

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: P477608

Luminaire Tested: **IFLD-S-SA2D-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477608
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

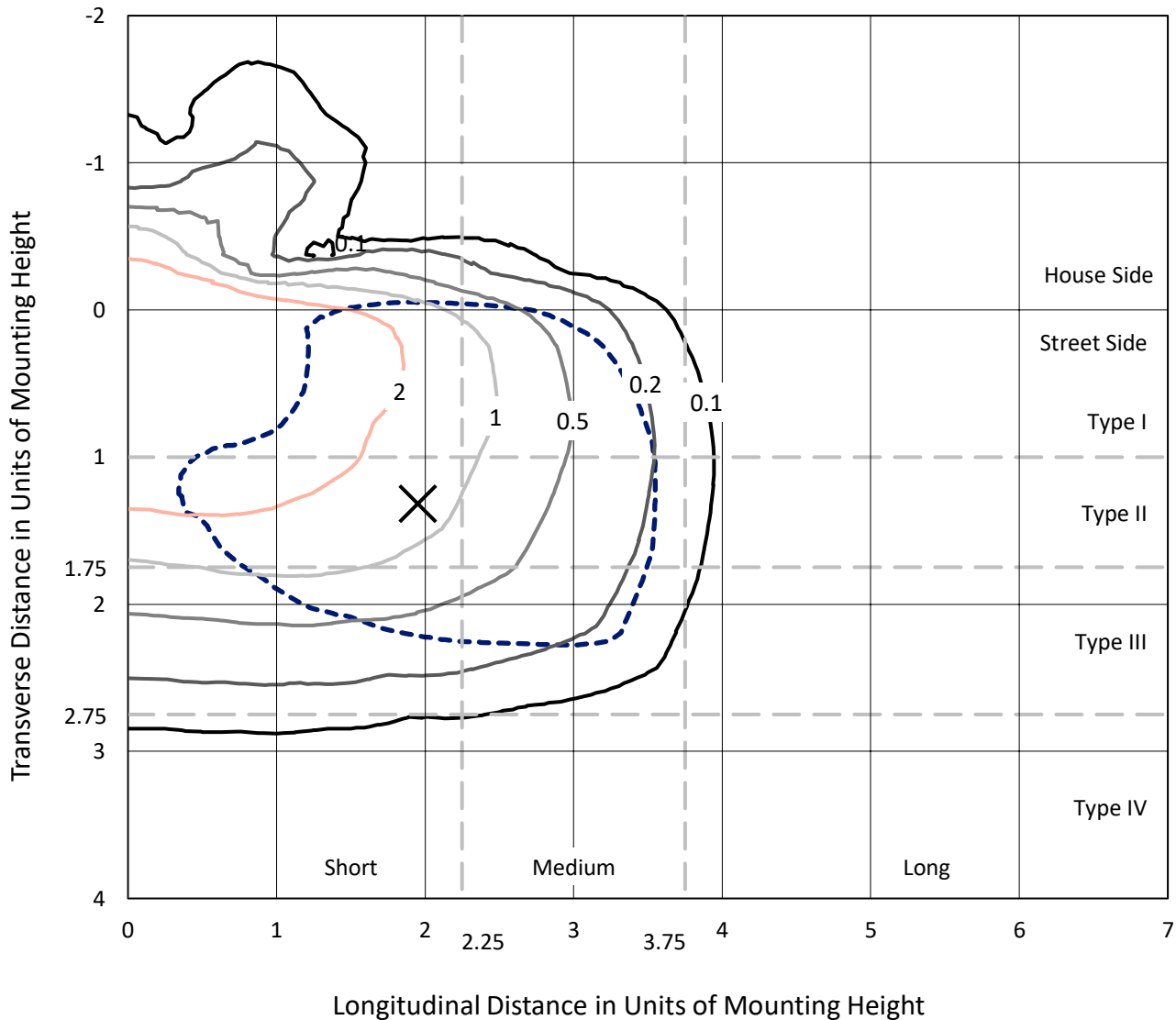
Lumens per Lamp: N/A
Luminaire Lumens: 11316.1 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

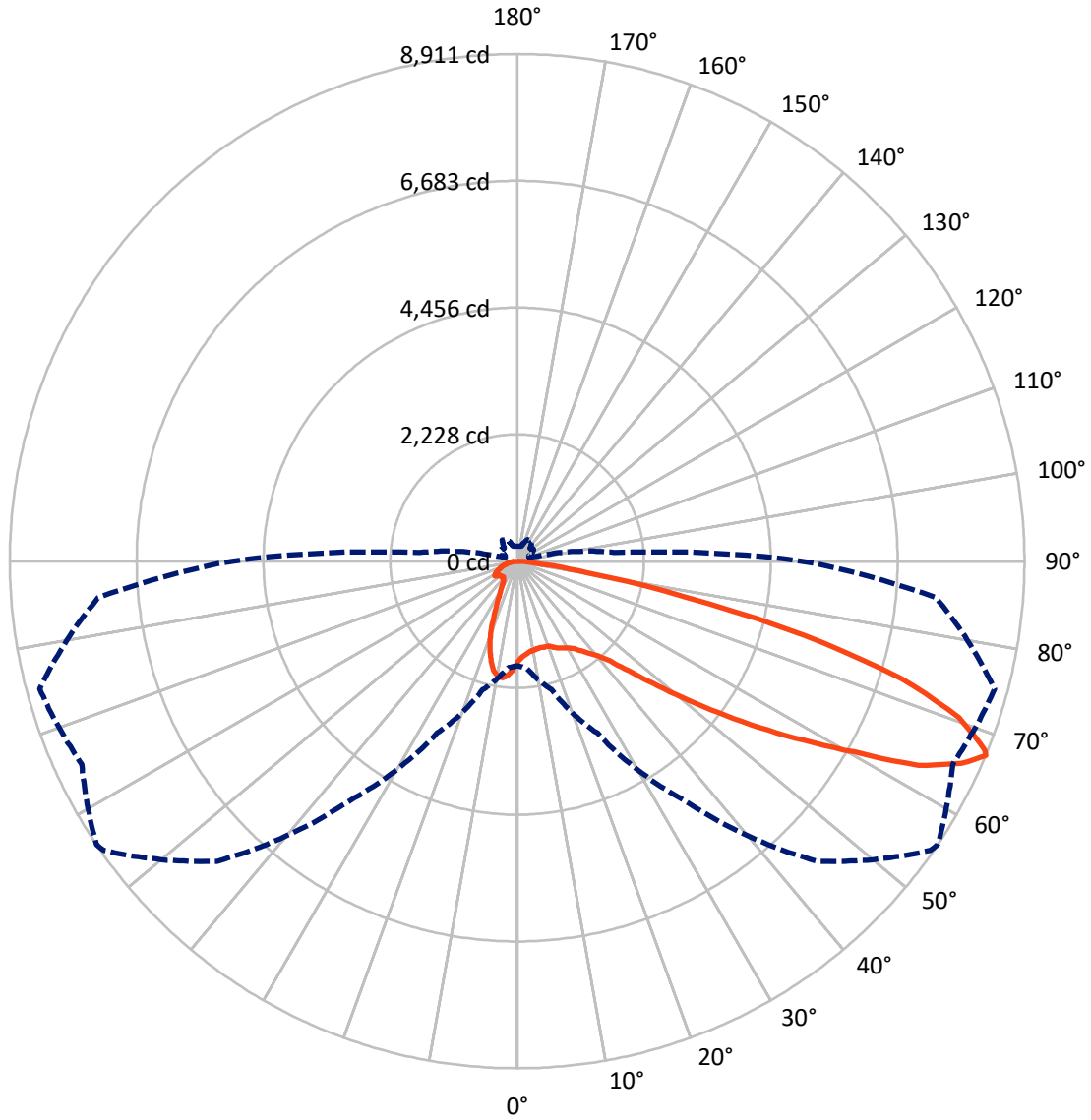
✕ Max cd
 - - - 1/2 Max cd



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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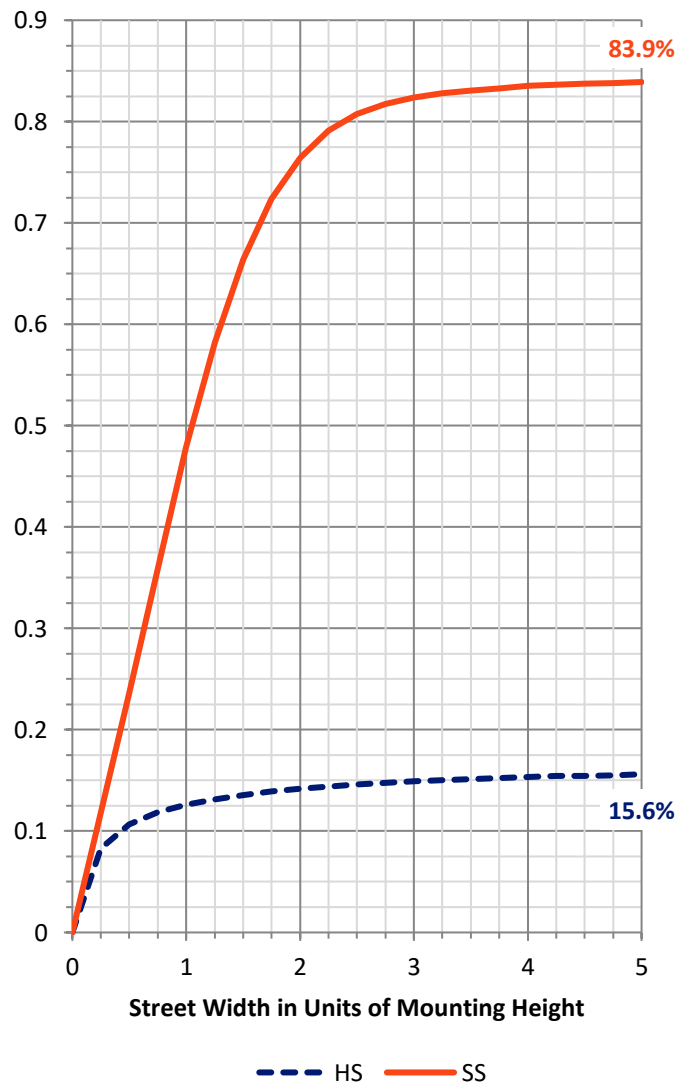
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1791.5	0.0	1791.5
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	9524.7	0.0	9524.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	11316.1	0.0	11316.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	1.5
10°-20°	462.8	4.1
20°-30°	725.8	6.4
30°-40°	1036.0	9.2
40°-50°	1563.7	13.8
50°-60°	2489.1	22.0
60°-70°	3182.1	28.1
70°-80°	1551.5	13.7
80°-90°	135.7	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°	11316.1	100.0
0°-180°	11316.1	100.0

Coefficient of Utilization

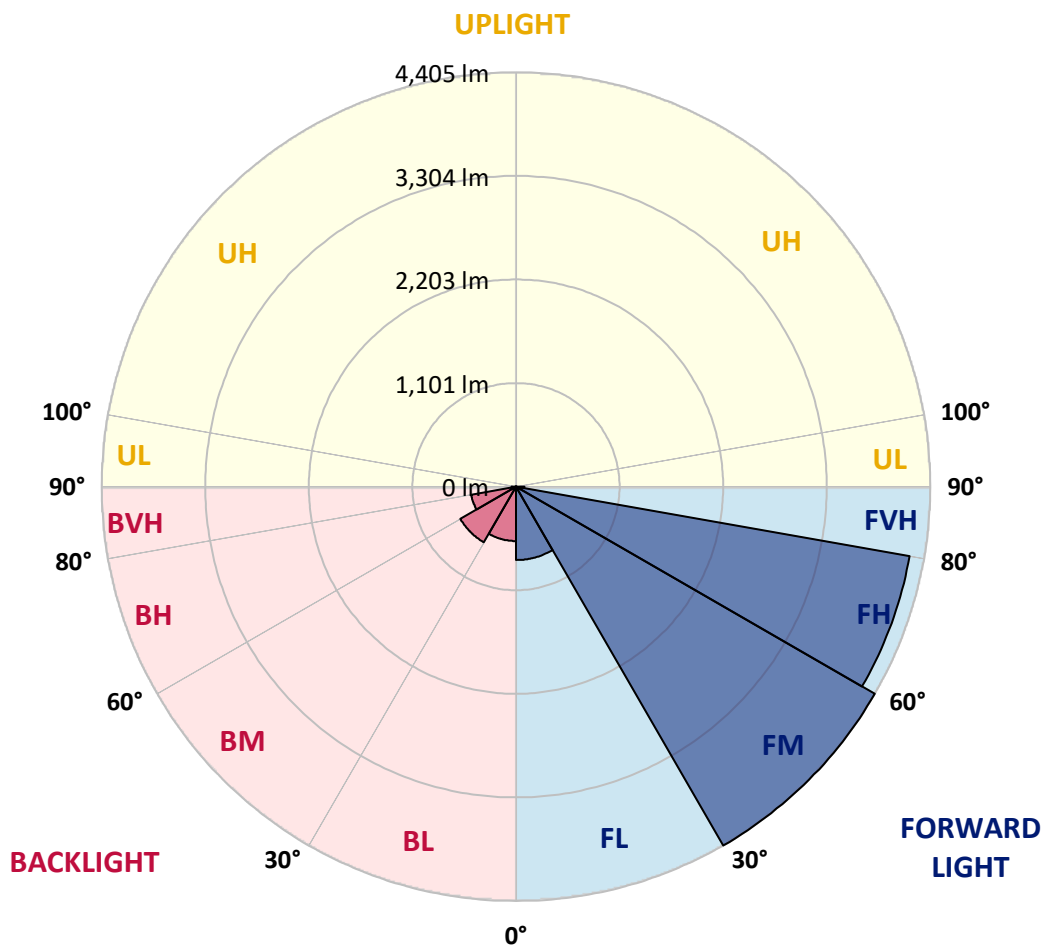


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.8	6.9			
