

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: P477410

Luminaire Tested: **IFLD-S-SA2A-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477410
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

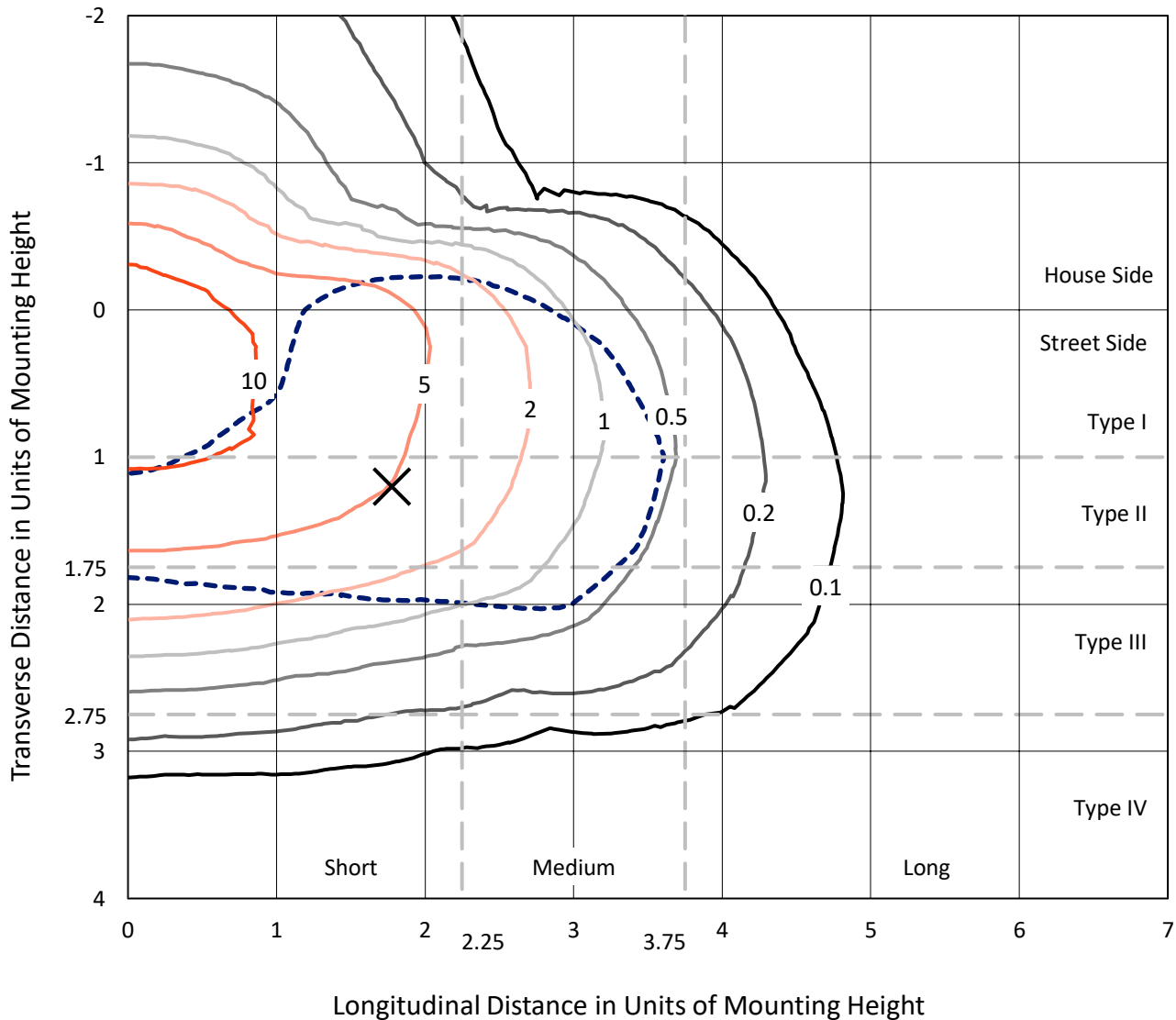
Lumens per Lamp: N/A
Luminaire Lumens: 9618.5 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

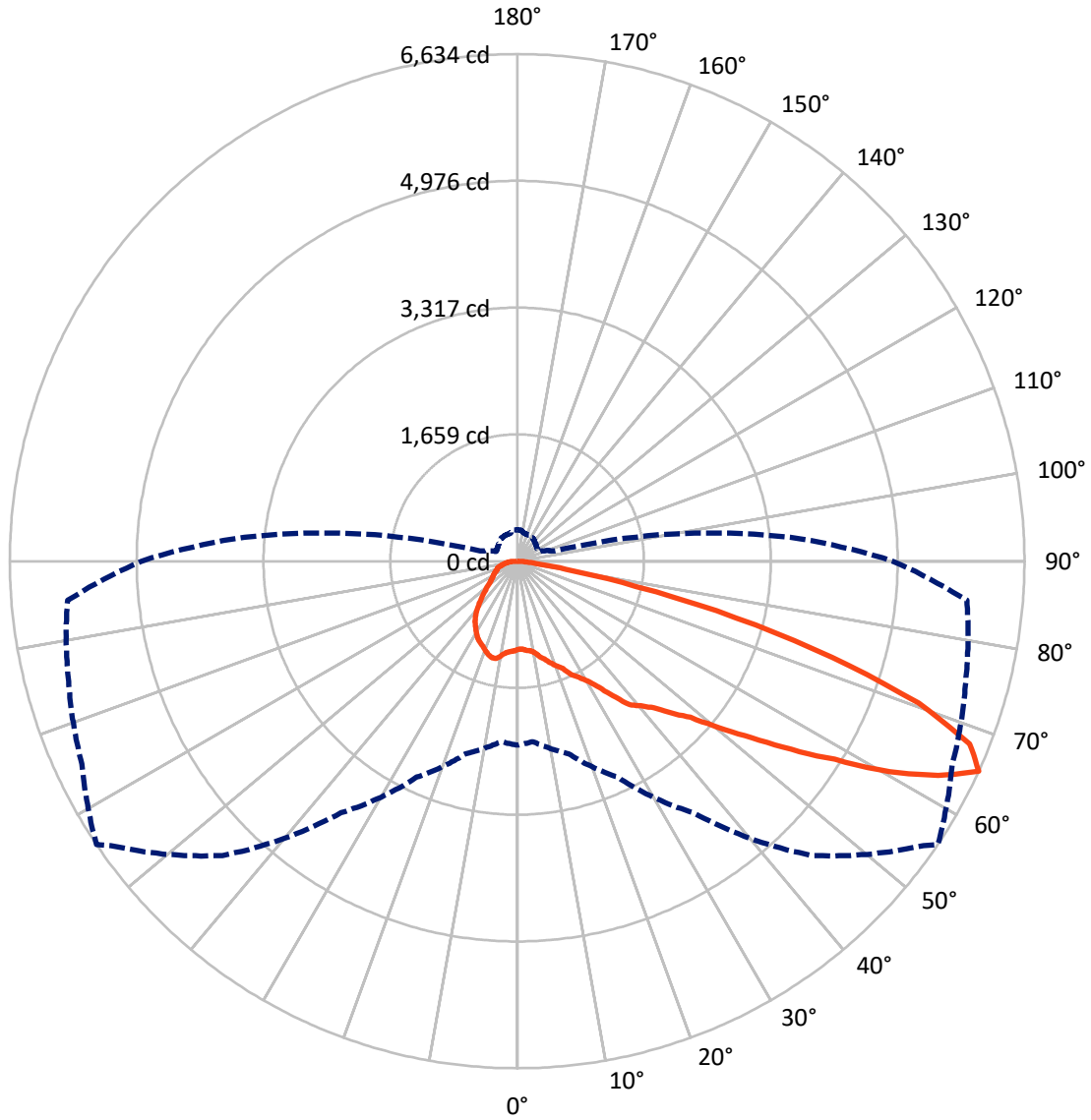
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 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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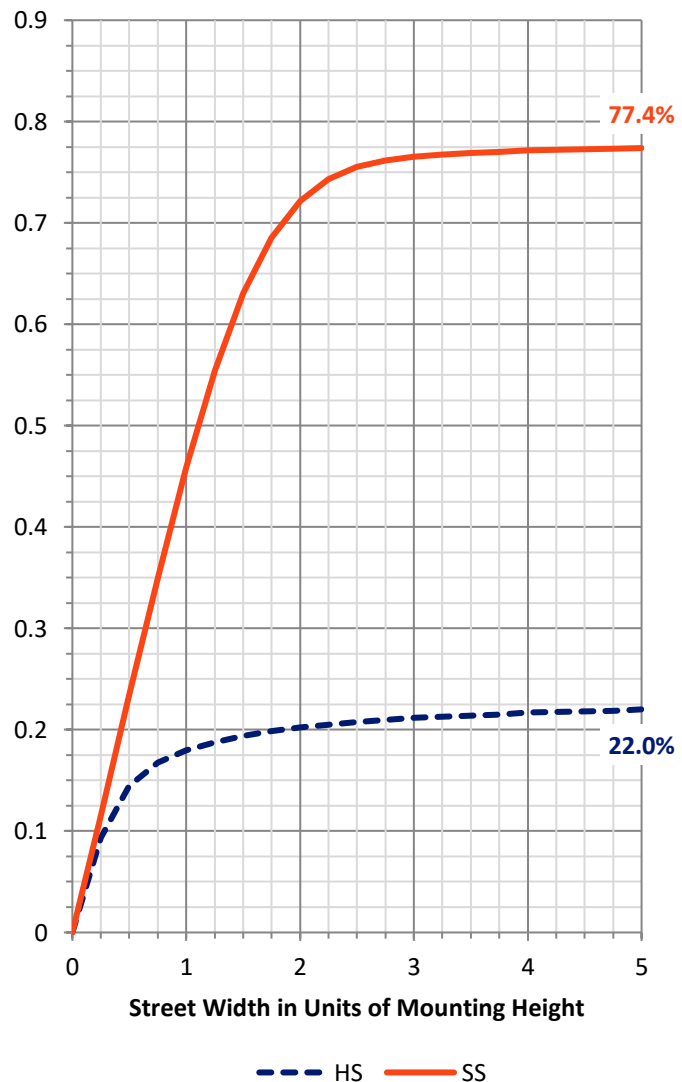
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2157.1	0.0	2157.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7461.4	0.0	7461.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	9618.5	0.0	9618.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.2
10°-20°	371.5	3.9
20°-30°	661.5	6.9
30°-40°	990.5	10.3
40°-50°	1467.6	15.3
50°-60°	2261.4	23.5
60°-70°	2560.1	26.6
70°-80°	1062.5	11.0
80°-90°	129.1	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°	9618.5	100.0
0°-180°	9618.5	100.0

Coefficient of Utilization

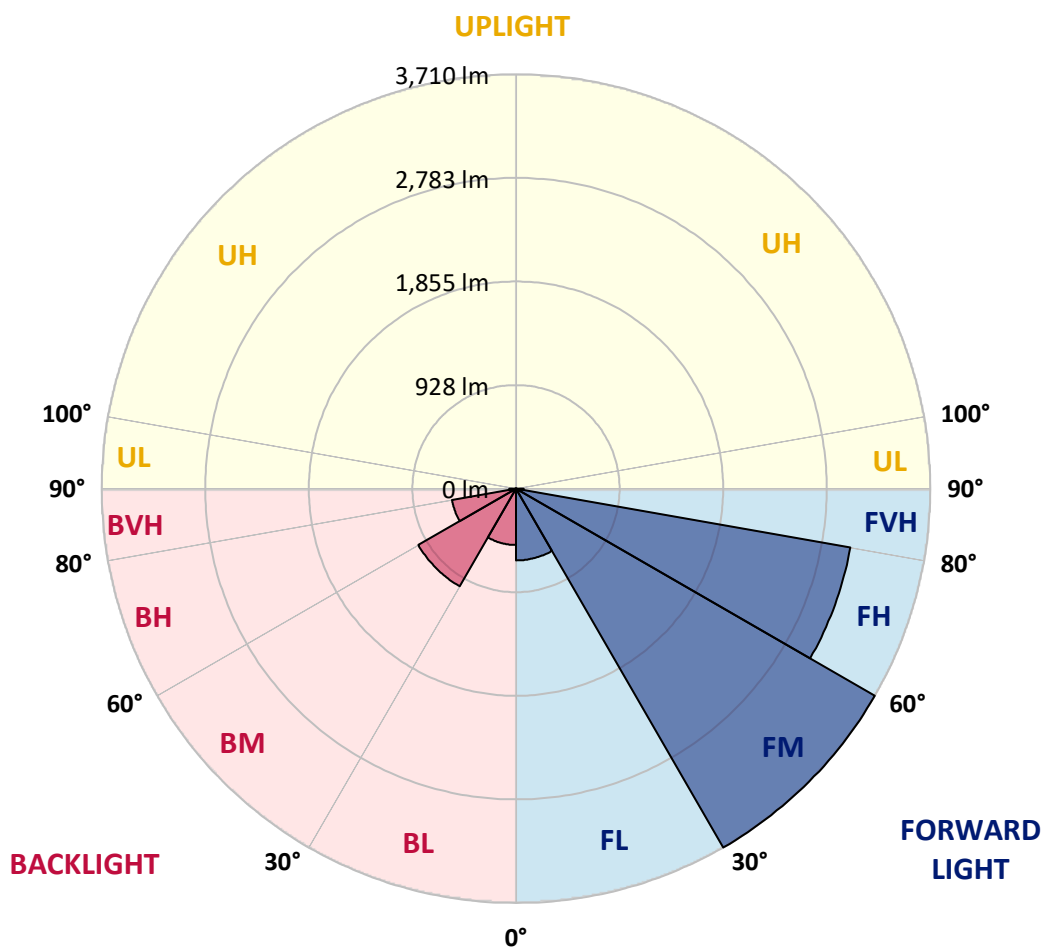


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	642.8	6.7			
