

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: P477254

Luminaire Tested: **IFLD-S-SA2A-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477254
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-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

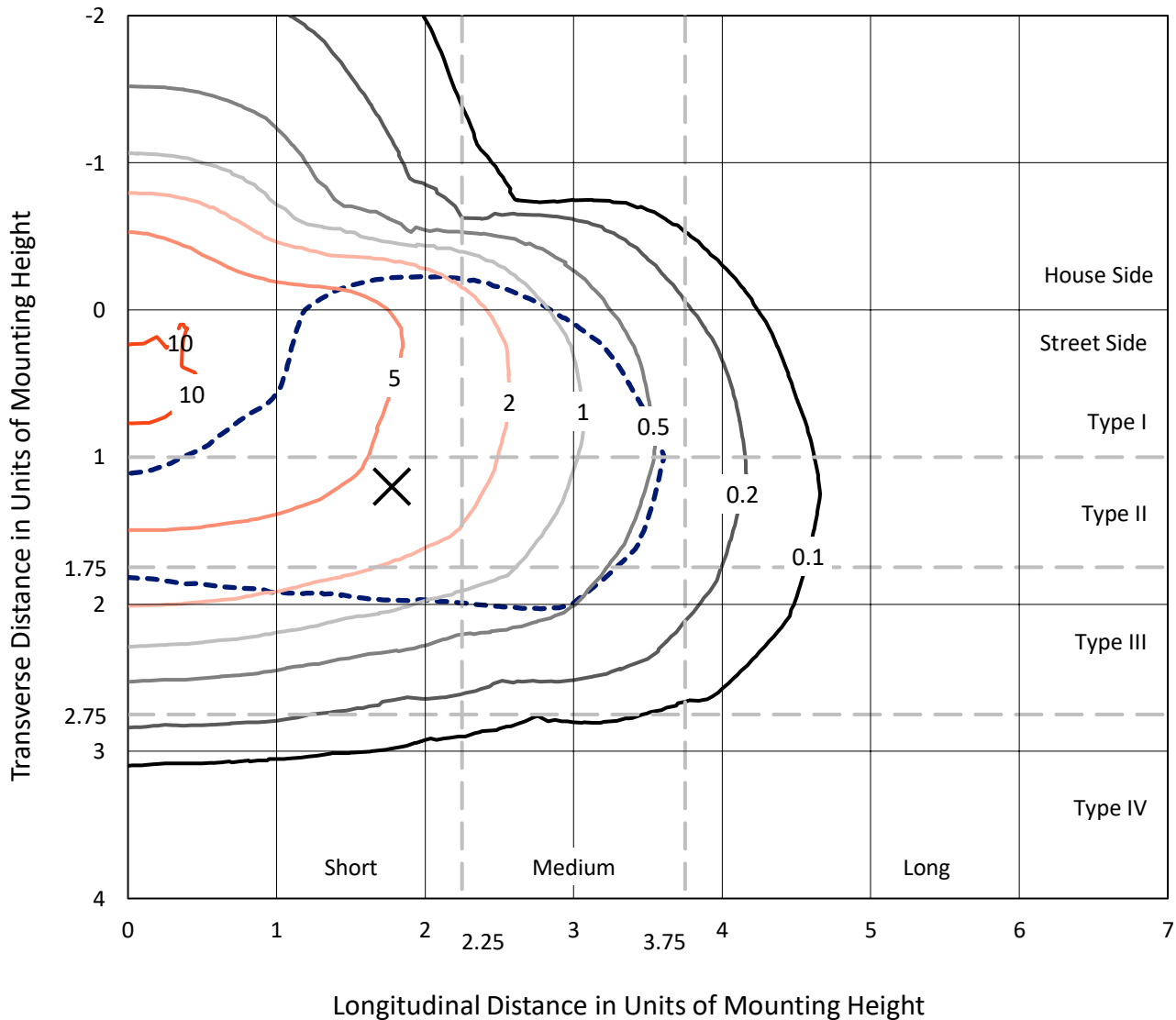
Lumens per Lamp: N/A
Luminaire Lumens: 7863.9 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

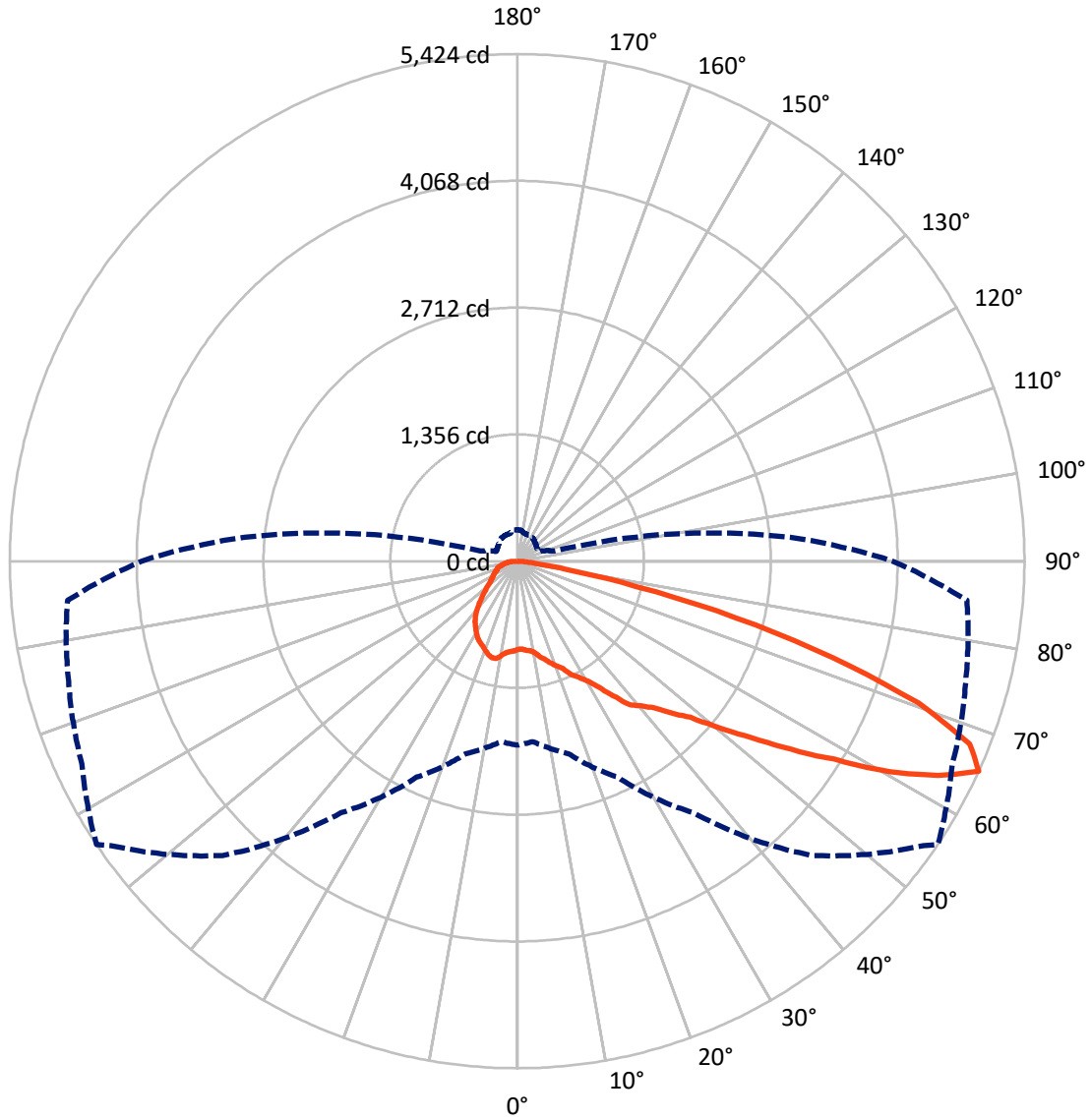
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 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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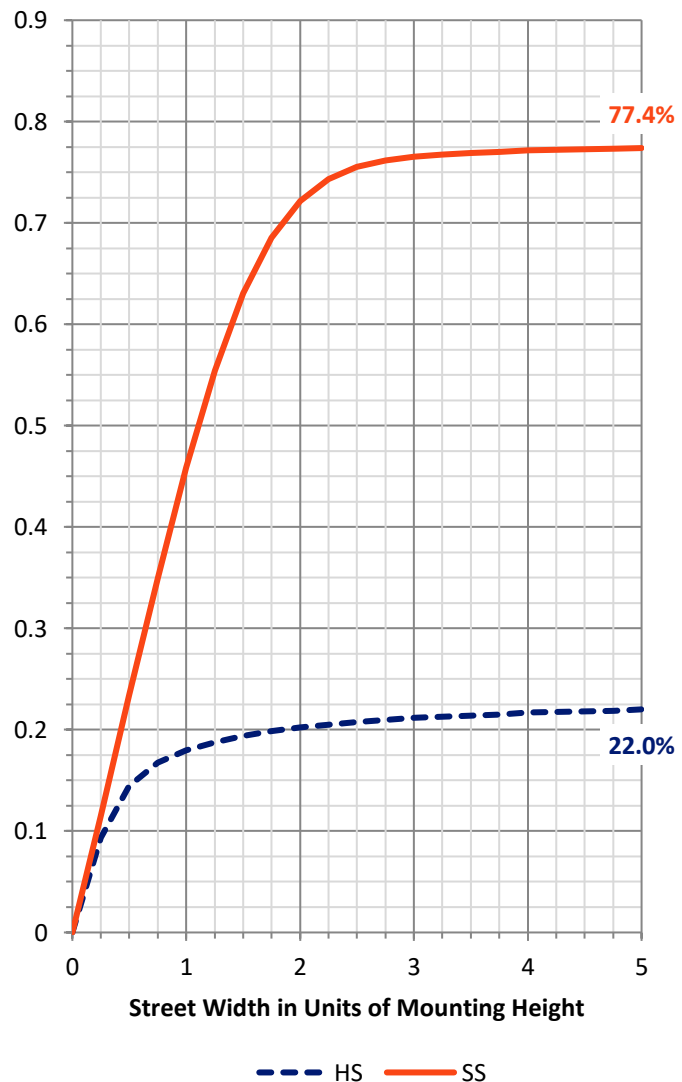
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.6	0.0	1763.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	6100.3	0.0	6100.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	7863.9	0.0	7863.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.2
10°-20°	303.7	3.9
20°-30°	540.8	6.9
30°-40°	809.8	10.3
40°-50°	1199.9	15.3
50°-60°	1848.8	23.5
60°-70°	2093.1	26.6
70°-80°	868.7	11.0
80°-90°	105.5	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°	7863.9	100.0
0°-180°	7863.9	100.0

Coefficient of Utilization



