

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: P477513

Luminaire Tested: **IFLD-M-SA4A-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477513
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

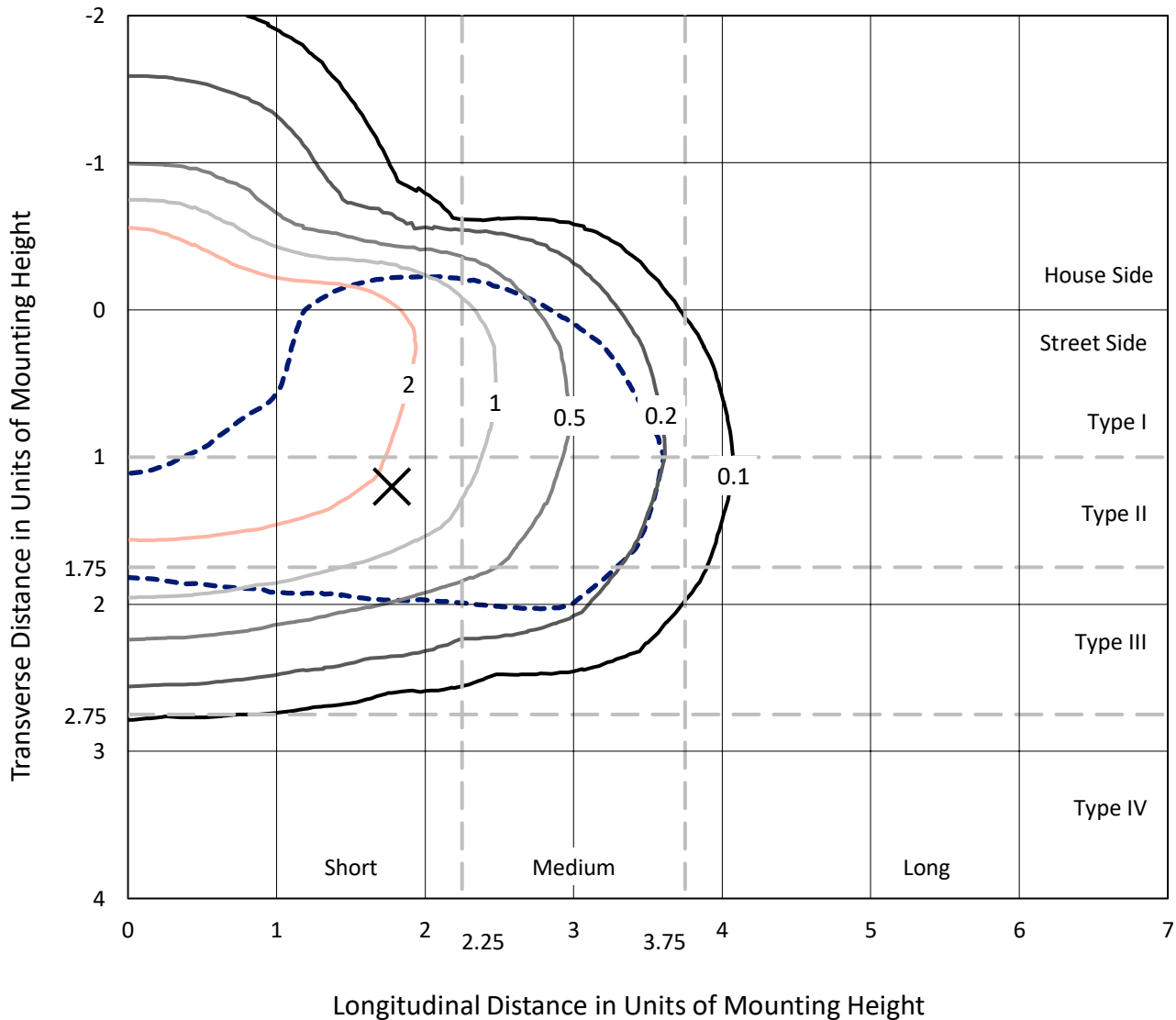
Lumens per Lamp: N/A
Luminaire Lumens: 13826.8 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

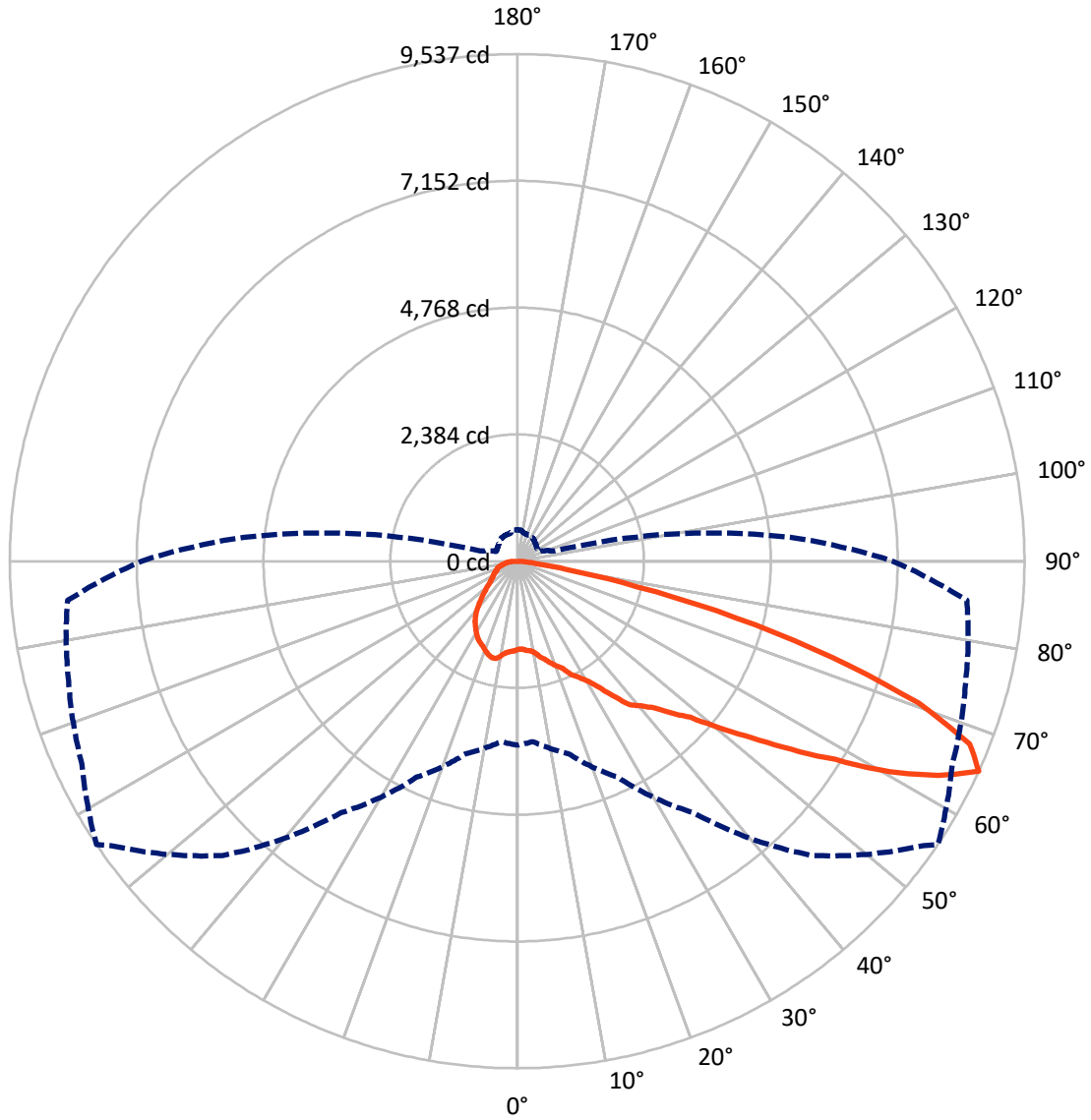
✕ Max cd
 - - - 1/2 Max cd



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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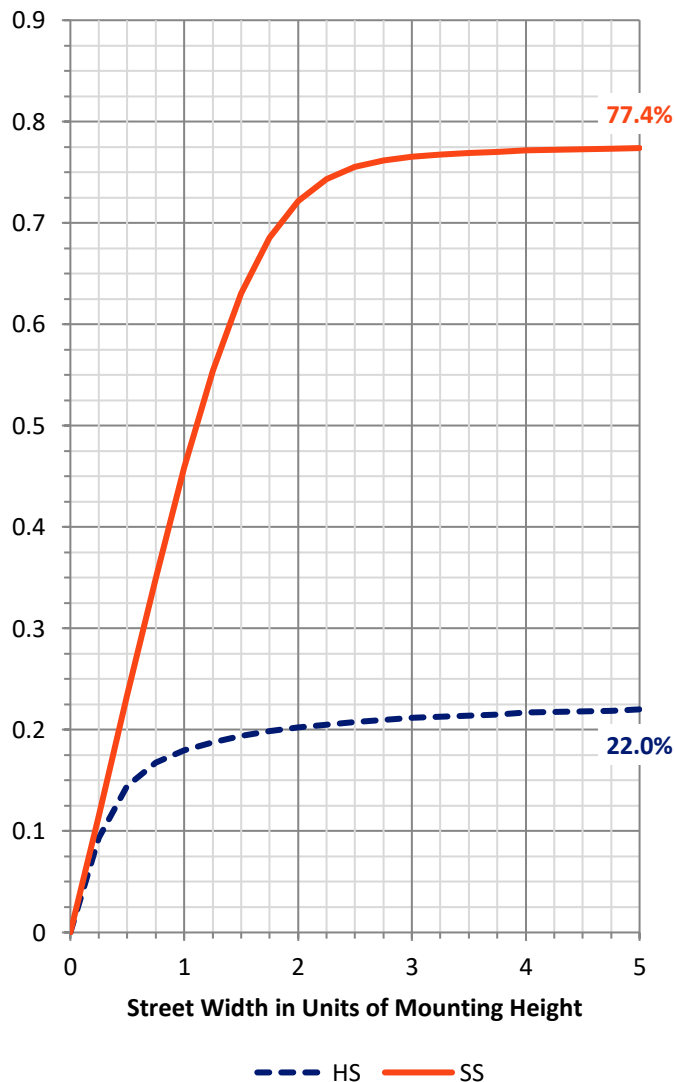
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3100.9	0.0	3100.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	10725.9	0.0	10725.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	13826.8	0.0	13826.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	1.2
10°-20°	534.0	3.9
20°-30°	950.9	6.9
30°-40°	1423.9	10.3
40°-50°	2109.7	15.3
50°-60°	3250.7	23.5
60°-70°	3680.2	26.6
70°-80°	1527.3	11.0
80°-90°	185.6	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°	13826.8	100.0
0°-180°	13826.8	100.0

Coefficient of Utilization

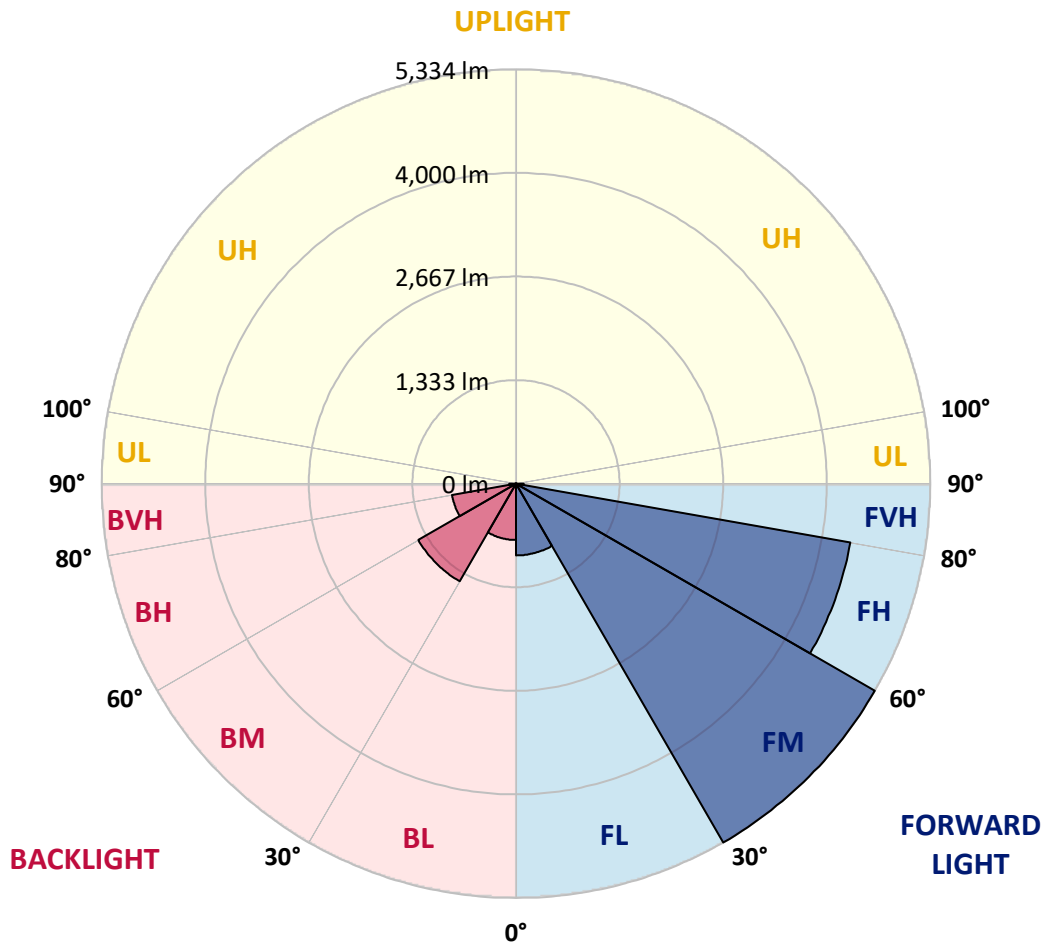


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.0	6.7			
