

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: P477490

Luminaire Tested: **IFLD-S-SA2C-827-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477490  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-827-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

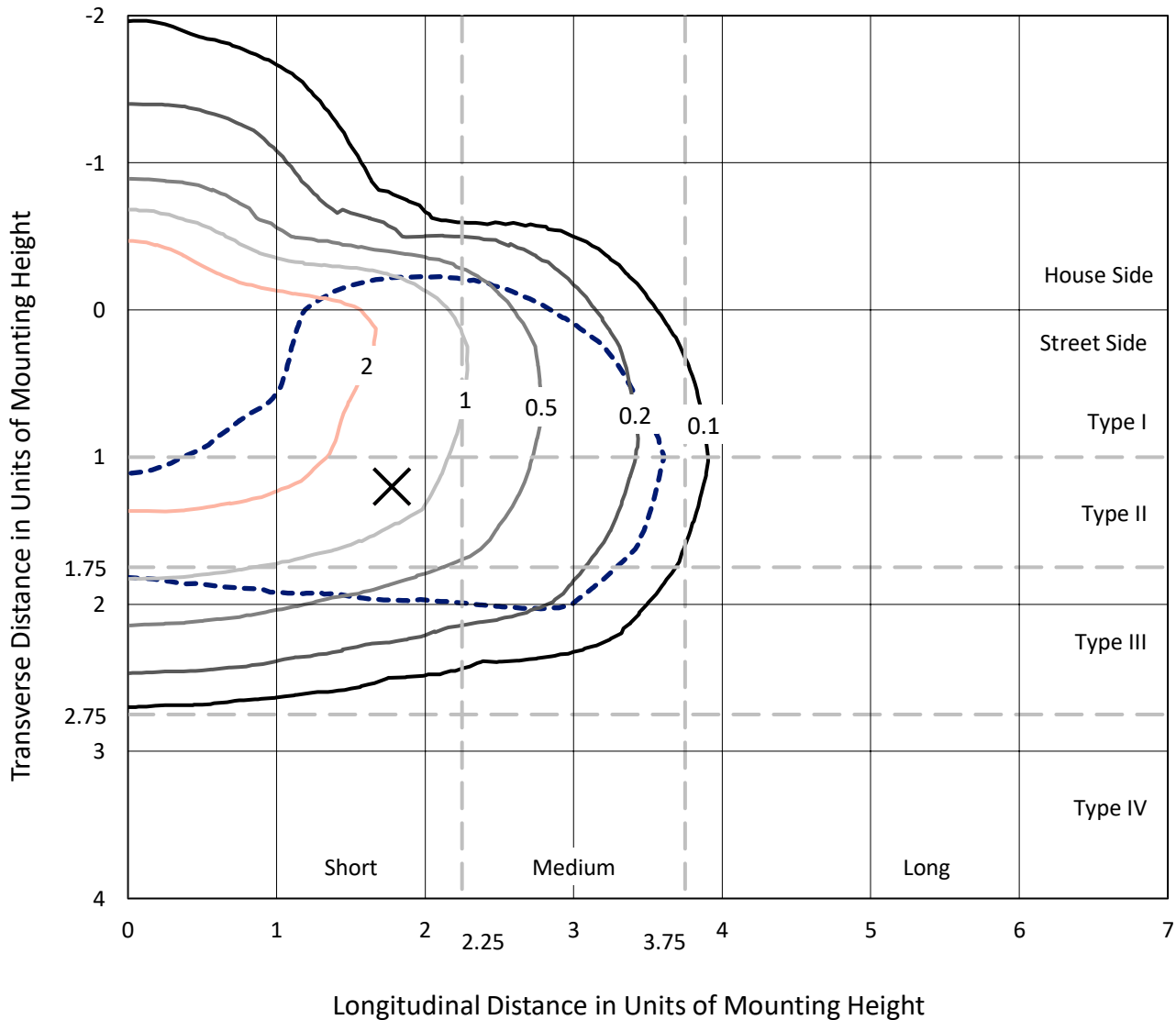
Lumens per Lamp: N/A  
Luminaire Lumens: 10641.8 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2  
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

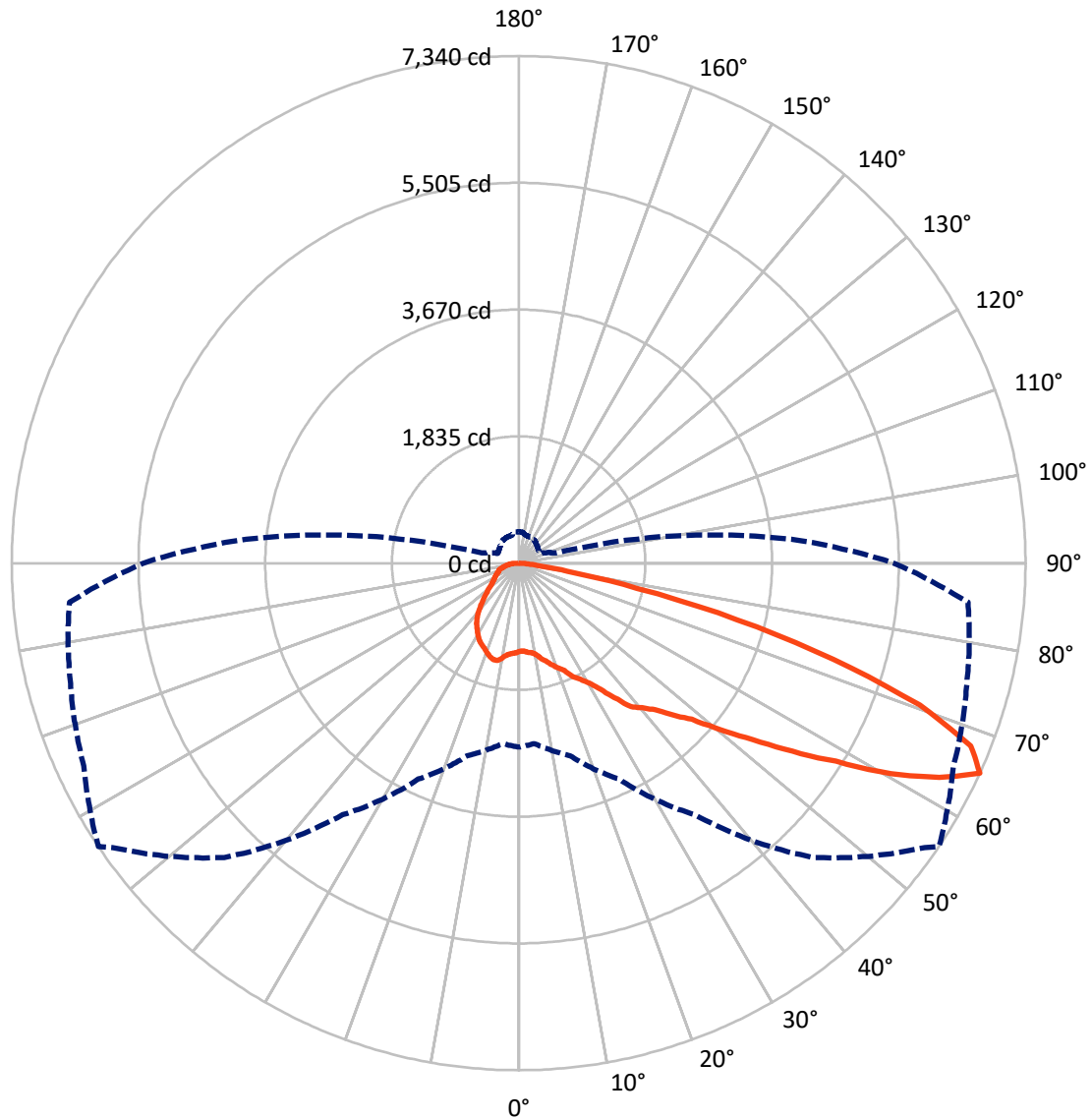
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 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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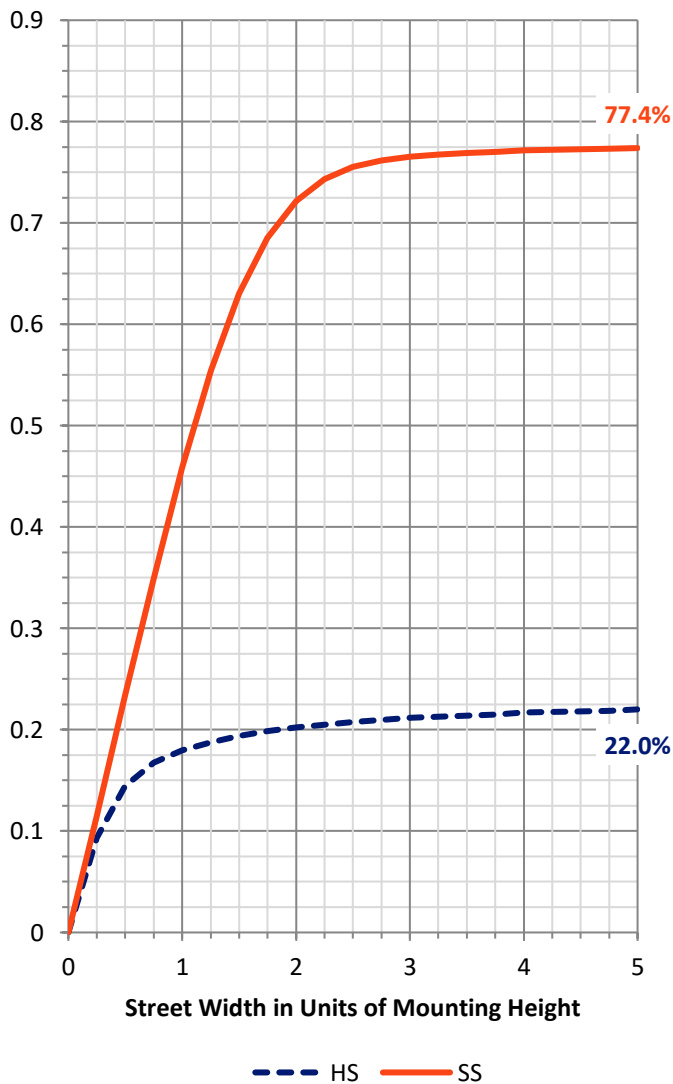
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2386.6	0.0	2386.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	8255.2	0.0	8255.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	10641.8	0.0	10641.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	1.2
10°-20°	411.0	3.9
20°-30°	731.8	6.9
30°-40°	1095.9	10.3
40°-50°	1623.7	15.3
50°-60°	2501.9	23.5
60°-70°	2832.5	26.6
70°-80°	1175.5	11.0
80°-90°	142.8	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°	10641.8	100.0
0°-180°	10641.8	100.0

