

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: P477217

Luminaire Tested: **IFLD-S-SA2C-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477217  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-722-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

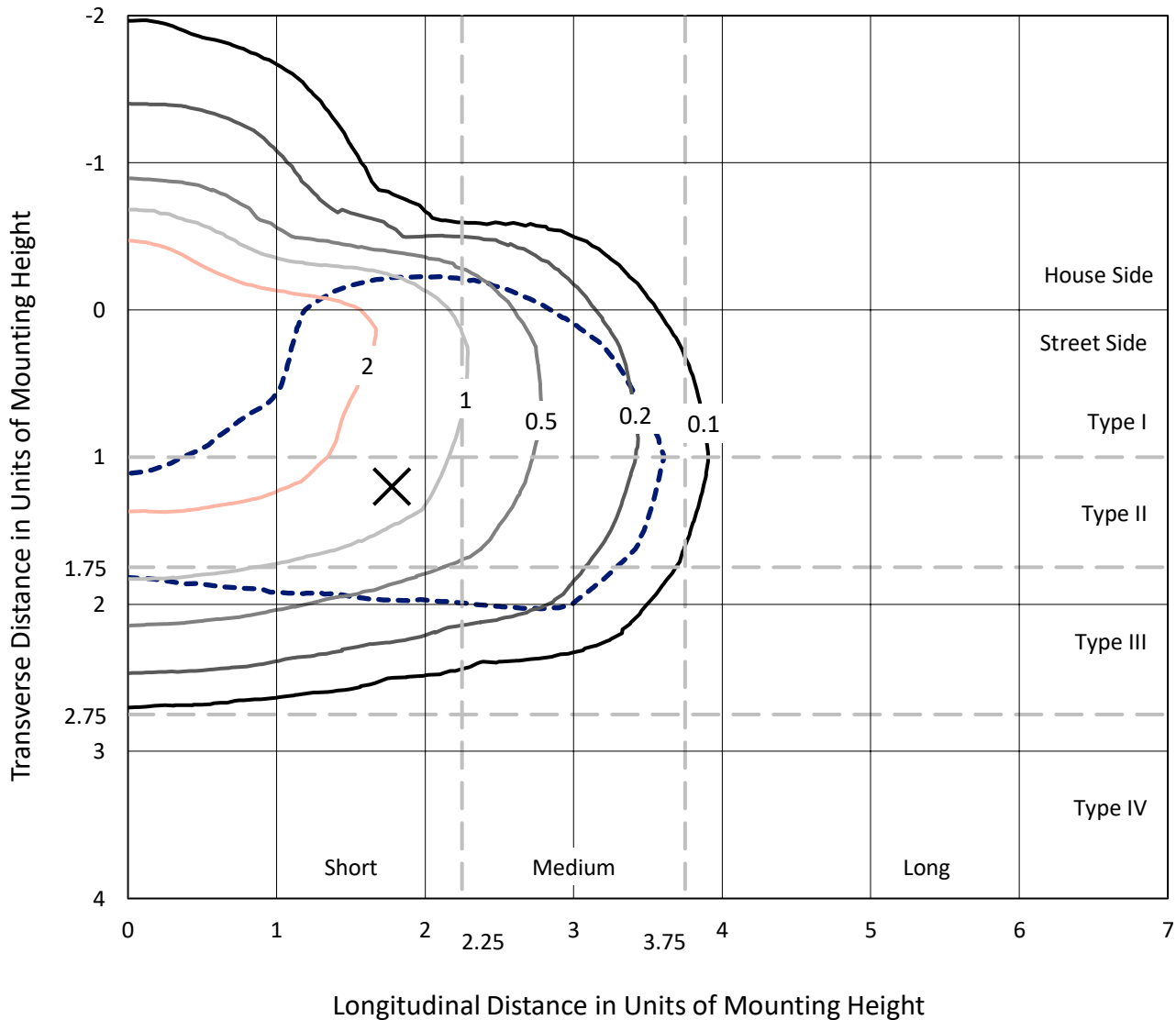
Lumens per Lamp: N/A  
Luminaire Lumens: 10663.5 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

