

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: P477296

Luminaire Tested: **IFLD-S-SA2D-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477296
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

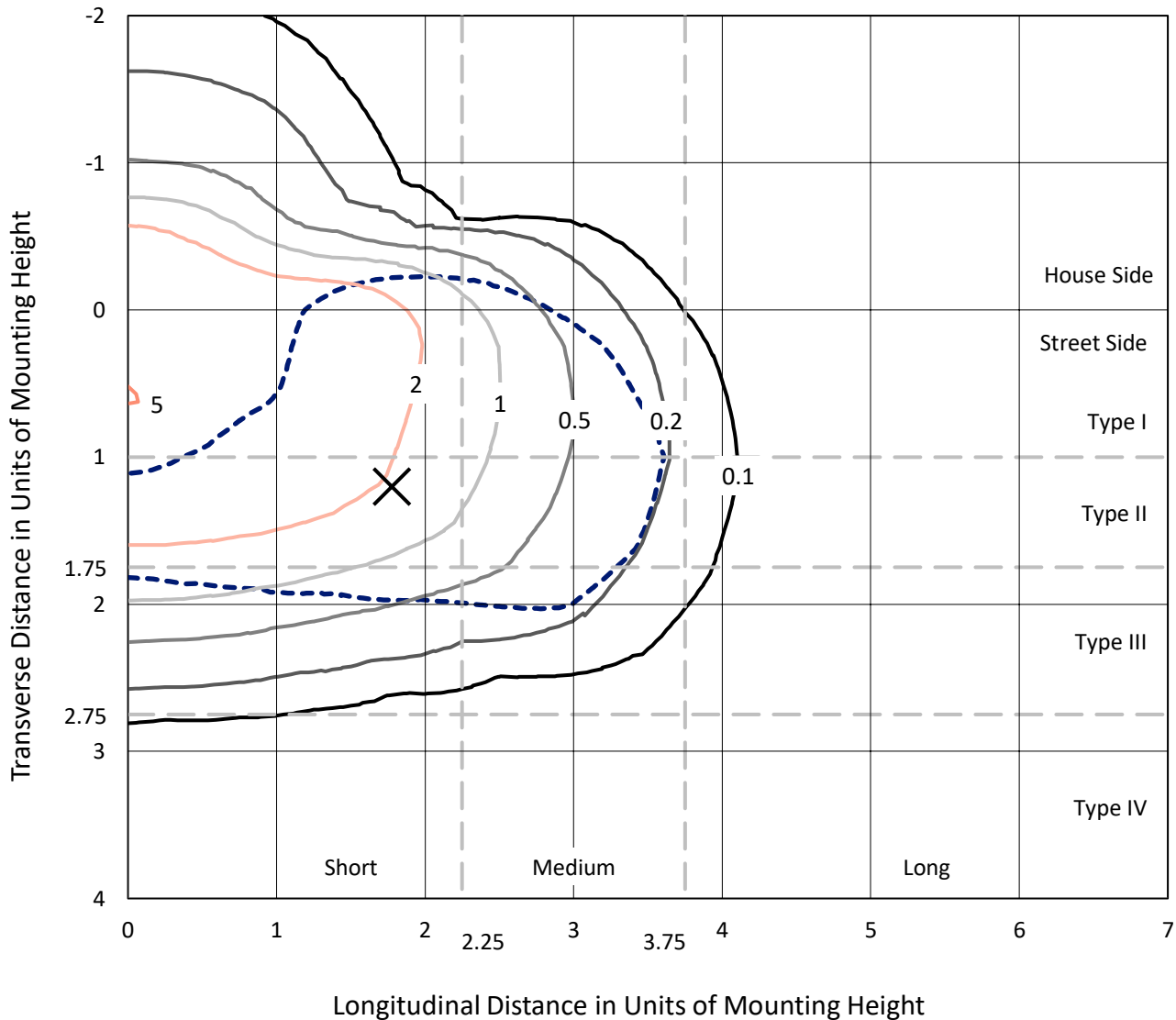
Lumens per Lamp: N/A
Luminaire Lumens: 14505.1 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

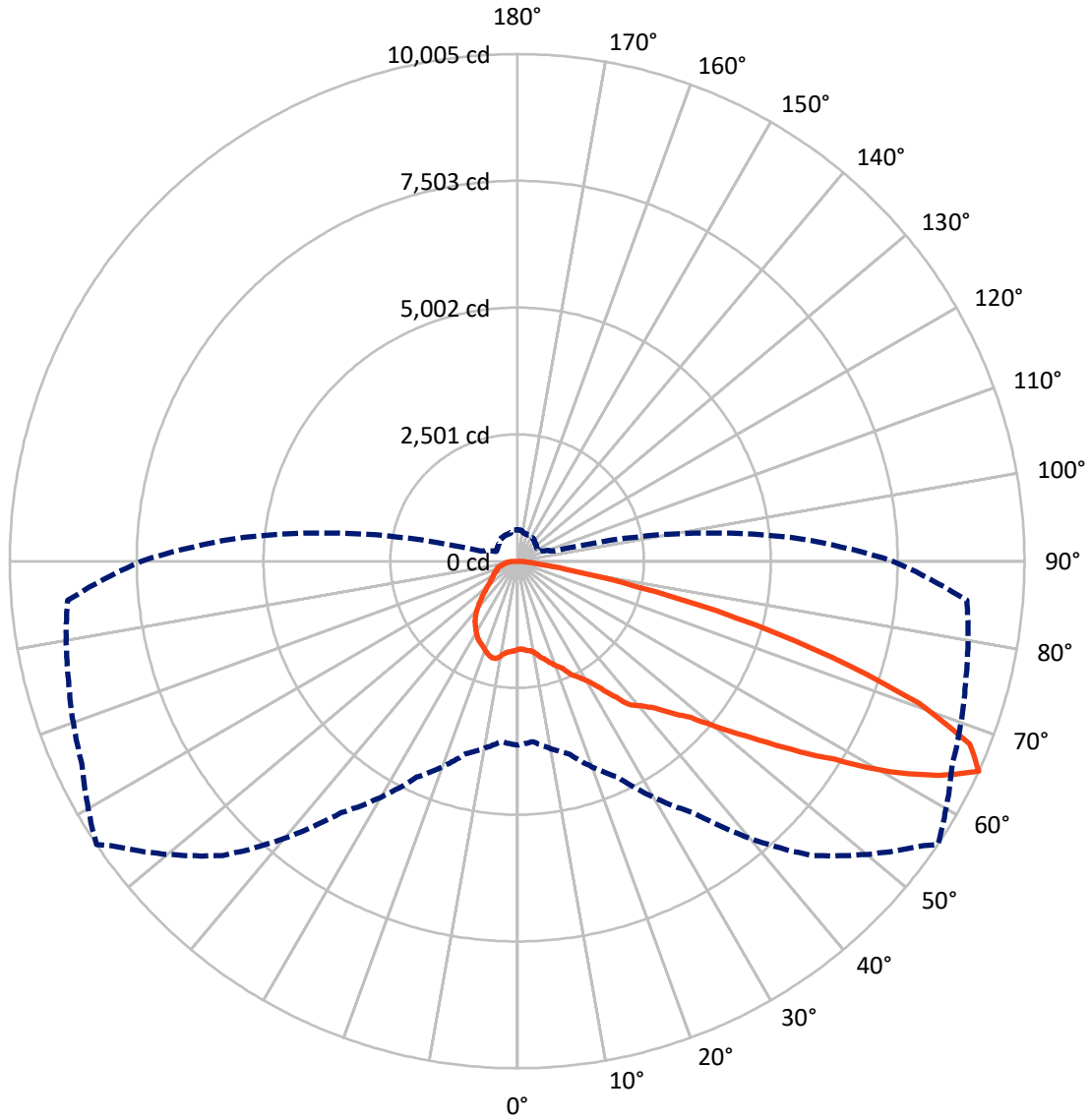
✕ Max cd
 - - - 1/2 Max cd



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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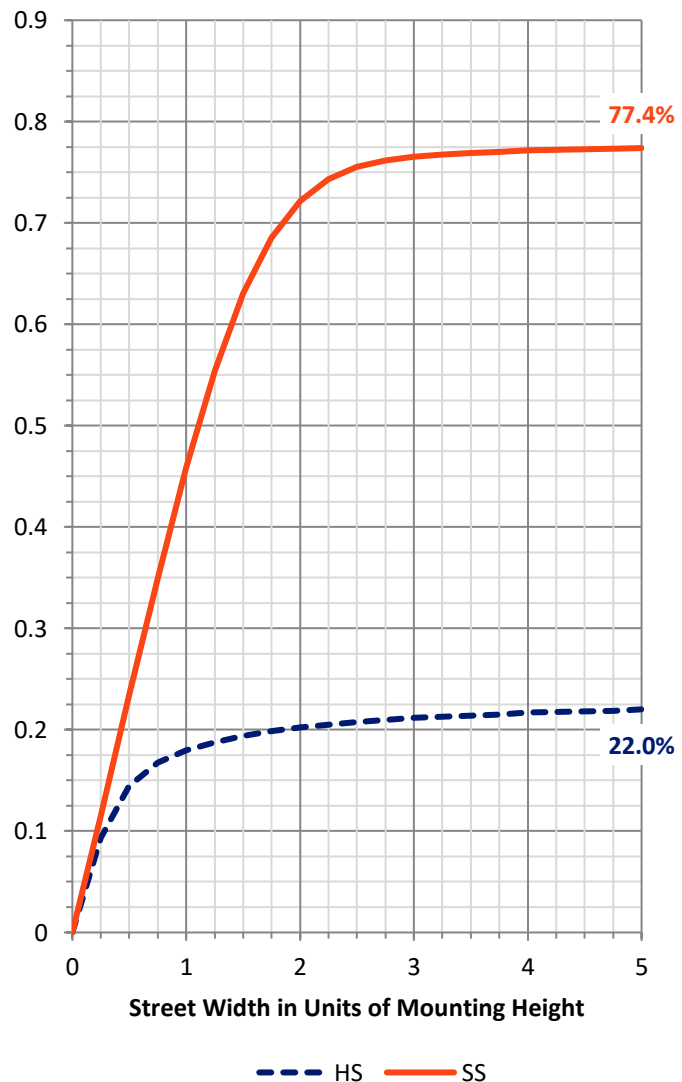
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3253.0	0.0	3253.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	11252.1	0.0	11252.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	14505.1	0.0	14505.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	1.2
10°-20°	560.2	3.9
20°-30°	997.5	6.9
30°-40°	1493.8	10.3
40°-50°	2213.2	15.3
50°-60°	3410.2	23.5
60°-70°	3860.8	26.6
70°-80°	1602.3	11.0
80°-90°	194.7	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°	14505.1	100.0
0°-180°	14505.1	100.0

Coefficient of Utilization

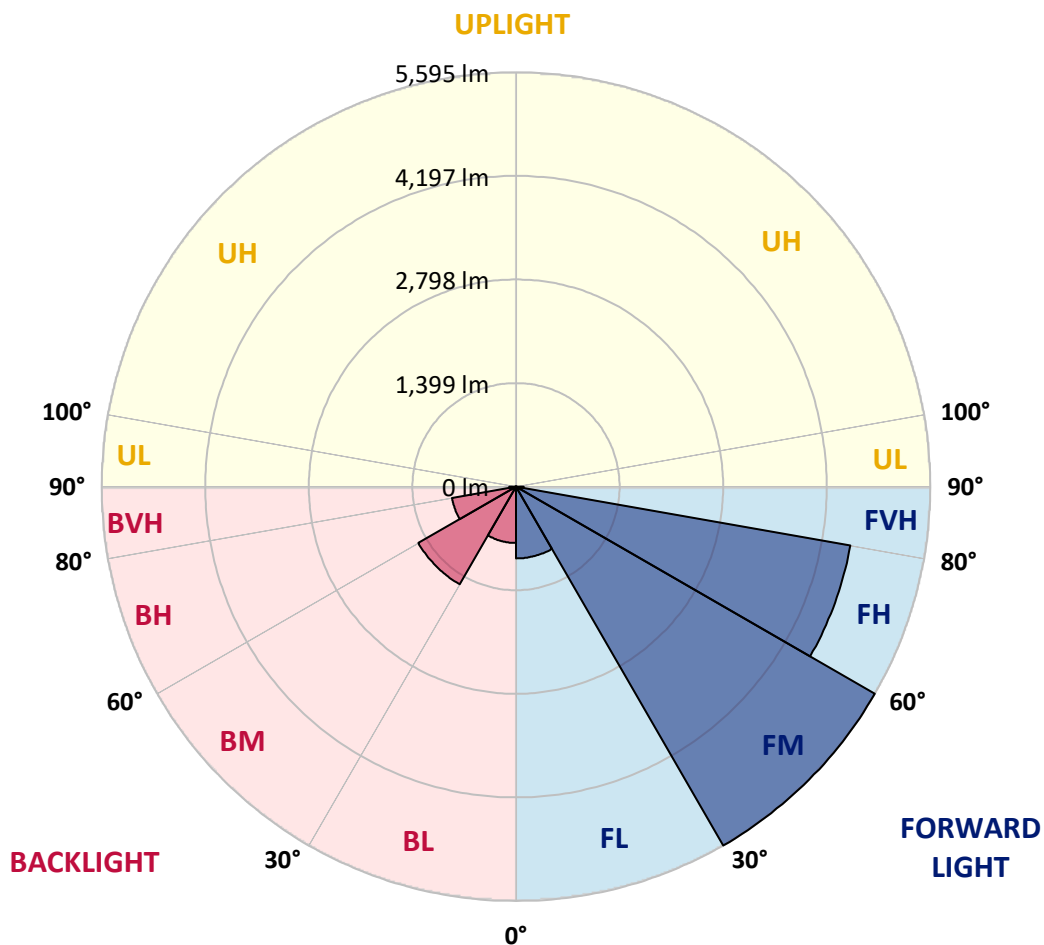


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.4	6.7			
