

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: P477376

Luminaire Tested: **IFLD-S-SA3A-740-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477376  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

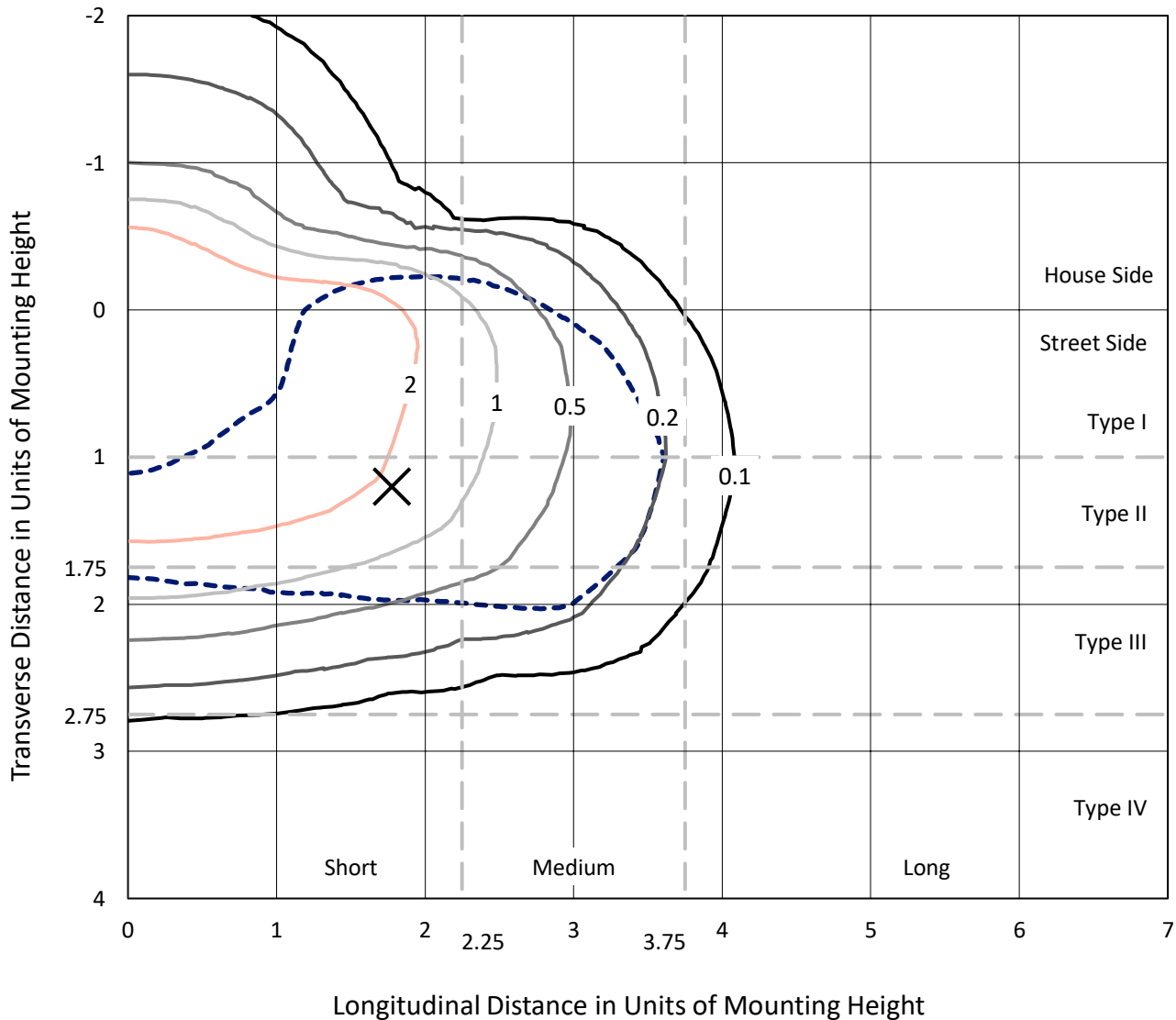
Lumens per Lamp: N/A  
Luminaire Lumens: 14013.3 lumens  
Efficiency: N/A  
Efficacy: 147.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): 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

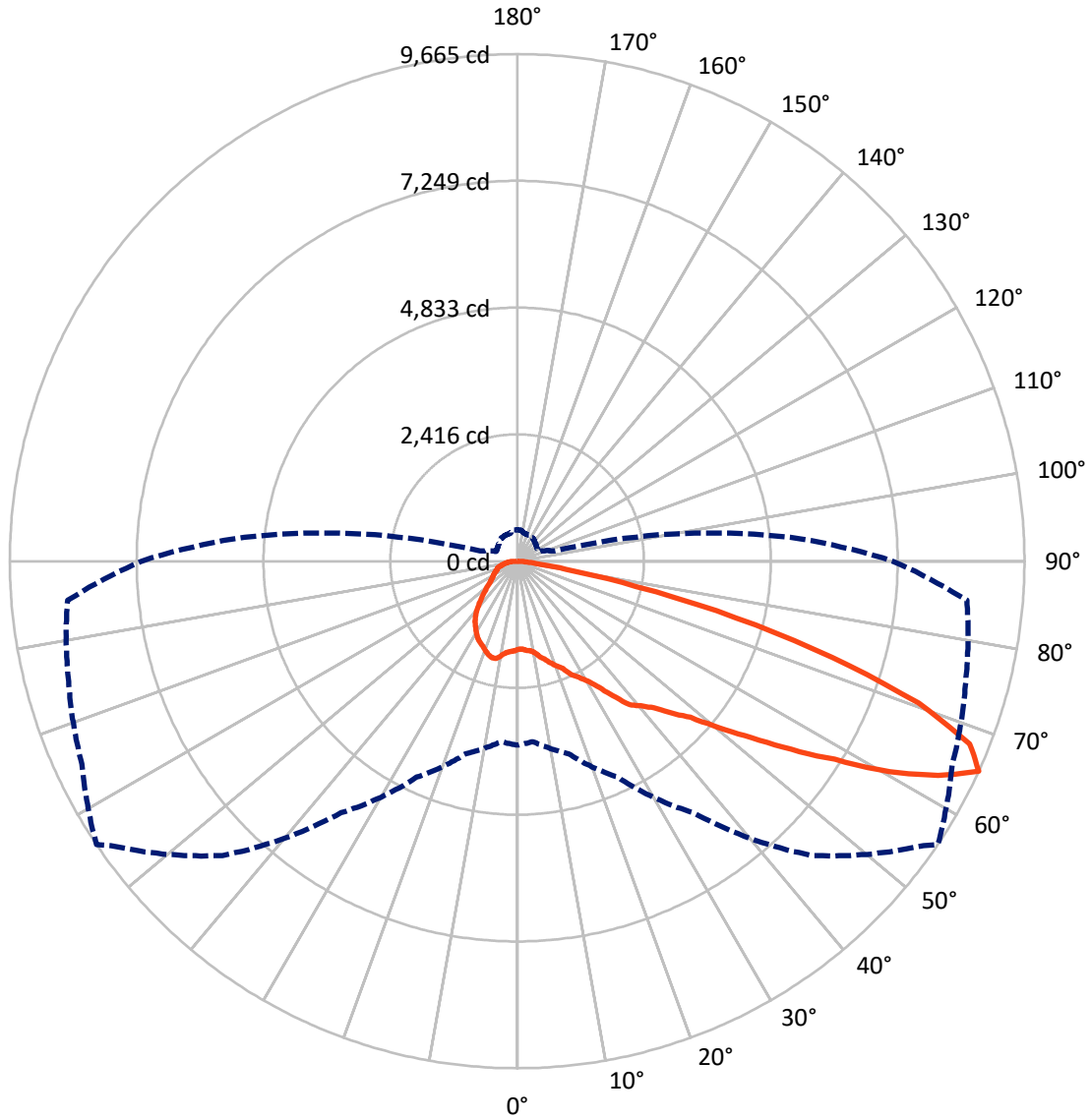
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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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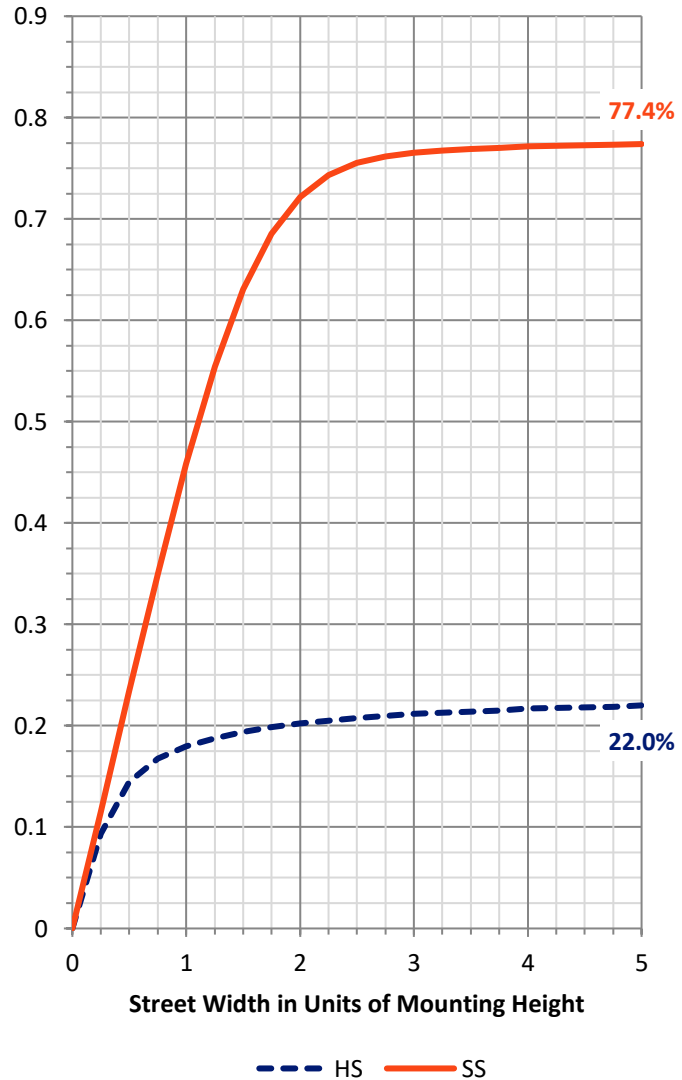
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3142.7	0.0	3142.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10870.6	0.0	10870.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	14013.3	0.0	14013.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.7	1.2
10°-20°	541.2	3.9
20°-30°	963.7	6.9
30°-40°	1443.1	10.3
40°-50°	2138.2	15.3
50°-60°	3294.6	23.5
60°-70°	3729.9	26.6
70°-80°	1547.9	11.0
80°-90°	188.1	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°	14013.3	100.0
0°-180°	14013.3	100.0

