

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: P477221

Luminaire Tested: **IFLD-S-SA3B-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477221  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-722-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

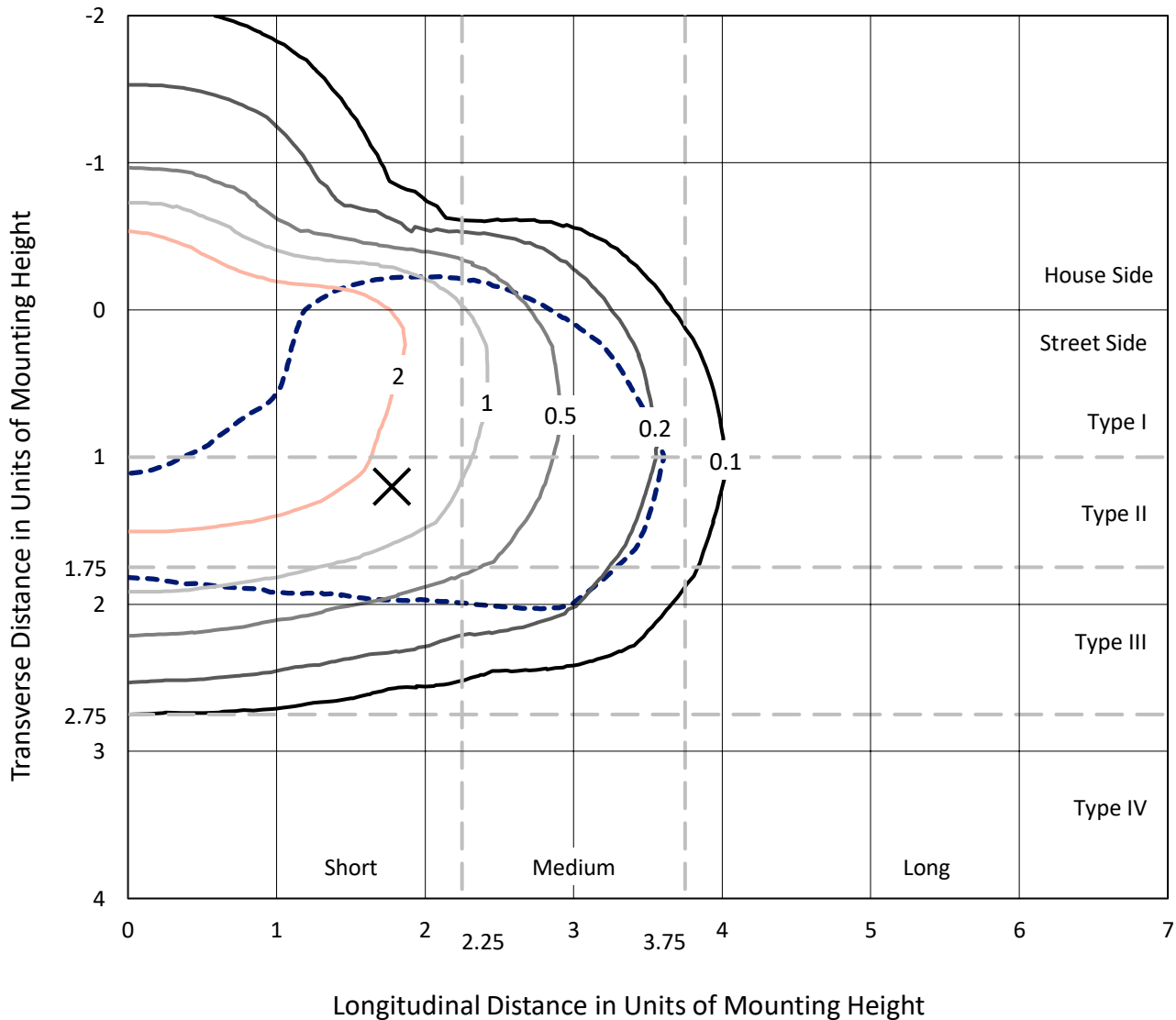
Lumens per Lamp: N/A  
Luminaire Lumens: 12766 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4  
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

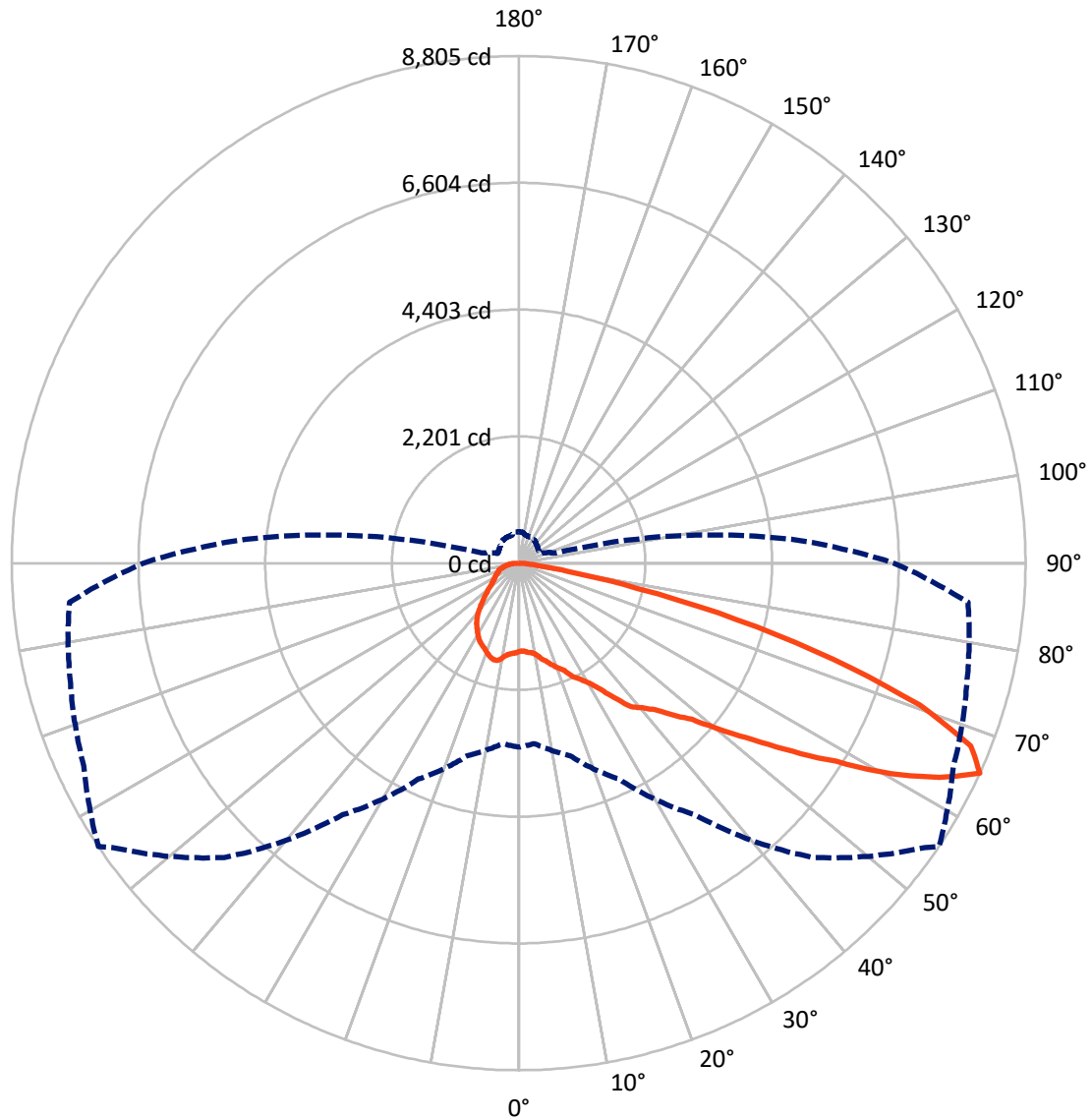
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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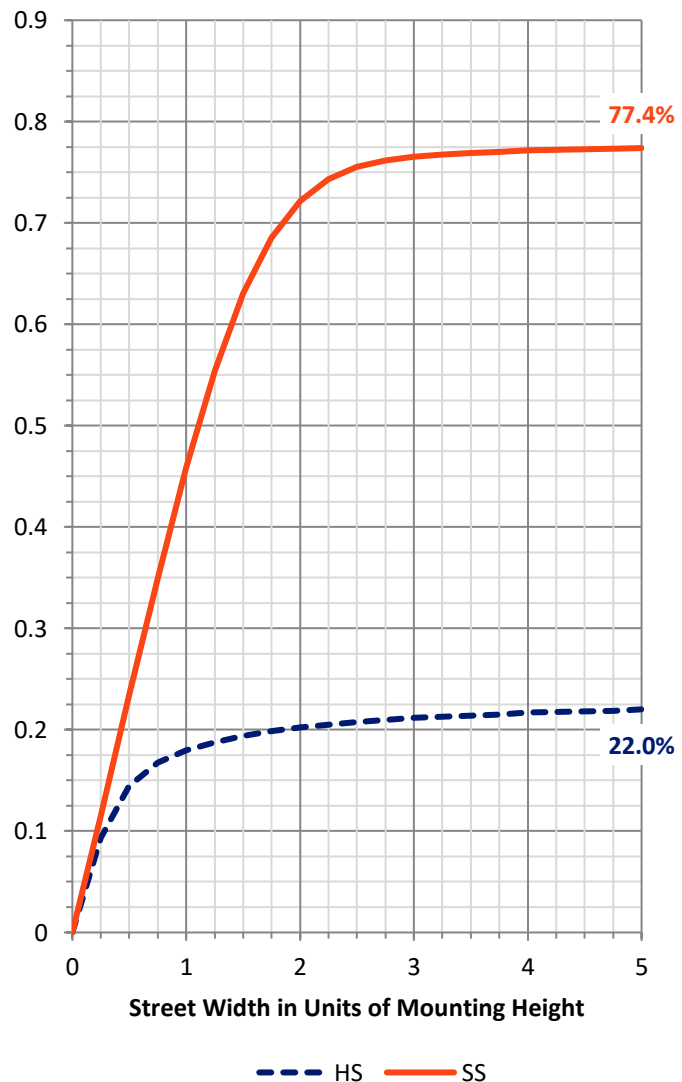
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2863.0	0.0	2863.0
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	9903.0	0.0	9903.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	12766.0	0.0	12766.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	1.2
10°-20°	493.1	3.9
20°-30°	877.9	6.9
30°-40°	1314.7	10.3
40°-50°	1947.8	15.3
50°-60°	3001.3	23.5
60°-70°	3397.9	26.6
70°-80°	1410.2	11.0
80°-90°	171.3	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°	12766.0	100.0
0°-180°	12766.0	100.0

**Coefficient of Utilization**

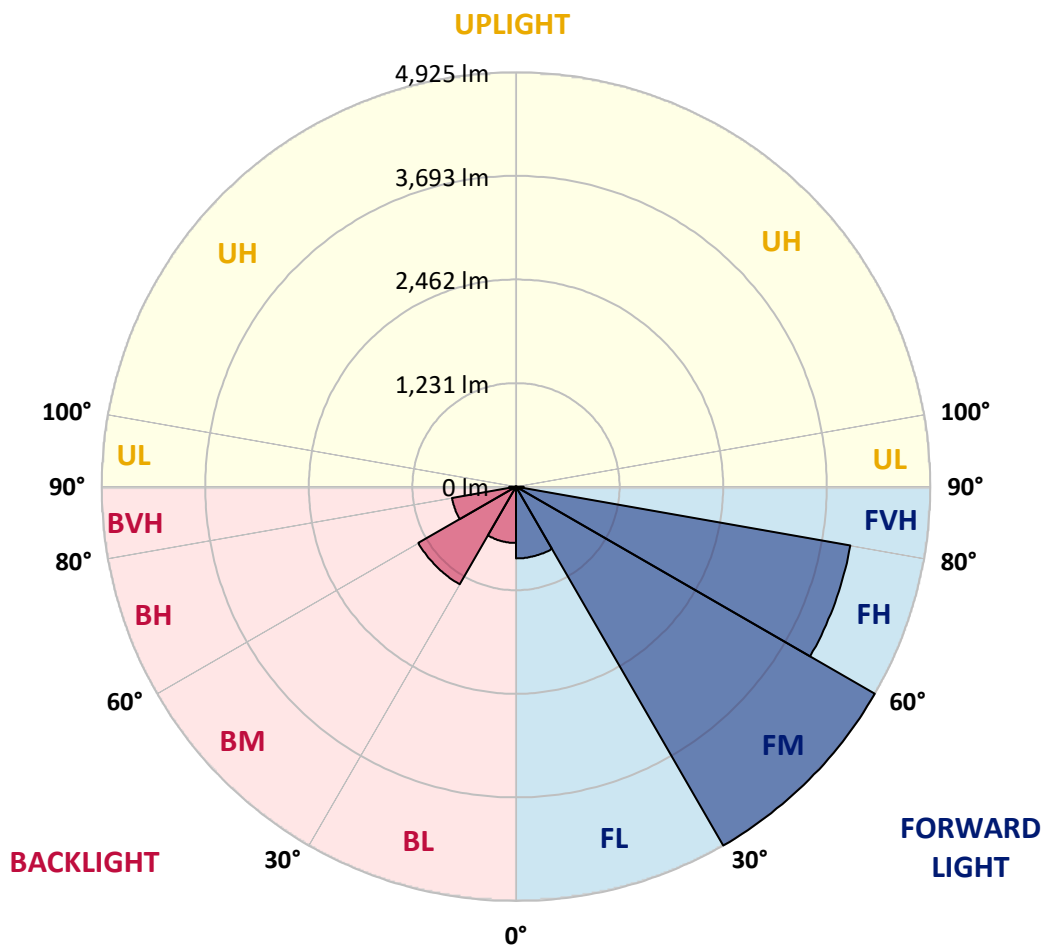