FM (30°-60°)	5595.4	38.6			
FH (60°-80°)	4584.6	31.6			G2/5000
FVH (80°-90°)	102.7	0.7			G2/225
BL (0°-30°)	760.9	5.2	B2/1000		
BM (30°-60°)	1521.7	10.5	B2/2500		
BH (60°-80°)	878.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	92.0	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°	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0
2.5°	1695.5	1704.6	1698.5	1716.7	1731.9	1731.9	1744.1	1735.0	1747.1	1763.8
5°	1751.7	1715.2	1735.0	1744.1	1739.5	1747.1	1735.0	1765.3	1745.6	1777.5
7.5°	1765.3	1779.0	1795.7	1780.5	1794.2	1786.6	1788.1	1783.5	1772.9	1798.7
10°	1865.5	1845.8	1883.7	1860.9	1857.9	1854.9	1848.8	1826.0	1851.8	1853.4
12.5°	1980.9	1962.6	1961.1	1942.9	1967.2	1923.2	1932.3	1920.1	1924.7	1930.8
15°	2064.3	2056.7	2091.7	2070.4	2038.5	2018.8	2040.1	2006.7	2023.4	2020.3
17.5°	2229.8	2228.3	2202.5	2167.6	2149.3	2120.5	2115.9	2102.3	2114.4	2108.4
20°	2345.1	2361.8	2366.4	2325.4	2255.6	2223.7	2216.1	2205.5	2219.2	2214.6
22.5°	2521.2	2495.4	2515.2	2443.8	2418.0	2342.1	2314.8	2299.6	2364.9	2348.2
25°	2633.5	2660.9	2641.1	2616.9	2559.2	2465.1	2445.3	2478.7	2504.5	2486.3
27.5°	2887.0	2859.7	2841.5	2768.6	2730.7	2632.0	2609.3	2597.1	2603.2	2613.8
30°	3079.8	3095.0	3054.0	3002.4	2906.8	2806.6	2753.5	2742.8	2721.6	2703.4