**Coefficient of Utilization**

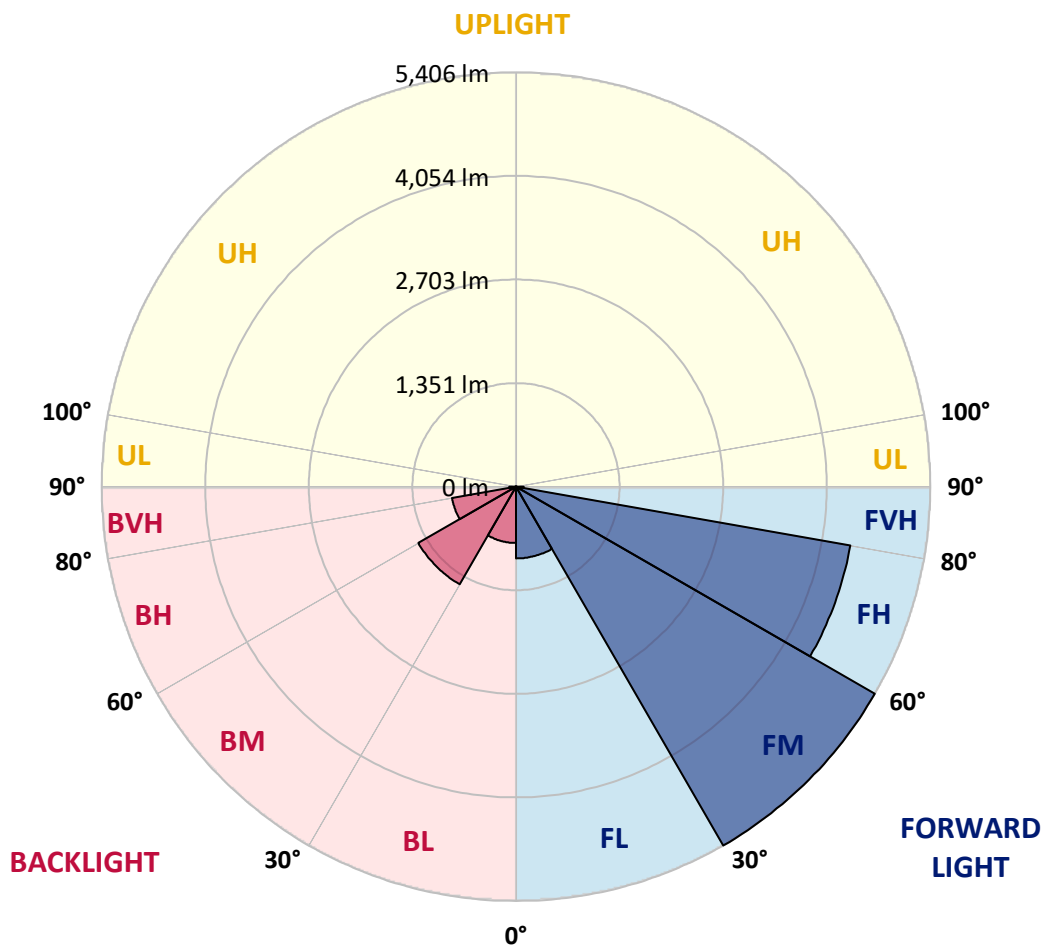


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.5	6.7			
FM (30°-60°)	5405.7	38.6			
FH (60°-80°)	4429.2	31.6			G2/5000
FVH (80°-90°)	99.2	0.7			G1/100
BL (0°-30°)	735.1	5.2	B2/1000		
BM (30°-60°)	1470.1	10.5	B2/2500		
BH (60°-80°)	848.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	88.9	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°	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0
2.5°	1638.0	1646.8	1640.9	1658.5	1673.2	1673.2	1684.9	1676.1	1687.9	1704.0
5°	1692.3	1657.1	1676.1	1684.9	1680.5	1687.9	1676.1	1705.5	1686.4	1717.2
7.5°	1705.5	1718.7	1734.8	1720.1	1733.3	1726.0	1727.5	1723.1	1712.8	1737.7
10°	1802.2	1783.2	1819.8	1797.8	1794.9	1792.0	1786.1	1764.1	1789.1	1790.5
12.5°	1913.7	1896.1	1894.6	1877.0	1900.5	1858.0	1866.8	1855.0	1859.4	1865.3
15°	1994.4	1987.0	2020.7	2000.2	1969.4	1950.4	1970.9	1938.6	1954.8	1951.8
17.5°	2154.2	2152.7	2127.8	2094.1	2076.5	2048.6	2044.2	2031.0	2042.7	2036.9
20°	2265.6	2281.8	2286.2	2246.6	2179.1	2148.3	2141.0	2130.7	2143.9	2139.5
22.5°	2435.7	2410.8	2429.9	2361.0	2336.0	2262.7	2236.3	2221.6	2284.7	2268.6
25°	2544.3	2570.7	2551.6	2528.1	2472.4	2381.5	2362.4	2394.7	2419.6	2402.0
