

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: P477881

Luminaire Tested: **IFLD-S-SA2D-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477881
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

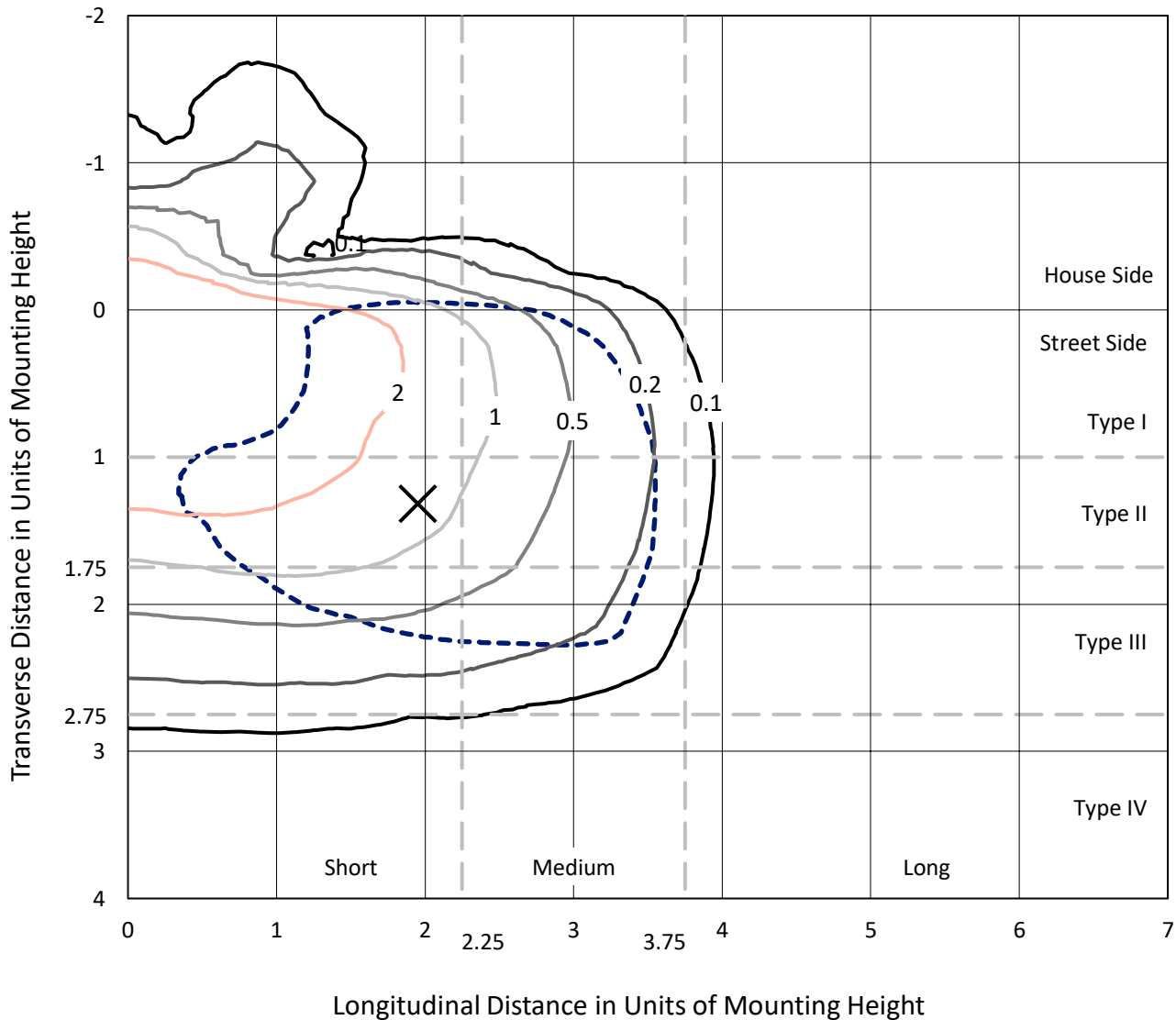
Lumens per Lamp: N/A
Luminaire Lumens: 11293.1 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

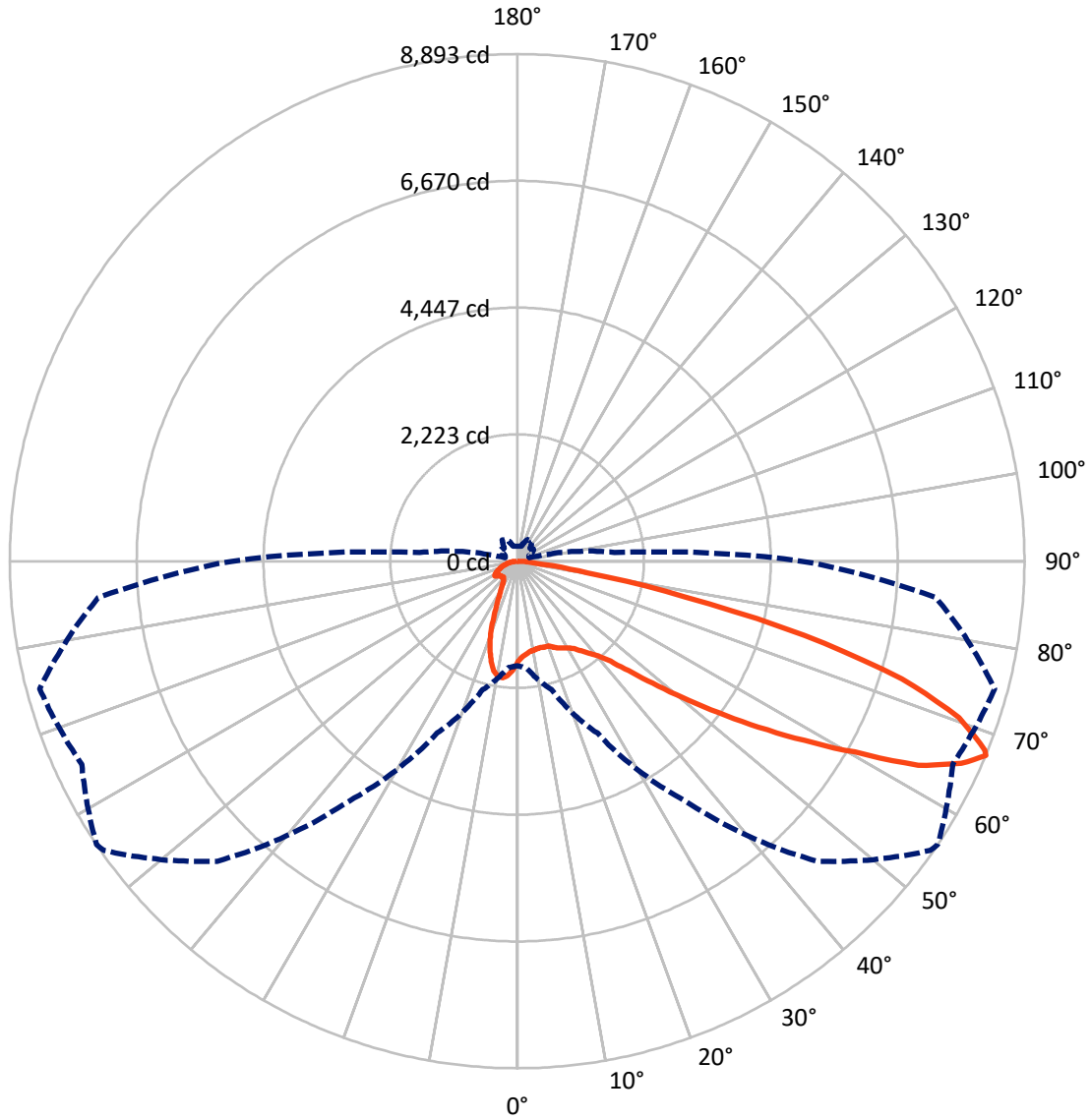
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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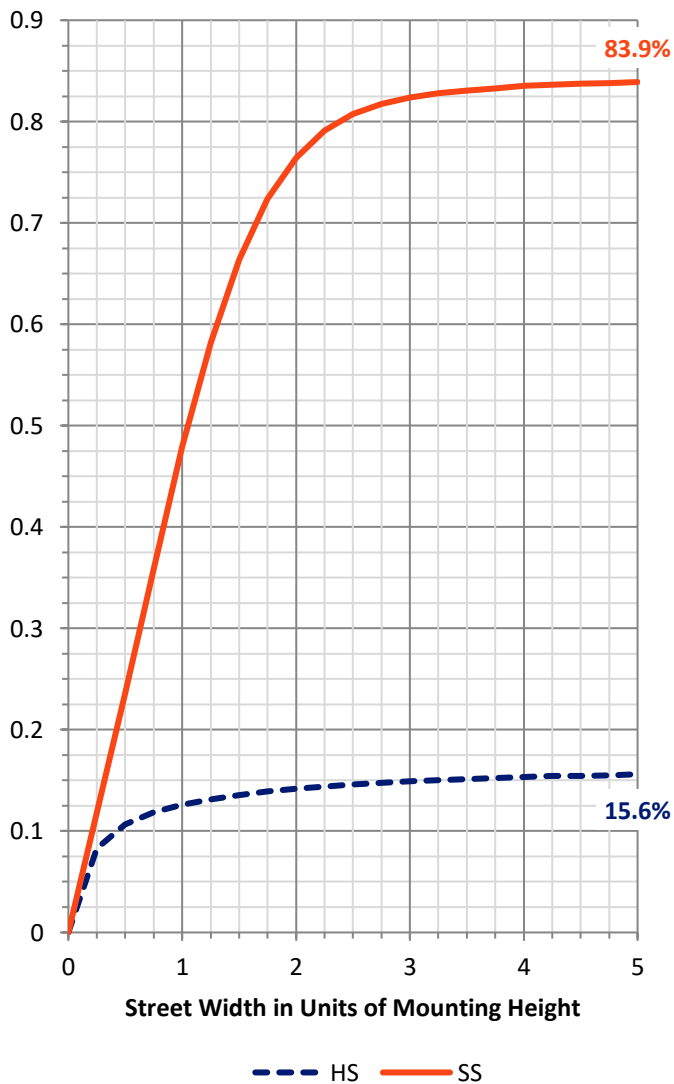
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1787.8	0.0	1787.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	9505.3	0.0	9505.3
	% Fixture	84.2	0.0	84.2
Total	Lumens	11293.1	0.0	11293.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	1.5
10°-20°	461.8	4.1
20°-30°	724.3	6.4
30°-40°	1033.9	9.2
40°-50°	1560.5	13.8
50°-60°	2484.0	22.0
60°-70°	3175.6	28.1
70°-80°	1548.3	13.7
80°-90°	135.4	1.2
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°	11293.1	100.0
0°-180°	11293.1	100.0

Coefficient of Utilization

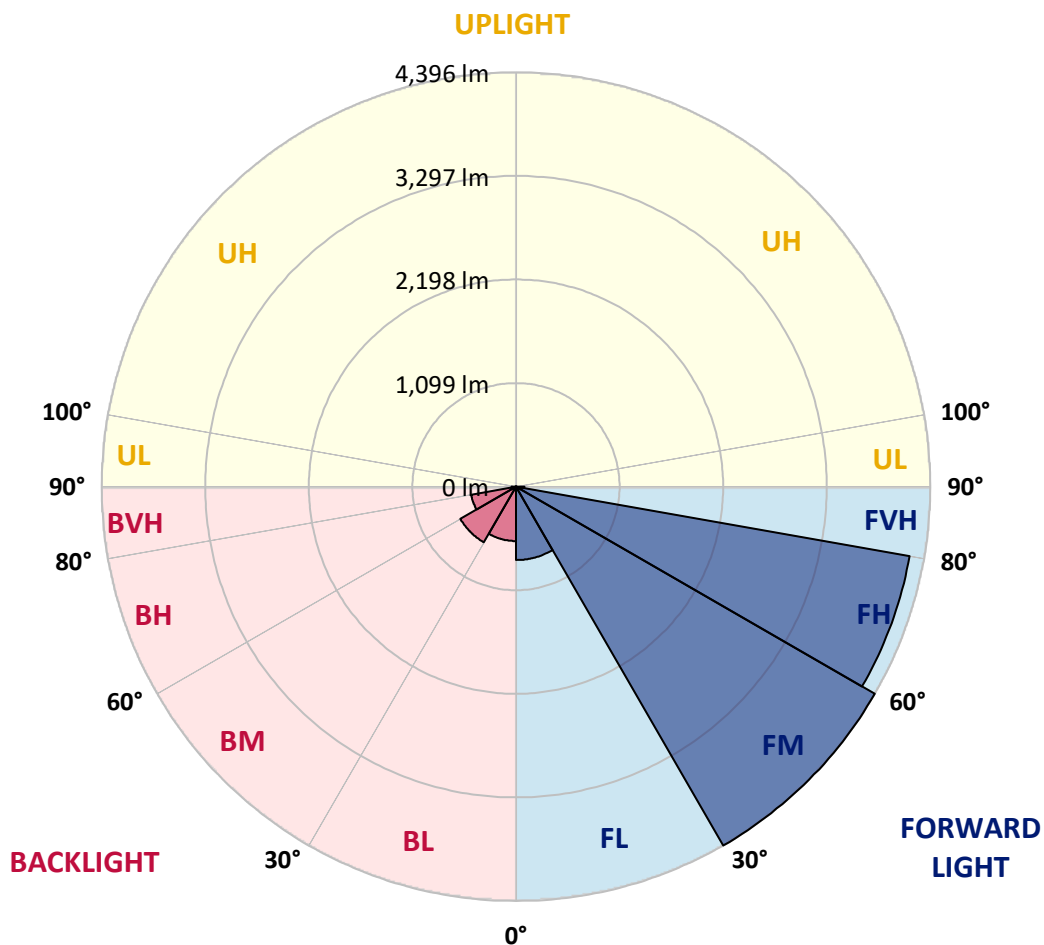


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.2	6.9			
FM (30°-60°)	4396.3	38.9			