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

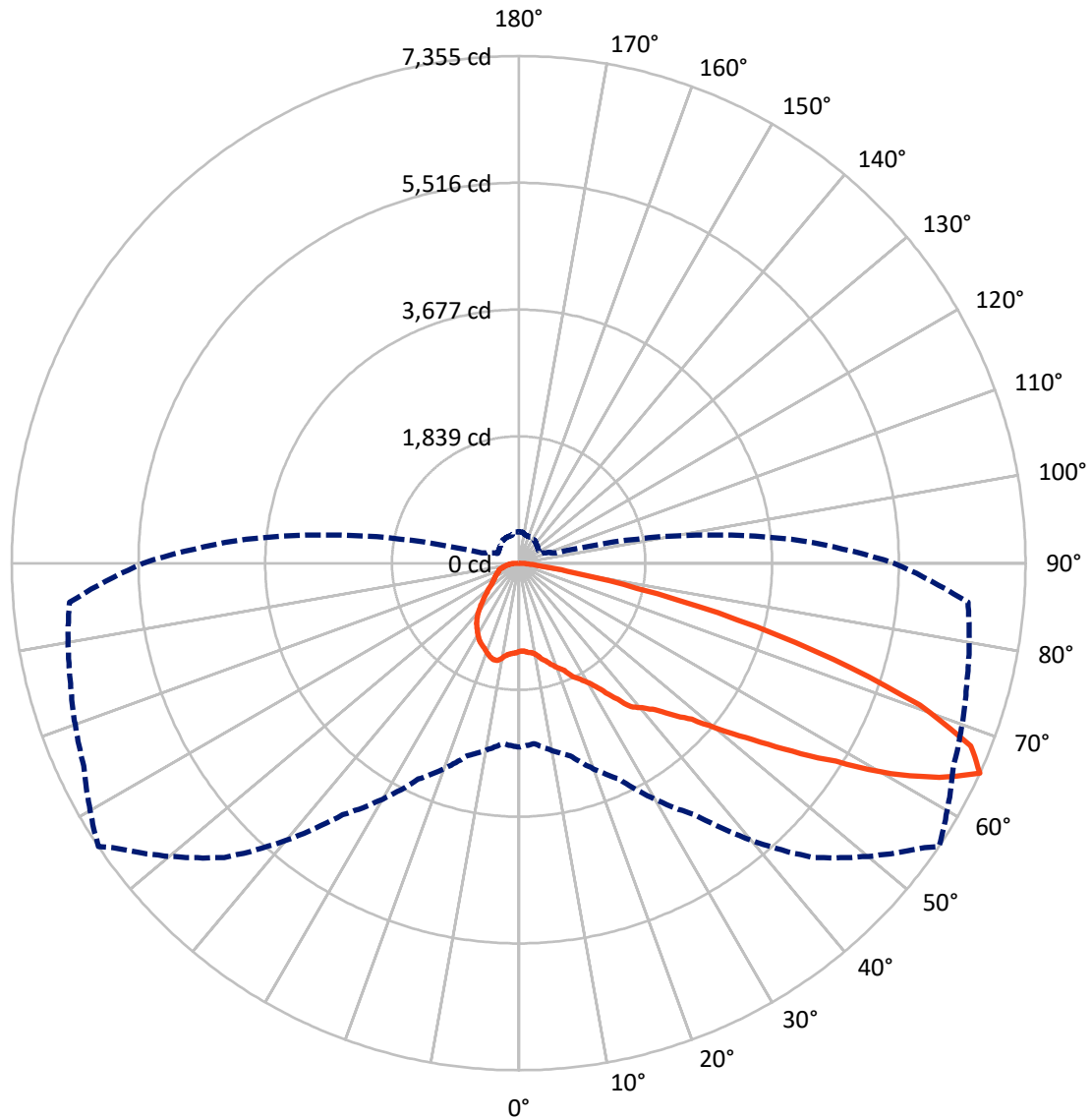
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P477217  
CATALOG NUMBER: IFLD-S-SA2C-722-U-T3

### 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	2391.5	0.0	2391.5
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	8272.0	0.0	8272.0
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	10663.5	0.0	10663.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.8	1.2
10°-20°	411.9	3.9
20°-30°	733.3	6.9
30°-40°	1098.1	10.3
40°-50°	1627.0	15.3
50°-60°	2507.0	23.5
60°-70°	2838.3	26.6
70°-80°	1177.9	11.0
80°-90°	143.1	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°	10663.5	100.0
0°-180°	10663.5	100.0

