

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: P477332

Luminaire Tested: **IFLD-S-SA2A-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477332
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

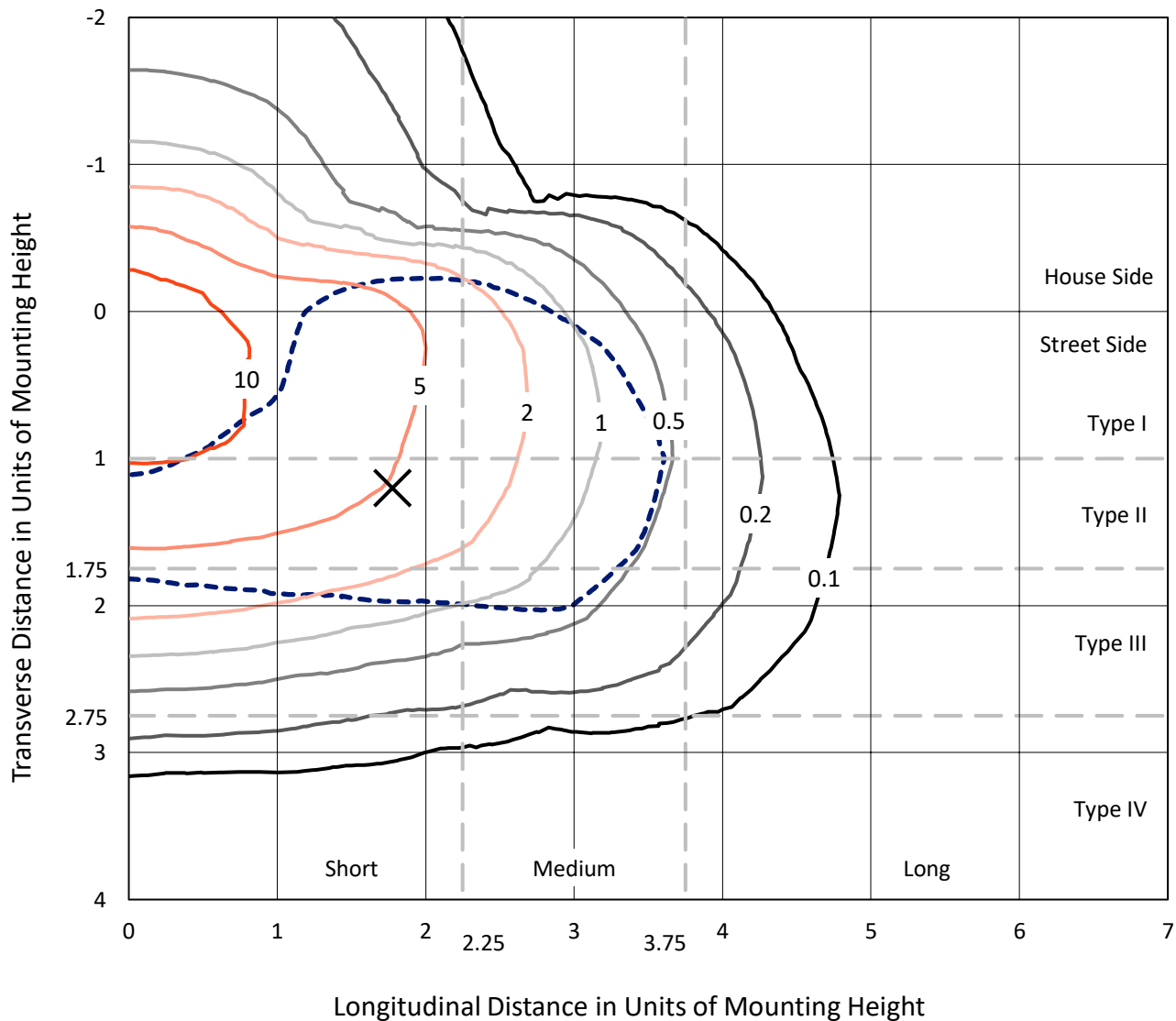
Lumens per Lamp: N/A
Luminaire Lumens: 9274.4 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

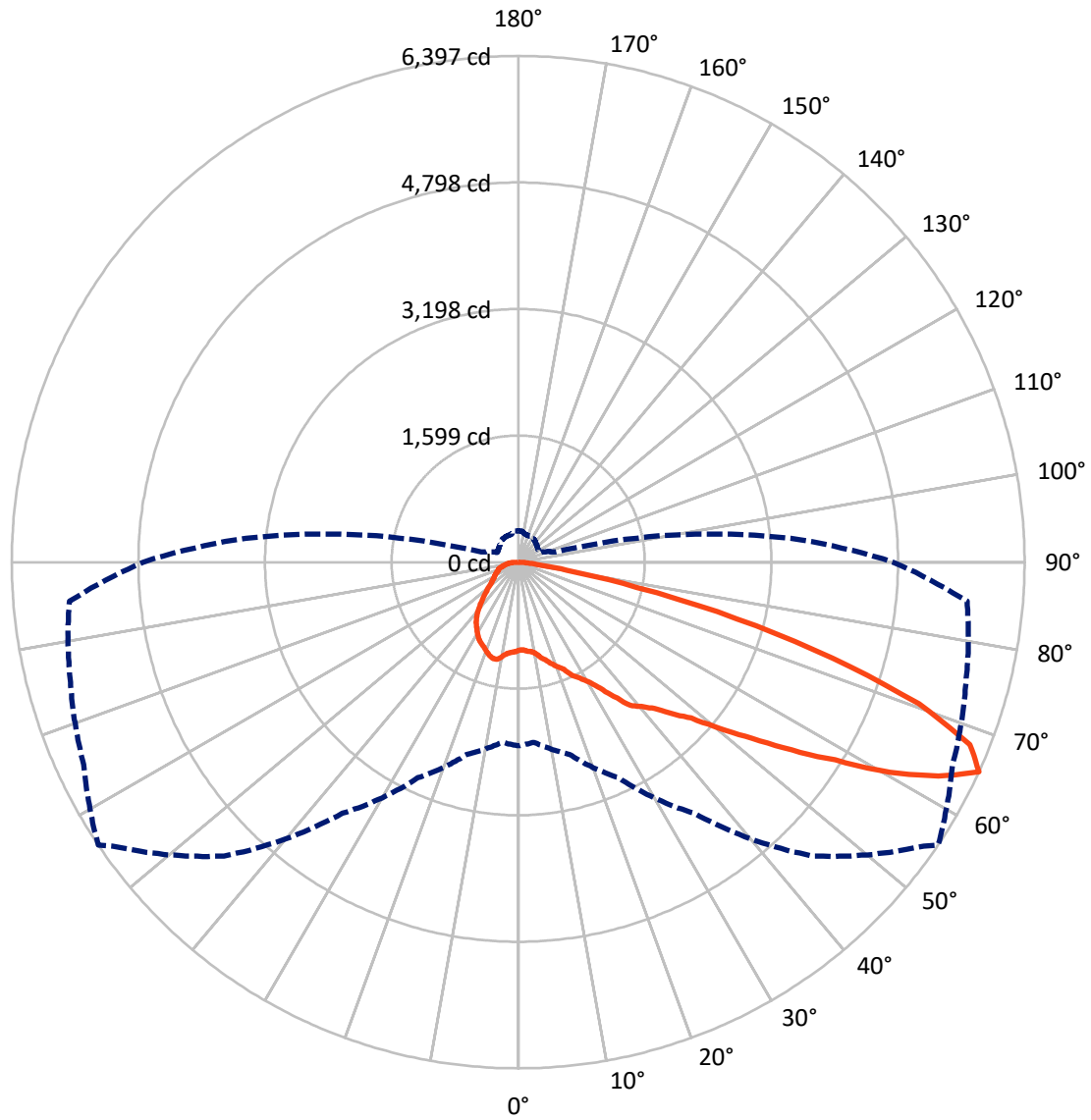
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 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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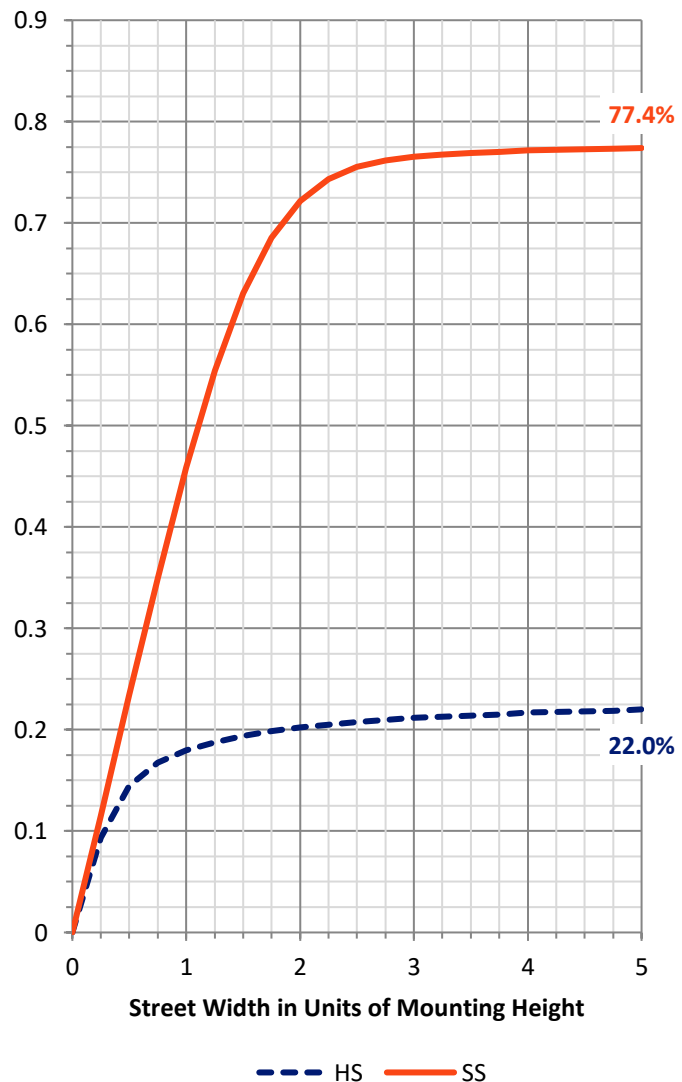
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2079.9	0.0	2079.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7194.4	0.0	7194.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	9274.4	0.0	9274.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	1.2
10°-20°	358.2	3.9
20°-30°	637.8	6.9
30°-40°	955.1	10.3
40°-50°	1415.1	15.3
50°-60°	2180.4	23.5
60°-70°	2468.5	26.6
70°-80°	1024.5	11.0
80°-90°	124.5	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°	9274.4	100.0
0°-180°	9274.4	100.0

Coefficient of Utilization

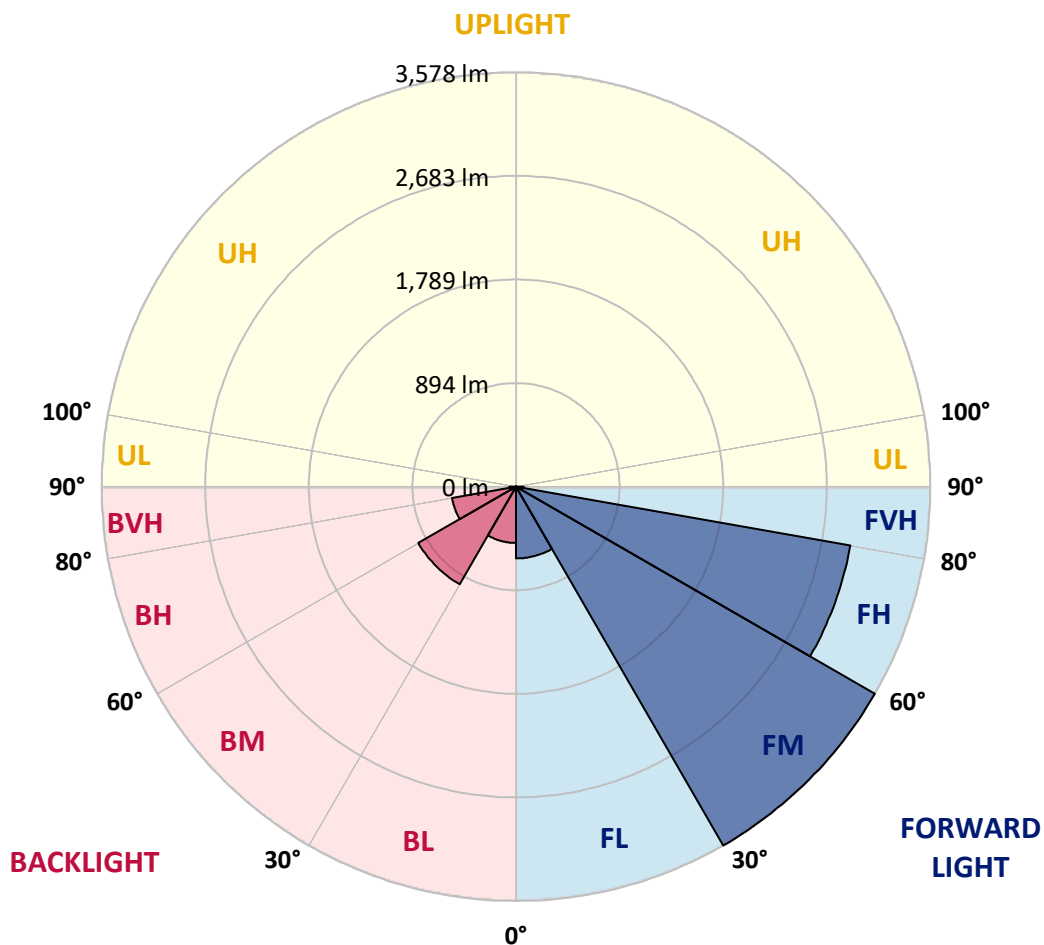