FM (30°-60°)	5333.8	38.6			
FH (60°-80°)	4370.2	31.6			G2/5000
FVH (80°-90°)	97.9	0.7			G1/100
BL (0°-30°)	725.3	5.2	B2/1000		
BM (30°-60°)	1450.5	10.5	B2/2500		
BH (60°-80°)	837.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	87.7	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°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
2.5°	1616.2	1624.9	1619.1	1636.5	1650.9	1650.9	1662.5	1653.8	1665.4	1681.3
5°	1669.7	1635.0	1653.8	1662.5	1658.2	1665.4	1653.8	1682.8	1663.9	1694.3
7.5°	1682.8	1695.8	1711.7	1697.2	1710.3	1703.0	1704.5	1700.1	1690.0	1714.6
10°	1778.3	1759.4	1795.6	1773.9	1771.0	1768.1	1762.3	1740.6	1765.2	1766.7
12.5°	1888.2	1870.9	1869.4	1852.0	1875.2	1833.2	1841.9	1830.3	1834.7	1840.5
15°	1967.8	1960.6	1993.8	1973.6	1943.2	1924.4	1944.7	1912.8	1928.7	1925.8
17.5°	2125.5	2124.1	2099.5	2066.2	2048.8	2021.3	2017.0	2004.0	2015.5	2009.8
20°	2235.5	2251.4	2255.7	2216.7	2150.1	2119.7	2112.5	2102.4	2115.4	2111.0
22.5°	2403.3	2378.7	2397.5	2329.5	2304.9	2232.6	2206.5	2192.1	2254.3	2238.4
25°	2510.4	2536.4	2517.6	2494.5	2439.5	2349.8	2331.0	2362.8	2387.4	2370.0
27.5°	2752.0	2726.0	2708.6	2639.2	2603.0	2508.9	2487.2	2475.7	2481.5	2491.6
