

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: P477493

Luminaire Tested: **IFLD-S-SA3A-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477493
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

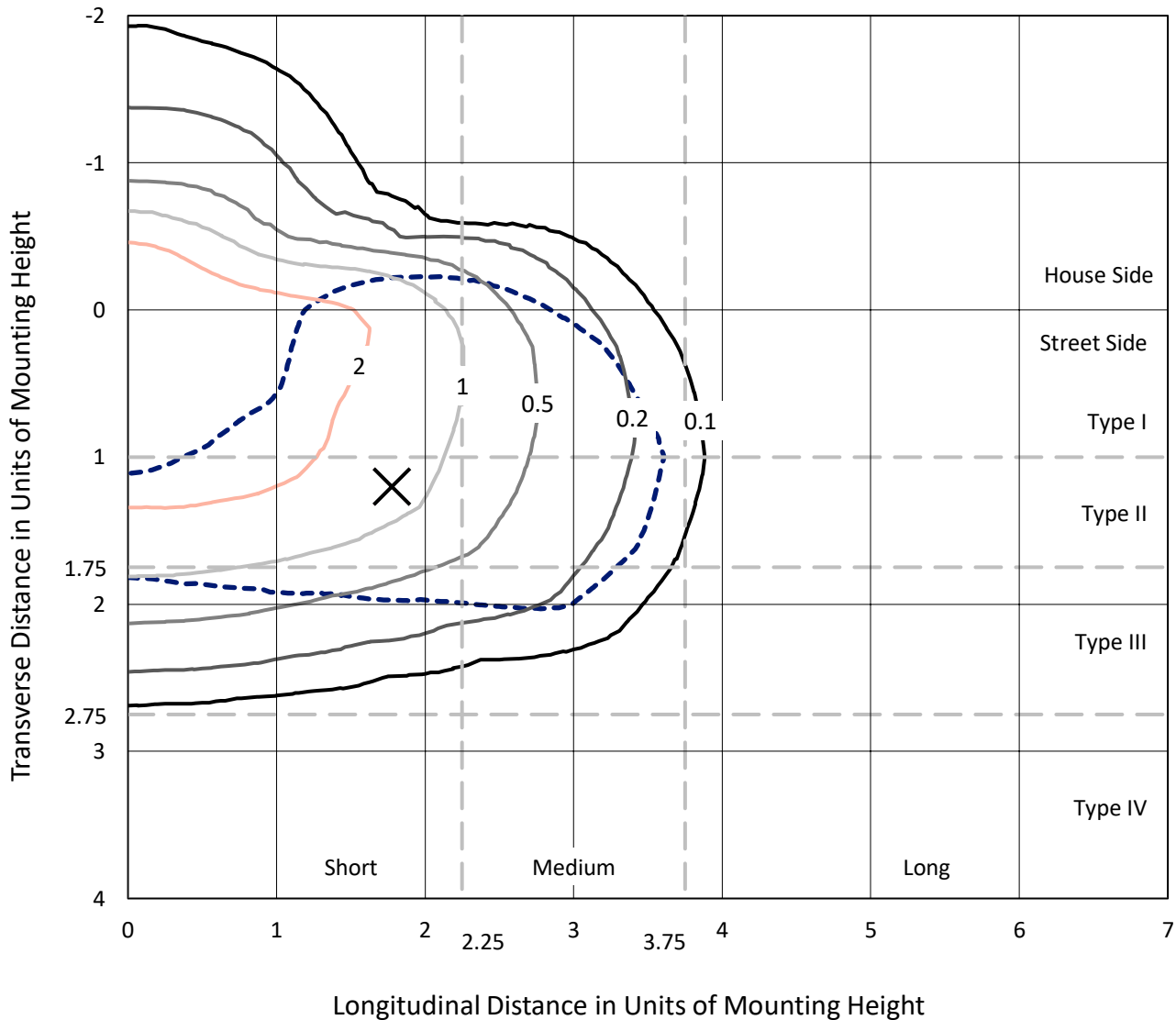
Lumens per Lamp: N/A
Luminaire Lumens: 10301.2 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

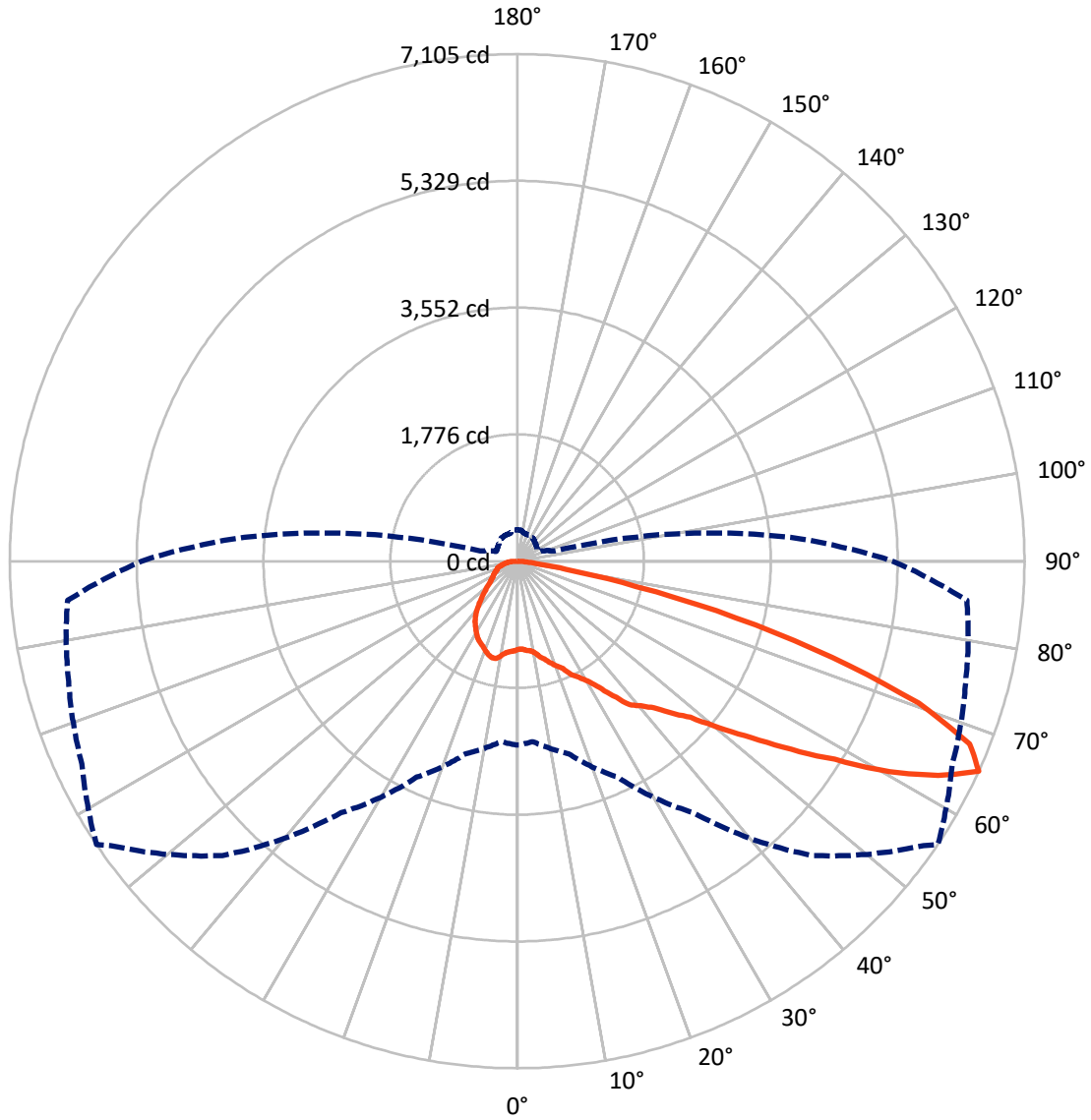
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 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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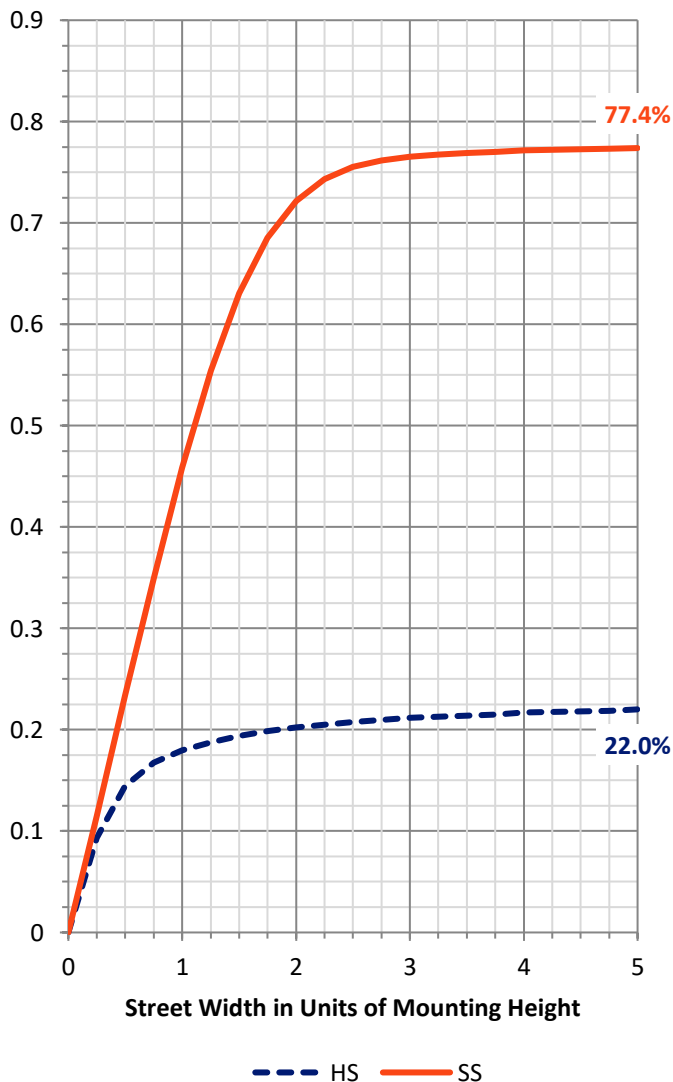
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2310.2	0.0	2310.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7991.0	0.0	7991.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	10301.2	0.0	10301.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.2
10°-20°	397.9	3.9
20°-30°	708.4	6.9
30°-40°	1060.8	10.3
40°-50°	1571.8	15.3
50°-60°	2421.9	23.5
60°-70°	2741.8	26.6
70°-80°	1137.9	11.0
80°-90°	138.2	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°	10301.2	100.0
0°-180°	10301.2	100.0

Coefficient of Utilization

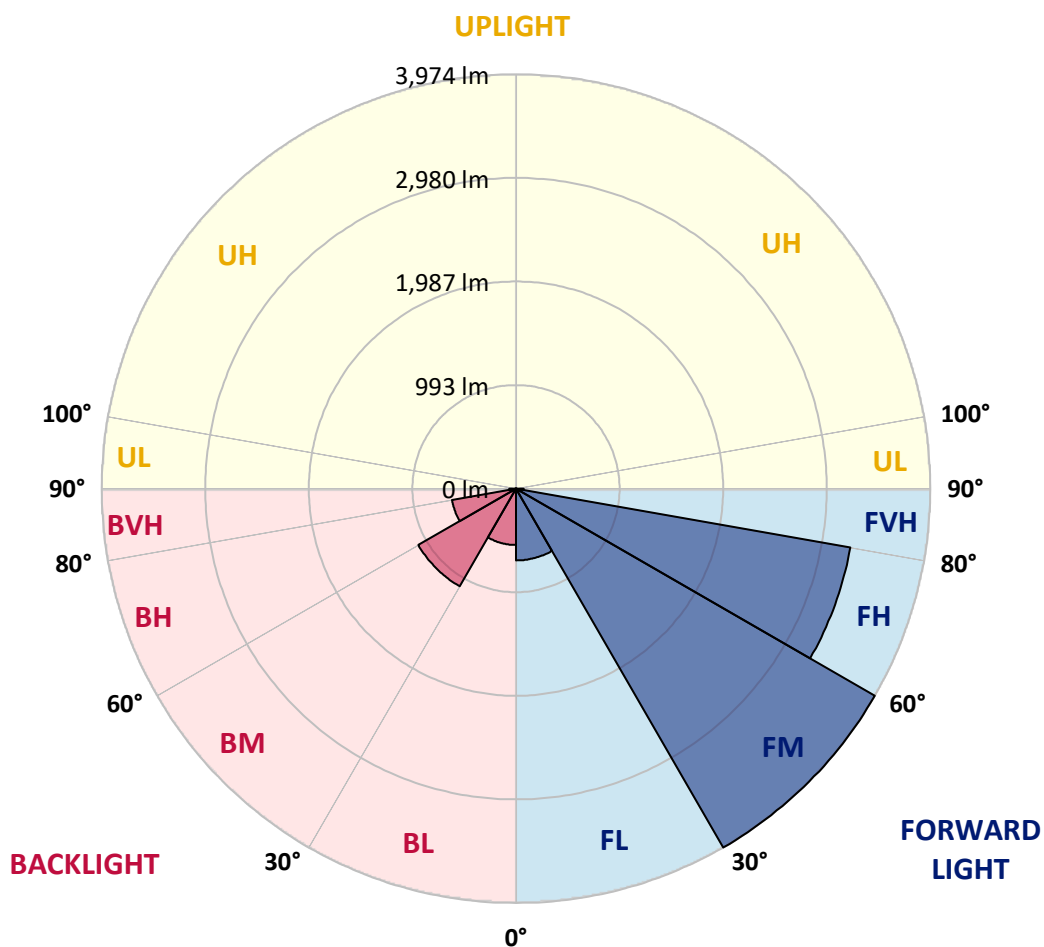


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	688.4	6.7			
