

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: P477415

Luminaire Tested: **IFLD-S-SA3A-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477415
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

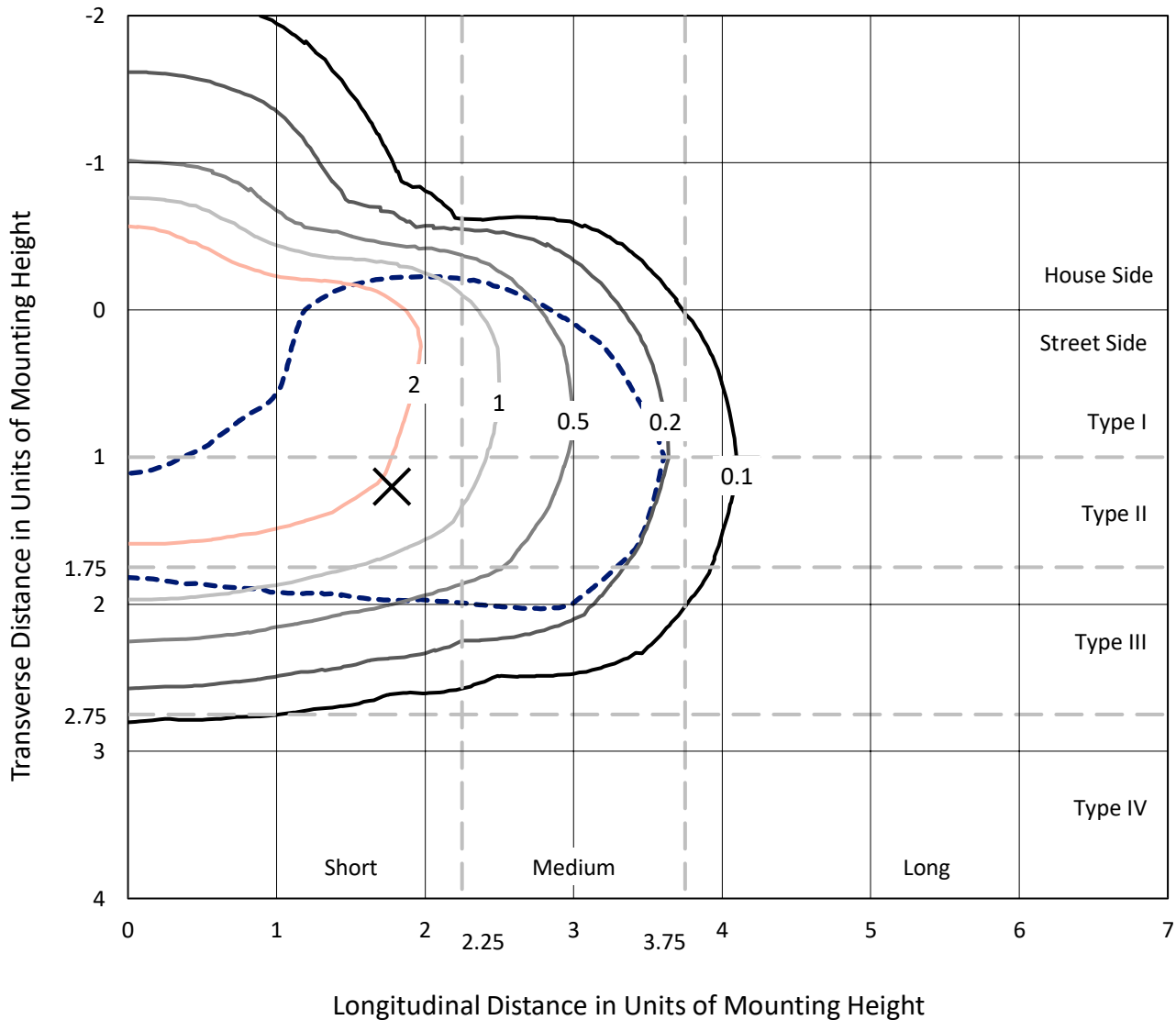
Lumens per Lamp: N/A
Luminaire Lumens: 14334.2 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

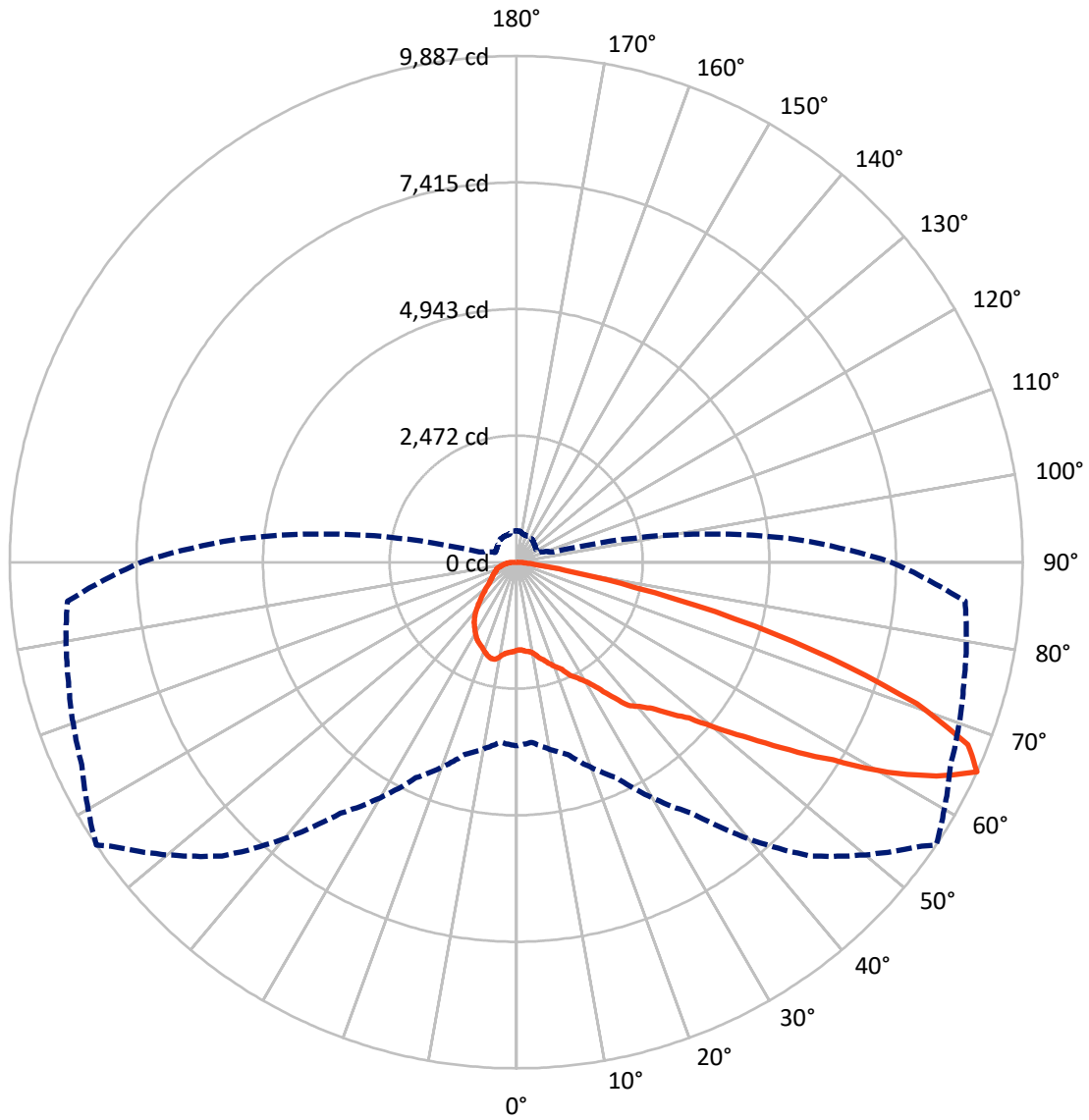
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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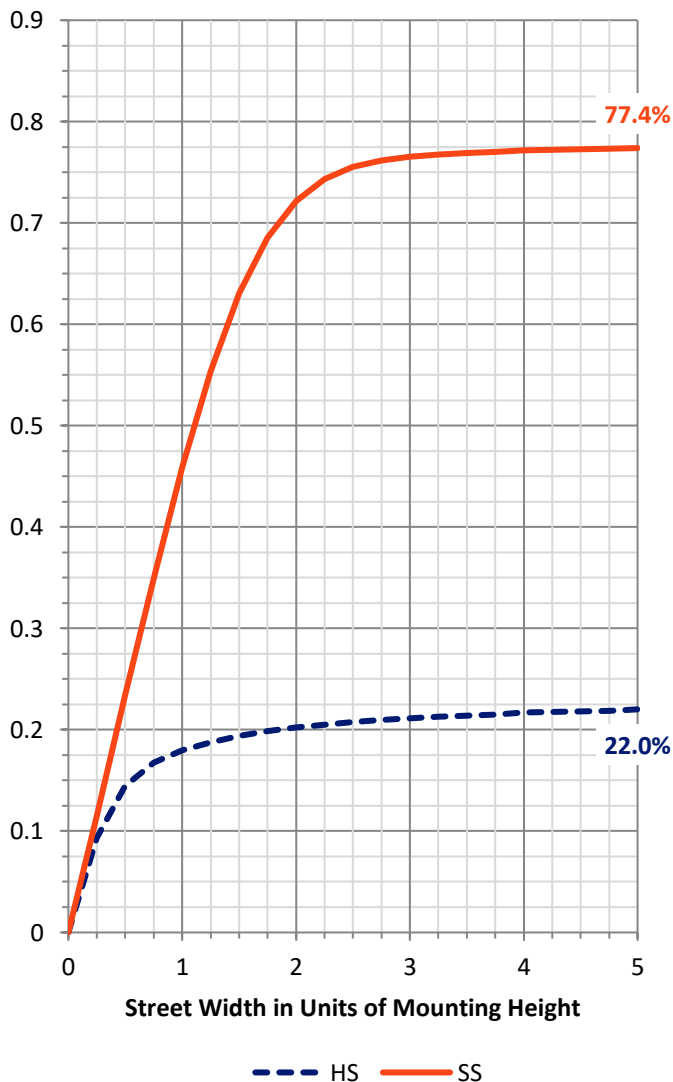
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3214.7	0.0	3214.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	11119.5	0.0	11119.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	14334.2	0.0	14334.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	1.2
10°-20°	553.6	3.9
20°-30°	985.8	6.9
30°-40°	1476.1	10.3
40°-50°	2187.1	15.3
50°-60°	3370.0	23.5
60°-70°	3815.3	26.6
70°-80°	1583.4	11.0
80°-90°	192.4	1.3
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°	14334.2	100.0
0°-180°	14334.2	100.0

Coefficient of Utilization

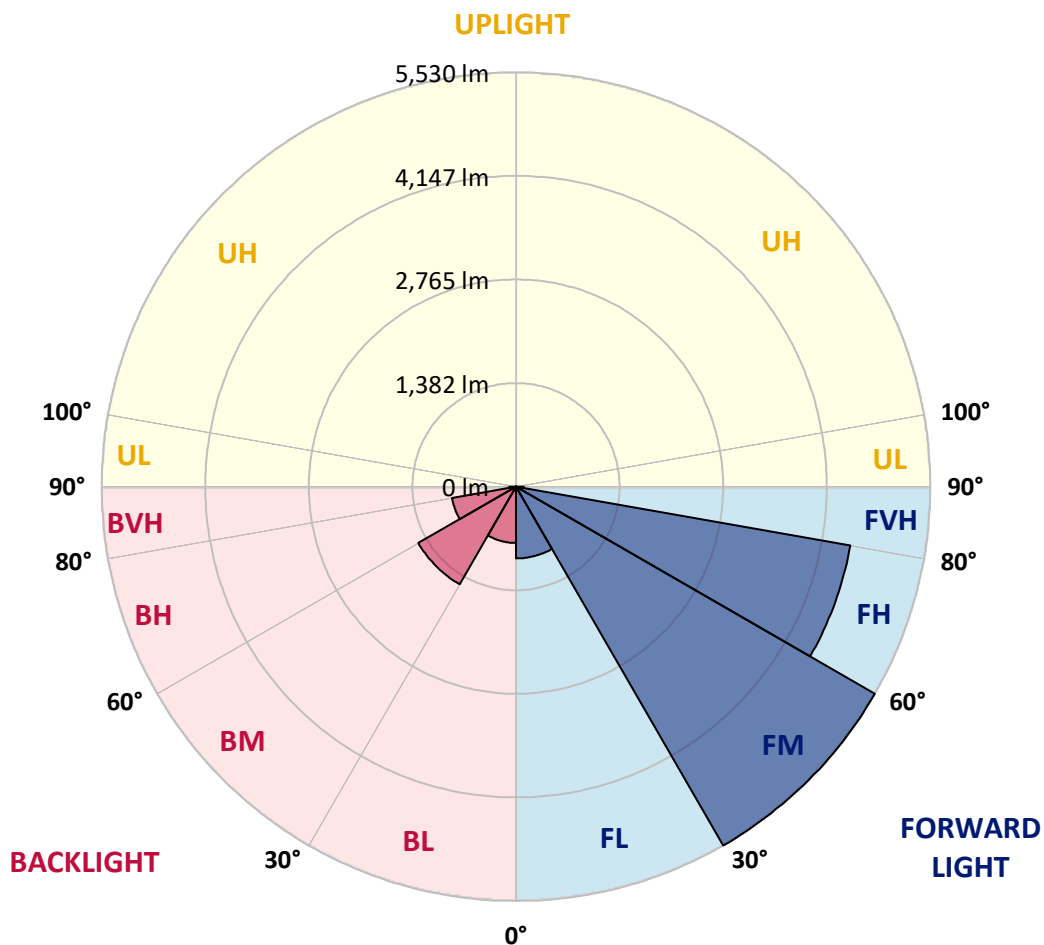


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.9	6.7			
