

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: P477532

Luminaire Tested: **IFLD-S-SA3A-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477532
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

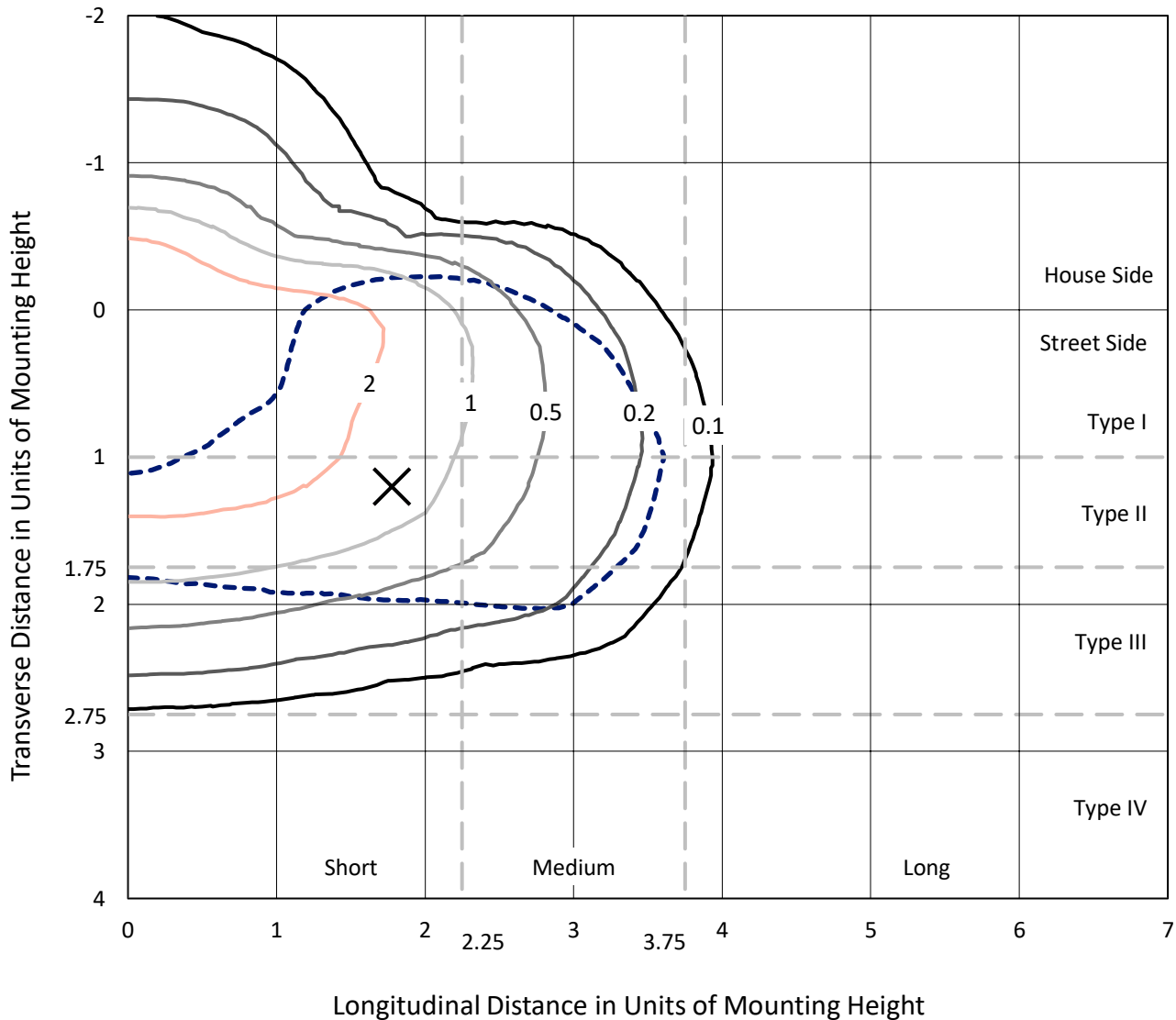
Lumens per Lamp: N/A
Luminaire Lumens: 11135 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

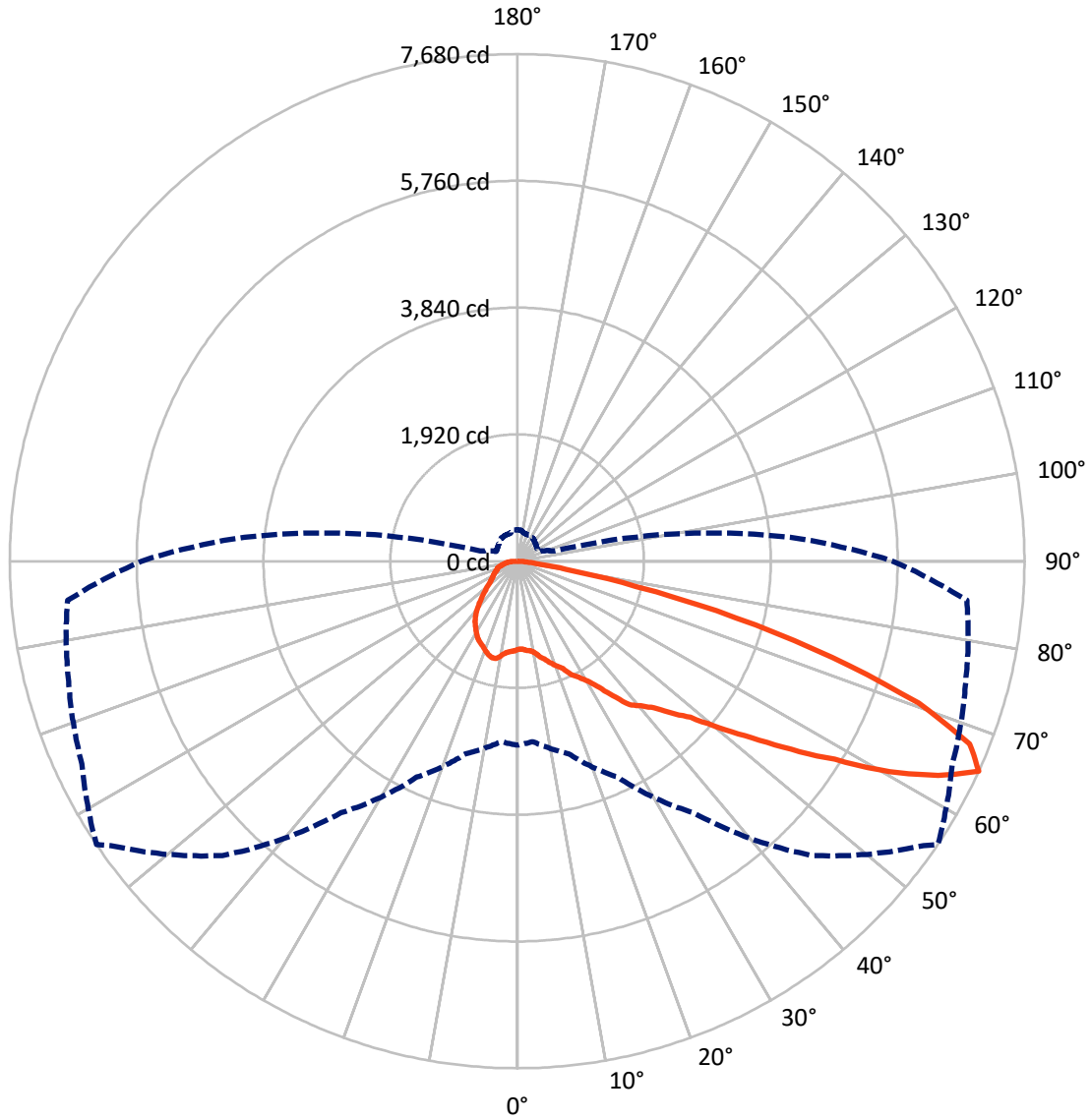
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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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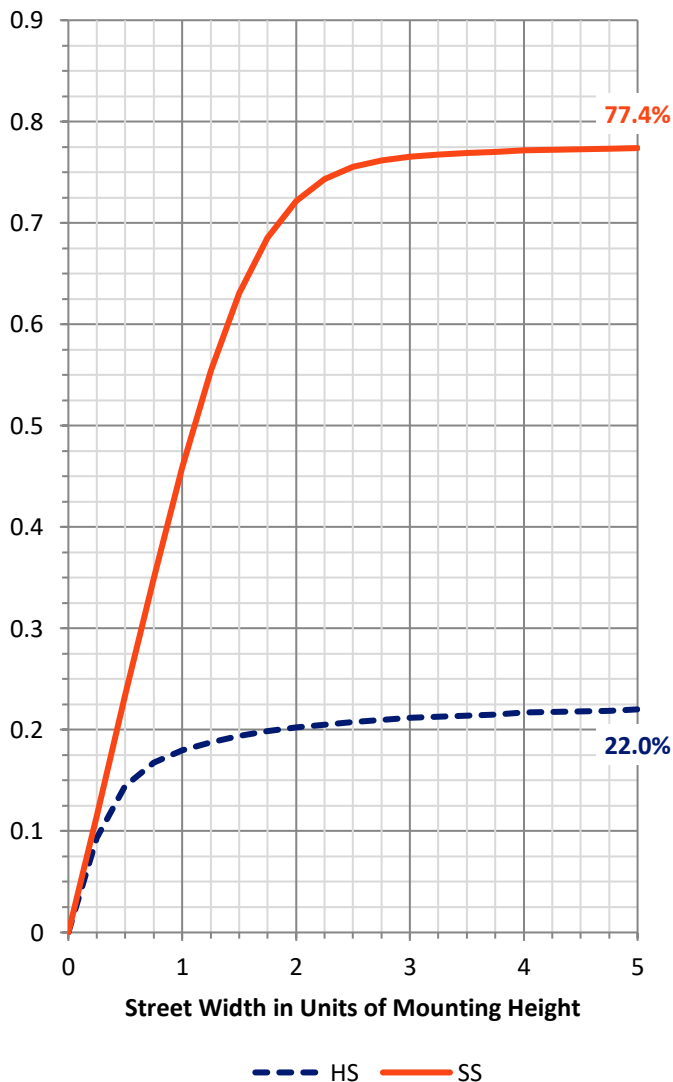
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2497.2	0.0	2497.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	8637.8	0.0	8637.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	11135.0	0.0	11135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	1.2
10°-20°	430.1	3.9
20°-30°	765.8	6.9
30°-40°	1146.7	10.3
40°-50°	1699.0	15.3
50°-60°	2617.9	23.5
60°-70°	2963.8	26.6
70°-80°	1230.0	11.0
80°-90°	149.4	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°	11135.0	100.0
0°-180°	11135.0	100.0

Coefficient of Utilization

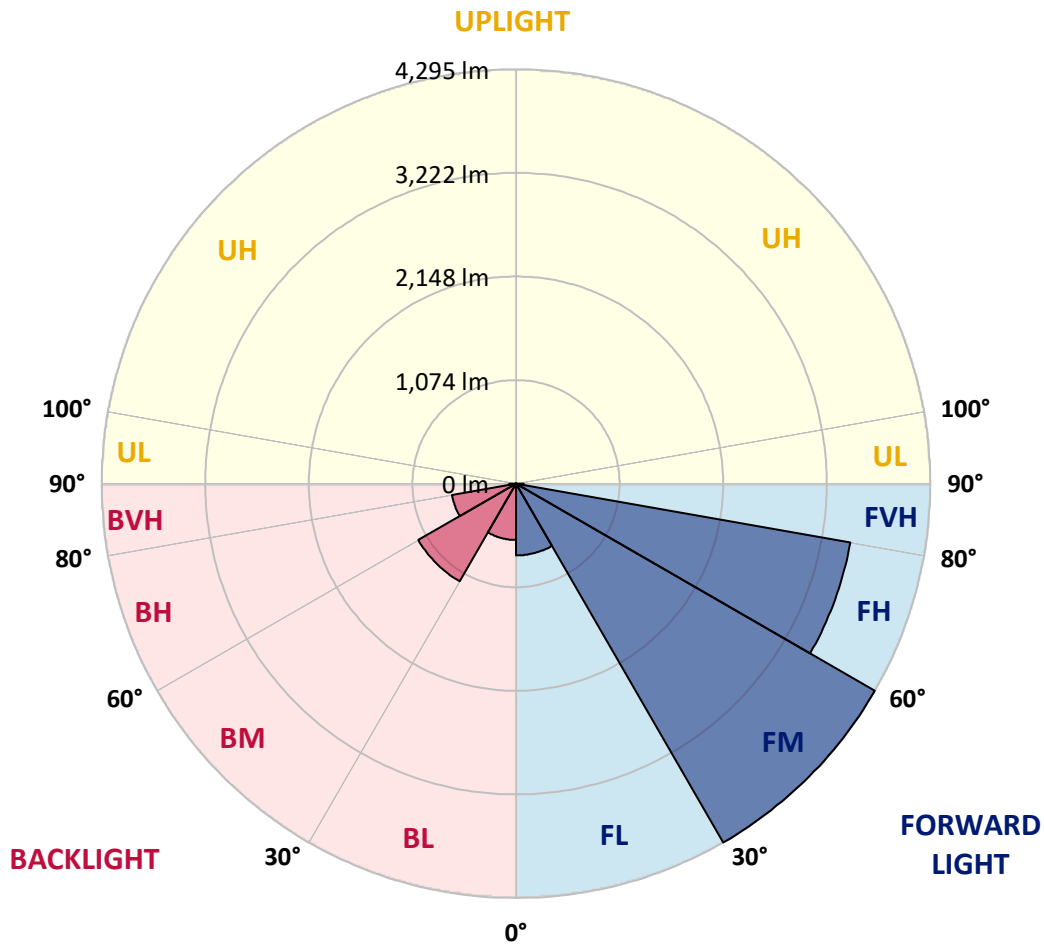


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.1	6.7			
