

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: P477920

Luminaire Tested: **IFLD-S-SA2D-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477920
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

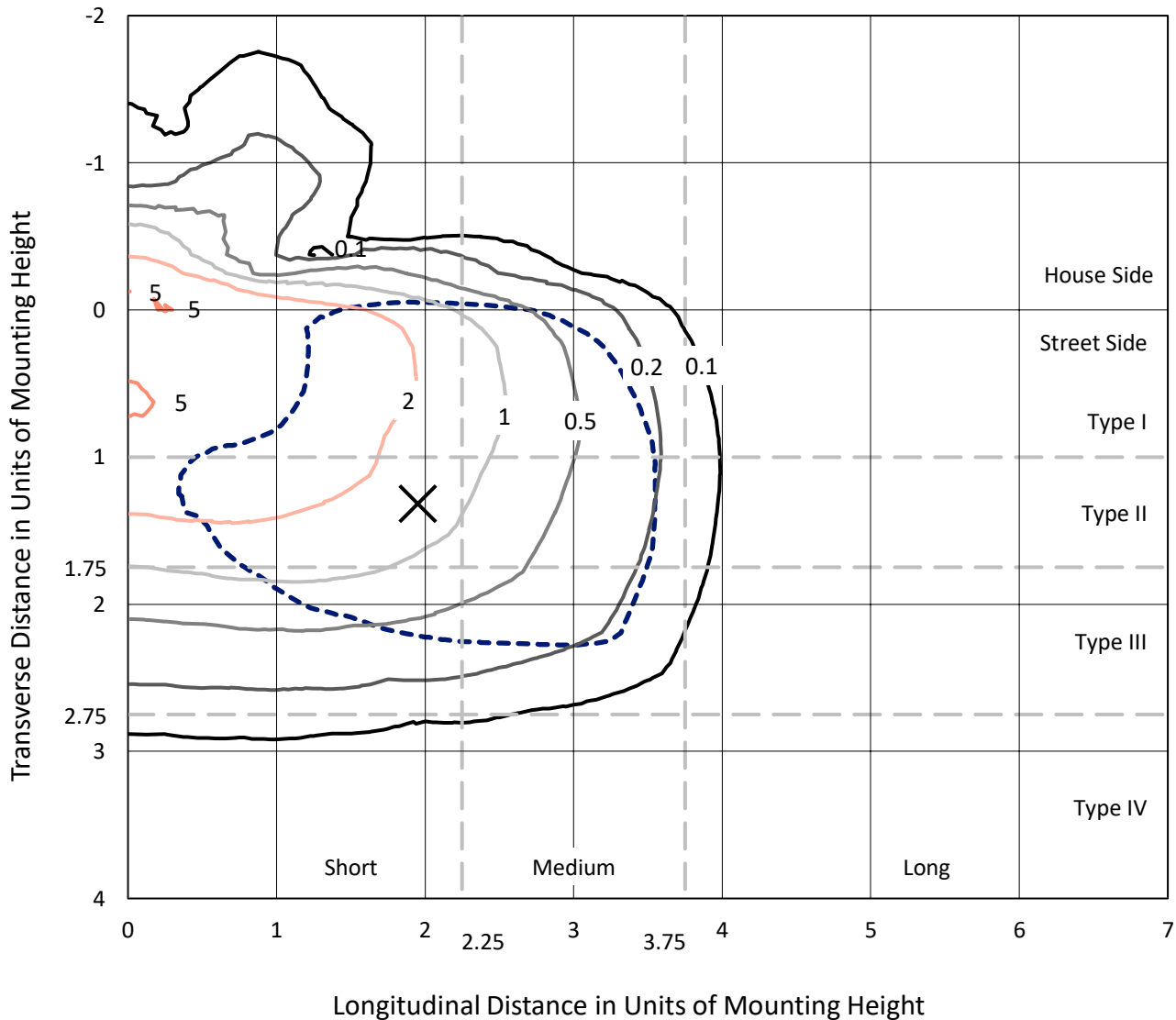
Lumens per Lamp: N/A
Luminaire Lumens: 12207.2 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

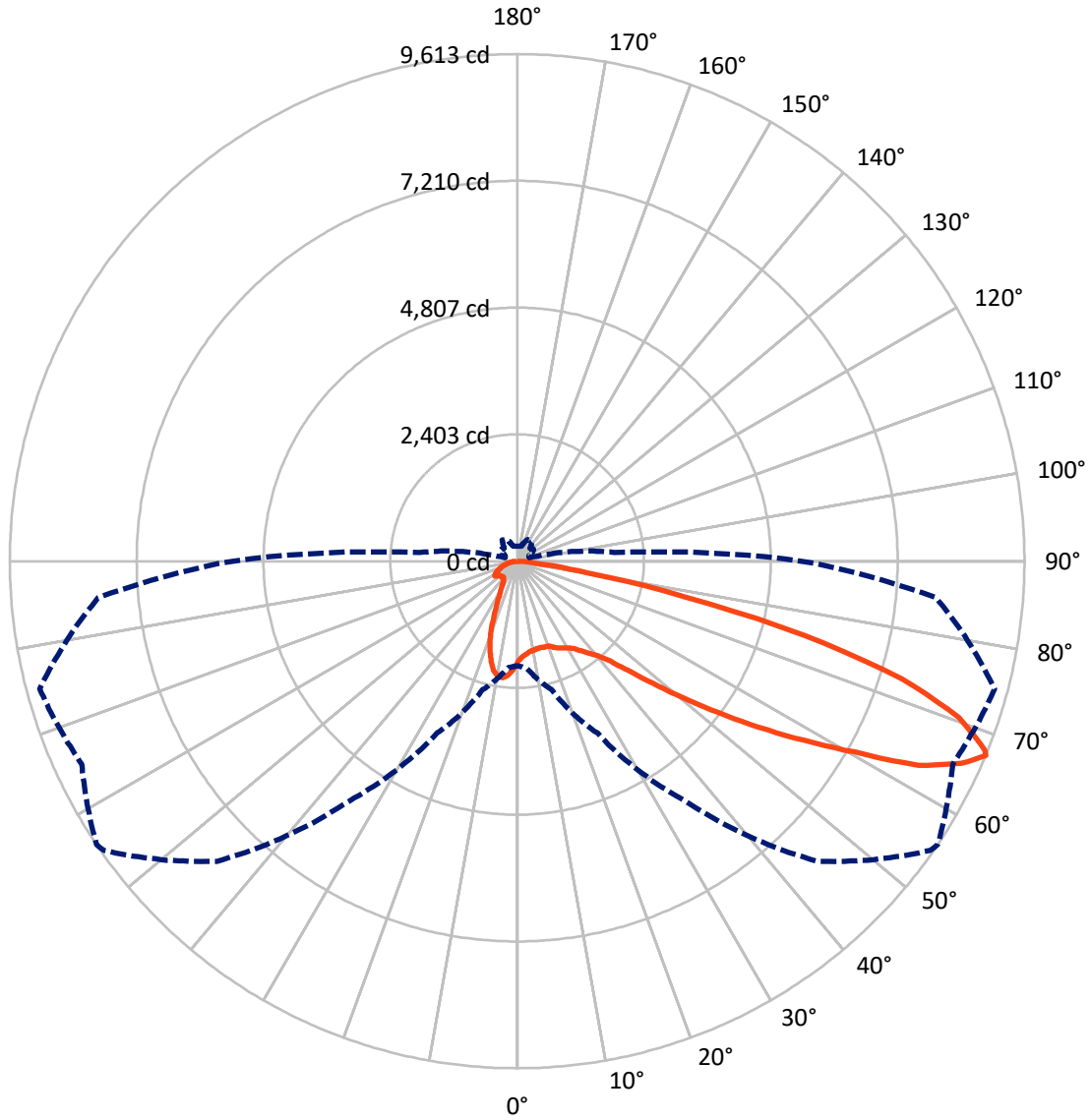
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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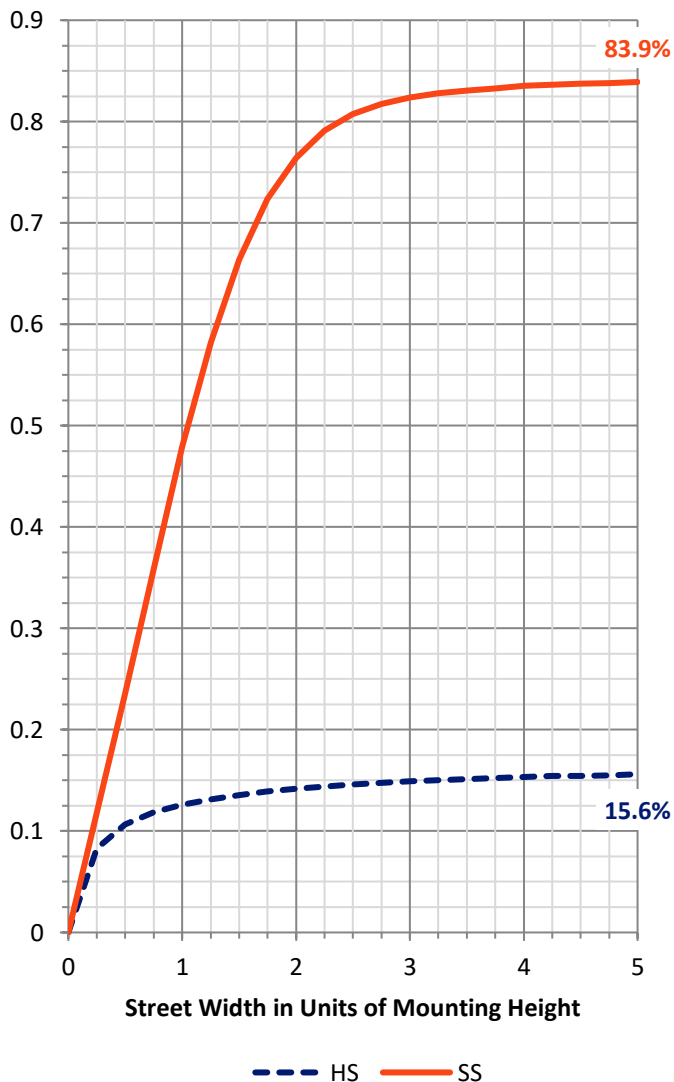
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1932.5	0.0	1932.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	10274.6	0.0	10274.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	12207.2	0.0	12207.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.5
10°-20°	499.2	4.1
20°-30°	782.9	6.4
30°-40°	1117.6	9.2
40°-50°	1686.8	13.8
50°-60°	2685.0	22.0
60°-70°	3432.6	28.1
70°-80°	1673.6	13.7
80°-90°	146.4	1.2
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°	12207.2	100.0
0°-180°	12207.2	100.0

Coefficient of Utilization

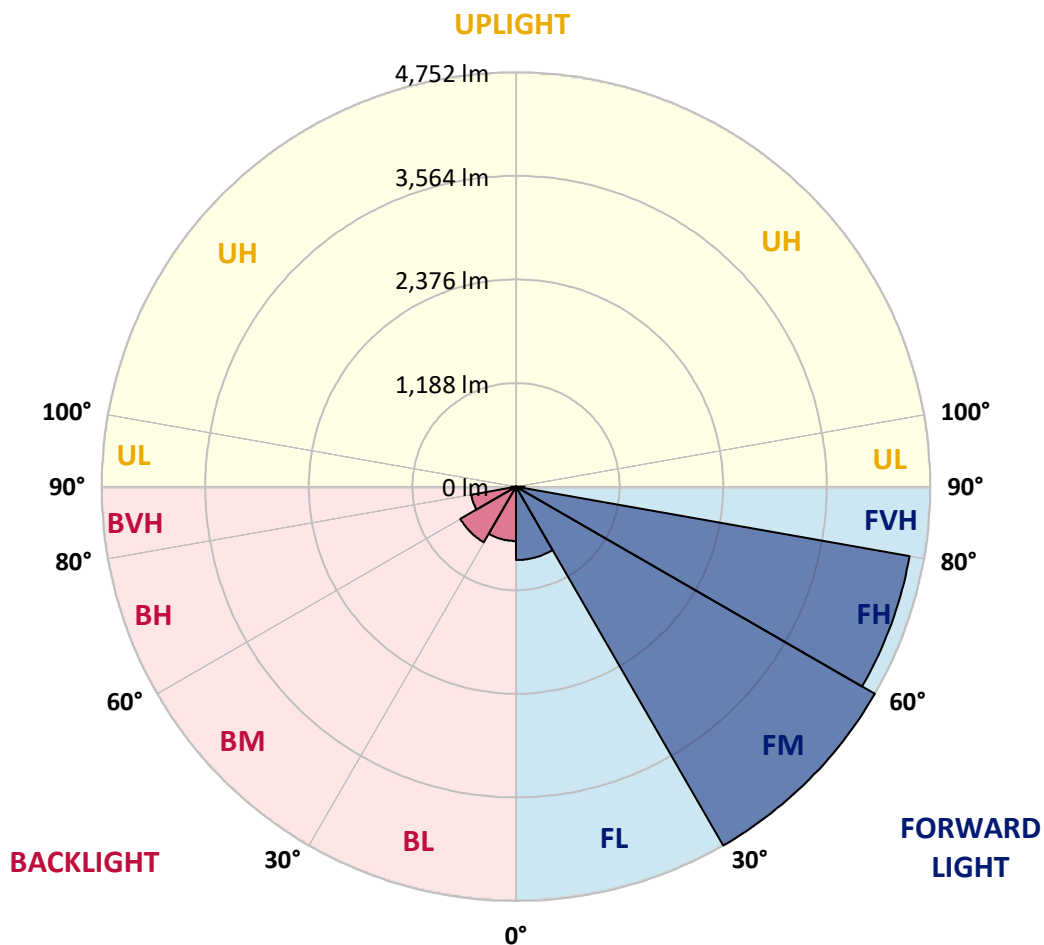


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.2	6.9			
FM (30°-60°)	4752.1	38.9			
