

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: P477529

Luminaire Tested: **IFLD-S-SA2C-830-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477529
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

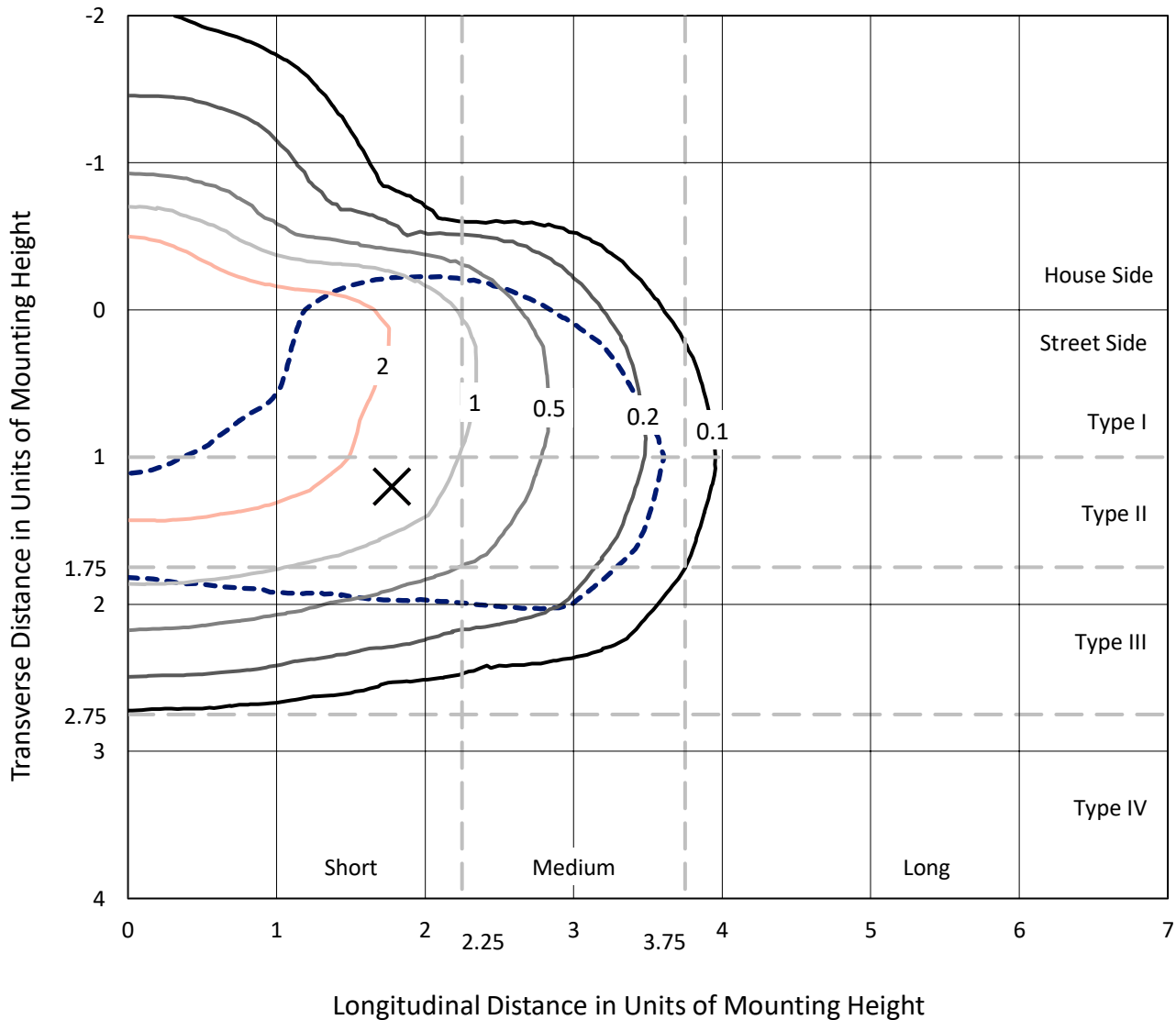
Lumens per Lamp: N/A
Luminaire Lumens: 11503.1 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (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

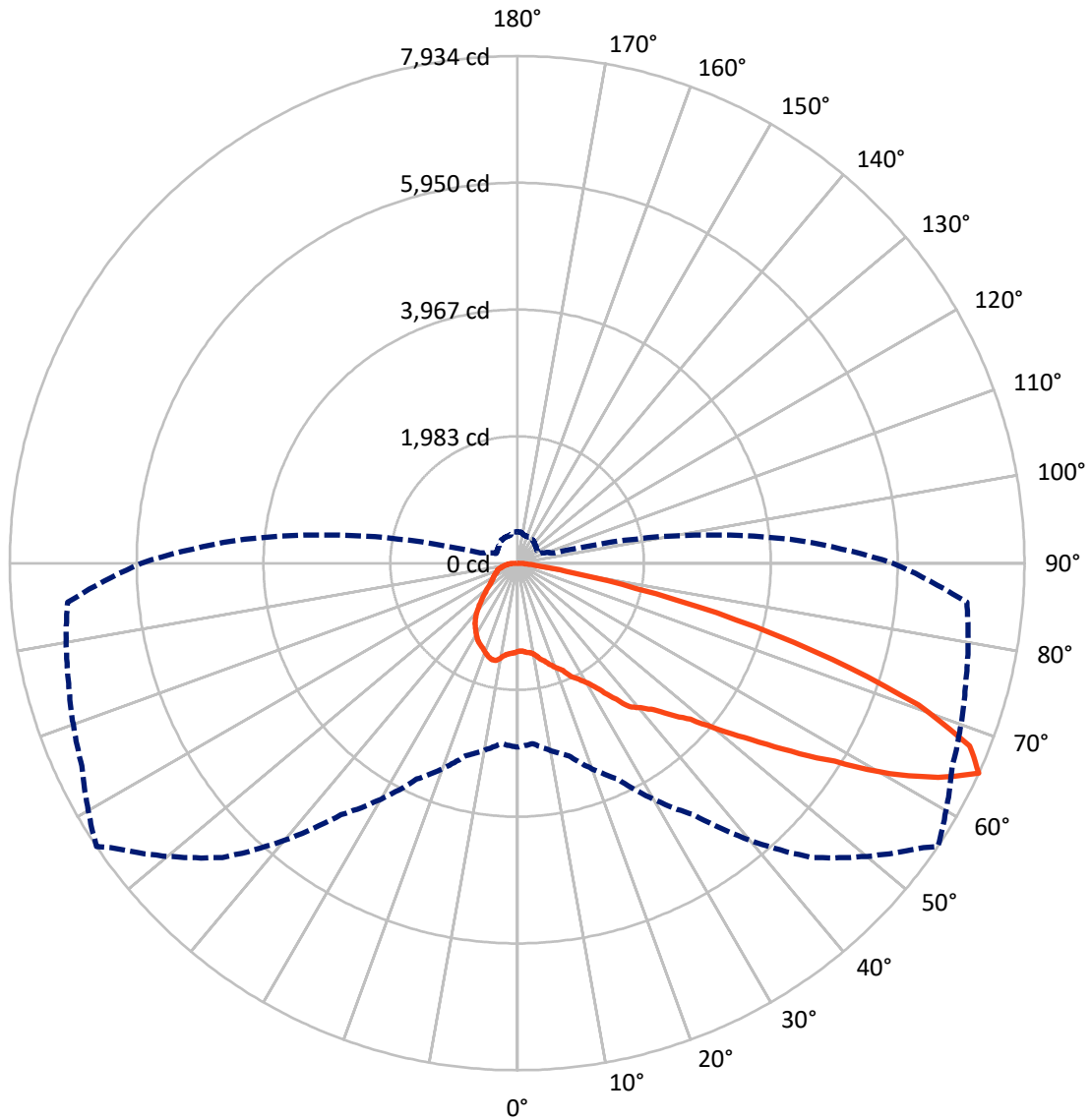
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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	2579.8	0.0	2579.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	8923.3	0.0	8923.3
	% Fixture	77.6	0.0	77.6
Total	Lumens	11503.1	0.0	11503.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.2
10°-20°	444.3	3.9
20°-30°	791.1	6.9
30°-40°	1184.6	10.3
40°-50°	1755.1	15.3
50°-60°	2704.4	23.5
60°-70°	3061.7	26.6
70°-80°	1270.7	11.0
80°-90°	154.4	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°	11503.1	100.0
0°-180°	11503.1	100.0

Coefficient of Utilization

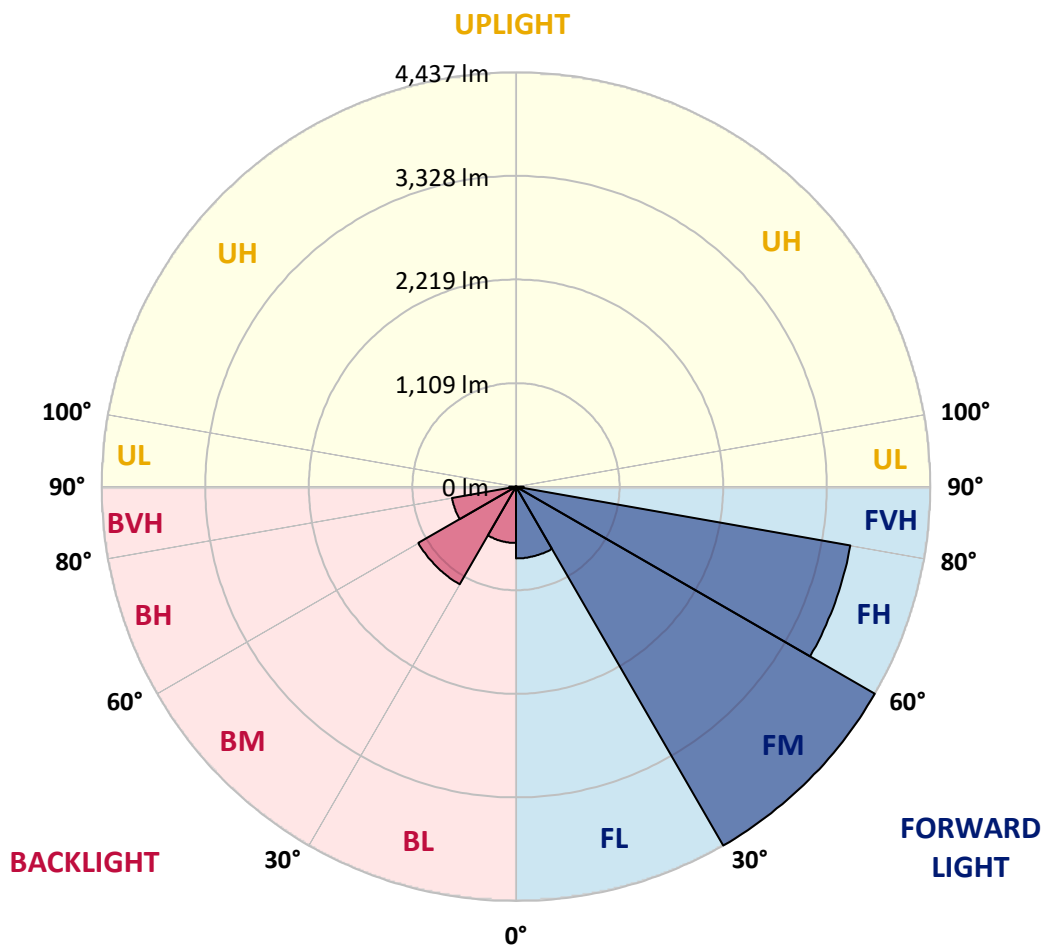


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.7	6.7			
FM (30°-60°)	4437.4	38.6			
FH (60°-80°)	3635.8	31.6			G2/5000
FVH (80°-90°)	81.4	0.7			G1/100
BL (0°-30°)	603.4	5.2	B2/1000		
BM (30°-60°)	1206.8	10.5	B2/2500		
BH (60°-80°)	696.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	72.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7