32.5°	3354.5	3331.8	3307.5	3274.1	3192.1	3060.1	3008.5	2969.0	2905.3	2820.3
35°	3486.6	3551.9	3533.7	3444.1	3381.9	3331.8	3316.6	3255.9	3202.8	3069.2
37.5°	3706.7	3734.0	3708.2	3679.4	3650.5	3597.4	3579.2	3595.9	3491.2	3271.1
40°	3849.4	3907.1	3960.2	3879.7	3873.7	3884.3	3772.0	3752.2	3536.7	3421.3
42.5°	4140.8	4165.1	4175.7	4172.7	4207.6	4207.6	3993.6	3951.1	3797.8	3703.7
45°	4526.4	4546.1	4584.0	4611.4	4571.9	4591.6	4286.5	4269.8	4133.2	4115.0
47.5°	4860.3	4907.4	4992.4	5072.8	5124.4	5057.6	4723.7	4605.3	4570.4	4679.7
50°	5151.7	5095.6	5294.4	5376.4	5602.6	5713.4	5206.4	5159.3	5103.2	5312.6
52.5°	5180.6	5256.5	5537.3	5701.2	6167.2	6372.1	5798.4	5778.6	5710.3	5951.7
55°	5387.0	5377.9	5660.2	6015.4	6569.5	6914.0	6569.5	6557.3	6408.6	6637.8
57.5°	5352.1	5444.7	5667.8	6164.2	6932.2	7495.4	7463.5	7380.0	7172.1	7358.8
60°	5233.7	5258.0	5529.7	6159.6	7143.2	8091.9	8428.9	8445.6	8020.6	8169.3
62.5°	4562.8	4619.0	4963.5	5675.4	6992.9	8503.3	9371.5	9312.3	8972.3	8802.3
65°	3629.3	3573.1	3931.4	4700.9	6057.9	8211.8	9784.4	10004.5	9470.2	9159.0
67.5°	2225.2	2211.6	2556.1	3234.6	4532.4	6988.4	9455.0	9626.5	9332.0	9083.1
70°	1146.0	1111.1	1326.6	1804.8	2849.1	5127.5	8228.5	8397.0	8677.8	8146.5
