

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: P477293

Luminaire Tested: **IFLD-S-SA2A-730-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477293
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

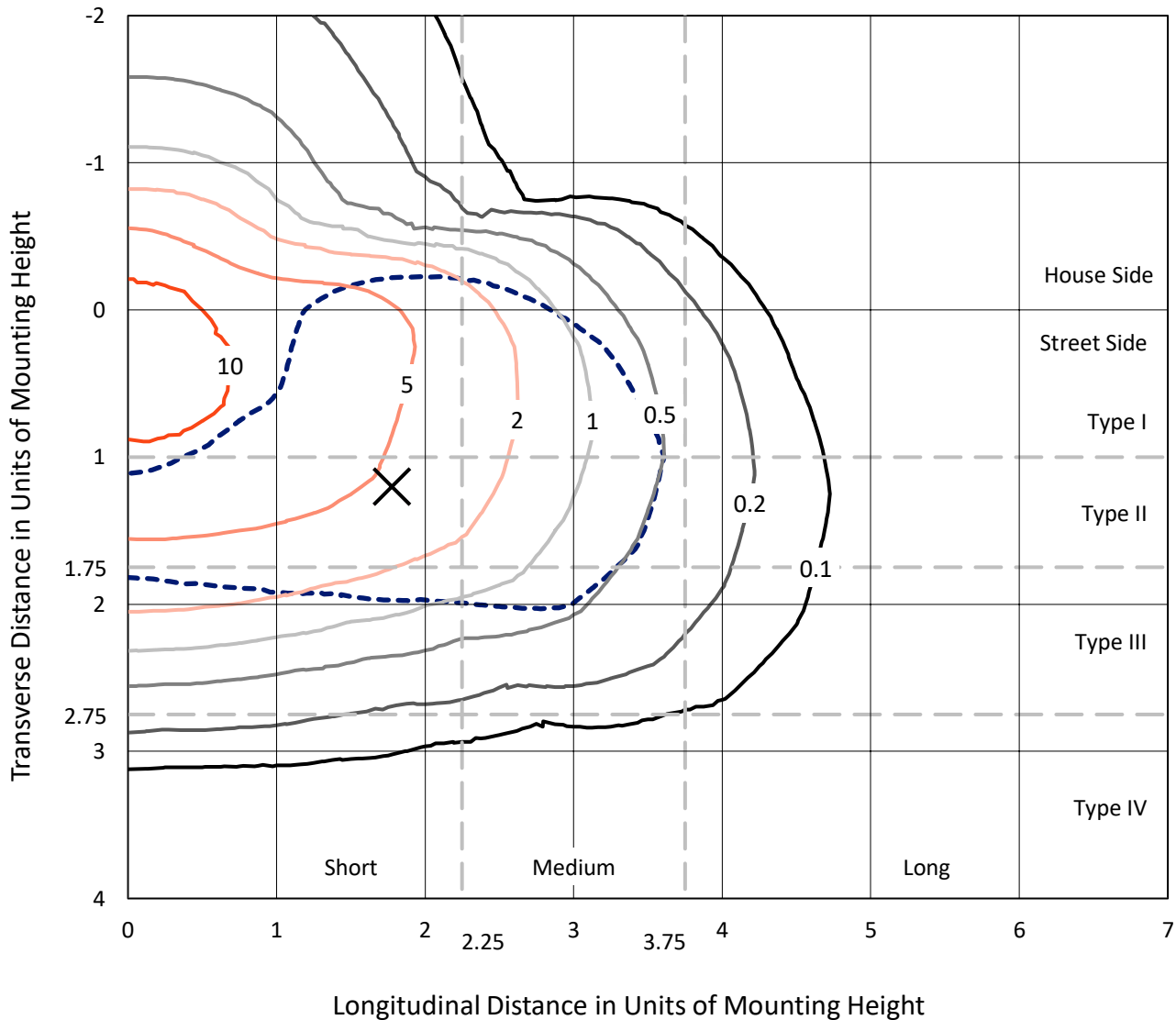
Lumens per Lamp: N/A
Luminaire Lumens: 8562.6 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (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

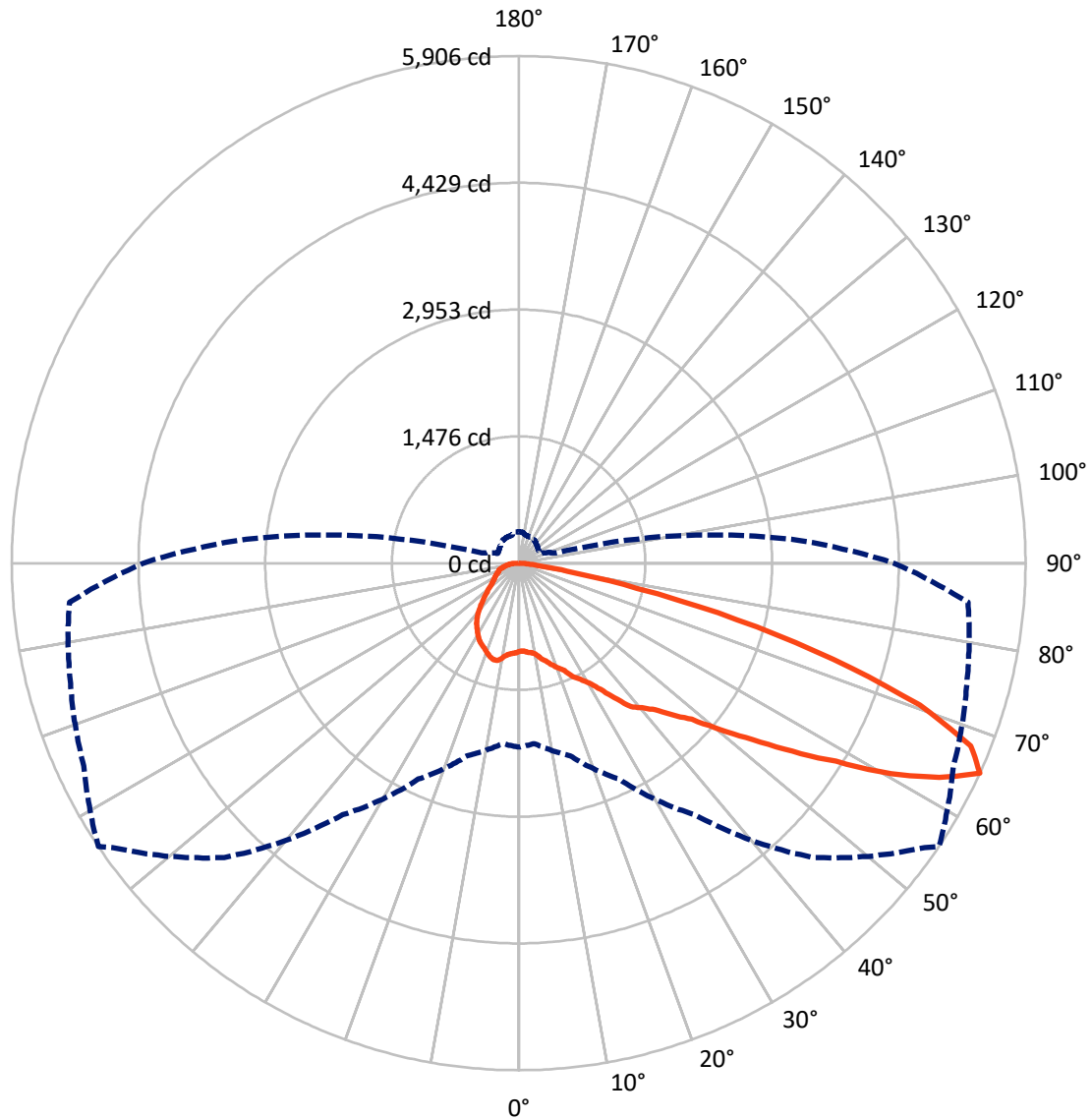
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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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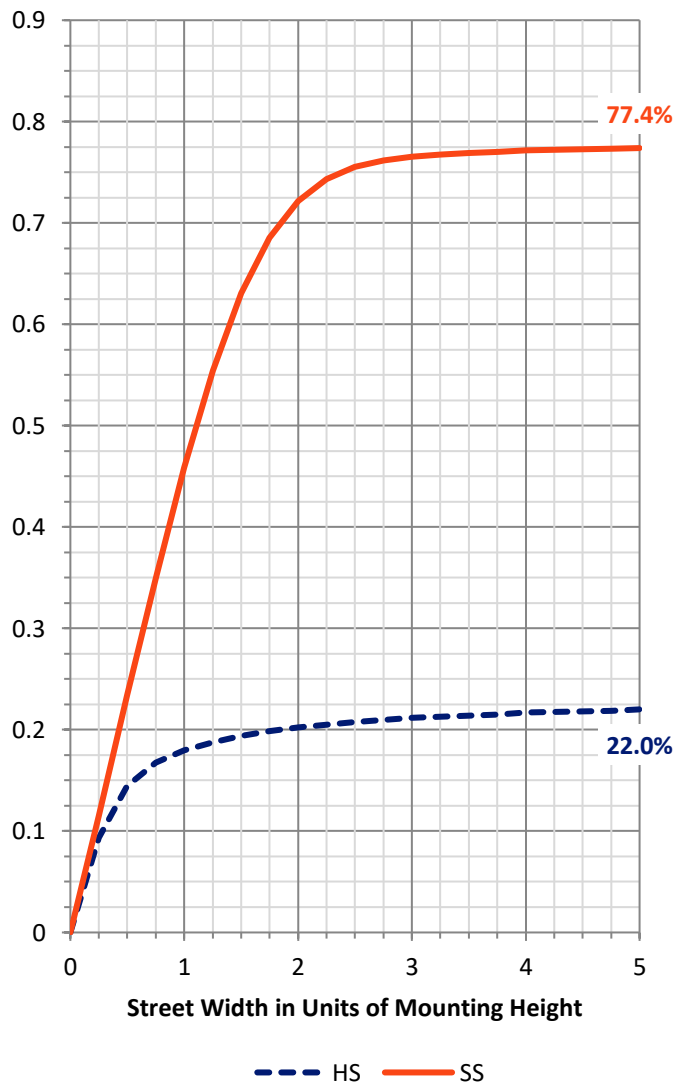
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1920.3	0.0	1920.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	6642.3	0.0	6642.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	8562.6	0.0	8562.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	1.2
10°-20°	330.7	3.9
20°-30°	588.9	6.9
30°-40°	881.8	10.3
40°-50°	1306.5	15.3
50°-60°	2013.1	23.5
60°-70°	2279.1	26.6
70°-80°	945.8	11.0
80°-90°	114.9	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°	8562.6	100.0
0°-180°	8562.6	100.0

Coefficient of Utilization

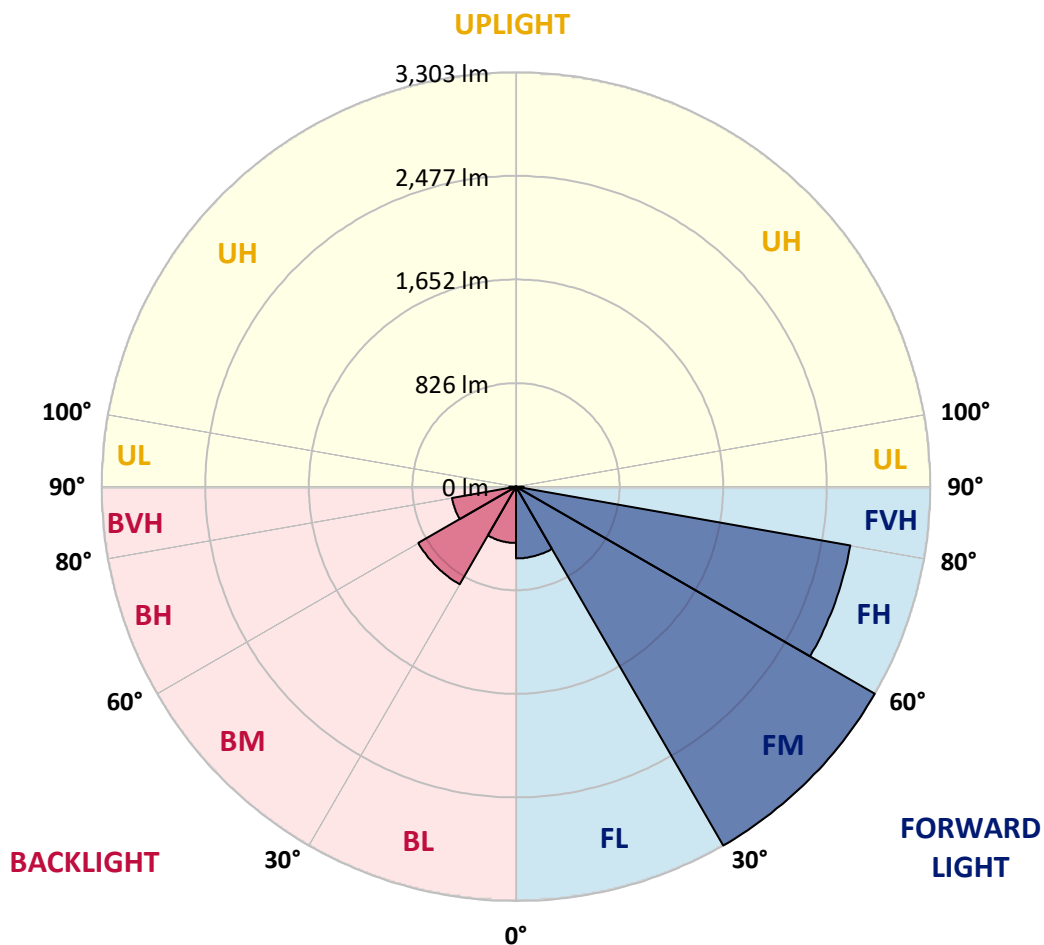


