

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: P477240

Luminaire Tested: **IFLD-M-SA4A-722-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477240
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

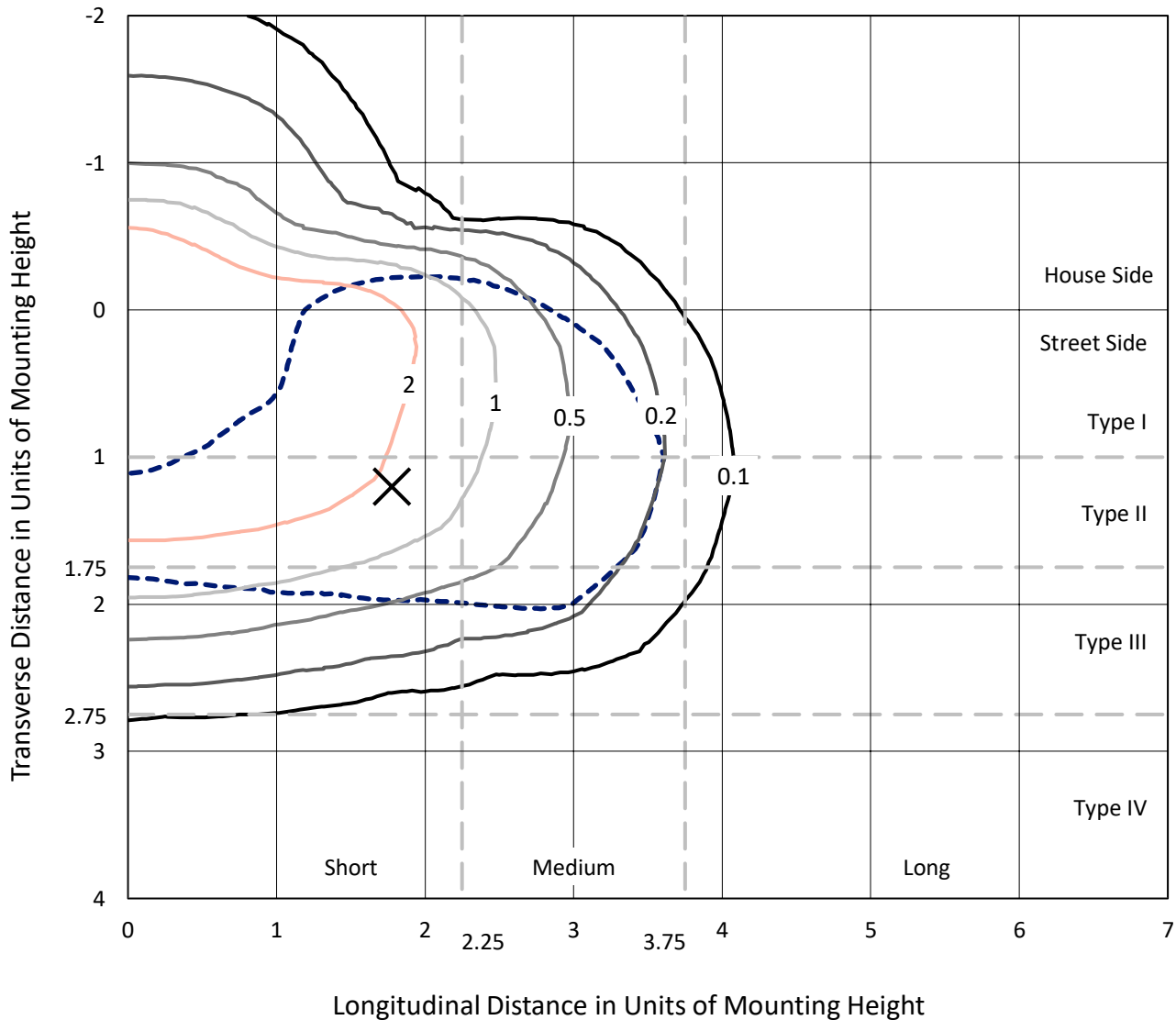
Lumens per Lamp: N/A
Luminaire Lumens: 13855 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6
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

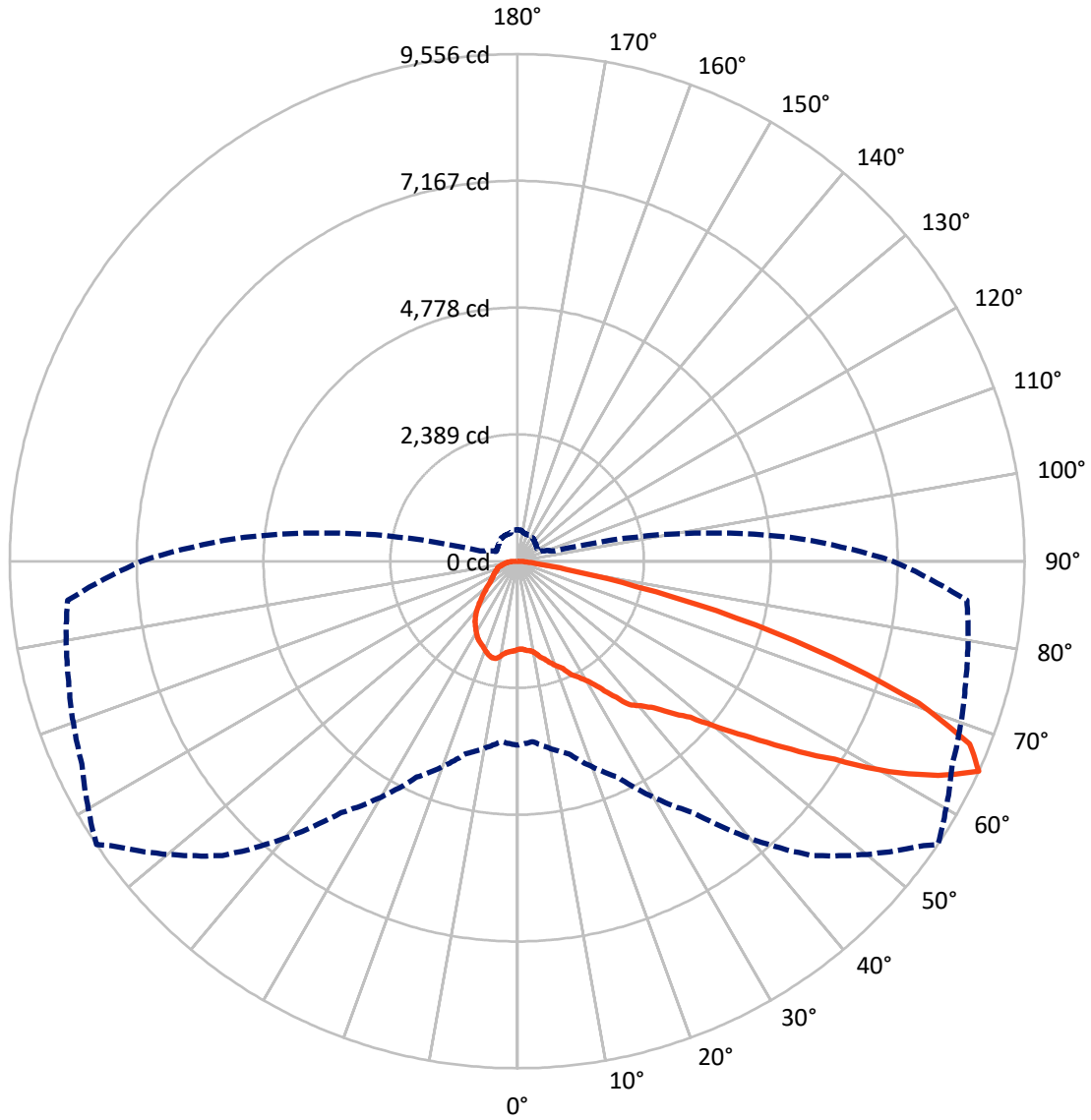
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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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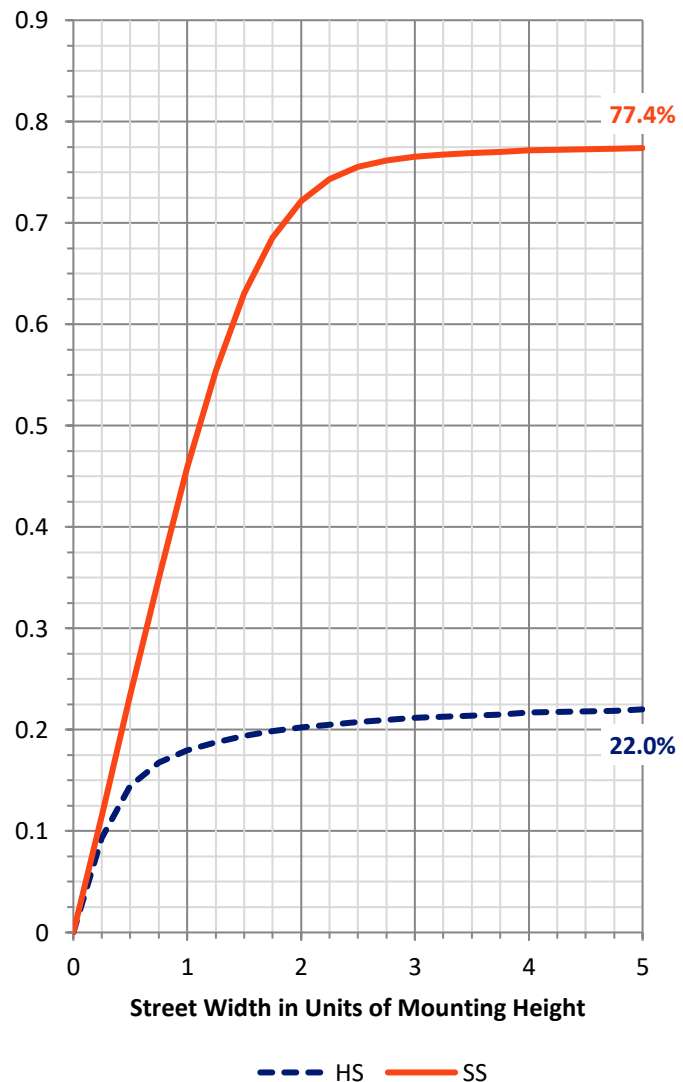
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3107.2	0.0	3107.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	10747.8	0.0	10747.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	13855.0	0.0	13855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	1.2
10°-20°	535.1	3.9
20°-30°	952.8	6.9
30°-40°	1426.8	10.3
40°-50°	2114.0	15.3
50°-60°	3257.4	23.5
60°-70°	3687.7	26.6
70°-80°	1530.4	11.0
80°-90°	185.9	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°	13855.0	100.0
0°-180°	13855.0	100.0

Coefficient of Utilization

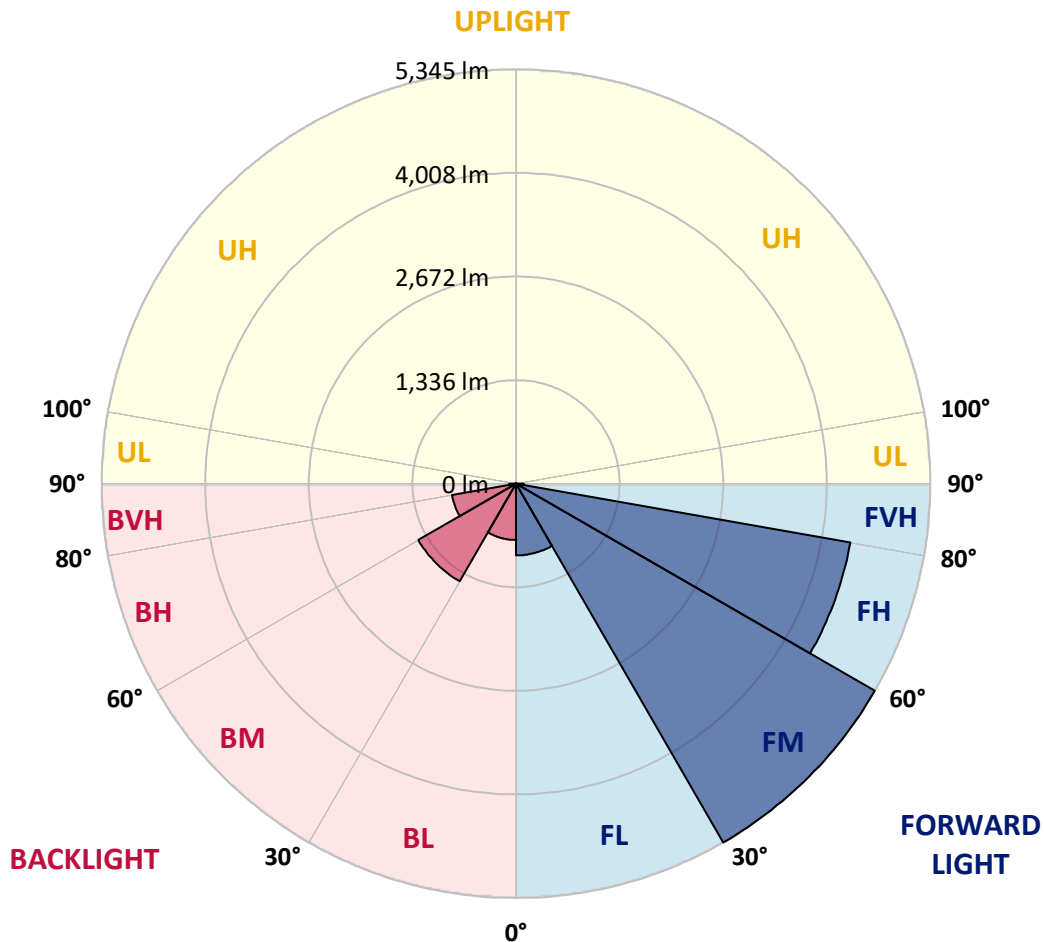


