

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: P477800

Luminaire Tested: **IFLD-S-SA2A-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477800
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

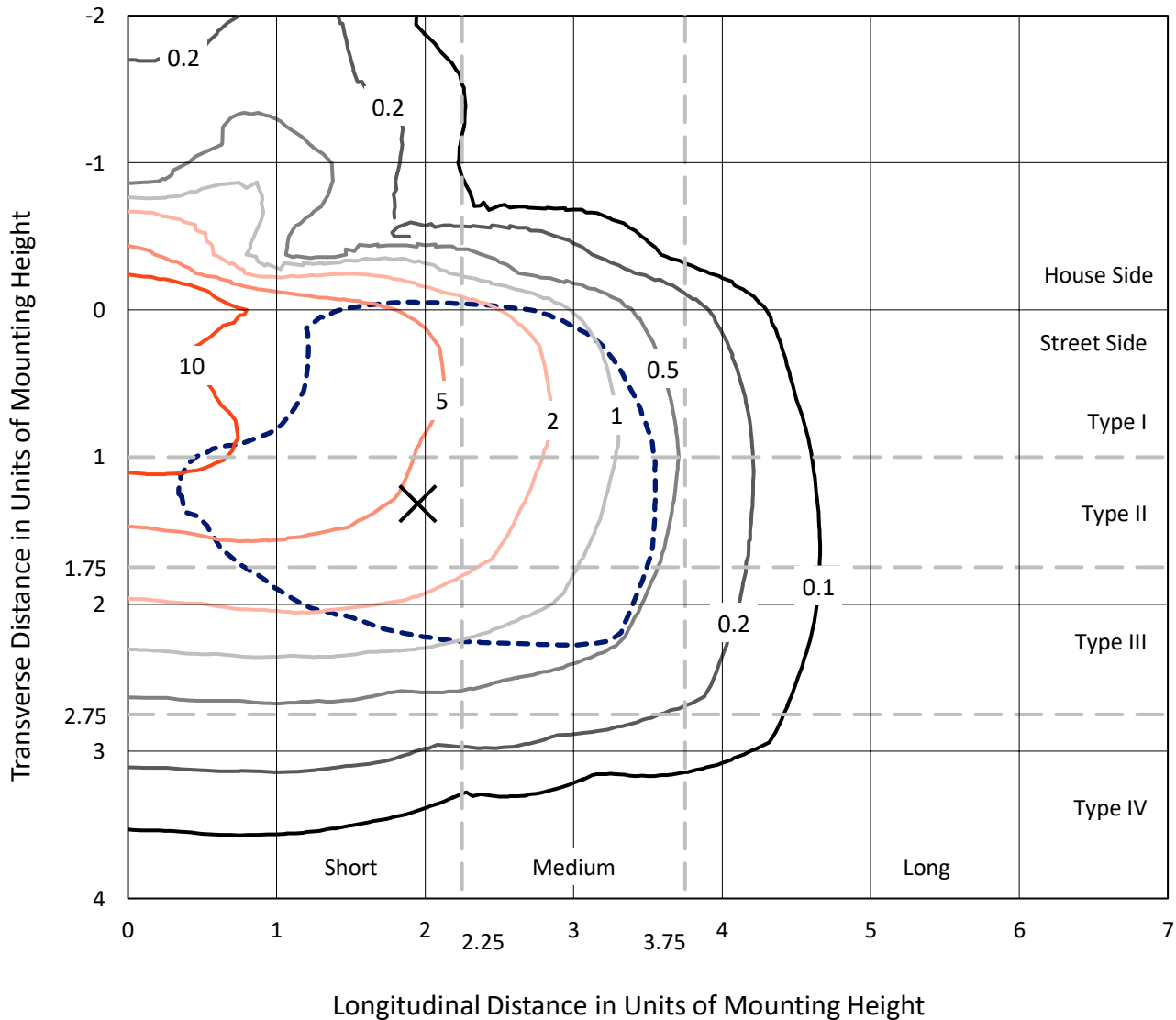
Lumens per Lamp: N/A
Luminaire Lumens: 9276.5 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

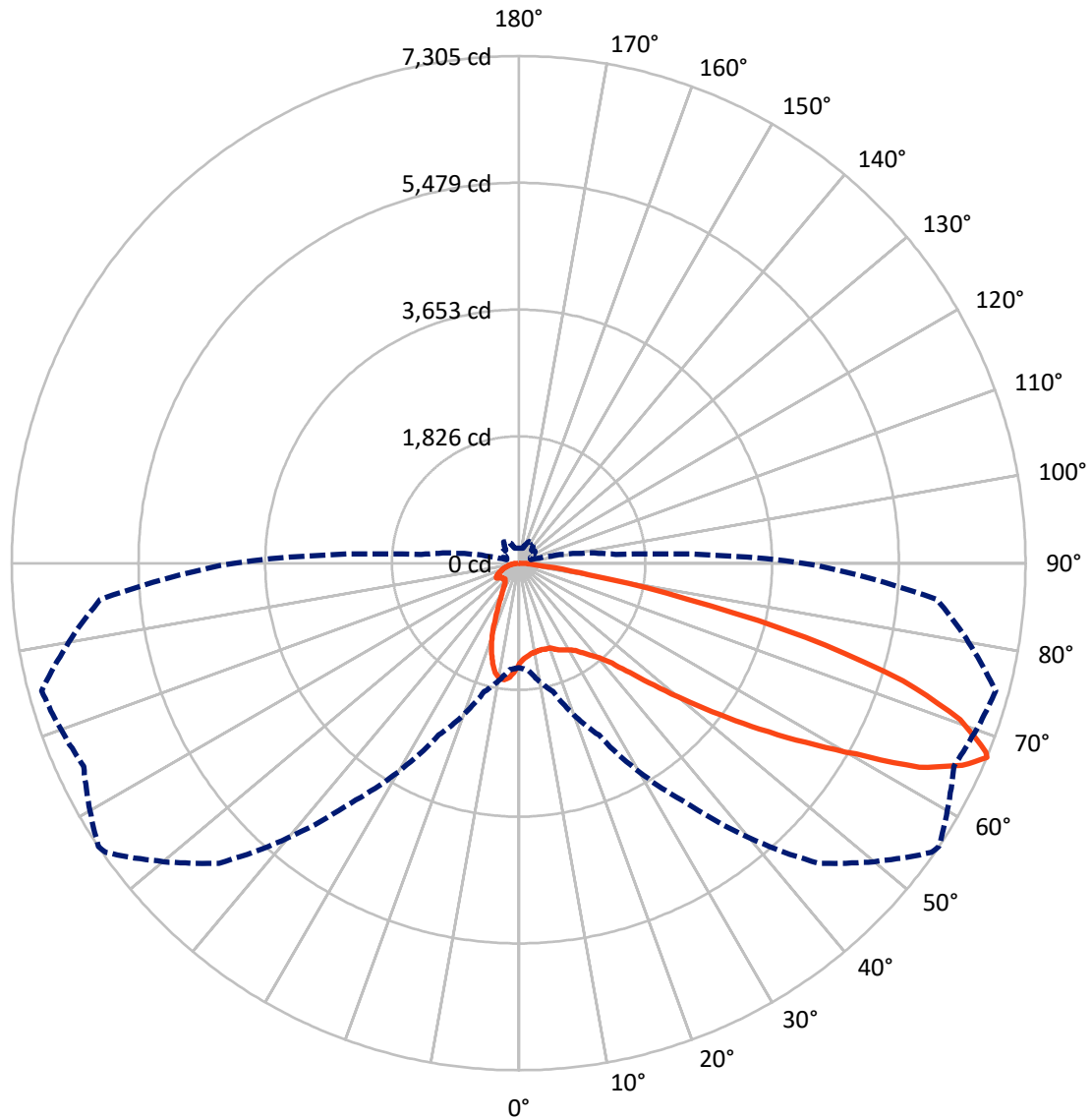
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 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	1468.6	0.0	1468.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	7807.9	0.0	7807.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	9276.5	0.0	9276.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.5
10°-20°	379.4	4.1
20°-30°	594.9	6.4
30°-40°	849.3	9.2
40°-50°	1281.8	13.8
50°-60°	2040.4	22.0
60°-70°	2608.5	28.1
70°-80°	1271.8	13.7
80°-90°	111.3	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°	9276.5	100.0
0°-180°	9276.5	100.0

Coefficient of Utilization

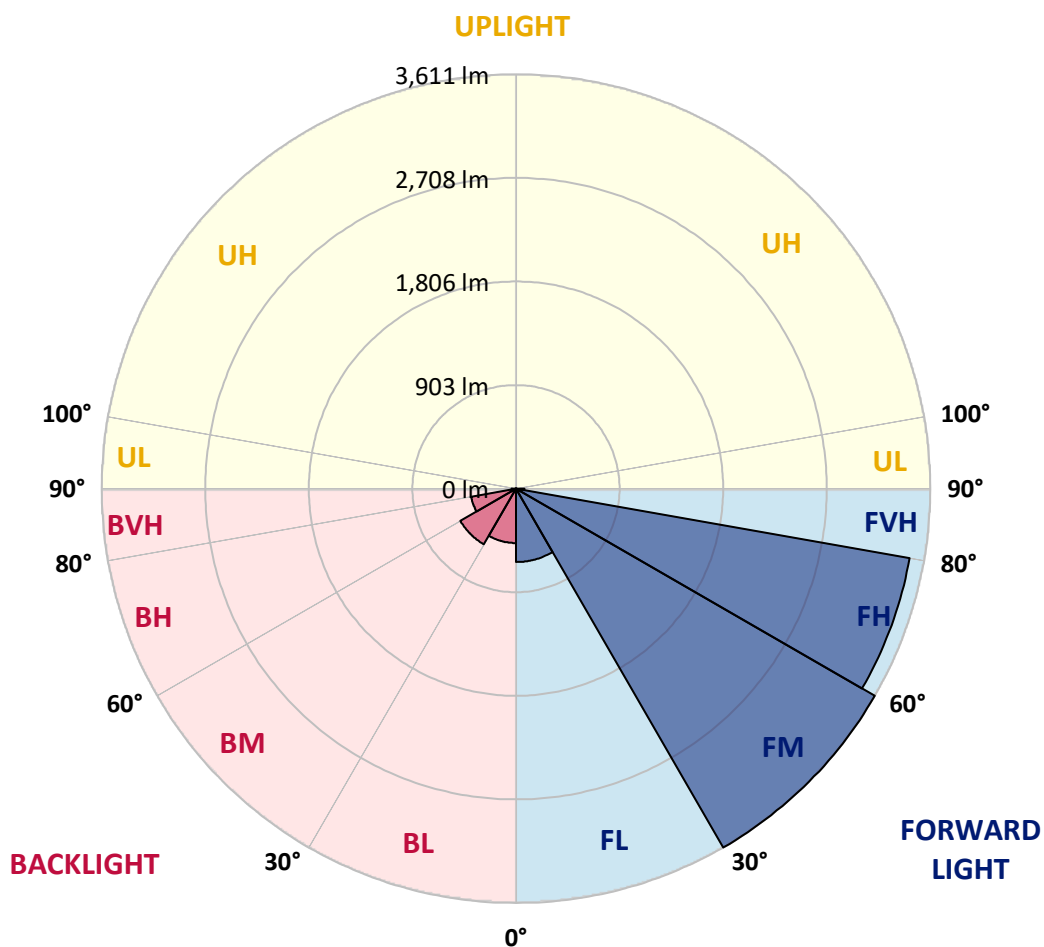


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.3	6.9			
FM (30°-60°)	3611.2	38.9			
FH (60°-80°)	3483.5	37.6			G2/5000
FVH (80°-90°)	73.9	0.8			G1/100
BL (0°-30°)	474.1	5.1	B1/500		
BM (30°-60°)	560.3	6.0	B1/1000		
BH (60°-80°)	396.8	4.3	B1/500		G1/500
BVH (80°-90°)	37.4	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°	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4
