

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: P477644

Luminaire Tested: **IFLD-S-SA2A-727-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477644
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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

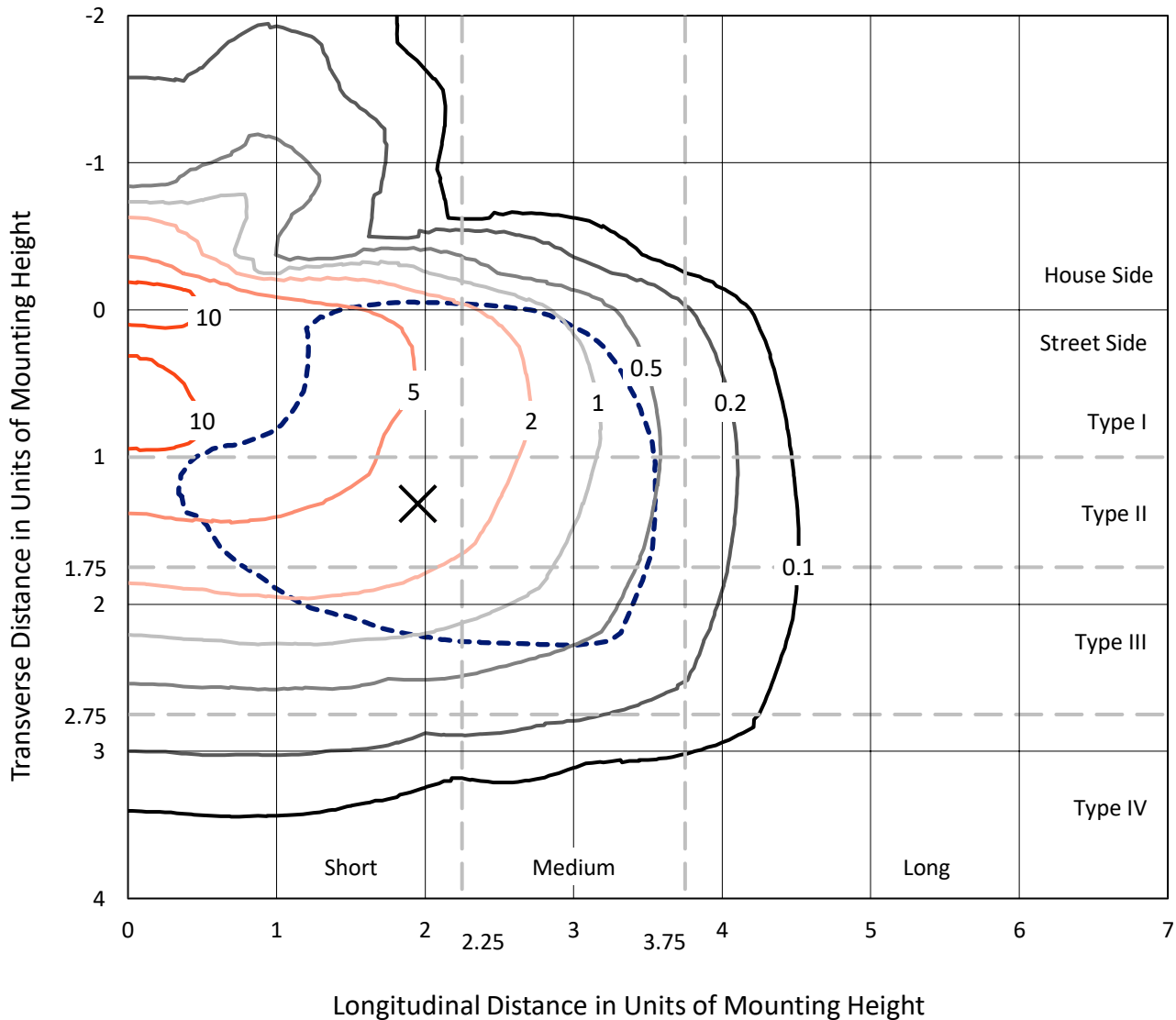
Lumens per Lamp: N/A
Luminaire Lumens: 7584.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

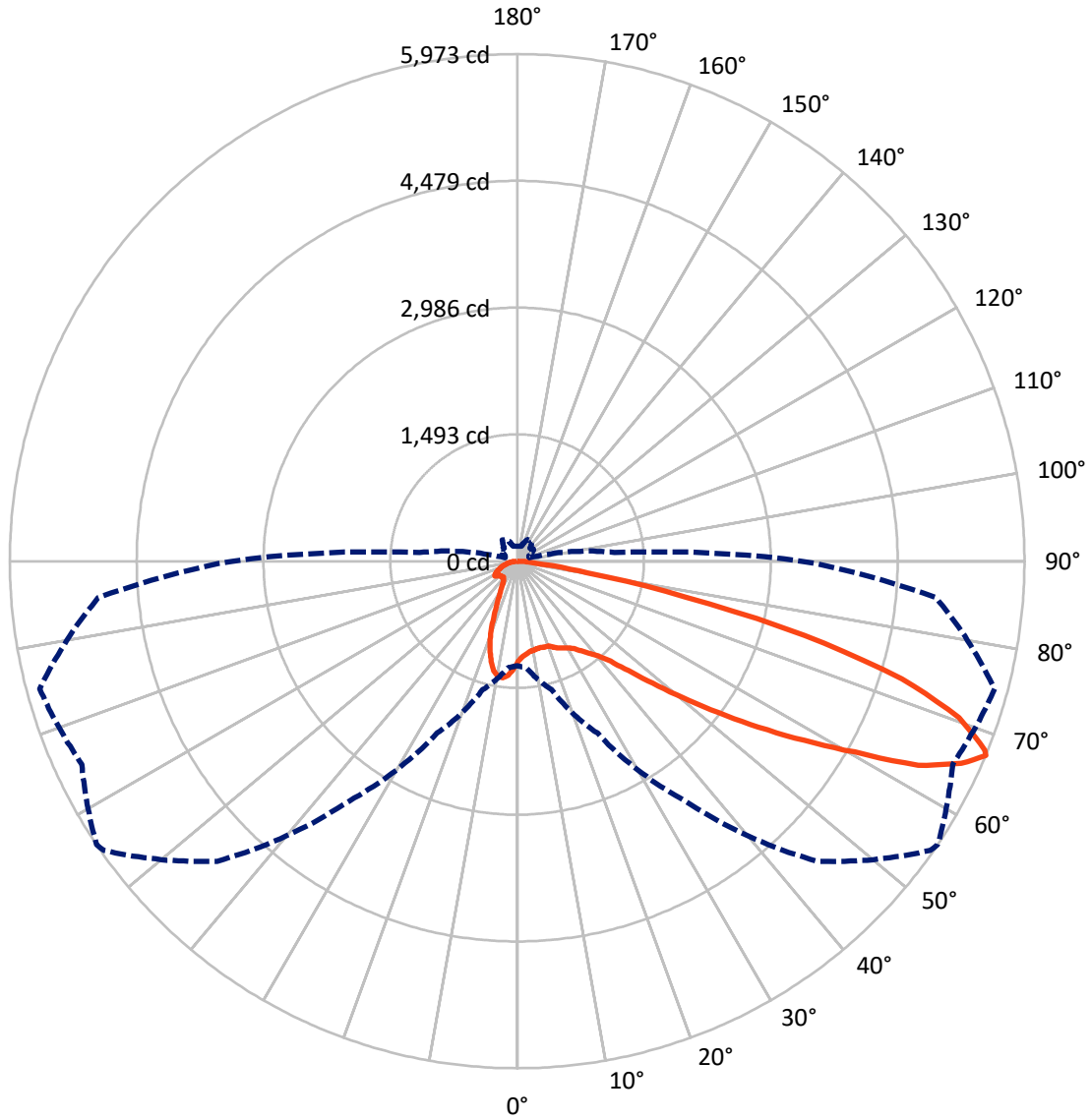
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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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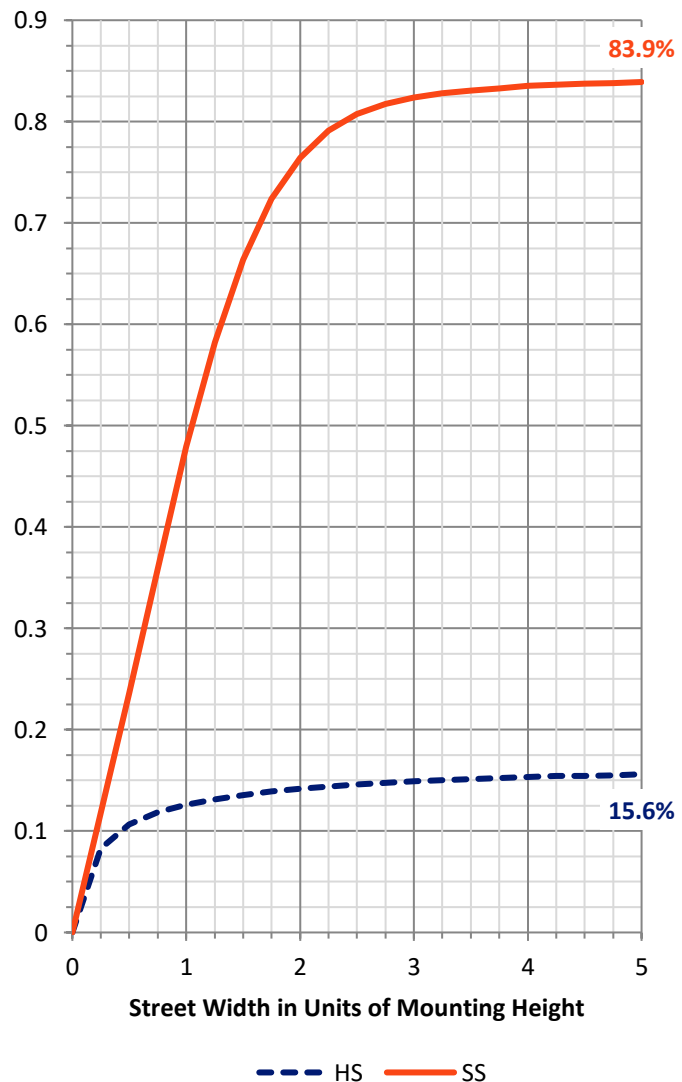
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1200.7	0.0	1200.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	6383.6	0.0	6383.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	7584.2	0.0	7584.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	1.5
10°-20°	310.1	4.1
20°-30°	486.4	6.4
30°-40°	694.4	9.2
40°-50°	1048.0	13.8
50°-60°	1668.2	22.0
60°-70°	2132.7	28.1
70°-80°	1039.8	13.7
80°-90°	91.0	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°	7584.2	100.0
0°-180°	7584.2	100.0

Coefficient of Utilization



