

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: P477528

Luminaire Tested: **IFLD-S-SA2B-830-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477528
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

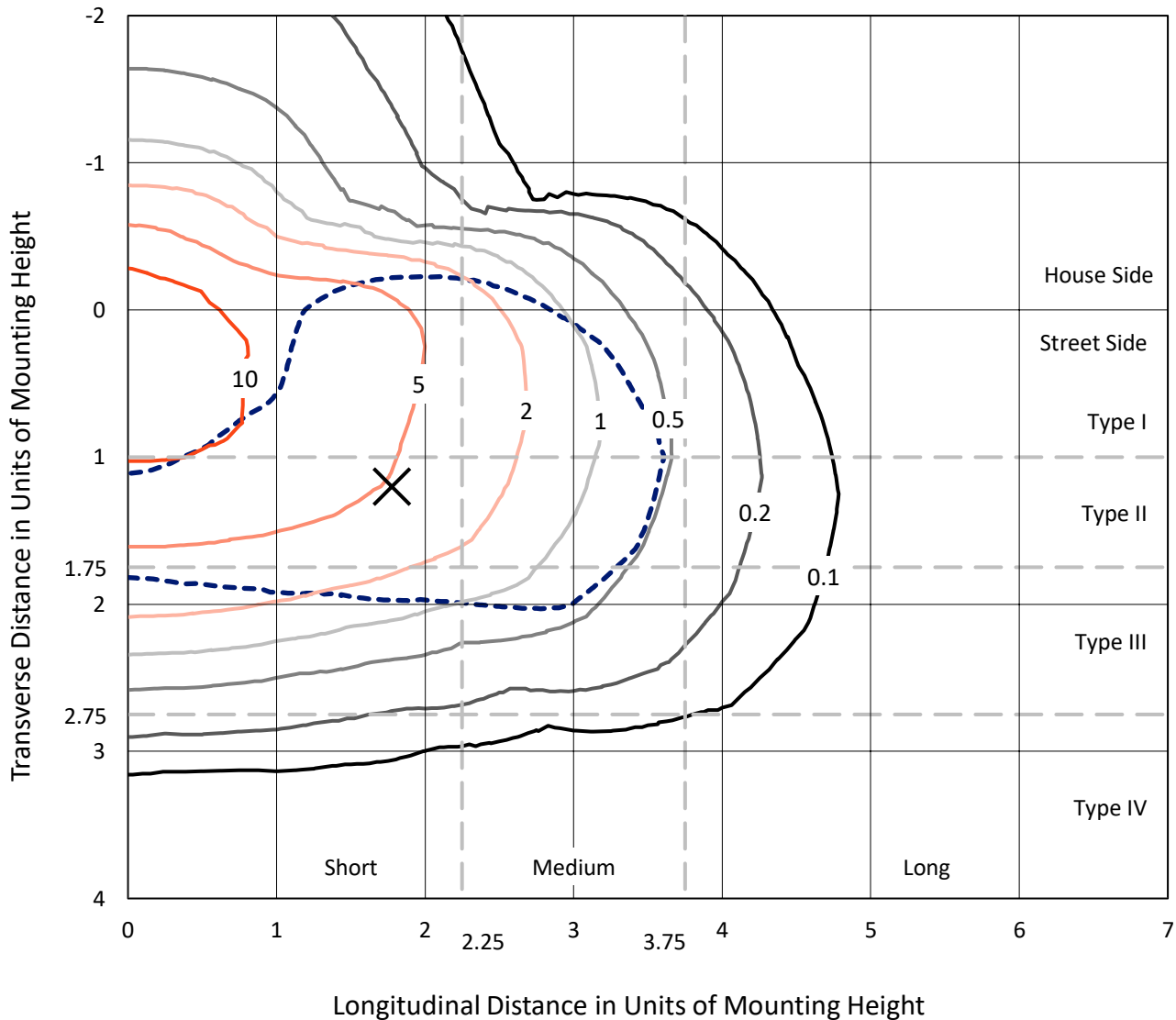
Lumens per Lamp: N/A
Luminaire Lumens: 9240.6 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

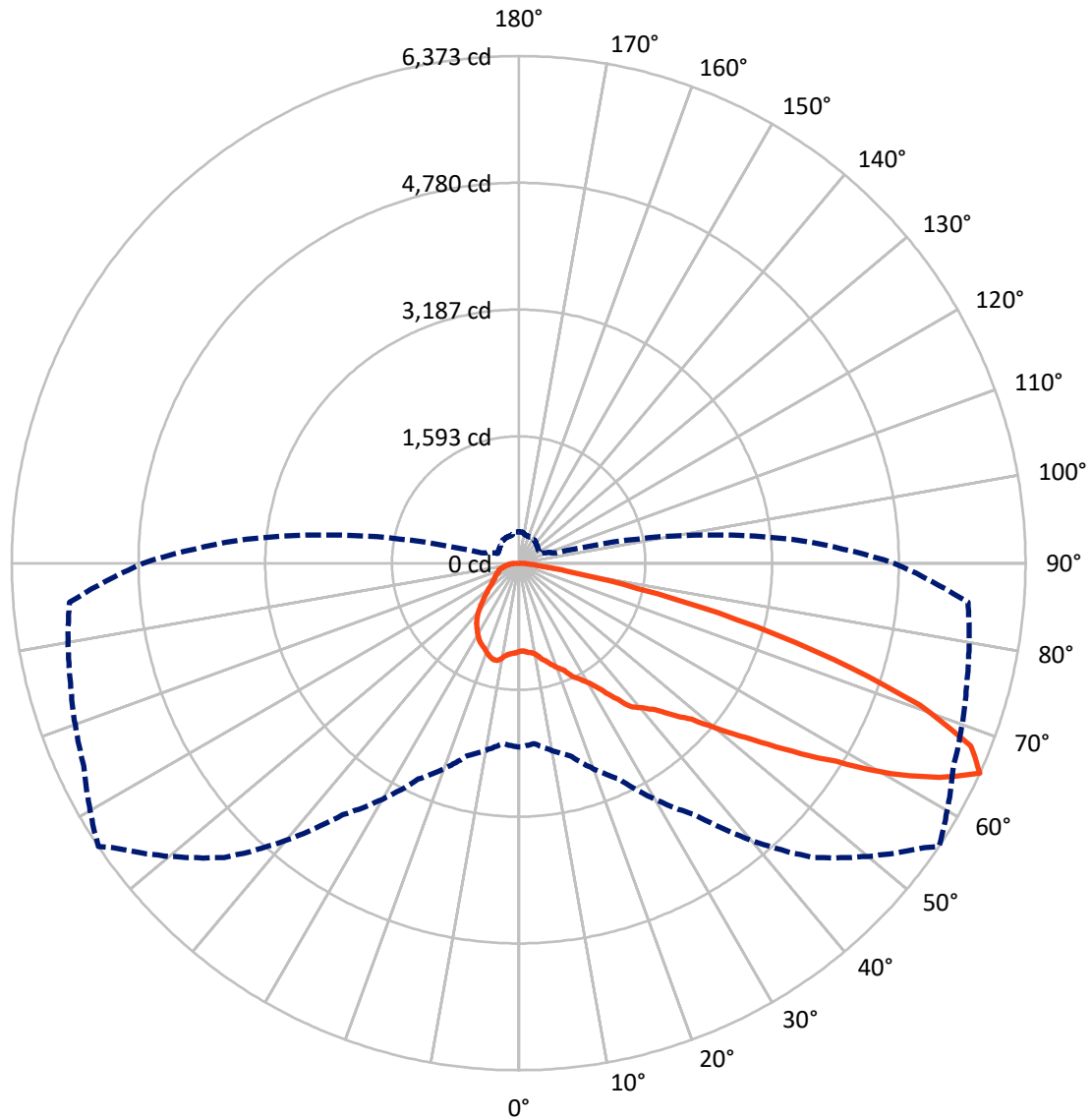
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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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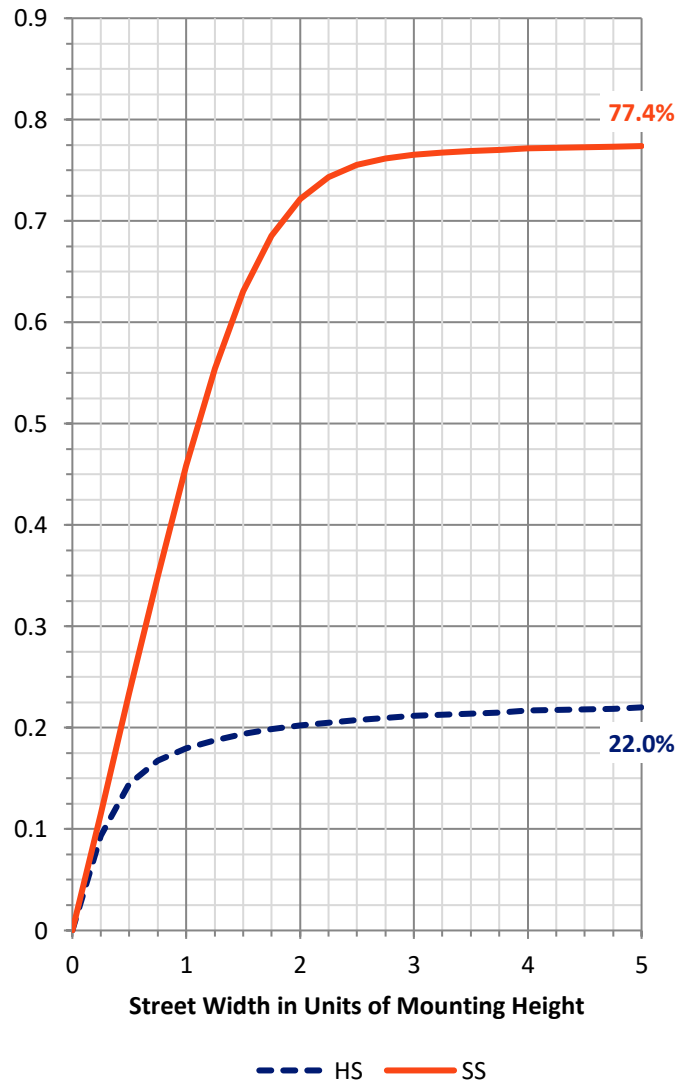
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2072.4	0.0	2072.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7168.2	0.0	7168.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	9240.6	0.0	9240.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.2
10°-20°	356.9	3.9
20°-30°	635.5	6.9
30°-40°	951.6	10.3
40°-50°	1409.9	15.3
50°-60°	2172.5	23.5
60°-70°	2459.5	26.6
70°-80°	1020.7	11.0
80°-90°	124.0	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°	9240.6	100.0
0°-180°	9240.6	100.0

Coefficient of Utilization

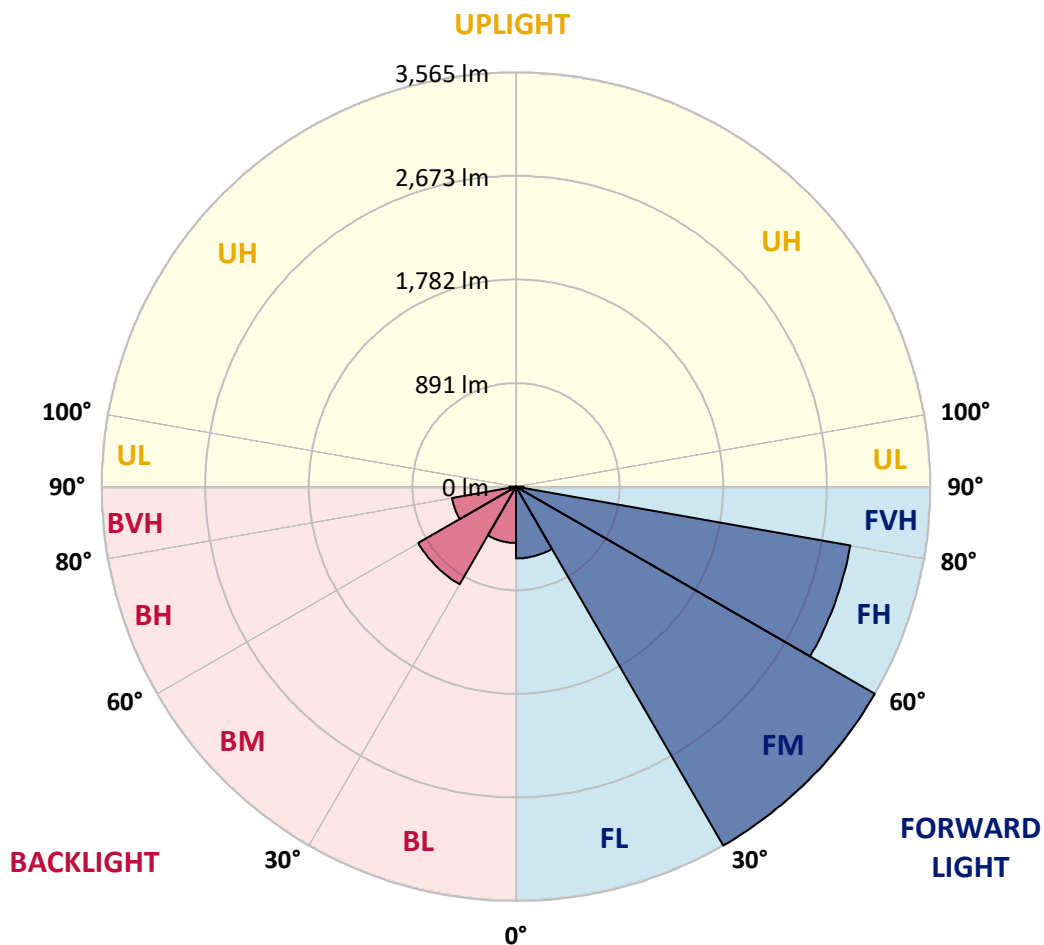


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.5	6.7			
