

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: P477337

Luminaire Tested: **IFLD-S-SA3A-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477337
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

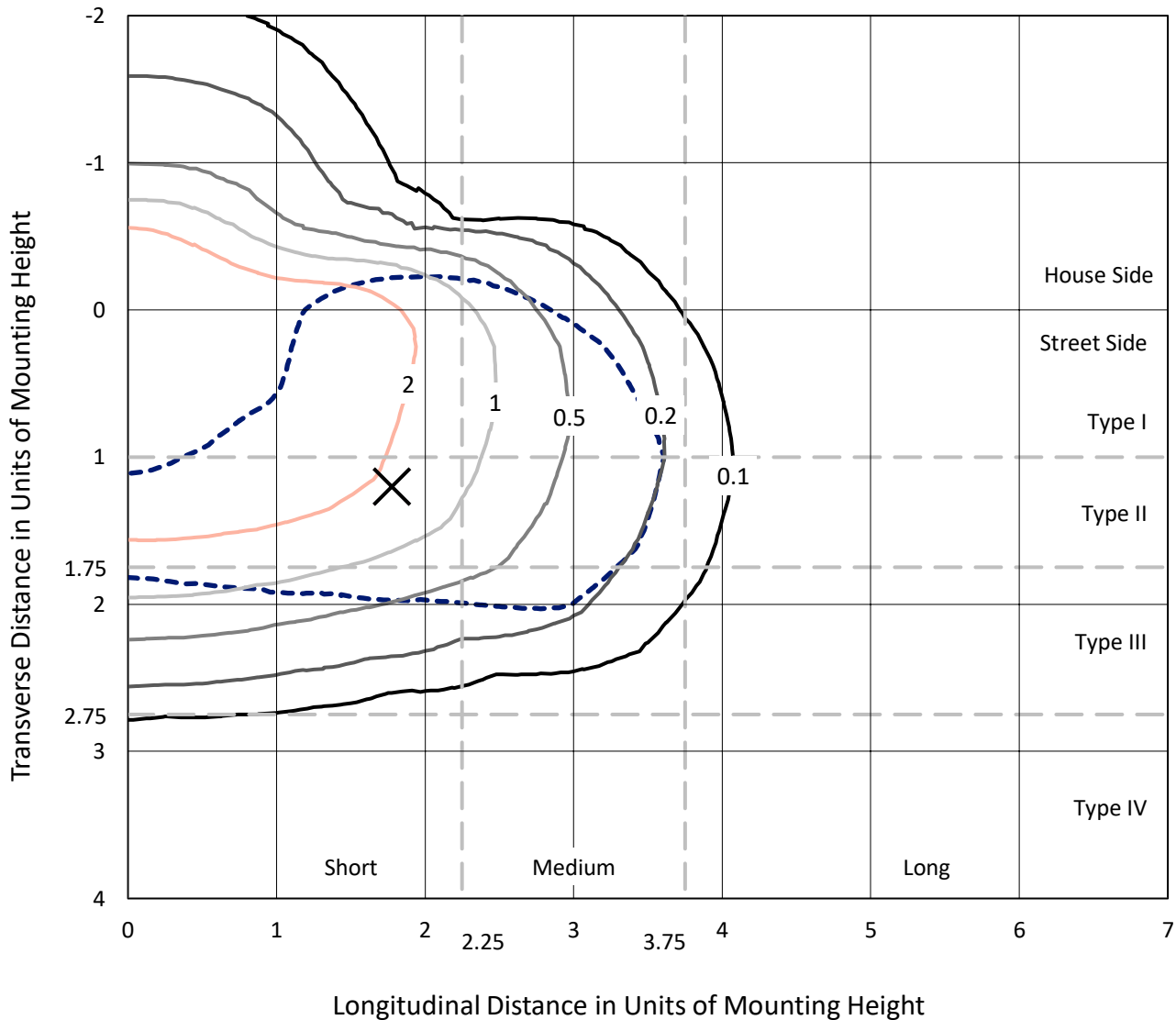
Lumens per Lamp: N/A
Luminaire Lumens: 13821.4 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (A_{in}): 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

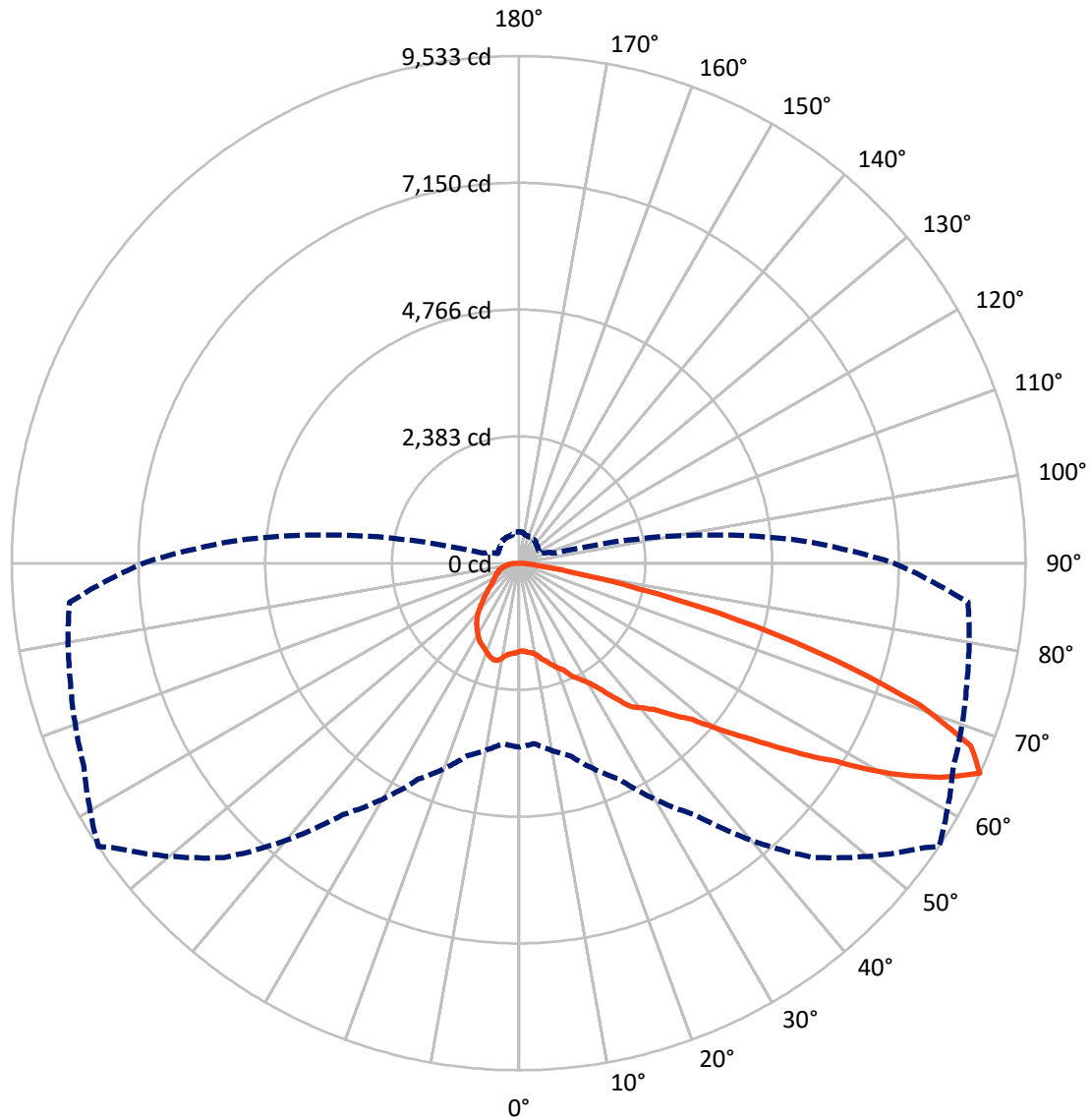
✕ Max cd
 - - - 1/2 Max cd



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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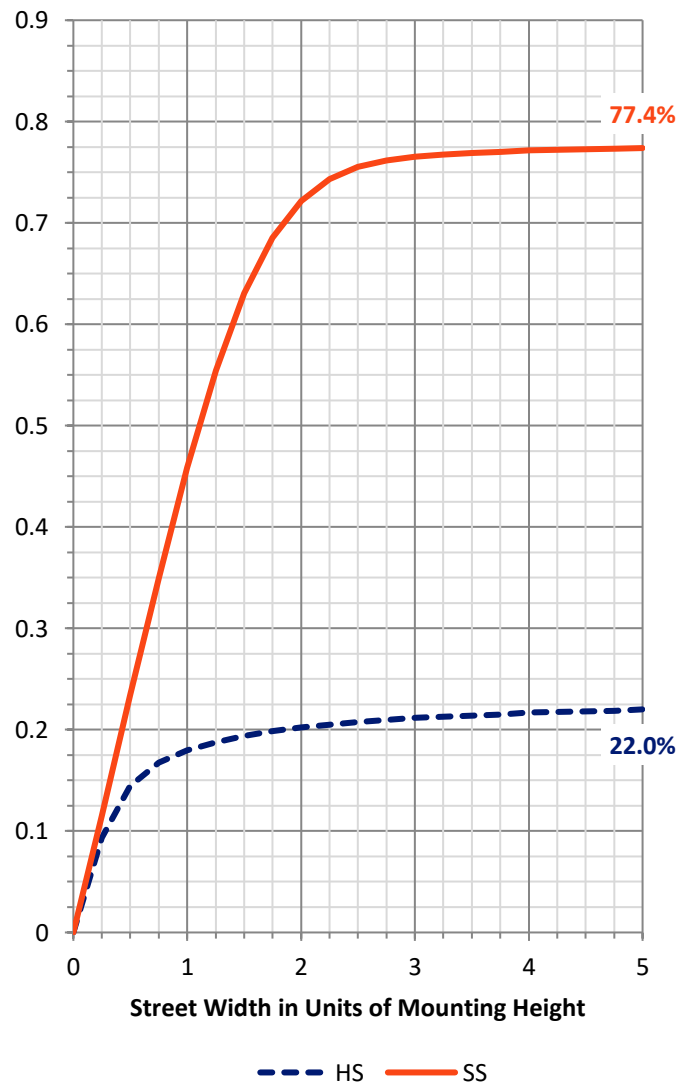
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3099.7	0.0	3099.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	10721.7	0.0	10721.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	13821.4	0.0	13821.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	1.2
10°-20°	533.8	3.9
20°-30°	950.5	6.9
30°-40°	1423.3	10.3
40°-50°	2108.9	15.3
50°-60°	3249.5	23.5
60°-70°	3678.8	26.6
70°-80°	1526.7	11.0
80°-90°	185.5	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°	13821.4	100.0
0°-180°	13821.4	100.0

Coefficient of Utilization

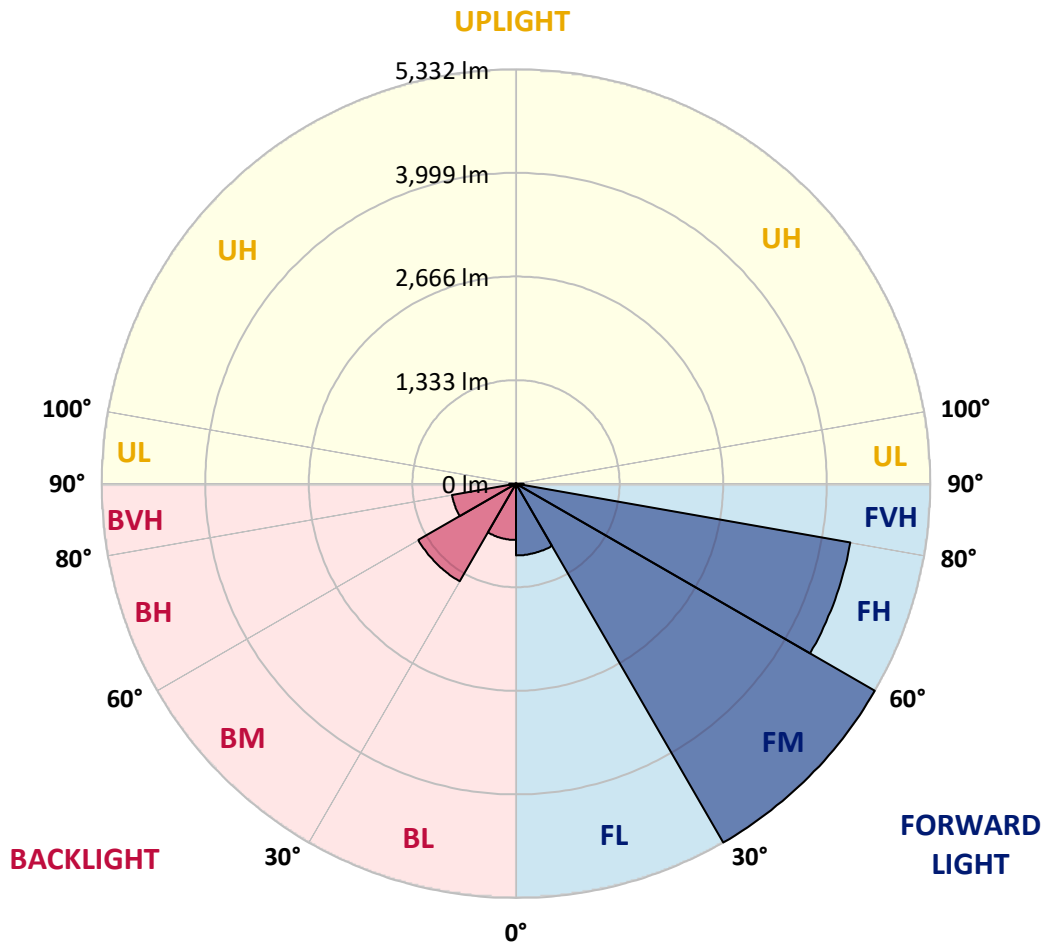


