

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: P477294

Luminaire Tested: **IFLD-S-SA2B-730-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477294
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

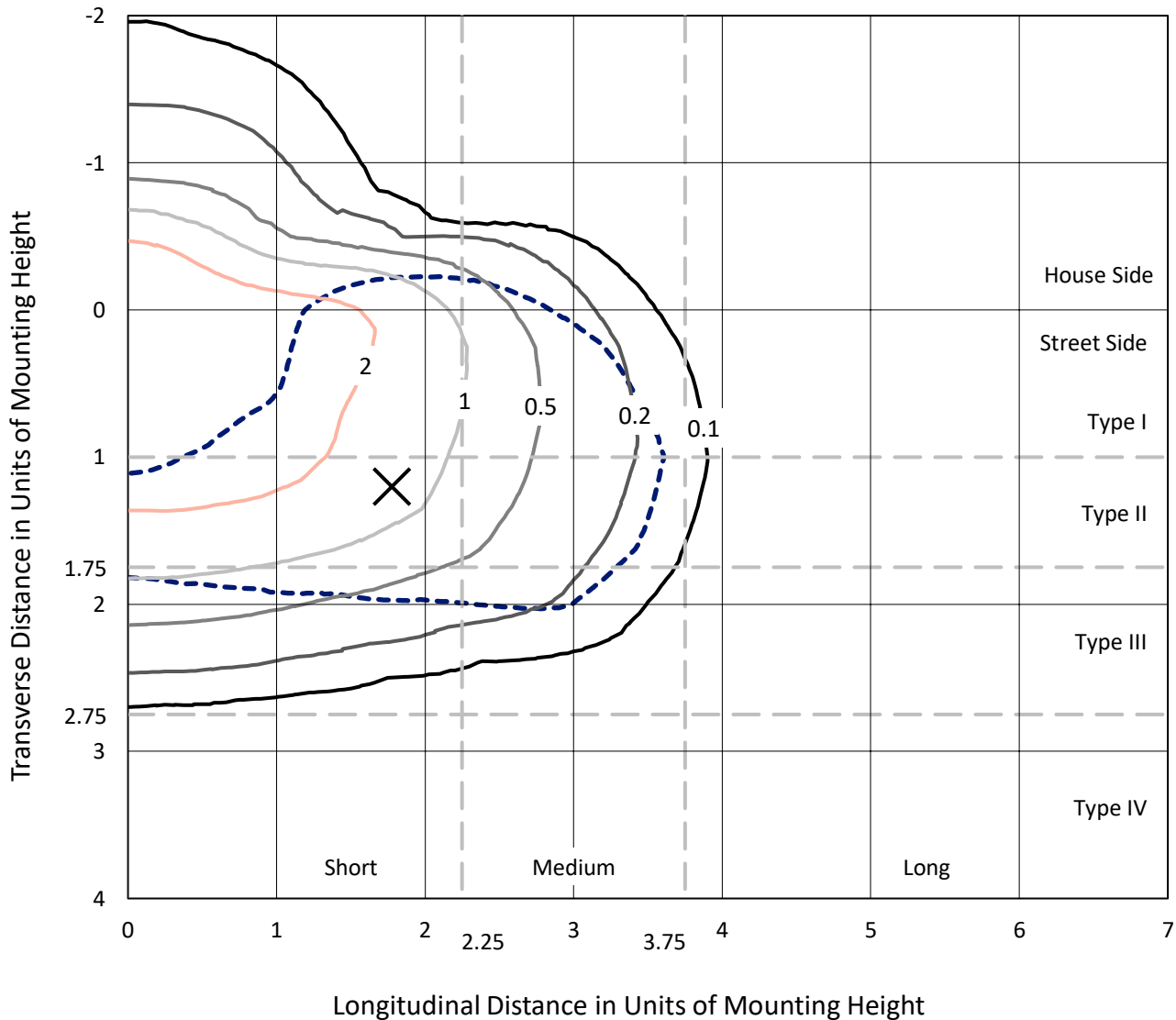
Lumens per Lamp: N/A
Luminaire Lumens: 10589.6 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (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

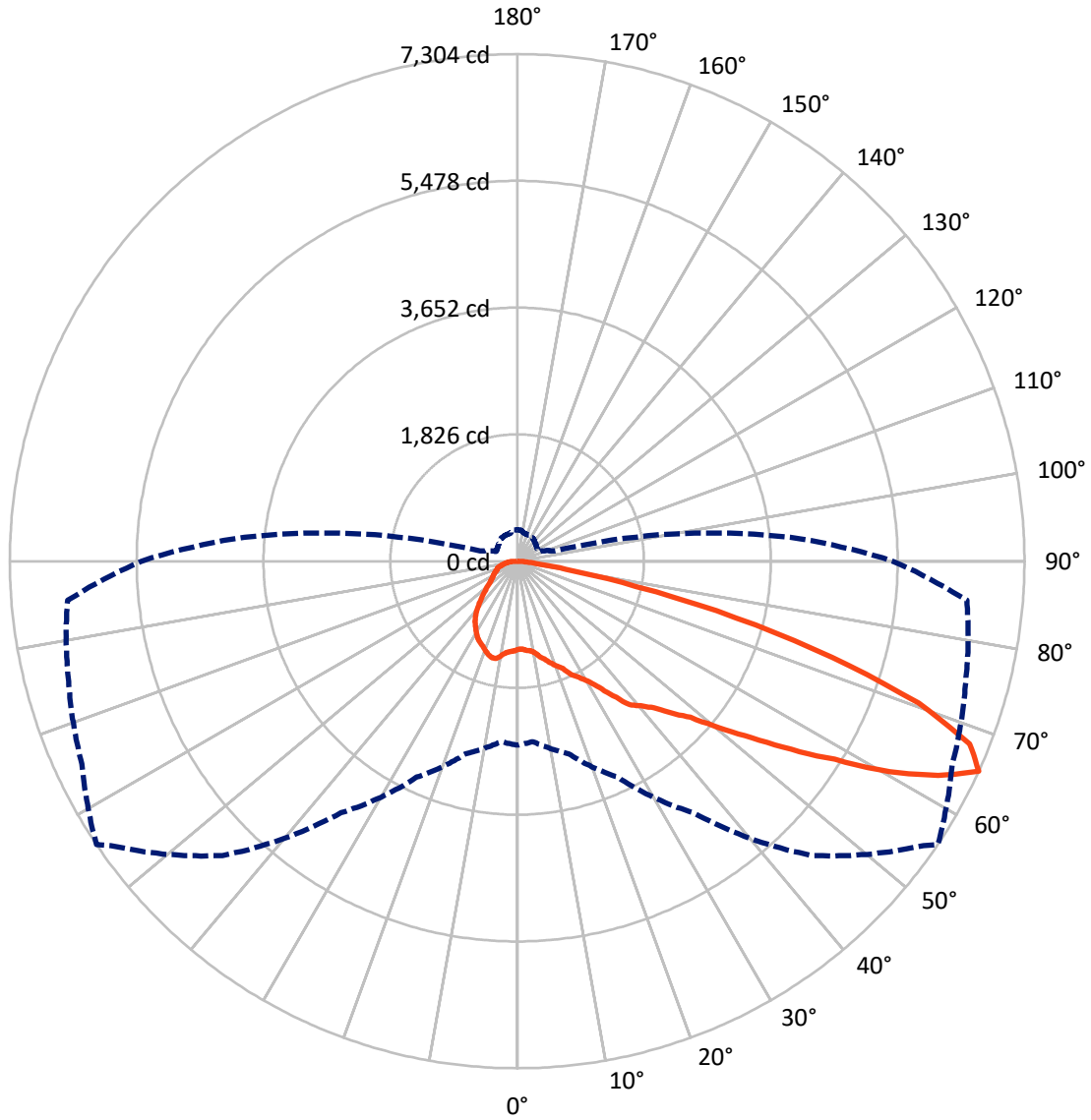
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2374.9	0.0	2374.9
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	8214.7	0.0	8214.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	10589.6	0.0	10589.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	1.2
10°-20°	409.0	3.9
20°-30°	728.2	6.9
30°-40°	1090.5	10.3
40°-50°	1615.8	15.3
50°-60°	2489.6	23.5
60°-70°	2818.6	26.6
70°-80°	1169.7	11.0
80°-90°	142.1	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°	10589.6	100.0
0°-180°	10589.6	100.0

Coefficient of Utilization



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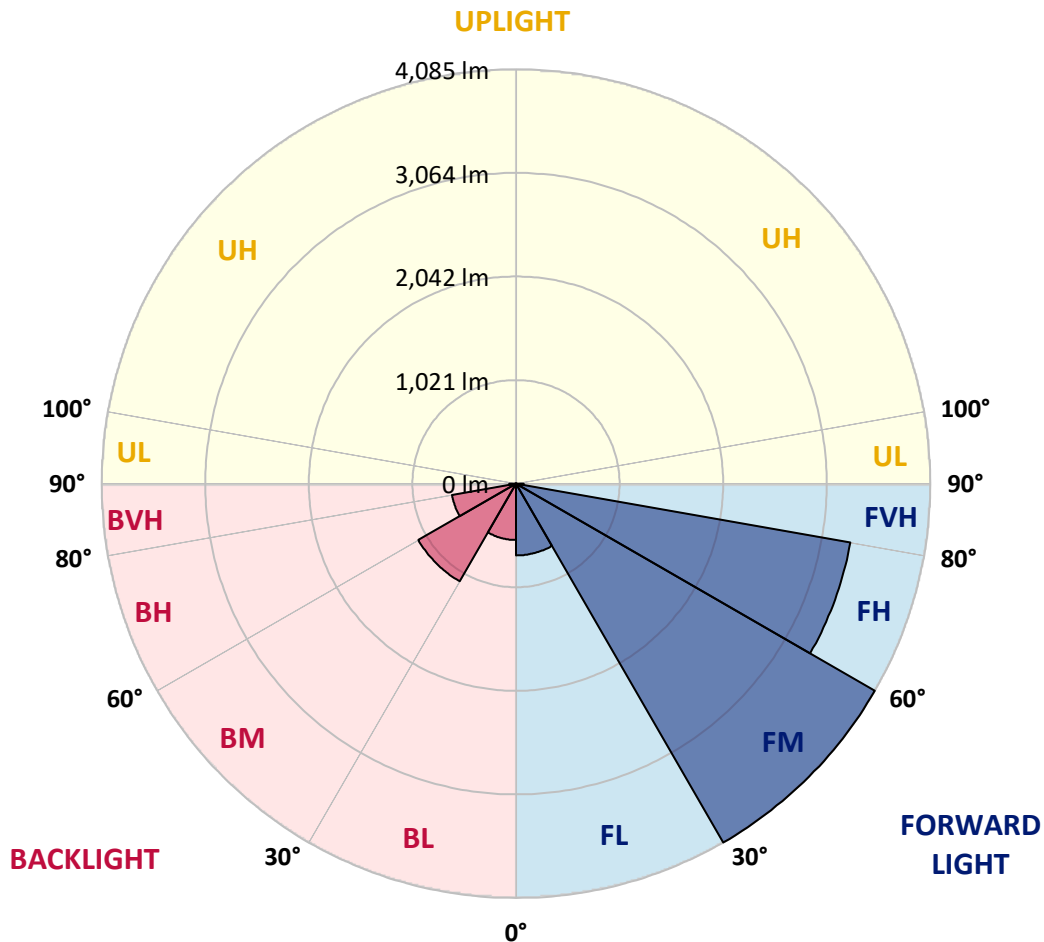
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.7	6.7			
FM (30°-60°)	4085.0	38.6			
FH (60°-80°)	3347.0	31.6			G2/5000
FVH (80°-90°)	75.0	0.7			G1/100
BL (0°-30°)	555.5	5.2	B2/1000		
BM (30°-60°)	1110.9	10.5	B2/2500		
BH (60°-80°)	641.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	67.2	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°	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1