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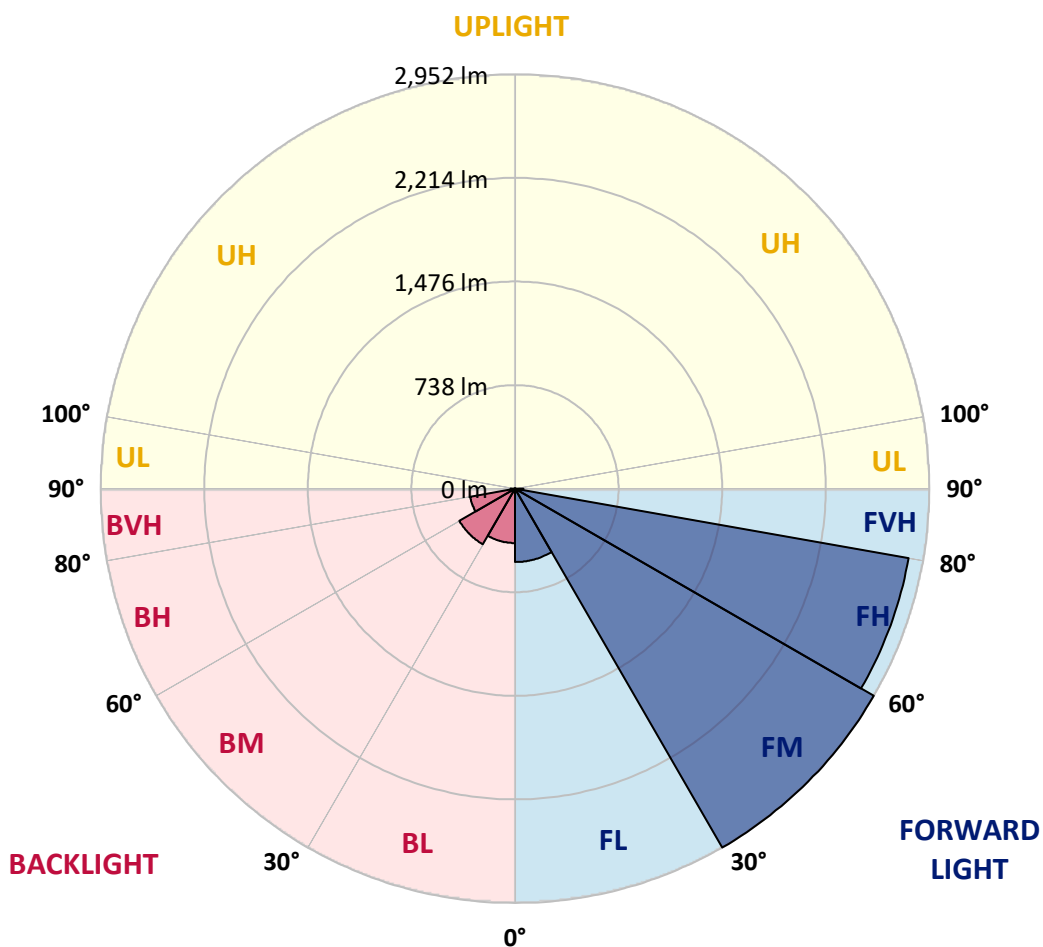
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.6	6.9			
FM (30°-60°)	2952.5	38.9			
FH (60°-80°)	2848.0	37.6			G2/5000
FVH (80°-90°)	60.4	0.8			G1/100
BL (0°-30°)	387.6	5.1	B1/500		
BM (30°-60°)	458.1	6.0	B1/1000		
BH (60°-80°)	324.4	4.3	B1/500		G1/500
BVH (80°-90°)	30.6	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°	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1
2.5°	1084.0	1079.6	1084.9	1079.6	1103.6	1117.8	1122.3	1128.5	1150.7	1172.1
5°	1038.7	1019.1	1040.5	1047.6	1049.4	1073.4	1098.3	1102.7	1114.3	1149.0
7.5°	963.1	985.3	977.3	998.7	1020.9	1044.9	1085.8	1074.3	1116.9	1149.8
10°	947.1	948.9	957.8	965.8	985.3	1016.5	1073.4	1066.3	1109.8	1180.1
12.5°	963.1	963.1	960.4	954.2	976.4	1006.7	1052.0	1055.6	1124.1	1189.0
15°	1019.1	1029.8	1001.3	1005.8	996.9	1006.7	1046.7	1054.7	1129.4	1196.1
17.5°	1156.1	1152.5	1118.7	1071.6	1032.5	1026.2	1053.8	1062.7	1124.1	1216.5
20°	1289.5	1282.4	1223.7	1174.7	1097.4	1060.9	1065.4	1066.3	1133.0	1229.9
22.5°	1438.0	1456.7	1392.6	1293.0	1197.0	1106.3	1088.5	1102.7	1153.4	1237.0
25°	1671.0	1631.0	1575.8	1445.1	1290.4	1176.5	1126.7	1133.8	1173.0	1254.8
27.5°	1839.0	1823.0	1736.8	1631.0	1421.1	1231.7	1147.2	1160.5	1208.5	1253.9
