

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: P477919

Luminaire Tested: **IFLD-S-SA2C-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477919  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

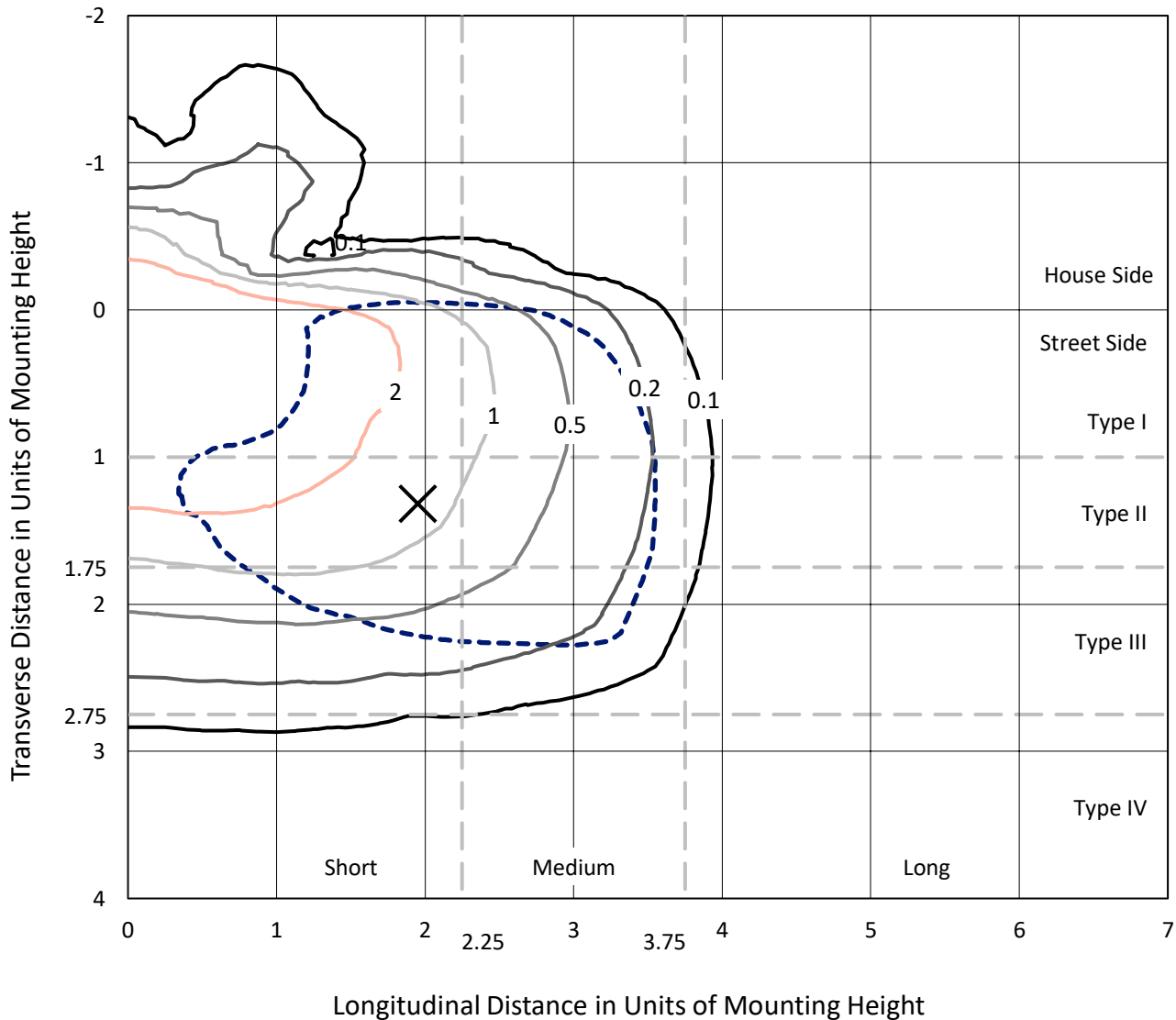
Lumens per Lamp: N/A  
Luminaire Lumens: 11094 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2  
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

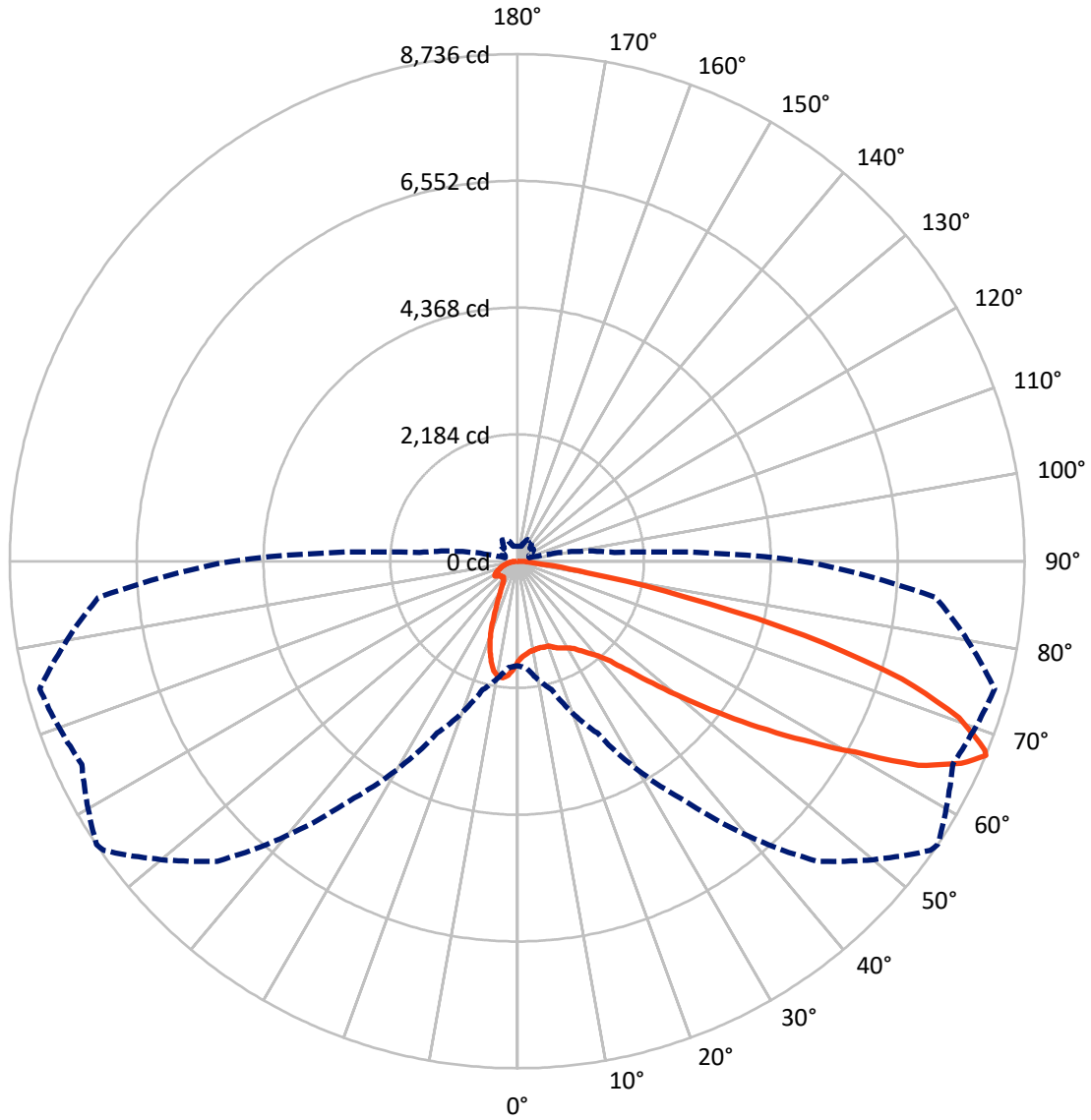
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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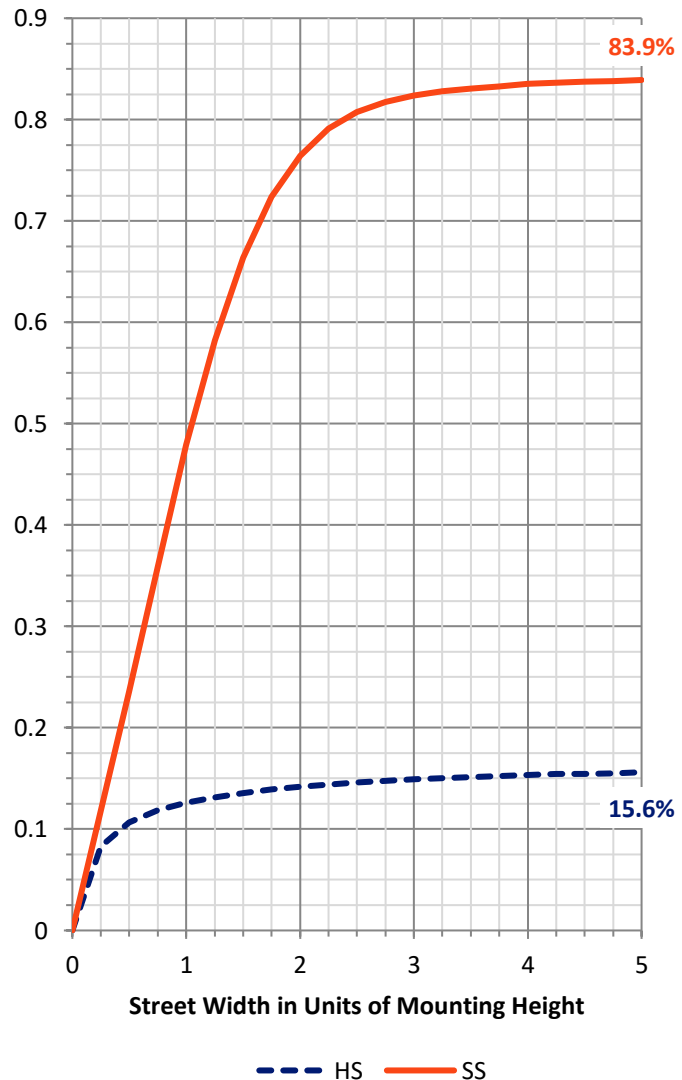
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1756.3	0.0	1756.3
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	9337.7	0.0	9337.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	11094.0	0.0	11094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.3	1.5
10°-20°	453.7	4.1
20°-30°	711.5	6.4
30°-40°	1015.7	9.2
40°-50°	1533.0	13.8
50°-60°	2440.2	22.0
60°-70°	3119.6	28.1
70°-80°	1521.0	13.7
80°-90°	133.1	1.2
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°	11094.0	100.0
0°-180°	11094.0	100.0

**Coefficient of Utilization**

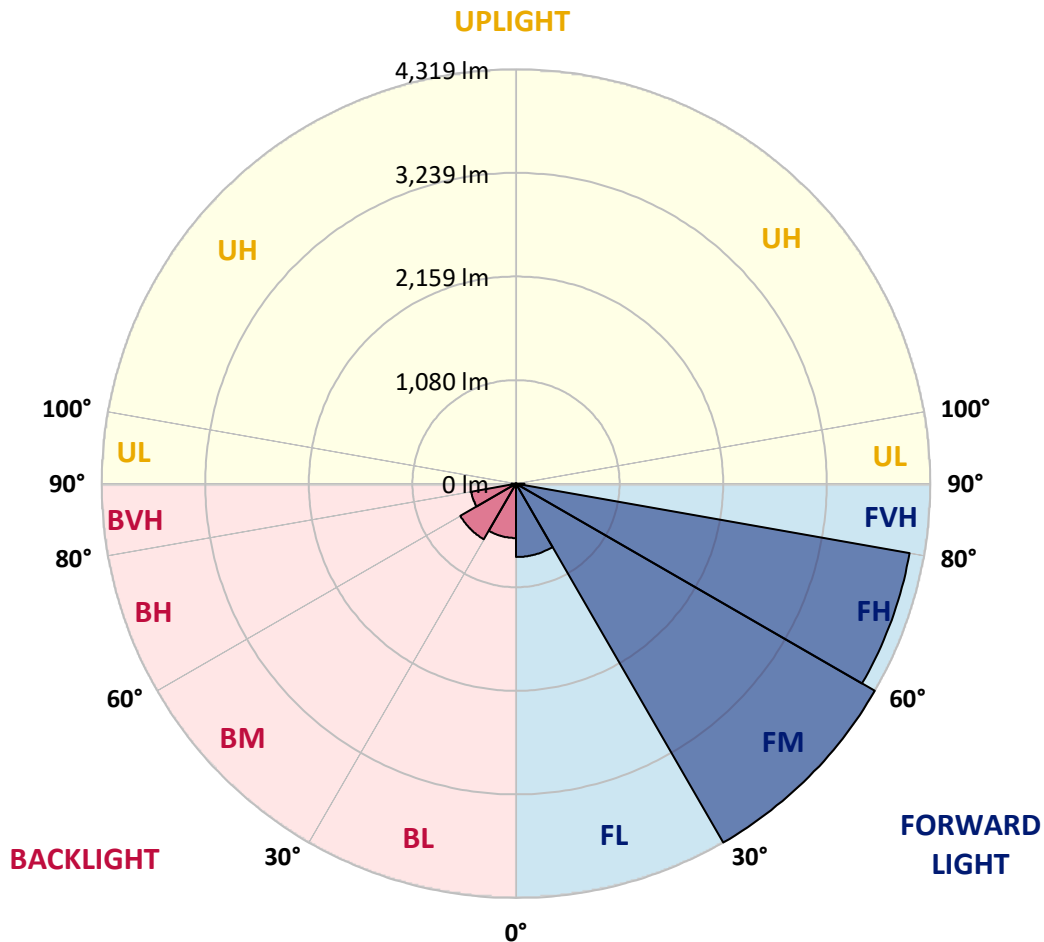


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	764.5	6.9			
