

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: P477279

Luminaire Tested: **IFLD-M-SA4A-727-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477279
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

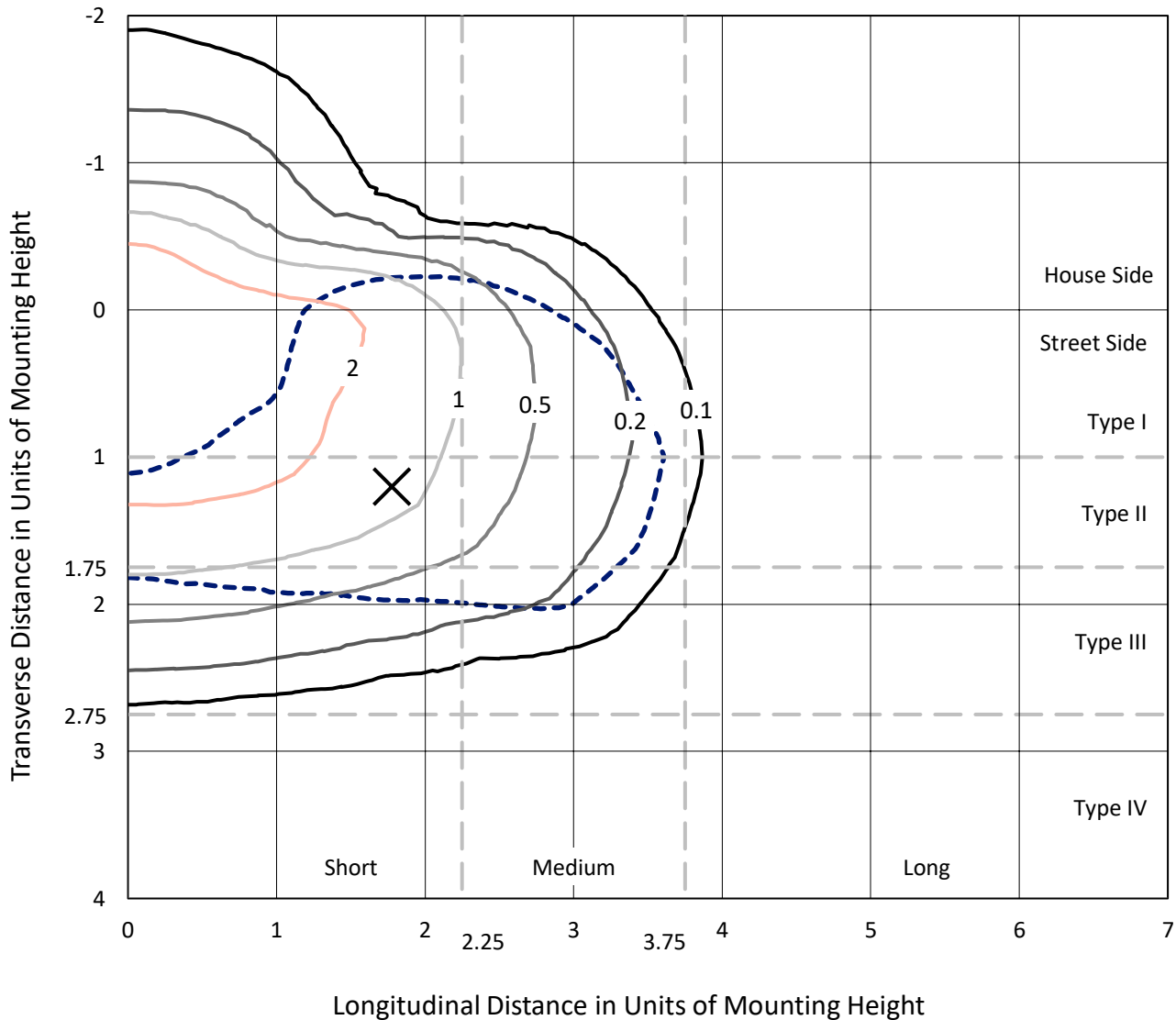
Lumens per Lamp: N/A
Luminaire Lumens: 15730.3 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

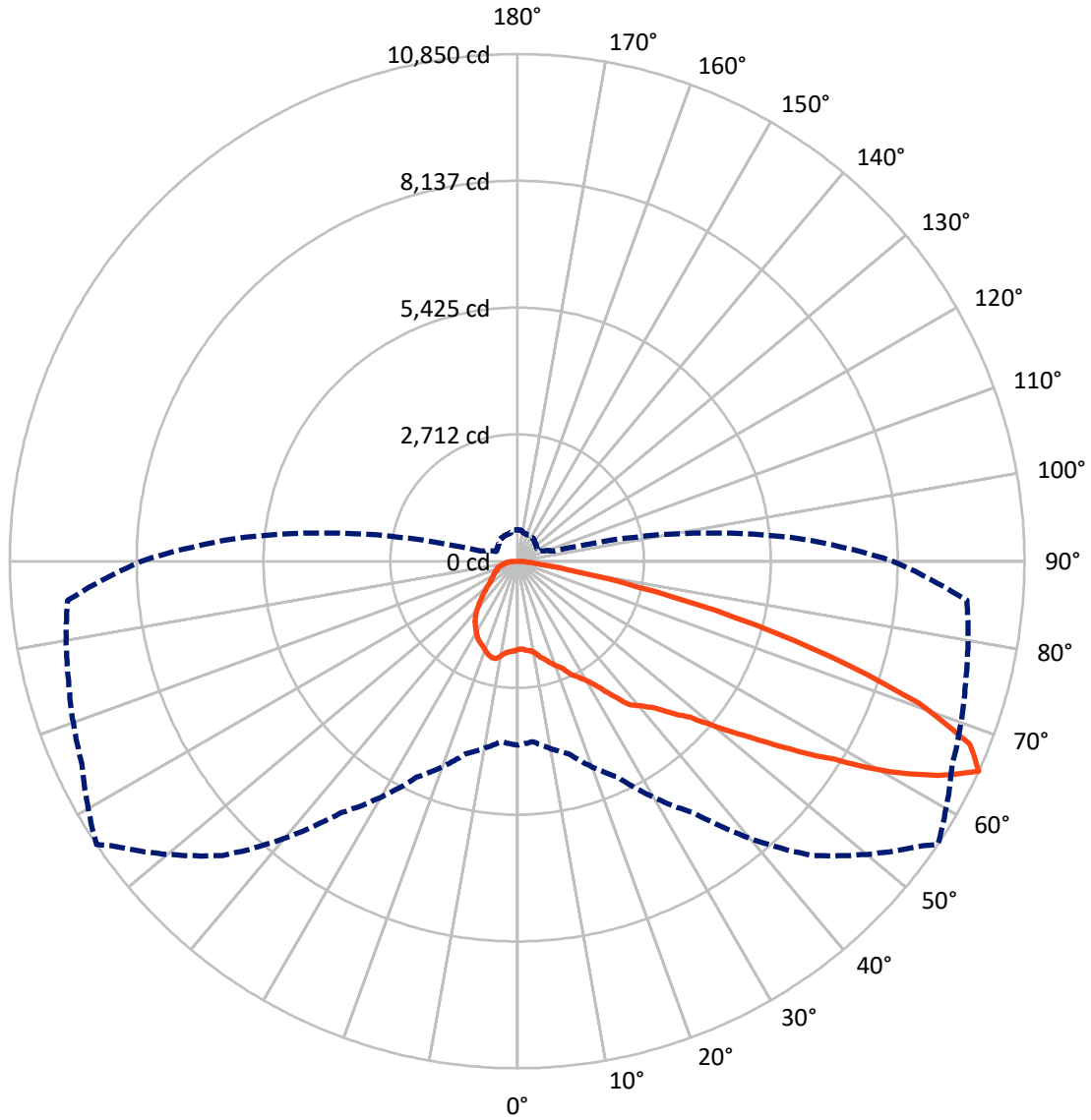
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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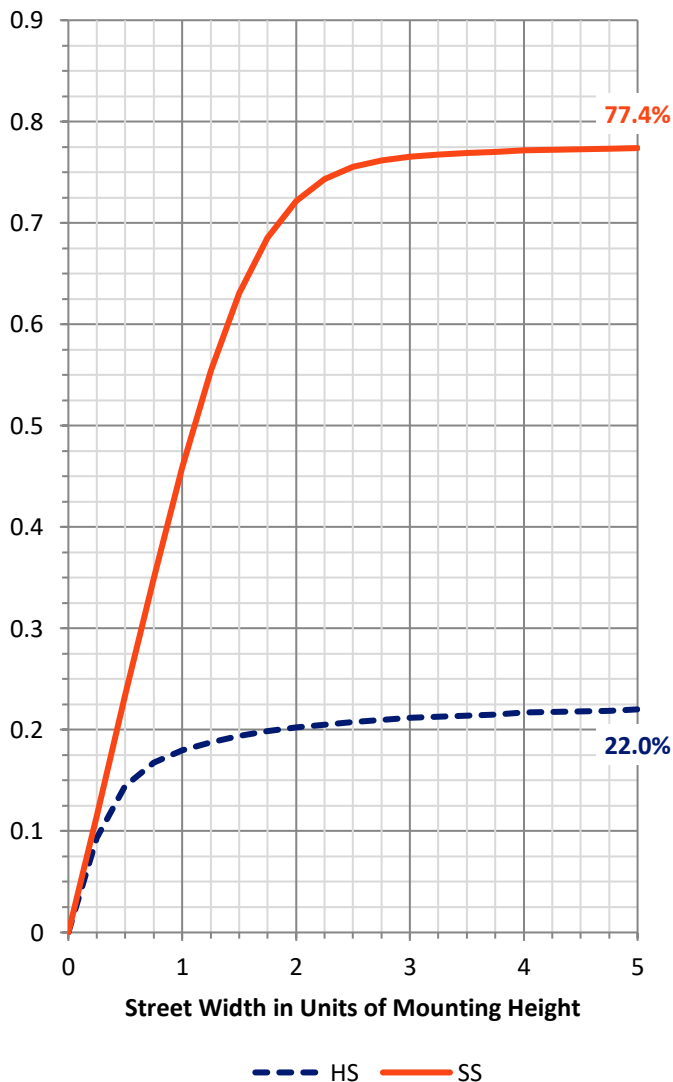
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3527.8	0.0	3527.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	12202.5	0.0	12202.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	15730.3	0.0	15730.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.2
10°-20°	607.5	3.9
20°-30°	1081.8	6.9
30°-40°	1619.9	10.3
40°-50°	2400.1	15.3
50°-60°	3698.3	23.5
60°-70°	4186.9	26.6
70°-80°	1737.6	11.0
80°-90°	211.1	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°	15730.3	100.0
0°-180°	15730.3	100.0

Coefficient of Utilization

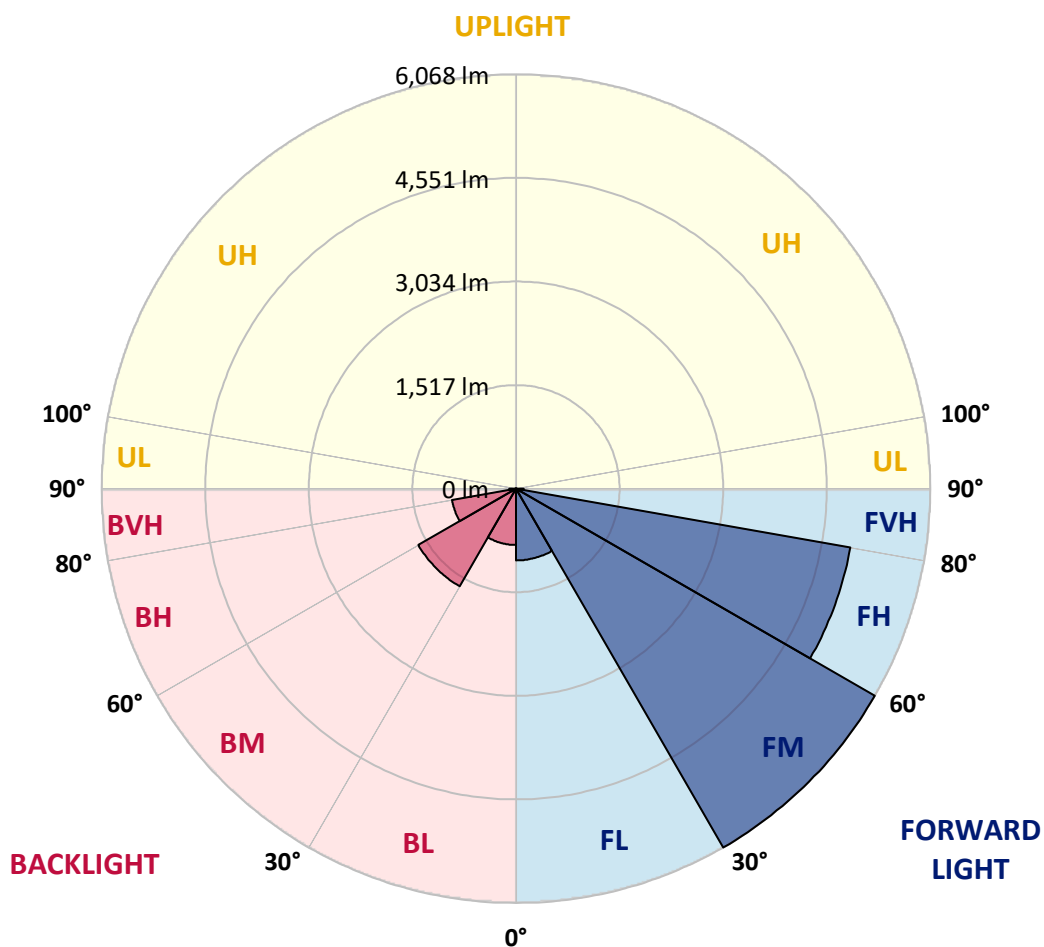


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1051.2	6.7			
FM (30°-60°)	6068.1	38.6			
