

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: P636714

Luminaire Tested: **IFLD-S-SA3B-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636714
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8286.2 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

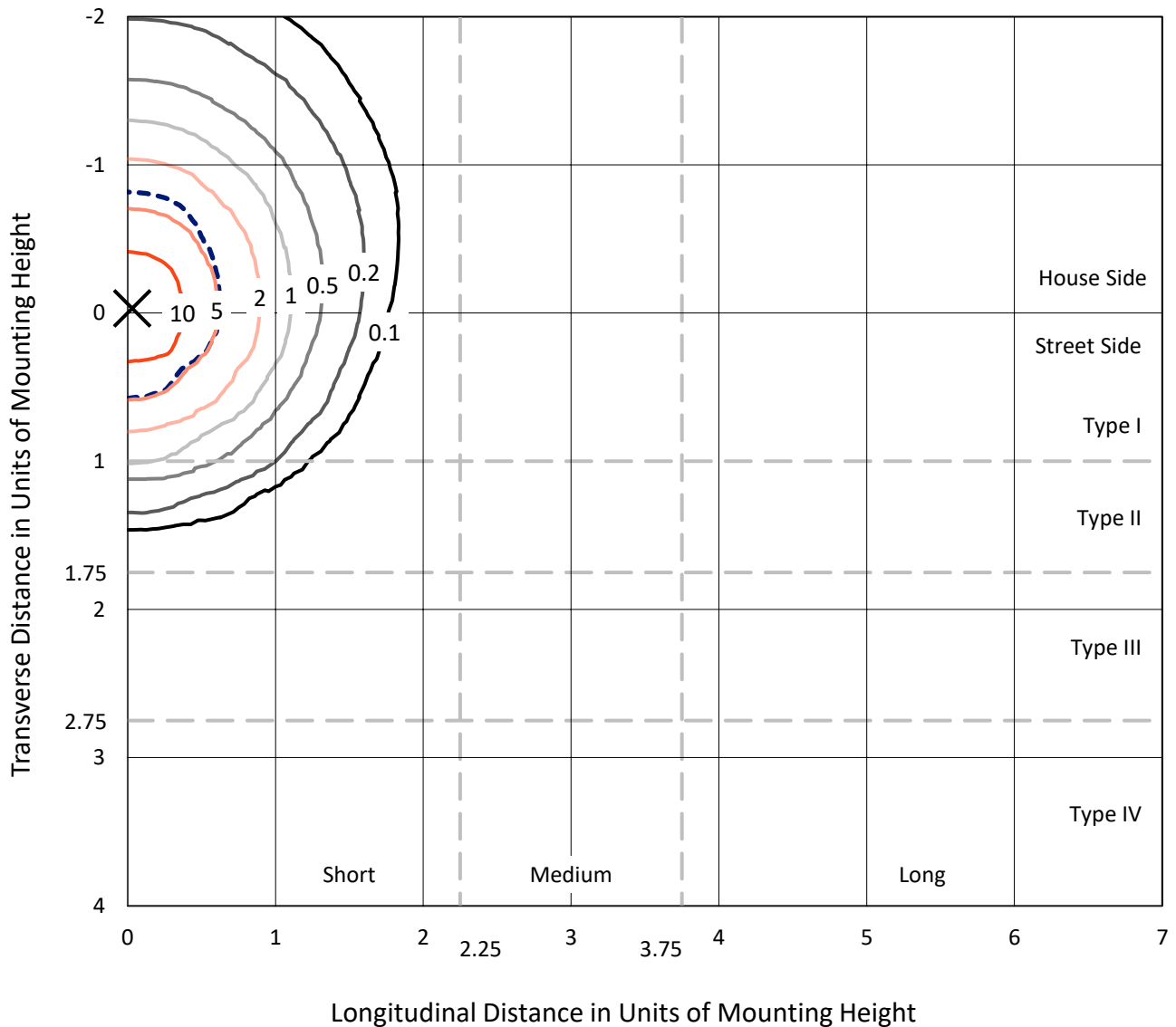
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

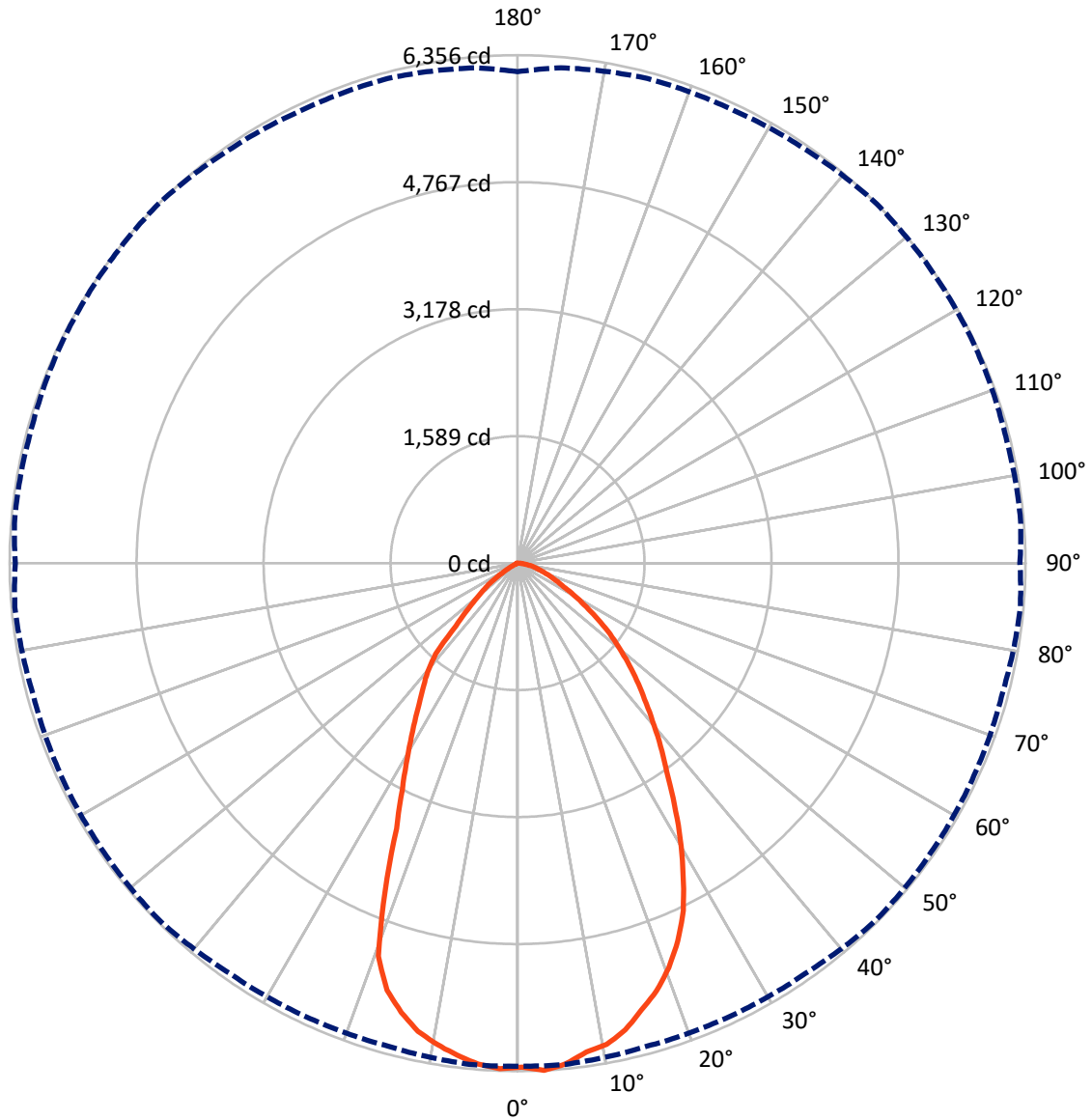
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.8 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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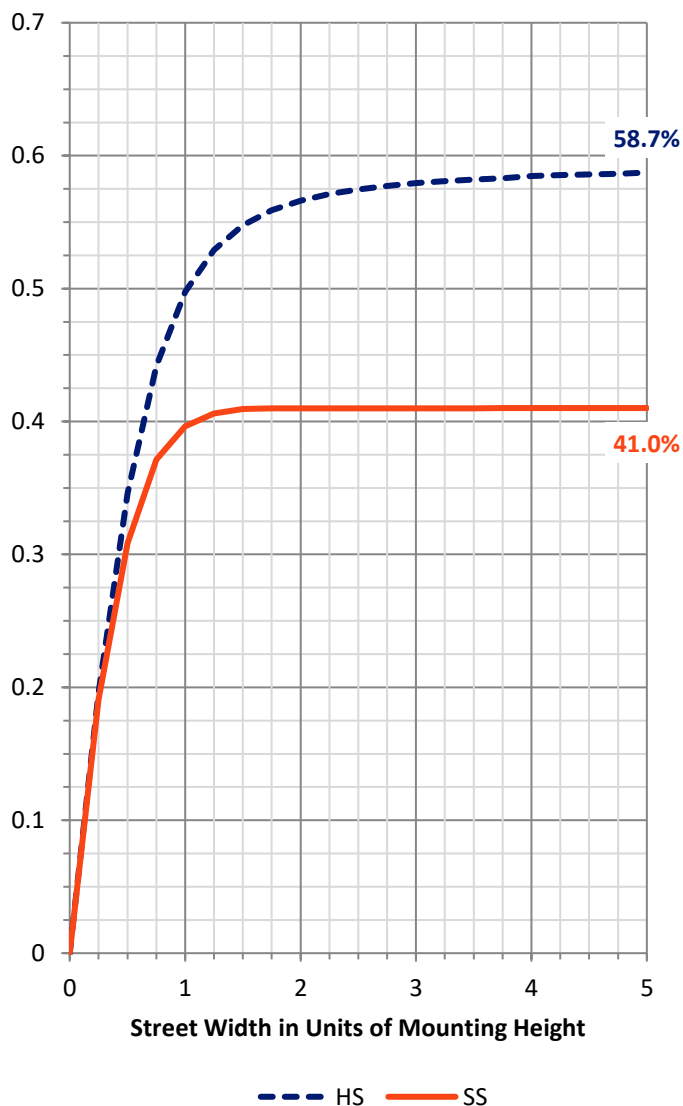
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4907.5	0.0	4907.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3378.7	0.0	3378.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	8286.2	0.0	8286.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.4	7.1
10°-20°	1585.8	19.1
20°-30°	1934.0	23.3
30°-40°	1765.7	21.3
40°-50°	1276.1	15.4
50°-60°	696.7	8.4
60°-70°	288.1	3.5
70°-80°	116.7	1.4
80°-90°	31.7	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°	8286.2	100.0
0°-180°	8286.2	100.0