FM (30°-60°)	4318.8	38.9			
FH (60°-80°)	4166.1	37.6			G2/5000
FVH (80°-90°)	88.4	0.8			G1/100
BL (0°-30°)	567.0	5.1	B2/1000		
BM (30°-60°)	670.0	6.0	B1/1000		
BH (60°-80°)	474.6	4.3	B1/500		G1/500
BVH (80°-90°)	44.7	0.4			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°	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2
2.5°	1585.7	1579.2	1587.0	1579.2	1614.3	1635.1	1641.6	1650.8	1683.3	1714.5
5°	1519.4	1490.8	1522.0	1532.4	1535.0	1570.1	1606.5	1613.0	1629.9	1680.7
7.5°	1408.8	1441.3	1429.6	1460.8	1493.4	1528.5	1588.3	1571.4	1633.8	1682.0
10°	1385.4	1388.0	1401.0	1412.7	1441.3	1486.8	1570.1	1559.7	1623.4	1726.2
12.5°	1408.8	1408.8	1404.9	1395.8	1428.3	1472.5	1538.9	1544.1	1644.2	1739.2
15°	1490.8	1506.4	1464.7	1471.2	1458.2	1472.5	1531.1	1542.8	1652.1	1749.6
17.5°	1691.1	1685.9	1636.4	1567.5	1510.3	1501.2	1541.5	1554.5	1644.2	1779.5
20°	1886.2	1875.8	1789.9	1718.4	1605.2	1551.9	1558.4	1559.7	1657.3	1799.0
22.5°	2103.4	2130.8	2037.1	1891.4	1750.9	1618.2	1592.2	1613.0	1687.2	1809.5
25°	2444.3	2385.7	2305.1	2113.8	1887.5	1721.0	1648.2	1658.6	1715.8	1835.5
27.5°	2690.1	2666.7	2540.5	2385.7	2078.7	1801.6	1678.1	1697.6	1767.8	1834.2
30°	2926.9	2926.9	2850.1	2618.6	2280.4	1936.9	1741.8	1732.7	1743.1	1831.6