FH (60°-80°)	4584.1	37.6			G2/5000
FVH (80°-90°)	97.2	0.8			G1/100
BL (0°-30°)	623.9	5.1	B2/1000		
BM (30°-60°)	737.3	6.0	B1/1000		
BH (60°-80°)	522.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	49.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4
2.5°	1744.8	1737.7	1746.2	1737.7	1776.3	1799.2	1806.4	1816.4	1852.2	1886.5
5°	1671.8	1640.3	1674.7	1686.1	1689.0	1727.6	1767.7	1774.9	1793.5	1849.3
7.5°	1550.2	1585.9	1573.1	1607.4	1643.2	1681.8	1747.7	1729.1	1797.8	1850.7
10°	1524.4	1527.3	1541.6	1554.4	1585.9	1636.0	1727.6	1716.2	1786.3	1899.4
12.5°	1550.2	1550.2	1545.9	1535.8	1571.6	1620.3	1693.3	1699.0	1809.2	1913.7
15°	1640.3	1657.5	1611.7	1618.9	1604.5	1620.3	1684.7	1697.6	1817.8	1925.2
17.5°	1860.8	1855.0	1800.6	1724.8	1661.8	1651.8	1696.2	1710.5	1809.2	1958.1
20°	2075.5	2064.0	1969.5	1890.8	1766.3	1707.6	1714.8	1716.2	1823.5	1979.6
22.5°	2314.5	2344.6	2241.5	2081.2	1926.6	1780.6	1752.0	1774.9	1856.5	1991.0
25°	2689.5	2625.1	2536.4	2325.9	2076.9	1893.7	1813.5	1825.0	1888.0	2019.6
27.5°	2960.0	2934.3	2795.4	2625.1	2287.3	1982.4	1846.4	1867.9	1945.2	2018.2
30°	3220.5	3220.5	3136.1	2881.3	2509.2	2131.3	1916.6	1906.6	1918.0	2015.3
32.5°	3525.4	3483.9	3362.2	3193.3	2788.3	2267.3	1972.4	1975.3	1975.3	2068.3
