

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: P477527

Luminaire Tested: **IFLD-S-SA2A-830-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477527  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-830-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

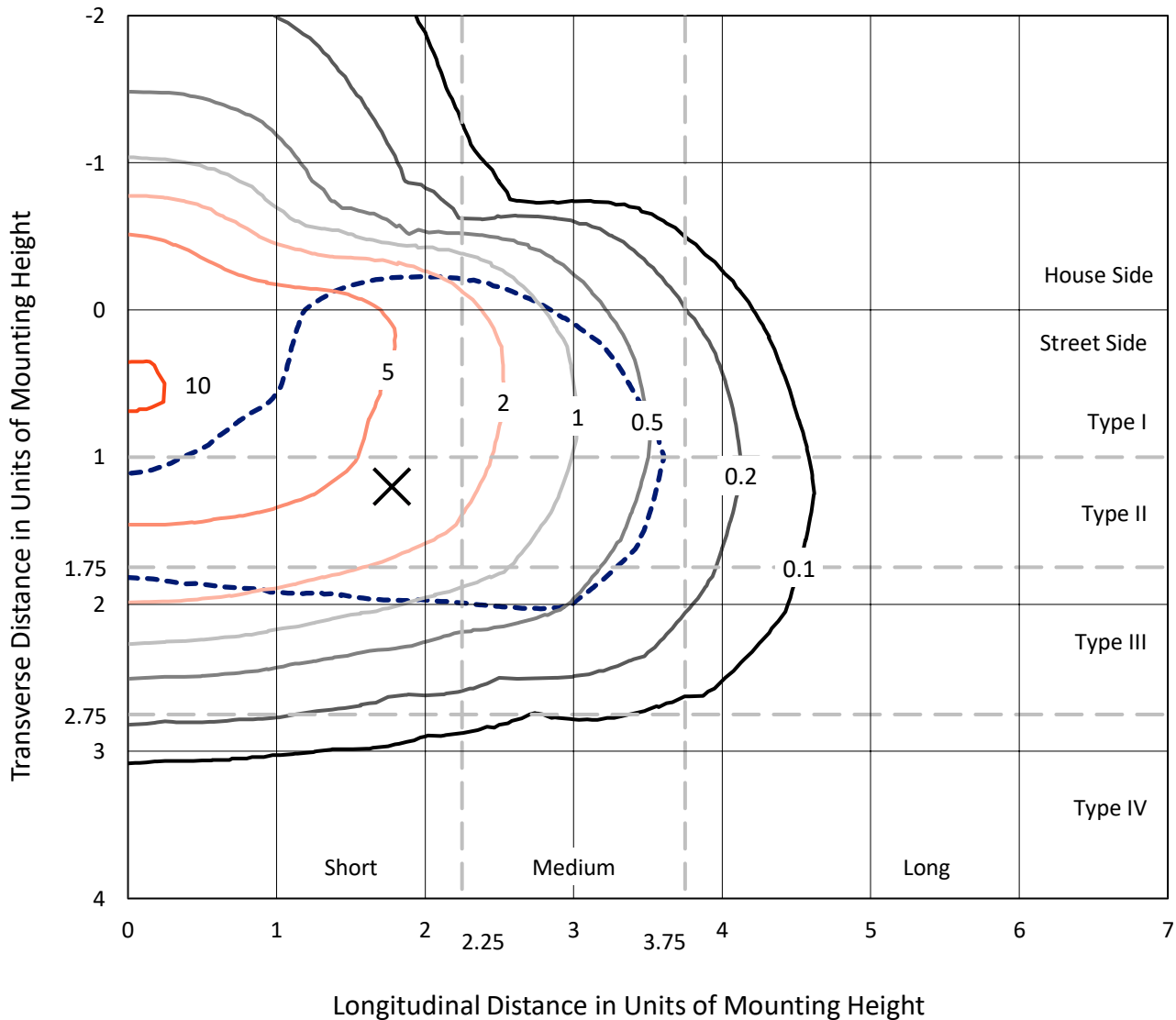
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7471.8 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: B1 - U0 - G2  
  
Input Watts (W): 63.8  
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

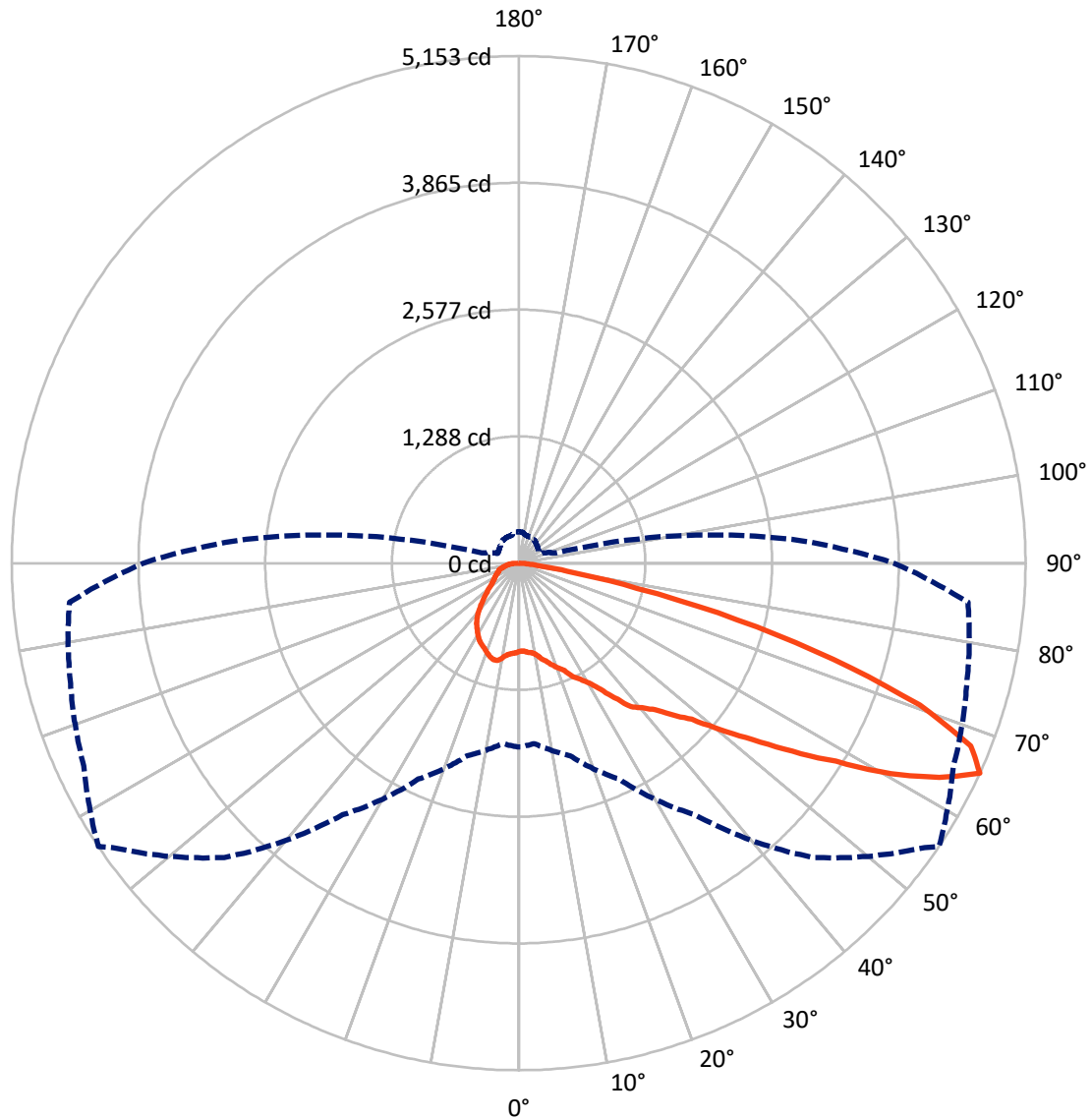
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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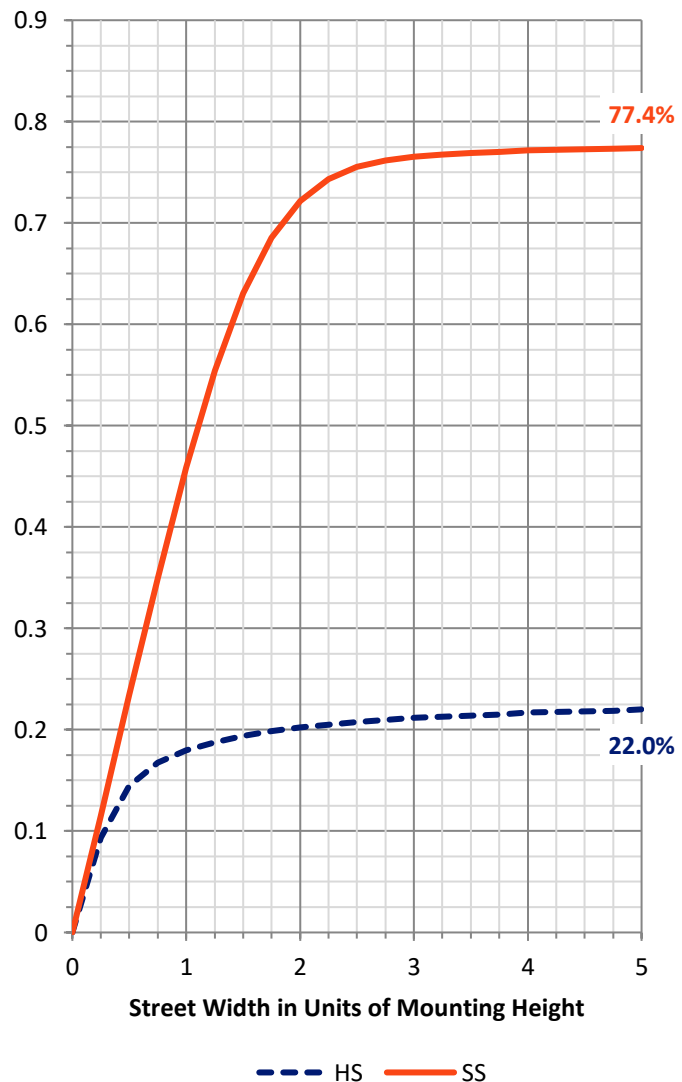
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1675.7	0.0	1675.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	5796.1	0.0	5796.1
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	7471.8	0.0	7471.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	1.2
10°-20°	288.6	3.9
20°-30°	513.8	6.9
30°-40°	769.5	10.3
40°-50°	1140.0	15.3
50°-60°	1756.6	23.5
60°-70°	1988.7	26.6
70°-80°	825.3	11.0
80°-90°	100.3	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°	7471.8	100.0
