

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: P477762

Luminaire Tested: **IFLD-S-SA2B-740-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477762
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

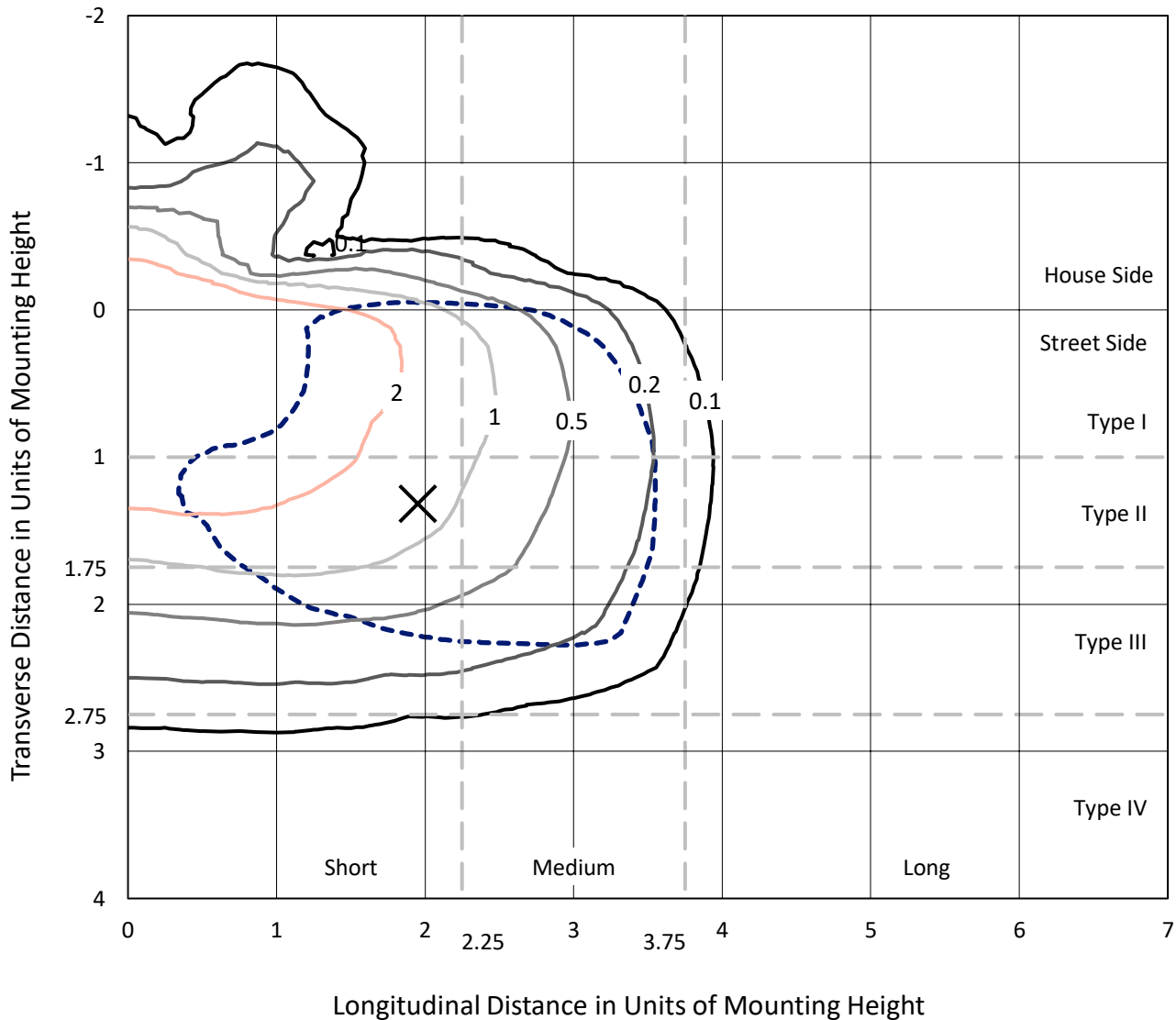
Lumens per Lamp: N/A
Luminaire Lumens: 11215.6 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

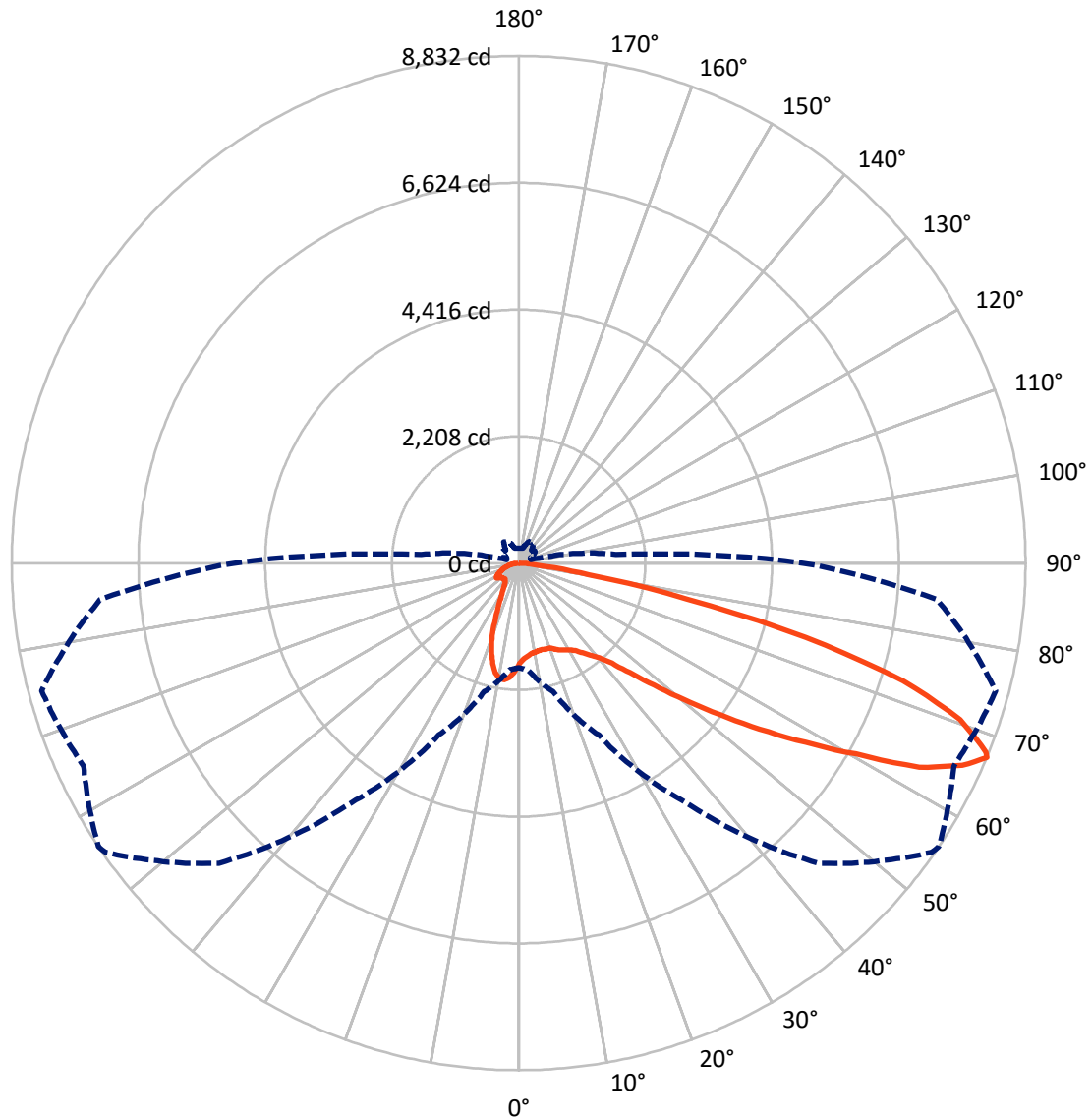
✕ Max cd
 - - - 1/2 Max cd



Based on 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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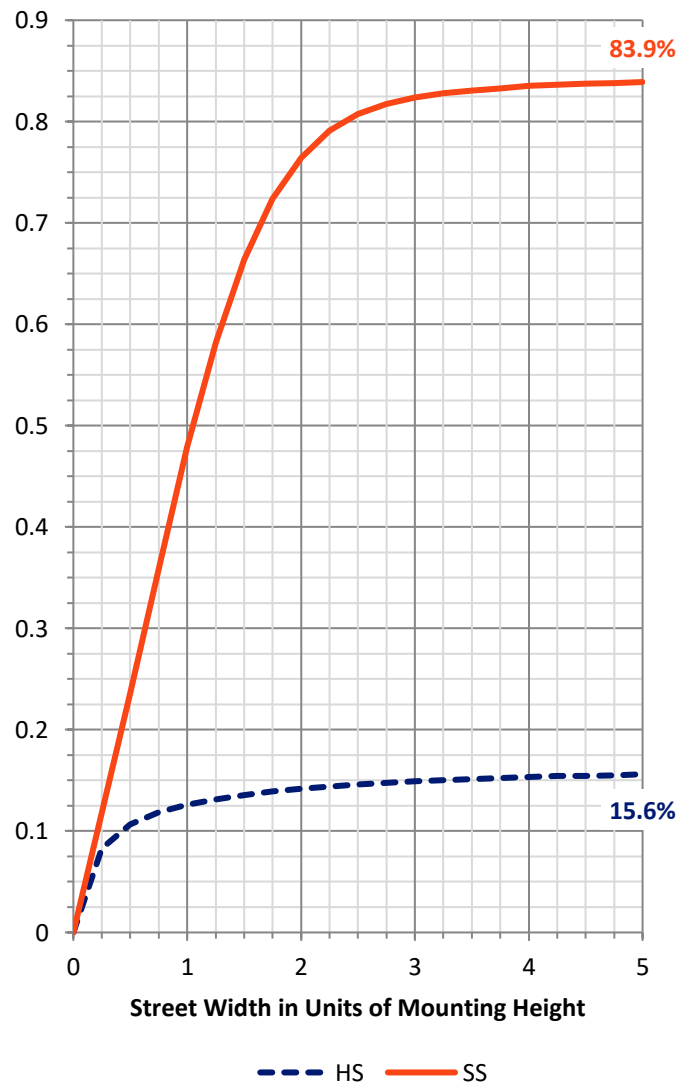
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1775.6	0.0	1775.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	9440.1	0.0	9440.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	11215.6	0.0	11215.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	1.5
10°-20°	458.7	4.1
20°-30°	719.3	6.4
30°-40°	1026.8	9.2
40°-50°	1549.8	13.8
50°-60°	2467.0	22.0
60°-70°	3153.8	28.1
70°-80°	1537.7	13.7
80°-90°	134.5	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°	11215.6	100.0
0°-180°	11215.6	100.0

Coefficient of Utilization

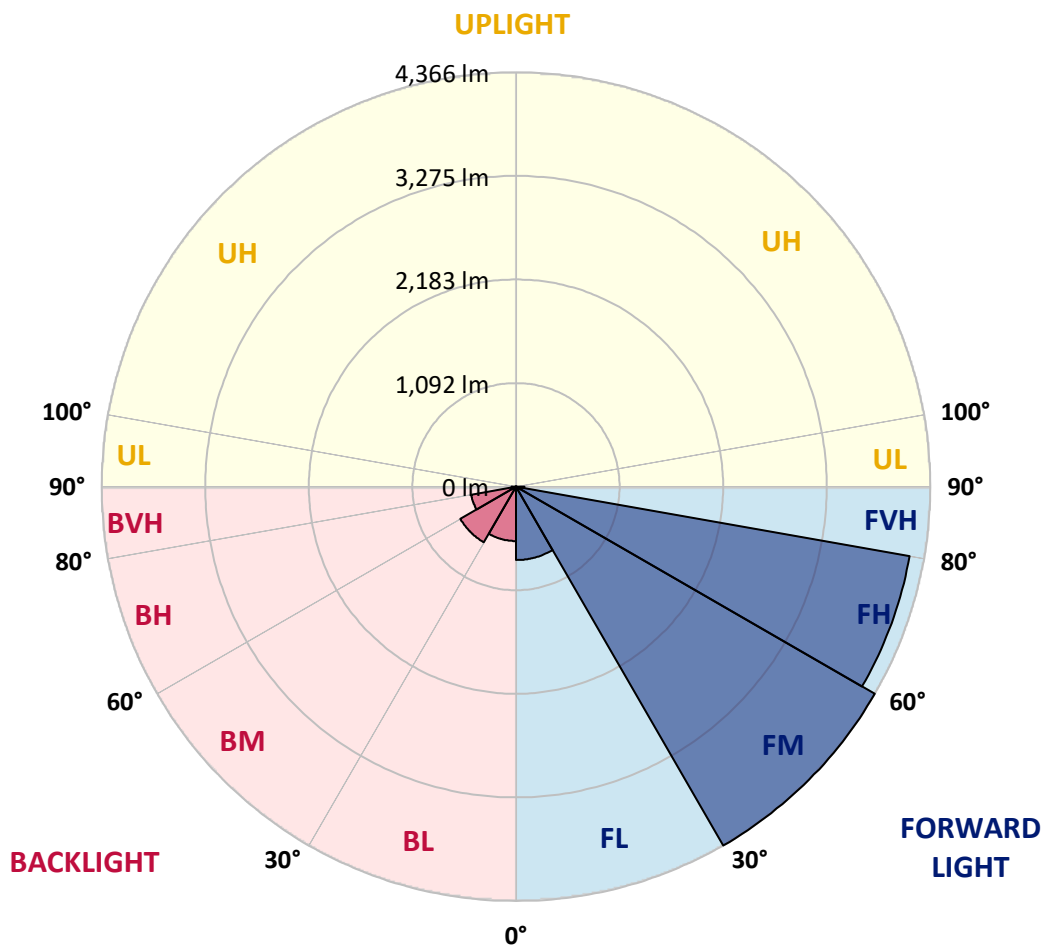


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.9	6.9			
