

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: P477489

Luminaire Tested: **IFLD-S-SA2B-827-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477489  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-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**

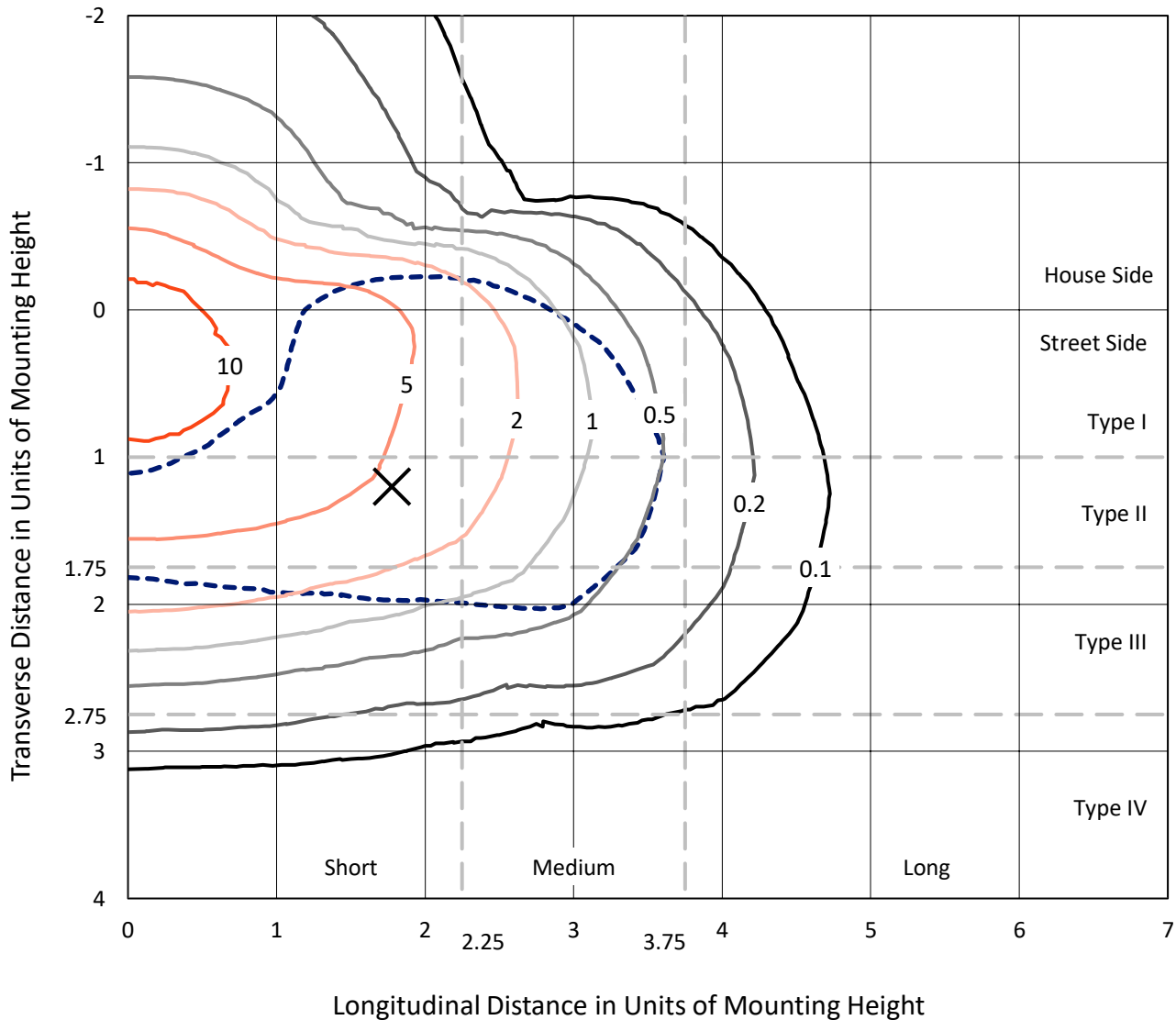
Lumens per Lamp: N/A  
Luminaire Lumens: 8548.6 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4  
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

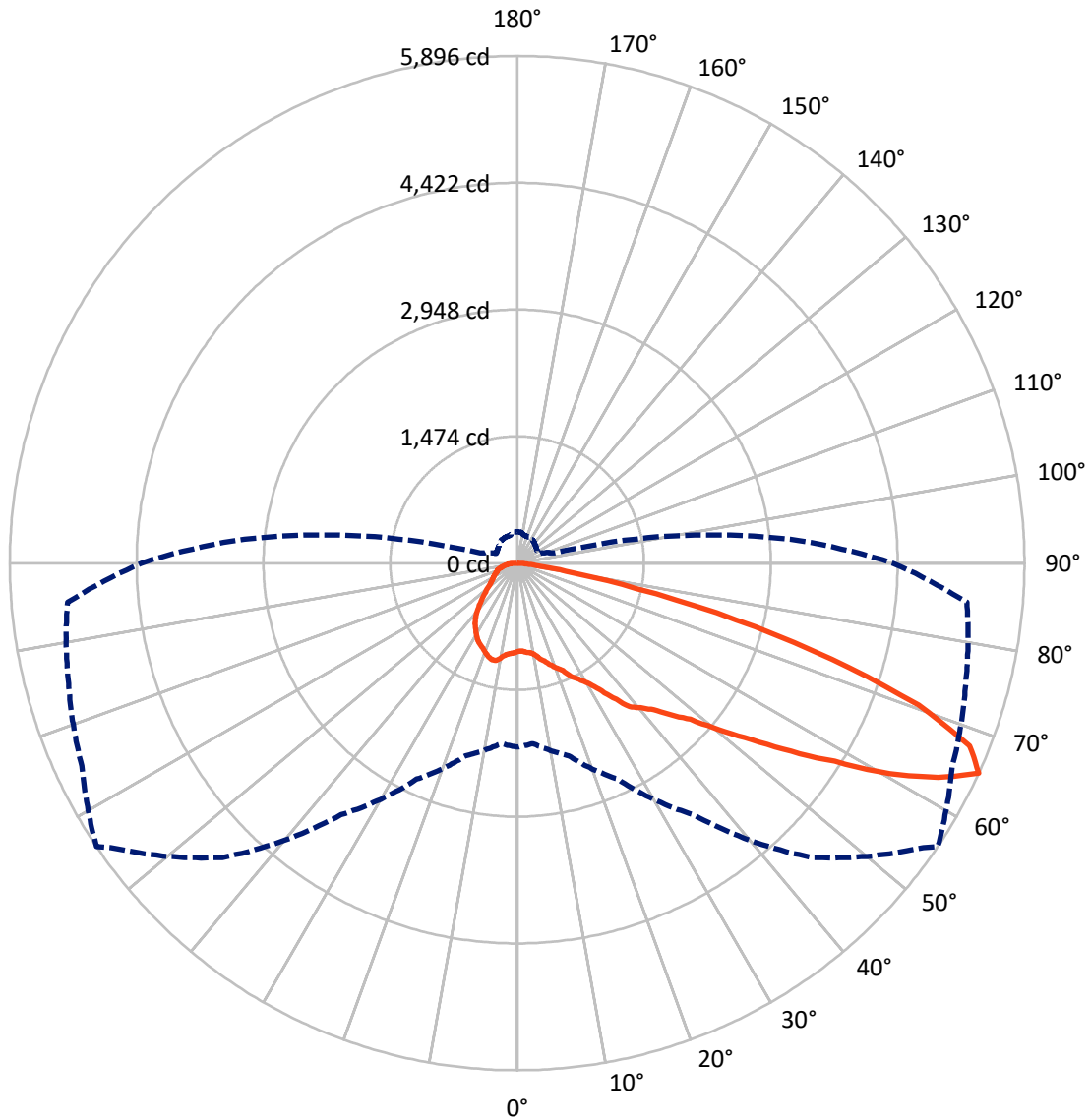
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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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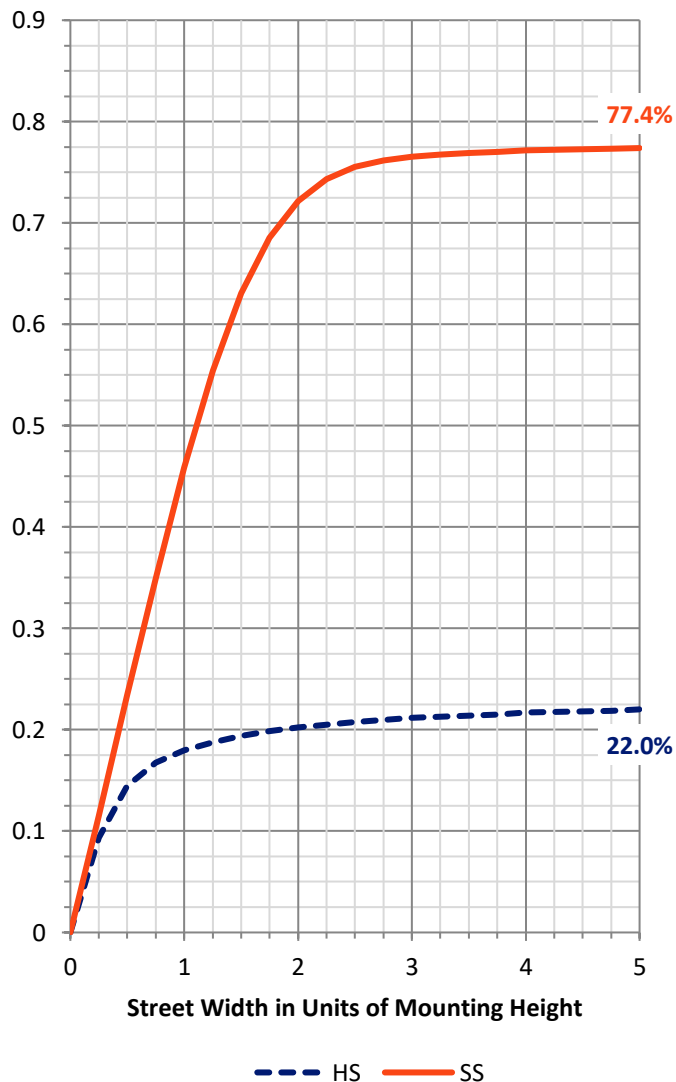
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1917.2	0.0	1917.2
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	6631.5	0.0	6631.5
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	8548.6	0.0	8548.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	1.2
10°-20°	330.2	3.9
20°-30°	587.9	6.9
30°-40°	880.4	10.3
40°-50°	1304.3	15.3
50°-60°	2009.8	23.5
60°-70°	2275.4	26.6
70°-80°	944.3	11.0
80°-90°	114.7	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°	8548.6	100.0
0°-180°	8548.6	100.0