2.5°	1325.9	1320.5	1327.0	1320.5	1349.8	1367.3	1372.7	1380.3	1407.5	1433.6
5°	1270.4	1246.5	1272.6	1281.3	1283.5	1312.9	1343.3	1348.8	1362.9	1405.3
7.5°	1178.0	1205.2	1195.4	1221.5	1248.7	1278.1	1328.1	1314.0	1366.2	1406.4
10°	1158.4	1160.6	1171.5	1181.3	1205.2	1243.3	1312.9	1304.2	1357.5	1443.4
12.5°	1178.0	1178.0	1174.7	1167.1	1194.3	1231.3	1286.8	1291.1	1374.9	1454.3
15°	1246.5	1259.6	1224.8	1230.2	1219.3	1231.3	1280.2	1290.0	1381.4	1463.0
17.5°	1414.0	1409.7	1368.3	1310.7	1262.8	1255.2	1288.9	1299.8	1374.9	1488.0
20°	1577.2	1568.5	1496.7	1436.9	1342.2	1297.6	1303.1	1304.2	1385.7	1504.3
22.5°	1758.8	1781.7	1703.4	1581.5	1464.1	1353.1	1331.4	1348.8	1410.8	1513.0
25°	2043.8	1994.9	1927.4	1767.5	1578.3	1439.0	1378.1	1386.8	1434.7	1534.8
27.5°	2249.4	2229.8	2124.3	1994.9	1738.2	1506.5	1403.1	1419.5	1478.2	1533.7
30°	2447.3	2447.3	2383.2	2189.6	1906.8	1619.6	1456.4	1448.8	1457.5	1531.5
32.5°	2679.0	2647.5	2555.0	2426.7	2118.9	1722.9	1498.9	1501.0	1501.0	1571.7
35°	2800.9	2852.0	2790.0	2581.1	2280.9	1894.8	1601.1	1584.8	1572.8	1616.3
37.5°	2979.2	3009.7	2944.4	2821.5	2482.2	2034.0	1691.4	1678.3	1608.7	1651.1
40°	3086.9	3081.5	3079.3	3022.7	2748.6	2198.3	1824.1	1790.4	1696.8	1774.1
42.5°	3147.8	3137.0	3270.7	3235.9	2999.9	2439.7	1990.5	1972.0	1868.7	1992.7
45°	3216.4	3296.9	3406.7	3504.6	3292.5	2779.1	2272.2	2246.1	2153.7	2311.4
47.5°	3276.2	3375.2	3515.5	3619.9	3556.8	3147.8	2620.3	2626.8	2565.9	2728.0
50°	3376.3	3386.0	3576.4	3787.4	3836.4	3488.3	3088.0	3077.1	3049.9	3277.3
