

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: P477645

Luminaire Tested: **IFLD-S-SA2B-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477645
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

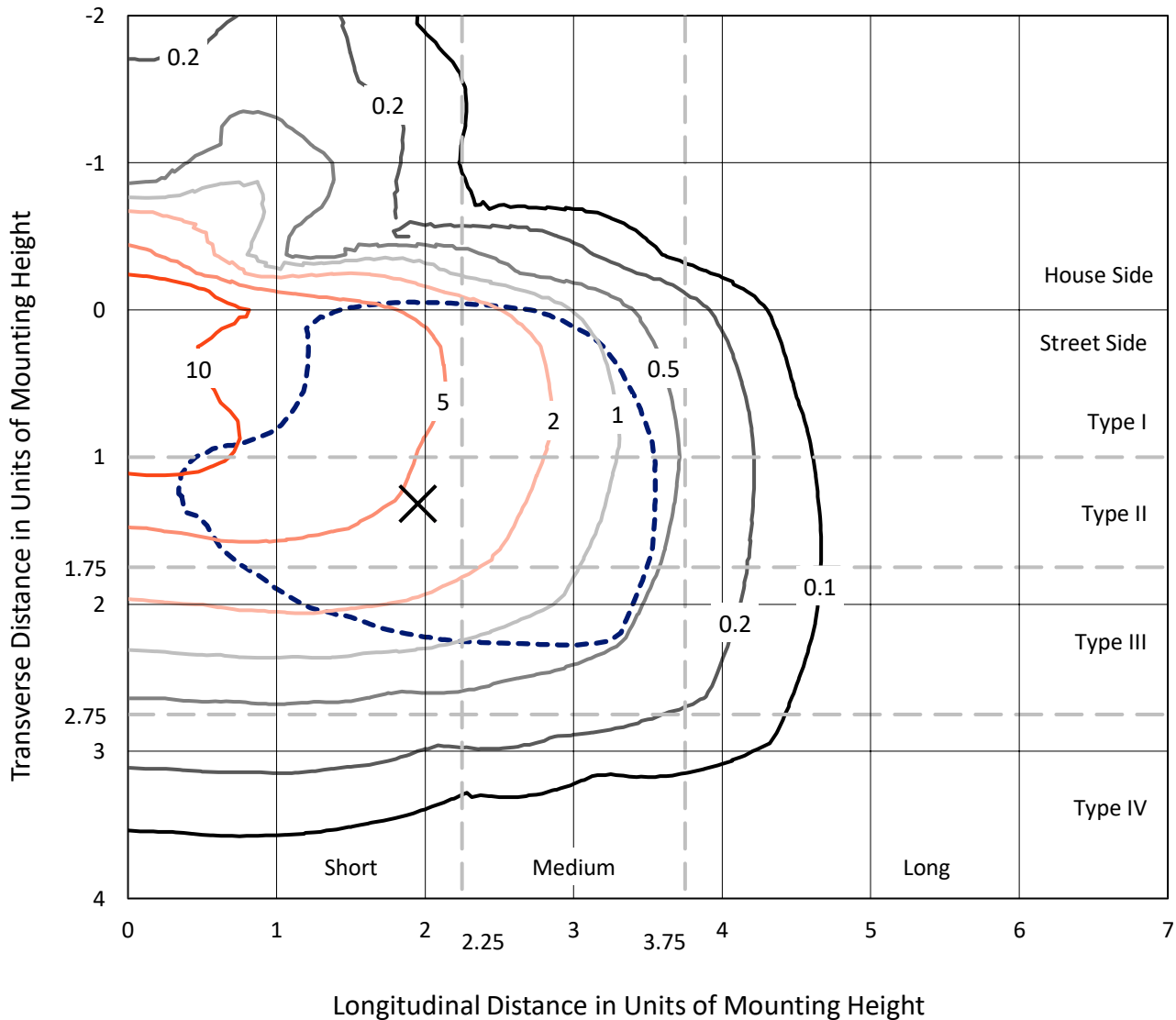
Lumens per Lamp: N/A
Luminaire Lumens: 9379.7 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

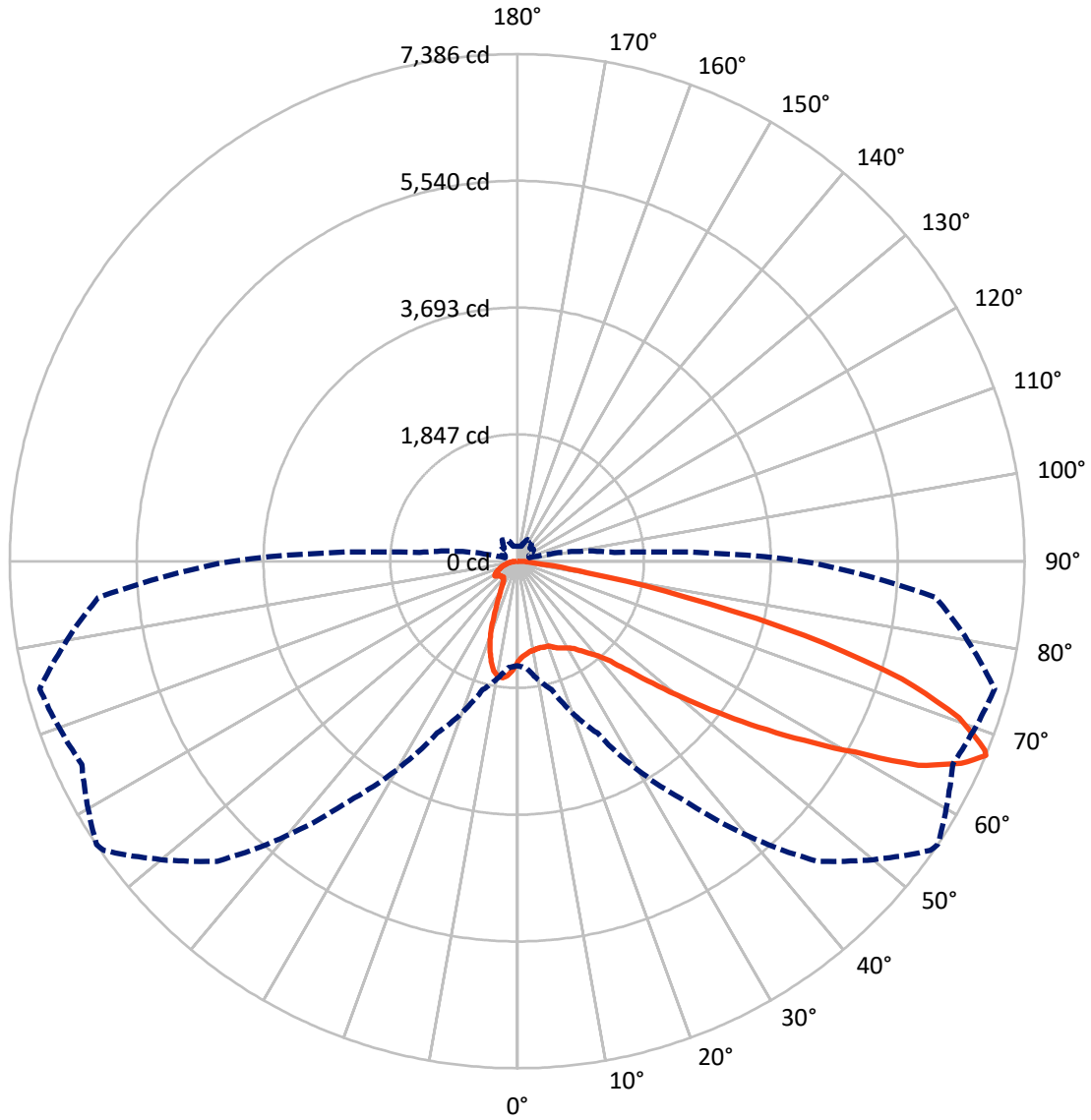
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 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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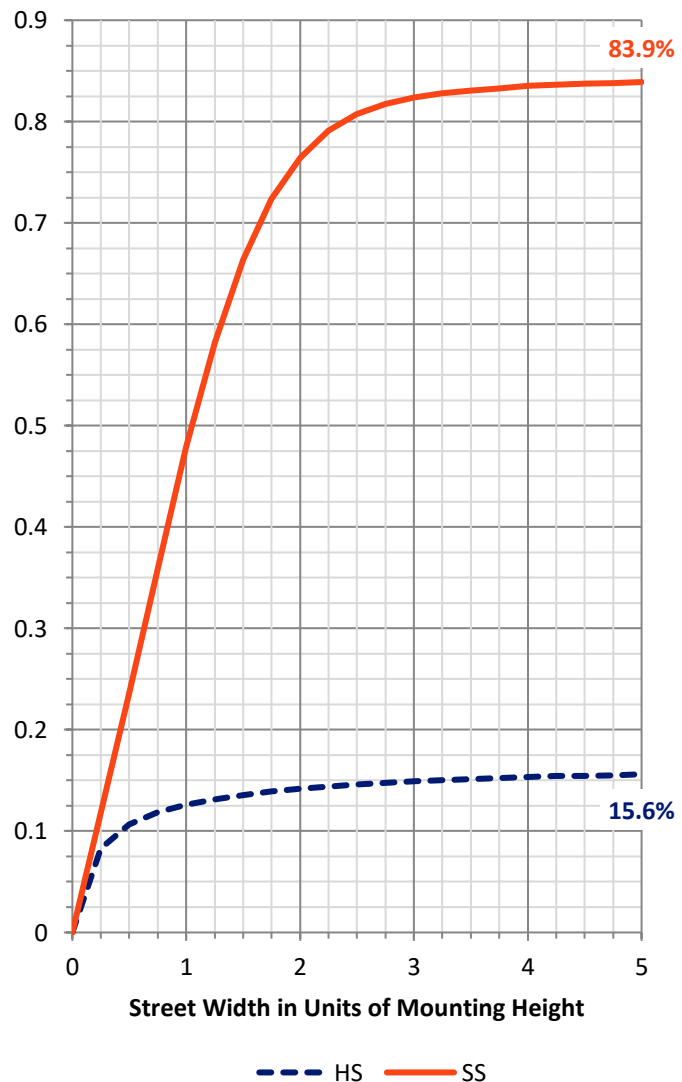
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1484.9	0.0	1484.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	7894.8	0.0	7894.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	9379.7	0.0	9379.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	1.5
10°-20°	383.6	4.1
20°-30°	601.6	6.4
30°-40°	858.7	9.2
40°-50°	1296.1	13.8
50°-60°	2063.1	22.0
60°-70°	2637.5	28.1
70°-80°	1286.0	13.7
80°-90°	112.5	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°	9379.7	100.0
0°-180°	9379.7	100.0

Coefficient of Utilization

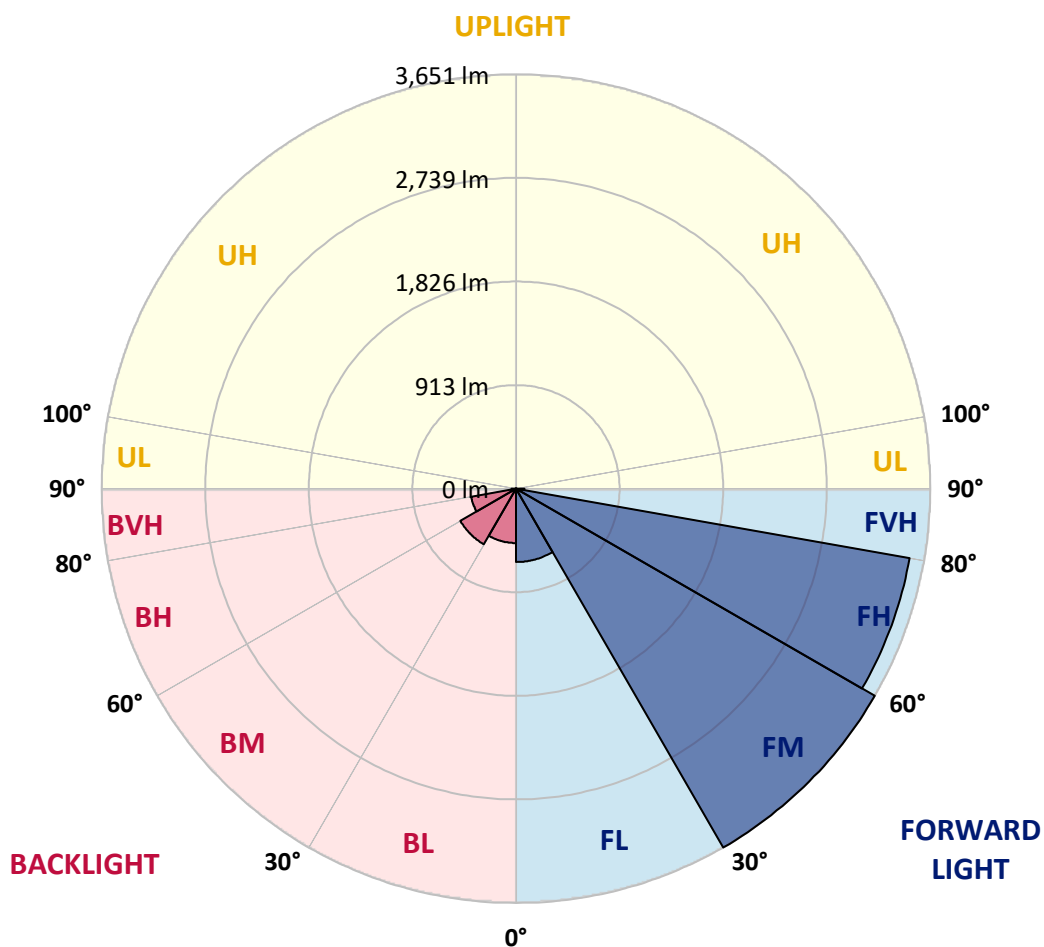


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.4	6.9			