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.9	6.7			
FM (30°-60°)	5344.6	38.6			
FH (60°-80°)	4379.1	31.6			G2/5000
FVH (80°-90°)	98.1	0.7			G1/100
BL (0°-30°)	726.8	5.2	B2/1000		
BM (30°-60°)	1453.5	10.5	B2/2500		
BH (60°-80°)	839.1	6.1	B2/1000		G2/1000
BVH (80°-90°)	87.9	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°	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0
2.5°	1619.5	1628.2	1622.4	1639.8	1654.3	1654.3	1665.9	1657.2	1668.8	1684.7
5°	1673.1	1638.3	1657.2	1665.9	1661.5	1668.8	1657.2	1686.2	1667.3	1697.8
7.5°	1686.2	1699.2	1715.2	1700.7	1713.7	1706.5	1707.9	1703.6	1693.4	1718.1
10°	1781.9	1763.0	1799.3	1777.5	1774.6	1771.7	1765.9	1744.2	1768.8	1770.3
12.5°	1892.1	1874.7	1873.2	1855.8	1879.0	1837.0	1845.7	1834.1	1838.4	1844.2
15°	1971.8	1964.6	1997.9	1977.6	1947.2	1928.3	1948.6	1916.7	1932.7	1929.8
17.5°	2129.9	2128.4	2103.8	2070.4	2053.0	2025.5	2021.1	2008.1	2019.7	2013.9
20°	2240.0	2256.0	2260.3	2221.2	2154.5	2124.1	2116.8	2106.7	2119.7	2115.4
22.5°	2408.2	2383.6	2402.4	2334.3	2309.6	2237.1	2211.0	2196.5	2258.9	2242.9
25°	2515.5	2541.6	2522.8	2499.6	2444.5	2354.6	2335.7	2367.6	2392.3	2374.9
27.5°	2757.6	2731.5	2714.1	2644.6	2608.3	2514.1	2492.3	2480.7	2486.5	2496.7