FM (30°-60°)	4366.1	38.9			
FH (60°-80°)	4211.7	37.6			G2/5000
FVH (80°-90°)	89.3	0.8			G1/100
BL (0°-30°)	573.2	5.1	B2/1000		
BM (30°-60°)	677.4	6.0	B1/1000		
BH (60°-80°)	479.8	4.3	B1/500		G1/500
BVH (80°-90°)	45.2	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°	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1
2.5°	1603.1	1596.5	1604.4	1596.5	1632.0	1653.1	1659.6	1668.8	1701.7	1733.3
5°	1536.0	1507.1	1538.7	1549.2	1551.8	1587.3	1624.1	1630.7	1647.8	1699.1
7.5°	1424.2	1457.1	1445.3	1476.8	1509.7	1545.2	1605.7	1588.6	1651.8	1700.4
10°	1400.6	1403.2	1416.4	1428.2	1457.1	1503.1	1587.3	1576.8	1641.2	1745.1
12.5°	1424.2	1424.2	1420.3	1411.1	1444.0	1488.7	1555.8	1561.0	1662.3	1758.3
15°	1507.1	1522.9	1480.8	1487.4	1474.2	1488.7	1547.9	1559.7	1670.2	1768.8
17.5°	1709.6	1704.4	1654.4	1584.7	1526.8	1517.6	1558.4	1571.5	1662.3	1799.0
20°	1906.9	1896.4	1809.6	1737.2	1622.8	1568.9	1575.5	1576.8	1675.4	1818.8
22.5°	2126.5	2154.1	2059.4	1912.1	1770.1	1636.0	1609.7	1630.7	1705.7	1829.3
25°	2471.1	2411.9	2330.3	2137.0	1908.2	1739.9	1666.2	1676.7	1734.6	1855.6
27.5°	2719.6	2695.9	2568.4	2411.9	2101.5	1821.4	1696.5	1716.2	1787.2	1854.3
30°	2959.0	2959.0	2881.4	2647.3	2305.4	1958.2	1760.9	1751.7	1762.2	1851.6