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.7	6.7			
FM (30°-60°)	5331.7	38.6			
FH (60°-80°)	4368.5	31.6			G2/5000
FVH (80°-90°)	97.8	0.7			G1/100
BL (0°-30°)	725.0	5.2	B2/1000		
BM (30°-60°)	1450.0	10.5	B2/2500		
BH (60°-80°)	837.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	87.6	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°	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0
2.5°	1615.6	1624.2	1618.5	1635.8	1650.3	1650.3	1661.8	1653.2	1664.7	1680.7
5°	1669.1	1634.4	1653.2	1661.8	1657.5	1664.7	1653.2	1682.1	1663.3	1693.7
7.5°	1682.1	1695.1	1711.0	1696.6	1709.6	1702.3	1703.8	1699.5	1689.3	1713.9
10°	1777.6	1758.8	1794.9	1773.2	1770.3	1767.4	1761.6	1740.0	1764.5	1766.0
12.5°	1887.5	1870.1	1868.7	1851.3	1874.5	1832.5	1841.2	1829.6	1834.0	1839.8
15°	1967.0	1959.8	1993.1	1972.8	1942.4	1923.6	1943.9	1912.1	1928.0	1925.1
17.5°	2124.7	2123.2	2098.6	2065.4	2048.0	2020.5	2016.2	2003.2	2014.8	2009.0
20°	2234.6	2250.5	2254.9	2215.8	2149.3	2118.9	2111.7	2101.5	2114.6	2110.2
22.5°	2402.4	2377.8	2396.6	2328.6	2304.0	2231.7	2205.7	2191.2	2253.4	2237.5
25°	2509.4	2535.4	2516.6	2493.5	2438.5	2348.9	2330.1	2361.9	2386.5	2369.1
27.5°	2750.9	2724.9	2707.6	2638.1	2602.0	2508.0	2486.3	2474.7	2480.5	2490.6