0°-180°	7471.8	100.0

**Coefficient of Utilization**

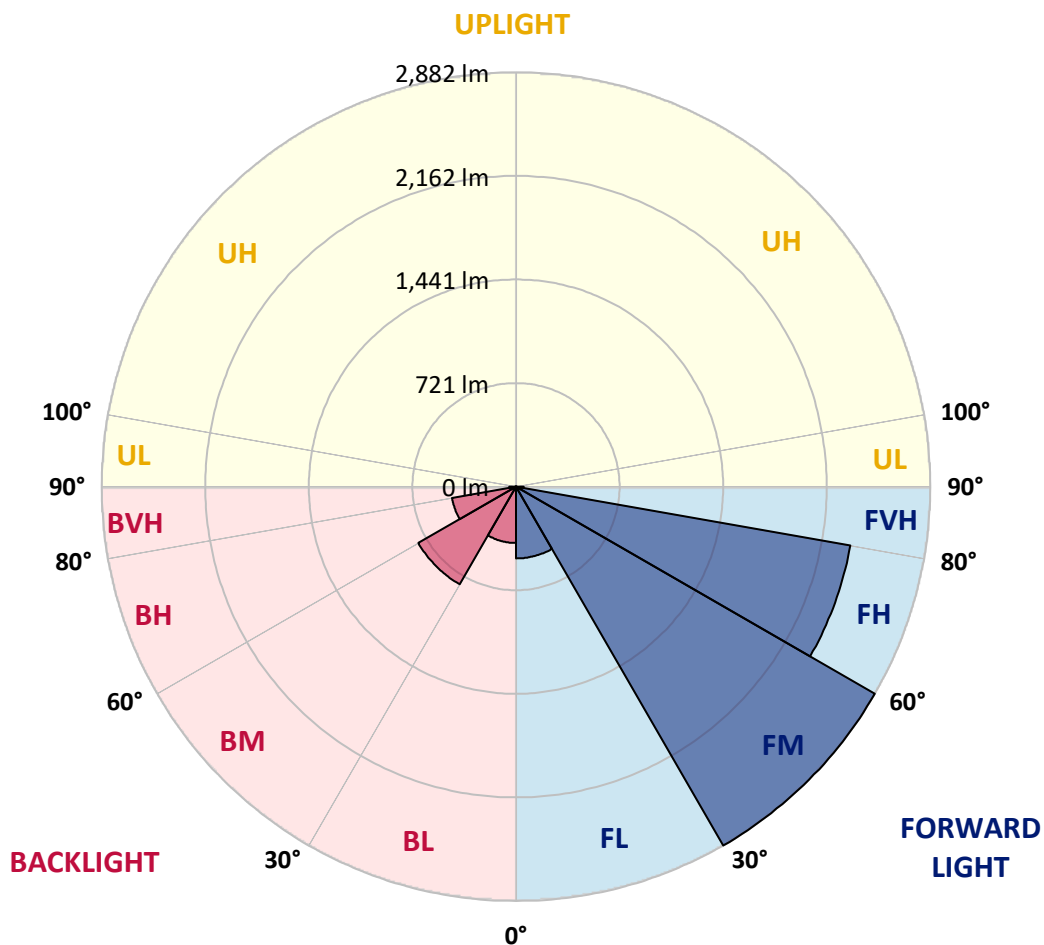


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.3	6.7			
FM (30°-60°)	2882.3	38.6			
FH (60°-80°)	2361.6	31.6			G2/5000
FVH (80°-90°)	52.9	0.7			G1/100
BL (0°-30°)	392.0	5.2	B1/500		
BM (30°-60°)	783.9	10.5	B1/1000		
BH (60°-80°)	452.5	6.1	B1/500		G1/500
BVH (80°-90°)	47.4	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°	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
2.5°	873.4	878.1	874.9	884.3	892.1	892.1	898.4	893.7	900.0	908.6
5°	902.3	883.5	893.7	898.4	896.0	900.0	893.7	909.3	899.2	915.6
7.5°	909.3	916.4	925.0	917.2	924.2	920.3	921.1	918.7	913.2	926.5
10°	960.9	950.8	970.3	958.6	957.0	955.5	952.3	940.6	953.9	954.7
12.5°	1020.4	1011.0	1010.2	1000.8	1013.3	990.7	995.3	989.1	991.4	994.6
15°	1063.4	1059.5	1077.4	1066.5	1050.1	1039.9	1050.9	1033.7	1042.3	1040.7
17.5°	1148.6	1147.8	1134.5	1116.5	1107.2	1092.3	1090.0	1082.9	1089.2	1086.0
20°	1208.0	1216.6	1219.0	1197.9	1161.9	1145.5	1141.6	1136.1	1143.1	1140.8
22.5°	1298.7	1285.4	1295.6	1258.8	1245.6	1206.5	1192.4	1184.6	1218.2	1209.6
25°	1356.6	1370.7	1360.5	1348.0	1318.3	1269.8	1259.6	1276.8	1290.1	1280.7