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.8	6.7			
FM (30°-60°)	3577.6	38.6			
FH (60°-80°)	2931.3	31.6			G2/5000
FVH (80°-90°)	65.6	0.7			G1/100
BL (0°-30°)	486.5	5.2	B1/500		
BM (30°-60°)	973.0	10.5	B1/1000		
BH (60°-80°)	561.7	6.1	B2/1000		G2/1000
BVH (80°-90°)	58.8	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°	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2
2.5°	1084.1	1089.9	1086.0	1097.7	1107.4	1107.4	1115.1	1109.3	1117.1	1127.7
5°	1120.0	1096.7	1109.3	1115.1	1112.2	1117.1	1109.3	1128.7	1116.1	1136.5
7.5°	1128.7	1137.5	1148.1	1138.4	1147.2	1142.3	1143.3	1140.4	1133.6	1150.1
10°	1192.8	1180.2	1204.4	1189.9	1187.9	1186.0	1182.1	1167.5	1184.0	1185.0
12.5°	1266.5	1254.9	1253.9	1242.3	1257.8	1229.7	1235.5	1227.7	1230.6	1234.5
15°	1319.9	1315.1	1337.4	1323.8	1303.4	1290.8	1304.4	1283.0	1293.7	1291.8
17.5°	1425.7	1424.7	1408.2	1385.9	1374.3	1355.8	1352.9	1344.2	1351.9	1348.1
20°	1499.5	1510.1	1513.0	1486.8	1442.2	1421.8	1417.0	1410.2	1418.9	1416.0
22.5°	1612.0	1595.5	1608.2	1562.5	1546.0	1497.5	1480.0	1470.3	1512.1	1501.4
25°	1683.9	1701.3	1688.7	1673.2	1636.3	1576.1	1563.5	1584.9	1601.4	1589.7
27.5°	1845.9	1828.5	1816.8	1770.2	1746.0	1682.9	1668.3	1660.6	1664.4	1671.2