27.5°	2789.2	2762.8	2745.2	2674.8	2638.1	2542.8	2520.8	2509.1	2514.9	2525.2
30°	2975.4	2990.1	2950.5	2900.6	2808.2	2711.4	2660.1	2649.8	2629.3	2611.7
32.5°	3240.8	3218.8	3195.4	3163.1	3083.9	2956.3	2906.5	2868.3	2806.8	2724.6
35°	3368.4	3431.5	3413.9	3327.3	3267.2	3218.8	3204.2	3145.5	3094.2	2965.1
37.5°	3581.0	3607.4	3582.5	3554.6	3526.8	3475.4	3457.9	3474.0	3372.8	3160.2
40°	3718.9	3774.6	3825.9	3748.2	3742.3	3752.6	3644.1	3625.0	3416.8	3305.3
42.5°	4000.4	4023.9	4034.2	4031.2	4065.0	4065.0	3858.2	3817.1	3669.0	3578.1
45°	4372.9	4392.0	4428.6	4455.0	4416.9	4436.0	4141.2	4125.1	3993.1	3975.5
47.5°	4695.5	4741.0	4823.1	4900.8	4950.7	4886.2	4563.5	4449.2	4415.4	4521.0
50°	4977.1	4922.8	5114.9	5194.1	5412.6	5519.7	5029.9	4984.4	4930.2	5132.5
52.5°	5004.9	5078.3	5349.6	5507.9	5958.1	6156.1	5601.8	5582.7	5516.7	5749.9
55°	5204.4	5195.6	5468.3	5811.5	6346.7	6679.6	6346.7	6335.0	6191.3	6412.7
57.5°	5170.6	5260.1	5475.7	5955.2	6697.2	7241.3	7210.5	7129.8	6928.9	7109.3
60°	5056.3	5079.7	5342.2	5950.8	6901.0	7817.6	8143.1	8159.2	7748.6	7892.4
62.5°	4408.1	4462.4	4795.2	5483.0	6755.9	8215.0	9053.8	8996.6	8668.1	8503.9
65°	3506.2	3452.0	3798.1	4541.5	5852.5	7933.4	9452.6	9665.3	9149.1	8848.5
67.5°	2149.8	2136.6	2469.5	3125.0	4378.8	6751.5	9134.4	9300.1	9015.6	8775.1
