

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: P477256

Luminaire Tested: **IFLD-S-SA2C-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477256
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

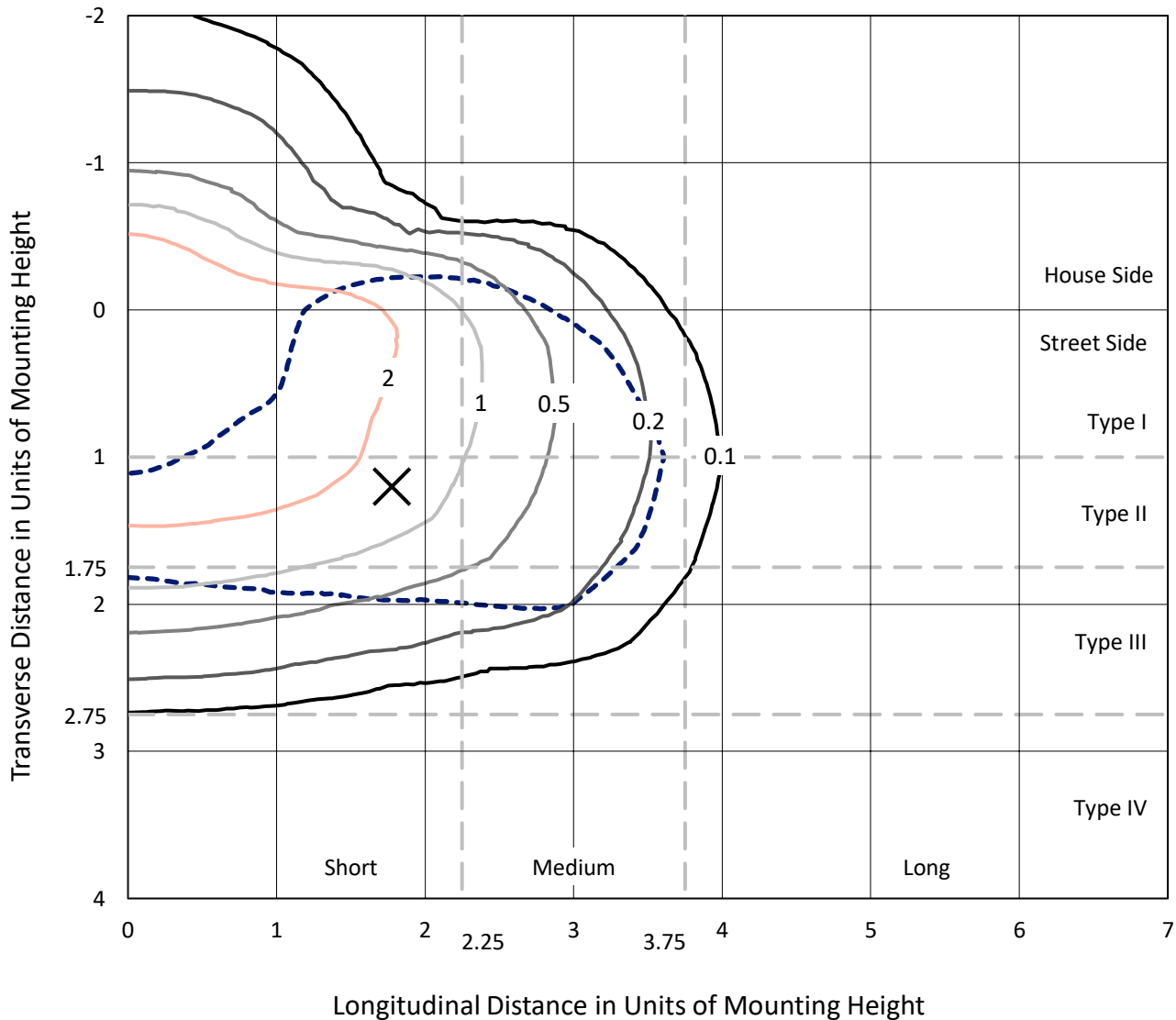
Lumens per Lamp: N/A
Luminaire Lumens: 12106.8 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

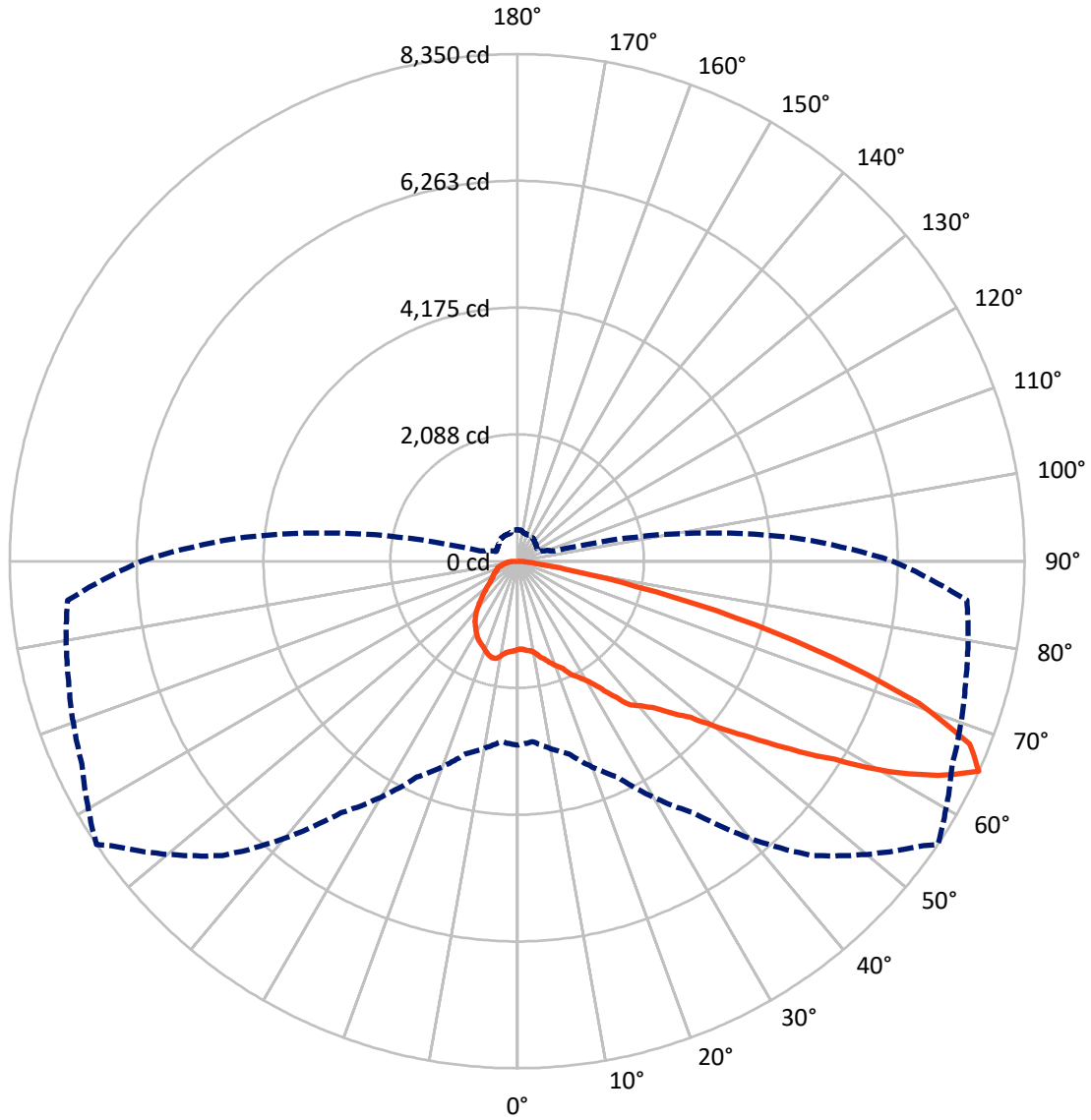
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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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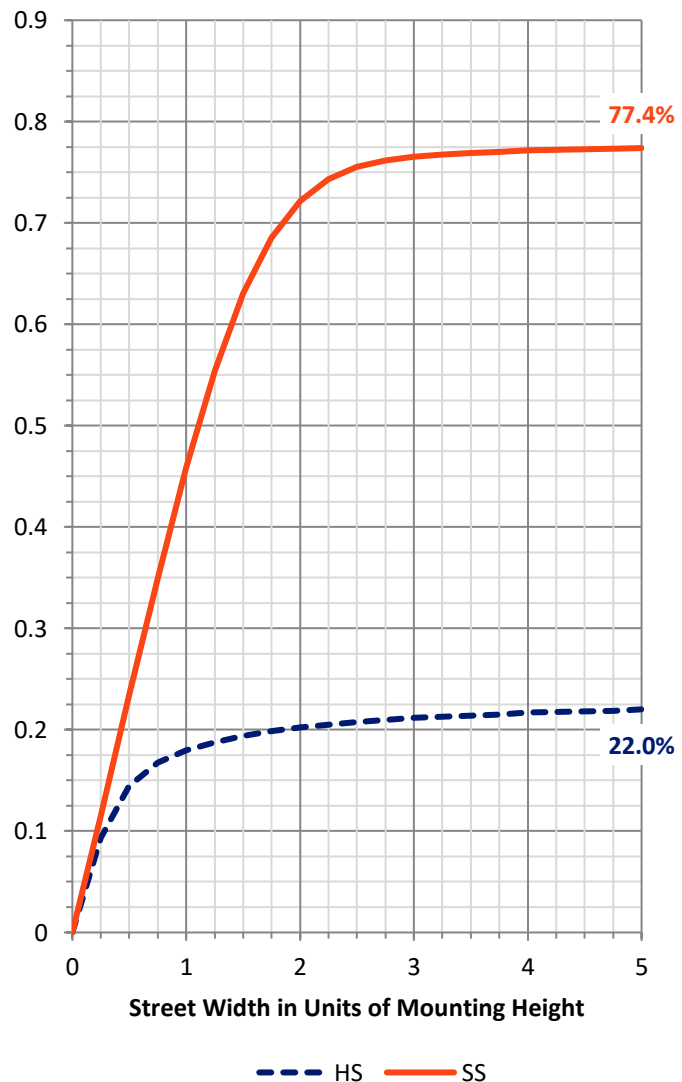
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2715.2	0.0	2715.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	9391.6	0.0	9391.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	12106.8	0.0	12106.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	1.2
10°-20°	467.6	3.9
20°-30°	832.6	6.9
30°-40°	1246.8	10.3
40°-50°	1847.3	15.3
50°-60°	2846.4	23.5
60°-70°	3222.4	26.6
70°-80°	1337.3	11.0
80°-90°	162.5	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°	12106.8	100.0
0°-180°	12106.8	100.0

Coefficient of Utilization

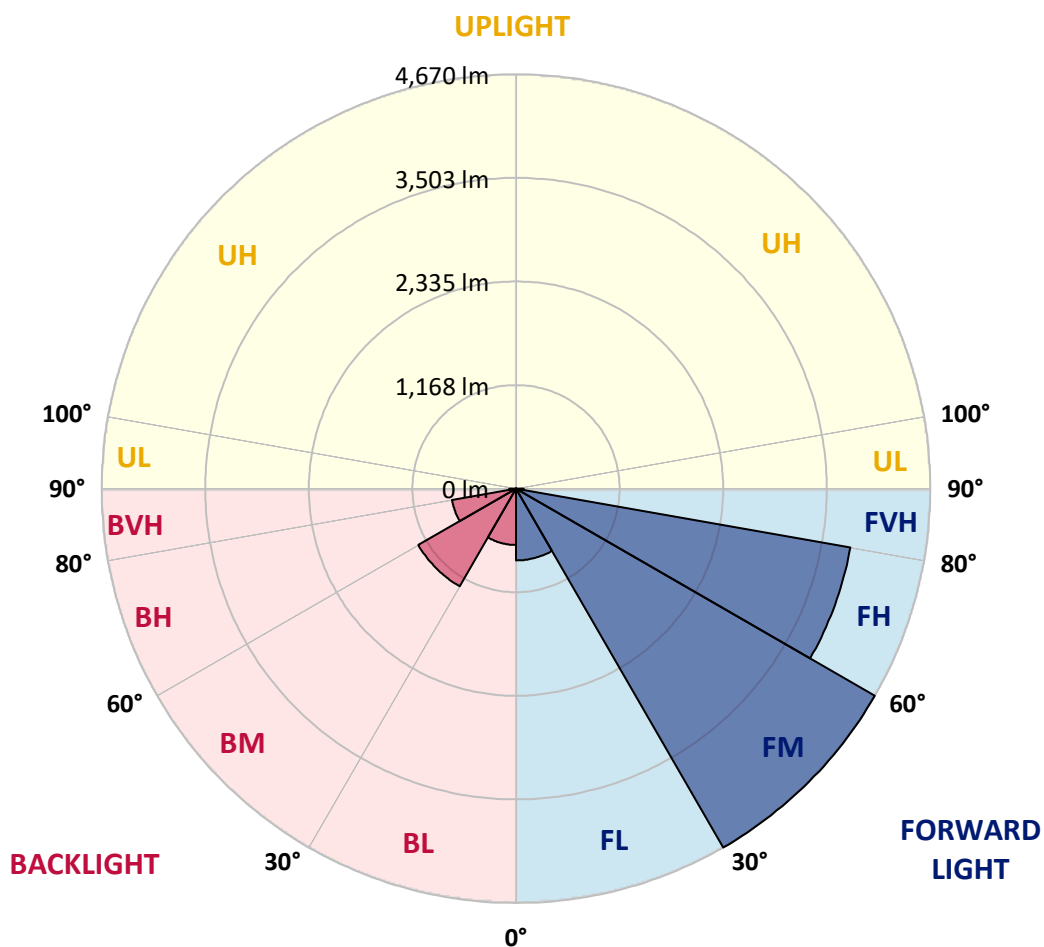


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.1	6.7			