FH (60°-80°)	4240.8	37.6			G2/5000
FVH (80°-90°)	90.0	0.8			G1/100
BL (0°-30°)	577.2	5.1	B2/1000		
BM (30°-60°)	682.1	6.0	B1/1000		
BH (60°-80°)	483.1	4.3	B1/500		G1/500
BVH (80°-90°)	45.5	0.4			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°	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2
2.5°	1614.2	1607.5	1615.5	1607.5	1643.3	1664.5	1671.1	1680.4	1713.5	1745.3
5°	1546.6	1517.5	1549.3	1559.9	1562.5	1598.3	1635.4	1642.0	1659.2	1710.8
7.5°	1434.1	1467.2	1455.3	1487.0	1520.1	1555.9	1616.8	1599.6	1663.2	1712.2
10°	1410.2	1412.9	1426.1	1438.0	1467.2	1513.5	1598.3	1587.7	1652.6	1757.2
12.5°	1434.1	1434.1	1430.1	1420.8	1453.9	1499.0	1566.5	1571.8	1673.8	1770.4
15°	1517.5	1533.4	1491.0	1497.6	1484.4	1499.0	1558.5	1570.5	1681.7	1781.0
17.5°	1721.4	1716.1	1665.8	1595.6	1537.4	1528.1	1569.1	1582.4	1673.8	1811.5
20°	1920.0	1909.5	1822.1	1749.2	1634.0	1579.7	1586.4	1587.7	1687.0	1831.3
22.5°	2141.2	2169.0	2073.7	1925.3	1782.3	1647.3	1620.8	1642.0	1717.4	1841.9
25°	2488.1	2428.5	2346.4	2151.8	1921.4	1751.9	1677.7	1688.3	1746.6	1868.4
27.5°	2738.4	2714.5	2586.1	2428.5	2116.0	1834.0	1708.2	1728.0	1799.5	1867.1
30°	2979.4	2979.4	2901.3	2665.6	2321.3	1971.7	1773.1	1763.8	1774.4	1864.4
