

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: P477880

Luminaire Tested: **IFLD-S-SA2C-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477880
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

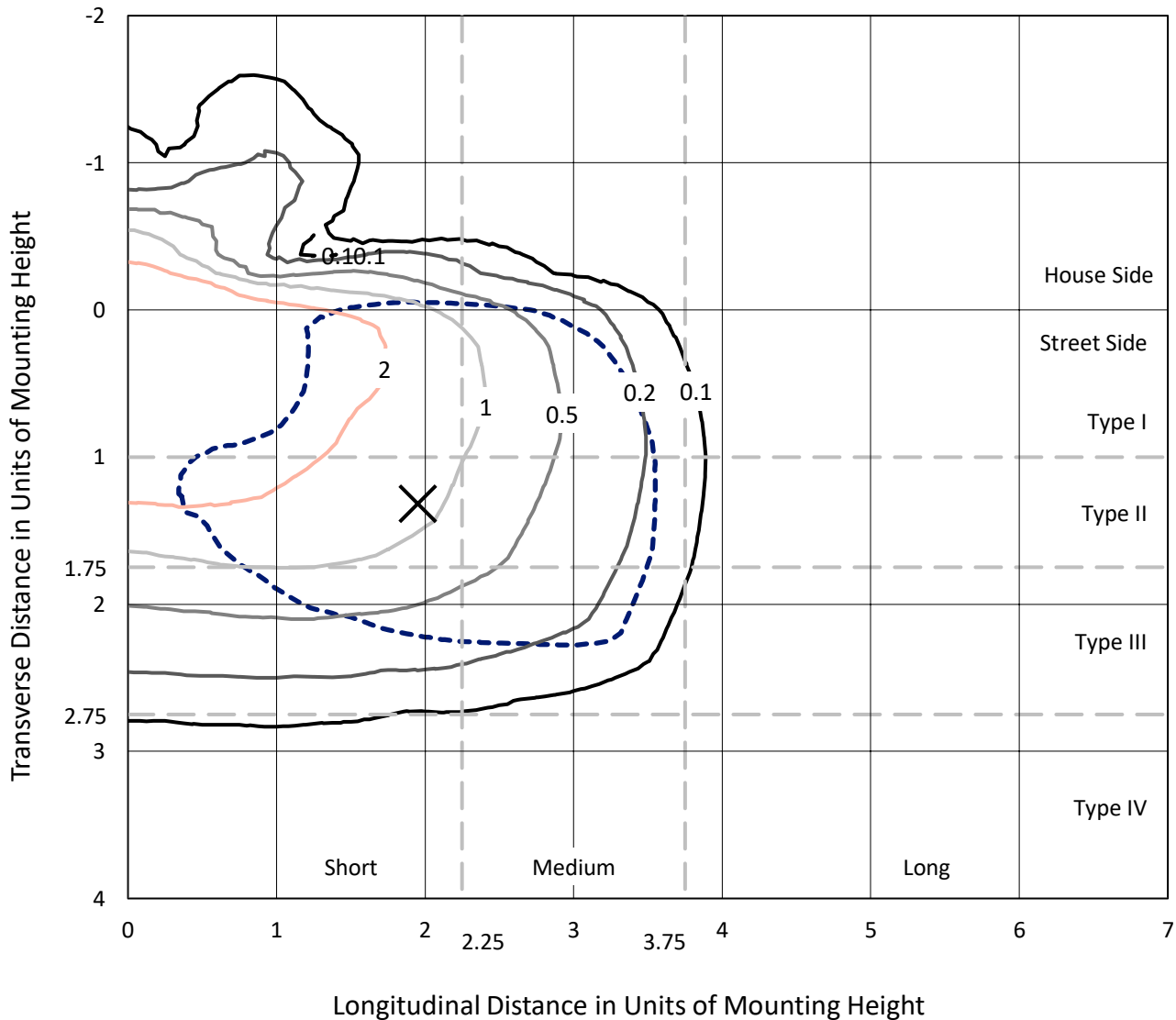
Lumens per Lamp: N/A
Luminaire Lumens: 10263.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

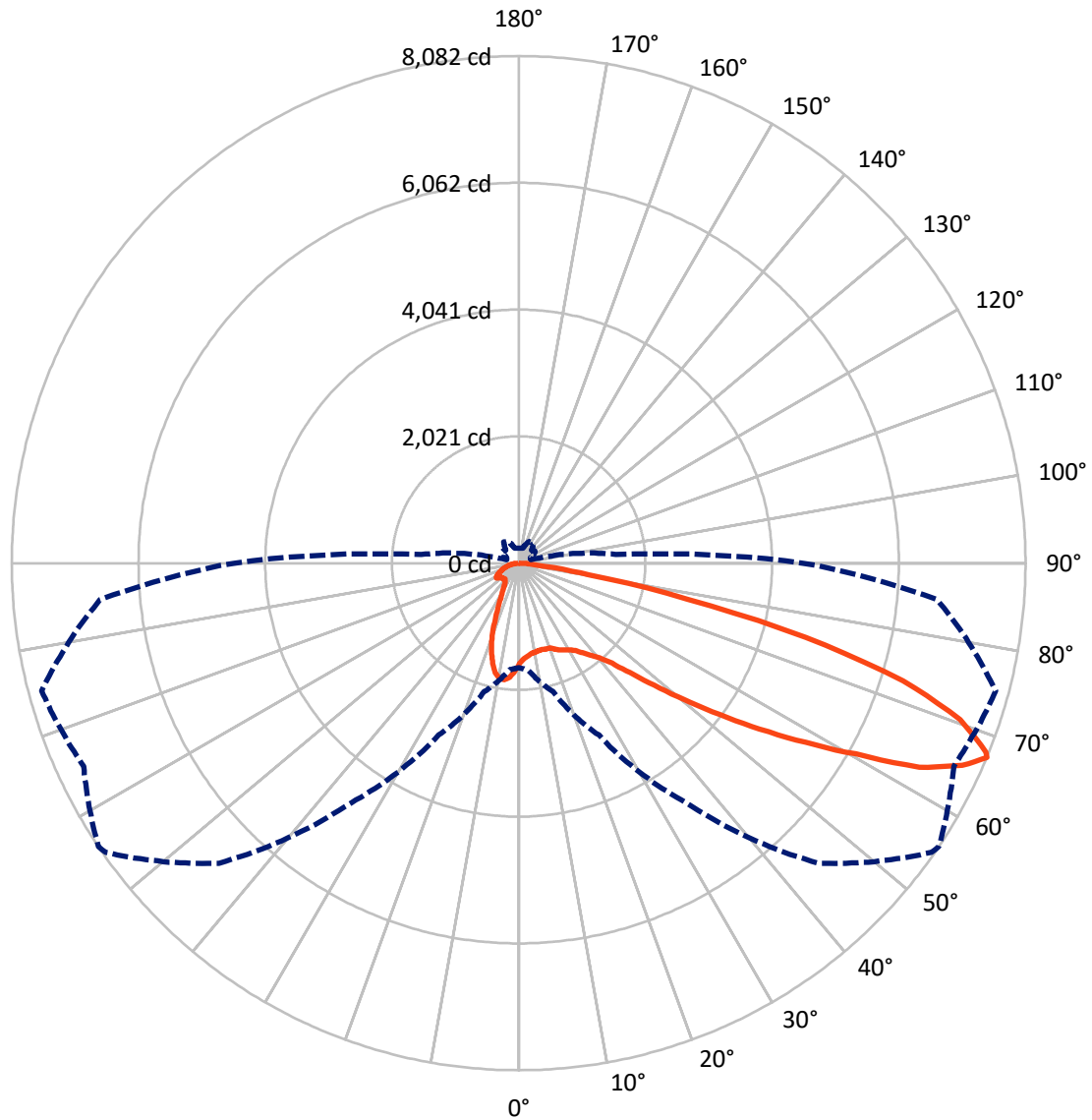
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	1624.8	0.0	1624.8
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	8638.5	0.0	8638.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	10263.3	0.0	10263.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.5
10°-20°	419.7	4.1
20°-30°	658.2	6.4
30°-40°	939.6	9.2
40°-50°	1418.2	13.8
50°-60°	2257.5	22.0
60°-70°	2886.0	28.1
70°-80°	1407.1	13.7
80°-90°	123.1	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°	10263.3	100.0
0°-180°	10263.3	100.0

Coefficient of Utilization

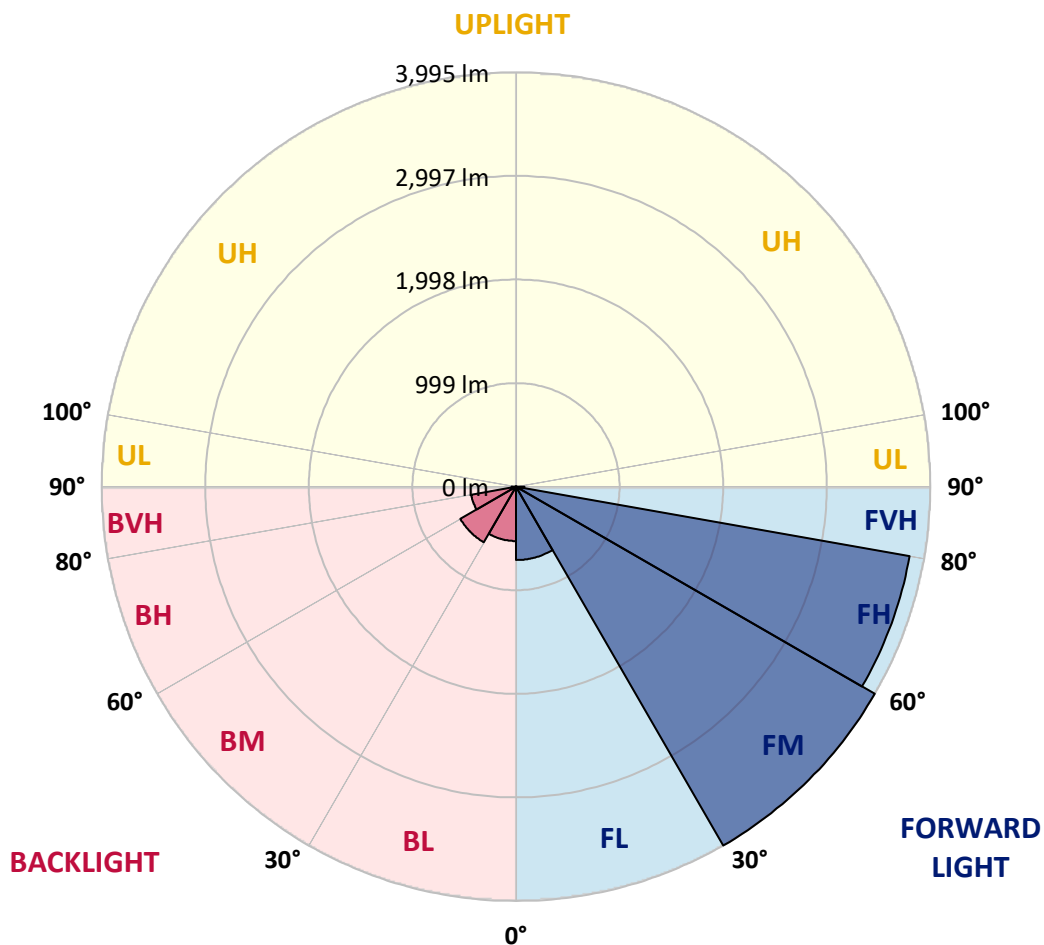


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.3	6.9			
FM (30°-60°)	3995.4	38.9			
FH (60°-80°)	3854.1	37.6			G2/5000
FVH (80°-90°)	81.7	0.8			G1/100
BL (0°-30°)	524.5	5.1	B2/1000		
BM (30°-60°)	619.9	6.0	B1/1000		
BH (60°-80°)	439.0	4.3	B1/500		G1/500
BVH (80°-90°)	41.3	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°	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9
2.5°	1467.0	1461.0	1468.2	1461.0	1493.4	1512.7	1518.7	1527.1	1557.2	1586.1