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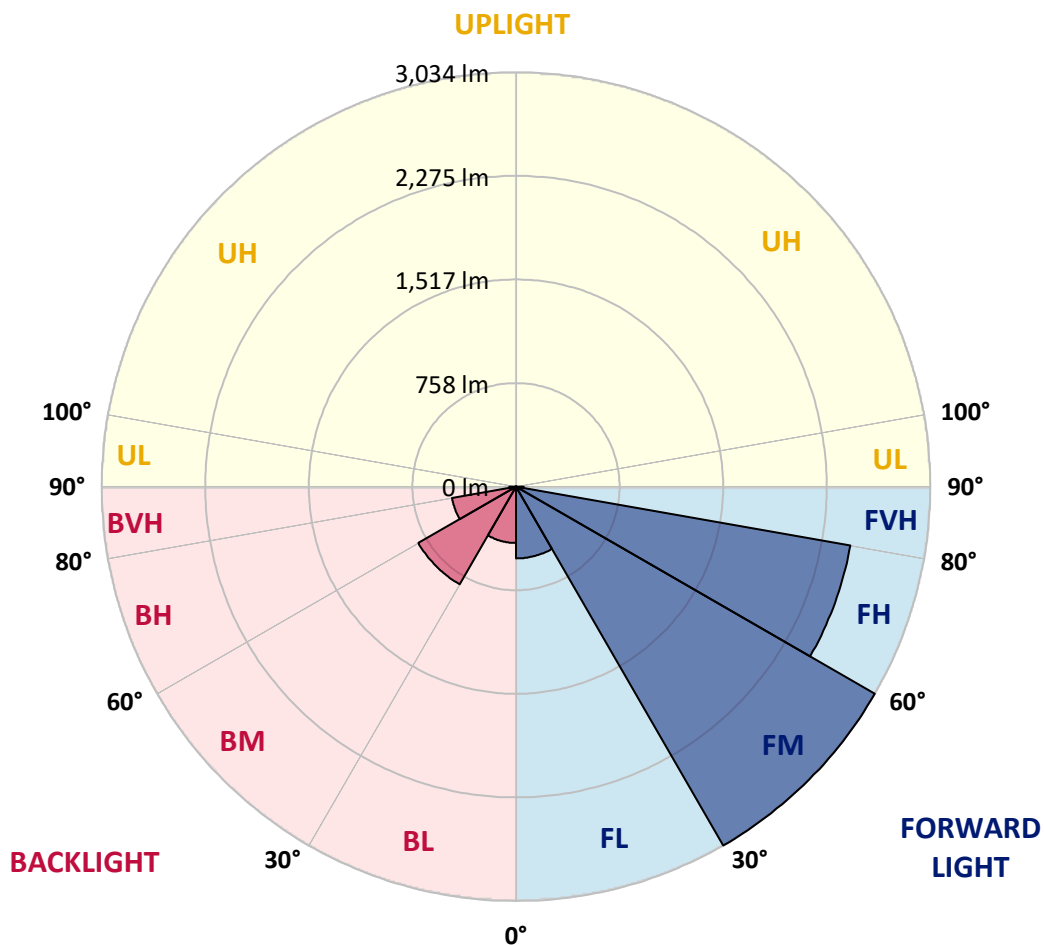
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.5	6.7			
FM (30°-60°)	3033.5	38.6			
FH (60°-80°)	2485.5	31.6			G2/5000
FVH (80°-90°)	55.7	0.7			G1/100
BL (0°-30°)	412.5	5.2	B1/500		
BM (30°-60°)	825.0	10.5	B1/1000		
BH (60°-80°)	476.2	6.1	B1/500		G1/500
BVH (80°-90°)	49.9	0.6			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°	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9
2.5°	919.2	924.1	920.9	930.7	939.0	939.0	945.5	940.6	947.2	956.2
5°	949.7	929.9	940.6	945.5	943.1	947.2	940.6	957.1	946.4	963.6
7.5°	957.1	964.5	973.5	965.3	972.7	968.6	969.4	966.9	961.2	975.2
10°	1011.4	1000.7	1021.2	1008.9	1007.3	1005.6	1002.3	990.0	1004.0	1004.8
12.5°	1073.9	1064.0	1063.2	1053.3	1066.5	1042.6	1047.6	1041.0	1043.5	1046.8
15°	1119.2	1115.1	1134.0	1122.5	1105.2	1094.5	1106.0	1087.9	1097.0	1095.3
17.5°	1208.9	1208.1	1194.1	1175.1	1165.3	1149.6	1147.2	1139.7	1146.3	1143.0
20°	1271.4	1280.5	1282.9	1260.7	1222.9	1205.6	1201.5	1195.7	1203.1	1200.6
22.5°	1366.9	1352.9	1363.6	1324.9	1310.9	1269.8	1255.0	1246.7	1282.1	1273.1
25°	1427.8	1442.6	1431.9	1418.7	1387.4	1336.4	1325.7	1343.8	1357.8	1347.9