32.5°	3261.4	3223.0	3110.5	2954.2	2579.5	2097.5	1824.7	1827.4	1827.4	1913.4
35°	3409.7	3472.0	3396.5	3142.3	2776.8	2306.7	1949.2	1929.3	1914.8	1967.7
37.5°	3626.9	3664.0	3584.5	3434.9	3021.8	2476.2	2059.1	2043.2	1958.4	2010.1
40°	3758.0	3751.4	3748.7	3679.9	3346.2	2676.1	2220.6	2179.6	2065.7	2159.7
42.5°	3832.2	3818.9	3981.8	3939.4	3652.1	2970.1	2423.2	2400.7	2274.9	2425.9
45°	3915.6	4013.6	4147.3	4266.5	4008.3	3383.3	2766.2	2734.4	2621.9	2813.9
47.5°	3988.4	4108.9	4279.7	4406.8	4330.0	3832.2	3189.9	3197.9	3123.7	3321.0
50°	4110.2	4122.1	4353.9	4610.8	4670.4	4246.6	3759.3	3746.1	3713.0	3989.7
52.5°	4073.1	4108.9	4401.5	4729.9	4827.9	4684.9	4371.1	4410.8	4367.1	4715.4
55°	3469.3	3576.6	4372.4	4855.7	5201.3	5180.2	5157.6	5131.2	5128.5	5531.1
57.5°	3195.2	3282.6	3852.0	4994.8	5601.2	5757.5	5903.2	5932.3	5931.0	6416.9
60°	3015.1	3105.2	3641.5	4919.3	5941.6	6513.6	6793.0	6797.0	6789.0	7363.7
62.5°	2662.9	2750.3	3277.3	4506.2	6035.6	7211.4	7833.8	7885.4	7521.3	8179.4
65°	2239.2	2310.7	2775.5	3874.5	5785.3	7655.0	8616.4	8555.5	8138.4	8645.5
67°	1831.3	1879.0	2331.9	3326.3	5131.2	7441.8	8842.8	8893.1	8423.1	8665.4
67.5°	1714.8	1758.5	2186.2	3139.6	4882.2	7280.3	8850.8	8842.8	8428.3	8669.3
70°	1190.4	1209.0	1489.7	2159.7	3596.4	6150.8	8204.6	8223.1	8074.8	8199.3
