

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: P477530

Luminaire Tested: **IFLD-S-SA2D-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477530
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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

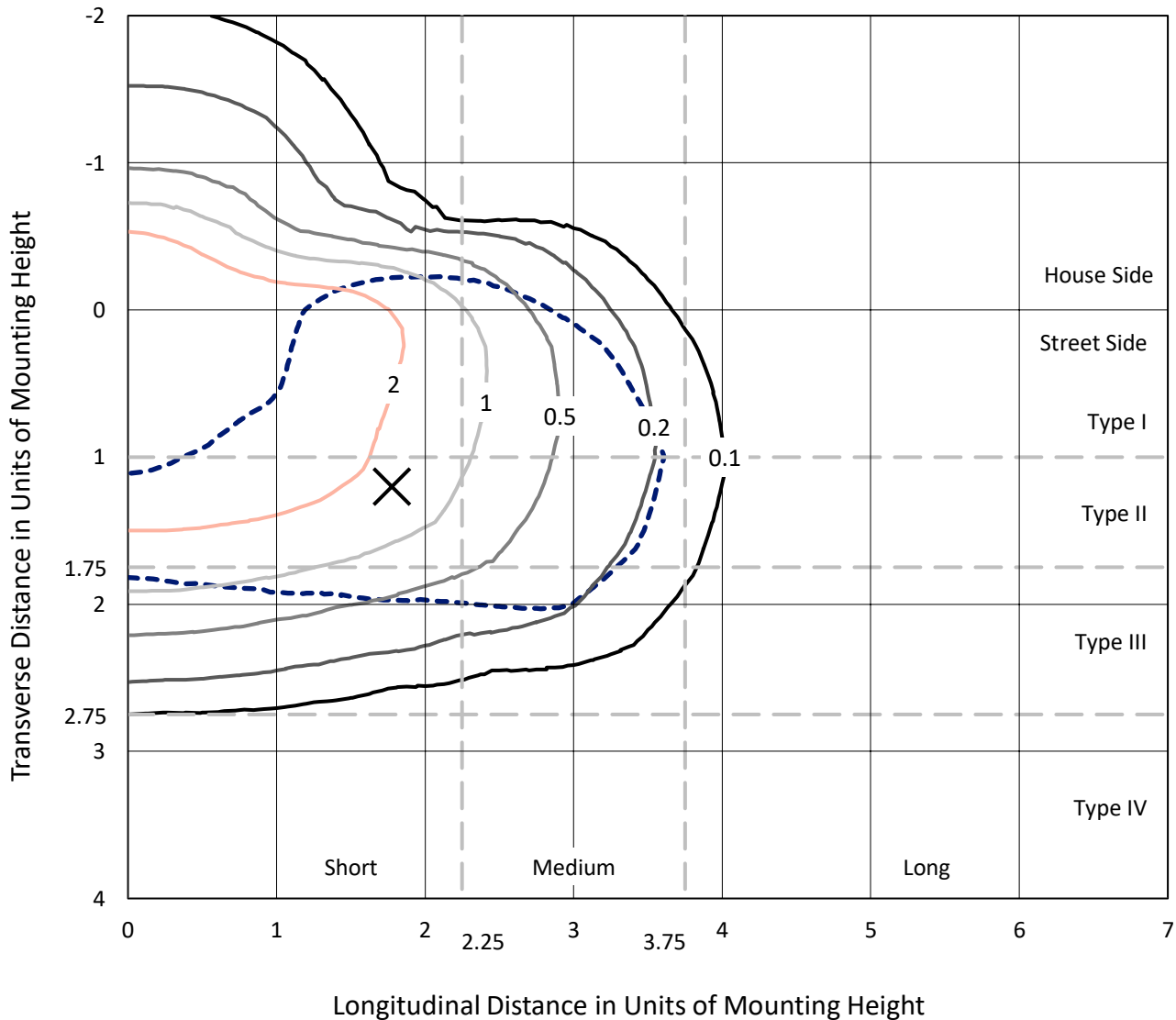
Lumens per Lamp: N/A
Luminaire Lumens: 12657.3 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P477530
 CATALOG NUMBER: IFLD-S-SA2D-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