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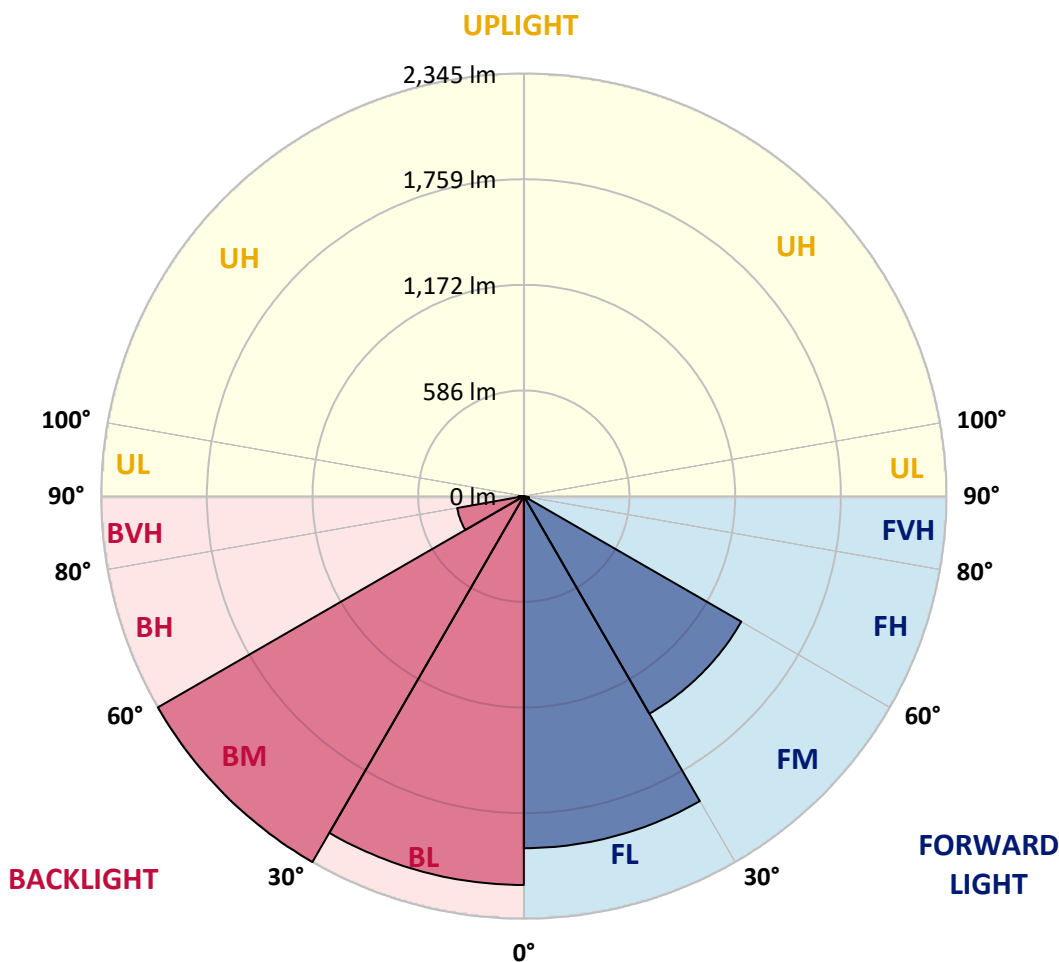
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.4	23.6			
FM (30°-60°)	1393.6	16.8			
FH (60°-80°)	29.2	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	2157.9	26.0	B3/2500		
BM (30°-60°)	2344.9	28.3	B2/2500		
BH (60°-80°)	375.5	4.5	B1/500		G1/500
BVH (80°-90°)	29.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8
2.5°	6294.1	6302.3	6257.9	6262.6	6270.8	6330.3	6315.1	6301.1	6281.3	6315.1
5°	6286.0	6290.6	6243.9	6227.6	6234.6	6288.3	6239.3	6239.3	6234.6	6228.8
7.5°	6222.9	6225.3	6189.1	6159.9	6178.6	6203.1	6166.9	6184.4	6158.8	6178.6
10°	6128.4	6113.3	6070.1	6061.9	6082.9	6106.3	6081.8	6098.1	6074.8	6089.9
12.5°	5989.6	5966.2	5931.2	5920.7	5956.9	5988.4	5968.6	5959.2	5928.9	5966.2
15°	5454.0	5436.5	5515.8	5654.7	5779.5	5806.4	5785.4	5794.7	5731.7	5742.2
17.5°	4489.0	4456.3	4541.5	4870.5	5339.6	5587.0	5568.3	5507.6	5414.3	5435.3
20°	4079.4	4070.1	4060.7	4138.9	4466.8	5217.1	5242.8	5088.7	4955.7	4926.5
22.5°	3848.4	3844.9	3835.5	3853.0	3939.4	4421.3	4715.3	4573.0	4484.3	4476.1
