

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: P477918

Luminaire Tested: **IFLD-S-SA2B-830-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477918
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

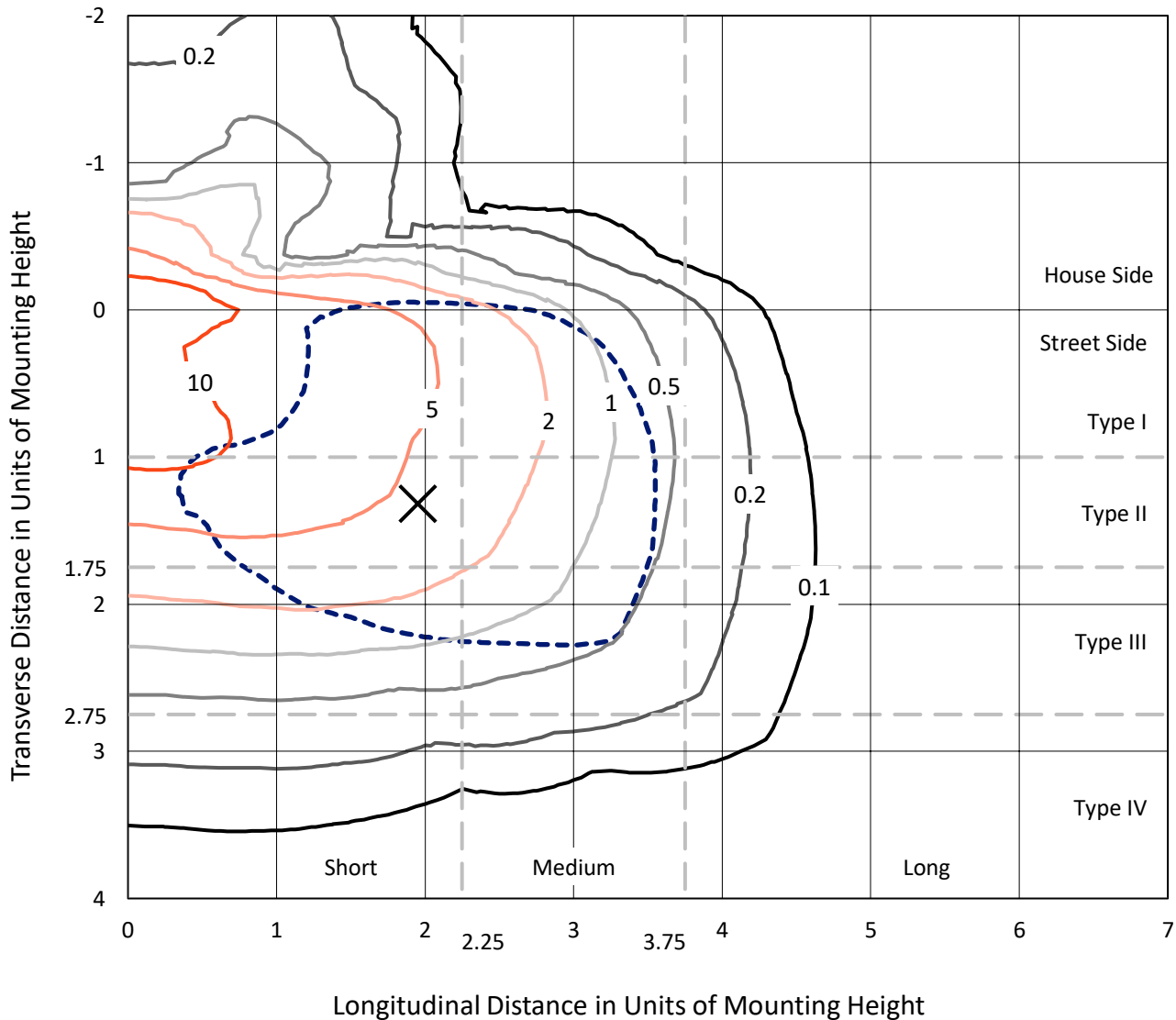
Lumens per Lamp: N/A
Luminaire Lumens: 8911.9 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

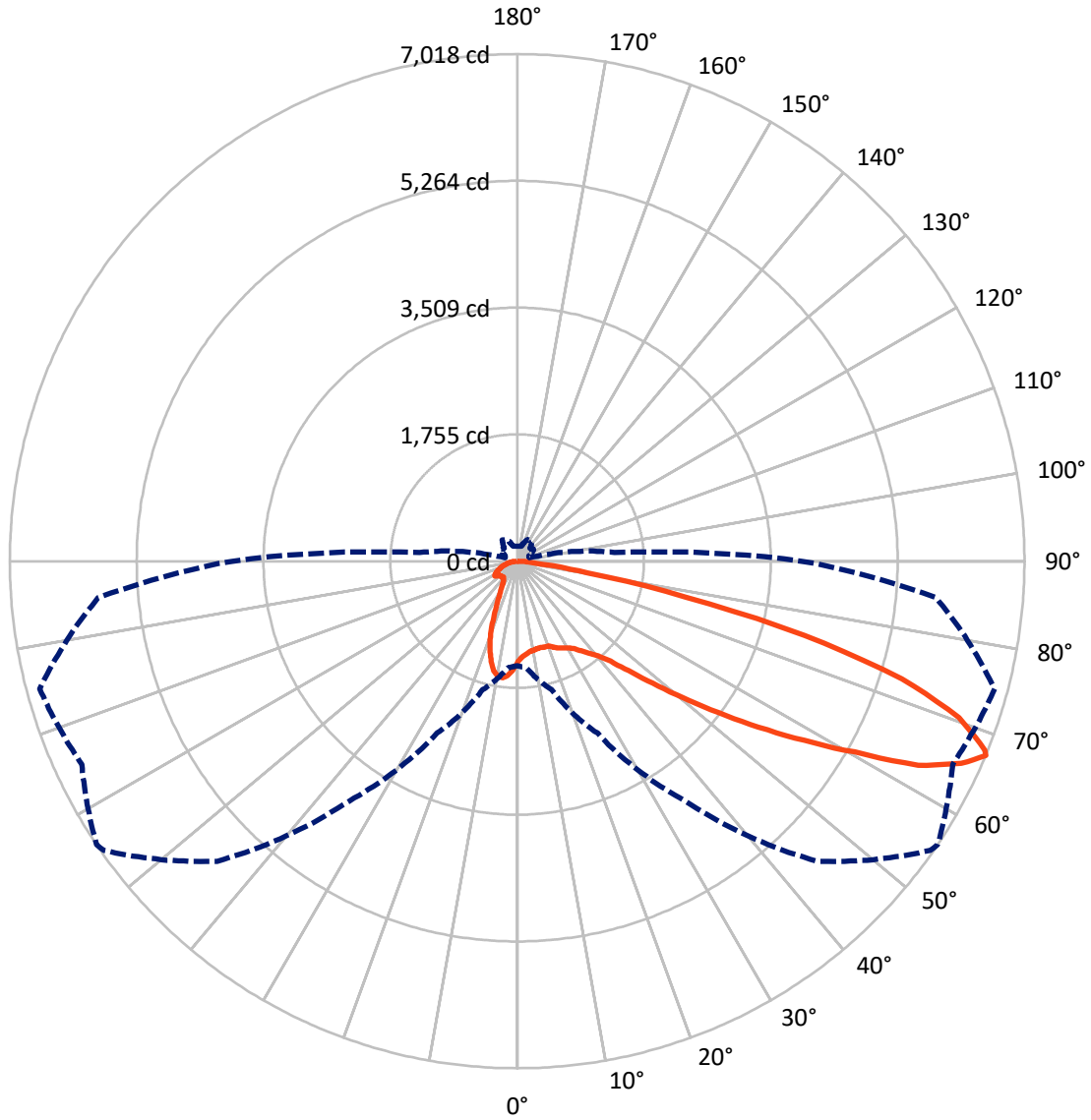
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1410.9	0.0	1410.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	7501.1	0.0	7501.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	8911.9	0.0	8911.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.5
10°-20°	364.4	4.1
20°-30°	571.6	6.4
30°-40°	815.9	9.2
40°-50°	1231.4	13.8
50°-60°	1960.2	22.0
60°-70°	2506.0	28.1
70°-80°	1221.8	13.7
80°-90°	106.9	1.2
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°	8911.9	100.0
0°-180°	8911.9	100.0

Coefficient of Utilization

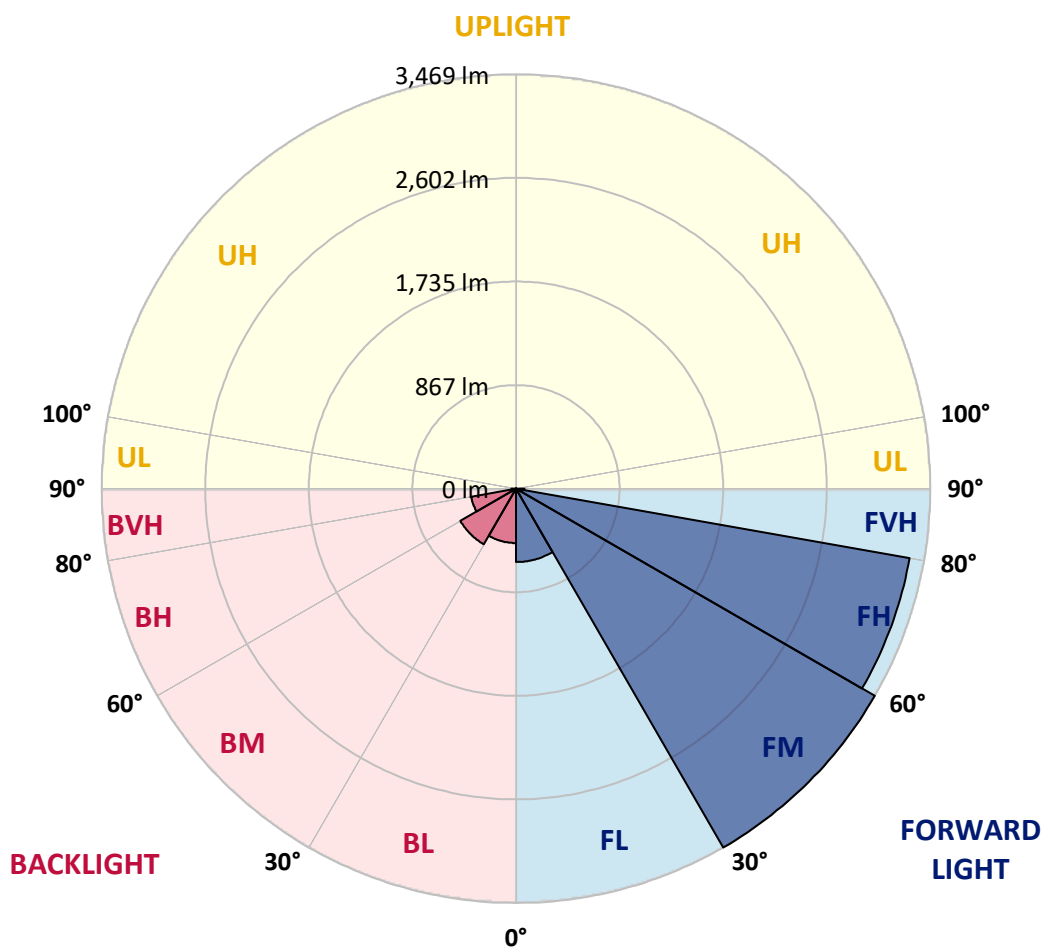


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.1	6.9			
FM (30°-60°)	3469.3	38.9			
FH (60°-80°)	3346.6	37.6			G2/5000
FVH (80°-90°)	71.0	0.8			G1/100
BL (0°-30°)	455.5	5.1	B1/500		
BM (30°-60°)	538.3	6.0	B1/1000		
BH (60°-80°)	381.2	4.3	B1/500		G1/500
BVH (80°-90°)	35.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7
2.5°	1273.8	1268.6	1274.9	1268.6	1296.8	1313.5	1318.8	1326.1	1352.2	1377.3