FM (30°-60°)	4295.4	38.6			
FH (60°-80°)	3519.4	31.6			G2/5000
FVH (80°-90°)	78.8	0.7			G1/100
BL (0°-30°)	584.1	5.2	B2/1000		
BM (30°-60°)	1168.2	10.5	B2/2500		
BH (60°-80°)	674.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	70.6	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°	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5
2.5°	1301.6	1308.6	1303.9	1317.9	1329.5	1329.5	1338.8	1331.9	1341.2	1354.0
5°	1344.7	1316.7	1331.9	1338.8	1335.4	1341.2	1331.9	1355.2	1340.0	1364.5
7.5°	1355.2	1365.6	1378.5	1366.8	1377.3	1371.5	1372.6	1369.1	1361.0	1380.8
10°	1432.1	1416.9	1446.0	1428.6	1426.2	1423.9	1419.2	1401.8	1421.6	1422.7
12.5°	1520.6	1506.6	1505.5	1491.5	1510.1	1476.3	1483.3	1474.0	1477.5	1482.2
15°	1584.7	1578.9	1605.7	1589.4	1564.9	1549.8	1566.1	1540.4	1553.3	1550.9
17.5°	1711.7	1710.6	1690.7	1663.9	1650.0	1627.8	1624.3	1613.8	1623.2	1618.5
20°	1800.3	1813.1	1816.6	1785.1	1731.5	1707.1	1701.2	1693.1	1703.6	1700.1
22.5°	1935.4	1915.6	1930.8	1876.0	1856.2	1797.9	1777.0	1765.3	1815.4	1802.6
25°	2021.7	2042.6	2027.5	2008.9	1964.6	1892.3	1877.2	1902.8	1922.6	1908.6
27.5°	2216.3	2195.3	2181.3	2125.4	2096.2	2020.5	2003.0	1993.7	1998.4	2006.5
