

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: P477883

Luminaire Tested: **IFLD-S-SA3A-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477883
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

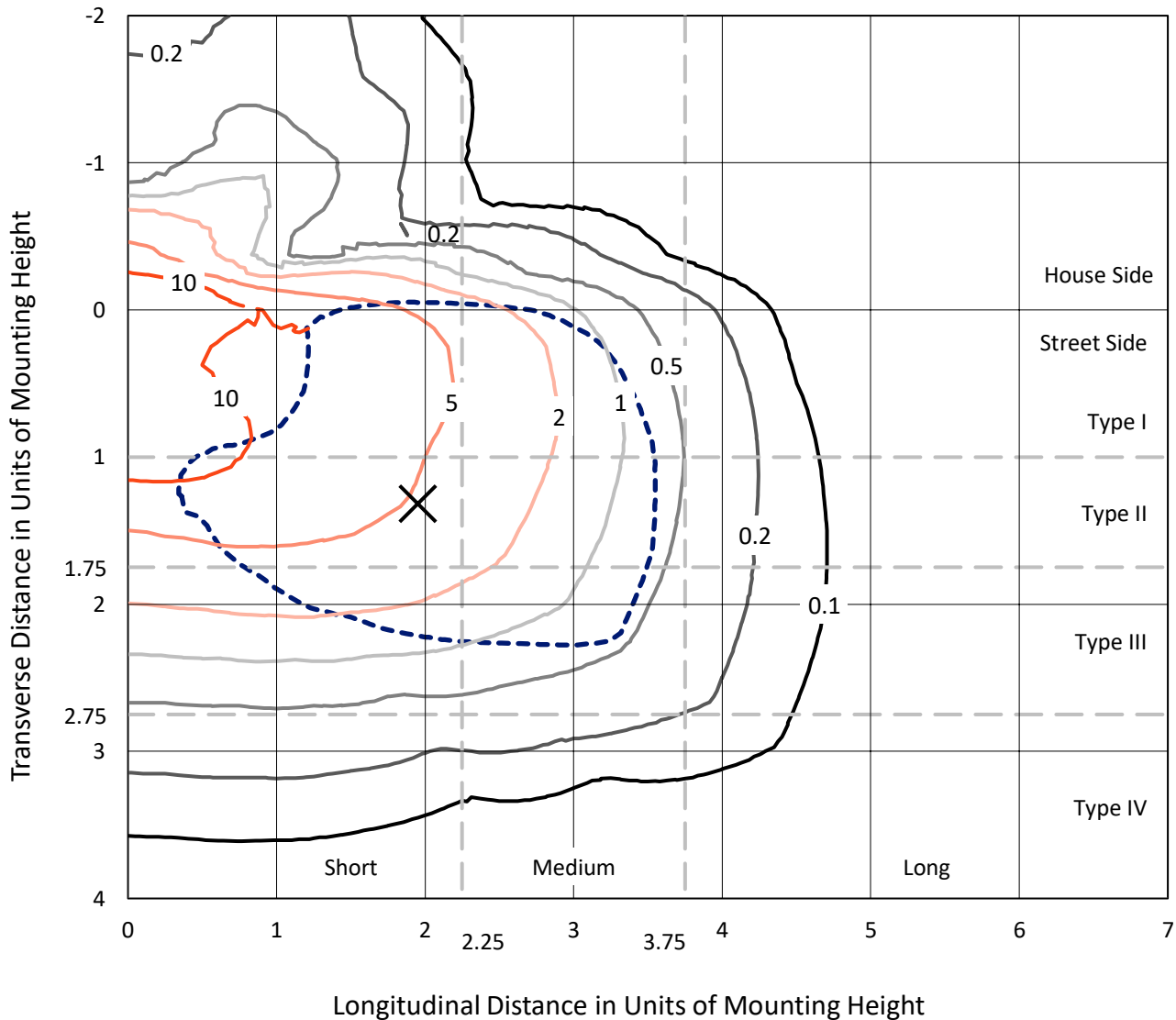
Lumens per Lamp: N/A
Luminaire Lumens: 9934.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

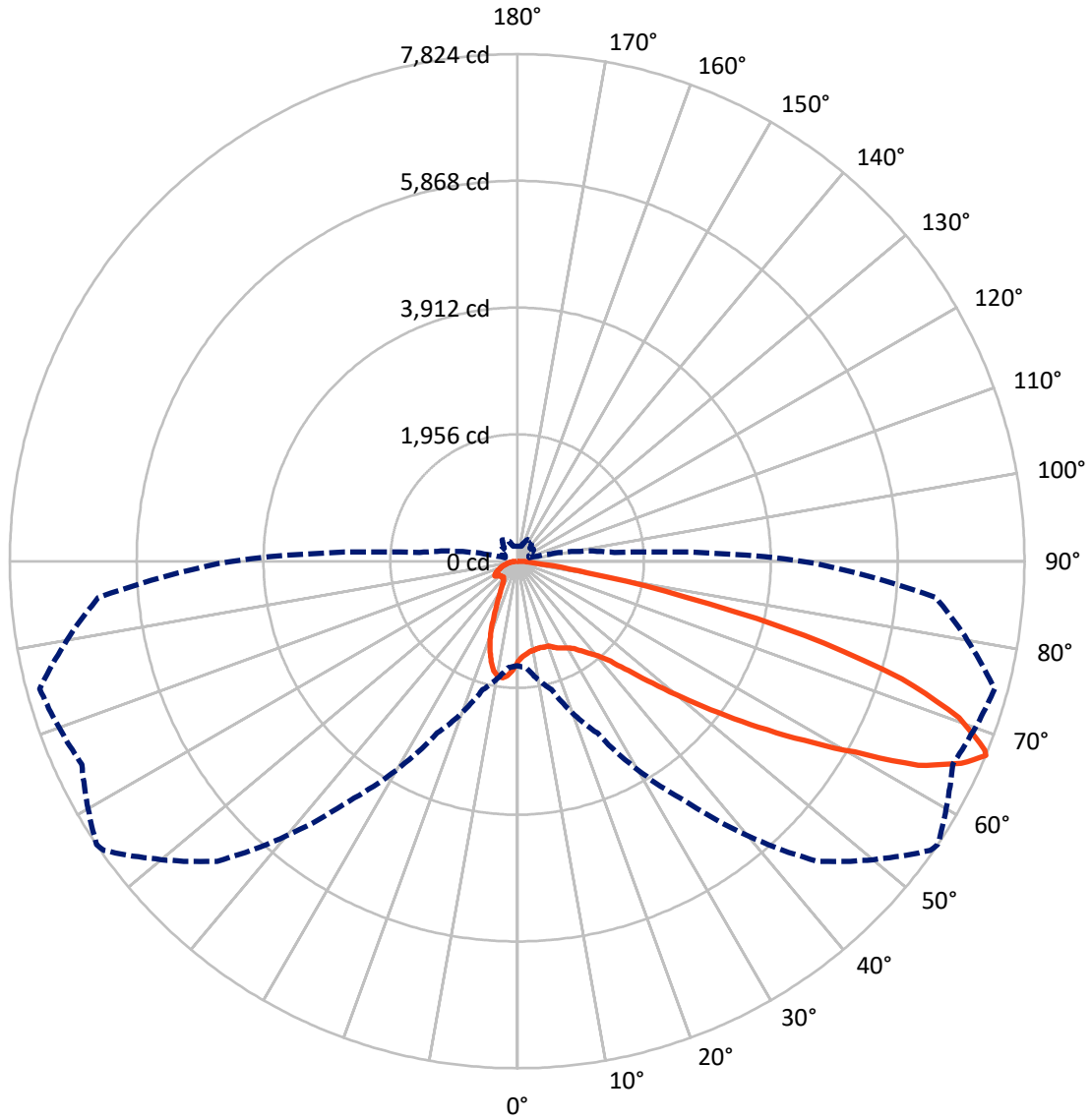
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 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	1572.8	0.0	1572.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	8362.1	0.0	8362.1
	% Fixture	84.2	0.0	84.2
Total	Lumens	9934.8	0.0	9934.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.5
10°-20°	406.3	4.1
20°-30°	637.2	6.4
30°-40°	909.6	9.2
40°-50°	1372.8	13.8
50°-60°	2185.2	22.0
60°-70°	2793.7	28.1
70°-80°	1362.1	13.7
80°-90°	119.2	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°	9934.8	100.0
0°-180°	9934.8	100.0

Coefficient of Utilization

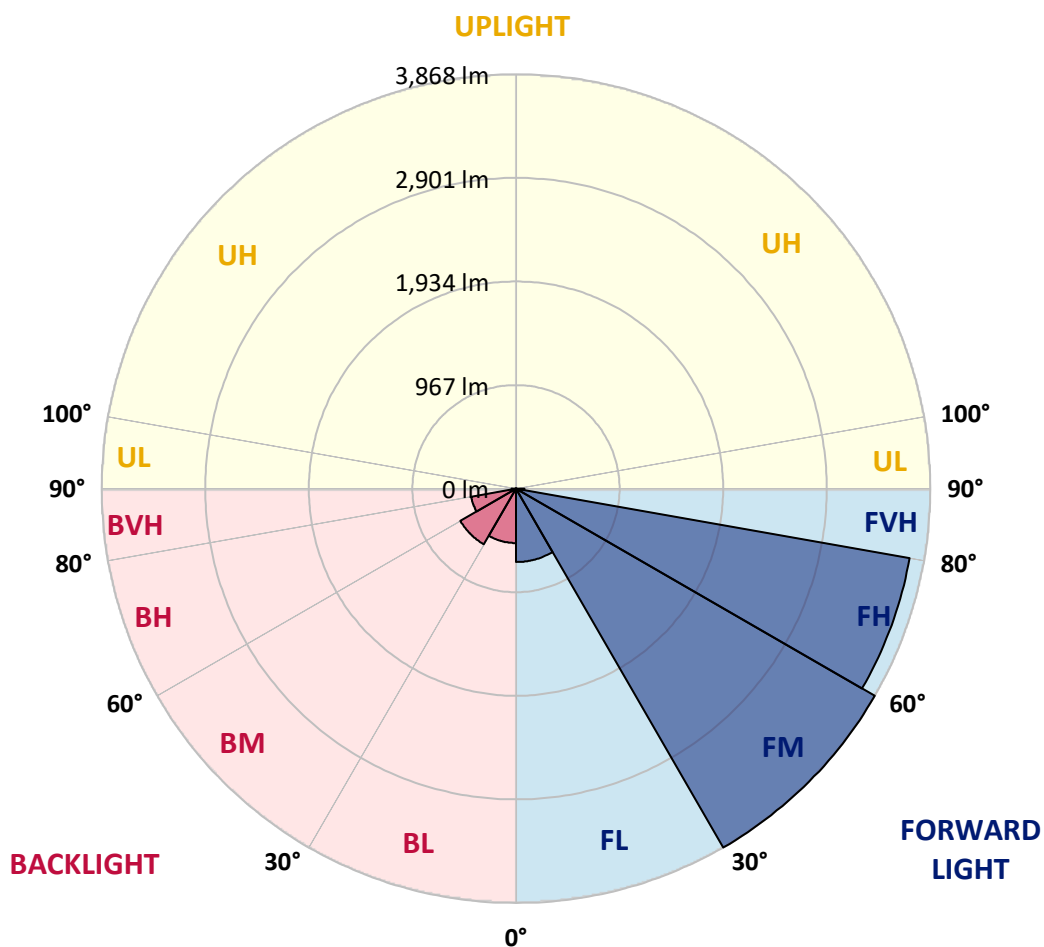


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.6	6.9			
FM (30°-60°)	3867.5	38.9			
FH (60°-80°)	3730.8	37.6			G2/5000
FVH (80°-90°)	79.1	0.8			G1/100
BL (0°-30°)	507.7	5.1	B2/1000		
BM (30°-60°)	600.0	6.0	B1/1000		
BH (60°-80°)	425.0	4.3	B1/500		G1/500
BVH (80°-90°)	40.0	0.4			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°	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8