32.5°	3203.9	3166.2	3055.7	2902.2	2534.0	2060.5	1792.5	1795.1	1795.1	1879.7
35°	3349.6	3410.8	3336.6	3086.9	2727.8	2266.0	1914.8	1895.3	1881.0	1933.0
37.5°	3563.0	3599.4	3521.3	3374.4	2968.5	2432.6	2022.8	2007.2	1923.9	1974.7
40°	3691.8	3685.3	3682.7	3615.0	3287.2	2629.0	2181.5	2141.2	2029.3	2121.7
42.5°	3764.6	3751.6	3911.6	3870.0	3587.7	2917.8	2380.5	2358.4	2234.8	2383.1
45°	3846.6	3942.8	4074.2	4191.3	3937.6	3323.6	2717.4	2686.2	2575.6	2764.3
47.5°	3918.1	4036.5	4204.3	4329.2	4253.7	3764.6	3133.7	3141.5	3068.7	3262.5
50°	4037.8	4049.5	4277.1	4529.5	4588.0	4171.8	3693.1	3680.0	3647.5	3919.4
52.5°	4001.4	4036.5	4324.0	4646.6	4742.8	4602.3	4294.0	4333.1	4290.1	4632.3
55°	3408.2	3513.5	4295.3	4770.1	5109.7	5088.8	5066.7	5040.7	5038.1	5433.6
57.5°	3138.9	3224.8	3784.1	4906.7	5502.5	5656.0	5799.1	5827.7	5826.4	6303.8
60°	2962.0	3050.4	3577.3	4832.6	5836.8	6398.8	6673.3	6677.2	6669.4	7233.9
62.5°	2616.0	2701.8	3219.6	4426.7	5929.2	7084.3	7695.7	7746.4	7388.7	8035.2
65°	2199.7	2269.9	2726.5	3806.2	5683.3	7520.1	8464.5	8404.7	7994.9	8493.1
67°	1799.0	1845.9	2290.8	3267.7	5040.7	7310.7	8686.9	8736.4	8274.6	8512.6
67.5°	1684.6	1727.5	2147.7	3084.3	4796.2	7152.0	8694.7	8686.9	8279.8	8516.5