FM (30°-60°)	5529.5	38.6			
FH (60°-80°)	4530.6	31.6			G2/5000
FVH (80°-90°)	101.5	0.7			G2/225
BL (0°-30°)	751.9	5.2	B2/1000		
BM (30°-60°)	1503.8	10.5	B2/2500		
BH (60°-80°)	868.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	90.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5
2.5°	1675.5	1684.5	1678.5	1696.5	1711.5	1711.5	1723.5	1714.5	1726.5	1743.0
5°	1731.0	1695.0	1714.5	1723.5	1719.0	1726.5	1714.5	1744.5	1725.0	1756.5
7.5°	1744.5	1758.0	1774.5	1759.5	1773.0	1765.5	1767.0	1762.5	1752.0	1777.5
10°	1843.5	1824.0	1861.5	1839.0	1836.0	1833.0	1827.0	1804.5	1830.0	1831.5
12.5°	1957.5	1939.5	1938.0	1920.0	1944.0	1900.5	1909.5	1897.5	1902.0	1908.0
15°	2040.0	2032.5	2067.0	2046.0	2014.5	1995.0	2016.0	1983.0	1999.5	1996.5
17.5°	2203.5	2202.0	2176.5	2142.0	2124.0	2095.5	2091.0	2077.5	2089.5	2083.5
20°	2317.5	2334.0	2338.5	2298.0	2229.0	2197.5	2190.0	2179.5	2193.0	2188.5
22.5°	2491.5	2466.0	2485.5	2415.0	2389.5	2314.5	2287.5	2272.5	2337.0	2320.5
25°	2602.5	2629.5	2610.0	2586.0	2529.0	2436.0	2416.5	2449.5	2475.0	2457.0
27.5°	2853.0	2826.0	2808.0	2736.0	2698.5	2601.0	2578.5	2566.5	2572.5	2583.0
30°	3043.5	3058.5	3018.0	2967.0	2872.5	2773.5	2721.0	2710.5	2689.5	2671.5