FM (30°-60°)	4670.3	38.6			
FH (60°-80°)	3826.6	31.6			G2/5000
FVH (80°-90°)	85.7	0.7			G1/100
BL (0°-30°)	635.1	5.2	B2/1000		
BM (30°-60°)	1270.1	10.5	B2/2500		
BH (60°-80°)	733.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	76.8	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°	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2
2.5°	1415.2	1422.8	1417.7	1432.9	1445.6	1445.6	1455.7	1448.1	1458.2	1472.2
5°	1462.0	1431.6	1448.1	1455.7	1451.9	1458.2	1448.1	1473.4	1457.0	1483.6
7.5°	1473.4	1484.8	1498.8	1486.1	1497.5	1491.2	1492.4	1488.6	1479.8	1501.3
10°	1557.1	1540.6	1572.3	1553.3	1550.7	1548.2	1543.1	1524.1	1545.6	1546.9
12.5°	1653.3	1638.1	1636.9	1621.7	1641.9	1605.2	1612.8	1602.7	1606.5	1611.5
15°	1723.0	1716.7	1745.8	1728.1	1701.5	1685.0	1702.7	1674.9	1688.8	1686.3
17.5°	1861.1	1859.8	1838.3	1809.2	1794.0	1769.9	1766.1	1754.7	1764.8	1759.8
20°	1957.4	1971.3	1975.1	1940.9	1882.7	1856.0	1849.7	1840.8	1852.2	1848.4
22.5°	2104.4	2082.8	2099.3	2039.7	2018.2	1954.9	1932.1	1919.4	1973.9	1959.9
25°	2198.1	2220.9	2204.4	2184.2	2136.0	2057.5	2041.0	2068.9	2090.4	2075.2
27.5°	2409.7	2386.9	2371.7	2310.9	2279.2	2196.8	2177.8	2167.7	2172.8	2181.6