**Coefficient of Utilization**

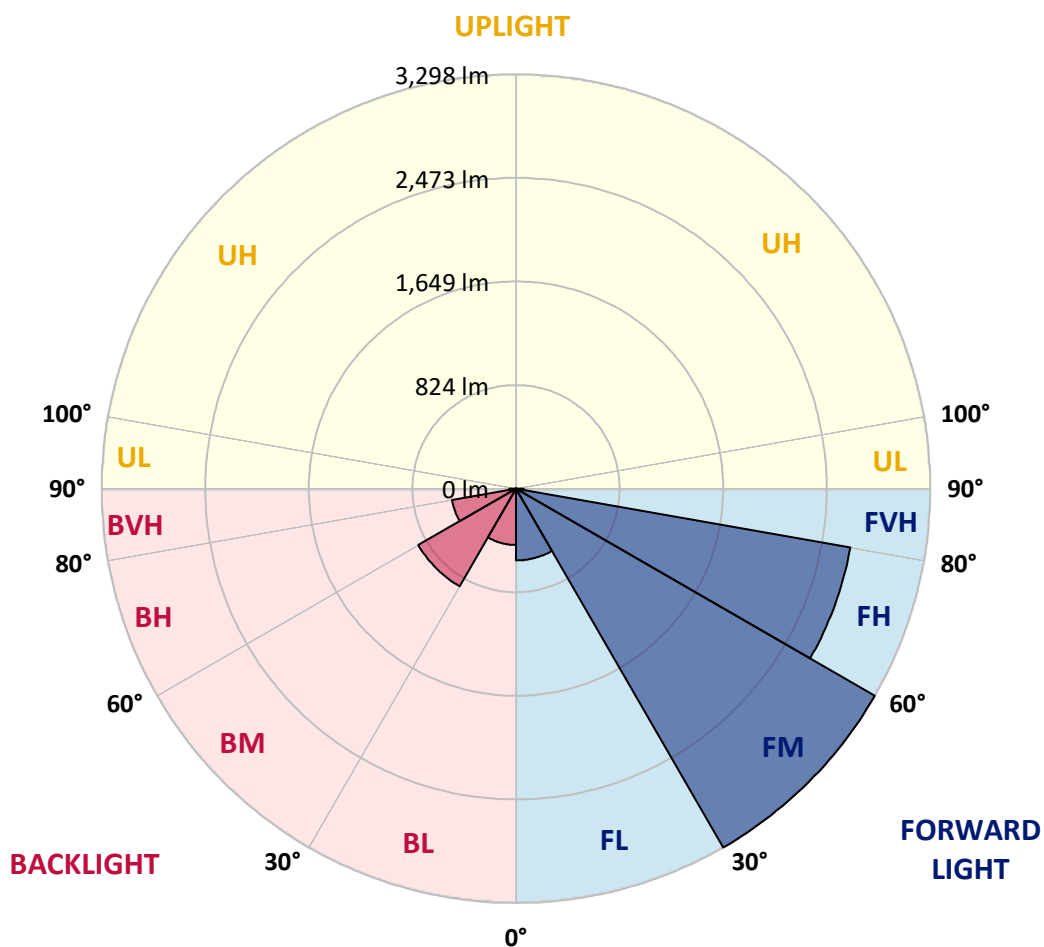


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.3	6.7			
FM (30°-60°)	3297.7	38.6			
FH (60°-80°)	2702.0	31.6			G2/5000
FVH (80°-90°)	60.5	0.7			G1/100
BL (0°-30°)	448.4	5.2	B1/500		
BM (30°-60°)	896.8	10.5	B1/1000		
BH (60°-80°)	517.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	54.2	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°	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1
2.5°	999.2	1004.6	1001.0	1011.8	1020.7	1020.7	1027.9	1022.5	1029.7	1039.5
5°	1032.3	1010.9	1022.5	1027.9	1025.2	1029.7	1022.5	1040.4	1028.8	1047.6
7.5°	1040.4	1048.4	1058.3	1049.3	1057.4	1052.9	1053.8	1051.1	1044.9	1060.1
10°	1099.4	1087.8	1110.2	1096.8	1095.0	1093.2	1089.6	1076.2	1091.4	1092.3
12.5°	1167.4	1156.7	1155.8	1145.1	1159.4	1133.4	1138.8	1131.6	1134.3	1137.9
15°	1216.6	1212.2	1232.7	1220.2	1201.4	1189.8	1202.3	1182.6	1192.5	1190.7
17.5°	1314.1	1313.2	1298.0	1277.5	1266.7	1249.7	1247.0	1239.0	1246.1	1242.6
20°	1382.1	1392.0	1394.6	1370.5	1329.3	1310.6	1306.1	1299.8	1307.9	1305.2
22.5°	1485.9	1470.7	1482.3	1440.3	1425.1	1380.3	1364.2	1355.3	1393.8	1383.9
25°	1552.1	1568.2	1556.6	1542.3	1508.3	1452.8	1441.2	1460.8	1476.1	1465.3