**Coefficient of Utilization**



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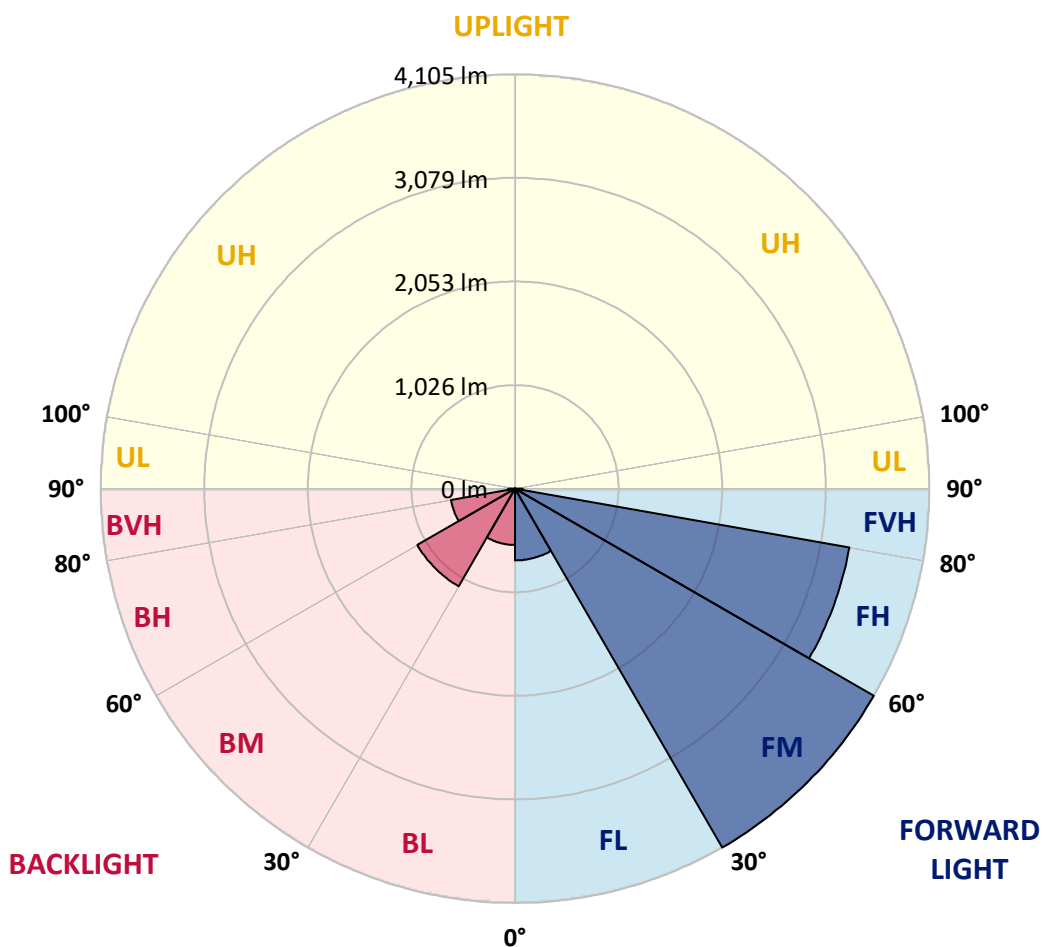
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.2	6.7			
FM (30°-60°)	4105.1	38.6			
FH (60°-80°)	3363.5	31.6			G2/5000
FVH (80°-90°)	75.3	0.7			G1/100
BL (0°-30°)	558.2	5.2	B2/1000		
BM (30°-60°)	1116.4	10.5	B2/2500		
BH (60°-80°)	644.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	67.5	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°	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3
2.5°	1243.9	1250.6	1246.1	1259.5	1270.6	1270.6	1279.5	1272.9	1281.8	1294.0
5°	1285.1	1258.4	1272.9	1279.5	1276.2	1281.8	1272.9	1295.1	1280.7	1304.0
7.5°	1295.1	1305.2	1317.4	1306.3	1316.3	1310.7	1311.8	1308.5	1300.7	1319.6
10°	1368.6	1354.2	1382.0	1365.3	1363.1	1360.8	1356.4	1339.7	1358.6	1359.7
12.5°	1453.3	1439.9	1438.8	1425.4	1443.2	1411.0	1417.6	1408.7	1412.1	1416.5
15°	1514.5	1508.9	1534.6	1519.0	1495.6	1481.1	1496.7	1472.2	1484.4	1482.2
17.5°	1635.9	1634.8	1615.9	1590.2	1576.9	1555.7	1552.4	1542.4	1551.3	1546.8
20°	1720.5	1732.8	1736.1	1706.1	1654.8	1631.4	1625.9	1618.1	1628.1	1624.8
22.5°	1849.7	1830.8	1845.3	1792.9	1774.0	1718.3	1698.3	1687.1	1735.0	1722.8
25°	1932.1	1952.2	1937.7	1919.9	1877.6	1808.5	1794.0	1818.5	1837.5	1824.1