72.5°	789.2	817.0	995.8	1361.2	2120.0	4475.7	6857.9	7056.5	6962.5	6722.8
75°	508.5	524.4	651.5	810.4	1043.4	2549.0	5066.3	5198.7	4982.9	4157.9
77.5°	284.7	301.9	393.3	492.6	508.5	1060.7	2845.6	3009.8	2550.4	1766.4
80°	177.4	199.9	296.6	292.6	242.3	389.3	1173.2	1256.6	1019.6	607.8
82.5°	133.7	151.0	229.1	205.2	136.4	173.5	439.6	471.4	373.4	234.4
85°	91.4	115.2	165.5	127.1	71.5	83.4	174.8	188.0	170.8	113.9
87.5°	33.1	49.0	86.1	63.6	31.8	25.2	56.9	63.6	60.9	51.6
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°
1757.2	0°	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2	1757.2
1773.1	2.5°	1798.2	1816.8	1826.0	1880.3	1902.8	1898.9	1904.2	1912.1	1920.0	1930.6
1795.6	5°	1812.8	1869.7	1900.2	1963.7	2006.1	1987.6	2011.4	2004.8	1995.5	1994.2
1836.6	7.5°	1860.5	1933.3	2024.7	2041.9	2060.4	2014.1	1974.3	1920.0	1906.8	1860.5
1871.1	10°	1945.2	2004.8	2116.0	2122.6	2040.5	1921.4	1832.7	1720.1	1718.8	1651.2
1924.0	12.5°	2026.0	2093.5	2183.6	2145.2	1949.2	1786.3	1642.0	1518.8	1467.2	1432.8
1955.8	15°	2076.3	2187.5	2235.2	2069.7	1789.0	1569.1	1382.4	1250.0	1197.1	1171.9
1995.5	17.5°	2122.6	2277.6	2256.4	1937.3	1591.7	1345.4	1122.9	1007.7	993.1	974.6