27.5°	1701.5	1685.4	1674.7	1631.7	1609.3	1551.2	1537.8	1530.6	1534.2	1540.5
30°	1815.1	1824.0	1799.9	1769.5	1713.1	1654.1	1622.8	1616.5	1604.0	1593.2
32.5°	1977.0	1963.6	1949.3	1929.6	1881.3	1803.5	1773.1	1749.8	1712.2	1662.1
35°	2054.8	2093.3	2082.6	2029.8	1993.1	1963.6	1954.7	1918.9	1887.6	1808.8
37.5°	2184.6	2200.7	2185.5	2168.5	2151.5	2120.2	2109.4	2119.3	2057.5	1927.8
40°	2268.7	2302.6	2334.0	2286.5	2283.0	2289.2	2223.0	2211.4	2084.4	2016.4
42.5°	2440.4	2454.7	2461.0	2459.2	2479.8	2479.8	2353.6	2328.6	2238.2	2182.8
45°	2667.6	2679.3	2701.6	2717.7	2694.5	2706.1	2526.3	2516.4	2435.9	2425.2
47.5°	2864.4	2892.2	2942.3	2989.7	3020.1	2980.7	2783.9	2714.2	2693.6	2758.0
50°	3036.2	3003.1	3120.3	3168.6	3301.9	3367.2	3068.4	3040.7	3007.6	3131.0
52.5°	3053.2	3097.9	3263.4	3360.0	3634.7	3755.4	3417.3	3405.7	3365.4	3507.6
55°	3174.9	3169.5	3335.9	3545.2	3871.7	4074.8	3871.7	3864.6	3776.9	3912.0
57.5°	3154.3	3208.9	3340.4	3632.9	4085.5	4417.4	4398.6	4349.4	4226.9	4336.9
60°	3084.5	3098.8	3259.0	3630.2	4209.9	4769.0	4967.6	4977.4	4727.0	4814.6
62.5°	2689.1	2722.2	2925.3	3344.8	4121.3	5011.4	5523.1	5488.2	5287.9	5187.7
65°	2138.9	2105.8	2317.0	2770.5	3570.3	4839.7	5766.5	5896.2	5581.3	5397.9