35°	3685.7	3753.0	3671.4	3396.6	3001.5	2493.4	2106.9	2085.5	2069.7	2127.0
37.5°	3920.5	3960.5	3874.7	3712.9	3266.3	2676.6	2225.8	2208.6	2117.0	2172.8
40°	4062.2	4055.0	4052.2	3977.7	3617.0	2892.8	2400.4	2356.0	2232.9	2334.5
42.5°	4142.3	4128.0	4304.1	4258.3	3947.7	3210.5	2619.4	2595.0	2459.1	2622.2
45°	4232.5	4338.4	4483.0	4611.8	4332.7	3657.1	2990.1	2955.7	2834.1	3041.6
47.5°	4311.2	4441.5	4626.1	4763.5	4680.5	4142.3	3448.1	3456.7	3376.6	3589.8
50°	4442.9	4455.8	4706.3	4984.0	5048.4	4590.3	4063.6	4049.3	4013.5	4312.7
52.5°	4402.8	4441.5	4757.8	5112.8	5218.7	5064.1	4724.9	4767.8	4720.6	5097.0
55°	3750.1	3866.1	4726.3	5248.8	5622.3	5599.4	5575.1	5546.5	5543.6	5978.8
57.5°	3453.8	3548.3	4163.8	5399.1	6054.6	6223.5	6381.0	6412.5	6411.0	6936.3
60°	3259.2	3356.5	3936.2	5317.5	6422.5	7040.8	7342.8	7347.1	7338.5	7959.7
62.5°	2878.4	2972.9	3542.6	4870.9	6524.1	7795.1	8467.9	8523.7	8130.1	8841.5
65°	2420.4	2497.7	3000.1	4188.1	6253.6	8274.6	9313.8	9248.0	8797.1	9345.3
67°	1979.6	2031.1	2520.6	3595.6	5546.5	8044.2	9558.6	9613.0	9104.8	9366.8
67.5°	1853.6	1900.8	2363.2	3393.7	5277.4	7869.6	9567.1	9558.6	9110.5	9371.1
70°	1286.8	1306.8	1610.3	2334.5	3887.5	6648.6	8868.7	8888.7	8728.4	8862.9