72.5°	534.3	526.7	642.1	888.0	1451.1	3014.5	6372.1	6493.6	7085.5	6868.5
75°	314.2	318.8	384.0	464.5	707.3	1420.8	4228.9	4464.1	5106.2	4949.9
77.5°	235.3	235.3	273.2	323.3	412.9	549.5	2087.1	2398.3	2985.7	2685.2
80°	173.0	176.1	209.5	242.9	286.9	283.8	828.8	971.5	1369.1	1170.3
82.5°	135.1	139.6	162.4	180.6	201.9	171.5	340.0	365.8	563.1	447.8
85°	94.1	97.1	127.5	122.9	122.9	95.6	141.2	148.8	223.1	212.5
87.5°	22.8	25.8	62.2	68.3	51.6	28.8	44.0	50.1	80.4	92.6
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1741.0	0°	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0	1741.0
1771.4	2.5°	1748.6	1754.7	1780.5	1766.8	1774.4	1742.5	1768.3	1747.1	1765.3	1756.2
1785.0	5°	1797.2	1783.5	1798.7	1788.1	1788.1	1800.2	1818.4	1804.8	1832.1	1820.0
1795.7	7.5°	1816.9	1818.4	1827.5	1829.1	1821.5	1859.4	1860.9	1856.4	1882.2	1876.1
1868.5	10°	1865.5	1867.0	1883.7	1892.8	1885.2	1898.9	1883.7	1871.6	1870.0	1864.0
1926.2	12.5°	1942.9	1958.1	1955.0	1962.6	1964.2	1906.5	1871.6	1812.4	1804.8	1812.4
2011.2	15°	2014.2	2008.2	2011.2	2026.4	1962.6	1870.0	1807.8	1757.7	1760.8	1762.3
2122.0	17.5°	2099.3	2103.8	2108.4	2038.5	1921.7	1812.4	1757.7	1757.7	1742.5	1748.6
2199.4	20°	2196.4	2178.2	2138.7	2040.1	1850.3	1745.6	1728.9	1728.9	1710.7	1698.5
