

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: P477488

Luminaire Tested: **IFLD-S-SA2A-827-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477488  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

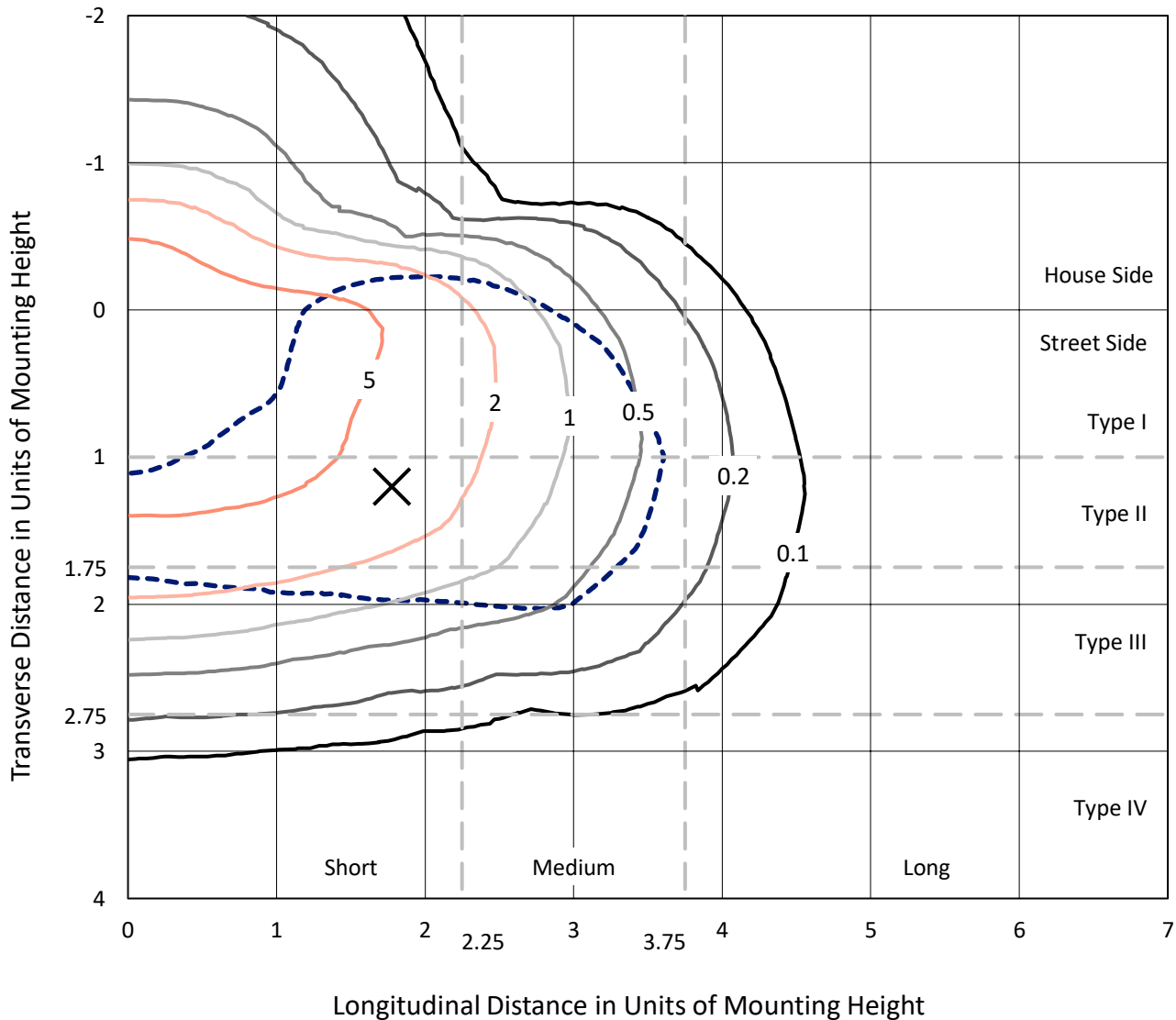
Lumens per Lamp: N/A  
Luminaire Lumens: 6912.3 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

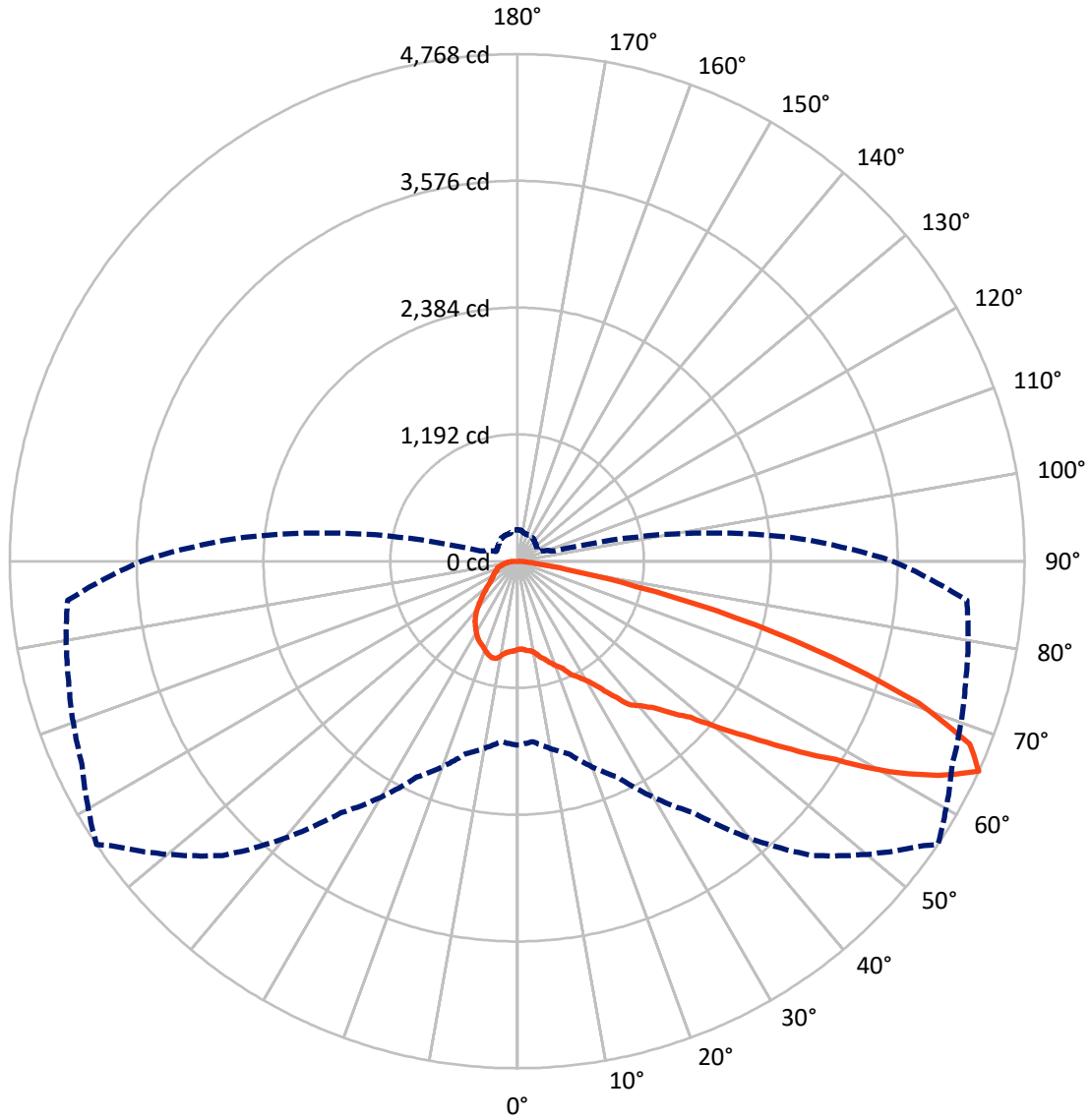
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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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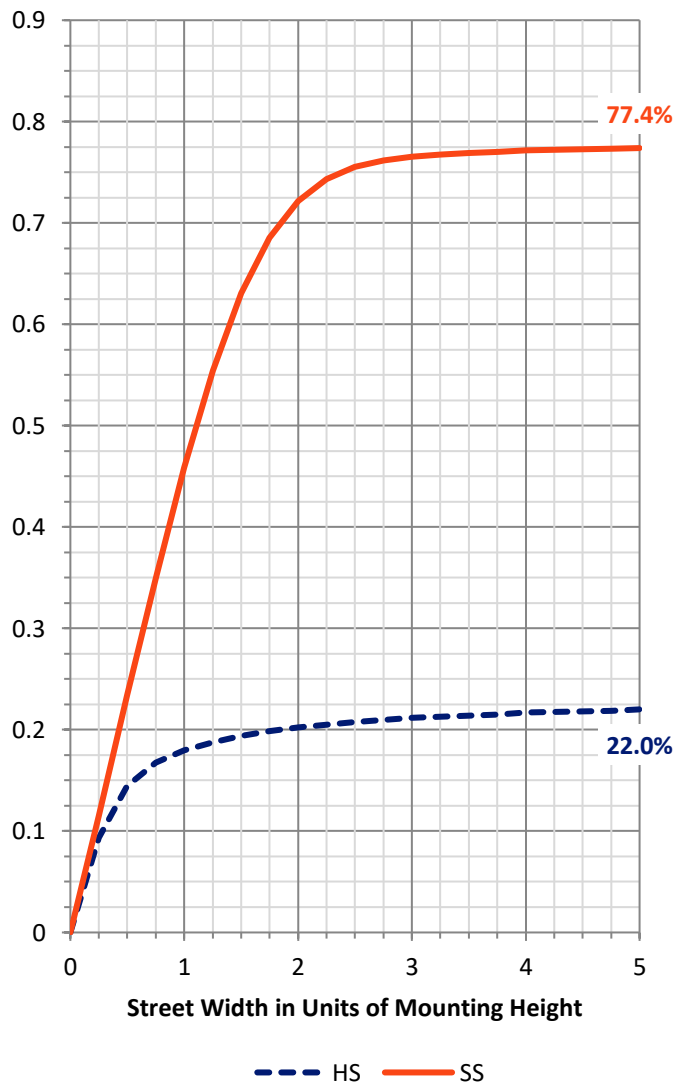
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1550.2	0.0	1550.2
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	5362.1	0.0	5362.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	6912.3	0.0	6912.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	1.2
10°-20°	267.0	3.9
20°-30°	475.4	6.9
30°-40°	711.8	10.3
40°-50°	1054.7	15.3
50°-60°	1625.1	23.5
60°-70°	1839.8	26.6
70°-80°	763.5	11.0
80°-90°	92.8	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°	6912.3	100.0
0°-180°	6912.3	100.0

**Coefficient of Utilization**

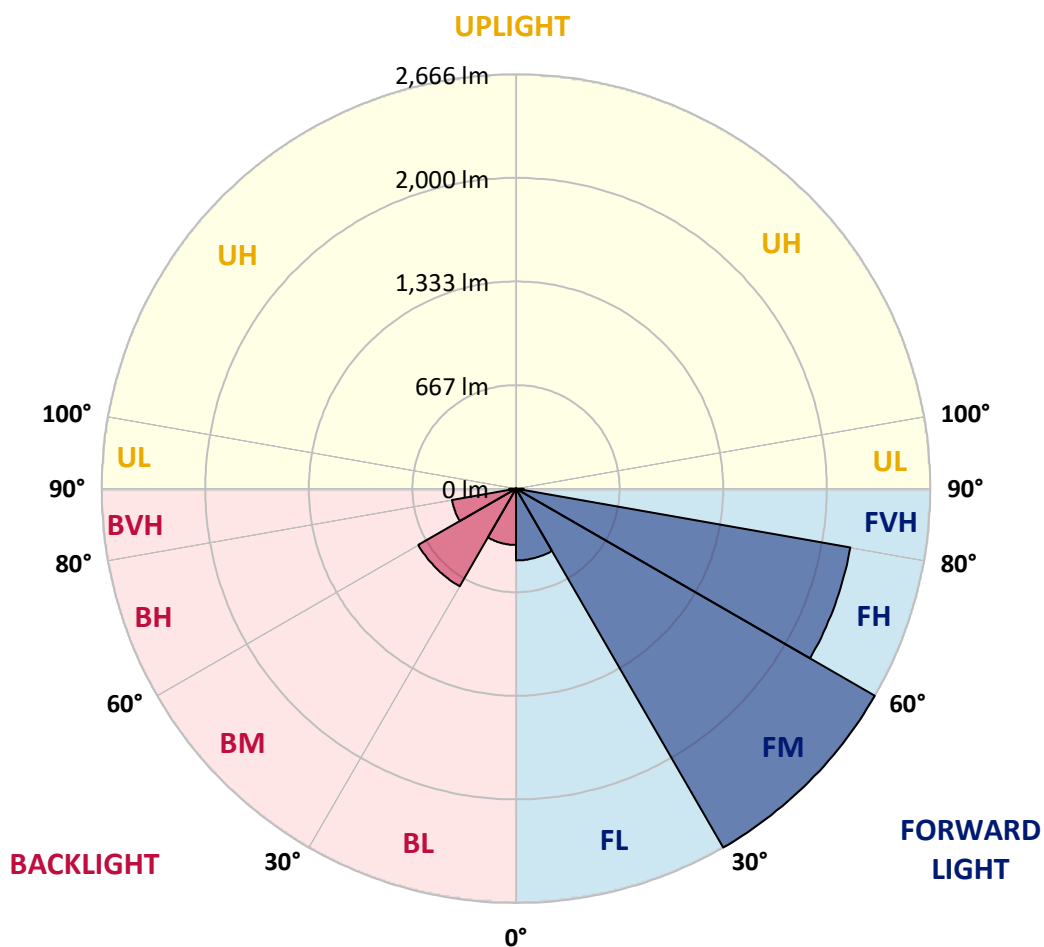