FH (60°-80°)	4971.9	31.6			G2/5000
FVH (80°-90°)	111.3	0.7			G2/225
BL (0°-30°)	825.2	5.2	B2/1000		
BM (30°-60°)	1650.2	10.5	B2/2500		
BH (60°-80°)	952.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	99.7	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°	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1
2.5°	1838.7	1848.6	1842.0	1861.7	1878.2	1878.2	1891.4	1881.5	1894.7	1912.8
5°	1899.6	1860.1	1881.5	1891.4	1886.4	1894.7	1881.5	1914.4	1893.0	1927.6
7.5°	1914.4	1929.2	1947.3	1930.9	1945.7	1937.5	1939.1	1934.2	1922.7	1950.6
10°	2023.1	2001.7	2042.8	2018.1	2014.8	2011.5	2005.0	1980.3	2008.2	2009.9
12.5°	2148.2	2128.4	2126.8	2107.0	2133.4	2085.6	2095.5	2082.3	2087.3	2093.8
15°	2238.7	2230.5	2268.3	2245.3	2210.7	2189.3	2212.4	2176.2	2194.3	2191.0
17.5°	2418.1	2416.5	2388.5	2350.6	2330.9	2299.6	2294.7	2279.9	2293.0	2286.4
20°	2543.2	2561.3	2566.3	2521.8	2446.1	2411.5	2403.3	2391.8	2406.6	2401.7
22.5°	2734.2	2706.2	2727.6	2650.2	2622.2	2539.9	2510.3	2493.9	2564.6	2546.5
25°	2856.0	2885.6	2864.2	2837.9	2775.3	2673.3	2651.9	2688.1	2716.1	2696.3
27.5°	3130.9	3101.3	3081.5	3002.5	2961.3	2854.3	2829.7	2816.5	2823.1	2834.6
30°	3339.9	3356.4	3312.0	3256.0	3152.3	3043.7	2986.0	2974.5	2951.5	2931.7