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.2	6.7			
FM (30°-60°)	3303.1	38.6			
FH (60°-80°)	2706.4	31.6			G2/5000
FVH (80°-90°)	60.6	0.7			G1/100
BL (0°-30°)	449.2	5.2	B1/500		
BM (30°-60°)	898.3	10.5	B1/1000		
BH (60°-80°)	518.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	54.3	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°	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8
2.5°	1000.9	1006.2	1002.7	1013.4	1022.4	1022.4	1029.5	1024.2	1031.3	1041.2
5°	1034.0	1012.5	1024.2	1029.5	1026.9	1031.3	1024.2	1042.1	1030.4	1049.3
7.5°	1042.1	1050.2	1060.0	1051.0	1059.1	1054.6	1055.5	1052.8	1046.6	1061.8
10°	1101.2	1089.6	1112.0	1098.5	1096.7	1095.0	1091.4	1077.9	1093.2	1094.1
12.5°	1169.3	1158.6	1157.7	1146.9	1161.3	1135.3	1140.7	1133.5	1136.2	1139.8
15°	1218.6	1214.1	1234.7	1222.2	1203.4	1191.7	1204.3	1184.6	1194.4	1192.6
17.5°	1316.3	1315.4	1300.1	1279.5	1268.8	1251.8	1249.1	1241.0	1248.2	1244.6
20°	1384.4	1394.2	1396.9	1372.7	1331.5	1312.7	1308.2	1301.9	1310.0	1307.3
22.5°	1488.3	1473.1	1484.7	1442.6	1427.4	1382.6	1366.5	1357.5	1396.0	1386.2
25°	1554.6	1570.7	1559.1	1544.8	1510.7	1455.2	1443.5	1463.2	1478.5	1467.7
27.5°	1704.3	1688.1	1677.4	1634.4	1612.0	1553.7	1540.3	1533.1	1536.7	1543.0