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.9	6.7			
FM (30°-60°)	2666.5	38.6			
FH (60°-80°)	2184.8	31.6			G2/5000
FVH (80°-90°)	48.9	0.7			G1/100
BL (0°-30°)	362.6	5.2	B1/500		
BM (30°-60°)	725.2	10.5	B1/1000		
BH (60°-80°)	418.6	6.1	B1/500		G1/500
BVH (80°-90°)	43.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7
2.5°	808.0	812.3	809.4	818.1	825.3	825.3	831.1	826.8	832.6	840.5
5°	834.7	817.4	826.8	831.1	828.9	832.6	826.8	841.2	831.8	847.0
7.5°	841.2	847.8	855.7	848.5	855.0	851.4	852.1	849.9	844.9	857.2
10°	889.0	879.6	897.7	886.8	885.4	883.9	881.0	870.2	882.5	883.2
12.5°	944.0	935.3	934.6	925.9	937.5	916.5	920.8	915.0	917.2	920.1
15°	983.7	980.1	996.8	986.6	971.4	962.0	972.2	956.3	964.2	962.8
17.5°	1062.6	1061.9	1049.6	1032.9	1024.3	1010.5	1008.3	1001.8	1007.6	1004.7
20°	1117.6	1125.5	1127.7	1108.2	1074.9	1059.7	1056.1	1051.0	1057.5	1055.4
22.5°	1201.5	1189.2	1198.6	1164.6	1152.3	1116.1	1103.1	1095.9	1127.0	1119.0
25°	1255.0	1268.0	1258.6	1247.0	1219.6	1174.7	1165.3	1181.2	1193.5	1184.8
27.5°	1375.8	1362.8	1354.1	1319.4	1301.3	1254.3	1243.4	1237.6	1240.5	1245.6
30°	1467.7	1474.9	1455.4	1430.8	1385.2	1337.5	1312.1	1307.1	1297.0	1288.3