27.5°	1565.2	1550.4	1540.5	1501.0	1480.4	1426.9	1414.6	1408.0	1411.3	1417.1
30°	1669.7	1677.9	1655.7	1627.7	1575.9	1521.6	1492.8	1487.0	1475.5	1465.6
32.5°	1818.7	1806.3	1793.1	1775.0	1730.6	1659.0	1631.0	1609.6	1575.1	1529.0
35°	1890.3	1925.6	1915.8	1867.2	1833.5	1806.3	1798.1	1765.2	1736.4	1663.9
37.5°	2009.6	2024.4	2010.4	1994.8	1979.1	1950.3	1940.5	1949.5	1892.7	1773.4
40°	2086.9	2118.2	2147.0	2103.4	2100.1	2105.9	2045.0	2034.3	1917.4	1854.9
42.5°	2244.9	2258.1	2263.9	2262.2	2281.1	2281.1	2165.1	2142.1	2059.0	2007.9
45°	2454.0	2464.7	2485.2	2500.0	2478.6	2489.3	2323.9	2314.9	2240.8	2230.9
47.5°	2635.0	2660.5	2706.6	2750.2	2778.2	2742.0	2560.9	2496.7	2477.8	2537.1
50°	2793.0	2762.6	2870.4	2914.8	3037.4	3097.5	2822.6	2797.1	2766.7	2880.2
52.5°	2808.6	2849.8	3002.0	3090.9	3343.5	3454.6	3143.6	3132.9	3095.8	3226.7
55°	2920.6	2915.6	3068.7	3261.2	3561.6	3748.4	3561.6	3555.0	3474.4	3598.6
57.5°	2901.6	2951.8	3072.8	3341.9	3758.3	4063.6	4046.3	4001.1	3888.3	3989.5
60°	2837.4	2850.6	2997.9	3339.4	3872.7	4387.0	4569.7	4578.7	4348.3	4429.0
62.5°	2473.7	2504.2	2691.0	3076.9	3791.2	4610.0	5080.7	5048.6	4864.3	4772.1
65°	1967.6	1937.2	2131.4	2548.6	3284.3	4452.0	5304.6	5423.9	5134.2	4965.5