70°	1169.4	1187.7	1463.4	2121.7	3533.1	6042.4	8059.9	8078.2	7932.5	8054.7
72.5°	775.3	802.6	978.2	1337.3	2082.6	4396.8	6737.0	6932.1	6839.8	6604.3
75°	499.5	515.1	640.0	796.1	1025.1	2504.1	4977.0	5107.1	4895.0	4084.6
77.5°	279.7	296.6	386.3	483.9	499.5	1042.0	2795.5	2956.8	2505.4	1735.3
80°	174.3	196.4	291.4	287.5	238.1	382.4	1152.5	1234.5	1001.6	597.1
82.5°	131.4	148.3	225.0	201.6	134.0	170.4	431.9	463.1	366.8	230.2
85°	89.8	113.2	162.6	124.9	70.2	82.0	171.7	184.7	167.8	111.9
87.5°	32.5	48.1	84.6	62.4	31.2	24.7	55.9	62.4	59.8	50.7
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°
1726.2	0°	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2	1726.2
1741.8	2.5°	1766.5	1784.7	1793.8	1847.2	1869.3	1865.4	1870.6	1878.4	1886.2	1896.6
1763.9	5°	1780.8	1836.8	1866.7	1929.1	1970.8	1952.5	1976.0	1969.5	1960.4	1959.1
1804.3	7.5°	1827.7	1899.2	1989.0	2005.9	2024.1	1978.6	1939.5	1886.2	1873.2	1827.7
1838.1	10°	1910.9	1969.5	2078.7	2085.2	2004.6	1887.5	1800.3	1689.8	1688.5	1622.1
1890.1	12.5°	1990.3	2056.6	2145.1	2107.3	1914.8	1754.8	1613.0	1492.1	1441.3	1407.5
1921.3	15°	2039.7	2149.0	2195.8	2033.2	1757.4	1541.5	1358.1	1228.0	1176.0	1151.2
1960.4	17.5°	2085.2	2237.4	2216.6	1903.1	1563.6	1321.6	1103.1	989.9	975.6	957.4