FM (30°-60°)	4405.3	38.9			
FH (60°-80°)	4249.5	37.6			G2/5000
FVH (80°-90°)	90.1	0.8			G1/100
BL (0°-30°)	578.3	5.1	B2/1000		
BM (30°-60°)	683.5	6.0	B1/1000		
BH (60°-80°)	484.1	4.3	B1/500		G1/500
BVH (80°-90°)	45.6	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°	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8
2.5°	1617.5	1610.8	1618.8	1610.8	1646.6	1667.9	1674.5	1683.8	1717.0	1748.8
5°	1549.8	1520.6	1552.4	1563.1	1565.7	1601.5	1638.7	1645.3	1662.6	1714.3
7.5°	1437.0	1470.2	1458.2	1490.1	1523.2	1559.1	1620.1	1602.9	1666.6	1715.6
10°	1413.1	1415.8	1429.0	1441.0	1470.2	1516.6	1601.5	1590.9	1655.9	1760.8
12.5°	1437.0	1437.0	1433.0	1423.7	1456.9	1502.0	1569.7	1575.0	1677.2	1774.0
15°	1520.6	1536.5	1494.1	1500.7	1487.4	1502.0	1561.7	1573.7	1685.1	1784.6
17.5°	1724.9	1719.6	1669.2	1598.9	1540.5	1531.2	1572.3	1585.6	1677.2	1815.2
20°	1924.0	1913.4	1825.8	1752.8	1637.4	1583.0	1589.6	1590.9	1690.4	1835.1
22.5°	2145.6	2173.4	2077.9	1929.3	1786.0	1650.6	1624.1	1645.3	1721.0	1845.7
25°	2493.2	2433.5	2351.2	2156.2	1925.3	1755.5	1681.1	1691.8	1750.1	1872.2
27.5°	2744.0	2720.1	2591.4	2433.5	2120.3	1837.7	1711.7	1731.6	1803.2	1870.9
30°	2985.5	2985.5	2907.2	2671.0	2326.0	1975.7	1776.7	1767.4	1778.0	1868.2
