

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: P477882

Luminaire Tested: **IFLD-S-SA2E-827-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477882  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-827-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

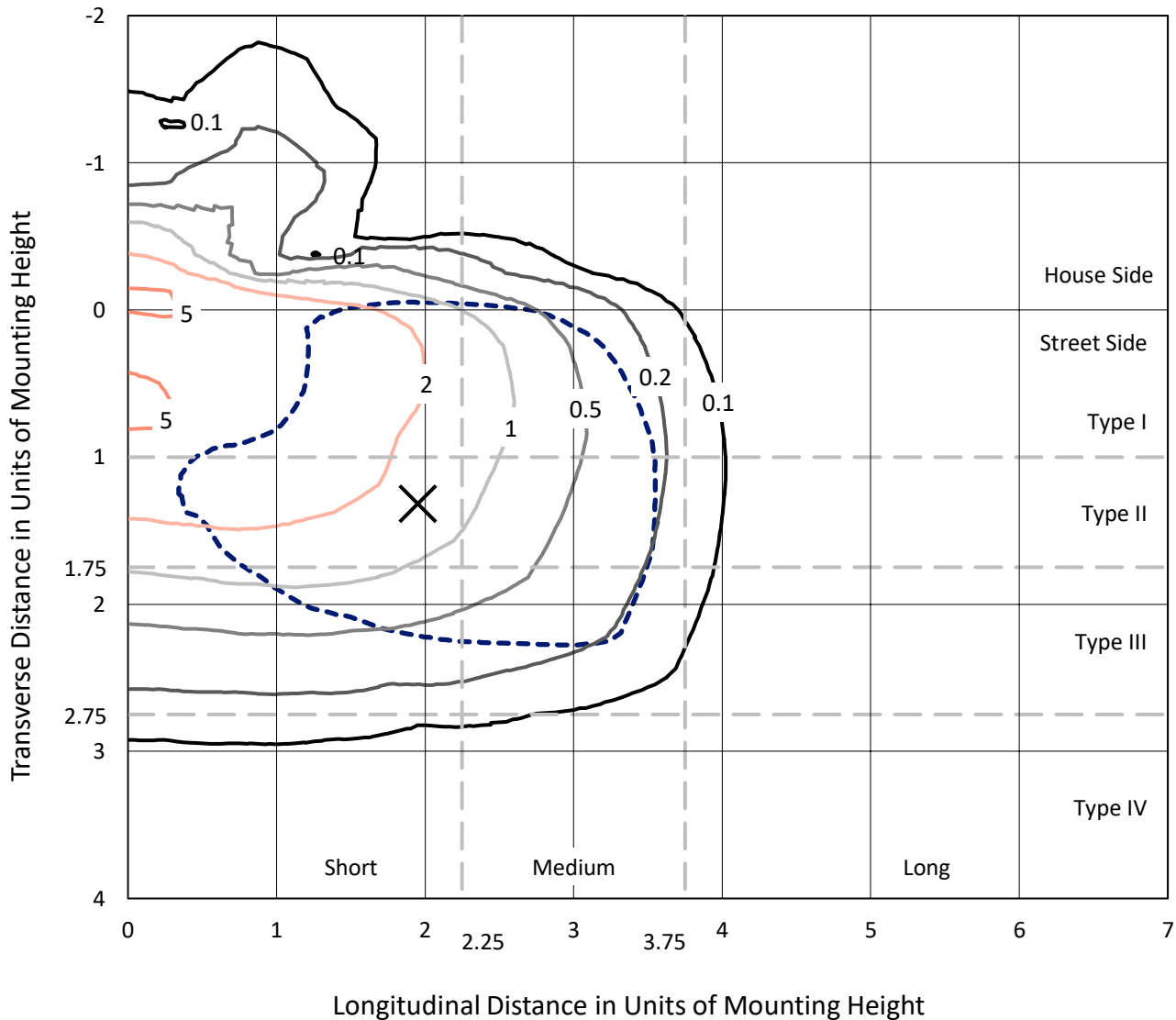
Lumens per Lamp: N/A  
Luminaire Lumens: 13069.3 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2  
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

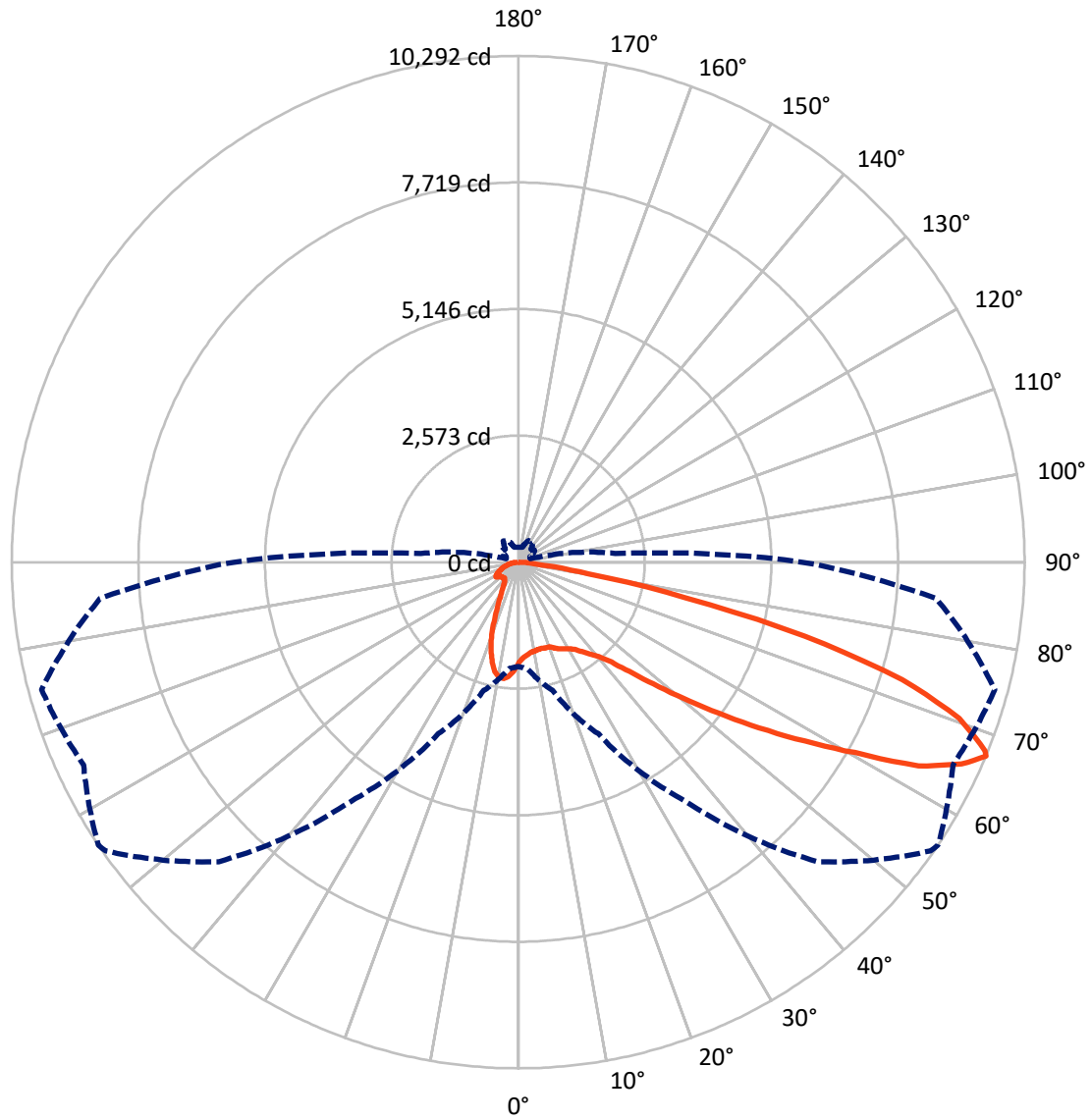
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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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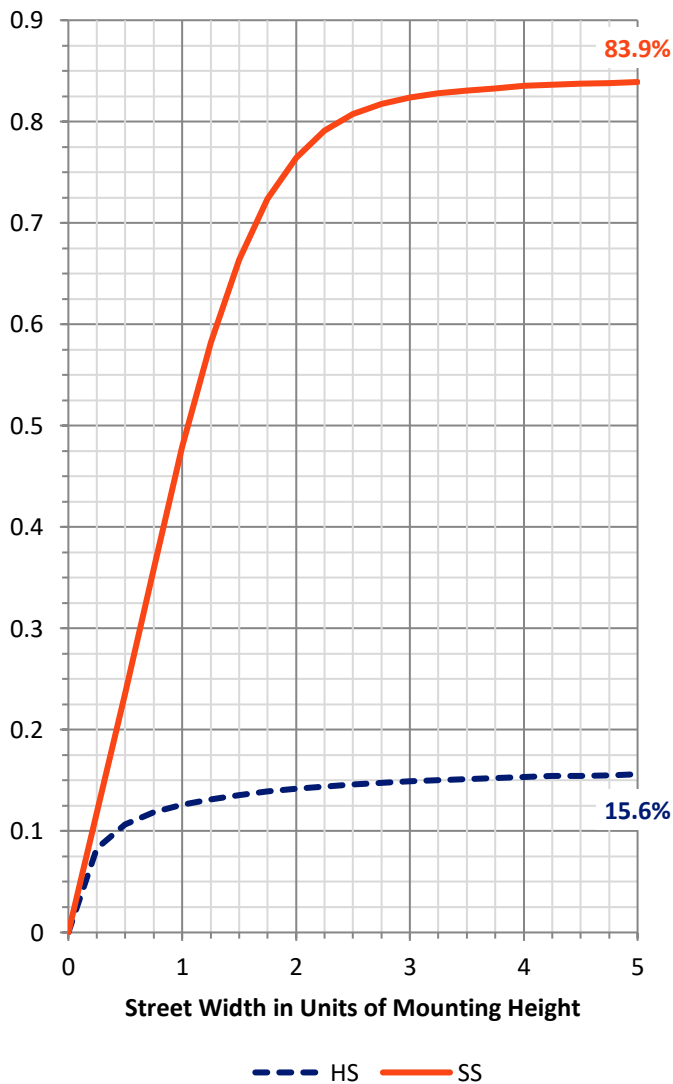
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2069.0	0.0	2069.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	11000.3	0.0	11000.3
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	13069.3	0.0	13069.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.9	1.5
10°-20°	534.5	4.1
20°-30°	838.2	6.4
30°-40°	1196.5	9.2
40°-50°	1805.9	13.8
50°-60°	2874.7	22.0
60°-70°	3675.1	28.1
70°-80°	1791.8	13.7
80°-90°	156.7	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°	13069.3	100.0
0°-180°	13069.3	100.0