2022.8	20°	2147.7	2269.9	2142.5	1734.0	1343.8	1038.1	898.9	844.2	857.2	865.1
2029.3	22.5°	2206.2	2286.9	2048.8	1549.3	1061.5	822.1	753.2	764.9	784.4	810.4
2044.9	25°	2232.2	2314.2	1922.6	1294.3	807.8	692.0	676.4	695.9	728.5	729.8
2067.0	27.5°	2249.1	2294.7	1770.4	1045.9	638.7	604.9	628.3	642.6	646.5	662.1
2113.8	30°	2279.1	2254.3	1577.9	748.0	535.9	537.2	567.2	567.2	567.2	578.9
2160.7	32.5°	2331.1	2227.0	1352.9	546.3	461.8	503.4	495.6	493.0	487.8	473.5
2220.5	35°	2363.6	2152.9	1068.0	404.6	415.0	461.8	459.2	418.9	351.2	317.4
2372.7	37.5°	2431.3	2115.1	785.7	312.2	387.6	441.0	426.7	329.1	255.0	222.4
2561.3	40°	2576.9	2090.4	543.7	273.2	369.4	430.6	381.1	281.0	195.1	137.9
2852.7	42.5°	2755.2	2091.7	369.4	257.6	370.7	452.7	366.8	240.7	137.9	110.6
3241.7	45°	2994.5	2072.2	253.7	257.6	394.2	489.1	375.9	218.5	134.0	140.5
3729.5	47.5°	3252.1	2089.1	188.6	234.1	398.1	490.4	343.4	214.6	128.8	162.6
4260.2	50°	3552.6	2106.0	156.1	215.9	399.4	474.8	316.1	209.4	134.0	171.7
4869.0	52.5°	3862.2	2159.4	132.7	204.2	415.0	468.3	316.1	217.2	134.0	149.6
5644.3	55°	4324.0	2296.0	191.2	255.0	472.2	511.2	388.9	304.4	187.3	192.5
6387.1	57.5°	4833.9	2436.5	213.3	268.0	485.2	460.5	418.9	335.6	197.7	199.0
6964.6	60°	5169.5	2441.7	212.0	261.5	454.0	398.1	409.8	353.8	201.6	170.4