27.5°	1487.2	1473.1	1463.7	1426.2	1406.6	1355.8	1344.1	1337.8	1340.9	1346.4
30°	1586.5	1594.3	1573.2	1546.6	1497.3	1445.7	1418.3	1412.9	1401.9	1392.5
32.5°	1728.0	1716.2	1703.7	1686.5	1644.3	1576.3	1549.7	1529.4	1496.5	1452.8
35°	1796.0	1829.6	1820.2	1774.1	1742.1	1716.2	1708.4	1677.2	1649.8	1581.0
37.5°	1909.4	1923.4	1910.2	1895.3	1880.4	1853.1	1843.7	1852.3	1798.3	1685.0
40°	1982.9	2012.6	2040.0	1998.5	1995.4	2000.9	1943.0	1932.8	1821.8	1762.4
42.5°	2133.0	2145.5	2151.0	2149.4	2167.4	2167.4	2057.2	2035.3	1956.3	1907.8
45°	2331.6	2341.8	2361.3	2375.4	2355.1	2365.2	2208.1	2199.5	2129.1	2119.7
47.5°	2503.6	2527.8	2571.6	2613.1	2639.7	2605.3	2433.2	2372.3	2354.3	2410.6
50°	2653.7	2624.8	2727.2	2769.5	2886.0	2943.0	2681.9	2657.6	2628.7	2736.6
52.5°	2668.6	2707.7	2852.3	2936.8	3176.8	3282.4	2986.8	2976.7	2941.5	3065.8
55°	2774.9	2770.2	2915.7	3098.6	3384.0	3561.5	3384.0	3377.8	3301.1	3419.2
57.5°	2756.9	2804.6	2919.6	3175.3	3570.9	3861.0	3844.6	3801.5	3694.4	3790.6
60°	2696.0	2708.5	2848.4	3172.9	3679.6	4168.3	4341.8	4350.4	4131.5	4208.1
62.5°	2350.4	2379.3	2556.8	2923.5	3602.2	4380.1	4827.4	4796.9	4621.7	4534.2
65°	1869.5	1840.6	2025.1	2421.5	3120.5	4230.0	5040.1	5153.4	4878.2	4717.9