32.5°	3239.1	3200.9	3089.1	2934.0	2561.8	2083.1	1812.2	1814.8	1814.8	1900.3
35°	3386.4	3448.2	3373.2	3120.7	2757.7	2290.9	1935.8	1916.1	1901.6	1954.2
37.5°	3602.0	3638.9	3559.9	3411.3	3001.0	2459.2	2045.0	2029.2	1945.0	1996.3
40°	3732.2	3725.6	3723.0	3654.6	3323.2	2657.8	2205.4	2164.6	2051.5	2144.9
42.5°	3805.9	3792.7	3954.5	3912.4	3627.0	2949.7	2406.6	2384.3	2259.3	2409.2
45°	3888.7	3986.0	4118.9	4237.2	3980.8	3360.1	2747.2	2715.7	2603.9	2794.6
47.5°	3961.0	4080.7	4250.4	4376.6	4300.3	3805.9	3168.1	3175.9	3102.3	3298.2
50°	4082.0	4093.9	4324.0	4579.1	4638.3	4217.5	3733.5	3720.4	3687.5	3962.4
52.5°	4045.2	4080.7	4371.4	4697.5	4794.8	4652.8	4341.1	4380.6	4337.2	4683.0
55°	3445.5	3552.1	4342.4	4822.4	5165.7	5144.6	5122.3	5096.0	5093.3	5493.1
57.5°	3173.3	3260.1	3825.6	4960.5	5562.8	5718.0	5862.7	5891.6	5890.3	6372.9
60°	2994.5	3083.9	3616.5	4885.6	5900.8	6468.9	6746.4	6750.4	6742.5	7313.2
62.5°	2644.6	2731.4	3254.8	4475.2	5994.2	7162.0	7780.1	7831.4	7469.7	8123.3
65°	2223.8	2294.8	2756.4	3848.0	5745.6	7602.5	8557.3	8496.8	8082.5	8586.2
67°	1818.8	1866.1	2315.9	3303.5	5096.0	7390.8	8782.2	8832.1	8365.3	8605.9
67.5°	1703.0	1746.4	2171.2	3118.1	4848.7	7230.4	8790.1	8782.2	8370.5	8609.9