FM (30°-60°)	3973.8	38.6			
FH (60°-80°)	3255.9	31.6			G2/5000
FVH (80°-90°)	72.9	0.7			G1/100
BL (0°-30°)	540.4	5.2	B2/1000		
BM (30°-60°)	1080.7	10.5	B2/2500		
BH (60°-80°)	623.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	65.3	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°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
2.5°	1204.1	1210.6	1206.3	1219.2	1230.0	1230.0	1238.6	1232.1	1240.8	1252.6
5°	1244.0	1218.1	1232.1	1238.6	1235.4	1240.8	1232.1	1253.7	1239.7	1262.3
7.5°	1253.7	1263.4	1275.2	1264.5	1274.2	1268.8	1269.9	1266.6	1259.1	1277.4
10°	1324.8	1310.8	1337.8	1321.6	1319.4	1317.3	1313.0	1296.8	1315.1	1316.2
12.5°	1406.8	1393.8	1392.7	1379.8	1397.1	1365.8	1372.3	1363.6	1366.9	1371.2
15°	1466.0	1460.7	1485.5	1470.4	1447.7	1433.7	1448.8	1425.1	1436.9	1434.8
17.5°	1583.5	1582.5	1564.1	1539.3	1526.4	1505.9	1502.7	1493.0	1501.6	1497.3
20°	1665.5	1677.3	1680.6	1651.5	1601.9	1579.2	1573.8	1566.3	1576.0	1572.8
22.5°	1790.5	1772.2	1786.2	1735.5	1717.2	1663.3	1643.9	1633.1	1679.5	1667.6
25°	1870.3	1889.7	1875.7	1858.4	1817.5	1750.6	1736.6	1760.3	1778.7	1765.7
27.5°	2050.3	2030.9	2018.0	1966.2	1939.3	1869.2	1853.0	1844.4	1848.7	1856.3