30°	1969.2	1978.9	1952.7	1919.7	1858.6	1794.5	1760.5	1753.7	1740.1	1728.5
32.5°	2144.9	2130.3	2114.8	2093.4	2041.0	1956.6	1923.6	1898.3	1857.6	1803.2
35°	2229.3	2271.0	2259.4	2202.1	2162.3	2130.3	2120.6	2081.8	2047.8	1962.4
37.5°	2370.0	2387.5	2371.0	2352.5	2334.1	2300.1	2288.5	2299.2	2232.2	2091.5
40°	2461.2	2498.1	2532.1	2480.7	2476.8	2483.6	2411.8	2399.1	2261.3	2187.6
42.5°	2647.6	2663.1	2669.9	2668.0	2690.3	2690.3	2553.4	2526.3	2428.2	2368.1
45°	2894.1	2906.7	2931.0	2948.4	2923.2	2935.8	2740.8	2730.1	2642.7	2631.1
47.5°	3107.6	3137.7	3192.1	3243.5	3276.5	3233.8	3020.3	2944.6	2922.2	2992.1
50°	3294.0	3258.0	3385.2	3437.6	3582.2	3653.0	3328.9	3298.8	3262.9	3396.8
52.5°	3312.4	3360.9	3540.5	3645.3	3943.2	4074.3	3707.4	3694.8	3651.1	3805.4
55°	3444.4	3438.6	3619.1	3846.2	4200.4	4420.7	4200.4	4192.7	4097.5	4244.1
57.5°	3422.1	3481.3	3623.9	3941.3	4432.4	4792.4	4772.1	4718.7	4585.7	4705.1
60°	3346.4	3361.9	3535.6	3938.4	4567.3	5173.9	5389.3	5400.0	5128.2	5223.4
62.5°	2917.4	2953.3	3173.6	3628.8	4471.2	5436.9	5992.0	5954.2	5736.8	5628.1
65°	2320.5	2284.6	2513.7	3005.7	3873.4	5250.5	6256.0	6396.7	6055.1	5856.1
67.5°	1422.8	1414.1	1634.4	2068.2	2898.0	4468.3	6045.4	6155.1	5966.8	5807.6