70°	1182.3	1200.7	1479.5	2144.9	3571.8	6108.6	8148.3	8166.7	8019.4	8143.0
72.5°	783.8	811.4	988.9	1351.9	2105.5	4445.0	6810.8	7008.1	6914.7	6676.7
75°	505.0	520.8	647.0	804.8	1036.3	2531.5	5031.5	5163.0	4948.7	4129.4
77.5°	282.7	299.8	390.6	489.2	505.0	1053.4	2826.1	2989.2	2532.9	1754.3
80°	176.2	198.6	294.6	290.6	240.7	386.6	1165.2	1248.0	1012.6	603.6
82.5°	132.8	149.9	227.5	203.8	135.5	172.3	436.6	468.2	370.9	232.8
85°	90.7	114.4	164.4	126.2	71.0	82.9	173.6	186.7	169.6	113.1
87.5°	32.9	48.7	85.5	63.1	31.6	25.0	56.5	63.1	60.5	51.3
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°
1745.1	0°	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1
1760.9	2.5°	1785.9	1804.3	1813.5	1867.4	1889.8	1885.8	1891.1	1899.0	1906.9	1917.4
1783.3	5°	1800.4	1856.9	1887.2	1950.3	1992.4	1973.9	1997.6	1991.0	1981.8	1980.5
1824.0	7.5°	1847.7	1920.0	2010.8	2027.9	2046.3	2000.3	1960.8	1906.9	1893.7	1847.7
1858.2	10°	1931.9	1991.0	2101.5	2108.1	2026.6	1908.2	1820.1	1708.3	1707.0	1639.9
1910.8	12.5°	2012.1	2079.2	2168.6	2130.4	1935.8	1774.1	1630.7	1508.4	1457.1	1422.9
1942.4	15°	2062.1	2172.5	2219.9	2055.5	1776.7	1558.4	1373.0	1241.4	1188.8	1163.9
1981.8	17.5°	2108.1	2262.0	2240.9	1924.0	1580.7	1336.1	1115.2	1000.8	986.3	967.9