67.5°	1206.4	1199.0	1385.8	1753.6	2457.2	3788.7	5126.0	5219.0	5059.3	4924.4
70°	621.3	602.4	719.2	978.5	1544.6	2779.8	4461.1	4552.4	4704.6	4416.6
72.5°	289.7	285.6	348.1	481.4	786.7	1634.3	3454.6	3520.5	3841.4	3723.7
75°	170.3	172.8	208.2	251.8	383.5	770.3	2292.7	2420.2	2768.3	2683.6
77.5°	127.6	127.6	148.1	175.3	223.8	297.9	1131.5	1300.2	1618.7	1455.8
80°	93.8	95.5	113.6	131.7	155.5	153.9	449.3	526.7	742.3	634.5
82.5°	73.2	75.7	88.1	97.9	109.4	93.0	184.3	198.3	305.3	242.8
85°	51.0	52.7	69.1	66.7	66.7	51.8	76.5	80.6	121.0	115.2
87.5°	12.3	14.0	33.7	37.0	28.0	15.6	23.9	27.2	43.6	50.2
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°
943.9	0°	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9	943.9
960.4	2.5°	948.0	951.3	965.3	957.9	962.0	944.7	958.7	947.2	957.1	952.1
967.8	5°	974.3	966.9	975.2	969.4	969.4	976.0	985.9	978.5	993.3	986.7
973.5	7.5°	985.0	985.9	990.8	991.6	987.5	1008.1	1008.9	1006.4	1020.4	1017.1
1013.0	10°	1011.4	1012.2	1021.2	1026.2	1022.1	1029.5	1021.2	1014.7	1013.8	1010.5
1044.3	12.5°	1053.3	1061.6	1059.9	1064.0	1064.9	1033.6	1014.7	982.6	978.5	982.6
1090.4	15°	1092.0	1088.7	1090.4	1098.6	1064.0	1013.8	980.1	952.9	954.6	955.4
1150.4	17.5°	1138.1	1140.6	1143.0	1105.2	1041.8	982.6	952.9	952.9	944.7	948.0