FM (30°-60°)	3564.6	38.6			
FH (60°-80°)	2920.6	31.6			G2/5000
FVH (80°-90°)	65.4	0.7			G1/100
BL (0°-30°)	484.7	5.2	B1/500		
BM (30°-60°)	969.4	10.5	B1/1000		
BH (60°-80°)	559.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	58.6	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°	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1
2.5°	1080.1	1085.9	1082.1	1093.7	1103.3	1103.3	1111.1	1105.3	1113.0	1123.6
5°	1115.9	1092.7	1105.3	1111.1	1108.2	1113.0	1105.3	1124.6	1112.0	1132.3
7.5°	1124.6	1133.3	1143.9	1134.3	1143.0	1138.1	1139.1	1136.2	1129.4	1145.9
10°	1188.4	1175.9	1200.0	1185.5	1183.6	1181.7	1177.8	1163.3	1179.7	1180.7
12.5°	1261.9	1250.3	1249.3	1237.7	1253.2	1225.2	1231.0	1223.2	1226.1	1230.0
15°	1315.1	1310.3	1332.5	1319.0	1298.7	1286.1	1299.6	1278.4	1289.0	1287.1
17.5°	1420.5	1419.5	1403.1	1380.9	1369.3	1350.9	1348.0	1339.3	1347.0	1343.1
20°	1494.0	1504.6	1507.5	1481.4	1436.9	1416.6	1411.8	1405.0	1413.7	1410.8
22.5°	1606.2	1589.7	1602.3	1556.8	1540.4	1492.1	1474.7	1465.0	1506.6	1495.9
25°	1677.7	1695.1	1682.6	1667.1	1630.3	1570.4	1557.8	1579.1	1595.5	1583.9
27.5°	1839.2	1821.8	1810.2	1763.8	1739.6	1676.8	1662.3	1654.5	1658.4	1665.2