67.5°	1146.3	1139.2	1316.7	1666.2	2334.7	3599.8	4870.4	4958.7	4807.1	4678.8
70°	590.3	572.3	683.4	929.7	1467.6	2641.2	4238.6	4325.4	4470.1	4196.4
72.5°	275.2	271.3	330.7	457.4	747.5	1552.8	3282.4	3344.9	3649.9	3538.1
75°	161.9	164.2	197.8	239.3	364.4	731.8	2178.3	2299.5	2630.3	2549.7
77.5°	121.2	121.2	140.7	166.5	212.7	283.0	1075.1	1235.4	1538.0	1383.2
80°	89.1	90.7	107.9	125.1	147.8	146.2	426.9	500.4	705.3	602.8
82.5°	69.6	71.9	83.7	93.0	104.0	88.4	175.1	188.4	290.1	230.7
85°	48.5	50.0	65.7	63.3	63.3	49.3	72.7	76.6	114.9	109.5
87.5°	11.7	13.3	32.1	35.2	26.6	14.9	22.7	25.8	41.4	47.7
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°
896.8	0°	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
912.5	2.5°	900.7	903.9	917.2	910.1	914.0	897.6	910.9	900.0	909.3	904.6
919.5	5°	925.8	918.7	926.5	921.1	921.1	927.3	936.7	929.7	943.7	937.5
925.0	7.5°	935.9	936.7	941.4	942.2	938.3	957.8	958.6	956.3	969.5	966.4
962.5	10°	960.9	961.7	970.3	975.0	971.1	978.1	970.3	964.1	963.3	960.2
992.2	12.5°	1000.8	1008.6	1007.1	1011.0	1011.8	982.1	964.1	933.6	929.7	933.6
1036.0	15°	1037.6	1034.4	1036.0	1043.8	1011.0	963.3	931.2	905.4	907.0	907.8
1093.1	17.5°	1081.4	1083.7	1086.0	1050.1	989.9	933.6	905.4	905.4	897.6	900.7
