

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: P477371

Luminaire Tested: **IFLD-S-SA2A-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477371
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

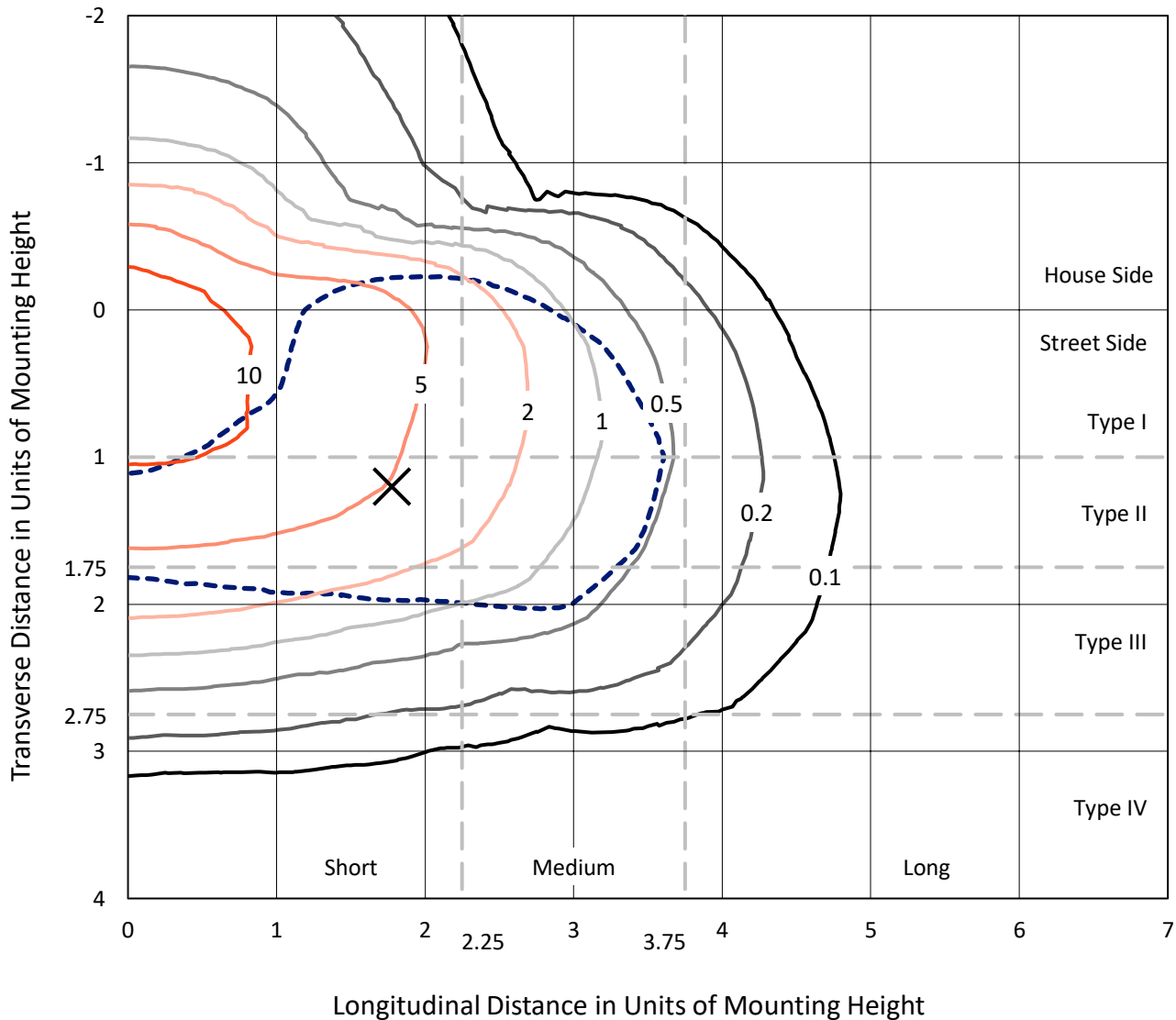
Lumens per Lamp: N/A
Luminaire Lumens: 9403.2 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
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

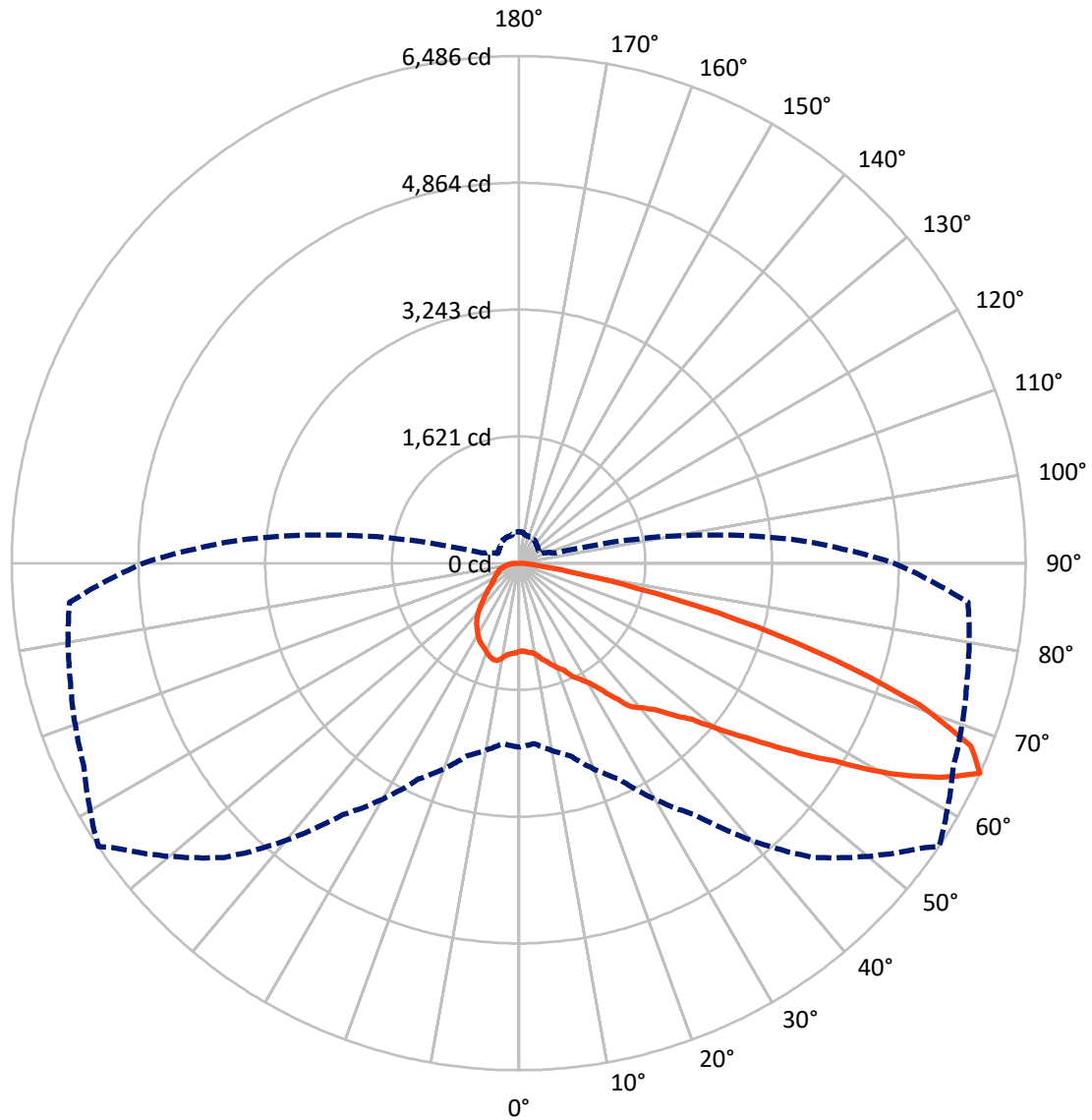
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 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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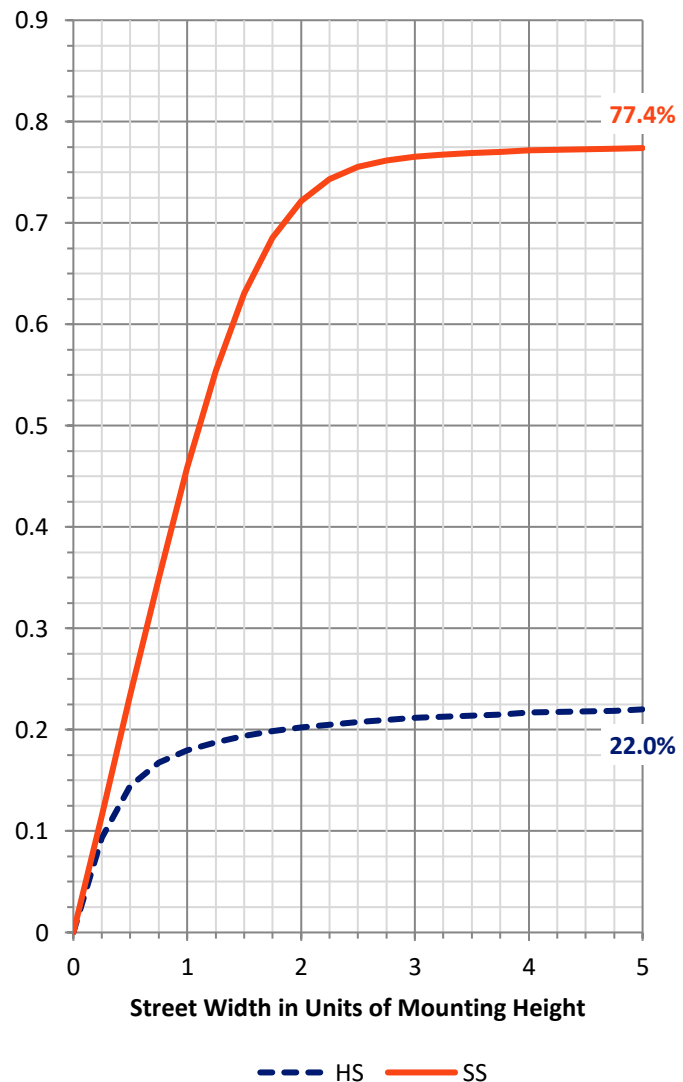
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2108.8	0.0	2108.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7294.4	0.0	7294.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	9403.2	0.0	9403.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	1.2
10°-20°	363.2	3.9
20°-30°	646.7	6.9
30°-40°	968.4	10.3
40°-50°	1434.7	15.3
50°-60°	2210.7	23.5
60°-70°	2502.8	26.6
70°-80°	1038.7	11.0
80°-90°	126.2	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°	9403.2	100.0
0°-180°	9403.2	100.0

Coefficient of Utilization

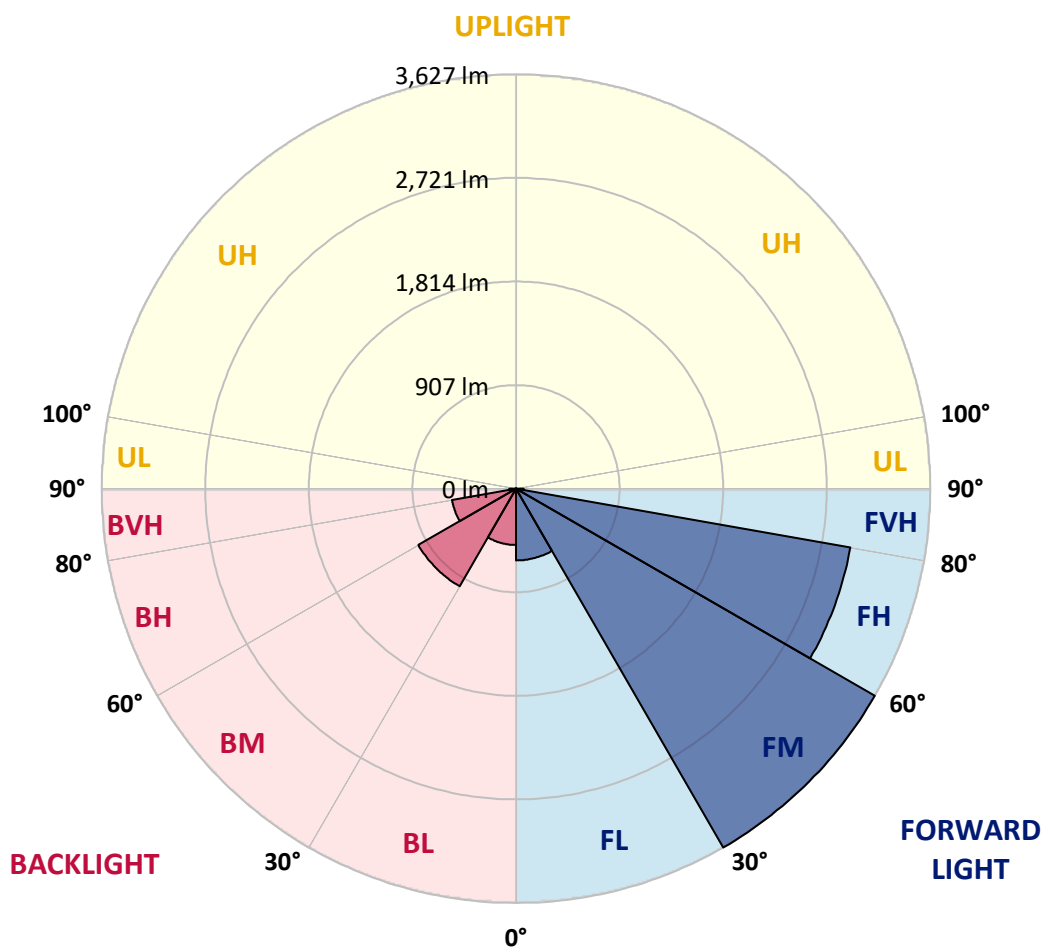