70°	732.7	710.4	848.2	1154.0	1821.7	3278.4	5261.2	5368.9	5548.5	5208.8
72.5°	341.6	336.8	410.5	567.8	927.8	1927.5	4074.3	4151.9	4530.4	4391.6
75°	200.9	203.8	245.5	297.0	452.3	908.4	2703.9	2854.3	3264.8	3164.9
77.5°	150.4	150.4	174.7	206.7	264.0	351.3	1334.5	1533.4	1909.0	1716.9
80°	110.6	112.6	133.9	155.3	183.4	181.5	529.9	621.1	875.4	748.3
82.5°	86.4	89.3	103.8	115.5	129.1	109.7	217.4	233.9	360.1	286.3
85°	60.2	62.1	81.5	78.6	78.6	61.1	90.3	95.1	142.7	135.9
87.5°	14.6	16.5	39.8	43.7	33.0	18.4	28.1	32.0	51.4	59.2
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°
1113.2	0°	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2	1113.2
1132.6	2.5°	1118.0	1121.9	1138.4	1129.7	1134.5	1114.2	1130.7	1117.1	1128.7	1122.9
1141.3	5°	1149.1	1140.4	1150.1	1143.3	1143.3	1151.0	1162.7	1154.0	1171.4	1163.7
1148.1	7.5°	1161.7	1162.7	1168.5	1169.5	1164.6	1188.9	1189.9	1186.9	1203.4	1199.6
1194.7	10°	1192.8	1193.7	1204.4	1210.2	1205.4	1214.1	1204.4	1196.7	1195.7	1191.8
1231.6	12.5°	1242.3	1252.0	1250.0	1254.9	1255.9	1219.0	1196.7	1158.8	1154.0	1158.8
1285.9	15°	1287.9	1284.0	1285.9	1295.6	1254.9	1195.7	1155.9	1123.9	1125.8	1126.8
1356.8	17.5°	1342.2	1345.1	1348.1	1303.4	1228.7	1158.8	1123.9	1123.9	1114.2	1118.0