30°	2934.6	2949.1	2910.0	2860.9	2769.7	2674.3	2623.7	2613.5	2593.3	2575.9
32.5°	3196.4	3174.7	3151.6	3119.8	3041.7	2915.8	2866.7	2829.0	2768.3	2687.3
35°	3322.3	3384.4	3367.1	3281.8	3222.5	3174.7	3160.3	3102.4	3051.8	2924.5
37.5°	3532.0	3558.0	3533.4	3505.9	3478.5	3427.8	3410.5	3426.4	3326.6	3116.9
40°	3667.9	3722.9	3773.5	3696.9	3691.1	3701.2	3594.2	3575.4	3370.0	3260.1
42.5°	3945.6	3968.8	3978.9	3976.0	4009.3	4009.3	3805.3	3764.8	3618.8	3529.1
45°	4313.0	4331.8	4368.0	4394.0	4356.4	4375.2	4084.5	4068.6	3938.4	3921.0
47.5°	4631.2	4676.0	4757.0	4833.7	4882.9	4819.2	4501.0	4388.2	4354.9	4459.1
50°	4908.9	4855.4	5044.8	5123.0	5338.5	5444.0	4961.0	4916.1	4862.6	5062.2
52.5°	4936.4	5008.7	5276.3	5432.5	5876.5	6071.8	5525.0	5506.2	5441.1	5671.1
55°	5133.1	5124.4	5393.4	5731.9	6259.8	6588.1	6259.8	6248.2	6106.5	6324.9
57.5°	5099.8	5188.0	5400.7	5873.6	6605.5	7142.0	7111.7	7032.1	6834.0	7011.9
60°	4987.0	5010.1	5269.0	5869.3	6806.5	7710.5	8031.6	8047.5	7642.5	7784.2
62.5°	4347.7	4401.2	4729.5	5407.9	6663.3	8102.4	8929.7	8873.3	8549.3	8387.4
65°	3458.2	3404.7	3746.0	4479.3	5772.4	7824.7	9323.1	9532.9	9023.7	8727.2
67.5°	2120.3	2107.3	2435.6	3082.2	4318.8	6659.0	9009.3	9172.7	8892.1	8654.9