2.5°	1420.0	1414.2	1421.2	1414.2	1445.7	1464.3	1470.1	1478.3	1507.4	1535.4
5°	1360.6	1335.0	1362.9	1372.3	1374.6	1406.0	1438.7	1444.5	1459.6	1505.1
7.5°	1261.6	1290.7	1280.2	1308.2	1337.3	1368.8	1422.4	1407.2	1463.1	1506.2
10°	1240.6	1243.0	1254.6	1265.1	1290.7	1331.5	1406.0	1396.7	1453.8	1545.8
12.5°	1261.6	1261.6	1258.1	1249.9	1279.1	1318.7	1378.1	1382.7	1472.4	1557.5
15°	1335.0	1349.0	1311.7	1317.5	1305.9	1318.7	1371.1	1381.6	1479.4	1566.8
17.5°	1514.4	1509.7	1465.5	1403.7	1352.5	1344.3	1380.4	1392.1	1472.4	1593.6
20°	1689.1	1679.8	1602.9	1538.8	1437.5	1389.7	1395.6	1396.7	1484.1	1611.1
22.5°	1883.7	1908.1	1824.2	1693.8	1568.0	1449.1	1425.8	1444.5	1510.9	1620.4
25°	2188.9	2136.4	2064.2	1893.0	1690.3	1541.2	1475.9	1485.3	1536.5	1643.7
27.5°	2409.0	2388.1	2275.1	2136.4	1861.5	1613.4	1502.7	1520.2	1583.1	1642.5
30°	2621.0	2621.0	2552.3	2345.0	2042.1	1734.6	1559.8	1551.7	1561.0	1640.2
32.5°	2869.2	2835.4	2736.4	2598.9	2269.2	1845.2	1605.2	1607.6	1607.6	1683.3
35°	2999.6	3054.4	2988.0	2764.3	2442.8	2029.3	1714.7	1697.3	1684.5	1731.1
37.5°	3190.7	3223.3	3153.4	3021.8	2658.3	2178.4	1811.4	1797.5	1722.9	1768.3
40°	3306.0	3300.2	3297.9	3237.3	2943.7	2354.3	1953.6	1917.4	1817.3	1900.0
42.5°	3371.2	3359.6	3502.9	3465.6	3212.8	2612.9	2131.8	2112.0	2001.3	2134.1
45°	3444.6	3530.8	3648.5	3753.3	3526.2	2976.3	2433.5	2405.5	2306.5	2475.4
47.5°	3508.7	3614.7	3765.0	3876.8	3809.3	3371.2	2806.3	2813.3	2748.0	2921.6
50°	3615.9	3626.4	3830.2	4056.2	4108.6	3735.9	3307.2	3295.5	3266.4	3509.9