2059.1	20°	2186.2	2310.7	2180.9	1765.1	1367.9	1056.7	915.0	859.4	872.6	880.6
2065.7	22.5°	2245.8	2327.9	2085.6	1577.1	1080.5	836.9	766.7	778.6	798.5	825.0
2081.6	25°	2272.3	2355.7	1957.1	1317.5	822.3	704.5	688.6	708.4	741.5	742.9
2104.1	27.5°	2289.5	2335.8	1802.2	1064.6	650.2	615.7	639.6	654.1	658.1	674.0
2151.8	30°	2319.9	2294.8	1606.2	761.4	545.6	546.9	577.3	577.3	577.3	589.3
2199.4	32.5°	2372.9	2267.0	1377.1	556.2	470.1	512.5	504.5	501.9	496.6	482.0
2260.4	35°	2406.0	2191.5	1087.1	411.8	422.4	470.1	467.4	426.4	357.5	323.1
2415.3	37.5°	2474.9	2153.1	799.8	317.8	394.6	448.9	434.3	335.0	259.5	226.4
2607.3	40°	2623.2	2127.9	553.5	278.1	376.1	438.3	388.0	286.0	198.6	140.4
2903.9	42.5°	2804.6	2129.3	376.1	262.2	377.4	460.8	373.4	245.0	140.4	112.6
3299.8	45°	3048.2	2109.4	258.2	262.2	401.2	497.9	382.7	222.5	136.4	143.0
3796.4	47.5°	3310.4	2126.6	192.0	238.4	405.2	499.2	349.6	218.5	131.1	165.5
4336.7	50°	3616.3	2143.8	158.9	219.8	406.5	483.3	321.8	213.2	136.4	174.8
4956.4	52.5°	3931.5	2198.1	135.1	207.9	422.4	476.7	321.8	221.1	136.4	152.3
5745.6	55°	4401.5	2337.2	194.7	259.5	480.7	520.4	395.9	309.9	190.7	196.0
6501.7	57.5°	4920.6	2480.2	217.2	272.8	493.9	468.8	426.4	341.6	201.3	202.6
7089.6	60°	5262.3	2485.5	215.8	266.2	462.1	405.2	417.1	360.2	205.2	173.5
