°-40°	2395.9	21.3
40°-50°	1731.4	15.4
50°-60°	945.4	8.4
60°-70°	390.9	3.5
70°-80°	158.3	1.4
80°-90°	43.1	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°	11243.3	100.0
0°-180°	11243.3	100.0



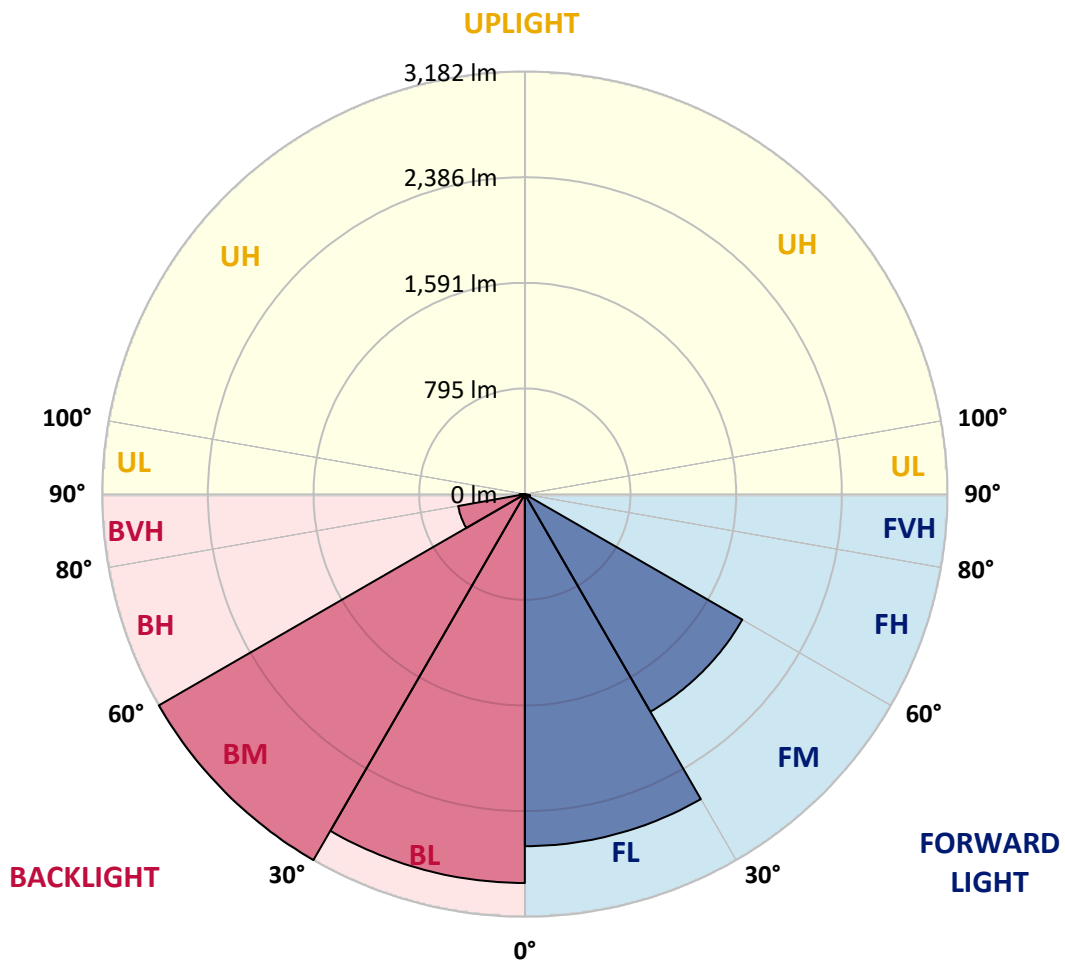
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2650.5	23.6			
FM (30°-60°)	1890.9	16.8			
FH (60°-80°)	39.6	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2927.9	26.0	B4/5000		
BM (30°-60°)	3181.8	28.3	B3/5000		
BH (60°-80°)	509.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	39.6	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°	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2
2.5°	8540.3	8551.4	8491.2	8497.6	8508.7	8589.4	8568.8	8549.8	8522.9	8568.8
5°	8529.2	8535.6	8472.2	8450.1	8459.6	8532.4	8465.9	8465.9	8459.6	8451.7
7.5°	8443.7	8446.9	8397.8	8358.2	8383.6	8416.8	8367.7	8391.5	8356.7	8383.6
10°	8315.5	8294.9	8236.3	8225.2	8253.7	8285.4	8252.2	8274.3	8242.7	8263.2
12.5°	8127.1	8095.4	8047.9	8033.7	8082.8	8125.5	8098.6	8085.9	8044.8	8095.4
15°	7400.3	7376.6	7484.3	7672.7	7842.1	7878.5	7850.0	7862.7	7777.2	7791.4
17.5°	6091.0	6046.6	6162.2	6608.7	7245.2	7580.8	7555.5	7473.2	7346.5	7375.0
20°	5535.2	5522.6	5509.9	5616.0	6060.9	7078.9	7113.8	6904.8	6724.3	6684.7
22.5°	5221.7	5217.0	5204.3	5228.1	5345.2	5999.1	6398.1	6205.0	6084.6	6073.5
25°	4935.1	4927.2	4889.2	4919.3	4919.3	4957.3	5468.7	5585.9	5479.8	5467.1
27.5°	4643.8	4629.6	4623.2	4637.5	4564.7	4308.2	4438.0	5009.6	4954.1	4957.3
30°	4328.7	4324.0	4306.6	4336.7	4111.8	3793.6	3711.3	4487.1	4498.2	4495.0
32.5°	3860.1	3880.7	3959.8	3993.1	3622.6	3359.8	3222.0	3882.3	4108.7	4103.9
35°	2804.0	2804.0	3062.1	3541.8	3174.5	2976.6	2902.2	3291.7	3723.9	3739.8
37.5°	2305.3	2313.2	2363.9	2582.4	2739.1	2669.4	2647.3	2770.8	3229.9	3255.3
40°	2074.1	2074.1	2074.1	1983.9	1979.1	2405.0	2392.4	2352.8	2789.8	2845.2
42.5°	1863.5	1868.3	1871.5	1643.5	1516.8	2078.9	2050.4	1990.2	2395.5	2460.4