32.5°	3637.9	3613.2	3586.9	3550.7	3461.8	3318.6	3262.6	3219.8	3150.6	3058.5
35°	3781.1	3851.9	3832.1	3735.0	3667.5	3613.2	3596.7	3530.9	3473.3	3328.4
37.5°	4019.8	4049.4	4021.4	3990.2	3958.9	3901.3	3881.5	3899.6	3786.0	3547.4
40°	4174.5	4237.1	4294.7	4207.4	4200.9	4212.4	4090.6	4069.2	3835.4	3710.3
42.5°	4490.6	4516.9	4528.4	4525.1	4563.0	4563.0	4330.9	4284.8	4118.6	4016.5
45°	4908.7	4930.1	4971.2	5000.9	4958.1	4979.5	4648.6	4630.5	4482.3	4462.6
47.5°	5270.8	5321.9	5414.0	5501.3	5557.3	5484.8	5122.7	4994.3	4956.4	5074.9
50°	5586.9	5526.0	5741.6	5830.5	6075.8	6195.9	5646.1	5595.1	5534.2	5761.4
52.5°	5618.2	5700.5	6005.0	6182.8	6688.1	6910.4	6288.1	6266.7	6192.7	6454.4
55°	5842.0	5832.2	6138.3	6523.5	7124.3	7498.0	7124.3	7111.2	6949.9	7198.4
57.5°	5804.2	5904.6	6146.6	6684.8	7517.8	8128.5	8093.9	8003.4	7777.9	7980.3
60°	5675.8	5702.1	5996.8	6679.9	7746.6	8775.4	9140.8	9158.9	8698.0	8859.3
62.5°	4948.2	5009.1	5382.8	6154.8	7583.6	9221.5	10163.1	10098.9	9730.1	9545.8
65°	3935.8	3874.9	4263.4	5098.0	6569.6	8905.4	10610.8	10849.5	10270.1	9932.6
67.5°	2413.2	2398.4	2772.0	3507.9	4915.3	7578.7	10253.6	10439.6	10120.3	9850.3
70°	1242.8	1204.9	1438.7	1957.2	3089.7	5560.5	8923.5	9106.3	9410.8	8834.7