30°	2570.6	2583.3	2549.1	2506.0	2426.2	2342.5	2298.2	2289.3	2271.6	2256.4
32.5°	2799.9	2780.9	2760.6	2732.8	2664.3	2554.1	2511.0	2478.1	2424.9	2353.9
35°	2910.1	2964.6	2949.4	2874.7	2822.7	2780.9	2768.2	2717.6	2673.2	2561.7
37.5°	3093.8	3116.6	3095.1	3071.0	3047.0	3002.6	2987.4	3001.3	2913.9	2730.2
40°	3212.9	3261.1	3305.4	3238.3	3233.2	3242.1	3148.3	3131.8	2951.9	2855.6
42.5°	3456.2	3476.4	3485.3	3482.8	3511.9	3511.9	3333.3	3297.8	3169.8	3091.3
45°	3778.0	3794.4	3826.1	3848.9	3816.0	3832.4	3577.8	3563.9	3449.8	3434.6
47.5°	4056.7	4096.0	4166.9	4234.1	4277.1	4221.4	3942.7	3843.9	3814.7	3905.9
50°	4299.9	4253.1	4419.0	4487.4	4676.2	4768.7	4345.6	4306.3	4259.4	4434.2
52.5°	4324.0	4387.4	4621.7	4758.6	5147.5	5318.6	4839.7	4823.2	4766.2	4967.6
55°	4496.3	4488.7	4724.4	5020.8	5483.3	5770.8	5483.3	5473.1	5349.0	5540.3
57.5°	4467.2	4544.5	4730.7	5145.0	5786.0	6256.1	6229.5	6159.8	5986.2	6142.1
60°	4368.4	4388.6	4615.4	5141.2	5962.1	6754.0	7035.2	7049.2	6694.4	6818.6
62.5°	3808.4	3855.3	4142.8	4737.0	5836.7	7097.3	7822.0	7772.6	7488.8	7346.9
65°	3029.2	2982.3	3281.3	3923.7	5056.3	6854.1	8166.6	8350.3	7904.3	7644.6
67.5°	1857.3	1845.9	2133.5	2699.8	3783.0	5832.9	7891.7	8034.8	7789.1	7581.3