**Coefficient of Utilization**

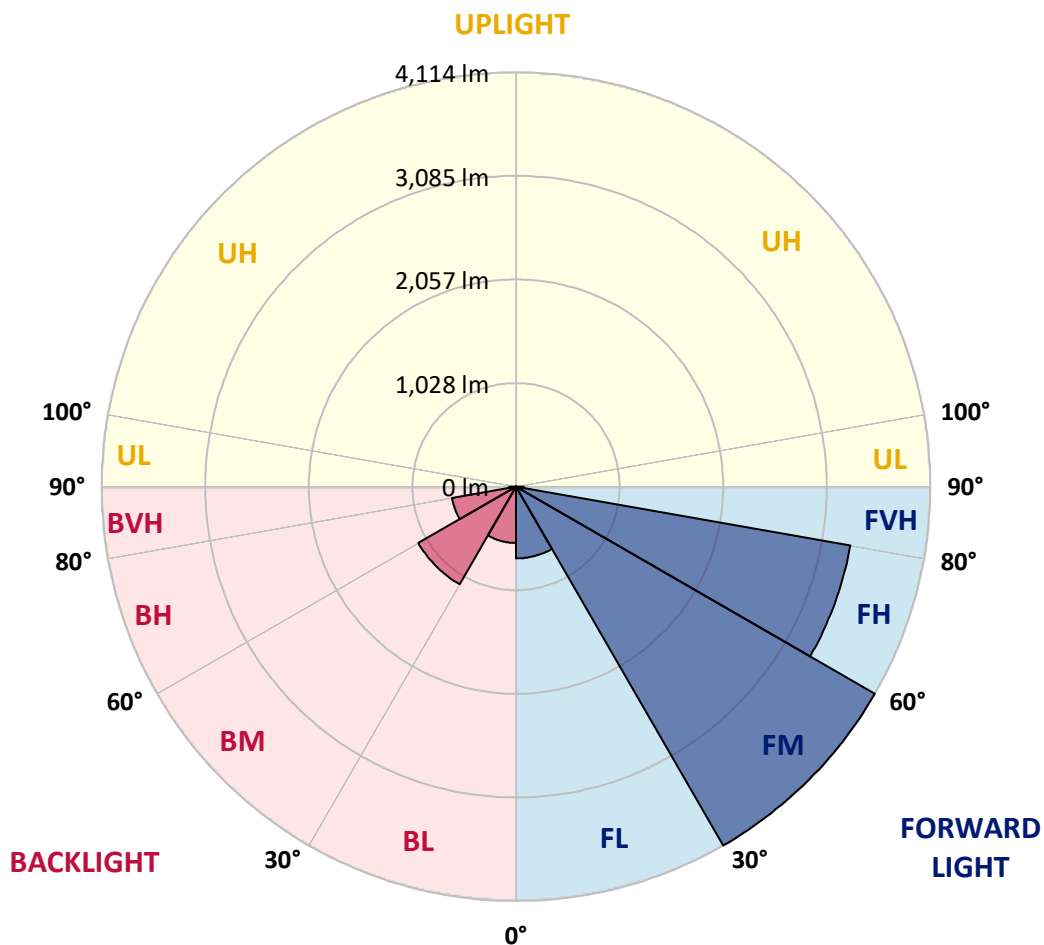


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.6	6.7			
FM (30°-60°)	4113.5	38.6			
FH (60°-80°)	3370.4	31.6			G2/5000
FVH (80°-90°)	75.5	0.7			G1/100
BL (0°-30°)	559.4	5.2	B2/1000		
BM (30°-60°)	1118.7	10.5	B2/2500		
BH (60°-80°)	645.8	6.1	B2/1000		G2/1000
BVH (80°-90°)	67.6	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°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
2.5°	1246.4	1253.1	1248.7	1262.1	1273.2	1273.2	1282.2	1275.5	1284.4	1296.7
5°	1287.7	1261.0	1275.5	1282.2	1278.8	1284.4	1275.5	1297.8	1283.3	1306.7
7.5°	1297.8	1307.8	1320.1	1308.9	1319.0	1313.4	1314.5	1311.2	1303.4	1322.3
10°	1371.4	1356.9	1384.8	1368.1	1365.8	1363.6	1359.2	1342.4	1361.4	1362.5
12.5°	1456.2	1442.8	1441.7	1428.3	1446.2	1413.8	1420.5	1411.6	1414.9	1419.4
15°	1517.6	1512.0	1537.7	1522.1	1498.6	1484.1	1499.8	1475.2	1487.5	1485.2
17.5°	1639.2	1638.1	1619.2	1593.5	1580.1	1558.9	1555.5	1545.5	1554.4	1550.0
20°	1724.0	1736.3	1739.7	1709.5	1658.2	1634.8	1629.2	1621.4	1631.4	1628.1
22.5°	1853.5	1834.5	1849.0	1796.6	1777.6	1721.8	1701.7	1690.6	1738.6	1726.3
25°	1936.1	1956.2	1941.6	1923.8	1881.4	1812.2	1797.7	1822.2	1841.2	1827.8
27.5°	2122.4	2102.3	2088.9	2035.4	2007.5	1934.9	1918.2	1909.3	1913.7	1921.6
30°	2264.1	2275.3	2245.2	2207.2	2136.9	2063.3	2024.2	2016.4	2000.8	1987.4
32.5°	2466.1	2449.4	2431.5	2407.0	2346.7	2249.6	2211.7	2182.7	2135.8	2073.3
35°	2563.2	2611.2	2597.8	2531.9	2486.2	2449.4	2438.2	2393.6	2354.5	2256.3
37.5°	2725.0	2745.1	2726.1	2704.9	2683.7	2644.7	2631.3	2643.5	2566.5	2404.7
40°	2829.9	2872.3	2911.4	2852.2	2847.7	2855.6	2773.0	2758.5	2600.0	2515.2
42.5°	3044.1	3062.0	3069.8	3067.6	3093.2	3093.2	2935.9	2904.7	2792.0	2722.8
45°	3327.6	3342.1	3370.0	3390.1	3361.1	3375.6	3151.3	3139.0	3038.6	3025.2
47.5°	3573.1	3607.7	3670.2	3729.3	3767.2	3718.1	3472.6	3385.6	3359.9	3440.3
50°	3787.3	3746.0	3892.2	3952.5	4118.7	4200.2	3827.5	3792.9	3751.6	3905.6
52.5°	3808.5	3864.3	4070.8	4191.3	4533.9	4684.5	4262.7	4248.2	4198.0	4375.4
55°	3960.3	3953.6	4161.1	4422.3	4829.6	5082.9	4829.6	4820.6	4711.3	4879.8