30°	2000.9	2000.9	1948.4	1790.1	1558.9	1324.1	1190.8	1184.5	1191.6	1252.1
32.5°	2190.3	2164.5	2088.9	1984.0	1732.3	1408.6	1225.4	1227.2	1227.2	1285.0
35°	2289.9	2331.7	2281.0	2110.3	1864.8	1549.1	1309.0	1295.7	1285.9	1321.5
37.5°	2435.8	2460.7	2407.3	2306.8	2029.4	1663.0	1382.8	1372.2	1315.3	1349.9
40°	2523.8	2519.4	2517.6	2471.3	2247.2	1797.3	1491.3	1463.8	1387.3	1450.4
42.5°	2573.6	2564.7	2674.1	2645.6	2452.7	1994.7	1627.4	1612.3	1527.8	1629.2
45°	2629.6	2695.4	2785.2	2865.3	2691.9	2272.1	1857.7	1836.4	1760.8	1889.7
47.5°	2678.5	2759.5	2874.2	2959.5	2908.0	2573.6	2142.3	2147.6	2097.8	2230.3
50°	2760.3	2768.4	2924.0	3096.5	3136.5	2851.9	2524.7	2515.8	2493.6	2679.4
52.5°	2735.4	2759.5	2956.0	3176.5	3242.3	3146.3	2935.5	2962.2	2932.9	3166.8
55°	2329.9	2402.0	2936.4	3261.0	3493.1	3478.9	3463.8	3446.0	3444.2	3714.6
57.5°	2145.9	2204.5	2586.9	3354.4	3761.7	3866.6	3964.4	3984.0	3983.1	4309.5
60°	2024.9	2085.4	2445.5	3303.7	3990.2	4374.4	4562.0	4564.7	4559.4	4945.3
62.5°	1788.4	1847.1	2201.0	3026.2	4053.4	4843.1	5261.0	5295.7	5051.2	5493.1
65°	1503.8	1551.8	1863.9	2602.1	3885.3	5141.0	5786.6	5745.7	5465.6	5806.2
67°	1229.9	1261.9	1566.0	2233.9	3446.0	4997.8	5938.7	5972.5	5656.8	5819.5