30°	1818.1	1827.0	1802.8	1772.4	1715.9	1656.8	1625.4	1619.1	1606.6	1595.8
32.5°	1980.2	1966.8	1952.5	1932.7	1884.4	1806.4	1775.9	1752.6	1715.0	1664.8
35°	2058.2	2096.7	2086.0	2033.1	1996.4	1966.8	1957.8	1922.0	1890.6	1811.8
37.5°	2188.1	2204.2	2189.0	2172.0	2155.0	2123.6	2112.8	2122.7	2060.9	1931.0
40°	2272.3	2306.4	2337.8	2290.3	2286.7	2293.0	2226.6	2215.0	2087.8	2019.7
42.5°	2444.4	2458.7	2465.0	2463.2	2483.8	2483.8	2357.5	2332.4	2241.9	2186.3
45°	2672.0	2683.6	2706.0	2722.2	2698.9	2710.5	2530.4	2520.5	2439.9	2429.1
47.5°	2869.1	2896.9	2947.1	2994.5	3025.0	2985.6	2788.5	2718.6	2698.0	2762.5
50°	3041.1	3008.0	3125.4	3173.8	3307.3	3372.7	3073.4	3045.6	3012.5	3136.1
52.5°	3058.2	3103.0	3268.7	3365.5	3640.6	3761.6	3422.9	3411.2	3370.9	3513.3
55°	3180.0	3174.6	3341.3	3551.0	3878.0	4081.4	3878.0	3870.9	3783.1	3918.4
57.5°	3159.4	3214.1	3345.8	3638.8	4092.2	4424.6	4405.8	4356.5	4233.8	4344.0
60°	3089.5	3103.9	3264.3	3636.1	4216.7	4776.8	4975.7	4985.5	4734.6	4822.5
62.5°	2693.5	2726.6	2930.0	3350.3	4128.0	5019.6	5532.1	5497.2	5296.5	5196.1
65°	2142.4	2109.3	2320.7	2775.0	3576.1	4847.5	5775.8	5905.8	5590.4	5406.7
67.5°	1313.6	1305.5	1508.9	1909.4	2675.6	4125.3	5581.4	5682.6	5508.8	5361.9