FM (30°-60°)	3651.4	38.9			
FH (60°-80°)	3522.3	37.6			G2/5000
FVH (80°-90°)	74.7	0.8			G1/100
BL (0°-30°)	479.4	5.1	B1/500		
BM (30°-60°)	566.5	6.0	B1/1000		
BH (60°-80°)	401.3	4.3	B1/500		G1/500
BVH (80°-90°)	37.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
2.5°	1340.7	1335.2	1341.8	1335.2	1364.9	1382.5	1388.0	1395.7	1423.2	1449.5
5°	1284.6	1260.4	1286.8	1295.6	1297.8	1327.5	1358.3	1363.8	1378.1	1421.0
7.5°	1191.1	1218.6	1208.7	1235.1	1262.6	1292.3	1342.9	1328.6	1381.4	1422.1
10°	1171.3	1173.5	1184.5	1194.4	1218.6	1257.1	1327.5	1318.7	1372.6	1459.4
12.5°	1191.1	1191.1	1187.8	1180.1	1207.6	1245.0	1301.1	1305.5	1390.2	1470.4
15°	1260.4	1273.6	1238.4	1243.9	1232.9	1245.0	1294.5	1304.4	1396.8	1479.2
17.5°	1429.8	1425.4	1383.6	1325.3	1276.9	1269.2	1303.3	1314.3	1390.2	1504.5
20°	1594.7	1585.9	1513.3	1452.8	1357.2	1312.1	1317.6	1318.7	1401.2	1521.0
22.5°	1778.4	1801.5	1722.3	1599.1	1480.3	1368.2	1346.2	1363.8	1426.5	1529.8
25°	2066.5	2017.1	1948.9	1787.2	1595.8	1455.0	1393.5	1402.3	1450.6	1551.8
27.5°	2274.4	2254.6	2147.9	2017.1	1757.5	1523.2	1418.8	1435.3	1494.6	1550.7
30°	2474.6	2474.6	2409.7	2213.9	1928.0	1637.6	1472.6	1464.9	1473.7	1548.5