52.5°	3345.8	3375.2	3615.5	3885.3	3965.8	3848.3	3590.5	3623.2	3587.3	3873.3
55°	2849.8	2937.9	3591.6	3988.6	4272.5	4255.1	4236.6	4214.9	4212.7	4543.4
57.5°	2624.6	2696.4	3164.1	4102.8	4601.0	4729.4	4849.0	4872.9	4871.9	5271.0
60°	2476.7	2550.7	2991.2	4040.8	4880.6	5350.4	5580.0	5583.2	5576.7	6048.8
62.5°	2187.4	2259.2	2692.1	3701.5	4957.8	5923.7	6434.9	6477.3	6178.2	6718.8
65°	1839.3	1898.1	2279.8	3182.6	4752.2	6288.1	7077.7	7027.7	6685.1	7101.7
67°	1504.3	1543.5	1915.5	2732.3	4214.9	6112.9	7263.7	7305.1	6918.9	7118.0
67.5°	1408.6	1444.5	1795.8	2579.0	4010.4	5980.2	7270.3	7263.7	6923.3	7121.2
70°	977.9	993.1	1223.7	1774.1	2954.2	5052.4	6739.5	6754.7	6632.9	6735.1
72.5°	648.3	671.1	818.0	1118.2	1741.4	3676.5	5633.3	5796.4	5719.2	5522.3
75°	417.7	430.7	535.2	665.7	857.1	2093.8	4161.6	4270.4	4093.1	3415.4
77.5°	233.9	248.0	323.1	404.6	417.7	871.3	2337.5	2472.4	2094.9	1451.0
80°	145.8	164.2	243.6	240.4	199.1	319.8	963.7	1032.2	837.5	499.3
82.5°	109.9	124.0	188.2	168.6	112.0	142.5	361.1	387.2	306.7	192.5
85°	75.1	94.6	136.0	104.4	58.7	68.5	143.6	154.5	140.3	93.5
87.5°	27.2	40.2	70.7	52.2	26.1	20.7	46.8	52.2	50.0	42.4
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°
1443.4	0°	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4	1443.4
1456.4	2.5°	1477.1	1492.3	1500.0	1544.5	1563.0	1559.8	1564.1	1570.7	1577.2	1585.9
1474.9	5°	1489.1	1535.8	1560.9	1613.1	1647.9	1632.7	1652.2	1646.8	1639.2	1638.1