72.5°	579.4	571.2	696.3	963.0	1573.7	3269.2	6910.4	7042.0	7684.0	7448.6
75°	340.7	345.7	416.5	503.7	767.1	1540.8	4586.1	4841.2	5537.5	5368.0
77.5°	255.1	255.1	296.3	350.6	447.7	595.9	2263.4	2600.8	3237.9	2912.0
80°	187.7	190.9	227.2	263.4	311.1	307.8	898.8	1053.5	1484.8	1269.1
82.5°	146.5	151.4	176.1	195.9	218.9	186.0	368.7	396.7	610.7	485.6
85°	102.1	105.4	138.3	133.3	133.3	103.7	153.1	161.3	242.0	230.5
87.5°	24.7	28.0	67.5	74.1	56.0	31.3	47.7	54.3	87.2	100.4
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°
1888.1	0°	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1	1888.1
1921.0	2.5°	1896.3	1902.9	1930.9	1916.1	1924.3	1889.7	1917.7	1894.7	1914.4	1904.5
1935.8	5°	1949.0	1934.2	1950.6	1939.1	1939.1	1952.3	1972.0	1957.2	1986.9	1973.7
1947.3	7.5°	1970.4	1972.0	1981.9	1983.6	1975.3	2016.5	2018.1	2013.2	2041.2	2034.6
2026.4	10°	2023.1	2024.7	2042.8	2052.7	2044.5	2059.3	2042.8	2029.6	2028.0	2021.4
2088.9	12.5°	2107.0	2123.5	2120.2	2128.4	2130.1	2067.5	2029.6	1965.5	1957.2	1965.5
2181.1	15°	2184.4	2177.8	2181.1	2197.6	2128.4	2028.0	1960.5	1906.2	1909.5	1911.1
2301.3	17.5°	2276.6	2281.5	2286.4	2210.7	2084.0	1965.5	1906.2	1906.2	1889.7	1896.3
2385.2	20°	2381.9	2362.2	2319.4	2212.4	2006.6	1893.0	1874.9	1874.9	1855.2	1842.0