25°	3637.1	3631.3	3603.3	3625.5	3625.5	3653.5	4030.4	4116.7	4038.6	4029.2
27.5°	3422.4	3411.9	3407.3	3417.8	3364.1	3175.1	3270.8	3692.0	3651.2	3653.5
30°	3190.2	3186.7	3173.9	3196.1	3030.4	2795.8	2735.2	3306.9	3315.1	3312.8
32.5°	2844.8	2860.0	2918.4	2942.9	2669.8	2476.1	2374.6	2861.2	3028.0	3024.5
35°	2066.5	2066.5	2256.7	2610.3	2339.6	2193.7	2138.9	2425.9	2744.5	2756.2
37.5°	1699.0	1704.8	1742.1	1903.2	2018.7	1967.4	1951.0	2042.0	2380.4	2399.1
40°	1528.6	1528.6	1528.6	1462.1	1458.6	1772.5	1763.1	1734.0	2056.0	2096.9
42.5°	1373.4	1376.9	1379.2	1211.2	1117.9	1532.1	1511.1	1466.8	1765.5	1813.3
45°	1213.5	1219.4	1226.4	1012.8	972.0	1102.7	1278.9	1229.9	1478.4	1540.3
47.5°	741.0	750.3	909.0	858.8	863.5	850.7	1043.2	1035.0	1212.4	1299.9
50°	500.6	504.1	519.3	544.9	741.0	668.6	738.6	856.5	920.7	1053.7
52.5°	420.1	425.9	388.6	353.6	486.6	522.8	515.8	635.9	661.6	826.1
55°	295.2	313.9	296.4	292.9	276.5	406.1	390.9	488.9	505.3	627.8
57.5°	30.3	35.0	60.7	218.2	180.9	229.9	278.9	358.2	374.6	463.2
60°	2.3	2.3	5.8	30.3	131.9	137.7	192.5	220.5	252.0	323.2
62.5°	0.0	1.2	2.3	4.7	21.0	73.5	96.9	115.5	151.7	208.9
65°	0.0	0.0	1.2	3.5	4.7	28.0	37.3	60.7	82.8	129.5