30°	1962.0	1971.7	1945.6	1912.7	1851.8	1788.0	1754.1	1747.3	1733.8	1722.2
32.5°	2137.0	2122.5	2107.1	2085.8	2033.6	1949.4	1916.6	1891.4	1850.8	1796.7
35°	2221.2	2262.7	2251.1	2194.1	2154.4	2122.5	2112.9	2074.2	2040.3	1955.2
37.5°	2361.4	2378.8	2362.3	2344.0	2325.6	2291.8	2280.2	2290.8	2224.1	2083.9
40°	2452.3	2489.0	2522.9	2471.6	2467.8	2474.5	2403.0	2390.4	2253.1	2179.6
42.5°	2637.9	2653.4	2660.2	2658.2	2680.5	2680.5	2544.1	2517.1	2419.4	2359.4
45°	2883.6	2896.1	2920.3	2937.7	2912.6	2925.1	2730.8	2720.1	2633.1	2621.5
47.5°	3096.3	3126.3	3180.4	3231.7	3264.5	3222.0	3009.3	2933.8	2911.6	2981.2
50°	3282.0	3246.2	3372.9	3425.1	3569.1	3639.7	3316.8	3286.8	3251.0	3384.5
52.5°	3300.3	3348.7	3527.6	3632.0	3928.9	4059.4	3693.9	3681.3	3637.8	3791.6
55°	3431.8	3426.0	3605.9	3832.2	4185.1	4404.6	4185.1	4177.4	4082.6	4228.6
57.5°	3409.6	3468.6	3610.7	3926.9	4416.2	4775.0	4754.7	4701.5	4569.0	4688.0
60°	3334.2	3349.6	3522.7	3924.0	4550.6	5155.0	5369.7	5380.3	5109.6	5204.3
62.5°	2906.8	2942.5	3162.0	3615.6	4454.9	5417.1	5970.2	5932.5	5715.9	5607.6
65°	2312.1	2276.3	2504.5	2994.8	3859.2	5231.4	6233.2	6373.4	6033.0	5834.8
67.5°	1417.6	1408.9	1628.4	2060.6	2887.4	4452.0	6023.4	6132.6	5945.0	5786.5