2.5°	1237.8	1244.5	1240.0	1253.3	1264.4	1264.4	1273.3	1266.6	1275.5	1287.7
5°	1278.8	1252.2	1266.6	1273.3	1269.9	1275.5	1266.6	1288.8	1274.4	1297.6
7.5°	1288.8	1298.8	1310.9	1299.9	1309.8	1304.3	1305.4	1302.1	1294.3	1313.2
10°	1361.9	1347.5	1375.2	1358.6	1356.4	1354.2	1349.7	1333.1	1351.9	1353.1
12.5°	1446.1	1432.8	1431.7	1418.4	1436.2	1404.0	1410.7	1401.8	1405.1	1409.6
15°	1507.1	1501.5	1527.0	1511.5	1488.2	1473.8	1489.4	1465.0	1477.2	1475.0
17.5°	1627.9	1626.8	1607.9	1582.4	1569.1	1548.1	1544.8	1534.8	1543.7	1539.2
20°	1712.1	1724.3	1727.6	1697.7	1646.7	1623.4	1617.9	1610.1	1620.1	1616.8
22.5°	1840.6	1821.8	1836.2	1784.1	1765.3	1709.9	1689.9	1678.9	1726.5	1714.3
25°	1922.6	1942.6	1928.2	1910.5	1868.3	1799.6	1785.2	1809.6	1828.5	1815.2
27.5°	2107.7	2087.8	2074.5	2021.3	1993.6	1921.5	1904.9	1896.0	1900.5	1908.2
30°	2248.4	2259.5	2229.6	2191.9	2122.1	2049.0	2010.2	2002.4	1986.9	1973.6
32.5°	2449.0	2432.4	2414.7	2390.3	2330.4	2234.0	2196.4	2167.5	2121.0	2058.9
35°	2545.4	2593.1	2579.8	2514.4	2469.0	2432.4	2421.3	2377.0	2338.2	2240.7
37.5°	2706.1	2726.1	2707.2	2686.2	2665.1	2626.3	2613.0	2625.2	2548.8	2388.1
40°	2810.3	2852.4	2891.2	2832.4	2828.0	2835.8	2753.8	2739.4	2582.0	2497.8
42.5°	3023.0	3040.8	3048.5	3046.3	3071.8	3071.8	2915.6	2884.5	2772.6	2703.9
45°	3304.5	3318.9	3346.6	3366.6	3337.8	3352.2	3129.4	3117.2	3017.5	3004.2