FM (30°-60°)	3710.4	38.6			
FH (60°-80°)	3040.1	31.6			G2/5000
FVH (80°-90°)	68.1	0.7			G1/100
BL (0°-30°)	504.6	5.2	B2/1000		
BM (30°-60°)	1009.1	10.5	B2/2500		
BH (60°-80°)	582.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	61.0	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°	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5
2.5°	1124.3	1130.3	1126.3	1138.4	1148.5	1148.5	1156.5	1150.5	1158.5	1169.6
5°	1161.5	1137.4	1150.5	1156.5	1153.5	1158.5	1150.5	1170.6	1157.5	1178.7
7.5°	1170.6	1179.7	1190.7	1180.7	1189.7	1184.7	1185.7	1182.7	1175.6	1192.7
10°	1237.0	1224.0	1249.1	1234.0	1232.0	1230.0	1226.0	1210.9	1228.0	1229.0
12.5°	1313.5	1301.5	1300.4	1288.4	1304.5	1275.3	1281.3	1273.3	1276.3	1280.3
15°	1368.9	1363.9	1387.0	1372.9	1351.8	1338.7	1352.8	1330.6	1341.7	1339.7
17.5°	1478.6	1477.6	1460.5	1437.3	1425.3	1406.1	1403.1	1394.1	1402.1	1398.1
20°	1555.1	1566.2	1569.2	1542.0	1495.7	1474.6	1469.5	1462.5	1471.6	1468.5
22.5°	1671.9	1654.7	1667.8	1620.5	1603.4	1553.1	1535.0	1524.9	1568.2	1557.1
25°	1746.3	1764.5	1751.4	1735.3	1697.0	1634.6	1621.5	1643.7	1660.8	1648.7
27.5°	1914.4	1896.3	1884.2	1835.9	1810.8	1745.3	1730.2	1722.2	1726.2	1733.3