32.5°	2708.8	2676.9	2583.5	2453.7	2142.4	1742.1	1515.5	1517.7	1517.7	1589.2
35°	2832.0	2883.7	2821.0	2609.8	2306.3	1915.9	1618.9	1602.4	1590.3	1634.3
37.5°	3012.4	3043.2	2977.2	2852.9	2509.8	2056.6	1710.2	1697.0	1626.6	1669.5
40°	3121.3	3115.8	3113.6	3056.4	2779.2	2222.7	1844.4	1810.3	1715.7	1793.8
42.5°	3182.8	3171.9	3307.1	3271.9	3033.3	2466.9	2012.7	1994.0	1889.5	2014.9
45°	3252.1	3333.5	3444.6	3543.6	3329.1	2810.0	2297.5	2271.1	2177.6	2337.1
47.5°	3312.6	3412.7	3554.6	3660.2	3596.4	3182.8	2649.4	2656.0	2594.5	2758.3
50°	3413.8	3423.7	3616.2	3829.5	3879.0	3527.1	3122.4	3111.4	3083.9	3313.7
52.5°	3383.0	3412.7	3655.8	3928.5	4009.9	3891.1	3630.5	3663.5	3627.2	3916.4
55°	2881.5	2970.6	3631.6	4033.0	4320.1	4302.5	4283.8	4261.8	4259.6	4593.9
57.5°	2653.8	2726.4	3199.3	4148.5	4652.2	4782.0	4903.0	4927.1	4926.0	5329.7
60°	2504.3	2579.1	3024.5	4085.8	4934.8	5410.0	5642.0	5645.3	5638.7	6116.0
62.5°	2211.7	2284.3	2722.0	3742.7	5012.9	5989.6	6506.5	6549.4	6246.9	6793.5
65°	1859.8	1919.2	2305.2	3218.0	4805.1	6358.0	7156.5	7105.9	6759.4	7180.7
67°	1521.0	1560.6	1936.8	2762.7	4261.8	6180.9	7344.5	7386.3	6995.9	7197.2
67.5°	1424.3	1460.5	1815.8	2607.6	4055.0	6046.8	7351.1	7344.5	7000.3	7200.5