30°	2941.8	2956.3	2917.1	2867.8	2776.5	2680.8	2630.1	2619.9	2599.6	2582.2
32.5°	3204.2	3182.5	3159.3	3127.4	3049.1	2922.9	2873.6	2835.9	2775.0	2693.8
35°	3330.3	3392.7	3375.3	3289.7	3230.3	3182.5	3168.0	3110.0	3059.2	2931.6
37.5°	3540.6	3566.7	3542.0	3514.5	3486.9	3436.2	3418.8	3434.7	3334.7	3124.5
40°	3676.9	3732.0	3782.7	3705.9	3700.1	3710.2	3602.9	3584.1	3378.2	3268.0
42.5°	3955.2	3978.4	3988.6	3985.7	4019.0	4019.0	3814.6	3774.0	3627.6	3537.7
45°	4323.5	4342.3	4378.6	4404.7	4367.0	4385.8	4094.4	4078.5	3948.0	3930.6
47.5°	4642.5	4687.4	4768.6	4845.4	4894.7	4830.9	4512.0	4398.9	4365.5	4469.9
50°	4920.8	4867.2	5057.1	5135.4	5351.5	5457.3	4973.0	4928.1	4874.4	5074.5
52.5°	4948.4	5020.9	5289.1	5445.7	5890.8	6086.5	5538.5	5519.6	5454.4	5684.9
55°	5145.6	5136.9	5406.5	5745.8	6275.0	6604.1	6275.0	6263.4	6121.3	6340.3
57.5°	5112.2	5200.7	5413.8	5887.9	6621.5	7159.4	7129.0	7049.2	6850.6	7028.9
60°	4999.1	5022.3	5281.9	5883.6	6823.1	7729.2	8051.1	8067.0	7661.1	7803.2
62.5°	4358.3	4411.9	4741.1	5421.0	6679.5	8122.1	8951.5	8894.9	8570.2	8407.8
65°	3466.6	3413.0	3755.1	4490.2	5786.4	7843.8	9345.8	9556.1	9045.7	8748.5
67.5°	2125.5	2112.5	2441.6	3089.7	4329.3	6675.2	9031.2	9195.0	8913.8	8676.0
70°	1094.6	1061.3	1267.2	1723.9	2721.4	4897.6	7859.7	8020.7	8288.9	7781.4