70°	1107.2	1073.4	1281.7	1743.6	2752.5	4953.6	7949.5	8112.3	8383.6	7870.4
72.5°	516.2	508.9	620.3	857.9	1401.9	2912.3	6156.1	6273.4	6845.3	6635.6
75°	303.6	308.0	371.0	448.7	683.4	1372.6	4085.5	4312.8	4933.1	4782.0
77.5°	227.3	227.3	264.0	312.4	398.9	530.8	2016.3	2317.0	2884.5	2594.1
80°	167.2	170.1	202.4	234.6	277.2	274.2	800.7	938.5	1322.7	1130.6
82.5°	130.5	134.9	156.9	174.5	195.0	165.7	328.5	353.4	544.0	432.6
85°	90.9	93.9	123.2	118.8	118.8	92.4	136.4	143.7	215.6	205.3
87.5°	22.0	24.9	60.1	66.0	49.9	27.9	42.5	48.4	77.7	89.5
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°
1682.0	0°	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0	1682.0
1711.3	2.5°	1689.3	1695.2	1720.1	1706.9	1714.3	1683.5	1708.4	1687.9	1705.5	1696.7
1724.5	5°	1736.3	1723.1	1737.7	1727.5	1727.5	1739.2	1756.8	1743.6	1770.0	1758.3
1734.8	7.5°	1755.3	1756.8	1765.6	1767.1	1759.7	1796.4	1797.8	1793.4	1818.4	1812.5
1805.2	10°	1802.2	1803.7	1819.8	1828.6	1821.3	1834.5	1819.8	1808.1	1806.6	1800.8
1860.9	12.5°	1877.0	1891.7	1888.8	1896.1	1897.6	1841.8	1808.1	1750.9	1743.6	1750.9
1943.0	15°	1946.0	1940.1	1943.0	1957.7	1896.1	1806.6	1746.5	1698.1	1701.1	1702.5
2050.1	17.5°	2028.1	2032.5	2036.9	1969.4	1856.5	1750.9	1698.1	1698.1	1683.5	1689.3