**Coefficient of Utilization**

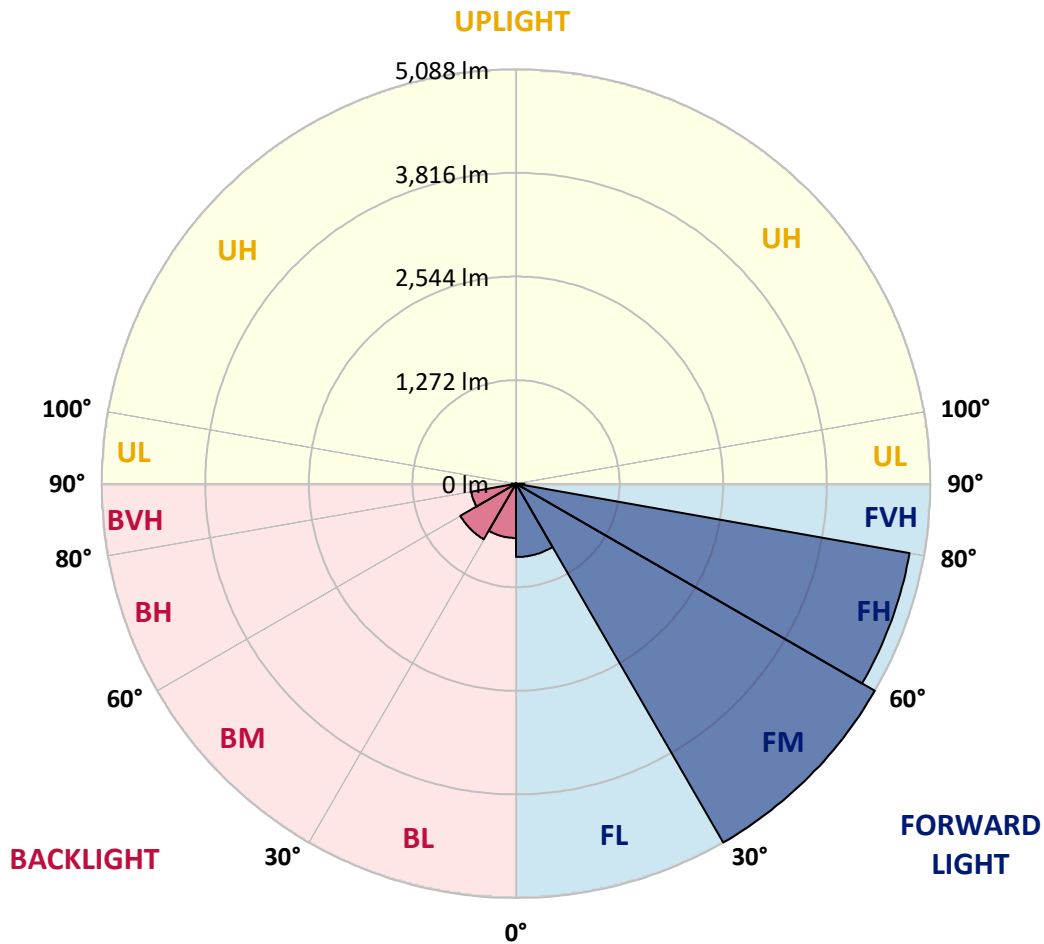


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.6	6.9			
FM (30°-60°)	5087.8	38.9			
FH (60°-80°)	4907.8	37.6			G2/5000
FVH (80°-90°)	104.1	0.8			G2/225
BL (0°-30°)	667.9	5.1	B2/1000		
BM (30°-60°)	789.3	6.0	B1/1000		
BH (60°-80°)	559.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	52.6	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°	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5
2.5°	1868.0	1860.4	1869.6	1860.4	1901.8	1926.3	1933.9	1944.7	1983.0	2019.8
5°	1789.9	1756.2	1793.0	1805.2	1808.3	1849.7	1892.6	1900.2	1920.1	1979.9
7.5°	1659.6	1697.9	1684.2	1720.9	1759.2	1800.6	1871.1	1851.2	1924.7	1981.4
10°	1632.0	1635.1	1650.4	1664.2	1697.9	1751.6	1849.7	1837.4	1912.5	2033.5
12.5°	1659.6	1659.6	1655.0	1644.3	1682.6	1734.7	1812.9	1819.0	1937.0	2048.9
15°	1756.2	1774.6	1725.5	1733.2	1717.9	1734.7	1803.7	1817.5	1946.2	2061.1
17.5°	1992.2	1986.0	1927.8	1846.6	1779.2	1768.4	1815.9	1831.3	1937.0	2096.4
20°	2222.0	2209.8	2108.6	2024.4	1891.0	1828.2	1835.9	1837.4	1952.3	2119.4
22.5°	2478.0	2510.1	2399.8	2228.2	2062.7	1906.4	1875.7	1900.2	1987.6	2131.6
25°	2879.5	2810.5	2715.5	2490.2	2223.6	2027.4	1941.6	1953.9	2021.3	2162.3
27.5°	3169.1	3141.5	2992.9	2810.5	2448.8	2122.4	1976.8	1999.8	2082.6	2160.7