72.5°	510.4	503.1	613.3	848.2	1386.1	2879.4	6086.5	6202.5	6768.0	6560.6
75°	300.1	304.5	366.8	443.7	675.6	1357.1	4039.3	4264.1	4877.3	4728.0
77.5°	224.7	224.7	261.0	308.8	394.4	524.9	1993.6	2290.8	2851.9	2564.8
80°	165.3	168.2	200.1	232.0	274.0	271.1	791.6	927.9	1307.8	1117.8
82.5°	129.0	133.4	155.1	172.5	192.8	163.8	324.8	349.4	537.9	427.7
85°	89.9	92.8	121.8	117.4	117.4	91.3	134.8	142.1	213.1	203.0
87.5°	21.7	24.6	59.4	65.2	49.3	27.5	42.0	47.8	76.8	88.4
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°
1663.0	0°	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0	1663.0
1692.0	2.5°	1670.2	1676.0	1700.7	1687.6	1694.9	1664.4	1689.1	1668.8	1686.2	1677.5
1705.0	5°	1716.6	1703.6	1718.1	1707.9	1707.9	1719.5	1736.9	1723.9	1750.0	1738.4
1715.2	7.5°	1735.5	1736.9	1745.6	1747.1	1739.8	1776.1	1777.5	1773.2	1797.8	1792.0
1784.8	10°	1781.9	1783.3	1799.3	1808.0	1800.7	1813.8	1799.3	1787.7	1786.2	1780.4
1839.9	12.5°	1855.8	1870.3	1867.4	1874.7	1876.1	1821.0	1787.7	1731.1	1723.9	1731.1
1921.1	15°	1924.0	1918.2	1921.1	1935.6	1874.7	1786.2	1726.8	1678.9	1681.8	1683.3
2026.9	17.5°	2005.2	2009.5	2013.9	1947.2	1835.5	1731.1	1678.9	1678.9	1664.4	1670.2
2100.9	20°	2098.0	2080.6	2042.9	1948.6	1767.4	1667.3	1651.4	1651.4	1634.0	1622.4