30°	2935.8	2950.3	2911.2	2862.0	2770.8	2675.3	2624.7	2614.6	2594.3	2577.0
32.5°	3197.7	3176.0	3152.8	3121.0	3042.9	2917.0	2867.8	2830.2	2769.4	2688.4
35°	3323.6	3385.8	3368.4	3283.0	3223.7	3176.0	3161.5	3103.6	3053.0	2925.7
37.5°	3533.4	3559.4	3534.8	3507.3	3479.8	3429.2	3411.8	3427.7	3327.9	3118.1
40°	3669.4	3724.4	3775.0	3698.3	3692.5	3702.6	3595.6	3576.8	3371.3	3261.3
42.5°	3947.2	3970.3	3980.5	3977.6	4010.8	4010.8	3806.8	3766.3	3620.2	3530.5
45°	4314.7	4333.5	4369.7	4395.7	4358.1	4376.9	4086.1	4070.2	3939.9	3922.6
47.5°	4633.0	4677.9	4758.9	4835.6	4884.8	4821.1	4502.8	4389.9	4356.7	4460.8
50°	4910.8	4857.3	5046.8	5125.0	5340.6	5446.2	4962.9	4918.1	4864.5	5064.2
52.5°	4938.3	5010.7	5278.3	5434.6	5878.8	6074.1	5527.2	5508.4	5443.3	5673.3
55°	5135.1	5126.4	5395.5	5734.1	6262.2	6590.7	6262.2	6250.7	6108.9	6327.3
57.5°	5101.8	5190.1	5402.8	5875.9	6608.0	7144.9	7114.5	7034.9	6836.7	7014.6
60°	4989.0	5012.1	5271.1	5871.6	6809.2	7713.5	8034.7	8050.6	7645.5	7787.3
62.5°	4349.4	4403.0	4731.4	5410.0	6665.9	8105.6	8933.2	8876.8	8552.7	8390.6
65°	3459.6	3406.0	3747.5	4481.1	5774.6	7827.8	9326.8	9536.6	9027.3	8730.7
67.5°	2121.2	2108.2	2436.6	3083.4	4320.5	6661.6	9012.8	9176.3	8895.6	8658.3
