

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: P477218

Luminaire Tested: **IFLD-S-SA2D-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477218
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

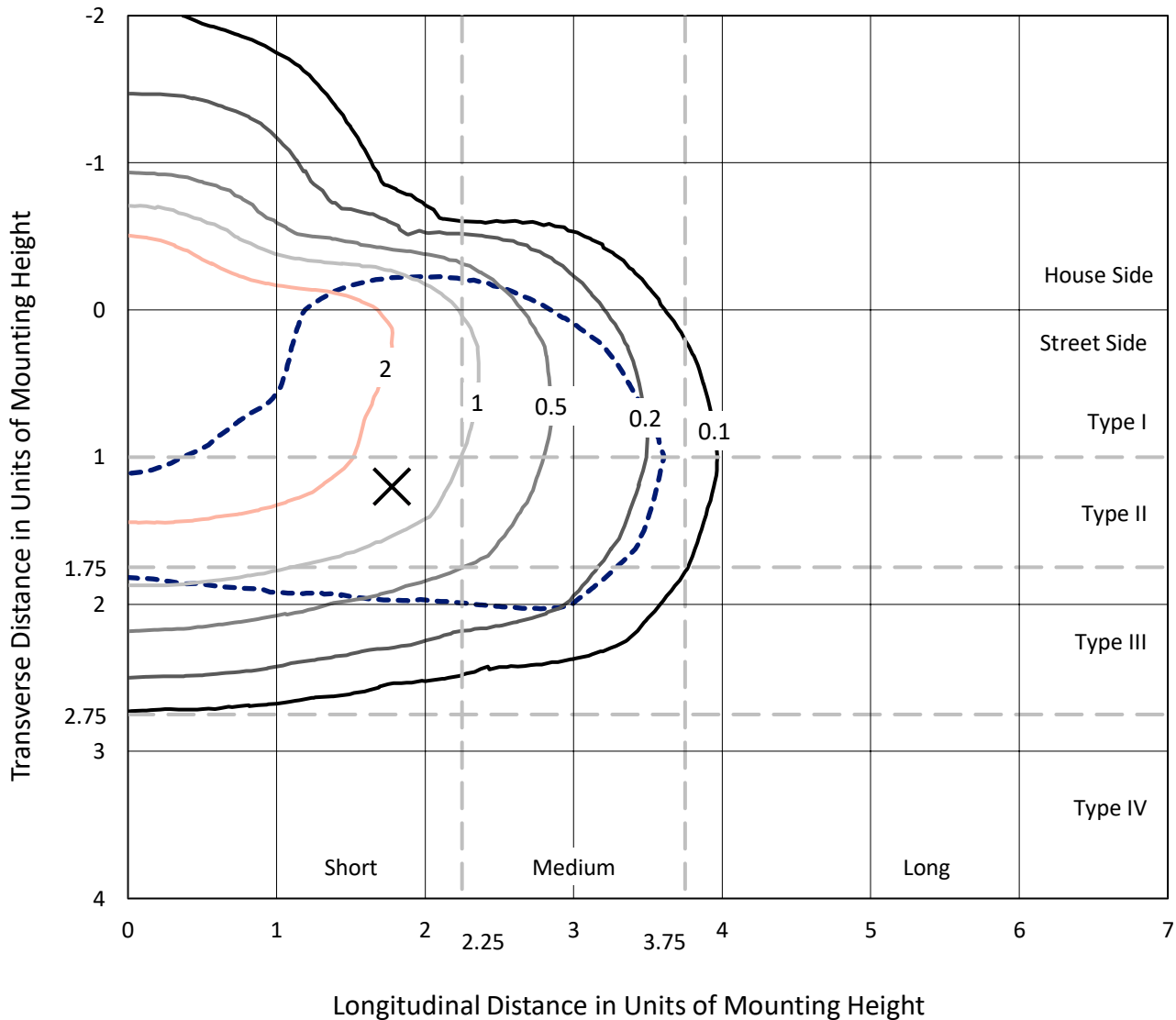
Lumens per Lamp: N/A
Luminaire Lumens: 11733.4 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

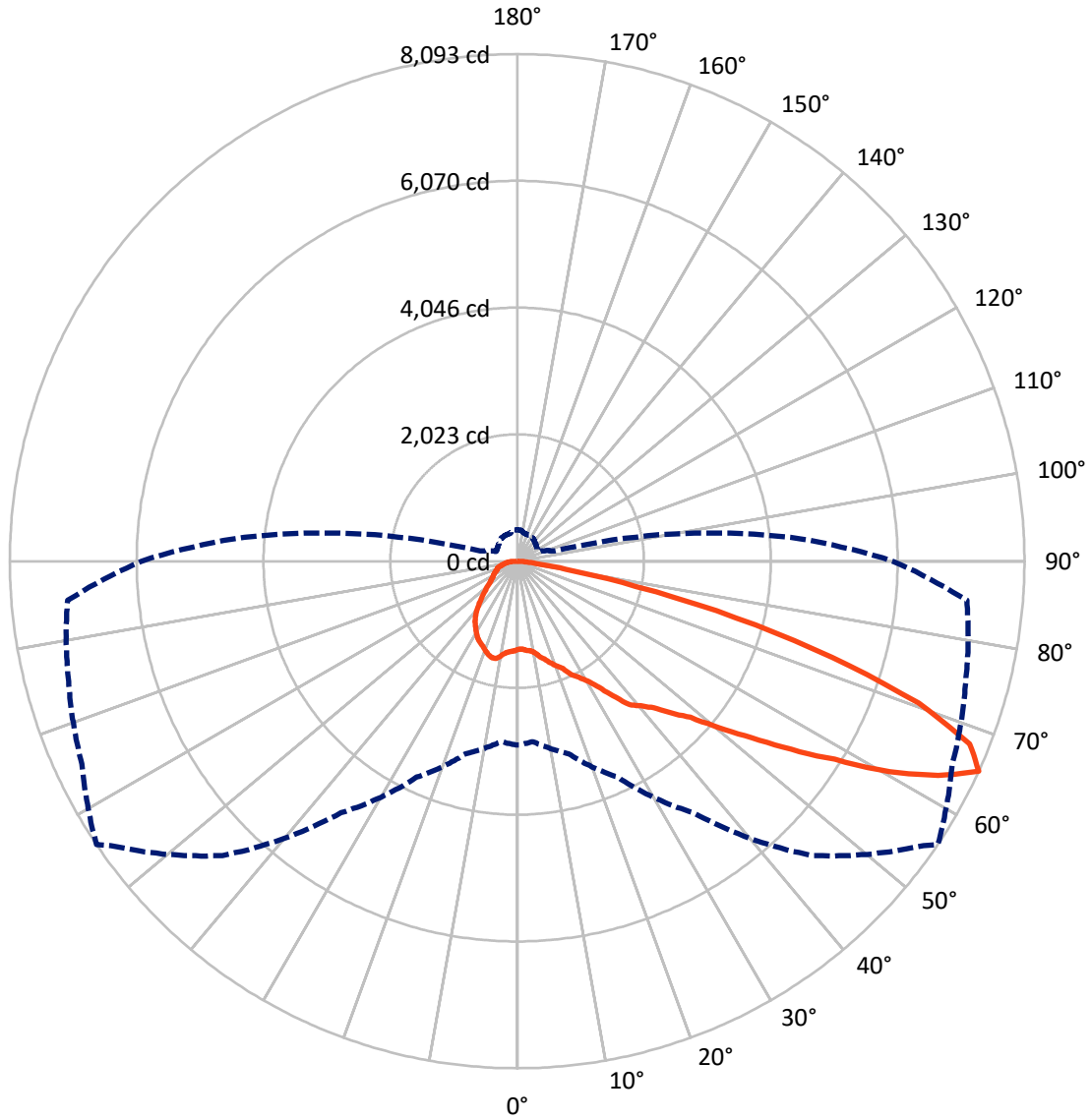
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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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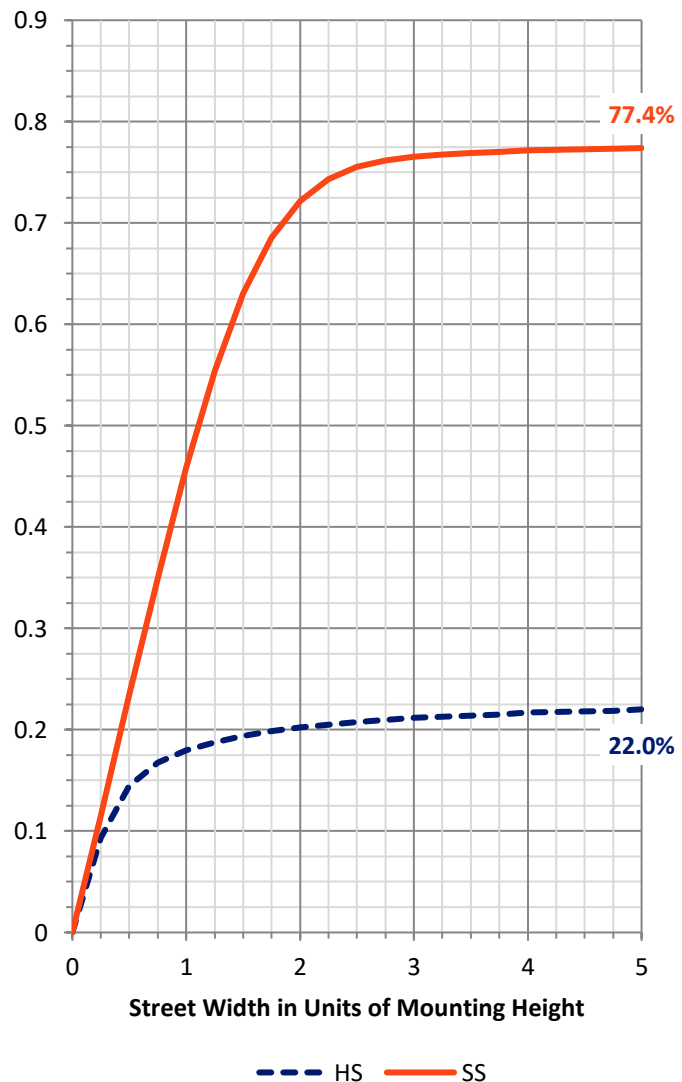
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2631.4	0.0	2631.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	9102.0	0.0	9102.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	11733.4	0.0	11733.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.2
10°-20°	453.2	3.9
20°-30°	806.9	6.9
30°-40°	1208.3	10.3
40°-50°	1790.3	15.3
50°-60°	2758.6	23.5
60°-70°	3123.1	26.6
70°-80°	1296.1	11.0
80°-90°	157.5	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°	11733.4	100.0
0°-180°	11733.4	100.0

Coefficient of Utilization

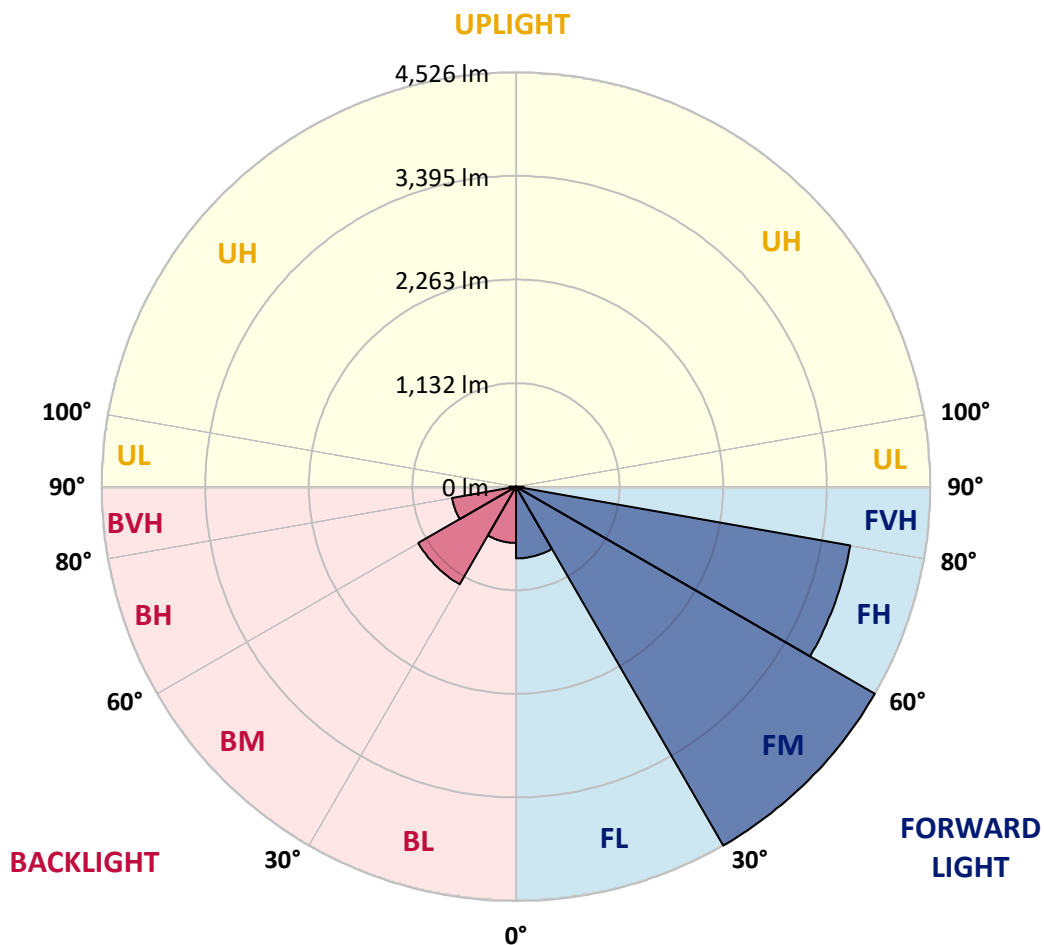