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.1	6.7			
FM (30°-60°)	4924.6	38.6			
FH (60°-80°)	4034.9	31.6			G2/5000
FVH (80°-90°)	90.4	0.7			G1/100
BL (0°-30°)	669.7	5.2	B2/1000		
BM (30°-60°)	1339.3	10.5	B2/2500		
BH (60°-80°)	773.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	80.9	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°	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3
2.5°	1492.2	1500.2	1494.9	1510.9	1524.3	1524.3	1535.0	1526.9	1537.6	1552.3
5°	1541.6	1509.6	1526.9	1535.0	1531.0	1537.6	1526.9	1553.7	1536.3	1564.3
7.5°	1553.7	1565.7	1580.4	1567.0	1579.0	1572.4	1573.7	1569.7	1560.3	1583.1
10°	1641.8	1624.5	1657.9	1637.8	1635.2	1632.5	1627.1	1607.1	1629.8	1631.1
12.5°	1743.4	1727.3	1726.0	1710.0	1731.3	1692.6	1700.6	1689.9	1693.9	1699.3
15°	1816.8	1810.2	1840.9	1822.2	1794.1	1776.8	1795.5	1766.1	1780.8	1778.1
17.5°	1962.4	1961.1	1938.4	1907.7	1891.6	1866.3	1862.3	1850.2	1860.9	1855.6
20°	2064.0	2078.7	2082.7	2046.6	1985.2	1957.1	1950.4	1941.1	1953.1	1949.1
22.5°	2218.9	2196.2	2213.6	2150.8	2128.1	2061.3	2037.3	2023.9	2081.3	2066.6
25°	2317.8	2341.8	2324.5	2303.1	2252.3	2169.5	2152.1	2181.5	2204.2	2188.2
27.5°	2540.9	2516.9	2500.8	2436.7	2403.3	2316.5	2296.4	2285.7	2291.1	2300.4
