

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: P477491

Luminaire Tested: **IFLD-S-SA2D-827-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477491  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-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**

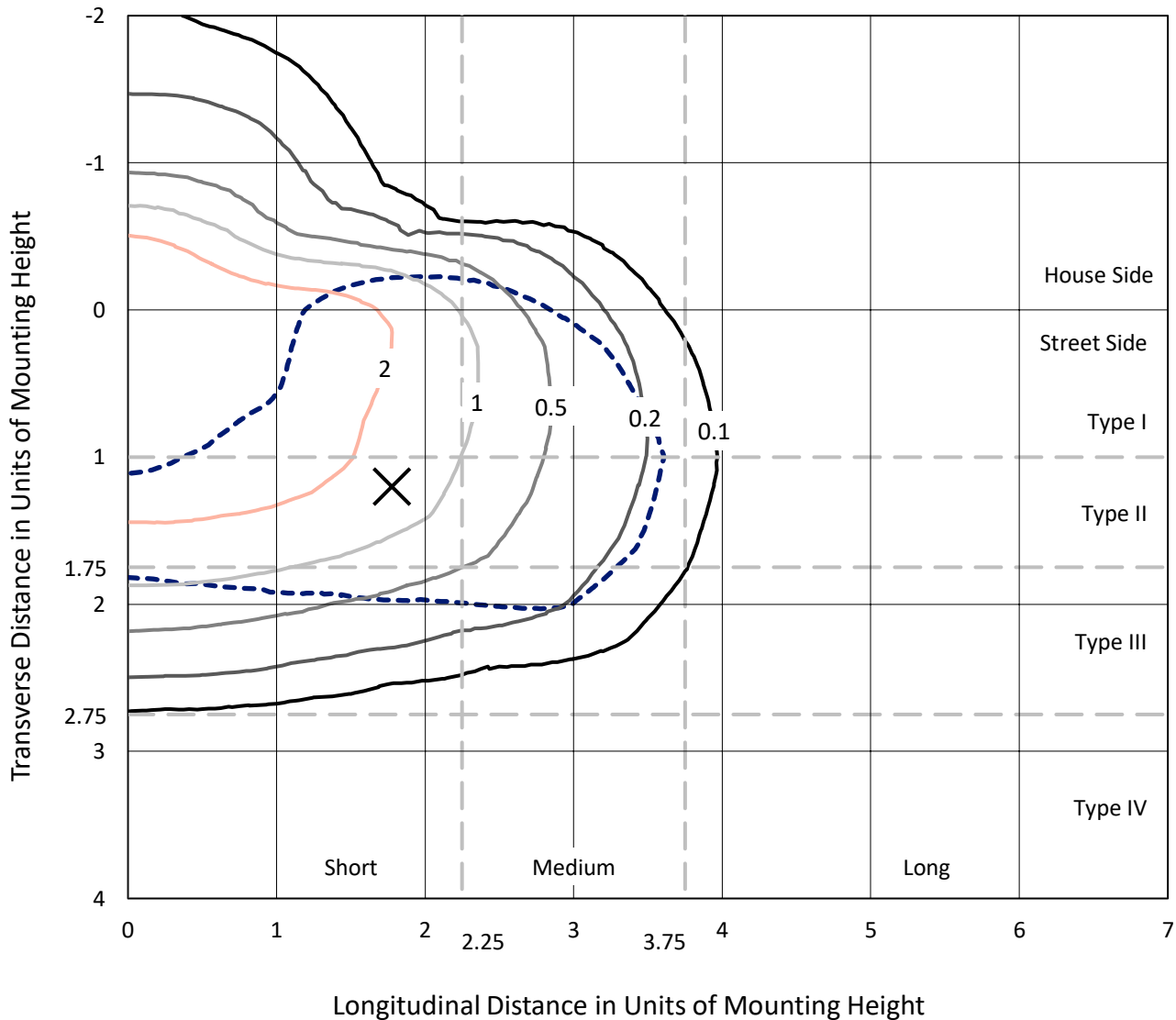
Lumens per Lamp: N/A  
Luminaire Lumens: 11709.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
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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 CATALOG NUMBER: IFLD-S-SA2D-827-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

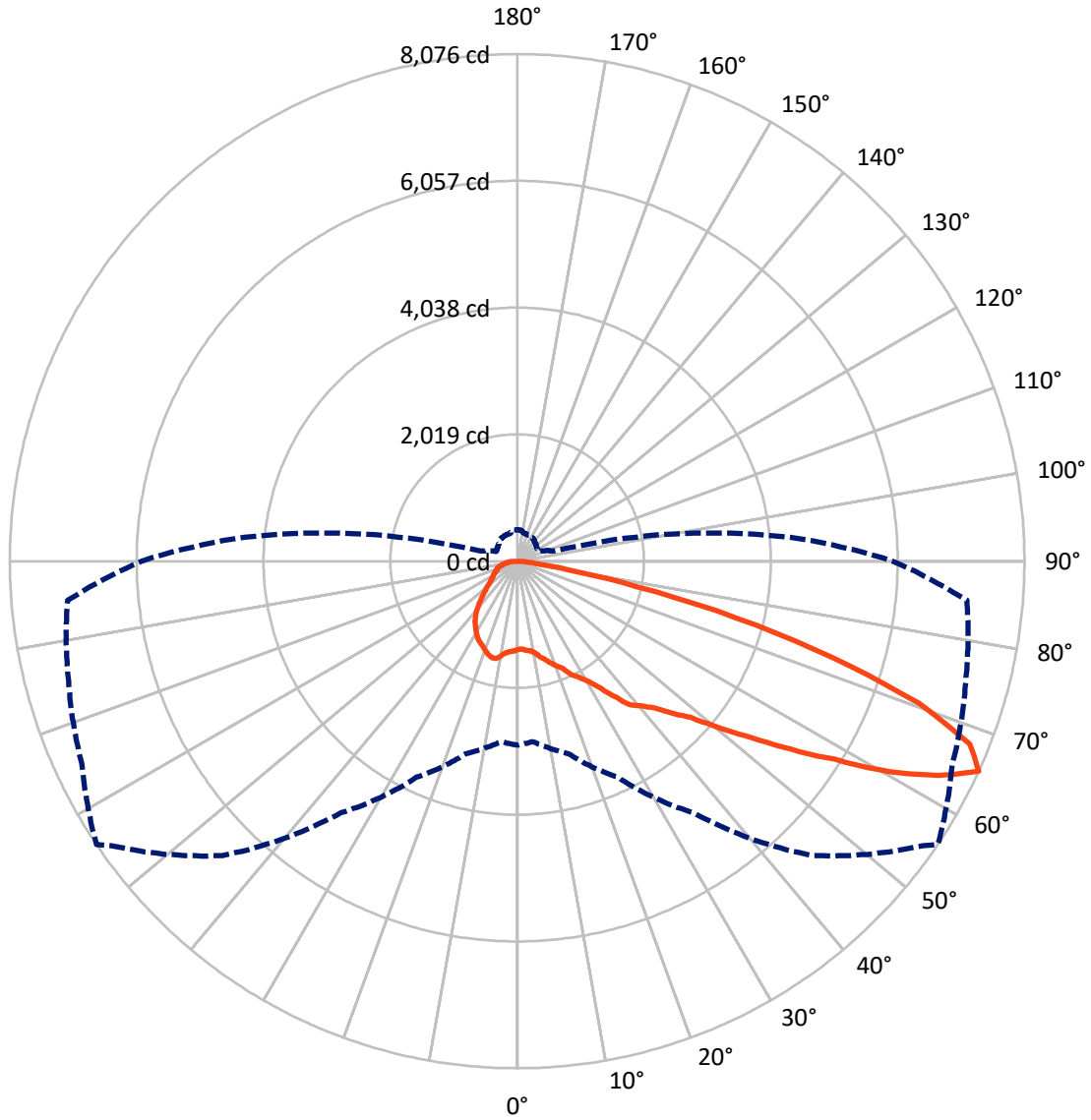
✕ Max cd  
 - - - 1/2 Max cd



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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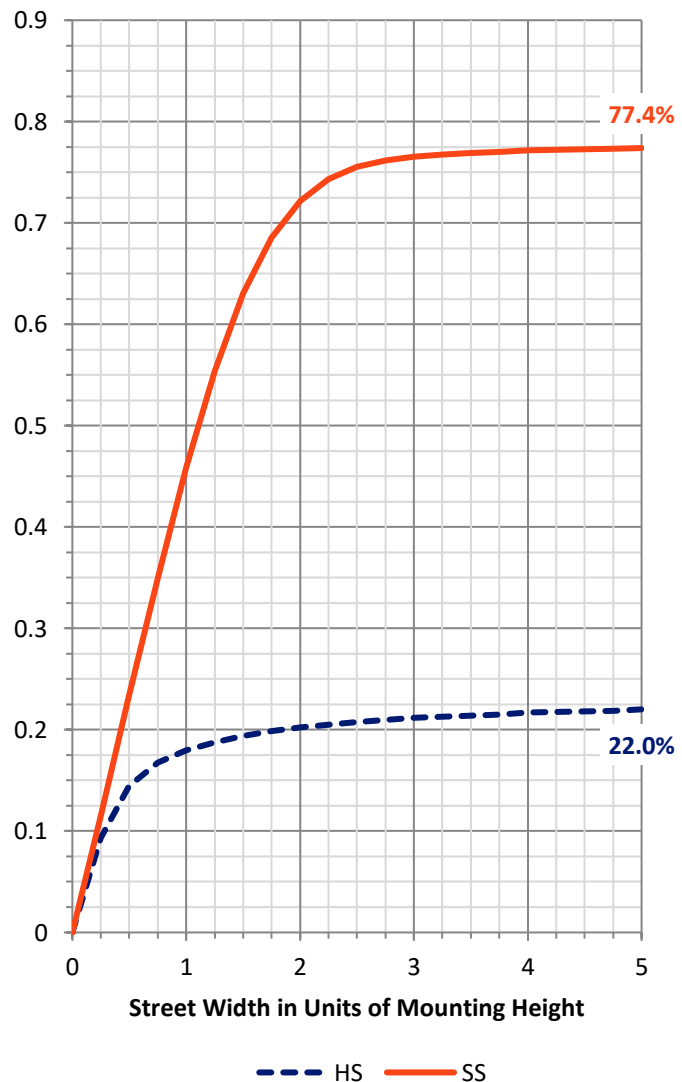
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2626.1	0.0	2626.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	9083.5	0.0	9083.5
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	11709.5	0.0	11709.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	1.2
10°-20°	452.3	3.9
20°-30°	805.3	6.9
30°-40°	1205.9	10.3
40°-50°	1786.6	15.3
50°-60°	2753.0	23.5
60°-70°	3116.7	26.6
70°-80°	1293.5	11.0