47.5°	3548.3	3582.7	3644.7	3703.4	3741.1	3692.4	3448.6	3362.1	3336.6	3416.4
50°	3761.1	3720.1	3865.2	3925.1	4090.2	4171.1	3801.0	3766.6	3725.6	3878.5
52.5°	3782.1	3837.5	4042.5	4162.2	4502.4	4652.0	4233.1	4218.7	4168.9	4345.1
55°	3932.8	3926.2	4132.3	4391.6	4796.1	5047.6	4796.1	4787.2	4678.6	4846.0
57.5°	3907.3	3974.9	4137.8	4500.2	5060.9	5472.1	5448.8	5387.8	5236.0	5372.3
60°	3820.9	3838.6	4037.0	4496.9	5215.0	5907.6	6153.6	6165.8	5855.5	5964.1
62.5°	3331.1	3372.1	3623.7	4143.4	5105.3	6207.9	6841.7	6798.5	6550.3	6426.2
65°	2649.6	2608.6	2870.1	3432.0	4422.6	5995.1	7143.2	7303.8	6913.8	6686.6
67.5°	1624.6	1614.6	1866.1	2361.5	3308.9	5101.9	6902.7	7027.9	6812.9	6631.2
70°	836.7	811.2	968.5	1317.6	2080.0	3743.3	6007.3	6130.3	6335.3	5947.5
72.5°	390.1	384.5	468.7	648.3	1059.4	2200.8	4652.0	4740.7	5172.9	5014.4
75°	229.4	232.7	280.4	339.1	516.4	1037.2	3087.3	3259.1	3727.8	3613.7
77.5°	171.8	171.8	199.5	236.0	301.4	401.2	1523.7	1750.9	2179.7	1960.3
80°	126.3	128.5	152.9	177.3	209.4	207.2	605.1	709.2	999.6	854.4
82.5°	98.6	102.0	118.6	131.9	147.4	125.2	248.2	267.1	411.1	326.9
85°	68.7	70.9	93.1	89.8	89.8	69.8	103.1	108.6	162.9	155.1
87.5°	16.6	18.8	45.4	49.9	37.7	21.1	32.1	36.6	58.7	67.6
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°
1271.1	0°	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1	1271.1
1293.2	2.5°	1276.6	1281.0	1299.9	1289.9	1295.4	1272.2	1291.0	1275.5	1288.8	1282.1
1303.2	5°	1312.1	1302.1	1313.2	1305.4	1305.4	1314.3	1327.6	1317.6	1337.5	1328.7