5°	1220.5	1197.5	1222.6	1231.0	1233.1	1261.3	1290.5	1295.8	1309.3	1350.1
7.5°	1131.7	1157.8	1148.4	1173.5	1199.6	1227.8	1275.9	1262.3	1312.5	1351.1
10°	1112.9	1115.0	1125.4	1134.8	1157.8	1194.4	1261.3	1252.9	1304.1	1386.7
12.5°	1131.7	1131.7	1128.6	1121.3	1147.4	1182.9	1236.2	1240.4	1320.8	1397.1
15°	1197.5	1210.1	1176.6	1181.9	1171.4	1182.9	1229.9	1239.3	1327.1	1405.5
17.5°	1358.5	1354.3	1314.6	1259.2	1213.2	1205.9	1238.3	1248.7	1320.8	1429.5
20°	1515.2	1506.8	1437.9	1380.4	1289.5	1246.6	1251.9	1252.9	1331.3	1445.2
22.5°	1689.7	1711.7	1636.4	1519.4	1406.5	1299.9	1279.0	1295.8	1355.3	1453.6
25°	1963.5	1916.5	1851.7	1698.1	1516.3	1382.5	1324.0	1332.3	1378.3	1474.5
27.5°	2161.0	2142.2	2040.8	1916.5	1669.9	1447.3	1348.0	1363.7	1420.1	1473.4
30°	2351.2	2351.2	2289.5	2103.5	1831.8	1556.0	1399.2	1391.9	1400.3	1471.3
32.5°	2573.8	2543.5	2454.6	2331.3	2035.6	1655.2	1440.0	1442.1	1442.1	1510.0
35°	2690.8	2739.9	2680.3	2479.7	2191.3	1820.3	1538.2	1522.5	1511.0	1552.8
37.5°	2862.2	2891.4	2828.7	2710.7	2384.6	1954.1	1624.9	1612.4	1545.5	1586.3
40°	2965.6	2960.4	2958.3	2904.0	2640.6	2111.9	1752.4	1720.0	1630.2	1704.3
42.5°	3024.1	3013.7	3142.2	3108.8	2882.0	2343.9	1912.3	1894.5	1795.3	1914.4
45°	3090.0	3167.3	3272.8	3366.9	3163.1	2669.9	2182.9	2157.9	2069.0	2220.6
47.5°	3147.5	3242.5	3377.3	3477.7	3417.1	3024.1	2517.3	2523.6	2465.1	2620.8
50°	3243.6	3253.0	3435.9	3638.6	3685.6	3351.2	2966.7	2956.2	2930.1	3148.5