80°-90°	157.1	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°	11709.5	100.0
0°-180°	11709.5	100.0

**Coefficient of Utilization**

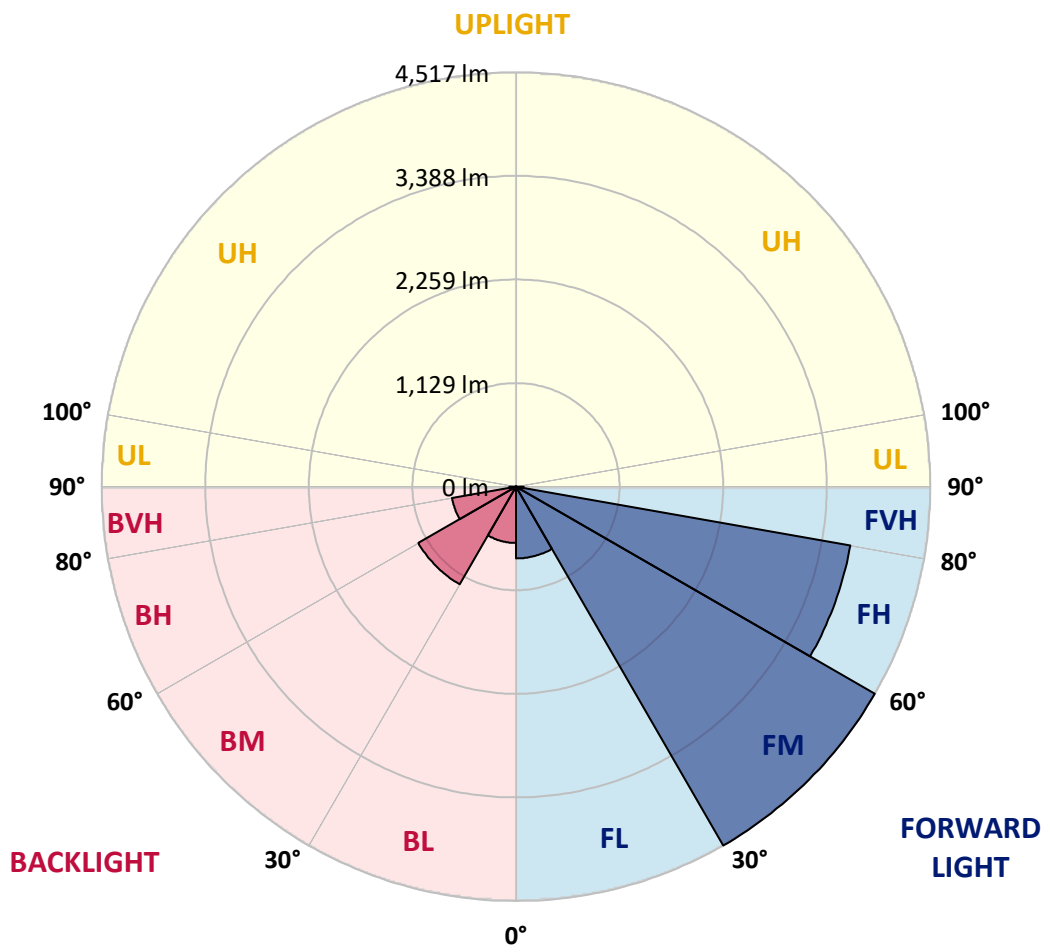


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	782.5	6.7			
FM (30°-60°)	4517.0	38.6			
FH (60°-80°)	3701.0	31.6			G2/5000
FVH (80°-90°)	82.9	0.7			G1/100
BL (0°-30°)	614.3	5.2	B2/1000		
BM (30°-60°)	1228.4	10.5	B2/2500		
BH (60°-80°)	709.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	74.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5
2.5°	1368.7	1376.1	1371.2	1385.9	1398.1	1398.1	1407.9	1400.6	1410.4	1423.9
5°	1414.1	1384.6	1400.6	1407.9	1404.3	1410.4	1400.6	1425.1	1409.2	1434.9
7.5°	1425.1	1436.1	1449.6	1437.3	1448.4	1442.2	1443.5	1439.8	1431.2	1452.0
10°	1506.0	1490.0	1520.7	1502.3	1499.8	1497.4	1492.5	1474.1	1494.9	1496.2
12.5°	1599.1	1584.4	1583.2	1568.5	1588.1	1552.5	1559.9	1550.1	1553.7	1558.6
15°	1666.5	1660.4	1688.5	1671.4	1645.6	1629.7	1646.9	1619.9	1633.4	1630.9
17.5°	1800.0	1798.8	1778.0	1749.8	1735.1	1711.8	1708.1	1697.1	1706.9	1702.0
20°	1893.2	1906.6	1910.3	1877.2	1820.9	1795.1	1789.0	1780.4	1791.5	1787.8
22.5°	2035.3	2014.5	2030.4	1972.8	1952.0	1890.7	1868.7	1856.4	1909.1	1895.6
25°	2126.0	2148.0	2132.1	2112.5	2065.9	1990.0	1974.0	2001.0	2021.8	2007.1