1192.4	20°	1190.8	1180.9	1159.5	1106.0	1003.1	946.4	937.3	937.3	927.4	920.9
1237.7	22.5°	1231.9	1212.2	1180.1	1080.5	968.6	932.4	910.2	894.5	883.0	869.8
1287.9	25°	1258.2	1247.6	1185.0	1054.2	943.1	895.3	862.4	838.6	823.7	806.5
1327.4	27.5°	1298.6	1278.0	1199.0	1023.7	915.1	858.3	807.3	770.3	742.3	724.2
1387.4	30°	1352.9	1323.3	1189.1	980.1	872.3	794.1	734.0	686.3	654.2	639.4
1444.2	32.5°	1397.3	1358.6	1180.9	940.6	824.6	729.1	649.3	600.7	582.6	563.7
1539.7	35°	1482.1	1405.6	1175.1	918.4	781.8	664.1	580.2	538.2	515.1	487.2
1596.5	37.5°	1547.1	1487.0	1161.1	872.3	726.6	600.7	527.5	489.6	455.1	425.5
1728.1	40°	1649.1	1600.6	1162.0	807.3	661.6	546.4	486.3	446.8	403.2	377.7
1923.2	42.5°	1840.9	1712.5	1166.9	755.4	588.4	502.0	449.3	402.4	358.8	337.4
2145.4	45°	2076.2	1866.4	1136.5	708.5	513.5	460.0	404.9	358.0	330.0	314.4
2447.4	47.5°	2347.0	2017.0	1095.3	620.5	451.0	415.6	363.7	336.6	316.0	307.0
2836.6	50°	2649.8	2232.6	1083.8	539.8	402.4	377.7	344.0	323.4	309.4	298.7
3275.2	52.5°	3039.9	2483.6	1060.7	456.7	360.4	347.3	336.6	322.6	310.2	301.2
3684.2	55°	3412.7	2761.7	1036.1	388.4	330.8	332.5	338.2	325.9	315.2	301.2
4142.6	57.5°	3832.4	3045.6	944.7	338.2	308.6	325.1	336.6	322.6	311.9	301.2