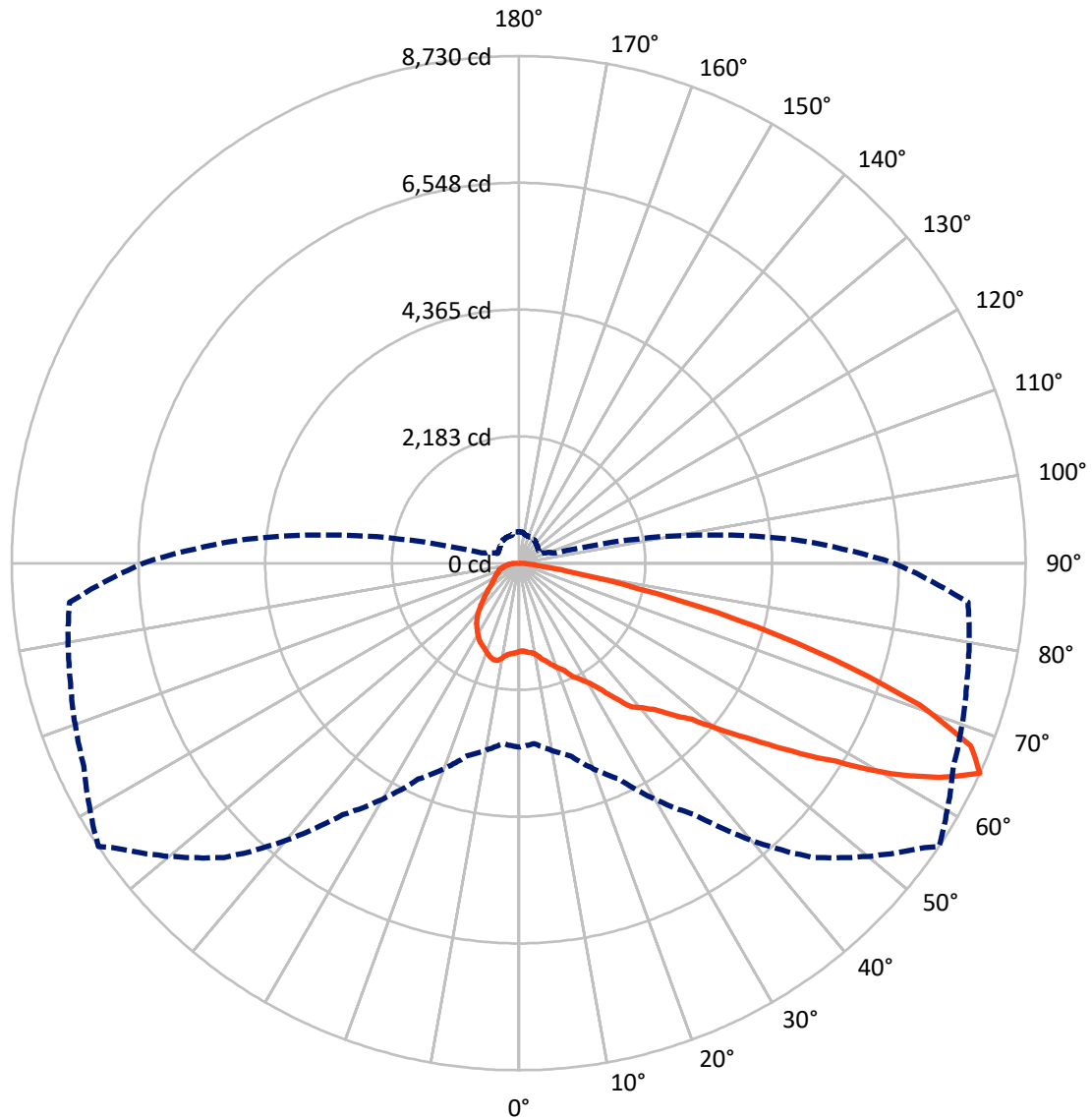
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