32.5°	3315.0	3292.5	3268.5	3235.5	3154.5	3024.0	2973.0	2934.0	2871.0	2787.0
35°	3445.5	3510.0	3492.0	3403.5	3342.0	3292.5	3277.5	3217.5	3165.0	3033.0
37.5°	3663.0	3690.0	3664.5	3636.0	3607.5	3555.0	3537.0	3553.5	3450.0	3232.5
40°	3804.0	3861.0	3913.5	3834.0	3828.0	3838.5	3727.5	3708.0	3495.0	3381.0
42.5°	4092.0	4116.0	4126.5	4123.5	4158.0	4158.0	3946.5	3904.5	3753.0	3660.0
45°	4473.0	4492.5	4530.0	4557.0	4518.0	4537.5	4236.0	4219.5	4084.5	4066.5
47.5°	4803.1	4849.6	4933.6	5013.1	5064.1	4998.1	4668.0	4551.0	4516.5	4624.5
50°	5091.1	5035.6	5232.1	5313.1	5536.6	5646.1	5145.1	5098.6	5043.1	5250.1
52.5°	5119.6	5194.6	5472.1	5634.1	6094.6	6297.1	5730.1	5710.6	5643.1	5881.6
55°	5323.6	5314.6	5593.6	5944.6	6492.1	6832.6	6492.1	6480.1	6333.1	6559.6
57.5°	5289.1	5380.6	5601.1	6091.6	6850.6	7407.1	7375.6	7293.1	7087.6	7272.1
60°	5172.1	5196.1	5464.6	6087.1	7059.1	7996.6	8329.6	8346.1	7926.1	8073.1
62.5°	4509.0	4564.5	4905.1	5608.6	6910.6	8403.1	9261.1	9202.6	8866.6	8698.6
65°	3586.5	3531.0	3885.0	4645.5	5986.6	8115.1	9669.1	9886.6	9358.6	9051.1
67.5°	2199.0	2185.5	2526.0	3196.5	4479.0	6906.1	9343.6	9513.1	9222.1	8976.1
70°	1132.5	1098.0	1311.0	1783.5	2815.5	5067.1	8131.6	8298.1	8575.6	8050.6