1406.3	20°	1404.3	1392.7	1367.5	1304.4	1183.1	1116.1	1105.4	1105.4	1093.8	1086.0
1459.7	22.5°	1452.9	1429.6	1391.7	1274.3	1142.3	1099.6	1073.4	1055.0	1041.4	1025.8
1518.9	25°	1483.9	1471.3	1397.6	1243.2	1112.2	1055.9	1017.1	989.0	971.5	951.1
1565.5	27.5°	1531.5	1507.2	1414.1	1207.3	1079.2	1012.3	952.1	908.4	875.4	854.1
1636.3	30°	1595.5	1560.6	1402.4	1155.9	1028.8	936.6	865.7	809.4	771.6	754.1
1703.3	32.5°	1647.9	1602.3	1392.7	1109.3	972.5	859.9	765.7	708.5	687.1	664.8
1815.8	35°	1747.9	1657.7	1385.9	1083.1	922.0	783.2	684.2	634.7	607.5	574.5
1882.8	37.5°	1824.6	1753.7	1369.4	1028.8	857.0	708.5	622.1	577.5	536.7	501.8
2038.1	40°	1944.9	1887.7	1370.4	952.1	780.3	644.4	573.6	527.0	475.6	445.5
2268.1	42.5°	2171.1	2019.7	1376.2	890.9	693.9	592.0	529.9	474.6	423.1	397.9
2530.2	45°	2448.6	2201.1	1340.3	835.6	605.6	542.5	477.5	422.2	389.2	370.7
2886.3	47.5°	2767.9	2378.8	1291.8	731.8	531.8	490.1	429.0	396.9	372.7	362.0
3345.4	50°	3125.1	2633.0	1278.2	636.7	474.6	445.5	405.7	381.4	364.9	352.3
3862.7	52.5°	3585.1	2929.0	1251.0	538.6	425.1	409.6	396.9	380.4	365.9	355.2
4345.0	55°	4024.8	3257.1	1221.9	458.1	390.2	392.1	398.9	384.3	371.7	355.2
4885.6	57.5°	4519.7	3591.9	1114.2	398.9	363.9	383.4	396.9	380.4	367.8	355.2