30°	2710.6	2723.9	2687.8	2642.4	2558.3	2470.1	2423.3	2414.0	2395.3	2379.3
32.5°	2952.4	2932.3	2910.9	2881.6	2809.4	2693.2	2647.8	2613.0	2556.9	2482.1
35°	3068.6	3126.0	3110.0	3031.2	2976.4	2932.3	2919.0	2865.5	2818.8	2701.2
37.5°	3262.3	3286.3	3263.6	3238.2	3212.9	3166.1	3150.1	3164.8	3072.6	2878.9
40°	3387.9	3438.6	3485.4	3414.6	3409.2	3418.6	3319.7	3302.4	3112.7	3011.1
42.5°	3644.4	3665.7	3675.1	3672.4	3703.1	3703.1	3514.8	3477.4	3342.4	3259.6
45°	3983.7	4001.0	4034.4	4058.5	4023.8	4041.1	3772.6	3757.9	3637.7	3621.6
47.5°	4277.6	4319.0	4393.8	4464.6	4510.0	4451.2	4157.3	4053.1	4022.4	4118.6
50°	4534.1	4484.6	4659.6	4731.8	4930.8	5028.4	4582.2	4540.8	4491.3	4675.7
52.5°	4559.5	4626.2	4873.4	5017.7	5427.8	5608.1	5103.2	5085.8	5025.7	5238.1
55°	4741.1	4733.1	4981.6	5294.2	5781.8	6085.1	5781.8	5771.1	5640.2	5841.9
57.5°	4710.4	4791.9	4988.3	5425.1	6101.1	6596.7	6568.7	6495.2	6312.2	6476.5
60°	4606.2	4627.6	4866.7	5421.1	6286.8	7121.7	7418.3	7433.0	7058.9	7189.9
62.5°	4015.7	4065.2	4368.4	4995.0	6154.5	7483.8	8247.9	8195.8	7896.6	7746.9
65°	3194.2	3144.7	3460.0	4137.3	5331.6	7227.3	8611.3	8805.0	8334.7	8060.9
67.5°	1958.4	1946.4	2249.7	2846.8	3989.0	6150.5	8321.4	8472.3	8213.2	7994.1