1133.0	20°	1131.4	1122.0	1101.7	1050.9	953.1	899.2	890.6	890.6	881.2	874.9
1176.0	22.5°	1170.5	1151.7	1121.2	1026.6	920.3	885.9	864.8	849.9	839.0	826.5
1223.7	25°	1195.5	1185.3	1125.9	1001.6	896.0	850.7	819.4	796.7	782.7	766.3
1261.2	27.5°	1233.8	1214.3	1139.2	972.7	869.5	815.5	767.0	731.8	705.3	688.1
1318.3	30°	1285.4	1257.3	1129.8	931.2	828.8	754.5	697.4	652.1	621.6	607.5
1372.2	32.5°	1327.6	1290.9	1122.0	893.7	783.5	692.8	616.9	570.8	553.6	535.6
1462.9	35°	1408.2	1335.5	1116.5	872.6	742.8	631.0	551.2	511.4	489.5	462.9
1516.9	37.5°	1470.0	1412.9	1103.2	828.8	690.4	570.8	501.2	465.2	432.4	404.2
1642.0	40°	1566.9	1520.8	1104.0	767.0	628.6	519.2	462.1	424.6	383.1	358.9
1827.3	42.5°	1749.1	1627.1	1108.7	717.8	559.1	477.0	426.9	382.3	340.9	320.6
2038.4	45°	1972.7	1773.3	1079.8	673.2	487.9	437.1	384.7	340.1	313.5	298.7
2325.3	47.5°	2229.9	1916.4	1040.7	589.5	428.5	394.9	345.6	319.8	300.2	291.6
2695.2	50°	2517.7	2121.3	1029.7	512.9	382.3	358.9	326.8	307.3	294.0	283.8
3111.9	52.5°	2888.3	2359.7	1007.9	433.9	342.5	330.0	319.8	306.5	294.8	286.2
3500.5	55°	3242.5	2624.0	984.4	369.1	314.3	315.9	321.4	309.6	299.5	286.2
3936.0	57.5°	3641.3	2893.8	897.6	321.4	293.2	308.8	319.8	306.5	296.3	286.2