30°	2187.2	2198.0	2168.9	2132.2	2064.3	1993.2	1955.4	1947.9	1932.8	1919.9
32.5°	2382.3	2366.2	2348.9	2325.2	2267.0	2173.2	2136.5	2108.5	2063.2	2002.9
35°	2476.1	2522.5	2509.5	2445.9	2401.7	2366.2	2355.4	2312.3	2274.5	2179.7
37.5°	2632.4	2651.8	2633.5	2613.0	2592.5	2554.8	2541.9	2553.7	2479.3	2323.0
40°	2733.7	2774.7	2812.4	2755.3	2751.0	2758.5	2678.8	2664.8	2511.7	2429.8
42.5°	2940.7	2958.0	2965.5	2963.4	2988.1	2988.1	2836.2	2806.0	2697.1	2630.3
45°	3214.5	3228.5	3255.5	3274.9	3246.9	3260.9	3044.2	3032.3	2935.3	2922.4
47.5°	3451.7	3485.1	3545.5	3602.6	3639.2	3591.8	3354.7	3270.6	3245.8	3323.4
50°	3658.7	3618.8	3760.0	3818.2	3978.8	4057.5	3697.5	3664.0	3624.2	3772.9
52.5°	3679.1	3733.0	3932.5	4048.9	4379.8	4525.3	4117.9	4103.9	4055.3	4226.7
55°	3825.7	3819.3	4019.8	4272.0	4665.5	4910.2	4665.5	4656.9	4551.2	4714.0
57.5°	3800.9	3866.7	4025.2	4377.7	4923.1	5323.0	5300.4	5241.1	5093.4	5226.0
60°	3716.9	3734.1	3927.1	4374.4	5073.0	5746.7	5986.0	5997.9	5696.0	5801.7
62.5°	3240.4	3280.3	3525.0	4030.6	4966.2	6038.8	6655.4	6613.4	6371.9	6251.2
65°	2577.4	2537.6	2792.0	3338.5	4302.2	5831.9	6948.6	7104.9	6725.5	6504.5
67.5°	1580.3	1570.6	1815.3	2297.2	3218.8	4963.0	6714.7	6836.5	6627.4	6450.6