70°	730.1	707.8	845.1	1149.7	1815.0	3266.5	5242.0	5349.4	5528.3	5189.8
72.5°	340.4	335.5	409.0	565.7	924.4	1920.4	4059.4	4136.8	4513.9	4375.6
75°	200.2	203.1	244.6	295.9	450.6	905.1	2694.0	2843.9	3252.9	3153.3
77.5°	149.9	149.9	174.1	206.0	263.0	350.0	1329.6	1527.8	1902.1	1710.6
80°	110.2	112.2	133.4	154.7	182.8	180.8	528.0	618.9	872.2	745.5
82.5°	86.1	89.0	103.5	115.1	128.6	109.3	216.6	233.0	358.8	285.3
85°	60.0	61.9	81.2	78.3	78.3	60.9	89.9	94.8	142.1	135.4
87.5°	14.5	16.4	39.6	43.5	32.9	18.4	28.0	31.9	51.3	59.0
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°
1109.1	0°	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1	1109.1
1128.5	2.5°	1114.0	1117.8	1134.3	1125.6	1130.4	1110.1	1126.5	1113.0	1124.6	1118.8
1137.2	5°	1144.9	1136.2	1145.9	1139.1	1139.1	1146.8	1158.5	1149.7	1167.2	1159.4
1143.9	7.5°	1157.5	1158.5	1164.3	1165.2	1160.4	1184.6	1185.5	1182.6	1199.1	1195.2
1190.4	10°	1188.4	1189.4	1200.0	1205.8	1201.0	1209.7	1200.0	1192.3	1191.3	1187.5
1227.1	12.5°	1237.7	1247.4	1245.5	1250.3	1251.3	1214.5	1192.3	1154.6	1149.7	1154.6
1281.3	15°	1283.2	1279.3	1281.3	1290.9	1250.3	1191.3	1151.7	1119.8	1121.7	1122.7
1351.8	17.5°	1337.3	1340.2	1343.1	1298.7	1224.2	1154.6	1119.8	1119.8	1110.1	1114.0