30°	3448.0	3448.0	3357.6	3084.8	2686.4	2281.8	2051.9	2041.2	2053.5	2157.7
32.5°	3774.4	3730.0	3599.7	3418.9	2985.2	2427.4	2111.7	2114.8	2114.8	2214.4
35°	3946.0	4018.1	3930.7	3636.5	3213.5	2669.5	2255.8	2232.8	2215.9	2277.2
37.5°	4197.4	4240.3	4148.3	3975.2	3497.0	2865.7	2382.9	2364.6	2266.5	2326.2
40°	4349.1	4341.4	4338.3	4258.7	3872.5	3097.1	2569.9	2522.4	2390.6	2499.4
42.5°	4434.9	4419.6	4608.1	4559.0	4226.5	3437.3	2804.4	2778.3	2632.7	2807.4
45°	4531.4	4644.8	4799.6	4937.5	4638.7	3915.4	3201.3	3164.5	3034.2	3256.4
47.5°	4615.7	4755.2	4952.9	5100.0	5011.1	4434.9	3691.7	3700.8	3615.0	3843.4
50°	4756.7	4770.5	5038.7	5336.0	5404.9	4914.5	4350.6	4335.3	4297.0	4617.2
52.5°	4713.8	4755.2	5093.8	5473.9	5587.3	5421.8	5058.6	5104.6	5054.0	5457.0
55°	4015.0	4139.1	5060.1	5619.5	6019.4	5994.9	5968.9	5938.2	5935.1	6401.0
57.5°	3697.8	3798.9	4457.9	5780.4	6482.2	6663.1	6831.6	6865.3	6863.8	7426.2
60°	3489.4	3593.6	4214.2	5693.0	6876.1	7538.1	7861.4	7866.0	7856.8	8521.9
62.5°	3081.7	3182.9	3792.8	5214.9	6984.9	8345.7	9065.9	9125.7	8704.3	9465.9
65°	2591.4	2674.1	3212.0	4483.9	6695.2	8859.0	9971.6	9901.1	9418.4	10005.3
67°	2119.4	2174.5	2698.6	3849.5	5938.2	8612.3	10233.6	10291.9	9747.9	10028.3