67.5°	1151.6	1181.0	1468.2	2108.5	3278.8	4889.3	5944.0	5938.7	5660.3	5822.2
70°	799.5	811.9	1000.4	1450.4	2415.3	4130.7	5510.0	5522.5	5422.9	5506.5
72.5°	530.0	548.7	668.7	914.2	1423.7	3005.8	4605.6	4739.0	4675.9	4514.9
75°	341.5	352.2	437.5	544.2	700.8	1711.9	3402.4	3491.3	3346.4	2792.4
77.5°	191.2	202.8	264.1	330.8	341.5	712.3	1911.1	2021.4	1712.8	1186.3
80°	119.2	134.3	199.2	196.5	162.7	261.5	787.9	843.9	684.8	408.2
82.5°	89.8	101.4	153.8	137.8	91.6	116.5	295.2	316.6	250.8	157.4
85°	61.4	77.4	111.2	85.4	48.0	56.0	117.4	126.3	114.7	76.5
87.5°	22.2	32.9	57.8	42.7	21.3	16.9	38.2	42.7	40.9	34.7
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°
1180.1	0°	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1	1180.1
1190.8	2.5°	1207.7	1220.1	1226.3	1262.8	1277.9	1275.2	1278.8	1284.1	1289.5	1296.6
1205.9	5°	1217.4	1255.7	1276.1	1318.8	1347.3	1334.8	1350.8	1346.4	1340.2	1339.3
1233.4	7.5°	1249.4	1298.4	1359.7	1371.3	1383.7	1352.6	1325.9	1289.5	1280.6	1249.4
1256.6	10°	1306.4	1346.4	1421.1	1425.5	1370.4	1290.4	1230.8	1155.2	1154.3	1108.9
1292.1	12.5°	1360.6	1406.0	1466.4	1440.6	1309.0	1199.6	1102.7	1020.0	985.3	962.2
1313.5	15°	1394.4	1469.1	1501.1	1390.0	1201.4	1053.8	928.4	839.5	803.9	787.0
1340.2	17.5°	1425.5	1529.6	1515.3	1301.0	1068.9	903.5	754.1	676.7	667.0	654.5