67.5°	1311.5	1303.4	1506.5	1906.3	2671.2	4118.6	5572.3	5673.4	5499.9	5353.2
70°	675.4	654.8	781.9	1063.7	1679.1	3021.9	4849.5	4948.8	5114.3	4801.2
72.5°	314.9	310.4	378.4	523.3	855.2	1776.6	3755.4	3827.0	4175.9	4048.0
75°	185.2	187.9	226.3	273.7	416.9	837.3	2492.3	2631.0	3009.4	2917.2
77.5°	138.7	138.7	161.0	190.5	243.3	323.8	1230.0	1413.4	1759.6	1582.5
80°	102.0	103.8	123.5	143.1	169.1	167.3	488.4	572.5	806.9	689.7
82.5°	79.6	82.3	95.7	106.5	119.0	101.1	200.4	215.6	331.9	263.9
85°	55.5	57.3	75.1	72.5	72.5	56.4	83.2	87.7	131.5	125.2
87.5°	13.4	15.2	36.7	40.3	30.4	17.0	25.9	29.5	47.4	54.6
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°
1026.1	0°	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1	1026.1
1044.0	2.5°	1030.6	1034.1	1049.3	1041.3	1045.8	1027.0	1042.2	1029.7	1040.4	1035.0
1052.0	5°	1059.2	1051.1	1060.1	1053.8	1053.8	1061.0	1071.7	1063.7	1079.8	1072.6
1058.3	7.5°	1070.8	1071.7	1077.1	1078.0	1073.5	1095.9	1096.8	1094.1	1109.3	1105.7
1101.2	10°	1099.4	1100.3	1110.2	1115.5	1111.1	1119.1	1110.2	1103.0	1102.1	1098.5
1135.2	12.5°	1145.1	1154.0	1152.2	1156.7	1157.6	1123.6	1103.0	1068.1	1063.7	1068.1
1185.3	15°	1187.1	1183.5	1185.3	1194.3	1156.7	1102.1	1065.4	1035.9	1037.7	1038.6