32.5°	1598.6	1587.7	1576.2	1560.2	1521.2	1458.3	1433.7	1414.9	1384.5	1344.0
35°	1661.5	1692.6	1683.9	1641.3	1611.6	1587.7	1580.5	1551.6	1526.3	1462.6
37.5°	1766.4	1779.4	1767.1	1753.4	1739.6	1714.3	1705.6	1713.6	1663.7	1558.8
40°	1834.4	1861.9	1887.2	1848.9	1846.0	1851.0	1797.5	1788.1	1685.4	1630.4
42.5°	1973.3	1984.8	1989.9	1988.5	2005.1	2005.1	1903.1	1882.9	1809.8	1765.0
45°	2157.0	2166.4	2184.5	2197.5	2178.7	2188.1	2042.7	2034.8	1969.7	1961.0
47.5°	2316.1	2338.6	2379.1	2417.4	2442.0	2410.2	2251.0	2194.6	2178.0	2230.1
50°	2455.0	2428.3	2523.0	2562.1	2669.9	2722.7	2481.1	2458.6	2431.9	2531.7
52.5°	2468.8	2504.9	2638.7	2716.9	2938.9	3036.6	2763.2	2753.8	2721.2	2836.2
55°	2567.1	2562.8	2697.3	2866.6	3130.6	3294.8	3130.6	3124.8	3053.9	3163.2
57.5°	2550.5	2594.6	2701.0	2937.5	3303.5	3571.9	3556.7	3516.9	3417.8	3506.8
60°	2494.1	2505.7	2635.1	2935.3	3404.0	3856.1	4016.7	4024.7	3822.1	3893.0
62.5°	2174.4	2201.1	2365.3	2704.6	3332.4	4052.2	4465.9	4437.7	4275.7	4194.7
65°	1729.5	1702.7	1873.5	2240.2	2886.9	3913.3	4662.7	4767.5	4512.9	4364.6
67.5°	1060.4	1053.9	1218.1	1541.4	2159.9	3330.3	4505.7	4587.4	4447.1	4328.5