70°	1092.4	1059.1	1264.6	1720.4	2715.9	4887.7	7843.7	8004.3	8272.0	7765.6
72.5°	509.3	502.1	612.0	846.4	1383.2	2873.6	6074.1	6189.9	6754.2	6547.3
75°	299.5	303.9	366.1	442.8	674.3	1354.3	4031.1	4255.4	4867.4	4718.4
77.5°	224.3	224.3	260.4	308.2	393.6	523.8	1989.5	2286.1	2846.1	2559.6
80°	164.9	167.8	199.7	231.5	273.5	270.6	790.0	926.0	1305.1	1115.6
82.5°	128.8	133.1	154.8	172.2	192.4	163.5	324.1	348.7	536.8	426.8
85°	89.7	92.6	121.5	117.2	117.2	91.2	134.6	141.8	212.7	202.6
87.5°	21.7	24.6	59.3	65.1	49.2	27.5	42.0	47.7	76.7	88.3
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°
1659.6	0°	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6	1659.6
1688.5	2.5°	1666.8	1672.6	1697.2	1684.2	1691.4	1661.1	1685.7	1665.4	1682.8	1674.1
1701.6	5°	1713.1	1700.1	1714.6	1704.5	1704.5	1716.0	1733.4	1720.4	1746.4	1734.8
1711.7	7.5°	1732.0	1733.4	1742.1	1743.5	1736.3	1772.5	1773.9	1769.6	1794.2	1788.4
1781.1	10°	1778.3	1779.7	1795.6	1804.3	1797.1	1810.1	1795.6	1784.0	1782.6	1776.8
1836.1	12.5°	1852.0	1866.5	1863.6	1870.9	1872.3	1817.3	1784.0	1727.6	1720.4	1727.6
1917.2	15°	1920.1	1914.3	1917.2	1931.6	1870.9	1782.6	1723.3	1675.5	1678.4	1679.9
2022.8	17.5°	2001.1	2005.4	2009.8	1943.2	1831.8	1727.6	1675.5	1675.5	1661.1	1666.8