72.5°	853.1	883.1	1076.4	1471.4	2291.6	4838.0	7413.0	7627.7	7526.0	7267.0
75°	549.6	566.8	704.2	876.0	1127.9	2755.4	5476.3	5619.5	5386.2	4494.4
77.5°	307.7	326.3	425.1	532.5	549.6	1146.5	3076.0	3253.5	2756.8	1909.4
80°	191.8	216.1	320.6	316.3	261.9	420.8	1268.2	1358.4	1102.1	657.0
82.5°	144.6	163.2	247.6	221.9	147.4	187.5	475.2	509.6	403.6	253.3
85°	98.8	124.5	178.9	137.4	77.3	90.2	188.9	203.3	184.6	123.1
87.5°	35.8	53.0	93.0	68.7	34.4	27.2	61.5	68.7	65.8	55.8
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°
1899.4	0°	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4	1899.4
1916.6	2.5°	1943.8	1963.8	1973.8	2032.5	2056.9	2052.6	2058.3	2066.9	2075.5	2086.9
1940.9	5°	1959.5	2021.1	2054.0	2122.7	2168.5	2148.5	2174.2	2167.1	2157.0	2155.6
1985.3	7.5°	2011.0	2089.8	2188.5	2207.1	2227.2	2177.1	2134.1	2075.5	2061.1	2011.0
2022.5	10°	2102.7	2167.1	2287.3	2294.5	2205.7	2076.9	1981.0	1859.3	1857.9	1784.9
2079.8	12.5°	2190.0	2263.0	2360.3	2318.8	2106.9	1930.9	1774.9	1641.8	1585.9	1548.7
2114.1	15°	2244.4	2364.6	2416.1	2237.2	1933.8	1696.2	1494.3	1351.2	1293.9	1266.7
2157.0	17.5°	2294.5	2461.9	2439.0	2094.1	1720.5	1454.3	1213.8	1089.3	1073.5	1053.5