70°	1008.6	977.9	1167.6	1588.4	2507.5	4512.7	7242.0	7390.2	7637.4	7169.8
72.5°	470.2	463.6	565.1	781.5	1277.1	2653.1	5608.1	5715.0	6236.0	6045.0
75°	276.5	280.5	338.0	408.8	622.5	1250.4	3721.8	3928.9	4494.0	4356.4
77.5°	207.1	207.1	240.5	284.5	363.4	483.6	1836.9	2110.7	2627.7	2363.2
80°	152.3	155.0	184.4	213.7	252.5	249.8	729.4	855.0	1205.0	1030.0
82.5°	118.9	122.9	142.9	159.0	177.7	151.0	299.2	322.0	495.6	394.1
85°	82.8	85.5	112.2	108.2	108.2	84.2	124.2	130.9	196.4	187.0
87.5°	20.0	22.7	54.8	60.1	45.4	25.4	38.7	44.1	70.8	81.5
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°
1532.3	0°	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3	1532.3
1559.0	2.5°	1539.0	1544.3	1567.0	1555.0	1561.7	1533.6	1556.3	1537.6	1553.7	1545.6
1571.0	5°	1581.7	1569.7	1583.1	1573.7	1573.7	1584.4	1600.4	1588.4	1612.4	1601.8
1580.4	7.5°	1599.1	1600.4	1608.4	1609.8	1603.1	1636.5	1637.8	1633.8	1656.5	1651.2
1644.5	10°	1641.8	1643.2	1657.9	1665.9	1659.2	1671.2	1657.9	1647.2	1645.8	1640.5
1695.3	12.5°	1710.0	1723.3	1720.6	1727.3	1728.7	1677.9	1647.2	1595.1	1588.4	1595.1
1770.1	15°	1772.7	1767.4	1770.1	1783.4	1727.3	1645.8	1591.1	1547.0	1549.7	1551.0
1867.6	17.5°	1847.6	1851.6	1855.6	1794.1	1691.3	1595.1	1547.0	1547.0	1533.6	1539.0
1935.7	20°	1933.1	1917.0	1882.3	1795.5	1628.5	1536.3	1521.6	1521.6	1505.6	1494.9