1508.7	7.5°	1528.2	1588.1	1663.1	1677.2	1692.5	1654.4	1621.8	1577.2	1566.3	1528.2
1536.9	10°	1597.8	1646.8	1738.2	1743.6	1676.2	1578.3	1505.4	1412.9	1411.8	1356.4
1580.4	12.5°	1664.2	1719.7	1793.6	1762.1	1601.1	1467.3	1348.8	1247.6	1205.2	1176.9
1606.5	15°	1705.5	1796.9	1836.1	1700.1	1469.5	1288.9	1135.6	1026.8	983.3	962.6
1639.2	17.5°	1743.6	1870.9	1853.5	1591.3	1307.4	1105.1	922.4	827.7	815.8	800.6
1691.4	20°	1795.8	1898.1	1791.5	1449.9	1123.6	868.0	751.6	705.9	716.8	723.3
1696.8	22.5°	1844.8	1912.2	1713.1	1295.5	887.6	687.4	629.8	639.6	655.9	677.6
1709.9	25°	1866.5	1935.0	1607.6	1082.3	675.5	578.7	565.6	581.9	609.1	610.2
1728.4	27.5°	1880.7	1918.7	1480.4	874.5	534.1	505.8	525.4	537.3	540.6	553.6
1767.5	30°	1905.7	1885.0	1319.4	625.4	448.1	449.2	474.2	474.2	474.2	484.0
1806.7	32.5°	1949.2	1862.2	1131.2	456.8	386.1	420.9	414.4	412.2	407.9	395.9
1856.7	35°	1976.4	1800.2	893.0	338.3	347.0	386.1	384.0	350.2	293.7	265.4
1984.0	37.5°	2032.9	1768.6	657.0	261.1	324.1	368.7	356.8	275.2	213.2	186.0
2141.7	40°	2154.8	1748.0	454.7	228.4	308.9	360.0	318.7	234.9	163.2	115.3
2385.3	42.5°	2303.8	1749.0	308.9	215.4	310.0	378.5	306.7	201.2	115.3	92.5
2710.6	45°	2503.9	1732.7	212.1	215.4	329.6	409.0	314.3	182.7	112.0	117.5
3118.5	47.5°	2719.3	1746.9	157.7	195.8	332.8	410.1	287.2	179.5	107.7	136.0
3562.3	50°	2970.5	1761.0	130.5	180.6	333.9	397.0	264.3	175.1	112.0	143.6
4071.3	52.5°	3229.4	1805.6	110.9	170.8	347.0	391.6	264.3	181.6	112.0	125.1