27.5°	2118.1	2098.1	2084.7	2031.2	2003.4	1931.0	1914.3	1905.4	1909.9	1917.6
30°	2259.5	2270.7	2240.6	2202.7	2132.6	2059.1	2020.1	2012.3	1996.7	1983.3
32.5°	2461.1	2444.4	2426.6	2402.1	2341.9	2245.0	2207.2	2178.2	2131.5	2069.1
35°	2558.0	2605.9	2592.5	2526.8	2481.1	2444.4	2433.2	2388.7	2349.7	2251.7
37.5°	2719.4	2739.5	2720.6	2699.4	2678.2	2639.3	2625.9	2638.2	2561.3	2399.8
40°	2824.1	2866.4	2905.4	2846.4	2841.9	2849.7	2767.3	2752.9	2594.7	2510.1
42.5°	3037.9	3055.8	3063.6	3061.3	3086.9	3086.9	2929.9	2898.7	2786.3	2717.2
45°	3320.8	3335.3	3363.1	3383.2	3354.2	3368.7	3144.8	3132.6	3032.4	3019.0
47.5°	3565.8	3600.3	3662.7	3721.7	3759.6	3710.6	3465.6	3378.7	3353.1	3433.3
50°	3779.6	3738.4	3884.3	3944.4	4110.4	4191.6	3819.7	3785.2	3744.0	3897.7
52.5°	3800.8	3856.5	4062.5	4182.7	4524.6	4675.0	4254.0	4239.5	4189.4	4366.5
55°	3952.2	3945.5	4152.7	4413.3	4819.7	5072.5	4819.7	4810.8	4701.7	4869.8
57.5°	3926.6	3994.5	4158.2	4522.4	5085.9	5499.0	5475.6	5414.4	5261.8	5398.8
60°	3839.7	3857.6	4056.9	4519.1	5240.7	5936.7	6183.9	6196.2	5884.3	5993.5
62.5°	3347.5	3388.7	3641.5	4163.8	5130.4	6238.5	6875.5	6832.0	6582.6	6457.9
65°	2662.7	2621.5	2884.3	3448.9	4444.4	6024.7	7178.4	7339.8	6947.8	6719.6
67.5°	1632.6	1622.5	1875.3	2373.1	3325.3	5127.1	6936.7	7062.5	6846.5	6663.9