67.5°	1984.5	2035.1	2530.1	3633.4	5650.1	8425.4	10242.8	10233.6	9754.0	10032.9
70°	1377.7	1399.1	1724.0	2499.4	4162.1	7118.2	9495.0	9516.5	9344.8	9488.9
72.5°	913.3	945.5	1152.4	1575.3	2453.4	5179.7	7936.5	8166.4	8057.6	7780.2
75°	588.5	606.8	754.0	937.9	1207.6	2949.9	5863.1	6016.4	5766.6	4811.9
77.5°	329.5	349.4	455.1	570.1	588.5	1227.5	3293.2	3483.2	2951.5	2044.3
80°	205.3	231.4	343.3	338.7	280.4	450.5	1357.7	1454.3	1180.0	703.4
82.5°	154.8	174.7	265.1	237.5	157.8	200.7	508.8	545.5	432.1	271.2
85°	105.7	133.3	191.6	147.1	82.8	96.5	202.3	217.6	197.7	131.8
87.5°	38.3	56.7	99.6	73.6	36.8	29.1	65.9	73.6	70.5	59.8
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°
2033.5	0°	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5	2033.5
2051.9	2.5°	2081.1	2102.5	2113.2	2176.1	2202.1	2197.5	2203.7	2212.8	2222.0	2234.3
2078.0	5°	2097.9	2163.8	2199.1	2272.6	2321.6	2300.2	2327.8	2320.1	2309.4	2307.9
2125.5	7.5°	2153.1	2237.4	2343.1	2363.0	2384.5	2330.8	2284.9	2222.0	2206.7	2153.1
2165.3	10°	2251.2	2320.1	2448.8	2456.5	2361.5	2223.6	2120.9	1990.6	1989.1	1911.0
2226.6	12.5°	2344.6	2422.8	2527.0	2482.6	2255.8	2067.3	1900.2	1757.7	1697.9	1658.1
2263.4	15°	2402.9	2531.6	2586.8	2395.2	2070.3	1815.9	1599.9	1446.6	1385.3	1356.2