30°	2364.2	2375.9	2344.4	2304.8	2231.4	2154.5	2113.7	2105.6	2089.3	2075.3
32.5°	2575.2	2557.7	2539.0	2513.4	2450.5	2349.1	2309.5	2279.2	2230.2	2165.0
35°	2676.5	2726.6	2712.7	2643.9	2596.1	2557.7	2546.0	2499.4	2458.6	2356.1
37.5°	2845.5	2866.5	2846.7	2824.5	2802.4	2761.6	2747.6	2760.4	2680.0	2511.1
40°	2955.0	2999.3	3040.1	2978.3	2973.7	2981.8	2895.6	2880.4	2715.0	2626.4
42.5°	3178.7	3197.4	3205.5	3203.2	3230.0	3230.0	3065.7	3033.1	2915.4	2843.2
45°	3474.7	3489.9	3519.0	3540.0	3509.7	3524.8	3290.6	3277.8	3172.9	3158.9
47.5°	3731.1	3767.2	3832.4	3894.2	3933.8	3882.5	3626.2	3535.3	3508.5	3592.4
50°	3954.8	3911.7	4064.3	4127.2	4300.9	4385.9	3996.7	3960.6	3917.5	4078.3
52.5°	3976.9	4035.2	4250.8	4376.6	4734.3	4891.6	4451.2	4436.0	4383.6	4568.9
55°	4135.4	4128.4	4345.1	4617.8	5043.1	5307.6	5043.1	5033.8	4919.6	5095.5
57.5°	4108.6	4179.7	4351.0	4732.0	5321.6	5753.9	5729.4	5665.3	5505.7	5649.0
60°	4017.7	4036.4	4244.9	4728.5	5483.6	6211.8	6470.5	6483.3	6157.1	6271.3
62.5°	3502.7	3545.8	3810.3	4356.8	5368.2	6527.6	7194.1	7148.7	6887.7	6757.2
65°	2786.1	2742.9	3017.9	3608.7	4650.4	6303.9	7511.1	7680.0	7269.9	7031.0
67.5°	1708.2	1697.7	1962.2	2483.1	3479.4	5364.7	7258.2	7389.9	7163.8	6972.7