5°	1405.6	1379.1	1408.0	1417.6	1420.0	1452.5	1486.2	1492.2	1507.9	1554.8
7.5°	1303.3	1333.4	1322.6	1351.4	1381.5	1414.0	1469.4	1453.7	1511.5	1556.0
10°	1281.6	1284.1	1296.1	1306.9	1333.4	1375.5	1452.5	1442.9	1501.9	1596.9
12.5°	1303.3	1303.3	1299.7	1291.3	1321.4	1362.3	1423.6	1428.5	1521.1	1609.0
15°	1379.1	1393.6	1355.1	1361.1	1349.0	1362.3	1416.4	1427.3	1528.3	1618.6
17.5°	1564.5	1559.6	1513.9	1450.1	1397.2	1388.8	1426.1	1438.1	1521.1	1646.3
20°	1745.0	1735.3	1655.9	1589.7	1485.0	1435.7	1441.7	1442.9	1533.2	1664.3
22.5°	1945.9	1971.2	1884.6	1749.8	1619.8	1497.1	1473.0	1492.2	1560.8	1674.0
25°	2261.2	2207.1	2132.5	1955.6	1746.2	1592.1	1524.7	1534.4	1587.3	1698.0
27.5°	2488.7	2467.0	2350.3	2207.1	1923.1	1666.7	1552.4	1570.5	1635.5	1696.8
30°	2707.7	2707.7	2636.7	2422.5	2109.6	1791.9	1611.4	1603.0	1612.6	1694.4
32.5°	2964.0	2929.1	2826.8	2684.8	2344.3	1906.2	1658.3	1660.7	1660.7	1738.9
35°	3098.8	3155.4	3086.8	2855.7	2523.6	2096.4	1771.4	1753.4	1740.2	1788.3
37.5°	3296.2	3329.9	3257.7	3121.7	2746.2	2250.4	1871.3	1856.9	1779.9	1826.8
40°	3415.3	3409.3	3406.9	3344.3	3041.1	2432.1	2018.1	1980.8	1877.3	1962.8
42.5°	3482.7	3470.7	3618.7	3580.2	3319.0	2699.3	2202.3	2181.8	2067.5	2204.7
45°	3558.5	3647.6	3769.1	3877.4	3642.8	3074.7	2514.0	2485.1	2382.8	2557.3
47.5°	3624.7	3734.2	3889.5	4005.0	3935.2	3482.7	2899.0	2906.3	2838.9	3018.2
50°	3735.4	3746.3	3956.9	4190.3	4244.5	3859.4	3416.5	3404.5	3374.4	3625.9