70°	813.9	789.1	942.2	1281.7	2023.4	3641.4	5843.7	5963.4	6162.8	5785.5
72.5°	379.4	374.1	456.0	630.6	1030.5	2140.9	4525.3	4611.6	5032.0	4877.8
75°	223.1	226.4	272.7	329.9	502.3	1009.0	3003.2	3170.3	3626.3	3515.3
77.5°	167.1	167.1	194.0	229.6	293.2	390.2	1482.2	1703.2	2120.4	1906.9
80°	122.9	125.0	148.8	172.5	203.7	201.6	588.6	689.9	972.3	831.1
82.5°	95.9	99.2	115.3	128.3	143.4	121.8	241.5	259.8	399.9	318.0
85°	66.8	69.0	90.5	87.3	87.3	67.9	100.3	105.6	158.5	150.9
87.5°	16.2	18.3	44.2	48.5	36.7	20.5	31.3	35.6	57.1	65.8
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°
1236.4	0°	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4	1236.4
1258.0	2.5°	1241.8	1246.1	1264.5	1254.8	1260.2	1237.5	1255.8	1240.8	1253.7	1247.2
1267.7	5°	1276.3	1266.6	1277.4	1269.9	1269.9	1278.5	1291.4	1281.7	1301.1	1292.5
1275.2	7.5°	1290.3	1291.4	1297.9	1299.0	1293.6	1320.5	1321.6	1318.4	1336.7	1332.4
1327.0	10°	1324.8	1325.9	1337.8	1344.2	1338.8	1348.5	1337.8	1329.1	1328.1	1323.8
1368.0	12.5°	1379.8	1390.6	1388.4	1393.8	1394.9	1353.9	1329.1	1287.1	1281.7	1287.1
1428.3	15°	1430.5	1426.2	1428.3	1439.1	1393.8	1328.1	1283.9	1248.3	1250.5	1251.5
1507.0	17.5°	1490.8	1494.1	1497.3	1447.7	1364.7	1287.1	1248.3	1248.3	1237.5	1241.8