1310.9	7.5°	1326.5	1327.6	1334.2	1335.3	1329.8	1357.5	1358.6	1355.3	1374.1	1369.7
1364.1	10°	1361.9	1363.0	1375.2	1381.9	1376.3	1386.3	1375.2	1366.4	1365.2	1360.8
1406.2	12.5°	1418.4	1429.5	1427.3	1432.8	1434.0	1391.8	1366.4	1323.1	1317.6	1323.1
1468.3	15°	1470.5	1466.1	1468.3	1479.4	1432.8	1365.2	1319.8	1283.2	1285.5	1286.6
1549.2	17.5°	1532.6	1535.9	1539.2	1488.2	1402.9	1323.1	1283.2	1283.2	1272.2	1276.6
1605.7	20°	1603.5	1590.2	1561.4	1489.4	1350.8	1274.4	1262.2	1262.2	1248.9	1240.0
1666.7	22.5°	1658.9	1632.3	1589.1	1455.0	1304.3	1255.5	1225.6	1204.6	1189.0	1171.3
1734.3	25°	1694.4	1680.0	1595.7	1419.5	1269.9	1205.7	1161.3	1129.2	1109.3	1086.0
1787.5	27.5°	1748.7	1721.0	1614.6	1378.5	1232.3	1155.8	1087.1	1037.2	999.6	975.2
1868.3	30°	1821.8	1781.9	1601.3	1319.8	1174.6	1069.4	988.5	924.2	881.0	861.0
1944.8	32.5°	1881.6	1829.6	1590.2	1266.6	1110.4	981.8	874.3	809.0	784.6	759.1
2073.4	35°	1995.8	1892.7	1582.4	1236.7	1052.7	894.3	781.2	724.7	693.7	656.0
2149.8	37.5°	2083.3	2002.4	1563.6	1174.6	978.5	809.0	710.3	659.4	612.8	572.9
2327.1	40°	2220.7	2155.4	1564.7	1087.1	891.0	735.8	654.9	601.7	543.0	508.6
2589.8	42.5°	2478.9	2306.1	1571.4	1017.3	792.3	676.0	605.1	541.9	483.2	454.3
2889.0	45°	2795.9	2513.3	1530.4	954.1	691.5	619.5	545.2	482.0	444.4	423.3
3295.6	47.5°	3160.5	2716.1	1475.0	835.5	607.3	559.6	489.8	453.2	425.5	413.3
3819.8	50°	3568.3	3006.4	1459.4	726.9	541.9	508.6	463.2	435.5	416.7	402.3