REPORT NUMBER: P477530
CATALOG NUMBER: IFLD-S-SA2D-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA2D-830-U-T3

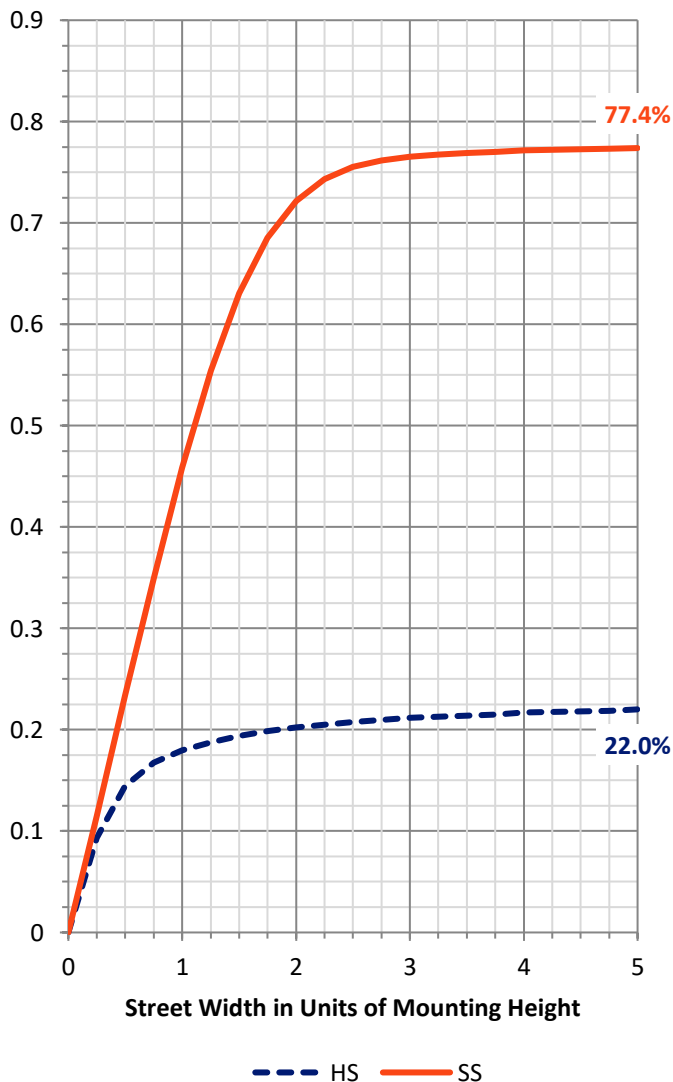
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2838.6	0.0	2838.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	9818.7	0.0	9818.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	12657.3	0.0	12657.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	1.2
10°-20°	488.9	3.9
20°-30°	870.4	6.9
30°-40°	1303.5	10.3
40°-50°	1931.2	15.3
50°-60°	2975.8	23.5
60°-70°	3369.0	26.6
70°-80°	1398.2	11.0
80°-90°	169.9	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°	12657.3	100.0
0°-180°	12657.3	100.0