2225.8	20°	2363.2	2497.7	2357.4	1908.0	1478.6	1142.2	989.1	928.9	943.3	951.8
2232.9	22.5°	2427.6	2516.3	2254.4	1704.7	1168.0	904.6	828.8	841.6	863.1	891.7
2250.1	25°	2456.2	2546.4	2115.5	1424.2	888.9	761.5	744.3	765.8	801.6	803.0
2274.4	27.5°	2474.8	2524.9	1948.1	1150.8	702.8	665.6	691.3	707.1	711.4	728.6
2325.9	30°	2507.7	2480.5	1736.2	823.0	589.7	591.1	624.1	624.1	624.1	637.0
2377.5	32.5°	2565.0	2450.5	1488.6	601.2	508.1	553.9	545.3	542.5	536.8	521.0
2443.3	35°	2600.8	2368.9	1175.1	445.2	456.6	508.1	505.3	460.9	386.5	349.2
2610.8	37.5°	2675.2	2327.4	864.5	343.5	426.5	485.2	469.5	362.1	280.5	244.8
2818.3	40°	2835.5	2300.2	598.3	300.6	406.5	473.8	419.4	309.2	214.7	151.7
3139.0	42.5°	3031.6	2301.6	406.5	283.4	407.9	498.1	403.6	264.8	151.7	121.7
3566.9	45°	3295.0	2280.1	279.1	283.4	433.7	538.2	413.7	240.5	147.4	154.6
4103.7	47.5°	3578.4	2298.7	207.5	257.6	438.0	539.6	377.9	236.2	141.7	178.9
4687.7	50°	3909.0	2317.4	171.8	237.6	439.4	522.4	347.8	230.4	147.4	188.9
5357.5	52.5°	4249.7	2376.0	146.0	224.7	456.6	515.3	347.8	239.0	147.4	164.6
6210.6	55°	4757.8	2526.3	210.4	280.5	519.6	562.5	428.0	334.9	206.1	211.8
7027.9	57.5°	5318.9	2680.9	234.7	294.9	533.9	506.7	460.9	369.3	217.6	219.0
7663.5	60°	5688.2	2686.6	233.3	287.7	499.5	438.0	450.9	389.3	221.9	187.5