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.4	6.7			
FM (30°-60°)	3627.3	38.6			
FH (60°-80°)	2972.1	31.6			G2/5000
FVH (80°-90°)	66.6	0.7			G1/100
BL (0°-30°)	493.3	5.2	B1/500		
BM (30°-60°)	986.5	10.5	B1/1000		
BH (60°-80°)	569.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	59.6	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°	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1099.1	1105.0	1101.1	1112.9	1122.7	1122.7	1130.6	1124.7	1132.6	1143.4
5°	1135.5	1111.9	1124.7	1130.6	1127.7	1132.6	1124.7	1144.4	1131.6	1152.3
7.5°	1144.4	1153.3	1164.1	1154.2	1163.1	1158.2	1159.2	1156.2	1149.3	1166.0
10°	1209.3	1196.5	1221.1	1206.4	1204.4	1202.5	1198.5	1183.8	1200.5	1201.5
12.5°	1284.1	1272.3	1271.3	1259.5	1275.3	1246.7	1252.6	1244.8	1247.7	1251.7
15°	1338.2	1333.3	1356.0	1342.2	1321.5	1308.7	1322.5	1300.9	1311.7	1309.7
17.5°	1445.5	1444.5	1427.8	1405.2	1393.3	1374.7	1371.7	1362.8	1370.7	1366.8
20°	1520.3	1531.1	1534.1	1507.5	1462.2	1441.6	1436.6	1429.8	1438.6	1435.7
22.5°	1634.4	1617.7	1630.5	1584.2	1567.5	1518.3	1500.6	1490.8	1533.1	1522.3
25°	1707.2	1725.0	1712.2	1696.4	1659.0	1598.0	1585.2	1606.9	1623.6	1611.8
27.5°	1871.6	1853.9	1842.1	1794.8	1770.2	1706.3	1691.5	1683.6	1687.6	1694.5