52.5°	3701.7	3734.2	4000.2	4298.6	4387.7	4257.7	3972.5	4008.6	3968.9	4285.4
55°	3153.0	3250.4	3973.7	4413.0	4727.0	4707.8	4687.3	4663.3	4660.9	5026.7
57.5°	2903.9	2983.3	3500.8	4539.3	5090.5	5232.5	5364.9	5391.3	5390.1	5831.8
60°	2740.2	2822.0	3309.4	4470.7	5399.8	5919.6	6173.6	6177.2	6170.0	6692.2
62.5°	2420.1	2499.5	2978.5	4095.2	5485.2	6553.8	7119.5	7166.4	6835.4	7433.5
65°	2035.0	2100.0	2522.4	3521.2	5257.8	6957.0	7830.7	7775.3	7396.2	7857.2
67°	1664.3	1707.7	2119.2	3023.0	4663.3	6763.2	8036.5	8082.2	7655.0	7875.2
67.5°	1558.4	1598.1	1986.9	2853.3	4437.0	6616.4	8043.7	8036.5	7659.8	7878.8
70°	1081.9	1098.7	1353.9	1962.8	3268.5	5589.9	7456.4	7473.3	7338.5	7451.6
72.5°	717.2	742.5	905.0	1237.1	1926.7	4067.6	6232.5	6413.0	6327.6	6109.8
75°	462.1	476.6	592.1	736.5	948.3	2316.6	4604.3	4724.6	4528.5	3778.7
77.5°	258.7	274.4	357.4	447.7	462.1	963.9	2586.2	2735.4	2317.8	1605.4
80°	161.3	181.7	269.6	266.0	220.2	353.8	1066.2	1142.0	926.6	552.4
82.5°	121.5	137.2	208.2	186.5	124.0	157.6	399.5	428.4	339.4	213.0
85°	83.0	104.7	150.4	115.5	65.0	75.8	158.9	170.9	155.2	103.5
87.5°	30.1	44.5	78.2	57.8	28.9	22.9	51.7	57.8	55.4	46.9
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°
1596.9	0°	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9	1596.9
1611.4	2.5°	1634.2	1651.1	1659.5	1708.9	1729.3	1725.7	1730.5	1737.7	1745.0	1754.6
1631.8	5°	1647.5	1699.2	1726.9	1784.7	1823.2	1806.3	1828.0	1822.0	1813.6	1812.4