57.5°	3934.6	4002.7	4166.7	4531.6	5096.3	5510.3	5486.8	5425.4	5272.6	5409.8
60°	3847.6	3865.4	4065.2	4528.3	5251.4	5948.8	6196.5	6208.8	5896.4	6005.7
62.5°	3354.4	3395.6	3649.0	4172.3	5140.9	6251.2	6889.5	6846.0	6596.0	6471.0
65°	2668.1	2626.8	2890.1	3455.9	4453.5	6037.0	7193.0	7354.8	6962.0	6733.3
67.5°	1635.9	1625.8	1879.2	2378.0	3332.0	5137.5	6950.9	7077.0	6860.5	6677.5
70°	842.5	816.8	975.3	1326.8	2094.5	3769.5	6049.2	6173.1	6379.5	5989.0
72.5°	392.8	387.2	472.0	652.8	1066.8	2216.2	4684.5	4773.8	5209.0	5049.4
75°	231.0	234.3	282.3	341.5	520.0	1044.5	3108.9	3281.8	3753.8	3638.9
77.5°	173.0	173.0	200.9	237.7	303.5	404.0	1534.3	1763.1	2195.0	1974.0
80°	127.2	129.4	154.0	178.5	210.9	208.7	609.3	714.2	1006.5	860.3
82.5°	99.3	102.7	119.4	132.8	148.4	126.1	250.0	268.9	414.0	329.2
85°	69.2	71.4	93.7	90.4	90.4	70.3	103.8	109.4	164.0	156.2
87.5°	16.7	19.0	45.8	50.2	37.9	21.2	32.4	36.8	59.1	68.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477217  
 CATALOG NUMBER: IFLD-S-SA2C-722-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1279.9	0°	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9	1279.9
1302.2	2.5°	1285.5	1290.0	1308.9	1298.9	1304.5	1281.0	1300.0	1284.4	1297.8	1291.1
1312.3	5°	1321.2	1311.2	1322.3	1314.5	1314.5	1323.4	1336.8	1326.8	1346.9	1337.9
1320.1	7.5°	1335.7	1336.8	1343.5	1344.6	1339.1	1367.0	1368.1	1364.7	1383.7	1379.2
1373.7	10°	1371.4	1372.5	1384.8	1391.5	1385.9	1396.0	1384.8	1375.9	1374.8	1370.3
1416.1	12.5°	1428.3	1439.5	1437.3	1442.8	1444.0	1401.6	1375.9	1332.4	1326.8	1332.4
1478.6	15°	1480.8	1476.3	1478.6	1489.7	1442.8	1374.8	1329.0	1292.2	1294.4	1295.5
1560.0	17.5°	1543.3	1546.6	1550.0	1498.6	1412.7	1332.4	1292.2	1292.2	1281.0	1285.5
1616.9	20°	1614.7	1601.3	1572.3	1499.8	1360.3	1283.3	1271.0	1271.0	1257.6	1248.7
1678.3	22.5°	1670.5	1643.7	1600.2	1465.2	1313.4	1264.3	1234.2	1213.0	1197.3	1179.5
1746.4	25°	1706.2	1691.7	1606.9	1429.5	1278.8	1214.1	1169.5	1137.1	1117.0	1093.6
1799.9	27.5°	1760.9	1733.0	1625.8	1388.2	1240.9	1163.9	1094.7	1044.5	1006.5	982.0