70°	676.5	655.9	783.1	1065.4	1681.9	3026.8	4857.4	4956.9	5122.6	4809.0
72.5°	315.4	310.9	379.0	524.2	856.6	1779.5	3761.6	3833.2	4182.7	4054.6
75°	185.5	188.2	226.7	274.2	417.6	838.7	2496.4	2635.2	3014.3	2922.0
77.5°	138.9	138.9	161.3	190.9	243.7	324.4	1232.0	1415.7	1762.5	1585.1
80°	102.1	103.9	123.7	143.4	169.4	167.6	489.2	573.5	808.2	690.8
82.5°	79.7	82.4	95.9	106.6	119.2	101.3	200.7	215.9	332.4	264.3
85°	55.6	57.3	75.3	72.6	72.6	56.5	83.3	87.8	131.7	125.4
87.5°	13.4	15.2	36.7	40.3	30.5	17.0	26.0	29.6	47.5	54.7
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°
1027.8	0°	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8	1027.8
1045.7	2.5°	1032.2	1035.8	1051.0	1043.0	1047.5	1028.6	1043.9	1031.3	1042.1	1036.7
1053.7	5°	1060.9	1052.8	1061.8	1055.5	1055.5	1062.7	1073.4	1065.4	1081.5	1074.3
1060.0	7.5°	1072.6	1073.4	1078.8	1079.7	1075.2	1097.6	1098.5	1095.8	1111.1	1107.5
1103.0	10°	1101.2	1102.1	1112.0	1117.4	1112.9	1120.9	1112.0	1104.8	1103.9	1100.3
1137.1	12.5°	1146.9	1155.9	1154.1	1158.6	1159.5	1125.4	1104.8	1069.9	1065.4	1069.9
1187.2	15°	1189.0	1185.5	1187.2	1196.2	1158.6	1103.9	1067.2	1037.6	1039.4	1040.3
1252.7	17.5°	1239.2	1241.9	1244.6	1203.4	1134.4	1069.9	1037.6	1037.6	1028.6	1032.2