2180.6	22.5°	2170.4	2135.7	2079.1	1903.7	1706.5	1642.7	1603.6	1576.0	1555.7	1532.5
2269.0	25°	2216.8	2198.0	2087.8	1857.3	1661.5	1577.5	1519.5	1477.4	1451.3	1420.9
2338.6	27.5°	2287.9	2251.6	2112.5	1803.6	1612.2	1512.2	1422.3	1357.1	1307.8	1275.9
2444.5	30°	2383.6	2331.4	2095.1	1726.8	1536.9	1399.1	1293.3	1209.2	1152.6	1126.5
2544.5	32.5°	2461.9	2393.7	2080.6	1657.2	1452.8	1284.6	1143.9	1058.4	1026.5	993.2
2712.7	35°	2611.2	2476.4	2070.4	1618.0	1377.4	1170.0	1022.2	948.2	907.6	858.3
2812.7	37.5°	2725.7	2619.9	2045.8	1536.9	1280.2	1058.4	929.4	862.7	801.8	749.6
3044.7	40°	2905.5	2820.0	2047.2	1422.3	1165.7	962.7	856.9	787.3	710.4	665.5
3388.3	42.5°	3243.3	3017.2	2055.9	1331.0	1036.7	884.4	791.6	709.0	632.1	594.4
3779.8	45°	3658.0	3288.3	2002.3	1248.3	904.7	810.5	713.3	630.7	581.4	553.8
4311.9	47.5°	4135.0	3553.6	1929.8	1093.2	794.5	732.2	640.8	593.0	556.7	540.8
4997.7	50°	4668.6	3933.5	1909.5	951.1	709.0	665.5	606.0	569.8	545.1	526.3
5770.5	52.5°	5355.8	4375.7	1868.9	804.7	635.0	611.8	593.0	568.3	546.6	530.7
6491.0	55°	6012.6	4865.7	1825.4	684.3	582.8	585.7	595.9	574.1	555.3	530.7
7298.6	57.5°	6752.0	5365.9	1664.4	595.9	543.7	572.7	593.0	568.3	549.5	530.7