2009.2	22.5°	1999.9	1967.8	1915.7	1754.0	1572.4	1513.6	1477.5	1452.1	1433.4	1412.1
2090.7	25°	2042.6	2025.2	1923.7	1711.3	1531.0	1453.5	1400.0	1361.3	1337.2	1309.2
2154.8	27.5°	2108.1	2074.7	1946.4	1661.9	1485.5	1393.4	1310.5	1250.4	1205.0	1175.6
2252.3	30°	2196.2	2148.1	1930.4	1591.1	1416.1	1289.2	1191.6	1114.1	1062.0	1038.0
2344.5	32.5°	2268.4	2205.6	1917.0	1526.9	1338.6	1183.6	1054.0	975.2	945.8	915.1
2499.5	35°	2406.0	2281.7	1907.7	1490.9	1269.1	1078.1	941.8	873.7	836.3	790.9
2591.7	37.5°	2511.5	2414.0	1885.0	1416.1	1179.6	975.2	856.3	794.9	738.8	690.7
2805.4	40°	2677.2	2598.3	1886.3	1310.5	1074.1	887.0	789.5	725.4	654.6	613.2
3122.0	42.5°	2988.4	2780.0	1894.3	1226.4	955.2	814.9	729.4	653.3	582.5	547.7
3482.7	45°	3370.5	3029.8	1844.9	1150.2	833.6	746.8	657.3	581.1	535.7	510.3
3973.0	47.5°	3810.0	3274.3	1778.1	1007.3	732.1	674.6	590.5	546.4	513.0	498.3
4604.9	50°	4301.6	3624.3	1759.4	876.4	653.3	613.2	558.4	525.0	502.3	484.9
5316.9	52.5°	4934.8	4031.8	1722.0	741.4	585.1	563.8	546.4	523.7	503.6	488.9
5980.9	55°	5540.0	4483.3	1681.9	630.5	537.0	539.7	549.1	529.0	511.7	488.9
6725.0	57.5°	6221.3	4944.2	1533.6	549.1	501.0	527.7	546.4	523.7	506.3	488.9