4611.7	60°	4091.6	3205.3	766.1	294.6	288.8	311.1	326.7	311.9	300.4	304.5
4827.3	62.5°	4196.9	3121.3	577.7	267.4	274.9	292.1	311.1	305.3	297.1	312.7
4824.8	65°	4017.5	2928.0	413.1	244.4	255.9	273.2	297.1	303.7	306.1	336.6
4431.4	67.5°	3574.8	2549.4	303.7	225.5	236.2	261.7	307.0	317.6	316.0	353.9
3718.8	70°	2860.5	1993.9	237.0	209.8	228.8	270.7	320.9	320.9	309.4	353.9
2836.6	72.5°	2081.2	1405.6	204.1	191.7	209.8	248.5	319.3	318.5	303.7	323.4
1806.3	75°	1259.9	818.0	180.2	173.6	180.2	213.1	305.3	300.4	279.8	278.1
869.0	77.5°	627.9	411.5	147.3	153.9	157.2	178.6	268.3	275.7	247.7	241.1
343.2	80°	265.0	179.4	122.6	132.5	132.5	150.6	223.0	227.9	205.7	193.4
135.8	82.5°	121.0	102.9	104.5	115.2	107.8	116.9	176.9	182.7	167.1	146.5
57.6	85°	51.0	58.4	79.8	90.5	79.8	75.7	121.8	128.4	108.6	90.5
24.7	87.5°	23.0	32.1	50.2	65.8	40.3	35.4	65.0	67.5	54.3	40.3
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



180°
943.9
943.1
977.6
1012.2
1010.5
984.2
966.9
948.8
911.0
862.4
809.8
732.4
647.6
562.9
484.7
426.3
380.2
339.0
317.6
305.3
300.4
300.4
300.4
300.4
301.2
308.6
336.6
356.3
346.5
311.9
274.9
237.0
189.3
143.2
91.3
37.9
0.0

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