52.5°	3214.3	3242.5	3473.5	3732.6	3810.0	3697.1	3449.4	3480.8	3446.3	3721.1
55°	2737.8	2822.5	3450.5	3831.9	4104.6	4087.9	4070.2	4049.3	4047.2	4364.8
57.5°	2521.5	2590.5	3039.8	3941.6	4420.2	4543.5	4658.5	4681.5	4680.4	5063.9
60°	2379.4	2450.5	2873.7	3882.1	4688.8	5140.2	5360.7	5363.8	5357.6	5811.1
62.5°	2101.4	2170.4	2586.3	3556.0	4763.0	5690.9	6182.0	6222.8	5935.4	6454.8
65°	1767.0	1823.5	2190.3	3057.6	4565.5	6041.0	6799.6	6751.6	6422.4	6822.6
67°	1445.2	1482.8	1840.2	2625.0	4049.3	5872.7	6978.3	7018.0	6647.1	6838.3
67.5°	1353.2	1387.7	1725.2	2477.6	3852.8	5745.2	6984.6	6978.3	6651.2	6841.4
70°	939.4	954.1	1175.6	1704.3	2838.1	4853.9	6474.6	6489.3	6372.2	6470.5
72.5°	622.8	644.7	785.8	1074.2	1673.0	3532.0	5411.9	5568.6	5494.5	5305.3
75°	401.3	413.8	514.1	639.5	823.4	2011.6	3998.1	4102.6	3932.2	3281.2
77.5°	224.7	238.3	310.4	388.7	401.3	837.0	2245.6	2375.2	2012.6	1394.0
80°	140.0	157.8	234.1	230.9	191.2	307.2	925.8	991.7	804.6	479.6
82.5°	105.5	119.1	180.8	162.0	107.6	136.9	346.9	372.0	294.7	185.0
85°	72.1	90.9	130.6	100.3	56.4	65.8	137.9	148.4	134.8	89.9
87.5°	26.1	38.7	67.9	50.2	25.1	19.9	44.9	50.2	48.1	40.8
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°
1386.7	0°	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7	1386.7
1399.2	2.5°	1419.1	1433.7	1441.0	1483.9	1501.6	1498.5	1502.7	1508.9	1515.2	1523.6
1417.0	5°	1430.6	1475.5	1499.5	1549.7	1583.1	1568.5	1587.3	1582.1	1574.8	1573.7