2096.6	20°	2093.7	2076.3	2038.7	1944.7	1763.8	1663.9	1648.0	1648.0	1630.7	1619.1
2176.2	22.5°	2166.0	2131.3	2074.9	1899.8	1703.0	1639.4	1600.3	1572.8	1552.5	1529.4
2264.4	25°	2212.3	2193.5	2083.6	1853.5	1658.2	1574.2	1516.4	1474.4	1448.4	1418.0
2333.9	27.5°	2283.2	2247.1	2108.2	1800.0	1609.0	1509.1	1419.4	1354.3	1305.1	1273.3
2439.5	30°	2378.7	2326.6	2090.8	1723.3	1533.7	1396.3	1290.6	1206.7	1150.3	1124.3
2539.3	32.5°	2456.9	2388.9	2076.3	1653.8	1449.8	1282.0	1141.6	1056.2	1024.4	991.1
2707.2	35°	2605.9	2471.3	2066.2	1614.8	1374.6	1167.7	1020.1	946.3	905.8	856.6
2807.0	37.5°	2720.2	2614.6	2041.6	1533.7	1277.6	1056.2	927.5	860.9	800.1	748.1
3038.5	40°	2899.6	2814.2	2043.0	1419.4	1163.3	960.7	855.1	785.7	709.0	664.1
3381.4	42.5°	3236.7	3011.0	2051.7	1328.3	1034.5	882.6	790.0	707.5	630.9	593.2
3772.1	45°	3650.6	3281.6	1998.2	1245.8	902.9	808.8	711.9	629.4	580.2	552.7
4303.1	47.5°	4126.6	3546.4	1925.8	1091.0	792.9	730.7	639.5	591.8	555.6	539.7
4987.5	50°	4659.1	3925.5	1905.6	949.2	707.5	664.1	604.8	568.6	544.0	525.2
5758.7	52.5°	5344.9	4366.8	1865.1	803.0	633.7	610.6	591.8	567.2	545.5	529.6
6477.8	55°	6000.3	4855.8	1821.7	682.9	581.7	584.6	594.7	573.0	554.2	529.6
7283.8	57.5°	6738.3	5355.0	1661.1	594.7	542.6	571.5	591.8	567.2	548.4	529.6