70°	879.7	852.9	1018.4	1385.5	2187.1	3936.1	6316.7	6446.0	6661.6	6253.8
72.5°	410.2	404.3	492.9	681.7	1114.0	2314.1	4891.6	4984.8	5439.3	5272.7
75°	241.2	244.7	294.8	356.6	543.0	1090.7	3246.3	3426.9	3919.8	3799.8
77.5°	180.6	180.6	209.7	248.2	316.9	421.8	1602.2	1841.1	2292.0	2061.3
80°	132.8	135.2	160.8	186.4	220.2	217.9	636.2	745.7	1051.0	898.4
82.5°	103.7	107.2	124.7	138.7	155.0	131.7	261.0	280.8	432.3	343.7
85°	72.2	74.6	97.9	94.4	94.4	73.4	108.4	114.2	171.3	163.1
87.5°	17.5	19.8	47.8	52.4	39.6	22.1	33.8	38.5	61.8	71.1
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°
1336.5	0°	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5	1336.5
1359.8	2.5°	1342.3	1347.0	1366.8	1356.3	1362.2	1337.7	1357.5	1341.2	1355.2	1348.2
1370.3	5°	1379.6	1369.1	1380.8	1372.6	1372.6	1382.0	1395.9	1385.5	1406.4	1397.1
1378.5	7.5°	1394.8	1395.9	1402.9	1404.1	1398.3	1427.4	1428.6	1425.1	1444.9	1440.2
1434.4	10°	1432.1	1433.2	1446.0	1453.0	1447.2	1457.7	1446.0	1436.7	1435.6	1430.9
1478.7	12.5°	1491.5	1503.1	1500.8	1506.6	1507.8	1463.5	1436.7	1391.3	1385.5	1391.3
1543.9	15°	1546.3	1541.6	1543.9	1555.6	1506.6	1435.6	1387.8	1349.3	1351.7	1352.8
1629.0	17.5°	1611.5	1615.0	1618.5	1564.9	1475.2	1391.3	1349.3	1349.3	1337.7	1342.3