4410.4	52.5°	4093.5	3344.4	1428.4	615.0	485.4	467.6	453.2	434.4	417.8	405.6
4961.2	55°	4595.5	3719.0	1395.2	523.0	445.5	447.7	455.5	438.8	424.4	405.6
5578.4	57.5°	5160.7	4101.3	1272.2	455.5	415.6	437.7	453.2	434.4	420.0	405.6
6210.1	60°	5509.7	4316.3	1031.7	396.7	389.0	418.9	439.9	420.0	404.5	410.0
6500.4	62.5°	5651.6	4203.2	777.9	360.1	370.1	393.4	418.9	411.1	400.0	421.1
6497.1	65°	5410.0	3942.8	556.3	329.1	344.6	367.9	400.0	408.9	412.2	453.2
5967.4	67.5°	4813.8	3433.1	408.9	303.6	318.0	352.4	413.3	427.7	425.5	476.5
5007.7	70°	3851.9	2685.1	319.1	282.6	308.1	364.6	432.2	432.2	416.7	476.5
3819.8	72.5°	2802.5	1892.7	274.8	258.2	282.6	334.7	430.0	428.9	408.9	435.5
2432.4	75°	1696.6	1101.5	242.7	233.8	242.7	287.0	411.1	404.5	376.8	374.6
1170.2	77.5°	845.5	554.1	198.4	207.2	211.7	240.5	361.3	371.2	333.6	324.7
462.1	80°	356.8	241.6	165.1	178.4	178.4	202.8	300.3	307.0	277.0	260.4
182.8	82.5°	162.9	138.5	140.7	155.1	145.2	157.4	238.3	246.0	225.0	197.3
77.6	85°	68.7	78.7	107.5	121.9	107.5	102.0	164.0	172.9	146.3	121.9
33.2	87.5°	31.0	43.2	67.6	88.7	54.3	47.7	87.5	90.9	73.1	54.3
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>
1271.1
1269.9
1316.5
1363.0
1360.8
1325.4
1302.1
1277.7
1226.7
1161.3
1090.4
986.3
872.1
758.0
652.7
574.0
512.0
456.6
427.7
411.1
404.5
404.5
404.5
404.5
405.6
415.6
453.2
479.8
466.5
420.0
370.1
319.1
254.9
192.8
123.0
51.0
0.0

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