1449.4	7.5°	1468.2	1525.7	1597.8	1611.3	1626.0	1589.4	1558.1	1515.2	1504.8	1468.2
1476.5	10°	1535.1	1582.1	1669.9	1675.1	1610.3	1516.3	1446.2	1357.4	1356.4	1303.1
1518.3	12.5°	1598.8	1652.1	1723.2	1692.9	1538.2	1409.7	1295.8	1198.6	1157.8	1130.7
1543.4	15°	1638.5	1726.3	1763.9	1633.3	1411.8	1238.3	1090.9	986.5	944.7	924.8
1574.8	17.5°	1675.1	1797.3	1780.6	1528.8	1256.1	1061.7	886.1	795.2	783.7	769.1
1624.9	20°	1725.2	1823.5	1721.1	1392.9	1079.5	833.9	722.1	678.2	688.6	694.9
1630.2	22.5°	1772.3	1837.1	1645.8	1244.6	852.7	660.4	605.0	614.4	630.1	651.0
1642.7	25°	1793.2	1859.0	1544.5	1039.7	648.9	555.9	543.4	559.1	585.2	586.2
1660.5	27.5°	1806.8	1843.3	1422.2	840.2	513.1	485.9	504.7	516.2	519.4	531.9
1698.1	30°	1830.8	1810.9	1267.5	600.9	430.5	431.6	455.6	455.6	455.6	465.0
1735.7	32.5°	1872.6	1789.0	1086.8	438.9	371.0	404.4	398.1	396.0	391.9	380.4
1783.8	35°	1898.7	1729.4	857.9	325.0	333.3	371.0	368.9	336.5	282.1	255.0
1906.0	37.5°	1953.0	1699.1	631.2	250.8	311.4	354.2	342.8	264.4	204.8	178.7
2057.5	40°	2070.1	1679.3	436.8	219.4	296.8	345.9	306.2	225.7	156.7	110.8
2291.6	42.5°	2213.2	1680.3	296.8	206.9	297.8	363.6	294.7	193.3	110.8	88.8
2604.1	45°	2405.5	1664.6	203.8	206.9	316.6	392.9	302.0	175.6	107.6	112.9
2995.9	47.5°	2612.4	1678.2	151.5	188.1	319.8	394.0	275.9	172.4	103.5	130.6
3422.3	50°	2853.8	1691.8	125.4	173.5	320.8	381.4	253.9	168.2	107.6	137.9
3911.3	52.5°	3102.5	1734.7	106.6	164.1	333.3	376.2	253.9	174.5	107.6	120.2