70°	1092.0	1058.7	1264.1	1719.7	2714.8	4885.8	7840.6	8001.2	8268.8	7762.5
72.5°	509.1	501.9	611.8	846.1	1382.7	2872.4	6071.8	6187.5	6751.5	6544.7
75°	299.4	303.7	365.9	442.6	674.0	1353.8	4029.5	4253.7	4865.5	4716.5
77.5°	224.2	224.2	260.3	308.1	393.4	523.6	1988.7	2285.2	2845.0	2558.6
80°	164.9	167.8	199.6	231.4	273.4	270.5	789.7	925.7	1304.6	1115.1
82.5°	128.7	133.1	154.8	172.1	192.4	163.4	324.0	348.6	536.6	426.7
85°	89.7	92.6	121.5	117.2	117.2	91.1	134.5	141.7	212.6	202.5
87.5°	21.7	24.6	59.3	65.1	49.2	27.5	41.9	47.7	76.7	88.2
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°
1659.0	0°	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0
1687.9	2.5°	1666.2	1672.0	1696.6	1683.5	1690.8	1660.4	1685.0	1664.7	1682.1	1673.4
1700.9	5°	1712.5	1699.5	1713.9	1703.8	1703.8	1715.4	1732.7	1719.7	1745.7	1734.2
1711.0	7.5°	1731.3	1732.7	1741.4	1742.8	1735.6	1771.8	1773.2	1768.9	1793.5	1787.7
1780.5	10°	1777.6	1779.0	1794.9	1803.6	1796.4	1809.4	1794.9	1783.3	1781.9	1776.1
1835.4	12.5°	1851.3	1865.8	1862.9	1870.1	1871.6	1816.6	1783.3	1726.9	1719.7	1726.9
1916.4	15°	1919.3	1913.5	1916.4	1930.9	1870.1	1781.9	1722.6	1674.9	1677.8	1679.2
2022.0	17.5°	2000.3	2004.6	2009.0	1942.4	1831.1	1726.9	1674.9	1674.9	1660.4	1666.2