30°	1996.5	2006.4	1979.8	1946.4	1884.4	1819.4	1785.0	1778.1	1764.3	1752.5
32.5°	2174.6	2159.9	2144.1	2122.5	2069.4	1983.8	1950.3	1924.7	1883.4	1828.3
35°	2260.3	2302.6	2290.8	2232.7	2192.4	2159.9	2150.0	2110.7	2076.2	1989.7
37.5°	2402.9	2420.7	2403.9	2385.2	2366.5	2332.1	2320.3	2331.1	2263.2	2120.5
40°	2495.4	2532.8	2567.3	2515.1	2511.2	2518.1	2445.3	2432.5	2292.7	2217.9
42.5°	2684.4	2700.1	2707.0	2705.0	2727.7	2727.7	2588.9	2561.4	2462.0	2401.0
45°	2934.3	2947.1	2971.7	2989.4	2963.8	2976.6	2778.8	2768.0	2679.4	2667.6
47.5°	3150.8	3181.3	3236.4	3288.5	3322.0	3278.7	3062.2	2985.5	2962.8	3033.7
50°	3339.7	3303.3	3432.2	3485.3	3632.0	3703.8	3375.1	3344.6	3308.2	3444.0
52.5°	3358.4	3407.6	3589.6	3695.9	3998.0	4130.8	3758.9	3746.1	3701.8	3858.3
55°	3492.2	3486.3	3669.4	3899.6	4258.8	4482.1	4258.8	4250.9	4154.5	4303.1
57.5°	3469.6	3529.6	3674.3	3996.0	4493.9	4859.0	4838.3	4784.2	4649.4	4770.5
60°	3392.8	3408.6	3584.7	3993.1	4630.7	5245.7	5464.2	5475.0	5199.5	5295.9
62.5°	2957.9	2994.3	3217.7	3679.2	4533.3	5512.4	6075.2	6036.9	5816.4	5706.2
65°	2352.8	2316.3	2548.6	3047.5	3927.2	5323.5	6342.9	6485.6	6139.2	5937.5
67.5°	1442.6	1433.7	1657.1	2096.9	2938.2	4530.4	6129.4	6240.6	6049.7	5888.3