30°	2042.3	2052.3	2025.2	1990.9	1927.5	1861.1	1825.9	1818.8	1804.7	1792.6
32.5°	2224.4	2209.4	2193.2	2171.1	2116.7	2029.2	1995.0	1968.8	1926.5	1870.1
35°	2312.0	2355.3	2343.2	2283.8	2242.6	2209.4	2199.3	2159.0	2123.8	2035.2
37.5°	2458.0	2476.1	2459.0	2439.8	2420.7	2385.5	2373.4	2384.5	2315.0	2169.1
40°	2552.6	2590.8	2626.1	2572.7	2568.7	2575.7	2501.2	2488.2	2345.2	2268.7
42.5°	2745.8	2761.9	2769.0	2767.0	2790.1	2790.1	2648.2	2620.0	2518.4	2456.0
45°	3001.5	3014.6	3039.7	3057.9	3031.7	3044.8	2842.5	2831.4	2740.8	2728.7
47.5°	3222.9	3254.1	3310.5	3363.8	3398.1	3353.8	3132.3	3053.8	3030.7	3103.2
50°	3416.2	3378.9	3510.8	3565.2	3715.1	3788.6	3452.4	3421.2	3384.0	3522.9
52.5°	3435.3	3485.6	3671.9	3780.6	4089.6	4225.4	3845.0	3831.9	3786.6	3946.6
55°	3572.2	3566.2	3753.4	3988.9	4356.3	4584.8	4356.3	4348.2	4249.6	4401.6
57.5°	3549.1	3610.5	3758.4	4087.6	4596.9	4970.3	4949.1	4893.8	4755.9	4879.7
60°	3470.5	3486.6	3666.8	4084.5	4736.8	5365.9	5589.3	5600.4	5318.5	5417.2
62.5°	3025.7	3062.9	3291.4	3763.4	4637.1	5638.6	6214.4	6175.1	5949.6	5836.9
65°	2406.6	2369.4	2606.9	3117.2	4017.1	5445.4	6488.1	6634.1	6279.8	6073.4
67.5°	1475.6	1466.5	1695.0	2144.9	3005.5	4634.1	6269.7	6383.5	6188.2	6023.1