5438.8	60°	4825.4	3780.2	903.6	347.4	340.7	366.9	385.3	367.8	354.2	359.1
5693.1	62.5°	4949.7	3681.2	681.3	315.4	324.2	344.5	366.9	360.1	350.4	368.8
5690.2	65°	4738.1	3453.1	487.2	288.2	301.8	322.2	350.4	358.1	361.0	396.9
5226.3	67.5°	4216.0	3006.7	358.1	265.9	278.5	308.6	362.0	374.6	372.7	417.3
4385.8	70°	3373.5	2351.6	279.5	247.5	269.8	319.3	378.5	378.5	364.9	417.3
3345.4	72.5°	2454.5	1657.7	240.7	226.1	247.5	293.1	376.6	375.6	358.1	381.4
2130.3	75°	1485.9	964.7	212.5	204.8	212.5	251.4	360.1	354.2	330.0	328.0
1024.9	77.5°	740.5	485.3	173.7	181.5	185.4	210.6	316.4	325.1	292.1	284.4
404.7	80°	312.5	211.6	144.6	156.3	156.3	177.6	263.0	268.8	242.6	228.1
160.1	82.5°	142.7	121.3	123.3	135.9	127.1	137.8	208.7	215.5	197.0	172.8
67.9	85°	60.2	68.9	94.1	106.8	94.1	89.3	143.6	151.4	128.1	106.8
29.1	87.5°	27.2	37.9	59.2	77.6	47.6	41.7	76.7	79.6	64.1	47.6
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>
1113.2
1112.2
1153.0
1193.7
1191.8
1160.7
1140.4
1119.0
1074.4
1017.1
955.0
863.8
763.8
663.8
571.6
502.7
448.4
399.9
374.6
360.1
354.2
354.2
354.2
354.2
355.2
363.9
396.9
420.2
408.6
367.8
324.2
279.5
223.2
168.9
107.7
44.6
0.0

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