70°	956.5	927.4	1107.3	1506.4	2378.0	4279.7	6868.0	7008.6	7243.0	6799.6
72.5°	446.0	439.6	535.9	741.2	1211.2	2516.1	5318.6	5419.9	5914.0	5732.8
75°	262.3	266.1	320.5	387.7	590.4	1185.8	3529.7	3726.0	4261.9	4131.4
77.5°	196.4	196.4	228.0	269.9	344.6	458.6	1742.0	2001.7	2492.0	2241.2
80°	144.4	147.0	174.8	202.7	239.4	236.9	691.7	810.8	1142.8	976.8
82.5°	112.8	116.6	135.6	150.8	168.5	143.2	283.8	305.3	470.0	373.7
85°	78.5	81.1	106.4	102.6	102.6	79.8	117.8	124.2	186.2	177.4
87.5°	19.0	21.5	51.9	57.0	43.1	24.1	36.7	41.8	67.1	77.3
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°
1453.2	0°	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2	1453.2
1478.5	2.5°	1459.5	1464.6	1486.1	1474.7	1481.0	1454.4	1476.0	1458.2	1473.4	1465.8
1489.9	5°	1500.0	1488.6	1501.3	1492.4	1492.4	1502.6	1517.8	1506.4	1529.2	1519.0
1498.8	7.5°	1516.5	1517.8	1525.4	1526.6	1520.3	1552.0	1553.3	1549.4	1571.0	1565.9
1559.6	10°	1557.1	1558.3	1572.3	1579.9	1573.5	1584.9	1572.3	1562.1	1560.9	1555.8
1607.7	12.5°	1621.7	1634.3	1631.8	1638.1	1639.4	1591.3	1562.1	1512.7	1506.4	1512.7
1678.7	15°	1681.2	1676.1	1678.7	1691.3	1638.1	1560.9	1508.9	1467.1	1469.6	1470.9
1771.2	17.5°	1752.2	1756.0	1759.8	1701.5	1603.9	1512.7	1467.1	1467.1	1454.4	1459.5