Coefficient of Utilization

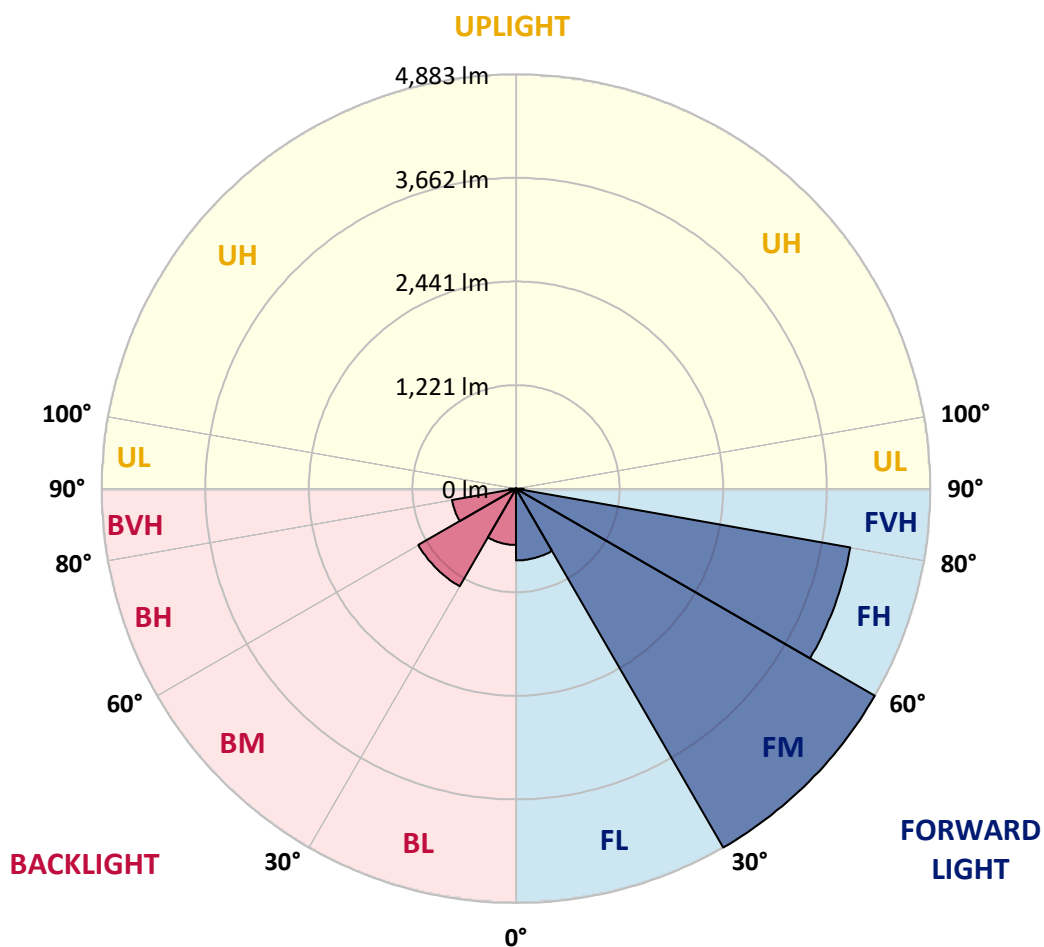


REPORT NUMBER: P477530
 CATALOG NUMBER: IFLD-S-SA2D-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.9	6.7			
FM (30°-60°)	4882.6	38.6			
FH (60°-80°)	4000.6	31.6			G2/5000
FVH (80°-90°)	89.6	0.7			G1/100
BL (0°-30°)	664.0	5.2	B2/1000		
BM (30°-60°)	1327.9	10.5	B2/2500		
BH (60°-80°)	766.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	80.3	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