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.1	6.7			
FM (30°-60°)	4526.2	38.6			
FH (60°-80°)	3708.6	31.6			G2/5000
FVH (80°-90°)	83.1	0.7			G1/100
BL (0°-30°)	615.5	5.2	B2/1000		
BM (30°-60°)	1230.9	10.5	B2/2500		
BH (60°-80°)	710.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	74.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
2.5°	1371.5	1378.9	1374.0	1388.7	1401.0	1401.0	1410.8	1403.4	1413.3	1426.8
5°	1416.9	1387.5	1403.4	1410.8	1407.1	1413.3	1403.4	1428.0	1412.0	1437.8
7.5°	1428.0	1439.0	1452.5	1440.3	1451.3	1445.2	1446.4	1442.7	1434.1	1455.0
10°	1509.0	1493.1	1523.8	1505.3	1502.9	1500.4	1495.5	1477.1	1498.0	1499.2
12.5°	1602.3	1587.6	1586.4	1571.7	1591.3	1555.7	1563.1	1553.2	1556.9	1561.8
15°	1669.9	1663.7	1692.0	1674.8	1649.0	1633.0	1650.2	1623.2	1636.7	1634.3
17.5°	1803.7	1802.5	1781.6	1753.4	1738.6	1715.3	1711.6	1700.6	1710.4	1705.5
20°	1897.0	1910.5	1914.2	1881.1	1824.6	1798.8	1792.7	1784.1	1795.1	1791.4
22.5°	2039.5	2018.6	2034.6	1976.8	1956.0	1894.6	1872.5	1860.2	1913.0	1899.5
25°	2130.3	2152.4	2136.5	2116.8	2070.2	1994.0	1978.1	2005.1	2026.0	2011.2
27.5°	2335.4	2313.3	2298.5	2239.6	2208.9	2129.1	2110.7	2100.9	2105.8	2114.4
30°	2491.3	2503.6	2470.4	2428.7	2351.3	2270.3	2227.3	2218.7	2201.5	2186.8