7322.4	62.5°	5303.5	2283.0	221.1	261.5	422.8	372.0	420.2	381.1	208.1	213.3
7423.8	65°	5151.3	1955.1	213.3	234.1	372.0	333.0	422.8	386.3	227.6	214.6
7241.7	67°	4913.2	1684.6	217.2	222.4	346.0	316.1	444.9	405.9	264.1	257.6
7146.8	67.5°	4845.6	1613.0	215.9	215.9	336.9	310.9	450.1	405.9	269.3	266.7
6307.7	70°	4270.6	1307.3	221.1	213.3	297.9	295.3	478.7	428.0	309.6	312.2
4633.6	72.5°	3250.8	991.2	219.8	213.3	258.9	282.3	482.6	442.3	336.9	312.2
2595.2	75°	1847.2	593.2	193.8	186.0	204.2	245.9	451.4	421.5	327.8	279.7
1036.8	77.5°	763.6	305.7	178.2	167.8	169.1	200.3	375.9	392.9	312.2	238.1
346.0	80°	284.9	183.4	143.1	134.0	130.1	147.0	268.0	313.5	266.7	195.1
152.2	82.5°	148.3	114.5	97.6	97.6	88.5	93.7	144.4	208.1	201.6	134.0
61.1	85°	75.4	65.0	55.9	54.6	49.4	44.2	72.8	123.6	115.8	74.1
27.3	87.5°	40.3	36.4	23.4	22.1	18.2	11.7	13.0	24.7	40.3	32.5
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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180°
1726.2
1907.0
1970.8
1843.3
1619.5
1399.7
1146.0
966.5
855.9
796.1
742.8
676.4
591.9
465.7
333.0
221.1
134.0
108.0
143.1
180.8
199.0
153.5
202.9
192.5
175.6
215.9
210.7
253.7
261.5
288.8
277.1
249.8
225.0
178.2
105.4
61.1
23.4
0.0

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