27.5°	2330.6	2308.6	2293.9	2235.0	2204.4	2124.8	2106.4	2096.6	2101.5	2110.1
30°	2486.2	2498.5	2465.4	2423.7	2346.5	2265.7	2222.8	2214.2	2197.1	2182.4
32.5°	2708.0	2689.6	2670.0	2643.1	2576.9	2470.3	2428.6	2396.8	2345.3	2276.7
35°	2814.6	2867.3	2852.6	2780.3	2730.1	2689.6	2677.4	2628.4	2585.5	2477.7
37.5°	2992.3	3014.4	2993.5	2970.3	2947.0	2904.1	2889.4	2902.9	2818.3	2640.6
40°	3107.5	3154.1	3196.9	3132.0	3127.1	3135.7	3045.0	3029.1	2855.1	2761.9
42.5°	3342.8	3362.4	3370.9	3368.5	3396.7	3396.7	3223.9	3189.6	3065.8	2989.9
45°	3654.0	3669.9	3700.6	3722.6	3690.8	3706.7	3460.4	3446.9	3336.6	3321.9
47.5°	3923.6	3961.6	4030.2	4095.1	4136.8	4082.9	3813.3	3717.7	3689.5	3777.8
50°	4158.8	4113.5	4274.0	4340.2	4522.8	4612.2	4203.0	4165.0	4119.6	4288.7
52.5°	4182.1	4243.4	4470.1	4602.4	4978.6	5144.0	4680.8	4664.9	4609.8	4804.6
55°	4348.8	4341.4	4569.3	4856.1	5303.3	5581.5	5303.3	5293.5	5173.4	5358.5
57.5°	4320.6	4395.3	4575.5	4976.2	5596.2	6050.8	6025.1	5957.7	5789.8	5940.5
60°	4225.0	4244.6	4464.0	4972.5	5766.5	6532.4	6804.4	6817.9	6474.8	6594.8
62.5°	3683.4	3728.7	4006.9	4581.6	5645.2	6864.4	7565.3	7517.5	7243.1	7105.8
65°	2929.8	2884.5	3173.7	3794.9	4890.4	6629.2	7898.6	8076.3	7645.0	7393.8
67.5°	1796.4	1785.3	2063.5	2611.2	3658.9	5641.5	7632.7	7771.2	7533.5	7332.5