4534.1	55°	3473.5	1844.4	153.6	204.8	379.3	410.7	312.4	244.5	150.5	154.7
5130.8	57.5°	3883.1	1957.2	171.4	215.3	389.8	369.9	336.5	269.6	158.8	159.9
5594.8	60°	4152.7	1961.4	170.3	210.0	364.7	319.8	329.2	284.2	162.0	136.9
5882.1	62.5°	4260.3	1833.9	177.6	210.0	339.6	298.9	337.5	306.2	167.2	171.4
5963.6	65°	4138.1	1570.6	171.4	188.1	298.9	267.5	339.6	310.4	182.9	172.4
5817.3	67°	3946.9	1353.2	174.5	178.7	278.0	253.9	357.4	326.0	212.1	206.9
5741.1	67.5°	3892.5	1295.8	173.5	173.5	270.6	249.7	361.6	326.0	216.3	214.2
5067.1	70°	3430.6	1050.2	177.6	171.4	239.3	237.2	384.5	343.8	248.7	250.8
3722.2	72.5°	2611.4	796.3	176.6	171.4	207.9	226.8	387.7	355.3	270.6	250.8
2084.7	75°	1483.9	476.5	155.7	149.4	164.1	197.5	362.6	338.6	263.3	224.7
832.8	77.5°	613.4	245.6	143.2	134.8	135.8	160.9	302.0	315.6	250.8	191.2
278.0	80°	228.8	147.3	114.9	107.6	104.5	118.1	215.3	251.8	214.2	156.7
122.3	82.5°	119.1	92.0	78.4	78.4	71.1	75.2	116.0	167.2	162.0	107.6
49.1	85°	60.6	52.2	44.9	43.9	39.7	35.5	58.5	99.3	93.0	59.6
21.9	87.5°	32.4	29.3	18.8	17.8	14.6	9.4	10.4	19.9	32.4	26.1
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>
1386.7
1531.9
1583.1
1480.7
1301.0
1124.4
920.6
776.4
687.6
639.5
596.7
543.4
475.5
374.1
267.5
177.6
107.6
86.7
114.9
145.3
159.9
123.3
163.0
154.7
141.1
173.5
169.3
203.8
210.0
232.0
222.6
200.6
180.8
143.2
84.6
49.1
18.8
0.0

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