70°	988.7	1004.1	1237.3	1793.8	2987.1	5108.6	6814.4	6829.8	6706.6	6810.0
72.5°	655.5	678.6	827.1	1130.6	1760.8	3717.4	5695.9	5860.9	5782.8	5583.7
75°	422.3	435.5	541.1	673.1	866.6	2117.1	4207.9	4317.9	4138.6	3453.4
77.5°	236.5	250.8	326.6	409.1	422.3	880.9	2363.5	2499.9	2118.2	1467.1
80°	147.4	166.1	246.4	243.1	201.3	323.3	974.4	1043.7	846.9	504.8
82.5°	111.1	125.4	190.3	170.5	113.3	144.1	365.1	391.5	310.1	194.7
85°	75.9	95.7	137.5	105.6	59.4	69.3	145.2	156.2	141.9	94.6
87.5°	27.5	40.7	71.5	52.8	26.4	20.9	47.3	52.8	50.6	42.9
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°
1459.4	0°	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4	1459.4
1472.6	2.5°	1493.5	1508.9	1516.6	1561.7	1580.4	1577.1	1581.5	1588.1	1594.7	1603.5
1491.3	5°	1505.6	1552.9	1578.2	1631.0	1666.2	1650.8	1670.6	1665.1	1657.4	1656.3
1525.4	7.5°	1545.2	1605.7	1681.6	1695.9	1711.3	1672.8	1639.8	1594.7	1583.7	1545.2
1554.0	10°	1615.6	1665.1	1757.5	1763.0	1694.8	1595.8	1522.1	1428.7	1427.6	1371.5
1598.0	12.5°	1682.7	1738.8	1813.6	1781.7	1618.9	1483.6	1363.8	1261.5	1218.6	1190.0
1624.4	15°	1724.5	1816.9	1856.5	1719.0	1485.8	1303.3	1148.2	1038.2	994.2	973.3
1657.4	17.5°	1763.0	1891.7	1874.1	1609.0	1322.0	1117.4	932.6	837.0	824.9	809.5