32.5°	3268.1	3229.6	3116.8	2960.3	2584.7	2101.8	1828.4	1831.1	1831.1	1917.3
35°	3416.7	3479.1	3403.4	3148.7	2782.5	2311.4	1953.2	1933.3	1918.7	1971.7
37.5°	3634.3	3671.5	3591.8	3441.9	3027.9	2481.3	2063.3	2047.4	1962.4	2014.2
40°	3765.7	3759.0	3756.4	3687.4	3353.0	2681.6	2225.2	2184.0	2069.9	2164.1
42.5°	3840.0	3826.7	3989.9	3947.4	3659.5	2976.2	2428.2	2405.6	2279.6	2430.8
45°	3923.6	4021.8	4155.8	4275.2	4016.4	3390.2	2771.8	2740.0	2627.2	2819.6
47.5°	3996.5	4117.3	4288.5	4415.8	4338.9	3840.0	3196.4	3204.4	3130.1	3327.8
50°	4118.6	4130.6	4362.8	4620.2	4679.9	4255.3	3767.0	3753.7	3720.6	3997.9
52.5°	4081.5	4117.3	4410.5	4739.6	4837.8	4694.5	4380.0	4419.8	4376.0	4725.0
55°	3476.4	3583.9	4381.3	4865.6	5212.0	5190.7	5168.2	5141.6	5139.0	5542.3
57.5°	3201.7	3289.3	3859.9	5005.0	5612.7	5769.2	5915.2	5944.4	5943.1	6430.0
60°	3021.3	3111.5	3648.9	4929.3	5953.7	6526.9	6806.9	6810.8	6802.9	7378.7
62.5°	2668.3	2755.9	3284.0	4515.3	6047.9	7226.1	7849.8	7901.5	7536.6	8196.1
65°	2243.7	2315.4	2781.1	3882.4	5797.1	7670.7	8634.0	8572.9	8155.0	8663.2
67°	1835.1	1882.8	2336.6	3333.1	5141.6	7457.0	8860.9	8911.3	8440.2	8683.1
67.5°	1718.3	1762.1	2190.7	3146.0	4892.2	7295.1	8868.8	8860.9	8445.5	8687.0