70°	925.1	897.0	1071.0	1456.9	2300.0	4139.2	6642.6	6778.6	7005.3	6576.5
72.5°	431.3	425.2	518.3	716.8	1171.4	2433.5	5144.0	5242.1	5719.9	5544.7
75°	253.6	257.3	310.0	375.0	571.0	1146.9	3413.8	3603.8	4122.1	3995.9
77.5°	189.9	189.9	220.6	261.0	333.3	443.6	1684.9	1936.1	2410.3	2167.6
80°	139.7	142.1	169.1	196.1	231.6	229.1	669.0	784.2	1105.3	944.7
82.5°	109.1	112.7	131.1	145.8	163.0	138.5	274.5	295.3	454.6	361.5
85°	76.0	78.4	102.9	99.3	99.3	77.2	114.0	120.1	180.1	171.5
87.5°	18.4	20.8	50.2	55.1	41.7	23.3	35.5	40.4	64.9	74.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477491

CATALOG NUMBER: IFLD-S-SA2D-827-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1405.5	0°	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5	1405.5
1430.0	2.5°	1411.6	1416.5	1437.3	1426.3	1432.4	1406.7	1427.5	1410.4	1425.1	1417.7
1441.0	5°	1450.8	1439.8	1452.0	1443.5	1443.5	1453.3	1468.0	1456.9	1479.0	1469.2
1449.6	7.5°	1466.7	1468.0	1475.3	1476.5	1470.4	1501.1	1502.3	1498.6	1519.4	1514.5
1508.4	10°	1506.0	1507.2	1520.7	1528.0	1521.9	1532.9	1520.7	1510.9	1509.6	1504.7
1555.0	12.5°	1568.5	1580.7	1578.3	1584.4	1585.6	1539.0	1510.9	1463.1	1456.9	1463.1
1623.6	15°	1626.0	1621.1	1623.6	1635.8	1584.4	1509.6	1459.4	1419.0	1421.4	1422.6
1713.0	17.5°	1694.7	1698.3	1702.0	1645.6	1551.3	1463.1	1419.0	1419.0	1406.7	1411.6