1382.8	20°	1468.2	1551.8	1464.7	1185.4	918.6	709.7	614.5	577.1	586.0	591.4
1387.3	22.5°	1508.2	1563.4	1400.6	1059.1	725.7	562.0	514.9	522.9	536.2	554.0
1398.0	25°	1526.0	1582.0	1314.4	884.8	552.2	473.1	462.4	475.8	498.0	498.9
1413.1	27.5°	1537.6	1568.7	1210.3	715.0	436.6	413.5	429.5	439.3	442.0	452.6
1445.1	30°	1558.0	1541.1	1078.7	511.3	366.4	367.3	387.7	387.7	387.7	395.7
1477.1	32.5°	1593.6	1522.5	924.9	373.5	315.7	344.2	338.8	337.0	333.5	323.7
1518.0	35°	1615.8	1471.8	730.1	276.6	283.7	315.7	313.9	286.4	240.1	217.0
1622.1	37.5°	1662.1	1446.0	537.1	213.4	265.0	301.5	291.7	225.0	174.3	152.1
1751.0	40°	1761.7	1429.1	371.7	186.8	252.6	294.4	260.6	192.1	133.4	94.3
1950.2	42.5°	1883.5	1430.0	252.6	176.1	253.4	309.5	250.8	164.5	94.3	75.6
2216.1	45°	2047.1	1416.6	173.4	176.1	269.5	334.4	257.0	149.4	91.6	96.0
2549.6	47.5°	2223.2	1428.2	128.9	160.1	272.1	335.3	234.8	146.7	88.0	111.2
2912.4	50°	2428.6	1439.8	106.7	147.6	273.0	324.6	216.1	143.2	91.6	117.4
3328.6	52.5°	2640.3	1476.2	90.7	139.6	283.7	320.1	216.1	148.5	91.6	102.3
3858.6	55°	2956.0	1569.6	130.7	174.3	322.8	349.5	265.9	208.1	128.1	131.6
4366.4	57.5°	3304.6	1665.6	145.8	183.2	331.7	314.8	286.4	229.4	135.2	136.1