4381.7	60°	3887.6	3045.5	727.9	279.9	274.4	295.6	310.4	296.3	285.4	289.3
4586.6	62.5°	3987.6	2965.7	548.9	254.1	261.2	277.6	295.6	290.1	282.3	297.1
4584.2	65°	3817.2	2782.0	392.5	232.2	243.2	259.6	282.3	288.5	290.9	319.8
4210.5	67.5°	3396.5	2422.3	288.5	214.2	224.4	248.6	291.6	301.8	300.2	336.2
3533.4	70°	2717.8	1894.5	225.2	199.4	217.4	257.2	304.9	304.9	294.0	336.2
2695.2	72.5°	1977.4	1335.5	193.9	182.2	199.4	236.1	303.4	302.6	288.5	307.3
1716.2	75°	1197.1	777.2	171.2	165.0	171.2	202.5	290.1	285.4	265.8	264.3
825.7	77.5°	596.6	390.9	140.0	146.2	149.3	169.7	254.9	261.9	235.3	229.1
326.0	80°	251.8	170.5	116.5	125.9	125.9	143.1	211.9	216.6	195.5	183.7
129.0	82.5°	114.9	97.7	99.3	109.5	102.4	111.0	168.1	173.6	158.7	139.2
54.7	85°	48.5	55.5	75.8	86.0	75.8	71.9	115.7	122.0	103.2	86.0
23.5	87.5°	21.9	30.5	47.7	62.6	38.3	33.6	61.8	64.1	51.6	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>
896.8
896.0
928.9
961.7
960.2
935.1
918.7
901.5
865.6
819.4
769.4
695.9
615.3
534.8
460.5
405.0
361.2
322.1
301.8
290.1
285.4
285.4
285.4
285.4
286.2
293.2
319.8
338.6
329.2
296.3
261.2
225.2
179.8
136.0
86.8
36.0
0.0

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