72.5°	528.0	520.5	634.5	877.5	1434.0	2979.0	6297.1	6417.1	7002.1	6787.6
75°	310.5	315.0	379.5	459.0	699.0	1404.0	4179.0	4411.5	5046.1	4891.6
77.5°	232.5	232.5	270.0	319.5	408.0	543.0	2062.5	2370.0	2950.5	2653.5
80°	171.0	174.0	207.0	240.0	283.5	280.5	819.0	960.0	1353.0	1156.5
82.5°	133.5	138.0	160.5	178.5	199.5	169.5	336.0	361.5	556.5	442.5
85°	93.0	96.0	126.0	121.5	121.5	94.5	139.5	147.0	220.5	210.0
87.5°	22.5	25.5	61.5	67.5	51.0	28.5	43.5	49.5	79.5	91.5
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1720.5	0°	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5	1720.5
1750.5	2.5°	1728.0	1734.0	1759.5	1746.0	1753.5	1722.0	1747.5	1726.5	1744.5	1735.5
1764.0	5°	1776.0	1762.5	1777.5	1767.0	1767.0	1779.0	1797.0	1783.5	1810.5	1798.5
1774.5	7.5°	1795.5	1797.0	1806.0	1807.5	1800.0	1837.5	1839.0	1834.5	1860.0	1854.0
1846.5	10°	1843.5	1845.0	1861.5	1870.5	1863.0	1876.5	1861.5	1849.5	1848.0	1842.0
1903.5	12.5°	1920.0	1935.0	1932.0	1939.5	1941.0	1884.0	1849.5	1791.0	1783.5	1791.0
1987.5	15°	1990.5	1984.5	1987.5	2002.5	1939.5	1848.0	1786.5	1737.0	1740.0	1741.5
2097.0	17.5°	2074.5	2079.0	2083.5	2014.5	1899.0	1791.0	1737.0	1737.0	1722.0	1728.0
2173.5	20°	2170.5	2152.5	2113.5	2016.0	1828.5	1725.0	1708.5	1708.5	1690.5	1678.5