70°	759.9	736.8	879.7	1196.8	1889.3	3400.1	5456.4	5568.2	5754.4	5402.1
72.5°	354.3	349.3	425.8	588.8	962.3	1999.0	4225.4	4306.0	4698.5	4554.6
75°	208.4	211.4	254.7	308.0	469.0	942.1	2804.2	2960.2	3386.0	3282.3
77.5°	156.0	156.0	181.2	214.4	273.8	364.4	1384.0	1590.3	1979.9	1780.6
80°	114.7	116.8	138.9	161.0	190.2	188.2	549.6	644.2	907.9	776.0
82.5°	89.6	92.6	107.7	119.8	133.9	113.7	225.5	242.6	373.4	296.9
85°	62.4	64.4	84.5	81.5	81.5	63.4	93.6	98.6	148.0	140.9
87.5°	15.1	17.1	41.3	45.3	34.2	19.1	29.2	33.2	53.3	61.4
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°
1154.5	0°	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5	1154.5
1174.6	2.5°	1159.5	1163.6	1180.7	1171.6	1176.6	1155.5	1172.6	1158.5	1170.6	1164.6
1183.7	5°	1191.7	1182.7	1192.7	1185.7	1185.7	1193.8	1205.8	1196.8	1214.9	1206.8
1190.7	7.5°	1204.8	1205.8	1211.9	1212.9	1207.8	1233.0	1234.0	1231.0	1248.1	1244.1
1239.0	10°	1237.0	1238.0	1249.1	1255.2	1250.1	1259.2	1249.1	1241.1	1240.1	1236.0
1277.3	12.5°	1288.4	1298.4	1296.4	1301.5	1302.5	1264.2	1241.1	1201.8	1196.8	1201.8
1333.7	15°	1335.7	1331.6	1333.7	1343.7	1301.5	1240.1	1198.8	1165.6	1167.6	1168.6
1407.1	17.5°	1392.0	1395.1	1398.1	1351.8	1274.3	1201.8	1165.6	1165.6	1155.5	1159.5