7453.8	62.5°	5398.6	2323.9	225.1	266.2	430.4	378.7	427.7	388.0	211.9	217.2
7557.0	65°	5243.7	1990.2	217.2	238.4	378.7	339.0	430.4	393.3	231.7	218.5
7371.7	67°	5001.4	1714.8	221.1	226.4	352.2	321.8	452.9	413.1	268.8	262.2
7275.0	67.5°	4932.5	1642.0	219.8	219.8	343.0	316.5	458.2	413.1	274.1	271.5
6420.9	70°	4347.3	1330.8	225.1	217.2	303.2	300.6	487.3	435.7	315.2	317.8
4716.7	72.5°	3309.1	1009.0	223.8	217.2	263.5	287.3	491.3	450.2	343.0	317.8
2641.7	75°	1880.3	603.8	197.3	189.4	207.9	250.3	459.5	429.0	333.7	284.7
1055.4	77.5°	777.3	311.2	181.4	170.8	172.1	203.9	382.7	399.9	317.8	242.3
352.2	80°	290.0	186.7	145.7	136.4	132.4	149.6	272.8	319.1	271.5	198.6
154.9	82.5°	151.0	116.5	99.3	99.3	90.0	95.3	147.0	211.9	205.2	136.4
62.2	85°	76.8	66.2	56.9	55.6	50.3	45.0	74.2	125.8	117.9	75.5
27.8	87.5°	41.0	37.1	23.8	22.5	18.5	11.9	13.2	25.2	41.0	33.1
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>
1757.2
1941.2
2006.1
1876.3
1648.6
1424.8
1166.6
983.9
871.3
810.4
756.1
688.6
602.5
474.1
339.0
225.1
136.4
109.9
145.7
184.1
202.6
156.3
206.6
196.0
178.8
219.8
214.5
258.2
266.2
294.0
282.0
254.2
229.1
181.4
107.3
62.2
23.8
0.0

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