2095.8	20°	2092.9	2075.5	2037.9	1943.9	1763.1	1663.3	1647.4	1647.4	1630.0	1618.5
2175.3	22.5°	2165.2	2130.5	2074.1	1899.1	1702.3	1638.7	1599.7	1572.2	1551.9	1528.8
2263.5	25°	2211.5	2192.7	2082.7	1852.8	1657.5	1573.6	1515.8	1473.8	1447.8	1417.4
2333.0	27.5°	2282.3	2246.2	2107.3	1799.3	1608.3	1508.5	1418.9	1353.8	1304.6	1272.8
2438.5	30°	2377.8	2325.7	2090.0	1722.6	1533.1	1395.7	1290.1	1206.3	1149.8	1123.8
2538.3	32.5°	2455.9	2387.9	2075.5	1653.2	1449.2	1281.5	1141.2	1055.8	1024.0	990.7
2706.1	35°	2604.9	2470.4	2065.4	1614.1	1374.0	1167.2	1019.7	945.9	905.4	856.2
2805.9	37.5°	2719.1	2613.5	2040.8	1533.1	1277.1	1055.8	927.1	860.6	799.8	747.8
3037.3	40°	2898.5	2813.1	2042.2	1418.9	1162.9	960.4	854.8	785.4	708.7	663.9
3380.1	42.5°	3235.5	3009.8	2050.9	1327.7	1034.1	882.3	789.7	707.3	630.6	593.0
3770.6	45°	3649.1	3280.3	1997.4	1245.3	902.5	808.5	711.6	629.2	580.0	552.5
4301.4	47.5°	4125.0	3545.0	1925.1	1090.5	792.6	730.4	639.3	591.6	555.4	539.5
4985.5	50°	4657.2	3923.9	1904.8	948.8	707.3	663.9	604.6	568.4	543.8	525.0
5756.5	52.5°	5342.8	4365.1	1864.3	802.7	633.5	610.4	591.6	567.0	545.3	529.4
6475.3	55°	5998.0	4853.9	1820.9	682.7	581.4	584.3	594.4	572.8	553.9	529.4
7280.9	57.5°	6735.6	5352.9	1660.4	594.4	542.4	571.3	591.6	567.0	548.2	529.4