1688.4	20°	1686.1	1672.1	1641.8	1566.1	1420.4	1340.0	1327.2	1327.2	1313.2	1303.9
1752.5	22.5°	1744.3	1716.4	1670.9	1529.9	1371.5	1320.2	1288.7	1266.6	1250.3	1231.6
1823.6	25°	1781.6	1766.5	1677.9	1492.7	1335.4	1267.8	1221.2	1187.4	1166.4	1141.9
1879.5	27.5°	1838.7	1809.6	1697.7	1449.5	1295.7	1215.3	1143.1	1090.7	1051.0	1025.4
1964.6	30°	1915.6	1873.7	1683.8	1387.8	1235.1	1124.4	1039.4	971.8	926.4	905.4
2045.0	32.5°	1978.6	1923.8	1672.1	1331.9	1167.6	1032.4	919.4	850.6	825.0	798.2
2180.1	35°	2098.6	1990.2	1663.9	1300.4	1107.0	940.3	821.5	762.1	729.4	689.8
2260.5	37.5°	2190.6	2105.6	1644.1	1235.1	1028.9	850.6	746.9	693.3	644.4	602.4
2447.0	40°	2335.1	2266.4	1645.3	1143.1	936.8	773.7	688.7	632.7	571.0	534.8
2723.1	42.5°	2606.6	2424.8	1652.3	1069.7	833.1	710.8	636.2	569.8	508.0	477.7
3037.8	45°	2939.9	2642.7	1609.2	1003.3	727.1	651.4	573.3	506.9	467.3	445.1
3465.4	47.5°	3323.2	2856.0	1550.9	878.6	638.5	588.4	515.0	476.6	447.4	434.6
4016.5	50°	3752.0	3161.3	1534.6	764.4	569.8	534.8	487.1	457.9	438.1	423.0
4637.6	52.5°	4304.4	3516.7	1502.0	646.7	510.4	491.7	476.6	456.8	439.3	426.5
5216.7	55°	4832.2	3910.5	1467.0	550.0	468.4	470.8	478.9	461.4	446.3	426.5
5865.8	57.5°	5426.5	4312.5	1337.7	478.9	437.0	460.3	476.6	456.8	441.6	426.5