67.5°	0.0	0.0	1.2	2.3	3.5	7.0	12.8	22.2	44.3	73.5
70°	0.0	0.0	1.2	2.3	3.5	5.8	9.3	14.0	19.8	39.7
72.5°	0.0	0.0	1.2	1.2	2.3	5.8	7.0	9.3	14.0	19.8
75°	0.0	0.0	1.2	1.2	3.5	7.0	5.8	7.0	9.3	12.8
77.5°	0.0	0.0	1.2	2.3	3.5	7.0	5.8	7.0	7.0	8.2
80°	0.0	0.0	1.2	2.3	4.7	8.2	7.0	7.0	5.8	5.8
82.5°	0.0	0.0	1.2	3.5	4.7	10.5	10.5	9.3	4.7	3.5
85°	0.0	0.0	2.3	4.7	7.0	11.7	11.7	9.3	3.5	2.3
87.5°	0.0	0.0	2.3	3.5	5.8	8.2	11.7	9.3	3.5	1.2
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°
6305.8	0°	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8	6305.8
6286.0	2.5°	6317.5	6310.5	6333.8	6343.1	6356.0	6307.0	6276.6	6277.8	6221.8
6214.8	5°	6252.1	6253.3	6283.6	6281.3	6294.1	6267.3	6255.6	6235.8	6186.8
6124.9	7.5°	6169.3	6158.8	6187.9	6210.1	6177.4	6196.1	6169.3	6178.6	6149.4
6045.6	10°	6105.1	6080.6	6107.4	6122.6	6123.8	6105.1	6079.4	6054.9	6044.4
5921.9	12.5°	5962.7	5931.2	5976.7	5997.7	5994.2	5958.1	5928.9	5934.7	5900.9
5704.9	15°	5766.7	5767.9	5800.5	5820.4	5801.7	5793.5	5795.9	5781.9	5752.7
5405.0	17.5°	5466.8	5484.3	5570.7	5618.5	5629.0	5612.7	5604.5	5588.2	5559.0