52.5°	3583.3	3614.7	3872.2	4161.1	4247.3	4121.5	3845.4	3880.3	3841.9	4148.2
55°	3052.1	3146.4	3846.5	4271.7	4575.8	4557.1	4537.3	4514.0	4511.7	4865.8
57.5°	2810.9	2887.8	3388.7	4394.0	4927.6	5065.0	5193.2	5218.8	5217.6	5645.2
60°	2652.5	2731.7	3203.5	4327.6	5227.0	5730.2	5976.0	5979.5	5972.5	6478.1
62.5°	2342.6	2419.5	2883.2	3964.2	5309.7	6344.1	6891.6	6937.0	6616.7	7195.6
65°	1969.9	2032.8	2441.7	3408.5	5089.5	6734.3	7580.1	7526.5	7159.5	7605.7
67°	1611.1	1653.0	2051.4	2926.3	4514.0	6546.8	7779.3	7823.5	7410.0	7623.2
67.5°	1508.6	1547.0	1923.3	2762.0	4295.0	6404.7	7786.3	7779.3	7414.7	7626.7
70°	1047.3	1063.6	1310.5	1900.0	3163.9	5411.0	7217.8	7234.1	7103.6	7213.1
72.5°	694.3	718.7	876.0	1197.5	1865.0	3937.4	6033.1	6207.8	6125.1	5914.2
75°	447.3	461.3	573.1	712.9	917.9	2242.5	4456.9	4573.4	4383.6	3657.8
77.5°	250.5	265.6	346.0	433.3	447.3	933.1	2503.4	2647.8	2243.6	1554.0
80°	156.1	175.9	260.9	257.4	213.2	342.5	1032.1	1105.5	897.0	534.7
82.5°	117.7	132.8	201.5	180.6	120.0	152.6	386.8	414.7	328.5	206.2
85°	80.4	101.3	145.6	111.8	62.9	73.4	153.8	165.4	150.3	100.2
87.5°	29.1	43.1	75.7	55.9	28.0	22.1	50.1	55.9	53.6	45.4
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°
1545.8	0°	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8
1559.8	2.5°	1581.9	1598.3	1606.4	1654.2	1674.0	1670.5	1675.1	1682.1	1689.1	1698.4
1579.6	5°	1594.8	1644.9	1671.6	1727.6	1764.8	1748.5	1769.5	1763.7	1755.5	1754.4