1562.0	20°	1559.8	1546.9	1518.9	1448.8	1314.1	1239.7	1227.8	1227.8	1214.9	1206.3
1621.3	22.5°	1613.7	1587.9	1545.8	1415.4	1268.8	1221.3	1192.2	1171.8	1156.7	1139.4
1687.0	25°	1648.2	1634.2	1552.3	1380.9	1235.4	1172.8	1129.7	1098.5	1079.1	1056.4
1738.8	27.5°	1701.0	1674.1	1570.6	1341.0	1198.7	1124.3	1057.5	1009.0	972.3	948.6
1817.5	30°	1772.2	1733.4	1557.7	1283.9	1142.7	1040.2	961.6	899.0	857.0	837.6
1891.8	32.5°	1830.4	1779.7	1546.9	1232.1	1080.1	955.1	850.5	786.9	763.2	738.4
2016.9	35°	1941.4	1841.2	1539.3	1203.0	1024.1	869.9	760.0	705.0	674.8	638.2
2091.3	37.5°	2026.6	1947.9	1521.0	1142.7	951.9	786.9	691.0	641.4	596.1	557.3
2263.7	40°	2160.3	2096.7	1522.1	1057.5	866.7	715.8	637.1	585.3	528.2	494.8
2519.2	42.5°	2411.4	2243.3	1528.6	989.6	770.8	657.6	588.6	527.1	470.0	442.0
2810.3	45°	2719.7	2444.8	1488.7	928.1	672.7	602.6	530.4	468.9	432.3	411.8
3205.9	47.5°	3074.4	2642.1	1434.8	812.8	590.7	544.4	476.5	440.9	413.9	402.1
3715.8	50°	3471.1	2924.5	1419.7	707.2	527.1	494.8	450.6	423.6	405.3	391.3
4290.3	52.5°	3982.0	3253.3	1389.5	598.3	472.2	454.9	440.9	422.6	406.4	394.5
4826.1	55°	4470.4	3617.7	1357.2	508.8	433.3	435.5	443.0	426.9	412.9	394.5
5426.5	57.5°	5020.1	3989.6	1237.5	443.0	404.2	425.8	440.9	422.6	408.6	394.5