8057.1	62.5°	5835.6	2512.0	243.3	287.7	465.2	409.4	462.3	419.4	229.0	234.7
8168.7	65°	5668.1	2151.3	234.7	257.6	409.4	366.4	465.2	425.1	250.5	236.2
7968.3	67°	5406.2	1853.6	239.0	244.8	380.7	347.8	489.5	446.6	290.6	283.4
7863.8	67.5°	5331.8	1774.9	237.6	237.6	370.7	342.1	495.2	446.6	296.3	293.4
6940.6	70°	4699.1	1438.5	243.3	234.7	327.8	324.9	526.7	470.9	340.7	343.5
5098.5	72.5°	3576.9	1090.7	241.9	234.7	284.8	310.6	531.0	486.7	370.7	343.5
2855.5	75°	2032.5	652.7	213.3	204.7	224.7	270.5	496.7	463.8	360.7	307.7
1140.8	77.5°	840.2	336.4	196.1	184.6	186.1	220.4	413.7	432.3	343.5	261.9
380.7	80°	313.5	201.8	157.4	147.4	143.1	161.7	294.9	345.0	293.4	214.7
167.5	82.5°	163.2	126.0	107.4	107.4	97.3	103.1	158.9	229.0	221.9	147.4
67.3	85°	83.0	71.6	61.5	60.1	54.4	48.7	80.2	136.0	127.4	81.6
30.1	87.5°	44.4	40.1	25.8	24.3	20.0	12.9	14.3	27.2	44.4	35.8
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>
1899.4
2098.4
2168.5
2028.2
1782.0
1540.1
1261.0
1063.5
941.8
876.0
817.3
744.3
651.3
512.4
366.4
243.3
147.4
118.8
157.4
199.0
219.0
168.9
223.3
211.8
193.2
237.6
231.9
279.1
287.7
317.8
304.9
274.8
247.6
196.1
115.9
67.3
25.8
0.0

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