4761.2	60°	3534.0	1669.2	145.0	178.7	310.4	272.1	280.1	241.9	137.8	116.5
5005.8	62.5°	3625.6	1560.7	151.2	178.7	289.0	254.3	287.2	260.6	142.3	145.8
5075.2	65°	3521.6	1336.6	145.8	160.1	254.3	227.7	289.0	264.1	155.6	146.7
4950.7	67°	3358.8	1151.6	148.5	152.1	236.6	216.1	304.1	277.5	180.5	176.1
4885.7	67.5°	3312.6	1102.7	147.6	147.6	230.3	212.5	307.7	277.5	184.1	182.3
4312.2	70°	2919.5	893.7	151.2	145.8	203.6	201.9	327.3	292.6	211.7	213.4
3167.6	72.5°	2222.3	677.6	150.3	145.8	177.0	193.0	329.9	302.4	230.3	213.4
1774.1	75°	1262.8	405.5	132.5	127.2	139.6	168.1	308.6	288.1	224.1	191.2
708.8	77.5°	522.0	209.0	121.8	114.7	115.6	137.0	257.0	268.6	213.4	162.7
236.6	80°	194.8	125.4	97.8	91.6	88.9	100.5	183.2	214.3	182.3	133.4
104.0	82.5°	101.4	78.3	66.7	66.7	60.5	64.0	98.7	142.3	137.8	91.6
41.8	85°	51.6	44.5	38.2	37.4	33.8	30.2	49.8	84.5	79.1	50.7
18.7	87.5°	27.6	24.9	16.0	15.1	12.5	8.0	8.9	16.9	27.6	22.2
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>
1180.1
1303.7
1347.3
1260.1
1107.2
956.9
783.5
660.7
585.2
544.2
507.8
462.4
404.6
318.4
227.7
151.2
91.6
73.8
97.8
123.6
136.1
104.9
138.7
131.6
120.1
147.6
144.1
173.4
178.7
197.4
189.4
170.7
153.8
121.8
72.0
41.8
16.0
0.0

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