8125.0	60°	7208.7	5647.2	1349.8	519.1	508.9	548.0	575.6	549.5	529.2	536.4
8504.9	62.5°	7394.3	5499.3	1017.8	471.2	484.3	514.7	548.0	537.9	523.4	550.9
8500.6	65°	7078.2	5158.6	727.8	430.6	450.9	481.4	523.4	535.0	539.3	593.0
7807.5	67.5°	6298.2	4491.7	535.0	397.3	416.1	461.1	540.8	559.6	556.7	623.4
6551.9	70°	5039.7	3513.0	417.6	369.7	403.1	477.0	565.4	565.4	545.1	623.4
4997.7	72.5°	3666.7	2476.4	359.6	337.8	369.7	437.9	562.5	561.1	535.0	569.8
3182.5	75°	2219.7	1441.2	317.5	305.9	317.5	375.5	537.9	529.2	493.0	490.1
1531.1	77.5°	1106.2	724.9	259.5	271.1	276.9	314.6	472.7	485.7	436.4	424.8
604.6	80°	466.9	316.1	216.0	233.4	233.4	265.3	392.9	401.6	362.5	340.7
239.2	82.5°	213.1	181.2	184.1	203.0	189.9	205.9	311.7	321.9	294.3	258.1
101.5	85°	89.9	102.9	140.6	159.5	140.6	133.4	214.6	226.2	191.4	159.5
43.5	87.5°	40.6	56.5	88.4	116.0	71.0	62.3	114.5	118.9	95.7	71.0
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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180°
1663.0
1661.5
1722.4
1783.3
1780.4
1734.0
1703.6
1671.7
1605.0
1519.5
1426.7
1290.4
1141.0
991.7
854.0
751.0
669.8
597.3
559.6
537.9
529.2
529.2
529.2
529.2
530.7
543.7
593.0
627.8
610.4
549.5
484.3
417.6
333.5
252.3
160.9
66.7
0.0

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