1401.2	20°	1399.2	1387.6	1362.5	1299.6	1178.8	1112.0	1101.4	1101.4	1089.8	1082.1
1454.3	22.5°	1447.6	1424.4	1386.7	1269.7	1138.1	1095.6	1069.5	1051.1	1037.6	1022.1
1513.3	25°	1478.5	1466.0	1392.5	1238.7	1108.2	1052.1	1013.4	985.4	968.0	947.6
1559.8	27.5°	1525.9	1501.7	1408.9	1202.9	1075.3	1008.6	948.6	905.1	872.2	850.9
1630.3	30°	1589.7	1554.9	1397.3	1151.7	1025.0	933.1	862.6	806.5	768.8	751.3
1697.1	32.5°	1641.9	1596.5	1387.6	1105.3	968.9	856.8	763.0	705.9	684.6	662.4
1809.2	35°	1741.5	1651.6	1380.9	1079.2	918.6	780.4	681.7	632.4	605.3	572.5
1876.0	37.5°	1817.9	1747.3	1364.4	1025.0	853.8	705.9	619.8	575.4	534.7	499.9
2030.7	40°	1937.8	1880.8	1365.4	948.6	777.5	642.1	571.5	525.1	473.8	443.8
2259.8	42.5°	2163.2	2012.3	1371.2	887.7	691.4	589.9	528.0	472.9	421.6	396.5
2520.9	45°	2439.7	2193.1	1335.4	832.6	603.4	540.5	475.8	420.6	387.8	369.4
2875.8	47.5°	2757.8	2370.1	1287.1	729.1	529.9	488.3	427.4	395.5	371.3	360.7
3333.2	50°	3113.7	2623.4	1273.5	634.3	472.9	443.8	404.2	380.0	363.6	351.0
3848.6	52.5°	3572.1	2918.4	1246.4	536.7	423.5	408.1	395.5	379.1	364.6	353.9
4329.2	55°	4010.1	3245.2	1217.4	456.4	388.7	390.7	397.4	382.9	370.4	353.9
4867.8	57.5°	4503.3	3578.8	1110.1	397.4	362.6	382.0	395.5	379.1	366.5	353.9