2309.4	17.5°	2456.5	2635.8	2611.3	2242.0	1842.0	1557.0	1299.5	1166.2	1149.3	1127.9
2382.9	20°	2530.1	2674.1	2523.9	2042.7	1583.0	1222.9	1058.9	994.6	1009.9	1019.1
2390.6	22.5°	2599.0	2694.0	2413.6	1825.1	1250.5	968.5	887.3	901.1	924.1	954.7
2409.0	25°	2629.7	2726.2	2264.9	1524.8	951.6	815.3	796.9	819.9	858.2	859.7
2435.0	27.5°	2649.6	2703.2	2085.7	1232.1	752.4	712.6	740.2	757.0	761.6	780.0
2490.2	30°	2684.8	2655.7	1858.9	881.2	631.4	632.9	668.1	668.1	668.1	681.9
2545.4	32.5°	2746.1	2623.5	1593.7	643.6	544.0	593.1	583.9	580.8	574.7	557.8
2615.9	35°	2784.4	2536.2	1258.1	476.6	488.8	544.0	541.0	493.4	413.8	373.9
2795.2	37.5°	2864.1	2491.7	925.6	367.8	456.7	519.5	502.6	387.7	300.4	262.0
3017.4	40°	3035.8	2462.6	640.6	321.8	435.2	507.2	449.0	331.0	229.9	162.4
3360.6	42.5°	3245.7	2464.2	435.2	303.4	436.7	533.3	432.1	283.5	162.4	130.3
3818.8	45°	3527.7	2441.2	298.8	303.4	464.3	576.2	442.9	257.5	157.8	165.5
4393.5	47.5°	3831.1	2461.1	222.2	275.8	468.9	577.7	404.6	252.9	151.7	191.6
5018.7	50°	4185.1	2481.0	183.9	254.4	470.5	559.3	372.4	246.7	157.8	202.3
5735.9	52.5°	4549.8	2543.9	156.3	240.6	488.8	551.7	372.4	255.9	157.8	176.2
6649.3	55°	5093.8	2704.8	225.3	300.4	556.3	602.2	458.2	358.6	220.7	226.8
7524.3	57.5°	5694.6	2870.3	251.3	315.7	571.6	542.5	493.4	395.4	232.9	234.5