4926.5	20°	4967.4	5072.4	5226.4	5374.6	5403.8	5399.1	5370.0	5363.0	5346.6
4452.8	22.5°	4528.6	4606.8	4785.4	5016.4	5135.4	5147.1	5112.1	5101.6	5084.1
4029.2	25°	4074.7	4158.7	4319.8	4570.6	4816.9	4867.0	4861.2	4829.7	4811.0
3653.5	27.5°	3692.0	3776.0	3921.9	4148.2	4412.0	4573.0	4588.2	4538.0	4536.8
3318.6	30°	3346.6	3462.1	3573.0	3757.3	4012.9	4254.4	4280.1	4245.1	4248.6
3011.7	32.5°	3075.9	3171.6	3266.1	3389.8	3602.1	3883.4	3983.7	3951.0	3938.2
2756.2	35°	2799.3	2864.7	2961.5	3074.7	3219.4	3498.3	3672.2	3647.7	3634.8
2410.8	37.5°	2484.3	2596.3	2666.3	2793.5	2906.7	3128.4	3373.4	3369.9	3343.1
2116.7	40°	2161.1	2278.9	2385.1	2513.4	2601.0	2777.2	3049.0	3047.9	3051.4
1812.2	42.5°	1868.2	1976.7	2105.0	2245.1	2329.1	2457.4	2749.2	2765.5	2785.3
1561.3	45°	1603.3	1701.3	1820.3	1990.7	2092.2	2165.7	2424.8	2499.4	2498.3
1337.2	47.5°	1365.2	1457.4	1557.8	1723.5	1853.0	1919.5	2134.2	2240.4	2233.4
1096.9	50°	1145.9	1227.6	1332.6	1452.8	1626.6	1685.0	1844.8	1984.9	1974.4
874.0	52.5°	921.8	1035.0	1123.7	1233.4	1416.6	1473.8	1597.5	1734.0	1725.8
655.8	55°	718.8	828.5	935.8	1030.4	1184.4	1269.6	1358.2	1498.3	1495.9