8105.3	60°	7191.2	5633.5	1346.5	517.8	507.7	546.7	574.2	548.2	527.9	535.1
8484.3	62.5°	7376.4	5486.0	1015.3	470.1	483.1	513.5	546.7	536.6	522.1	549.6
8479.9	65°	7061.1	5146.1	726.1	429.6	449.8	480.2	522.1	533.7	538.0	591.6
7788.6	67.5°	6282.9	4480.8	533.7	396.3	415.1	459.9	539.5	558.3	555.4	621.9
6536.0	70°	5027.5	3504.5	416.5	368.8	402.1	475.8	564.1	564.1	543.8	621.9
4985.5	72.5°	3657.8	2470.4	358.7	337.0	368.8	436.8	561.2	559.7	533.7	568.4
3174.7	75°	2214.4	1437.7	316.7	305.2	316.7	374.6	536.6	527.9	491.8	488.9
1527.3	77.5°	1103.6	723.2	258.9	270.5	276.3	313.9	471.5	484.5	435.3	423.8
603.1	80°	465.7	315.3	215.5	232.9	232.9	264.7	392.0	400.6	361.6	339.9
238.6	82.5°	212.6	180.8	183.7	202.5	189.5	205.4	311.0	321.1	293.6	257.4
101.2	85°	89.7	102.7	140.3	159.1	140.3	133.1	214.1	225.6	190.9	159.1
43.4	87.5°	40.5	56.4	88.2	115.7	70.9	62.2	114.3	118.6	95.5	70.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O



<u>180°</u>
1659.0
1657.5
1718.3
1779.0
1776.1
1729.8
1699.5
1667.6
1601.1
1515.8
1423.2
1287.2
1138.3
989.3
851.9
749.2
668.2
595.9
558.3
536.6
527.9
527.9
527.9
527.9
529.4
542.4
591.6
626.3
608.9
548.2
483.1
416.5
332.7
251.7
160.5
66.5
0.0

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