1835.8	20°	1833.2	1818.0	1785.1	1702.7	1544.4	1457.0	1443.0	1443.0	1427.8	1417.7
1905.5	22.5°	1896.6	1866.2	1816.8	1663.5	1491.2	1435.4	1401.2	1377.1	1359.4	1339.1
1982.7	25°	1937.1	1920.7	1824.4	1622.9	1451.9	1378.4	1327.7	1291.0	1268.2	1241.6
2043.6	27.5°	1999.2	1967.5	1845.9	1576.1	1408.8	1321.4	1242.9	1185.8	1142.8	1114.9
2136.0	30°	2082.8	2037.2	1830.7	1508.9	1342.9	1222.6	1130.1	1056.6	1007.2	984.4
2223.5	32.5°	2151.2	2091.7	1818.0	1448.1	1269.5	1122.5	999.6	924.9	897.0	867.8
2370.4	35°	2281.7	2163.9	1809.2	1413.9	1203.6	1022.4	893.2	828.6	793.1	750.0
2457.8	37.5°	2381.8	2289.3	1787.6	1342.9	1118.7	924.9	812.1	753.8	700.6	655.0
2660.5	40°	2538.9	2464.2	1788.9	1242.9	1018.6	841.2	748.8	687.9	620.8	581.5
2960.8	42.5°	2834.1	2636.5	1796.5	1163.0	905.9	772.8	691.7	619.5	552.4	519.4
3302.9	45°	3196.5	2873.4	1749.6	1090.8	790.6	708.2	623.3	551.1	508.0	484.0
3767.8	47.5°	3613.3	3105.2	1686.3	955.3	694.3	639.8	560.0	518.2	486.5	472.6
4367.1	50°	4079.5	3437.2	1668.5	831.1	619.5	581.5	529.6	497.9	476.4	459.9
5042.4	52.5°	4680.0	3823.6	1633.1	703.1	554.9	534.6	518.2	496.6	477.6	463.7
5672.0	55°	5253.9	4251.8	1595.1	598.0	509.3	511.8	520.7	501.7	485.2	463.7
6377.7	57.5°	5900.1	4688.9	1454.4	520.7	475.1	500.4	518.2	496.6	480.2	463.7