70°	742.9	720.3	860.0	1170.0	1847.0	3324.0	5334.3	5443.5	5625.6	5281.2
72.5°	346.4	341.4	416.2	575.6	940.7	1954.2	4130.8	4209.6	4593.3	4452.6
75°	203.7	206.6	249.0	301.1	458.5	921.0	2741.4	2894.0	3310.2	3208.8
77.5°	152.5	152.5	177.1	209.6	267.6	356.2	1353.0	1554.7	1935.5	1740.7
80°	112.2	114.1	135.8	157.4	186.0	184.0	537.3	629.8	887.6	758.7
82.5°	87.6	90.5	105.3	117.1	130.9	111.2	220.4	237.1	365.1	290.3
85°	61.0	63.0	82.7	79.7	79.7	62.0	91.5	96.4	144.6	137.8
87.5°	14.8	16.7	40.3	44.3	33.5	18.7	28.5	32.5	52.2	60.0
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°
1128.7	0°	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7
1148.3	2.5°	1133.6	1137.5	1154.2	1145.4	1150.3	1129.6	1146.4	1132.6	1144.4	1138.5
1157.2	5°	1165.1	1156.2	1166.0	1159.2	1159.2	1167.0	1178.8	1170.0	1187.7	1179.8
1164.1	7.5°	1177.9	1178.8	1184.7	1185.7	1180.8	1205.4	1206.4	1203.4	1220.2	1216.2
1211.3	10°	1209.3	1210.3	1221.1	1227.1	1222.1	1231.0	1221.1	1213.3	1212.3	1208.4
1248.7	12.5°	1259.5	1269.4	1267.4	1272.3	1273.3	1235.9	1213.3	1174.9	1170.0	1174.9
1303.8	15°	1305.8	1301.8	1303.8	1313.6	1272.3	1212.3	1171.9	1139.5	1141.4	1142.4
1375.6	17.5°	1360.9	1363.8	1366.8	1321.5	1245.7	1174.9	1139.5	1139.5	1129.6	1133.6