1298.4	20°	1296.6	1285.8	1262.5	1204.3	1092.3	1030.4	1020.6	1020.6	1009.8	1002.7
1347.6	22.5°	1341.4	1319.9	1284.9	1176.5	1054.6	1015.2	991.0	974.0	961.4	947.1
1402.3	25°	1370.0	1358.4	1290.3	1147.8	1026.9	974.9	939.0	913.1	896.9	878.1
1445.3	27.5°	1413.9	1391.5	1305.5	1114.7	996.4	934.6	879.0	838.7	808.2	788.5
1510.7	30°	1473.1	1440.8	1294.8	1067.2	949.8	864.7	799.3	747.3	712.3	696.2
1572.5	32.5°	1521.5	1479.4	1285.8	1024.2	897.8	793.9	707.0	654.1	634.4	613.8
1676.5	35°	1613.8	1530.4	1279.5	1000.0	851.2	723.1	631.7	586.0	560.9	530.5
1738.3	37.5°	1684.5	1619.1	1264.3	949.8	791.2	654.1	574.4	533.1	495.5	463.2
1881.7	40°	1795.7	1742.8	1265.2	879.0	720.4	595.0	529.6	486.5	439.1	411.3
2094.0	42.5°	2004.4	1864.6	1270.6	822.6	640.7	546.6	489.2	438.2	390.7	367.4
2336.0	45°	2260.7	2032.2	1237.4	771.5	559.1	500.9	440.8	389.8	359.3	342.3
2664.8	47.5°	2555.5	2196.2	1192.6	675.6	491.0	452.5	396.0	366.5	344.1	334.2
3088.6	50°	2885.2	2430.9	1180.1	587.8	438.2	411.3	374.5	352.1	336.9	325.3
3566.2	52.5°	3310.0	2704.2	1155.0	497.3	392.5	378.1	366.5	351.2	337.8	327.9
4011.5	55°	3715.9	3007.1	1128.1	422.9	360.2	362.0	368.3	354.8	343.2	327.9
4510.6	57.5°	4172.8	3316.2	1028.6	368.3	336.0	353.9	366.5	351.2	339.6	327.9