1250.6	17.5°	1237.2	1239.9	1242.6	1201.4	1132.5	1068.1	1035.9	1035.9	1027.0	1030.6
1296.2	20°	1294.5	1283.7	1260.5	1202.3	1090.5	1028.8	1018.9	1018.9	1008.2	1001.0
1345.4	22.5°	1339.2	1317.7	1282.8	1174.6	1052.9	1013.6	989.4	972.4	959.9	945.6
1400.0	25°	1367.8	1356.2	1288.2	1146.0	1025.2	973.3	937.5	911.6	895.5	876.7
1443.0	27.5°	1411.6	1389.3	1303.4	1112.9	994.8	933.0	877.6	837.3	806.9	787.2
1508.3	30°	1470.7	1438.5	1292.7	1065.4	948.3	863.3	798.0	746.1	711.2	695.1
1570.0	32.5°	1519.0	1476.9	1283.7	1022.5	896.4	792.6	705.8	653.0	633.4	612.8
1673.8	35°	1611.1	1527.9	1277.5	998.3	849.8	721.9	630.7	585.1	560.0	529.6
1735.5	37.5°	1681.8	1616.5	1262.3	948.3	789.9	653.0	573.4	532.3	494.7	462.5
1878.6	40°	1792.7	1740.0	1263.1	877.6	719.2	594.0	528.7	485.8	438.3	410.6
2090.6	42.5°	2001.2	1861.6	1268.5	821.2	639.6	545.7	488.4	437.4	390.0	366.8
2332.2	45°	2257.0	2028.9	1235.4	770.2	558.2	500.1	440.1	389.1	358.7	341.7
2660.5	47.5°	2551.3	2192.6	1190.7	674.5	490.2	451.8	395.4	365.9	343.5	333.7
3083.6	50°	2880.5	2427.0	1178.2	586.8	437.4	410.6	373.9	351.6	336.4	324.7
3560.4	52.5°	3304.6	2699.8	1153.1	496.5	391.8	377.5	365.9	350.7	337.3	327.4
4005.0	55°	3709.8	3002.2	1126.3	422.2	359.6	361.4	367.7	354.3	342.6	327.4
4503.3	57.5°	4166.1	3310.8	1027.0	367.7	335.5	353.4	365.9	350.7	339.0	327.4