1881.4	30°	1834.5	1794.3	1612.5	1329.0	1182.8	1076.8	995.4	930.7	887.1	867.0
1958.4	32.5°	1894.8	1842.3	1601.3	1275.5	1118.1	988.7	880.4	814.6	790.0	764.4
2087.8	35°	2009.7	1905.9	1593.5	1245.3	1060.1	900.5	786.7	729.8	698.5	660.6
2164.8	37.5°	2097.9	2016.4	1574.5	1182.8	985.3	814.6	715.3	664.0	617.1	576.9
2343.4	40°	2236.2	2170.4	1575.6	1094.7	897.2	740.9	659.5	605.9	546.8	512.2
2607.8	42.5°	2496.2	2322.2	1582.3	1024.4	797.9	680.7	609.3	545.7	486.5	457.5
2909.1	45°	2815.4	2530.8	1541.0	960.8	696.3	623.8	549.0	485.4	447.5	426.3
3318.7	47.5°	3182.5	2735.0	1485.2	841.4	611.5	563.5	493.2	456.4	428.5	416.2
3846.5	50°	3593.2	3027.4	1469.6	732.0	545.7	512.2	466.4	438.5	419.6	405.1
4441.2	52.5°	4122.1	3367.7	1438.4	619.3	488.8	470.9	456.4	437.4	420.7	408.4
4995.8	55°	4627.6	3744.9	1404.9	526.7	448.6	450.8	458.6	441.9	427.4	408.4
5617.4	57.5°	5196.7	4129.9	1281.0	458.6	418.5	440.8	456.4	437.4	422.9	408.4
6253.4	60°	5548.2	4346.4	1038.9	399.5	391.7	421.8	443.0	422.9	407.3	412.9
6545.8	62.5°	5691.0	4232.6	783.4	362.7	372.7	396.1	421.8	414.0	402.8	424.0
6542.5	65°	5447.8	3970.3	560.2	331.4	347.0	370.5	402.8	411.8	415.1	456.4
6009.1	67.5°	4847.4	3457.0	411.8	305.8	320.3	354.9	416.2	430.7	428.5	479.8
5042.7	70°	3878.8	2703.8	321.4	284.6	310.2	367.1	435.2	435.2	419.6	479.8
3846.5	72.5°	2822.1	1905.9	276.7	260.0	284.6	337.0	433.0	431.8	411.8	438.5
2449.4	75°	1708.4	1109.2	244.4	235.5	244.4	289.0	414.0	407.3	379.4	377.2
1178.4	77.5°	851.4	557.9	199.7	208.7	213.1	242.1	363.8	373.8	335.9	327.0
465.3	80°	359.3	243.3	166.3	179.7	179.7	204.2	302.4	309.1	279.0	262.2
184.1	82.5°	164.0	139.5	141.7	156.2	146.2	158.5	239.9	247.7	226.5	198.6
78.1	85°	69.2	79.2	108.2	122.7	108.2	102.7	165.2	174.1	147.3	122.7
33.5	87.5°	31.2	43.5	68.1	89.3	54.7	48.0	88.2	91.5	73.6	54.7
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>
1279.9
1278.8
1325.7
1372.5
1370.3
1334.6
1311.2
1286.6
1235.3
1169.5
1098.0
993.1
878.2
763.3
657.3
578.0
515.5
459.7
430.7
414.0
407.3
407.3
407.3
407.3
408.4
418.5
456.4
483.2
469.8
422.9
372.7
321.4
256.7
194.2
123.9
51.3
0.0

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