1458.5	20°	1456.5	1444.4	1418.2	1352.8	1227.0	1157.5	1146.4	1146.4	1134.4	1126.3
1513.8	22.5°	1506.8	1482.6	1443.4	1321.6	1184.7	1140.4	1113.2	1094.1	1080.0	1063.9
1575.2	25°	1539.0	1525.9	1449.4	1289.4	1153.5	1095.1	1054.9	1025.7	1007.5	986.4
1623.5	27.5°	1588.3	1563.2	1466.5	1252.1	1119.3	1049.8	987.4	942.1	907.9	885.8
1697.0	30°	1654.7	1618.5	1454.4	1198.8	1066.9	971.3	897.8	839.5	800.2	782.1
1766.5	32.5°	1709.1	1661.8	1444.4	1150.5	1008.6	891.8	794.2	734.8	712.6	689.5
1883.2	35°	1812.8	1719.2	1437.3	1123.3	956.2	812.3	709.6	658.3	630.1	595.9
1952.7	37.5°	1892.3	1818.8	1420.2	1066.9	888.8	734.8	645.2	598.9	556.6	520.4
2113.7	40°	2017.1	1957.7	1421.2	987.4	809.3	668.3	594.9	546.6	493.2	462.0
2352.3	42.5°	2251.6	2094.6	1427.3	924.0	719.7	614.0	549.6	492.2	438.9	412.7
2624.0	45°	2539.5	2282.8	1390.0	866.6	628.1	562.7	495.2	437.8	403.6	384.5
2993.4	47.5°	2870.6	2467.0	1339.7	758.9	551.6	508.3	444.9	411.7	386.5	375.4
3469.5	50°	3241.1	2730.7	1325.6	660.3	492.2	462.0	420.7	395.6	378.5	365.4
4006.0	52.5°	3718.2	3037.7	1297.4	558.6	440.9	424.8	411.7	394.6	379.5	368.4
4506.3	55°	4174.1	3377.9	1267.2	475.1	404.6	406.6	413.7	398.6	385.5	368.4
5066.9	57.5°	4687.4	3725.2	1155.5	413.7	377.5	397.6	411.7	394.6	381.5	368.4