REPORT NUMBER: P477530
 CATALOG NUMBER: IFLD-S-SA2D-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1479.5	1487.5	1482.2	1498.0	1511.3	1511.3	1521.9	1513.9	1524.5	1539.1
5°	1528.5	1496.7	1513.9	1521.9	1517.9	1524.5	1513.9	1540.4	1523.2	1551.0
7.5°	1540.4	1552.4	1566.9	1553.7	1565.6	1559.0	1560.3	1556.3	1547.1	1569.6
10°	1627.9	1610.6	1643.7	1623.9	1621.2	1618.6	1613.3	1593.4	1615.9	1617.3
12.5°	1728.5	1712.6	1711.3	1695.4	1716.6	1678.2	1686.1	1675.5	1679.5	1684.8
15°	1801.4	1794.7	1825.2	1806.7	1778.8	1761.6	1780.2	1751.0	1765.6	1763.0
17.5°	1945.7	1944.4	1921.9	1891.4	1875.5	1850.4	1846.4	1834.5	1845.1	1839.8
20°	2046.4	2061.0	2064.9	2029.2	1968.3	1940.4	1933.8	1924.5	1936.5	1932.5
22.5°	2200.0	2177.5	2194.8	2132.5	2110.0	2043.8	2019.9	2006.7	2063.6	2049.1
25°	2298.1	2321.9	2304.7	2283.5	2233.2	2151.0	2133.8	2163.0	2185.5	2169.6
27.5°	2519.3	2495.4	2479.5	2415.9	2382.8	2296.7	2276.9	2266.3	2271.6	2280.8
30°	2687.5	2700.7	2665.0	2619.9	2536.5	2449.1	2402.7	2393.4	2374.9	2359.0
32.5°	2927.2	2907.4	2886.2	2857.0	2785.5	2670.3	2625.2	2590.8	2535.2	2461.0
35°	3042.5	3099.4	3083.5	3005.4	2951.1	2907.4	2894.1	2841.1	2794.8	2678.2
37.5°	3234.5	3258.4	3235.8	3210.7	3185.5	3139.1	3123.2	3137.8	3046.4	2854.4
40°	3359.0	3409.3	3455.7	3385.5	3380.2	3389.5	3291.5	3274.2	3086.2	2985.5
42.5°	3613.3	3634.5	3643.8	3641.1	3671.6	3671.6	3484.8	3447.8	3314.0	3231.9
45°	3949.8	3967.0	4000.1	4023.9	3989.5	4006.7	3740.5	3725.9	3606.7	3590.8
47.5°	4241.2	4282.2	4356.4	4426.6	4471.6	4413.3	4121.9	4018.6	3988.2	4083.5
50°	4495.5	4446.5	4620.0	4691.5	4888.9	4985.5	4543.1	4502.1	4453.1	4635.9
52.5°	4520.6	4586.9	4831.9	4974.9	5381.6	5560.4	5059.7	5042.5	4982.9	5193.5
55°	4700.8	4692.8	4939.2	5249.1	5732.6	6033.2	5732.6	5722.0	5592.2	5792.2
57.5°	4670.3	4751.1	4945.8	5378.9	6049.1	6540.5	6512.7	6439.9	6258.4	6421.3
60°	4567.0	4588.2	4825.3	5375.0	6233.3	7061.1	7355.1	7369.7	6998.8	7128.6
62.5°	3981.5	4030.6	4331.2	4952.4	6102.1	7420.0	8177.7	8126.0	7829.3	7681.0
65°	3167.0	3118.0	3430.5	4102.1	5286.2	7165.7	8537.9	8730.0	8263.8	7992.2
67.5°	1941.8	1929.8	2230.5	2822.6	3955.1	6098.2	8250.5	8400.2	8143.2	7926.0
70°	1000.0	969.6	1157.6	1574.9	2486.1	4474.3	7180.3	7327.3	7572.4	7108.8
72.5°	466.2	459.6	560.3	774.9	1266.3	2630.5	5560.4	5666.4	6182.9	5993.5
75°	274.2	278.2	335.1	405.3	617.2	1239.8	3690.1	3895.5	4455.7	4319.3
77.5°	205.3	205.3	238.4	282.1	360.3	479.5	1821.2	2092.8	2605.4	2343.1
80°	151.0	153.6	182.8	211.9	250.3	247.7	723.2	847.7	1194.7	1021.2
82.5°	117.9	121.9	141.7	157.6	176.2	149.7	296.7	319.2	491.4	390.7
85°	82.1	84.8	111.3	107.3	107.3	83.4	123.2	129.8	194.7	185.4
87.5°	19.9	22.5	54.3	59.6	45.0	25.2	38.4	43.7	70.2	80.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477530
 CATALOG NUMBER: IFLD-S-SA2D-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1519.2	0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
1545.7	2.5°	1525.9	1531.2	1553.7	1541.8	1548.4	1520.6	1543.1	1524.5	1540.4	1532.5