1425.8	20°	1423.9	1412.0	1386.5	1322.5	1199.5	1131.6	1120.8	1120.8	1109.0	1101.1
1479.9	22.5°	1473.1	1449.4	1411.1	1292.0	1158.2	1114.9	1088.3	1069.6	1055.8	1040.1
1540.0	25°	1504.5	1491.8	1417.0	1260.5	1127.7	1070.6	1031.2	1002.7	985.0	964.3
1587.2	27.5°	1552.8	1528.2	1433.7	1224.1	1094.2	1026.3	965.3	921.0	887.6	865.9
1659.0	30°	1617.7	1582.3	1421.9	1171.9	1043.0	949.6	877.7	820.7	782.3	764.6
1726.9	32.5°	1670.8	1624.6	1412.0	1124.7	986.0	871.8	776.4	718.3	696.7	674.0
1841.1	35°	1772.2	1680.7	1405.2	1098.1	934.8	794.1	693.7	643.5	616.0	582.5
1909.0	37.5°	1849.9	1778.1	1388.4	1043.0	868.9	718.3	630.7	585.5	544.2	508.7
2066.4	40°	1971.9	1913.9	1389.4	965.3	791.1	653.4	581.5	534.3	482.2	451.7
2299.6	42.5°	2201.2	2047.7	1395.3	903.3	703.6	600.2	537.3	481.2	429.0	403.4
2565.3	45°	2482.6	2231.7	1358.9	847.2	614.0	550.1	484.1	428.0	394.6	375.9
2926.4	47.5°	2806.4	2411.8	1309.7	741.9	539.2	496.9	434.9	402.5	377.9	367.0
3391.9	50°	3168.5	2669.6	1295.9	645.5	481.2	451.7	411.3	386.7	370.0	357.2
3916.3	52.5°	3634.9	2969.7	1268.4	546.1	431.0	415.2	402.5	385.7	371.0	360.1
4405.4	55°	4080.7	3302.3	1238.9	464.4	395.6	397.5	404.4	389.7	376.9	360.1
4953.5	57.5°	4582.5	3641.8	1129.6	404.4	369.0	388.7	402.5	385.7	372.9	360.1