5021.4	60°	4455.1	3490.1	834.2	320.8	314.5	338.7	355.7	339.6	327.1	331.5
5256.1	62.5°	4569.8	3398.7	629.0	291.2	299.3	318.1	338.7	332.4	323.5	340.5
5253.4	65°	4374.4	3188.1	449.8	266.1	278.7	297.5	323.5	330.6	333.3	366.5
4825.1	67.5°	3892.4	2775.9	330.6	245.5	257.2	284.9	334.2	345.9	344.1	385.3
4049.2	70°	3114.6	2171.1	258.1	228.5	249.1	294.8	349.5	349.5	336.9	385.3
3088.6	72.5°	2266.1	1530.4	222.2	208.8	228.5	270.6	347.7	346.8	330.6	352.1
1966.8	75°	1371.8	890.7	196.2	189.1	196.2	232.1	332.4	327.1	304.7	302.9
946.2	77.5°	683.7	448.0	160.4	167.6	171.1	194.4	292.1	300.2	269.7	262.5
373.6	80°	288.5	195.3	133.5	144.3	144.3	164.0	242.8	248.2	224.0	210.6
147.8	82.5°	131.7	112.0	113.8	125.4	117.4	127.2	192.6	198.9	181.9	159.5
62.7	85°	55.6	63.6	86.9	98.6	86.9	82.4	132.6	139.8	118.3	98.6
26.9	87.5°	25.1	34.9	54.7	71.7	43.9	38.5	70.8	73.5	59.1	43.9
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>
1027.8
1026.9
1064.5
1102.1
1100.3
1071.7
1052.8
1033.1
991.9
939.0
881.7
797.5
705.2
612.9
527.8
464.1
414.0
369.2
345.9
332.4
327.1
327.1
327.1
327.1
327.9
336.0
366.5
388.0
377.2
339.6
299.3
258.1
206.1
155.9
99.5
41.2
0.0

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