5419.0	60°	4807.9	3766.4	900.3	346.2	339.4	365.5	383.9	366.5	353.0	357.8
5672.3	62.5°	4931.6	3667.8	678.8	314.3	323.0	343.3	365.5	358.8	349.1	367.5
5669.4	65°	4720.8	3440.5	485.4	287.2	300.7	321.0	349.1	356.8	359.7	395.5
5207.2	67.5°	4200.6	2995.7	356.8	265.0	277.5	307.5	360.7	373.3	371.3	415.8
4369.8	70°	3361.2	2343.0	278.5	246.6	268.8	318.1	377.1	377.1	363.6	415.8
3333.2	72.5°	2445.5	1651.6	239.8	225.3	246.6	292.0	375.2	374.2	356.8	380.0
2122.5	75°	1480.5	961.2	211.8	204.0	211.8	250.4	358.8	353.0	328.8	326.8
1021.1	77.5°	737.8	483.5	173.1	180.8	184.7	209.8	315.2	323.9	291.1	283.3
403.2	80°	311.4	210.8	144.1	155.7	155.7	177.0	262.1	267.9	241.7	227.2
159.6	82.5°	142.1	120.9	122.8	135.4	126.7	137.3	207.9	214.7	196.3	172.1
67.7	85°	60.0	68.7	93.8	106.4	93.8	89.0	143.1	150.8	127.6	106.4
29.0	87.5°	27.1	37.7	59.0	77.4	47.4	41.6	76.4	79.3	63.8	47.4
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>
1109.1
1108.2
1148.8
1189.4
1187.5
1156.5
1136.2
1114.9
1070.5
1013.4
951.5
860.6
761.0
661.4
569.6
500.9
446.7
398.4
373.3
358.8
353.0
353.0
353.0
353.0
353.9
362.6
395.5
418.7
407.1
366.5
323.0
278.5
222.4
168.3
107.3
44.5
0.0

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