70°	840.8	815.2	973.3	1324.1	2090.3	3761.8	6036.9	6160.5	6366.5	5976.8
72.5°	392.0	386.4	471.1	651.5	1064.6	2211.6	4675.0	4764.0	5198.4	5039.1
75°	230.5	233.9	281.7	340.8	518.9	1042.3	3102.5	3275.1	3746.2	3631.5
77.5°	172.6	172.6	200.5	237.2	302.9	403.1	1531.2	1759.5	2190.5	1970.0
80°	127.0	129.2	153.7	178.2	210.5	208.2	608.0	712.7	1004.5	858.6
82.5°	99.1	102.5	119.2	132.5	148.1	125.8	249.4	268.4	413.2	328.5
85°	69.0	71.3	93.5	90.2	90.2	70.2	103.6	109.1	163.7	155.9
87.5°	16.7	18.9	45.7	50.1	37.9	21.2	32.3	36.7	59.0	67.9
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°
1277.3	0°	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3	1277.3
1299.6	2.5°	1282.9	1287.3	1306.3	1296.2	1301.8	1278.4	1297.4	1281.8	1295.1	1288.5
1309.6	5°	1318.5	1308.5	1319.6	1311.8	1311.8	1320.7	1334.1	1324.1	1344.1	1335.2
1317.4	7.5°	1333.0	1334.1	1340.8	1341.9	1336.3	1364.2	1365.3	1362.0	1380.9	1376.4
1370.9	10°	1368.6	1369.7	1382.0	1388.7	1383.1	1393.1	1382.0	1373.1	1372.0	1367.5
1413.2	12.5°	1425.4	1436.6	1434.3	1439.9	1441.0	1398.7	1373.1	1329.7	1324.1	1329.7
1475.5	15°	1477.8	1473.3	1475.5	1486.7	1439.9	1372.0	1326.3	1289.6	1291.8	1292.9
1556.8	17.5°	1540.1	1543.5	1546.8	1495.6	1409.8	1329.7	1289.6	1289.6	1278.4	1282.9