2.5°	1344.6	1351.8	1347.0	1361.4	1373.5	1373.5	1383.1	1375.9	1385.5	1398.8
5°	1389.1	1360.2	1375.9	1383.1	1379.5	1385.5	1375.9	1400.0	1384.3	1409.6
7.5°	1400.0	1410.8	1424.0	1412.0	1422.8	1416.8	1418.0	1414.4	1406.0	1426.4
10°	1479.4	1463.8	1493.9	1475.8	1473.4	1471.0	1466.2	1448.1	1468.6	1469.8
12.5°	1570.9	1556.5	1555.2	1540.8	1560.1	1525.2	1532.4	1522.7	1526.4	1531.2
15°	1637.1	1631.1	1658.8	1641.9	1616.6	1601.0	1617.8	1591.4	1604.6	1602.2
17.5°	1768.3	1767.1	1746.6	1719.0	1704.5	1681.6	1678.0	1667.2	1676.8	1672.0
20°	1859.8	1873.0	1876.7	1844.1	1788.8	1763.5	1757.5	1749.1	1759.9	1756.3
22.5°	1999.4	1979.0	1994.6	1938.0	1917.6	1857.4	1835.7	1823.7	1875.4	1862.2
25°	2088.5	2110.2	2094.5	2075.3	2029.5	1954.9	1939.2	1965.7	1986.2	1971.7
27.5°	2289.5	2267.9	2253.4	2195.6	2165.6	2087.3	2069.3	2059.6	2064.4	2072.9
30°	2442.4	2454.5	2422.0	2381.0	2305.2	2225.7	2183.6	2175.2	2158.3	2143.9
32.5°	2660.3	2642.2	2623.0	2596.5	2531.5	2426.8	2385.8	2354.5	2304.0	2236.6
35°	2765.0	2816.8	2802.3	2731.3	2682.0	2642.2	2630.2	2582.1	2539.9	2434.0
37.5°	2939.6	2961.2	2940.8	2917.9	2895.0	2852.9	2838.4	2851.7	2768.6	2594.1
40°	3052.7	3098.5	3140.6	3076.8	3072.0	3080.4	2991.3	2975.7	2804.7	2713.3
42.5°	3283.8	3303.1	3311.5	3309.1	3336.8	3336.8	3167.1	3133.4	3011.8	2937.2
45°	3589.6	3605.2	3635.3	3657.0	3625.7	3641.4	3399.4	3386.2	3277.8	3263.4
47.5°	3854.4	3891.7	3959.1	4022.9	4063.9	4010.9	3746.1	3652.2	3624.5	3711.2