1775.5	20°	1773.1	1758.4	1726.5	1646.9	1493.7	1409.2	1395.7	1395.7	1381.0	1371.2
1842.9	22.5°	1834.4	1804.9	1757.2	1608.9	1442.2	1388.3	1355.2	1332.0	1314.8	1295.2
1917.7	25°	1873.6	1857.6	1764.5	1569.7	1404.3	1333.2	1284.2	1248.6	1226.6	1200.8
1976.5	27.5°	1933.6	1903.0	1785.3	1524.3	1362.6	1278.0	1202.1	1146.9	1105.3	1078.3
2065.9	30°	2014.5	1970.4	1770.6	1459.4	1298.9	1182.5	1093.0	1021.9	974.2	952.1
2150.5	32.5°	2080.6	2023.1	1758.4	1400.6	1227.8	1085.7	966.8	894.5	867.5	839.4
2292.6	35°	2206.9	2092.9	1749.8	1367.5	1164.1	988.9	863.9	801.4	767.1	725.4
2377.2	37.5°	2303.7	2214.2	1729.0	1298.9	1082.0	894.5	785.5	729.1	677.6	633.5
2573.2	40°	2455.6	2383.3	1730.2	1202.1	985.2	813.6	724.2	665.4	600.4	562.4
2863.6	42.5°	2741.1	2550.0	1737.5	1124.9	876.1	747.5	669.0	599.2	534.3	502.4
3194.5	45°	3091.6	2779.1	1692.2	1055.0	764.6	685.0	602.9	533.0	491.4	468.1
3644.2	47.5°	3494.7	3003.3	1630.9	923.9	671.5	618.8	541.6	501.2	470.5	457.1
4223.8	50°	3945.6	3324.4	1613.8	803.8	599.2	562.4	512.2	481.6	460.7	444.8
4876.9	52.5°	4526.4	3698.1	1579.5	680.1	536.7	517.1	501.2	480.3	462.0	448.5
5485.9	55°	5081.5	4112.3	1542.7	578.4	492.6	495.0	503.6	485.2	469.3	448.5
6168.4	57.5°	5706.5	4535.0	1406.7	503.6	459.5	484.0	501.2	480.3	464.4	448.5