70°	1192.9	1211.4	1492.7	2164.1	3603.8	6163.3	8221.3	8239.9	8091.3	8216.0
72.5°	790.8	818.7	997.8	1364.0	2124.3	4484.8	6871.9	7070.9	6976.7	6736.5
75°	509.5	525.4	652.8	812.0	1045.6	2554.2	5076.6	5209.3	4993.0	4166.4
77.5°	285.3	302.5	394.1	493.6	509.5	1062.8	2851.4	3016.0	2555.6	1770.0
80°	177.8	200.4	297.2	293.2	242.8	390.1	1175.6	1259.2	1021.7	609.0
82.5°	134.0	151.3	229.5	205.7	136.7	173.8	440.5	472.4	374.2	234.9
85°	91.6	115.4	165.9	127.4	71.7	83.6	175.1	188.4	171.2	114.1
87.5°	33.2	49.1	86.2	63.7	31.8	25.2	57.1	63.7	61.0	51.7
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°
1760.8	0°	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8	1760.8
1776.7	2.5°	1801.9	1820.5	1829.8	1884.2	1906.7	1902.7	1908.0	1916.0	1924.0	1934.6
1799.2	5°	1816.5	1873.5	1904.1	1967.8	2010.2	1991.6	2015.5	2008.9	1999.6	1998.3
1840.4	7.5°	1864.3	1937.2	2028.8	2046.0	2064.6	2018.2	1978.4	1924.0	1910.7	1864.3
1874.9	10°	1949.2	2008.9	2120.3	2127.0	2044.7	1925.3	1836.4	1723.6	1722.3	1654.6
1927.9	12.5°	2030.1	2097.8	2188.0	2149.5	1953.2	1790.0	1645.3	1521.9	1470.2	1435.7
1959.8	15°	2080.5	2192.0	2239.8	2073.9	1792.6	1572.3	1385.3	1252.6	1199.5	1174.3
1999.6	17.5°	2127.0	2282.2	2261.0	1941.2	1594.9	1348.1	1125.2	1009.8	995.2	976.6