1669.1	7.5°	1690.8	1757.0	1840.0	1855.7	1872.5	1830.4	1794.3	1745.0	1732.9	1690.8
1700.4	10°	1767.8	1822.0	1923.1	1929.1	1854.5	1746.2	1665.5	1563.2	1562.0	1500.7
1748.6	12.5°	1841.2	1902.6	1984.4	1949.5	1771.4	1623.4	1492.2	1380.3	1333.4	1302.1
1777.5	15°	1887.0	1988.1	2031.4	1881.0	1625.8	1426.1	1256.4	1136.0	1087.9	1065.0
1813.6	17.5°	1929.1	2069.9	2050.6	1760.6	1446.5	1222.7	1020.5	915.8	902.6	885.7
1871.3	20°	1986.9	2100.0	1982.0	1604.2	1243.1	960.3	831.6	781.0	793.1	800.3
1877.3	22.5°	2041.0	2115.6	1895.4	1433.3	982.0	760.6	696.8	707.6	725.7	749.7
1891.8	25°	2065.1	2140.9	1778.7	1197.4	747.3	640.2	625.8	643.8	673.9	675.1
1912.2	27.5°	2080.7	2122.8	1637.9	967.6	590.9	559.6	581.3	594.5	598.1	612.5
1955.6	30°	2108.4	2085.5	1459.8	692.0	495.8	497.0	524.7	524.7	524.7	535.5
1998.9	32.5°	2156.5	2060.3	1251.6	505.4	427.2	465.7	458.5	456.1	451.3	438.0
2054.2	35°	2186.6	1991.7	988.0	374.3	383.9	427.2	424.8	387.5	324.9	293.6
2195.0	37.5°	2249.2	1956.8	726.9	288.8	358.6	408.0	394.7	304.5	235.9	205.8
2369.5	40°	2384.0	1933.9	503.0	252.7	341.8	398.3	352.6	259.9	180.5	127.6
2639.1	42.5°	2548.9	1935.1	341.8	238.3	343.0	418.8	339.4	222.6	127.6	102.3
2998.9	45°	2770.3	1917.1	234.7	238.3	364.6	452.5	347.8	202.2	124.0	130.0
3450.2	47.5°	3008.6	1932.7	174.5	216.6	368.2	453.7	317.7	198.6	119.1	150.4
3941.2	50°	3286.5	1948.3	144.4	199.8	369.5	439.2	292.4	193.8	124.0	158.9
4504.4	52.5°	3573.0	1997.7	122.7	188.9	383.9	433.2	292.4	201.0	124.0	138.4