50°	4085.5	4041.0	4198.7	4263.7	4443.1	4530.9	4128.9	4091.6	4047.0	4213.1
52.5°	4108.4	4168.6	4391.3	4521.3	4890.8	5053.4	4598.3	4582.7	4528.5	4719.9
55°	4272.1	4264.9	4488.8	4770.5	5209.8	5483.1	5209.8	5200.2	5082.2	5264.0
57.5°	4244.4	4317.9	4494.8	4888.4	5497.5	5944.1	5918.9	5852.6	5687.7	5835.8
60°	4150.5	4169.8	4385.3	4884.8	5664.9	6417.2	6684.4	6697.7	6360.6	6478.6
62.5°	3618.5	3663.0	3936.3	4500.8	5545.7	6743.4	7432.0	7385.0	7115.4	6980.6
65°	2878.2	2833.6	3117.7	3728.0	4804.2	6512.3	7759.4	7933.9	7510.2	7263.4
67.5°	1764.7	1753.9	2027.1	2565.2	3594.4	5542.1	7498.2	7634.2	7400.7	7203.3
70°	908.8	881.1	1052.1	1431.3	2259.4	4066.3	6525.5	6659.2	6881.9	6460.5
72.5°	423.7	417.7	509.2	704.2	1150.8	2390.7	5053.4	5149.7	5619.1	5447.0
75°	249.2	252.8	304.5	368.3	560.9	1126.7	3353.7	3540.2	4049.4	3925.4
77.5°	186.6	186.6	216.7	256.4	327.4	435.8	1655.2	1901.9	2367.8	2129.4
80°	137.2	139.6	166.1	192.6	227.5	225.1	657.2	770.4	1085.8	928.1
82.5°	107.1	110.7	128.8	143.2	160.1	136.0	269.6	290.1	446.6	355.1
85°	74.6	77.0	101.1	97.5	97.5	75.8	111.9	118.0	177.0	168.5
87.5°	18.1	20.5	49.4	54.2	40.9	22.9	34.9	39.7	63.8	73.4
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°
1380.7	0°	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7	1380.7
1404.8	2.5°	1386.7	1391.5	1412.0	1401.2	1407.2	1381.9	1402.4	1385.5	1400.0	1392.7
1415.6	5°	1425.2	1414.4	1426.4	1418.0	1418.0	1427.7	1442.1	1431.3	1452.9	1443.3