2256.0	22.5°	2245.5	2209.5	2151.0	1969.5	1765.5	1699.5	1659.0	1630.5	1609.5	1585.5
2347.5	25°	2293.5	2274.0	2160.0	1921.5	1719.0	1632.0	1572.0	1528.5	1501.5	1470.0
2419.5	27.5°	2367.0	2329.5	2185.5	1866.0	1668.0	1564.5	1471.5	1404.0	1353.0	1320.0
2529.0	30°	2466.0	2412.0	2167.5	1786.5	1590.0	1447.5	1338.0	1251.0	1192.5	1165.5
2632.5	32.5°	2547.0	2476.5	2152.5	1714.5	1503.0	1329.0	1183.5	1095.0	1062.0	1027.5
2806.5	35°	2701.5	2562.0	2142.0	1674.0	1425.0	1210.5	1057.5	981.0	939.0	888.0
2910.0	37.5°	2820.0	2710.5	2116.5	1590.0	1324.5	1095.0	961.5	892.5	829.5	775.5
3150.0	40°	3006.0	2917.5	2118.0	1471.5	1206.0	996.0	886.5	814.5	735.0	688.5
3505.5	42.5°	3355.5	3121.5	2127.0	1377.0	1072.5	915.0	819.0	733.5	654.0	615.0
3910.5	45°	3784.5	3402.0	2071.5	1291.5	936.0	838.5	738.0	652.5	601.5	573.0
4461.0	47.5°	4278.0	3676.5	1996.5	1131.0	822.0	757.5	663.0	613.5	576.0	559.5
5170.6	50°	4830.1	4069.5	1975.5	984.0	733.5	688.5	627.0	589.5	564.0	544.5
5970.1	52.5°	5541.1	4527.0	1933.5	832.5	657.0	633.0	613.5	588.0	565.5	549.0
6715.6	55°	6220.6	5034.1	1888.5	708.0	603.0	606.0	616.5	594.0	574.5	549.0
7551.1	57.5°	6985.6	5551.6	1722.0	616.5	562.5	592.5	613.5	588.0	568.5	549.0