5514.4	60°	4892.5	3832.7	916.1	352.3	345.4	372.0	390.6	372.9	359.2	364.1
5772.2	62.5°	5018.4	3732.3	690.8	319.8	328.7	349.3	372.0	365.1	355.2	373.9
5769.2	65°	4803.9	3501.1	494.0	292.2	306.0	326.7	355.2	363.1	366.0	402.5
5298.9	67.5°	4274.5	3048.4	363.1	269.6	282.4	312.9	367.0	379.8	377.9	423.1
4446.7	70°	3420.4	2384.2	283.4	250.9	273.6	323.7	383.8	383.8	370.0	423.1
3391.9	72.5°	2488.5	1680.7	244.0	229.3	250.9	297.2	381.8	380.8	363.1	386.7
2159.9	75°	1506.5	978.1	215.5	207.6	215.5	254.9	365.1	359.2	334.6	332.6
1039.1	77.5°	750.8	492.0	176.1	184.0	187.9	213.5	320.8	329.6	296.2	288.3
410.3	80°	316.8	214.5	146.6	158.4	158.4	180.1	266.7	272.6	246.0	231.2
162.4	82.5°	144.6	123.0	125.0	137.8	128.9	139.7	211.6	218.4	199.8	175.2
68.9	85°	61.0	69.9	95.4	108.2	95.4	90.5	145.6	153.5	129.9	108.2
29.5	87.5°	27.6	38.4	60.0	78.7	48.2	42.3	77.7	80.7	64.9	48.2
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>
1128.7
1127.7
1169.0
1210.3
1208.4
1176.9
1156.2
1134.6
1089.3
1031.2
968.3
875.8
774.4
673.1
579.6
509.7
454.6
405.4
379.8
365.1
359.2
359.2
359.2
359.2
360.1
369.0
402.5
426.1
414.3
372.9
328.7
283.4
226.3
171.2
109.2
45.3
0.0

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