2475.7	22.5°	2464.2	2424.7	2360.5	2161.3	1937.5	1865.0	1820.6	1789.3	1766.3	1739.9
2576.2	25°	2516.9	2495.5	2370.4	2108.7	1886.4	1791.0	1725.1	1677.4	1647.8	1613.2
2655.2	27.5°	2597.6	2556.4	2398.4	2047.8	1830.5	1716.9	1614.8	1540.8	1484.8	1448.6
2775.3	30°	2706.2	2646.9	2378.6	1960.5	1744.9	1588.5	1468.3	1372.9	1308.7	1279.0
2888.9	32.5°	2795.1	2717.7	2362.2	1881.5	1649.4	1458.5	1298.8	1201.7	1165.4	1127.6
3079.9	35°	2964.6	2811.5	2350.6	1837.1	1563.8	1328.4	1160.5	1076.6	1030.5	974.5
3193.4	37.5°	3094.7	2974.5	2322.7	1744.9	1453.5	1201.7	1055.2	979.4	910.3	851.0
3456.8	40°	3298.8	3201.7	2324.3	1614.8	1323.5	1093.0	972.8	893.8	806.6	755.6
3847.0	42.5°	3682.3	3425.5	2334.2	1511.1	1177.0	1004.1	898.8	804.9	717.7	674.9
4291.4	45°	4153.1	3733.4	2273.3	1417.3	1027.2	920.2	809.9	716.1	660.1	628.8
4895.5	47.5°	4694.7	4034.6	2191.0	1241.2	902.1	831.3	727.6	673.3	632.1	614.0
5674.1	50°	5300.5	4465.9	2167.9	1079.8	804.9	755.6	688.1	646.9	618.9	597.5
6551.5	52.5°	6080.7	4967.9	2121.8	913.6	721.0	694.7	673.3	645.3	620.6	602.5
7369.6	55°	6826.4	5524.3	2072.4	777.0	661.7	665.0	676.5	651.9	630.5	602.5
8286.5	57.5°	7665.9	6092.2	1889.7	676.5	617.3	650.2	673.3	645.3	623.9	602.5