1424.0	7.5°	1440.9	1442.1	1449.3	1450.5	1444.5	1474.6	1475.8	1472.2	1492.7	1487.8
1481.8	10°	1479.4	1480.6	1493.9	1501.1	1495.1	1505.9	1493.9	1484.2	1483.0	1478.2
1527.6	12.5°	1540.8	1552.8	1550.4	1556.5	1557.7	1511.9	1484.2	1437.3	1431.3	1437.3
1595.0	15°	1597.4	1592.6	1595.0	1607.0	1556.5	1483.0	1433.7	1393.9	1396.4	1397.6
1682.8	17.5°	1664.8	1668.4	1672.0	1616.6	1524.0	1437.3	1393.9	1393.9	1381.9	1386.7
1744.2	20°	1741.8	1727.4	1696.1	1617.8	1467.4	1384.3	1371.1	1371.1	1356.6	1347.0
1810.4	22.5°	1802.0	1773.1	1726.2	1580.5	1416.8	1363.9	1331.4	1308.5	1291.6	1272.4
1883.9	25°	1840.5	1824.9	1733.4	1542.0	1379.5	1309.7	1261.5	1226.6	1205.0	1179.7
1941.7	27.5°	1899.5	1869.4	1753.9	1497.5	1338.6	1255.5	1180.9	1126.7	1085.8	1059.3
2029.5	30°	1979.0	1935.6	1739.4	1433.7	1276.0	1161.6	1073.7	1003.9	957.0	935.3
2112.6	32.5°	2044.0	1987.4	1727.4	1375.9	1206.2	1066.5	949.8	878.7	852.3	824.6
2252.2	35°	2168.0	2056.0	1719.0	1343.4	1143.6	971.4	848.6	787.3	753.5	712.6
2335.3	37.5°	2263.1	2175.2	1698.5	1276.0	1062.9	878.7	771.6	716.2	665.7	622.3
2527.9	40°	2412.3	2341.3	1699.7	1180.9	967.8	799.3	711.4	653.6	589.8	552.5
2813.2	42.5°	2692.8	2505.0	1706.9	1105.0	860.7	734.3	657.2	588.6	524.8	493.5
3138.2	45°	3037.1	2730.1	1662.4	1036.4	751.1	672.9	592.2	523.6	482.7	459.8
3580.0	47.5°	3433.1	2950.4	1602.2	907.6	659.7	607.9	532.1	492.3	462.2	449.0
4149.3	50°	3876.1	3265.8	1585.3	789.7	588.6	552.5	503.2	473.1	452.6	437.0