2124.9	20°	2121.9	2104.3	2066.2	1970.9	1787.6	1686.4	1670.3	1670.3	1652.7	1640.9
2205.5	22.5°	2195.3	2160.1	2102.9	1925.4	1726.0	1661.5	1621.9	1594.0	1573.5	1550.0
2295.0	25°	2242.2	2223.1	2111.7	1878.5	1680.5	1595.5	1536.8	1494.3	1467.9	1437.1
2365.4	27.5°	2314.0	2277.4	2136.6	1824.2	1630.7	1529.5	1438.6	1372.6	1322.7	1290.5
2472.4	30°	2410.8	2358.0	2119.0	1746.5	1554.4	1415.1	1308.1	1223.0	1165.8	1139.4
2573.6	32.5°	2490.0	2421.1	2104.3	1676.1	1469.4	1299.3	1157.0	1070.5	1038.2	1004.5
2743.7	35°	2641.0	2504.7	2094.1	1636.5	1393.1	1183.4	1033.8	959.0	918.0	868.1
2844.9	37.5°	2756.9	2649.8	2069.1	1554.4	1294.9	1070.5	940.0	872.5	810.9	758.1
3079.5	40°	2938.7	2852.2	2070.6	1438.6	1179.0	973.7	866.7	796.3	718.6	673.1
3427.1	42.5°	3280.4	3051.7	2079.4	1346.2	1048.5	894.5	800.7	717.1	639.4	601.2
3823.0	45°	3699.8	3325.9	2025.1	1262.6	915.1	819.7	721.5	637.9	588.0	560.2
4361.2	47.5°	4182.3	3594.2	1951.8	1105.7	803.6	740.5	648.2	599.8	563.1	547.0
5054.8	50°	4721.9	3978.4	1931.3	962.0	717.1	673.1	613.0	576.3	551.4	532.3
5836.4	52.5°	5417.0	4425.7	1890.2	813.9	642.3	618.8	599.8	574.8	552.8	536.7
6565.2	55°	6081.3	4921.4	1846.2	692.2	589.5	592.4	602.7	580.7	561.6	536.7
7382.0	57.5°	6829.2	5427.3	1683.5	602.7	549.9	579.2	599.8	574.8	555.8	536.7