7486.4	60°	6642.1	5203.4	1243.7	478.3	468.9	505.0	530.4	506.3	487.6	494.3
7836.4	62.5°	6813.1	5067.1	937.8	434.2	446.2	474.2	505.0	495.6	482.3	507.6
7832.4	65°	6521.9	4753.2	670.6	396.8	415.5	443.5	482.3	493.0	497.0	546.4
7193.9	67.5°	5803.2	4138.6	493.0	366.0	383.4	424.8	498.3	515.7	513.0	574.4
6037.0	70°	4643.6	3236.9	384.7	340.7	371.4	439.5	521.0	521.0	502.3	574.4
4604.9	72.5°	3378.5	2281.7	331.3	311.3	340.7	403.4	518.3	517.0	493.0	525.0
2932.3	75°	2045.3	1327.9	292.6	281.9	292.6	346.0	495.6	487.6	454.2	451.5
1410.7	77.5°	1019.3	668.0	239.1	249.8	255.2	289.9	435.5	447.5	402.1	391.4
557.1	80°	430.2	291.2	199.1	215.1	215.1	244.5	362.0	370.0	334.0	313.9
220.4	82.5°	196.4	167.0	169.7	187.0	175.0	189.7	287.2	296.6	271.2	237.8
93.5	85°	82.8	94.8	129.6	146.9	129.6	122.9	197.7	208.4	176.3	146.9
40.1	87.5°	37.4	52.1	81.5	106.9	65.5	57.4	105.5	109.5	88.2	65.5
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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<u>180°</u>
1532.3
1531.0
1587.1
1643.2
1640.5
1597.7
1569.7
1540.3
1478.9
1400.0
1314.5
1189.0
1051.4
913.8
786.8
692.0
617.2
550.4
515.7
495.6
487.6
487.6
487.6
487.6
488.9
501.0
546.4
578.4
562.4
506.3
446.2
384.7
307.3
232.4
148.3
61.5
0.0

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