4790.9	52.5°	4446.7	3632.9	1551.6	668.1	527.2	508.0	492.3	471.9	453.8	440.6
5389.2	55°	4992.0	4039.8	1515.5	568.2	483.9	486.3	494.7	476.7	461.0	440.6
6059.7	57.5°	5605.9	4455.1	1381.9	494.7	451.4	475.5	492.3	471.9	456.2	440.6
6745.8	60°	5985.1	4688.6	1120.7	430.9	422.5	455.0	477.9	456.2	439.4	445.4
7061.2	62.5°	6139.1	4565.8	845.0	391.2	402.1	427.3	455.0	446.6	434.6	457.4
7057.6	65°	5876.7	4283.0	604.3	357.5	374.4	399.6	434.6	444.2	447.8	492.3
6482.2	67.5°	5229.1	3729.2	444.2	329.8	345.5	382.8	449.0	464.6	462.2	517.6
5439.8	70°	4184.2	2916.7	346.7	307.0	334.6	396.0	469.5	469.5	452.6	517.6
4149.3	72.5°	3044.3	2056.0	298.5	280.5	307.0	363.5	467.1	465.9	444.2	473.1
2642.2	75°	1842.9	1196.5	263.6	254.0	263.6	311.8	446.6	439.4	409.3	406.9
1271.2	77.5°	918.5	601.9	215.5	225.1	229.9	261.2	392.4	403.3	362.3	352.7
502.0	80°	387.6	262.4	179.4	193.8	193.8	220.3	326.2	333.4	300.9	282.9
198.6	82.5°	177.0	150.5	152.9	168.5	157.7	170.9	258.8	267.2	244.4	214.3
84.3	85°	74.6	85.5	116.8	132.4	116.8	110.7	178.2	187.8	158.9	132.4
36.1	87.5°	33.7	46.9	73.4	96.3	59.0	51.8	95.1	98.7	79.4	59.0
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>
1380.7
1379.5
1430.1
1480.6
1478.2
1439.7
1414.4
1387.9
1332.6
1261.5
1184.5
1071.3
947.4
823.4
709.0
623.5
556.1
495.9
464.6
446.6
439.4
439.4
439.4
439.4
440.6
451.4
492.3
521.2
506.8
456.2
402.1
346.7
276.9
209.5
133.6
55.4
0.0

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