5640.6	60°	5004.5	3920.5	937.1	360.3	353.3	380.5	399.6	381.5	367.4	372.4
5904.4	62.5°	5133.3	3817.8	706.6	327.1	336.2	357.3	380.5	373.4	363.4	382.5
5901.3	65°	4913.9	3581.3	505.3	298.9	313.0	334.2	363.4	371.4	374.4	411.7
5420.2	67.5°	4372.4	3118.3	371.4	275.8	288.9	320.1	375.4	388.5	386.5	432.8
4548.5	70°	3498.7	2438.8	289.9	256.7	279.8	331.2	392.5	392.5	378.5	432.8
3469.5	72.5°	2545.5	1719.2	249.6	234.5	256.7	304.0	390.5	389.5	371.4	395.6
2209.4	75°	1541.0	1000.5	220.4	212.4	220.4	260.7	373.4	367.4	342.2	340.2
1062.9	77.5°	768.0	503.3	180.2	188.2	192.2	218.4	328.1	337.2	303.0	294.9
419.7	80°	324.1	219.4	150.0	162.1	162.1	184.2	272.8	278.8	251.6	236.5
166.1	82.5°	148.0	125.8	127.8	140.9	131.9	142.9	216.4	223.5	204.3	179.2
70.5	85°	62.4	71.5	97.6	110.7	97.6	92.6	149.0	157.0	132.9	110.7
30.2	87.5°	28.2	39.3	61.4	80.5	49.3	43.3	79.5	82.5	66.4	49.3
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>
1154.5
1153.5
1195.8
1238.0
1236.0
1203.8
1182.7
1160.5
1114.2
1054.9
990.4
895.8
792.1
688.5
592.9
521.4
465.0
414.7
388.5
373.4
367.4
367.4
367.4
367.4
368.4
377.5
411.7
435.8
423.8
381.5
336.2
289.9
231.5
175.1
111.7
46.3
0.0

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