6041.0	60°	5359.7	4198.7	1003.6	385.9	378.4	407.5	428.0	408.6	393.5	398.9
6323.4	62.5°	5497.7	4088.8	756.7	350.3	360.0	382.7	407.5	399.9	389.1	409.6
6320.2	65°	5262.7	3835.4	541.1	320.2	335.3	357.9	389.1	397.8	401.0	440.9
5804.9	67.5°	4682.7	3339.6	397.8	295.4	309.4	342.8	402.1	416.1	413.9	463.5
4871.4	70°	3747.0	2611.9	310.5	274.9	299.7	354.7	420.4	420.4	405.3	463.5
3715.8	72.5°	2726.2	1841.2	267.3	251.2	274.9	325.5	418.3	417.2	397.8	423.6
2366.2	75°	1650.4	1071.5	236.1	227.5	236.1	279.2	399.9	393.5	366.5	364.4
1138.3	77.5°	822.5	539.0	193.0	201.6	205.9	233.9	351.4	361.1	324.5	315.8
449.5	80°	347.1	235.0	160.6	173.6	173.6	197.3	292.1	298.6	269.5	253.3
177.9	82.5°	158.5	134.7	136.9	150.9	141.2	153.1	231.8	239.3	218.8	191.9
75.5	85°	66.8	76.5	104.6	118.6	104.6	99.2	159.5	168.2	142.3	118.6
32.3	87.5°	30.2	42.0	65.8	86.2	52.8	46.4	85.2	88.4	71.1	52.8
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>
1236.4
1235.4
1280.6
1325.9
1323.8
1289.3
1266.6
1242.9
1193.3
1129.7
1060.7
959.4
848.4
737.3
634.9
558.4
498.0
444.1
416.1
399.9
393.5
393.5
393.5
393.5
394.5
404.2
440.9
466.8
453.8
408.6
360.0
310.5
247.9
187.6
119.7
49.6
0.0

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