32.5°	2713.6	2695.1	2675.5	2648.5	2582.2	2475.3	2433.6	2401.7	2350.1	2281.3
35°	2820.4	2873.2	2858.4	2786.0	2735.7	2695.1	2682.9	2633.7	2590.8	2482.7
37.5°	2998.4	3020.5	2999.6	2976.3	2953.0	2910.0	2895.3	2908.8	2824.1	2646.0
40°	3113.8	3160.5	3203.5	3138.4	3133.5	3142.1	3051.2	3035.3	2860.9	2767.6
42.5°	3349.6	3369.2	3377.8	3375.4	3403.6	3403.6	3230.5	3196.1	3072.1	2996.0
45°	3661.5	3677.4	3708.1	3730.2	3698.3	3714.3	3467.5	3453.9	3343.4	3328.7
47.5°	3931.6	3969.6	4038.4	4103.5	4145.2	4091.2	3821.1	3725.3	3697.1	3785.5
50°	4167.3	4121.9	4282.7	4349.1	4532.0	4621.6	4211.5	4173.5	4128.0	4297.5
52.5°	4190.7	4252.1	4479.2	4611.8	4988.8	5154.5	4690.4	4674.4	4619.2	4814.4
55°	4357.6	4350.3	4578.7	4866.0	5314.1	5592.9	5314.1	5304.3	5184.0	5369.4
57.5°	4329.4	4404.3	4584.8	4986.3	5607.6	6063.1	6037.3	5969.8	5801.6	5952.6
60°	4233.6	4253.3	4473.1	4982.6	5778.3	6545.7	6818.3	6831.8	6488.0	6608.3
62.5°	3690.9	3736.4	4015.1	4590.9	5656.7	6878.4	7580.8	7532.9	7257.8	7120.3
65°	2935.8	2890.4	3180.1	3802.7	4900.4	6642.7	7914.7	8092.8	7660.6	7408.9
67.5°	1800.0	1789.0	2067.7	2616.6	3666.4	5653.0	7648.3	7787.0	7548.8	7347.5
70°	927.0	898.8	1073.1	1459.9	2304.7	4147.7	6656.2	6792.5	7019.6	6589.9