2045.0	20°	2171.2	2294.8	2166.0	1753.0	1358.5	1049.4	908.7	853.5	866.6	874.5
2051.5	22.5°	2230.4	2311.9	2071.3	1566.3	1073.1	831.1	761.4	773.3	793.0	819.3
2067.3	25°	2256.7	2339.5	1943.7	1308.5	816.7	699.6	683.8	703.6	736.5	737.8
2089.7	27.5°	2273.8	2319.8	1789.8	1057.3	645.7	611.5	635.2	649.7	653.6	669.4
2137.0	30°	2304.0	2279.1	1595.2	756.2	541.8	543.1	573.4	573.4	573.4	585.2
2184.4	32.5°	2356.6	2251.4	1367.7	552.3	466.9	508.9	501.0	498.4	493.2	478.7
2244.9	35°	2389.5	2176.5	1079.7	409.0	419.5	466.9	464.2	423.5	355.1	320.9
2398.7	37.5°	2457.9	2138.3	794.3	315.6	391.9	445.8	431.3	332.7	257.8	224.9
2589.4	40°	2605.2	2113.3	549.7	276.2	373.5	435.3	385.3	284.1	197.3	139.4
2884.0	42.5°	2785.4	2114.7	373.5	260.4	374.8	457.7	370.9	243.3	139.4	111.8
3277.2	45°	3027.3	2094.9	256.4	260.4	398.5	494.5	380.1	220.9	135.5	142.0
3770.4	47.5°	3287.7	2112.0	190.7	236.7	402.4	495.8	347.2	217.0	130.2	164.4
4306.9	50°	3591.5	2129.1	157.8	218.3	403.7	480.0	319.6	211.7	135.5	173.6
4922.4	52.5°	3904.5	2183.0	134.1	206.5	419.5	473.4	319.6	219.6	135.5	151.2
5706.2	55°	4371.4	2321.1	193.3	257.8	477.4	516.8	393.2	307.7	189.4	194.6
6457.1	57.5°	4886.9	2463.2	215.7	270.9	490.5	465.5	423.5	339.3	199.9	201.2
7041.0	60°	5226.2	2468.4	214.4	264.3	459.0	402.4	414.3	357.7	203.8	172.3