2282.9	22.5°	2272.3	2235.9	2176.7	1993.0	1786.6	1719.8	1678.8	1650.0	1628.7	1604.4
2375.5	25°	2320.9	2301.1	2185.8	1944.4	1739.5	1651.5	1590.8	1546.7	1519.4	1487.5
2448.4	27.5°	2395.2	2357.3	2211.6	1888.3	1687.9	1583.2	1489.1	1420.8	1369.1	1335.7
2559.2	30°	2495.4	2440.8	2193.4	1807.8	1609.0	1464.8	1354.0	1265.9	1206.7	1179.4
2663.9	32.5°	2577.4	2506.0	2178.2	1735.0	1520.9	1344.9	1197.6	1108.1	1074.7	1039.8
2840.0	35°	2733.7	2592.6	2167.6	1694.0	1442.0	1224.9	1070.1	992.7	950.2	898.6
2944.7	37.5°	2853.6	2742.8	2141.8	1609.0	1340.3	1108.1	973.0	903.1	839.4	784.8
3187.6	40°	3041.9	2952.3	2143.3	1489.1	1220.4	1007.9	897.1	824.2	743.8	696.7
3547.3	42.5°	3395.5	3158.7	2152.4	1393.4	1085.3	925.9	828.8	742.3	661.8	622.3
3957.2	45°	3829.7	3442.6	2096.2	1306.9	947.2	848.5	746.8	660.3	608.7	579.8
4514.2	47.5°	4329.0	3720.4	2020.3	1144.5	831.8	766.5	670.9	620.8	582.9	566.2
5232.2	50°	4887.6	4118.1	1999.1	995.7	742.3	696.7	634.5	596.5	570.7	551.0
6041.2	52.5°	5607.1	4581.0	1956.6	842.4	664.8	640.6	620.8	595.0	572.2	555.5
6795.6	55°	6294.7	5094.1	1911.0	716.4	610.2	613.2	623.9	601.1	581.4	555.5
7641.1	57.5°	7068.8	5617.7	1742.5	623.9	569.2	599.6	620.8	595.0	575.3	555.5