72.5°	432.2	426.1	519.4	718.3	1173.8	2438.5	5154.5	5252.8	5731.6	5556.0
75°	254.2	257.8	310.6	375.7	572.2	1149.3	3420.8	3611.1	4130.5	4004.0
77.5°	190.3	190.3	221.0	261.5	334.0	444.5	1688.3	1940.0	2415.2	2172.1
80°	140.0	142.4	169.4	196.5	232.1	229.6	670.4	785.8	1107.5	946.7
82.5°	109.3	113.0	131.4	146.1	163.3	138.7	275.0	295.9	455.5	362.2
85°	76.1	78.6	103.1	99.5	99.5	77.4	114.2	120.3	180.5	171.9
87.5°	18.4	20.9	50.3	55.3	41.7	23.3	35.6	40.5	65.1	74.9
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°
1408.3	0°	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3	1408.3
1432.9	2.5°	1414.5	1419.4	1440.3	1429.2	1435.4	1409.6	1430.4	1413.3	1428.0	1420.6
1444.0	5°	1453.8	1442.7	1455.0	1446.4	1446.4	1456.2	1471.0	1459.9	1482.0	1472.2
1452.5	7.5°	1469.7	1471.0	1478.3	1479.6	1473.4	1504.1	1505.3	1501.7	1522.5	1517.6
1511.5	10°	1509.0	1510.3	1523.8	1531.1	1525.0	1536.0	1523.8	1513.9	1512.7	1507.8
1558.1	12.5°	1571.7	1583.9	1581.5	1587.6	1588.8	1542.2	1513.9	1466.1	1459.9	1466.1
1626.9	15°	1629.4	1624.4	1626.9	1639.2	1587.6	1512.7	1462.4	1421.9	1424.3	1425.5
1716.5	17.5°	1698.1	1701.8	1705.5	1649.0	1554.5	1466.1	1421.9	1421.9	1409.6	1414.5