70°	546.1	529.5	632.2	860.1	1357.7	2443.4	3921.2	4001.5	4135.3	3882.2
72.5°	254.6	251.0	306.0	423.2	691.5	1436.6	3036.6	3094.5	3376.6	3273.1
75°	149.7	151.9	183.0	221.3	337.1	677.0	2015.2	2127.3	2433.3	2358.8
77.5°	112.1	112.1	130.2	154.1	196.7	261.8	994.6	1142.9	1422.8	1279.6
80°	82.5	83.9	99.8	115.7	136.7	135.3	394.9	462.9	652.5	557.7
82.5°	64.4	66.5	77.4	86.1	96.2	81.7	162.0	174.3	268.4	213.4
85°	44.8	46.3	60.8	58.6	58.6	45.6	67.3	70.9	106.3	101.3
87.5°	10.9	12.3	29.7	32.6	24.6	13.7	21.0	23.9	38.3	44.1
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°
829.7	0°	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7	829.7
844.1	2.5°	833.3	836.2	848.5	842.0	845.6	830.4	842.7	832.6	841.2	836.9
850.6	5°	856.4	849.9	857.2	852.1	852.1	857.9	866.6	860.1	873.1	867.3
855.7	7.5°	865.8	866.6	870.9	871.6	868.0	886.1	886.8	884.6	896.9	894.1
890.4	10°	889.0	889.7	897.7	902.0	898.4	904.9	897.7	891.9	891.2	888.3
917.9	12.5°	925.9	933.1	931.7	935.3	936.0	908.5	891.9	863.7	860.1	863.7
958.4	15°	959.9	957.0	958.4	965.7	935.3	891.2	861.5	837.6	839.1	839.8
1011.2	17.5°	1000.4	1002.6	1004.7	971.4	915.8	863.7	837.6	837.6	830.4	833.3
1048.1	20°	1046.7	1038.0	1019.2	972.2	881.8	831.8	823.9	823.9	815.2	809.4