1557.7	5°	1568.2	1556.3	1569.6	1560.3	1560.3	1570.9	1586.8	1574.9	1598.7	1588.1
1566.9	7.5°	1585.5	1586.8	1594.7	1596.1	1589.4	1622.6	1623.9	1619.9	1642.4	1637.1
1630.5	10°	1627.9	1629.2	1643.7	1651.7	1645.1	1657.0	1643.7	1633.1	1631.8	1626.5
1680.8	12.5°	1695.4	1708.6	1706.0	1712.6	1713.9	1663.6	1633.1	1581.5	1574.9	1581.5
1755.0	15°	1757.7	1752.4	1755.0	1768.3	1712.6	1631.8	1577.5	1533.8	1536.5	1537.8
1851.7	17.5°	1831.8	1835.8	1839.8	1778.8	1676.9	1581.5	1533.8	1533.8	1520.6	1525.9
1919.2	20°	1916.6	1900.7	1866.3	1780.2	1614.6	1523.2	1508.6	1508.6	1492.7	1482.2
1992.1	22.5°	1982.8	1951.0	1899.4	1739.1	1559.0	1500.7	1464.9	1439.8	1421.2	1400.0
2072.9	25°	2025.2	2008.0	1907.3	1696.7	1517.9	1441.1	1388.1	1349.7	1325.9	1298.0
2136.5	27.5°	2090.1	2057.0	1929.8	1647.7	1472.9	1381.5	1299.4	1239.8	1194.7	1165.6
2233.2	30°	2177.5	2129.8	1914.0	1577.5	1404.0	1278.2	1181.5	1104.7	1053.0	1029.2
2324.6	32.5°	2249.1	2186.8	1900.7	1513.9	1327.2	1173.5	1045.1	966.9	937.8	907.3
2478.2	35°	2385.5	2262.3	1891.4	1478.2	1258.3	1068.9	933.8	866.2	829.2	784.1
2569.6	37.5°	2490.1	2393.4	1868.9	1404.0	1169.6	966.9	849.0	788.1	732.5	684.8
2781.5	40°	2654.4	2576.2	1870.2	1299.4	1064.9	879.5	782.8	719.2	649.0	608.0
3095.4	42.5°	2963.0	2756.4	1878.2	1215.9	947.0	808.0	723.2	647.7	577.5	543.1
3453.1	45°	3341.8	3004.0	1829.2	1140.4	826.5	740.4	651.7	576.2	531.1	506.0
3939.2	47.5°	3777.6	3246.4	1763.0	998.7	725.8	668.9	585.4	541.7	508.6	494.1
4565.7	50°	4265.0	3593.5	1744.4	868.9	647.7	608.0	553.7	520.5	498.0	480.8
5271.6	52.5°	4892.8	3997.4	1707.3	735.1	580.1	559.0	541.7	519.2	499.3	484.8
5929.9	55°	5492.8	4445.1	1667.6	625.2	532.5	535.1	544.4	524.5	507.3	484.8
6667.7	57.5°	6168.4	4902.1	1520.6	544.4	496.7	523.2	541.7	519.2	502.0	484.8
7422.7	60°	6585.6	5159.1	1233.1	474.2	464.9	500.7	525.8	502.0	483.5	490.1
7769.7	62.5°	6755.1	5024.0	929.8	430.5	442.4	470.2	500.7	491.4	478.2	503.3
7765.7	65°	6466.4	4712.7	664.9	393.4	411.9	439.7	478.2	488.8	492.7	541.7
7132.6	67.5°	5753.8	4103.4	488.8	362.9	380.1	421.2	494.1	511.3	508.6	569.5
5985.6	70°	4604.1	3209.3	381.5	337.8	368.2	435.8	516.6	516.6	498.0	569.5
4565.7	72.5°	3349.7	2262.3	328.5	308.6	337.8	400.0	513.9	512.6	488.8	520.5
2907.4	75°	2027.9	1316.6	290.1	279.5	290.1	343.1	491.4	483.5	450.3	447.7
1398.7	77.5°	1010.6	662.3	237.1	247.7	253.0	287.4	431.8	443.7	398.7	388.1
552.3	80°	426.5	288.7	197.4	213.2	213.2	242.4	358.9	366.9	331.1	311.3
218.5	82.5°	194.7	165.6	168.2	185.4	173.5	188.1	284.8	294.0	268.9	235.8
92.7	85°	82.1	94.0	128.5	145.7	128.5	121.9	196.0	206.6	174.8	145.7
39.7	87.5°	37.1	51.7	80.8	106.0	64.9	57.0	104.6	108.6	87.4	64.9
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>
1519.2
1517.9
1573.5
1629.2
1626.5
1584.1
1556.3
1527.2
1466.3
1388.1
1303.3
1178.8
1042.4
906.0
780.2
686.1
611.9
545.7
511.3
491.4
483.5
483.5
483.5
483.5
484.8
496.7
541.7
573.5
557.6
502.0
442.4
381.5
304.6
230.5
147.0
60.9
0.0

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