45°	1646.6	1654.5	1664.0	1374.3	1318.9	1496.2	1735.3	1668.8	2006.0	2090.0
47.5°	1005.4	1018.1	1233.4	1165.3	1171.6	1154.2	1415.5	1404.4	1645.0	1763.8
50°	679.2	684.0	704.6	739.4	1005.4	907.2	1002.2	1162.1	1249.2	1429.7
52.5°	570.0	577.9	527.2	479.7	660.2	709.3	699.8	862.9	897.7	1121.0
55°	400.6	425.9	402.2	397.4	375.2	551.0	530.4	663.4	685.6	851.8
57.5°	41.2	47.5	82.3	296.1	245.4	311.9	378.4	486.1	508.2	628.6
60°	3.2	3.2	7.9	41.2	178.9	186.8	261.2	299.2	342.0	438.6
62.5°	0.0	1.6	3.2	6.3	28.5	99.7	131.4	156.7	205.8	283.4
65°	0.0	0.0	1.6	4.7	6.3	38.0	50.7	82.3	112.4	175.7
67.5°	0.0	0.0	1.6	3.2	4.7	9.5	17.4	30.1	60.2	99.7
70°	0.0	0.0	1.6	3.2	4.7	7.9	12.7	19.0	26.9	53.8
72.5°	0.0	0.0	1.6	1.6	3.2	7.9	9.5	12.7	19.0	26.9
75°	0.0	0.0	1.6	1.6	4.7	9.5	7.9	9.5	12.7	17.4
77.5°	0.0	0.0	1.6	3.2	4.7	9.5	7.9	9.5	9.5	11.1
80°	0.0	0.0	1.6	3.2	6.3	11.1	9.5	9.5	7.9	7.9
82.5°	0.0	0.0	1.6	4.7	6.3	14.2	14.2	12.7	6.3	4.7
85°	0.0	0.0	3.2	6.3	9.5	15.8	15.8	12.7	4.7	3.2
87.5°	0.0	0.0	3.2	4.7	7.9	11.1	15.8	12.7	4.7	1.6
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°
8556.2	0°	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2	8556.2
8529.2	2.5°	8572.0	8562.5	8594.2	8606.8	8624.2	8557.7	8516.6	8518.2	8442.2
8432.7	5°	8483.3	8484.9	8526.1	8522.9	8540.3	8503.9	8488.1	8461.2	8394.7
8310.7	7.5°	8370.9	8356.7	8396.2	8426.3	8382.0	8407.3	8370.9	8383.6	8344.0
8203.1	10°	8283.8	8250.6	8287.0	8307.6	8309.2	8283.8	8249.0	8215.7	8201.5
8035.3	12.5°	8090.7	8047.9	8109.7	8138.2	8133.4	8084.3	8044.8	8052.7	8006.8
7740.8	15°	7824.7	7826.3	7870.6	7897.5	7872.2	7861.1	7864.3	7845.3	7805.7
7333.8	17.5°	7417.8	7441.5	7558.7	7623.6	7637.8	7615.7	7604.6	7582.4	7542.8
6684.7	20°	6740.1	6882.6	7091.6	7292.7	7332.3	7325.9	7286.4	7276.9	7254.7
6041.9	22.5°	6144.8	6250.9	6493.1	6806.6	6968.1	6983.9	6936.4	6922.2	6898.4
5467.1	25°	5528.9	5642.9	5861.4	6201.8	6535.9	6603.9	6596.0	6553.3	6527.9
4957.3	27.5°	5009.6	5123.6	5321.5	5628.6	5986.5	6205.0	6225.5	6157.5	6155.9