6529.9	60°	5793.5	4538.6	1084.8	417.2	409.0	440.5	462.6	441.6	425.3	431.1
6835.2	62.5°	5942.7	4419.7	818.0	378.7	389.2	413.7	440.5	432.3	420.6	442.8
6831.7	65°	5688.6	4145.9	584.9	346.1	362.4	386.9	420.6	430.0	433.5	476.6
6274.8	67.5°	5061.8	3609.9	430.0	319.3	334.4	370.5	434.6	449.8	447.4	501.0
5265.7	70°	4050.3	2823.3	335.6	297.1	323.9	383.4	454.4	454.4	438.1	501.0
4016.5	72.5°	2946.9	1990.2	289.0	271.5	297.1	351.9	452.1	450.9	430.0	457.9
2557.7	75°	1784.0	1158.2	255.2	245.9	255.2	301.8	432.3	425.3	396.2	393.8
1230.5	77.5°	889.1	582.6	208.6	217.9	222.6	252.9	379.9	390.4	350.7	341.4
485.9	80°	375.2	254.0	173.6	187.6	187.6	213.2	315.8	322.8	291.3	273.8
192.3	82.5°	171.3	145.7	148.0	163.1	152.6	165.5	250.5	258.7	236.5	207.4
81.6	85°	72.2	82.7	113.0	128.2	113.0	107.2	172.5	181.8	153.8	128.2
35.0	87.5°	32.6	45.4	71.1	93.2	57.1	50.1	92.1	95.5	76.9	57.1
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>
1336.5
1335.4
1384.3
1433.2
1430.9
1393.6
1369.1
1343.5
1289.9
1221.2
1146.6
1037.1
917.0
797.0
686.3
603.6
538.3
480.1
449.8
432.3
425.3
425.3
425.3
425.3
426.5
437.0
476.6
504.5
490.6
441.6
389.2
335.6
268.0
202.7
129.3
53.6
0.0

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