1615.7	7.5°	1636.7	1700.8	1781.1	1796.3	1812.6	1771.8	1736.9	1689.1	1677.5	1636.7
1646.0	10°	1711.3	1763.7	1861.5	1867.4	1795.1	1690.3	1612.2	1513.2	1512.1	1452.6
1692.6	12.5°	1782.3	1841.7	1920.9	1887.2	1714.7	1571.5	1444.5	1336.2	1290.7	1260.4
1720.6	15°	1826.6	1924.4	1966.4	1820.8	1573.8	1380.4	1216.2	1099.7	1053.1	1030.9
1755.5	17.5°	1867.4	2003.6	1985.0	1704.3	1400.2	1183.5	987.8	886.5	873.7	857.4
1811.4	20°	1923.3	2032.8	1918.6	1552.8	1203.4	929.6	805.0	756.0	767.7	774.7
1817.3	22.5°	1975.7	2047.9	1834.7	1387.4	950.6	736.2	674.5	685.0	702.4	725.7
1831.2	25°	1999.0	2072.4	1721.7	1159.1	723.4	619.7	605.8	623.2	652.3	653.5
1851.0	27.5°	2014.1	2054.9	1585.4	936.6	572.0	541.7	562.7	575.5	579.0	592.9
1893.0	30°	2040.9	2018.8	1413.0	669.8	479.9	481.1	507.9	507.9	507.9	518.4
1934.9	32.5°	2087.5	1994.3	1211.5	489.3	413.5	450.8	443.8	441.5	436.8	424.0
1988.5	35°	2116.6	1927.9	956.4	362.3	371.6	413.5	411.2	375.1	314.5	284.2
2124.8	37.5°	2177.2	1894.1	703.6	279.6	347.1	394.9	382.1	294.7	228.3	199.2
2293.7	40°	2307.7	1872.0	486.9	244.6	330.8	385.6	341.3	251.6	174.7	123.5
2554.6	42.5°	2467.3	1873.2	330.8	230.7	332.0	405.4	328.5	215.5	123.5	99.0
2903.0	45°	2681.6	1855.7	227.2	230.7	353.0	438.0	336.7	195.7	120.0	125.8
3339.8	47.5°	2912.3	1870.8	168.9	209.7	356.5	439.2	307.5	192.2	115.3	145.6
3815.1	50°	3181.4	1886.0	139.8	193.4	357.6	425.2	283.1	187.6	120.0	153.8
4360.3	52.5°	3458.6	1933.8	118.8	182.9	371.6	419.4	283.1	194.5	120.0	134.0