4502.9	30°	4540.9	4697.7	4848.1	5098.2	5445.0	5772.7	5807.5	5760.0	5764.8
4086.5	32.5°	4173.6	4303.4	4431.7	4599.5	4887.6	5269.2	5405.4	5361.1	5343.6
3739.8	35°	3798.3	3887.0	4018.4	4172.0	4368.3	4746.7	4982.6	4949.4	4932.0
3271.1	37.5°	3370.8	3522.8	3617.8	3790.4	3944.0	4244.8	4577.3	4572.6	4536.2
2872.1	40°	2932.3	3092.2	3236.3	3410.4	3529.2	3768.3	4137.2	4135.6	4140.3
2458.9	42.5°	2534.9	2682.1	2856.3	3046.3	3160.3	3334.4	3730.3	3752.4	3779.3
2118.5	45°	2175.5	2308.5	2469.9	2701.1	2838.9	2938.6	3290.1	3391.4	3389.8
1814.5	47.5°	1852.5	1977.5	2113.7	2338.5	2514.3	2604.5	2895.9	3039.9	3030.4
1488.3	50°	1554.8	1665.6	1808.1	1971.2	2207.1	2286.3	2503.2	2693.2	2678.9
1185.9	52.5°	1250.8	1404.4	1524.7	1673.5	1922.1	1999.7	2167.5	2352.8	2341.7
889.8	55°	975.3	1124.1	1269.8	1398.1	1607.1	1722.6	1843.0	2033.0	2029.8
696.7	57.5°	737.8	900.9	1038.6	1160.6	1326.8	1469.3	1565.9	1738.5	1760.6
476.6	60°	546.2	671.3	820.1	956.3	1087.7	1235.0	1299.9	1469.3	1478.8
326.2	62.5°	372.1	509.8	655.5	779.0	877.1	1029.1	1087.7	1227.1	1244.5
209.0	65°	258.1	346.7	513.0	601.7	722.0	851.8	910.4	1021.2	1056.1
120.3	67.5°	171.0	247.0	400.6	481.3	600.1	688.7	763.2	853.4	891.4
76.0	70°	93.4	182.1	286.6	380.0	482.9	568.4	641.2	714.1	747.3
34.8	72.5°	63.3	121.9	199.5	300.8	389.5	473.4	538.3	592.2	593.7
20.6	75°	31.7	82.3	152.0	232.7	304.0	386.3	444.9	476.6	438.6
12.7	77.5°	19.0	60.2	123.5	186.8	247.0	311.9	345.2	362.6	300.8
9.5	80°	11.1	42.7	96.6	148.8	171.0	229.6	261.2	266.0	201.1
6.3	82.5°	7.9	31.7	76.0	109.2	104.5	161.5	196.3	190.0	128.2
4.7	85°	4.7	22.2	47.5	68.1	63.3	106.1	114.0	117.2	74.4
3.2	87.5°	3.2	12.7	25.3	36.4	30.1	45.9	45.9	55.4	36.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8556.2
8344.0
8378.8
8277.5
8138.2
7967.2
7766.1
7525.4
7204.0
6892.1
6501.0
6152.7
5741.0
5345.2
4908.2
4566.2
4140.3
3765.1
3393.0
3033.6
2691.6
2365.5
2037.7
1751.1
1493.1
1247.6
1048.1
886.6
734.7
579.5
410.1
289.7
188.4
118.7
68.1
31.7
0.0

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