1710.2	20°	1815.8	1919.2	1811.4	1466.0	1136.1	877.6	760.0	713.8	724.8	731.4
1715.7	22.5°	1865.3	1933.5	1732.2	1309.9	897.4	695.1	636.8	646.7	663.2	685.2
1728.9	25°	1887.3	1956.6	1625.5	1094.3	683.0	585.1	571.9	588.4	615.9	617.0
1747.6	27.5°	1901.6	1940.1	1496.8	884.2	540.0	511.4	531.2	543.3	546.6	559.8
1787.2	30°	1926.9	1906.0	1334.1	632.4	453.1	454.2	479.5	479.5	479.5	489.4
1826.8	32.5°	1970.9	1882.9	1143.8	461.9	390.4	425.6	419.0	416.8	412.4	400.3
1877.4	35°	1998.4	1820.2	902.9	342.0	350.8	390.4	388.2	354.1	296.9	268.4
2006.1	37.5°	2055.5	1788.3	664.3	264.0	327.7	372.8	360.7	278.3	215.6	188.1
2165.5	40°	2178.7	1767.4	459.7	231.0	312.3	364.0	322.2	237.6	165.0	116.6
2411.9	42.5°	2329.4	1768.5	312.3	217.8	313.4	382.7	310.1	203.5	116.6	93.5
2740.7	45°	2531.8	1752.0	214.5	217.8	333.2	413.5	317.8	184.8	113.3	118.8
3153.2	47.5°	2749.5	1766.3	159.5	198.0	336.5	414.6	290.3	181.5	108.9	137.5
3601.9	50°	3003.6	1780.6	132.0	182.6	337.6	401.4	267.3	177.1	113.3	145.2
4116.6	52.5°	3265.3	1825.7	112.2	172.7	350.8	395.9	267.3	183.7	113.3	126.5
4772.1	55°	3655.8	1941.2	161.7	215.6	399.2	432.2	328.8	257.4	158.4	162.8
5400.1	57.5°	4086.9	2059.9	180.4	226.6	410.2	389.3	354.1	283.8	167.2	168.3
5888.4	60°	4370.6	2064.3	179.3	221.1	383.8	336.5	346.4	299.1	170.5	144.1