2063.3	20°	2190.7	2315.4	2185.4	1768.7	1370.7	1058.8	916.9	861.1	874.4	882.4
2069.9	22.5°	2250.4	2332.6	2089.8	1580.3	1082.7	838.6	768.3	780.2	800.1	826.6
2085.8	25°	2276.9	2360.5	1961.1	1320.2	824.0	705.9	690.0	709.9	743.0	744.4
2108.4	27.5°	2294.2	2340.6	1805.9	1066.8	651.5	617.0	640.9	655.5	659.5	675.4
2156.2	30°	2324.7	2299.5	1609.5	763.0	546.7	548.0	578.5	578.5	578.5	590.5
2203.9	32.5°	2377.8	2271.6	1379.9	557.3	471.0	513.5	505.5	502.9	497.6	483.0
2265.0	35°	2410.9	2196.0	1089.4	412.7	423.3	471.0	468.4	427.3	358.3	323.8
2420.2	37.5°	2479.9	2157.5	801.4	318.4	395.4	449.8	435.2	335.7	260.1	226.9
2612.6	40°	2628.5	2132.3	554.6	278.6	376.8	439.2	388.8	286.6	199.0	140.6
2909.8	42.5°	2810.3	2133.6	376.8	262.7	378.2	461.8	374.2	245.5	140.6	112.8
3306.6	45°	3054.5	2113.7	258.7	262.7	402.0	498.9	383.5	222.9	136.7	143.3
3804.1	47.5°	3317.2	2131.0	192.4	238.8	406.0	500.2	350.3	218.9	131.4	165.9
4345.5	50°	3623.7	2148.2	159.2	220.3	407.3	484.3	322.4	213.6	136.7	175.1
4966.5	52.5°	3939.5	2202.6	135.3	208.3	423.3	477.7	322.4	221.6	136.7	152.6
5757.3	55°	4410.5	2341.9	195.1	260.1	481.7	521.5	396.7	310.5	191.1	196.4
6514.9	57.5°	4930.7	2485.2	217.6	273.3	494.9	469.7	427.3	342.3	201.7	203.0
7104.1	60°	5273.0	2490.5	216.3	266.7	463.1	406.0	418.0	360.9	205.7	173.8