1613.6	20°	1611.4	1598.0	1569.1	1496.7	1357.5	1280.7	1268.4	1268.4	1255.0	1246.1
1674.9	22.5°	1667.1	1640.4	1596.9	1462.2	1310.7	1261.7	1231.7	1210.5	1194.9	1177.1
1742.8	25°	1702.7	1688.2	1603.6	1426.5	1276.2	1211.6	1167.1	1134.8	1114.7	1091.3
1796.3	27.5°	1757.3	1729.4	1622.5	1385.3	1238.3	1161.5	1092.5	1042.3	1004.5	980.0
1877.6	30°	1830.8	1790.7	1609.2	1326.3	1180.4	1074.6	993.3	928.8	885.3	865.3
1954.4	32.5°	1890.9	1838.6	1598.0	1272.9	1115.8	986.7	878.6	812.9	788.4	762.8
2083.6	35°	2005.6	1902.1	1590.2	1242.8	1057.9	898.7	785.1	728.3	697.1	659.3
2160.4	37.5°	2093.6	2012.3	1571.3	1180.4	983.3	812.9	713.8	662.6	615.8	575.7
2338.6	40°	2231.7	2166.0	1572.4	1092.5	895.3	739.4	658.1	604.7	545.7	511.1
2602.5	42.5°	2491.2	2317.4	1579.1	1022.3	796.2	679.3	608.0	544.6	485.5	456.6
2903.2	45°	2809.7	2525.7	1537.9	958.8	694.9	622.5	547.9	484.4	446.6	425.4
3311.9	47.5°	3176.0	2729.5	1482.2	839.7	610.3	562.4	492.2	455.5	427.6	415.4
3838.6	50°	3585.8	3021.2	1466.6	730.5	544.6	511.1	465.5	437.7	418.7	404.2
4432.2	52.5°	4113.7	3360.9	1435.5	618.1	487.8	469.9	455.5	436.5	419.8	407.6
4985.7	55°	4618.2	3737.3	1402.0	525.6	447.7	449.9	457.7	441.0	426.5	407.6
5605.9	57.5°	5186.1	4121.5	1278.4	457.7	417.6	439.9	455.5	436.5	422.1	407.6