8204.7	60°	6089.9	2876.4	249.8	308.0	534.8	468.9	482.7	416.8	237.5	200.7
8626.1	62.5°	6247.8	2689.4	260.5	308.0	498.0	438.3	495.0	449.0	245.2	251.3
8745.6	65°	6068.5	2303.3	251.3	275.8	438.3	392.3	498.0	455.1	268.2	252.9
8531.1	67°	5788.0	1984.5	255.9	262.0	407.6	372.4	524.1	478.1	311.1	303.4
8419.2	67.5°	5708.3	1900.2	254.4	254.4	396.9	366.3	530.2	478.1	317.2	314.2
7430.8	70°	5031.0	1540.1	260.5	251.3	350.9	347.9	563.9	504.2	364.7	367.8
5458.6	72.5°	3829.6	1167.7	259.0	251.3	305.0	332.5	568.5	521.0	396.9	367.8
3057.2	75°	2176.1	698.8	228.3	219.1	240.6	289.6	531.8	496.5	386.2	329.5
1221.4	77.5°	899.5	360.1	209.9	197.7	199.2	236.0	442.9	462.8	367.8	280.4
407.6	80°	335.6	216.1	168.6	157.8	153.2	173.2	315.7	369.3	314.2	229.9
179.3	82.5°	174.7	134.9	114.9	114.9	104.2	110.3	170.1	245.2	237.5	157.8
72.0	85°	88.9	76.6	65.9	64.4	58.2	52.1	85.8	145.6	136.4	87.3
32.2	87.5°	47.5	42.9	27.6	26.1	21.5	13.8	15.3	29.1	47.5	38.3
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>
2033.5
2246.6
2321.6
2171.5
1907.9
1648.9
1350.1
1138.6
1008.3
937.9
875.0
796.9
697.3
548.6
392.3
260.5
157.8
127.2
168.6
213.0
234.5
180.8
239.1
226.8
206.9
254.4
248.3
298.8
308.0
340.2
326.4
294.2
265.1
209.9
124.1
72.0
27.6
0.0

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