7099.8	60°	6299.2	4934.7	1179.5	453.6	444.7	478.9	503.0	480.2	462.4	468.8
7431.8	62.5°	6461.3	4805.4	889.4	411.8	423.2	449.8	478.9	470.0	457.4	481.4
7428.0	65°	6185.1	4507.7	636.0	376.3	394.0	420.6	457.4	467.5	471.3	518.2
6822.4	67.5°	5503.5	3924.9	467.5	347.1	363.6	402.9	472.6	489.0	486.5	544.8
5725.2	70°	4403.8	3069.8	364.9	323.1	352.2	416.8	494.1	494.1	476.4	544.8
4367.1	72.5°	3204.1	2163.9	314.2	295.2	323.1	382.6	491.6	490.3	467.5	497.9
2780.9	75°	1939.7	1259.3	277.5	267.3	277.5	328.1	470.0	462.4	430.8	428.2
1337.9	77.5°	966.7	633.5	226.8	236.9	242.0	274.9	413.0	424.4	381.3	371.2
528.3	80°	407.9	276.2	188.8	204.0	204.0	231.8	343.3	350.9	316.7	297.7
209.0	82.5°	186.2	158.4	160.9	177.4	166.0	179.9	272.4	281.3	257.2	225.5
88.7	85°	78.5	90.0	122.9	139.4	122.9	116.6	187.5	197.6	167.2	139.4
38.0	87.5°	35.5	49.4	77.3	101.4	62.1	54.5	100.1	103.9	83.6	62.1
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>
1453.2
1451.9
1505.1
1558.3
1555.8
1515.2
1488.6
1460.8
1402.5
1327.7
1246.7
1127.6
997.1
866.6
746.2
656.3
585.3
522.0
489.0
470.0
462.4
462.4
462.4
462.4
463.7
475.1
518.2
548.6
533.4
480.2
423.2
364.9
291.4
220.4
140.6
58.3
0.0

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