1779.2	20°	1776.7	1762.0	1730.0	1650.2	1496.8	1412.0	1398.5	1398.5	1383.8	1374.0
1846.7	22.5°	1838.1	1808.6	1760.7	1612.2	1445.2	1391.2	1358.0	1334.7	1317.5	1297.8
1921.6	25°	1877.4	1861.4	1768.1	1572.9	1407.1	1335.9	1286.8	1251.2	1229.1	1203.3
1980.5	27.5°	1937.6	1906.9	1789.0	1527.4	1365.4	1280.6	1204.5	1149.3	1107.5	1080.5
2070.2	30°	2018.6	1974.4	1774.2	1462.4	1301.5	1184.9	1095.2	1024.0	976.1	954.0
2154.9	32.5°	2084.9	2027.2	1762.0	1403.4	1230.3	1087.9	968.8	896.3	869.3	841.1
2297.3	35°	2211.4	2097.2	1753.4	1370.3	1166.5	990.9	865.6	803.0	768.6	726.9
2382.0	37.5°	2308.4	2218.7	1732.5	1301.5	1084.2	896.3	787.1	730.6	679.0	634.8
2578.5	40°	2460.6	2388.2	1733.7	1204.5	987.2	815.3	725.7	666.7	601.6	563.6
2869.5	42.5°	2746.7	2555.2	1741.1	1127.2	877.9	749.0	670.4	600.4	535.3	503.4
3201.0	45°	3097.9	2784.8	1695.7	1057.2	766.2	686.4	604.1	534.1	492.4	469.0
3651.6	47.5°	3501.8	3009.5	1634.3	925.8	672.9	620.1	542.7	502.2	471.5	458.0
4232.4	50°	3953.7	3331.2	1617.1	805.5	600.4	563.6	513.2	482.5	461.7	445.7
4886.9	52.5°	4535.7	3705.7	1582.7	681.5	537.8	518.2	502.2	481.3	462.9	449.4
5497.1	55°	5091.9	4120.7	1545.9	579.5	493.6	496.1	504.6	486.2	470.3	449.4
6181.0	57.5°	5718.1	4544.3	1409.6	504.6	460.4	485.0	502.2	481.3	465.4	449.4