6866.9	60°	6092.4	4772.7	1140.8	438.7	430.1	463.2	486.5	464.4	447.3	453.4
7187.9	62.5°	6249.3	4647.8	860.2	398.2	409.3	435.0	463.2	454.6	442.4	465.6
7184.2	65°	5982.2	4359.8	615.1	363.9	381.1	406.8	442.4	452.2	455.8	501.2
6598.5	67.5°	5322.9	3796.1	452.2	335.7	351.7	389.7	457.1	473.0	470.5	526.9
5537.4	70°	4259.3	2969.0	352.9	312.5	340.6	403.1	477.9	477.9	460.7	526.9
4223.8	72.5°	3098.9	2092.9	303.9	285.5	312.5	370.1	475.4	474.2	452.2	481.6
2689.6	75°	1876.0	1218.0	268.4	258.5	268.4	317.4	454.6	447.3	416.6	414.2
1294.0	77.5°	934.9	612.7	219.3	229.1	234.0	265.9	399.5	410.5	368.8	359.0
511.0	80°	394.6	267.1	182.6	197.3	197.3	224.2	332.1	339.4	306.3	288.0
202.2	82.5°	180.1	153.2	155.6	171.5	160.5	174.0	263.5	272.0	248.7	218.1
85.8	85°	76.0	87.0	118.9	134.8	118.9	112.7	181.4	191.2	161.7	134.8
36.8	87.5°	34.3	47.8	74.7	98.0	60.0	52.7	96.8	100.5	80.9	60.0
0.0	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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<u>180°</u>
1405.5
1404.3
1455.7
1507.2
1504.7
1465.5
1439.8
1412.8
1356.5
1284.2
1205.7
1090.6
964.4
838.1
721.7
634.7
566.1
504.8
473.0
454.6
447.3
447.3
447.3
447.3
448.5
459.5
501.2
530.6
515.9
464.4
409.3
352.9
281.8
213.2
136.0
56.4
0.0

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