4719.6	55°	3615.5	1919.8	159.9	213.2	394.8	427.5	325.2	254.5	156.6	161.0
5340.7	57.5°	4041.9	2037.3	178.4	224.1	405.7	385.0	350.2	280.6	165.3	166.4
5823.6	60°	4322.6	2041.6	177.3	218.6	379.6	332.8	342.6	295.9	168.6	142.5
6122.7	62.5°	4434.6	1908.9	184.9	218.6	353.5	311.1	351.3	318.7	174.0	178.4
6207.6	65°	4307.3	1634.8	178.4	195.8	311.1	278.5	353.5	323.1	190.3	179.5
6055.3	67°	4108.3	1408.6	181.6	186.0	289.3	264.3	372.0	339.4	220.8	215.4
5975.9	67.5°	4051.7	1348.8	180.6	180.6	281.7	260.0	376.3	339.4	225.2	223.0
5274.3	70°	3571.0	1093.1	184.9	178.4	249.1	246.9	400.3	357.9	258.9	261.1
3874.4	72.5°	2718.2	828.8	183.8	178.4	216.5	236.0	403.5	369.8	281.7	261.1
2170.0	75°	1544.5	496.0	162.1	155.5	170.8	205.6	377.4	352.4	274.1	233.9
866.9	77.5°	638.5	255.6	149.0	140.3	141.4	167.5	314.3	328.5	261.1	199.1
289.3	80°	238.2	153.4	119.6	112.0	108.8	122.9	224.1	262.1	223.0	163.2
127.3	82.5°	124.0	95.7	81.6	81.6	74.0	78.3	120.7	174.0	168.6	112.0
51.1	85°	63.1	54.4	46.8	45.7	41.3	37.0	60.9	103.3	96.8	62.0
22.8	87.5°	33.7	30.5	19.6	18.5	15.2	9.8	10.9	20.7	33.7	27.2
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>
1443.4
1594.6
1647.9
1541.3
1354.2
1170.4
958.3
808.2
715.7
665.7
621.1
565.6
494.9
389.4
278.5
184.9
112.0
90.3
119.6
151.2
166.4
128.3
169.7
161.0
146.8
180.6
176.2
<i>212.1</i>
218.6
241.5
231.7
208.8
188.2
149.0
88.1
51.1
19.6
0.0

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