513.4	57.5°	543.8	664.0	765.5	855.3	977.8	1082.9	1154.0	1281.2	1297.6
351.2	60°	402.6	494.8	604.4	704.8	801.6	910.2	958.0	1082.9	1089.9
240.4	62.5°	274.2	375.7	483.1	574.1	646.4	758.5	801.6	904.3	917.2
154.0	65°	190.2	255.5	378.1	443.4	532.1	627.8	671.0	752.6	778.3
88.7	67.5°	126.0	182.0	295.2	354.7	442.2	507.6	562.4	628.9	657.0
56.0	70°	68.8	134.2	211.2	280.0	355.9	418.9	472.6	526.3	550.8
25.7	72.5°	46.7	89.8	147.0	221.7	287.1	348.9	396.7	436.4	437.6
15.2	75°	23.3	60.7	112.0	171.5	224.0	284.7	327.9	351.2	323.2
9.3	77.5°	14.0	44.3	91.0	137.7	182.0	229.9	254.4	267.2	221.7
7.0	80°	8.2	31.5	71.2	109.7	126.0	169.2	192.5	196.0	148.2
4.7	82.5°	5.8	23.3	56.0	80.5	77.0	119.0	144.7	140.0	94.5
3.5	85°	3.5	16.3	35.0	50.2	46.7	78.2	84.0	86.3	54.8
2.3	87.5°	2.3	9.3	18.7	26.8	22.2	33.8	33.8	40.8	26.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6305.8
6149.4
6175.1
6100.4
5997.7
5871.7
5723.5
5546.2
5309.3
5079.4
4791.2
4534.5
4231.1
3939.4
3617.3
3365.3
3051.4
2774.8
2500.6
2235.7
1983.7
1743.3
1501.8
1290.6
1100.4
919.5
772.5
653.4
541.4
427.1
302.2
213.5
138.9
87.5
50.2
23.3
0.0

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