8217.9	60°	7291.1	5711.8	1365.3	525.0	514.7	554.3	582.2	555.8	535.2	542.6
8602.1	62.5°	7478.8	5562.2	1029.4	476.6	489.8	520.6	554.3	544.0	529.4	557.2
8597.7	65°	7159.1	5217.6	736.2	435.5	456.1	486.9	529.4	541.1	545.5	599.8
7896.8	67.5°	6370.2	4543.0	541.1	401.8	420.9	466.3	547.0	566.0	563.1	630.6
6626.8	70°	5097.3	3553.2	422.3	373.9	407.7	482.5	571.9	571.9	551.4	630.6
5054.8	72.5°	3708.6	2504.7	363.7	341.7	373.9	442.9	569.0	567.5	541.1	576.3
3218.8	75°	2245.1	1457.6	321.1	309.4	321.1	379.8	544.0	535.2	498.6	495.7
1548.6	77.5°	1118.9	733.2	262.5	274.2	280.1	318.2	478.1	491.3	441.4	429.7
611.5	80°	472.2	319.7	218.5	236.1	236.1	268.4	397.4	406.2	366.6	344.6
242.0	82.5°	215.6	183.3	186.2	205.3	192.1	208.2	315.3	325.5	297.7	261.0
102.7	85°	90.9	104.1	142.2	161.3	142.2	134.9	217.0	228.8	193.6	161.3
44.0	87.5°	41.1	57.2	89.5	117.3	71.9	63.1	115.8	120.2	96.8	71.9
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>
1682.0
1680.5
1742.1
1803.7
1800.8
1753.9
1723.1
1690.8
1623.3
1536.8
1443.0
1305.1
1154.1
1003.0
863.7
759.6
677.5
604.2
566.0
544.0
535.2
535.2
535.2
535.2
536.7
549.9
599.8
635.0
617.4
555.8
489.8
422.3
337.3
255.2
162.8
67.5
0.0

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