7402.6	62.5°	5361.6	2308.0	223.6	264.3	427.4	376.1	424.8	385.3	210.4	215.7
7505.2	65°	5207.8	1976.6	215.7	236.7	376.1	336.7	427.4	390.6	230.1	217.0
7321.1	67°	4967.1	1703.0	219.6	224.9	349.8	319.6	449.8	410.3	267.0	260.4
7225.1	67.5°	4898.7	1630.7	218.3	218.3	340.6	314.3	455.0	410.3	272.2	269.6
6376.9	70°	4317.4	1321.7	223.6	215.7	301.2	298.5	484.0	432.7	313.0	315.6
4684.3	72.5°	3286.4	1002.1	222.3	215.7	261.7	285.4	487.9	447.1	340.6	315.6
2623.6	75°	1867.4	599.7	195.9	188.1	206.5	248.6	456.3	426.1	331.4	282.7
1048.1	77.5°	772.0	309.0	180.2	169.6	171.0	202.5	380.1	397.2	315.6	240.7
349.8	80°	288.0	185.4	144.7	135.5	131.5	148.6	270.9	316.9	269.6	197.3
153.9	82.5°	149.9	115.7	98.6	98.6	89.4	94.7	146.0	210.4	203.8	135.5
61.8	85°	76.3	65.8	56.5	55.2	50.0	44.7	73.6	124.9	117.0	75.0
27.6	87.5°	40.8	36.8	23.7	22.4	18.4	11.8	13.2	25.0	40.8	32.9
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>
1745.1
1927.9
1992.4
1863.5
1637.3
1415.0
1158.6
977.1
865.3
804.8
750.9
683.8
598.4
470.8
336.7
223.6
135.5
109.2
144.7
182.8
201.2
155.2
205.2
194.6
177.5
218.3
213.0
256.4
264.3
291.9
280.1
252.5
227.5
180.2
106.5
61.8
23.7
0.0

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