6240.7	60°	5536.9	4337.5	1036.8	398.7	390.9	420.9	442.1	422.1	406.5	412.0
6532.5	62.5°	5679.4	4223.9	781.8	361.9	371.9	395.3	420.9	413.2	402.0	423.2
6529.1	65°	5436.7	3962.2	559.0	330.7	346.3	369.7	402.0	410.9	414.3	455.5
5996.8	67.5°	4837.5	3450.0	410.9	305.1	319.6	354.1	415.4	429.9	427.6	478.9
5032.4	70°	3870.9	2698.3	320.7	284.0	309.6	366.4	434.3	434.3	418.7	478.9
3838.6	72.5°	2816.3	1902.1	276.2	259.5	284.0	336.3	432.1	431.0	410.9	437.7
2444.4	75°	1704.9	1106.9	243.9	235.0	243.9	288.4	413.2	406.5	378.6	376.4
1176.0	77.5°	849.7	556.8	199.3	208.2	212.7	241.7	363.0	373.1	335.2	326.3
464.4	80°	358.6	242.8	165.9	179.3	179.3	203.8	301.8	308.5	278.4	261.7
183.7	82.5°	163.7	139.2	141.4	155.9	145.9	158.1	239.4	247.2	226.1	198.2
78.0	85°	69.0	79.1	108.0	122.5	108.0	102.5	164.8	173.7	147.0	122.5
33.4	87.5°	31.2	43.4	67.9	89.1	54.6	47.9	88.0	91.3	73.5	54.6
0.0	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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<u>180°</u>
1277.3
1276.2
1323.0
1369.7
1367.5
1331.9
1308.5
1284.0
1232.8
1167.1
1095.8
991.1
876.4
761.7
655.9
576.9
514.5
458.8
429.9
413.2
406.5
406.5
406.5
406.5
407.6
417.6
455.5
482.2
468.8
422.1
371.9
320.7
256.1
193.8
123.6
51.2
0.0

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