5013.2	60°	4447.8	3484.4	832.9	320.3	314.0	338.2	355.1	339.0	326.5	331.0
5247.6	62.5°	4562.4	3393.1	628.0	290.7	298.8	317.6	338.2	331.9	322.9	339.9
5244.9	65°	4367.3	3182.9	449.1	265.7	278.2	297.0	322.9	330.1	332.8	365.9
4817.3	67.5°	3886.0	2771.4	330.1	245.1	256.7	284.5	333.7	345.3	343.5	384.7
4042.6	70°	3109.6	2167.6	257.6	228.1	248.7	294.3	348.9	348.9	336.4	384.7
3083.6	72.5°	2262.4	1527.9	221.9	208.4	228.1	270.2	347.1	346.2	330.1	351.6
1963.6	75°	1369.6	889.2	195.9	188.8	195.9	231.7	331.9	326.5	304.2	302.4
944.7	77.5°	682.6	447.3	160.1	167.3	170.9	194.1	291.6	299.7	269.3	262.1
373.0	80°	288.1	195.0	133.3	144.0	144.0	163.7	242.4	247.8	223.6	210.2
147.6	82.5°	131.5	111.8	113.6	125.2	117.2	127.0	192.3	198.6	181.6	159.2
62.6	85°	55.5	63.5	86.8	98.4	86.8	82.3	132.4	139.6	118.1	98.4
26.8	87.5°	25.0	34.9	54.6	71.6	43.8	38.5	70.7	73.4	59.0	43.8
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>
1026.1
1025.2
1062.8
1100.3
1098.5
1069.9
1051.1
1031.4
990.3
937.5
880.3
796.2
704.0
611.9
526.9
463.4
413.3
368.6
345.3
331.9
326.5
326.5
326.5
326.5
327.4
335.5
365.9
387.4
376.6
339.0
298.8
257.6
205.8
155.7
99.3
41.2
0.0

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