9224.8	60°	8184.4	6411.6	1532.5	589.3	577.8	622.2	653.5	623.9	600.8	609.1
9656.1	62.5°	8395.1	6243.7	1155.6	535.0	549.8	584.4	622.2	610.7	594.2	625.5
9651.1	65°	8036.3	5856.8	826.3	488.9	511.9	546.5	594.2	607.4	612.4	673.3
8864.3	67.5°	7150.7	5099.6	607.4	451.0	472.4	523.5	614.0	635.4	632.1	707.8
7438.8	70°	5721.9	3988.5	474.1	419.8	457.6	541.6	642.0	642.0	618.9	707.8
5674.1	72.5°	4163.0	2811.5	408.2	383.5	419.8	497.1	638.7	637.0	607.4	646.9
3613.2	75°	2520.2	1636.2	360.5	347.3	360.5	426.3	610.7	600.8	559.7	556.4
1738.3	77.5°	1256.0	823.1	294.7	307.8	314.4	357.2	536.6	551.4	495.5	482.3
686.4	80°	530.0	358.9	245.3	265.0	265.0	301.2	446.1	456.0	411.5	386.8
271.6	82.5°	242.0	205.8	209.1	230.5	215.6	233.7	353.9	365.4	334.2	293.0
115.2	85°	102.1	116.9	159.7	181.1	159.7	151.4	243.6	256.8	217.3	181.1
49.4	87.5°	46.1	64.2	100.4	131.7	80.7	70.8	130.0	135.0	108.6	80.7
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°
1888.1
1886.4
1955.6
2024.7
2021.4
1968.7
1934.2
1898.0
1822.2
1725.1
1619.8
1465.0
1295.5
1125.9
969.6
852.7
760.5
678.2
635.4
610.7
600.8
600.8
600.8
600.8
602.5
617.3
673.3
712.8
693.0
623.9
549.8
474.1
378.6
286.4
182.7
75.7
0.0

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