1087.9	22.5°	1082.8	1065.5	1037.3	949.7	851.4	819.5	800.0	786.3	776.1	764.6
1132.0	25°	1106.0	1096.6	1041.6	926.6	828.9	787.0	758.1	737.1	724.1	708.9
1166.7	27.5°	1141.4	1123.3	1053.9	899.8	804.4	754.4	709.6	677.0	652.5	636.5
1219.6	30°	1189.2	1163.1	1045.2	861.5	766.7	698.0	645.2	603.3	575.1	562.0
1269.5	32.5°	1228.2	1194.2	1038.0	826.8	724.8	640.9	570.7	528.0	512.1	495.5
1353.4	35°	1302.7	1235.5	1032.9	807.2	687.2	583.7	510.0	473.1	452.8	428.2
1403.3	37.5°	1359.9	1307.1	1020.6	766.7	638.7	528.0	463.7	430.4	400.0	374.0
1519.0	40°	1449.6	1406.9	1021.4	709.6	581.6	480.3	427.5	392.8	354.4	332.0
1690.4	42.5°	1618.1	1505.3	1025.7	664.0	517.2	441.2	394.9	353.7	315.4	296.6
1885.8	45°	1825.0	1640.5	998.9	622.8	451.4	404.3	355.9	314.7	290.1	276.3
2151.2	47.5°	2063.0	1772.9	962.8	545.4	396.4	365.3	319.7	295.8	277.8	269.8
2493.4	50°	2329.2	1962.4	952.6	474.5	353.7	332.0	302.4	284.3	272.0	262.6
2878.9	52.5°	2672.0	2183.0	932.4	401.5	316.8	305.3	295.8	283.5	272.7	264.7
3238.4	55°	2999.7	2427.5	910.7	341.4	290.8	292.2	297.3	286.4	277.0	264.7
3641.3	57.5°	3368.6	2677.1	830.4	297.3	271.3	285.7	295.8	283.5	274.1	264.7