8406.1	60°	7458.1	5842.6	1396.5	537.0	526.5	567.0	595.5	568.5	547.5	555.0
8799.1	62.5°	7650.1	5689.6	1053.0	487.5	501.0	532.5	567.0	556.5	541.5	570.0
8794.6	65°	7323.1	5337.1	753.0	445.5	466.5	498.0	541.5	553.5	558.0	613.5
8077.6	67.5°	6516.1	4647.0	553.5	411.0	430.5	477.0	559.5	579.0	576.0	645.0
6778.6	70°	5214.1	3634.5	432.0	382.5	417.0	493.5	585.0	585.0	564.0	645.0
5170.6	72.5°	3793.5	2562.0	372.0	349.5	382.5	453.0	582.0	580.5	553.5	589.5
3292.5	75°	2296.5	1491.0	328.5	316.5	328.5	388.5	556.5	547.5	510.0	507.0
1584.0	77.5°	1144.5	750.0	268.5	280.5	286.5	325.5	489.0	502.5	451.5	439.5
625.5	80°	483.0	327.0	223.5	241.5	241.5	274.5	406.5	415.5	375.0	352.5
247.5	82.5°	220.5	187.5	190.5	210.0	196.5	213.0	322.5	333.0	304.5	267.0
105.0	85°	93.0	106.5	145.5	165.0	145.5	138.0	222.0	234.0	198.0	165.0
45.0	87.5°	42.0	58.5	91.5	120.0	73.5	64.5	118.5	123.0	99.0	73.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



180°

1720.5
1719.0
1782.0
1845.0
1842.0
1794.0
1762.5
1729.5
1660.5
1572.0
1476.0
1335.0
1180.5
1026.0
883.5
777.0
693.0
618.0
579.0
556.5
547.5
547.5
547.5
547.5
549.0
562.5
613.5
649.5
631.5
568.5
501.0
432.0
345.0
261.0
166.5
69.0
0.0

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