8506.3	60°	7547.0	5912.2	1413.2	543.4	532.8	573.8	602.6	575.3	554.0	561.6
8904.0	62.5°	7741.3	5757.4	1065.6	493.3	507.0	538.9	573.8	563.1	548.0	576.8
8899.4	65°	7410.4	5400.7	762.0	450.8	472.1	503.9	548.0	560.1	564.7	620.8
8173.9	67.5°	6593.7	4702.4	560.1	415.9	435.6	482.7	566.2	585.9	582.9	652.7
6859.4	70°	5276.2	3677.9	437.2	387.1	422.0	499.4	592.0	592.0	570.7	652.7
5232.2	72.5°	3838.8	2592.6	376.4	353.7	387.1	458.4	588.9	587.4	560.1	596.5
3331.8	75°	2323.9	1508.8	332.4	320.3	332.4	393.1	563.1	554.0	516.1	513.0
1602.9	77.5°	1158.2	758.9	271.7	283.8	289.9	329.4	494.8	508.5	456.9	444.7
633.0	80°	488.8	330.9	226.2	244.4	244.4	277.8	411.3	420.5	379.5	356.7
250.5	82.5°	223.1	189.7	192.8	212.5	198.8	215.5	326.3	337.0	308.1	270.2
106.3	85°	94.1	107.8	147.2	167.0	147.2	139.6	224.6	236.8	200.4	167.0
45.5	87.5°	42.5	59.2	92.6	121.4	74.4	65.3	119.9	124.5	100.2	74.4
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



<u>180°</u>
1741.0
1739.5
1803.3
1867.0
1864.0
1815.4
1783.5
1750.1
1680.3
1590.8
1493.6
1350.9
1194.6
1038.2
894.0
786.3
701.3
625.4
585.9
563.1
554.0
554.0
554.0
554.0
555.5
569.2
620.8
657.2
639.0
575.3
507.0
437.2
349.1
264.1
168.5
69.8
0.0

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