6880.9	60°	6104.9	4782.5	1143.1	439.6	431.0	464.1	487.5	465.4	448.2	454.3
7202.6	62.5°	6262.0	4657.2	862.0	399.1	410.1	435.9	464.1	455.5	443.3	466.6
7198.9	65°	5994.4	4368.7	616.4	364.7	381.9	407.6	443.3	453.1	456.8	502.2
6612.0	67.5°	5333.8	3803.9	453.1	336.4	352.4	390.5	458.0	474.0	471.5	528.0
5548.7	70°	4268.0	2975.1	353.6	313.1	341.3	404.0	478.9	478.9	461.7	528.0
4232.4	72.5°	3105.2	2097.2	304.5	286.1	313.1	370.8	476.4	475.2	453.1	482.5
2695.1	75°	1879.8	1220.5	268.9	259.1	268.9	318.0	455.5	448.2	417.5	415.0
1296.6	77.5°	936.9	613.9	219.8	229.6	234.5	266.4	400.3	411.3	369.6	359.8
512.0	80°	395.4	267.7	182.9	197.7	197.7	224.7	332.7	340.1	307.0	288.5
202.6	82.5°	180.5	153.5	155.9	171.9	160.8	174.4	264.0	272.6	249.3	218.6
85.9	85°	76.1	87.2	119.1	135.1	119.1	113.0	181.7	191.5	162.1	135.1
36.8	87.5°	34.4	47.9	74.9	98.2	60.2	52.8	97.0	100.7	81.0	60.2
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>
1408.3
1407.1
1458.7
1510.3
1507.8
1468.5
1442.7
1415.7
1359.2
1286.8
1208.2
1092.8
966.3
839.9
723.2
636.0
567.3
505.9
474.0
455.5
448.2
448.2
448.2
448.2
449.4
460.4
502.2
531.7
516.9
465.4
410.1
353.6
282.4
213.6
136.3
56.5
0.0

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