7469.0	62.5°	5409.7	2328.7	225.6	266.7	431.2	379.5	428.6	388.8	212.3	217.6
7572.5	65°	5254.4	1994.3	217.6	238.8	379.5	339.7	431.2	394.1	232.2	218.9
7386.7	67°	5011.6	1718.3	221.6	226.9	352.9	322.4	453.8	414.0	269.4	262.7
7289.8	67.5°	4942.6	1645.3	220.3	220.3	343.7	317.1	459.1	414.0	274.7	272.0
6434.0	70°	4356.1	1333.5	225.6	217.6	303.9	301.2	488.3	436.5	315.8	318.4
4726.3	72.5°	3315.9	1011.1	224.2	217.6	264.0	287.9	492.3	451.1	343.7	318.4
2647.1	75°	1884.2	605.1	197.7	189.7	208.3	250.8	460.4	429.9	334.4	285.3
1057.5	77.5°	778.9	311.8	181.8	171.2	172.5	204.3	383.5	400.7	318.4	242.8
352.9	80°	290.6	187.1	146.0	136.7	132.7	149.9	273.3	319.8	272.0	199.0
155.2	82.5°	151.3	116.8	99.5	99.5	90.2	95.5	147.3	212.3	205.7	136.7
62.4	85°	77.0	66.3	57.1	55.7	50.4	45.1	74.3	126.1	118.1	75.6
27.9	87.5°	41.1	37.2	23.9	22.6	18.6	11.9	13.3	25.2	41.1	33.2
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>
1760.8
1945.2
2010.2
1880.2
1652.0
1427.7
1169.0
985.9
873.1
812.0
757.6
690.0
603.7
475.0
339.7
225.6
136.7
110.1
146.0
184.4
203.0
156.6
207.0
196.4
179.1
220.3
215.0
258.7
266.7
294.6
282.6
254.8
229.5
181.8
107.5
62.4
23.9
0.0

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