5221.7	55°	4000.2	2124.0	176.9	235.9	436.8	472.9	359.8	281.6	173.3	178.1
5908.8	57.5°	4471.9	2254.0	197.4	247.9	448.9	426.0	387.5	310.5	182.9	184.1
6443.1	60°	4782.4	2258.8	196.2	241.9	420.0	368.2	379.1	327.3	186.5	157.6
6774.1	62.5°	4906.4	2112.0	204.6	241.9	391.1	344.2	388.7	352.6	192.5	197.4
6867.9	65°	4765.6	1808.7	197.4	216.6	344.2	308.1	391.1	357.4	210.6	198.6
6699.5	67°	4545.3	1558.4	201.0	205.8	320.1	292.4	411.6	375.5	244.3	238.3
6611.6	67.5°	4482.8	1492.2	199.8	199.8	311.7	287.6	416.4	375.5	249.1	246.7
5835.4	70°	3950.8	1209.4	204.6	197.4	275.6	273.2	442.9	395.9	286.4	288.8
4286.6	72.5°	3007.4	917.0	203.4	197.4	239.5	261.1	446.5	409.2	311.7	288.8
2400.8	75°	1708.9	548.8	179.3	172.1	188.9	227.4	417.6	389.9	303.3	258.7
959.1	77.5°	706.4	282.8	164.9	155.2	156.4	185.3	347.8	363.4	288.8	220.2
320.1	80°	263.5	169.7	132.4	124.0	120.3	136.0	247.9	290.0	246.7	180.5
140.8	82.5°	137.2	105.9	90.3	90.3	81.8	86.6	133.6	192.5	186.5	124.0
56.6	85°	69.8	60.2	51.7	50.5	45.7	40.9	67.4	114.3	107.1	68.6
25.3	87.5°	37.3	33.7	21.7	20.5	16.8	10.8	12.0	22.9	37.3	30.1
0.0	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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180°
1596.9
1764.2
1823.2
1705.3
1498.3
1294.9
1060.2
894.1
791.9
736.5
687.2
625.8
547.6
430.8
308.1
204.6
124.0
99.9
132.4
167.3
184.1
142.0
187.7
178.1
162.5
199.8
195.0
234.7
241.9
267.2
256.3
231.1
208.2
164.9
97.5
56.6
21.7
0.0

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