8108.5	60°	7194.0	5635.7	1347.1	518.0	507.9	546.9	574.4	548.4	528.1	535.4
8487.6	62.5°	7379.3	5488.1	1015.7	470.2	483.3	513.7	546.9	536.8	522.3	549.8
8483.2	65°	7063.8	5148.1	726.3	429.7	450.0	480.4	522.3	533.9	538.3	591.8
7791.6	67.5°	6285.4	4482.5	533.9	396.5	415.3	460.1	539.7	558.5	555.6	622.2
6538.6	70°	5029.5	3505.9	416.7	369.0	402.2	476.0	564.3	564.3	544.0	622.2
4987.5	72.5°	3659.2	2471.3	358.8	337.1	369.0	437.0	561.4	560.0	533.9	568.6
3176.0	75°	2215.2	1438.2	316.9	305.3	316.9	374.8	536.8	528.1	492.0	489.1
1527.9	77.5°	1104.0	723.5	259.0	270.6	276.4	314.0	471.7	484.7	435.5	423.9
603.4	80°	465.9	315.4	215.6	233.0	233.0	264.8	392.1	400.8	361.7	340.0
238.7	82.5°	212.7	180.9	183.8	202.6	189.5	205.5	311.1	321.2	293.7	257.6
101.3	85°	89.7	102.7	140.4	159.2	140.4	133.1	214.1	225.7	191.0	159.2
43.4	87.5°	40.5	56.4	88.3	115.8	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>
1659.6
1658.2
1718.9
1779.7
1776.8
1730.5
1700.1
1668.3
1601.7
1516.4
1423.8
1287.8
1138.7
989.7
852.2
749.5
668.5
596.1
558.5
536.8
528.1
528.1
528.1
528.1
529.6
542.6
591.8
626.5
609.2
548.4
483.3
416.7
332.8
251.8
160.6
66.6
0.0

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