6190.8	62.5°	4483.9	1930.2	187.0	221.1	357.4	314.5	355.2	322.2	176.0	180.4
6276.6	65°	4355.2	1653.0	180.4	198.0	314.5	281.6	357.4	326.6	192.5	181.5
6122.6	67°	4154.0	1424.3	183.7	188.1	292.5	267.3	376.1	343.1	223.3	217.8
6042.4	67.5°	4096.8	1363.8	182.6	182.6	284.9	262.9	380.5	343.1	227.7	225.5
5333.0	70°	3610.7	1105.3	187.0	180.4	251.9	249.7	404.7	361.8	261.8	264.0
3917.5	72.5°	2748.4	838.1	185.9	180.4	218.9	238.7	408.0	373.9	284.9	264.0
2194.1	75°	1561.7	501.5	163.9	157.3	172.7	207.9	381.6	356.3	277.2	236.5
876.5	77.5°	645.6	258.5	150.7	141.9	143.0	169.4	317.8	332.1	264.0	201.3
292.5	80°	240.9	155.1	121.0	113.3	110.0	124.3	226.6	265.1	225.5	165.0
128.7	82.5°	125.4	96.8	82.5	82.5	74.8	79.2	122.1	176.0	170.5	113.3
51.7	85°	63.8	55.0	47.3	46.2	41.8	37.4	61.6	104.5	97.9	62.7
23.1	87.5°	34.1	30.8	19.8	18.7	15.4	9.9	11.0	20.9	34.1	27.5
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>
1459.4
1612.3
1666.2
1558.4
1369.3
1183.4
968.9
817.2
723.7
673.1
628.0
571.9
500.4
393.7
281.6
187.0
113.3
91.3
121.0
152.9
168.3
129.8
171.6
162.8
148.5
182.6
178.2
214.5
221.1
244.2
234.3
211.2
190.3
150.7
89.1
51.7
19.8
0.0

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