4053.6	60°	3596.5	2817.4	673.4	259.0	253.9	273.4	287.2	274.1	264.0	267.6
4243.1	62.5°	3689.0	2743.6	507.8	235.1	241.6	256.8	273.4	268.4	261.1	274.9
4241.0	65°	3531.4	2573.6	363.1	214.8	225.0	240.1	261.1	266.9	269.1	295.8
3895.2	67.5°	3142.2	2240.9	266.9	198.2	207.6	230.0	269.8	279.2	277.8	311.0
3268.8	70°	2514.3	1752.7	208.3	184.5	201.1	238.0	282.1	282.1	272.0	311.0
2493.4	72.5°	1829.3	1235.5	179.4	168.5	184.5	218.4	280.7	279.9	266.9	284.3
1587.7	75°	1107.4	719.0	158.4	152.6	158.4	187.3	268.4	264.0	245.9	244.5
763.8	77.5°	551.9	361.7	129.5	135.3	138.2	157.0	235.8	242.3	217.7	211.9
301.6	80°	232.9	157.7	107.8	116.5	116.5	132.4	196.0	200.4	180.8	170.0
119.4	82.5°	106.3	90.4	91.9	101.3	94.8	102.7	155.5	160.6	146.8	128.8
50.6	85°	44.8	51.4	70.2	79.6	70.2	66.5	107.1	112.8	95.5	79.6
21.7	87.5°	20.3	28.2	44.1	57.9	35.4	31.1	57.1	59.3	47.7	35.4
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>
829.7
828.9
859.3
889.7
888.3
865.1
849.9
834.0
800.7
758.1
711.8
643.8
569.3
494.8
426.0
374.7
334.2
298.0
279.2
268.4
264.0
264.0
264.0
264.0
264.7
271.3
295.8
313.2
304.5
274.1
241.6
208.3
166.4
125.9
80.3
33.3
0.0

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