5054.5	55°	3872.2	2056.1	171.2	228.3	422.9	457.8	348.3	272.6	167.7	172.4
5719.7	57.5°	4328.8	2181.9	191.0	240.0	434.5	412.4	375.1	300.5	177.1	178.2
6236.9	60°	4629.4	2186.5	189.9	234.1	406.6	356.5	366.9	316.9	180.6	152.6
6557.3	62.5°	4749.3	2044.4	198.0	234.1	378.6	333.2	376.3	341.3	186.4	191.0
6648.1	65°	4613.0	1750.9	191.0	209.7	333.2	298.2	378.6	346.0	203.9	192.2
6485.1	67°	4399.9	1508.6	194.5	199.2	309.9	283.1	398.4	363.5	236.5	230.7
6400.0	67.5°	4339.3	1444.5	193.4	193.4	301.7	278.4	403.1	363.5	241.1	238.8
5648.6	70°	3824.4	1170.7	198.0	191.0	266.8	264.4	428.7	383.3	277.2	279.6
4149.4	72.5°	2911.1	887.7	196.9	191.0	231.8	252.8	432.2	396.1	301.7	279.6
2324.0	75°	1654.2	531.2	173.6	166.6	182.9	220.2	404.2	377.4	293.6	250.5
928.4	77.5°	683.8	273.8	159.6	150.3	151.4	179.4	336.7	351.8	279.6	213.2
309.9	80°	255.1	164.3	128.1	120.0	116.5	131.6	240.0	280.7	238.8	174.7
136.3	82.5°	132.8	102.5	87.4	87.4	79.2	83.9	129.3	186.4	180.6	120.0
54.8	85°	67.6	58.2	50.1	48.9	44.3	39.6	65.2	110.7	103.7	66.4
24.5	87.5°	36.1	32.6	21.0	19.8	16.3	10.5	11.6	22.1	36.1	29.1
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>
1545.8
1707.8
1764.8
1650.7
1450.3
1253.4
1026.3
865.5
766.5
712.9
665.2
605.8
530.0
417.0
298.2
198.0
120.0
96.7
128.1
161.9
178.2
137.5
181.7
172.4
157.3
193.4
188.7
227.2
234.1
258.6
248.1
223.7
201.5
159.6
94.4
54.8
21.0
0.0

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