

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: P477611

Luminaire Tested: **IFLD-S-SA3B-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477611
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

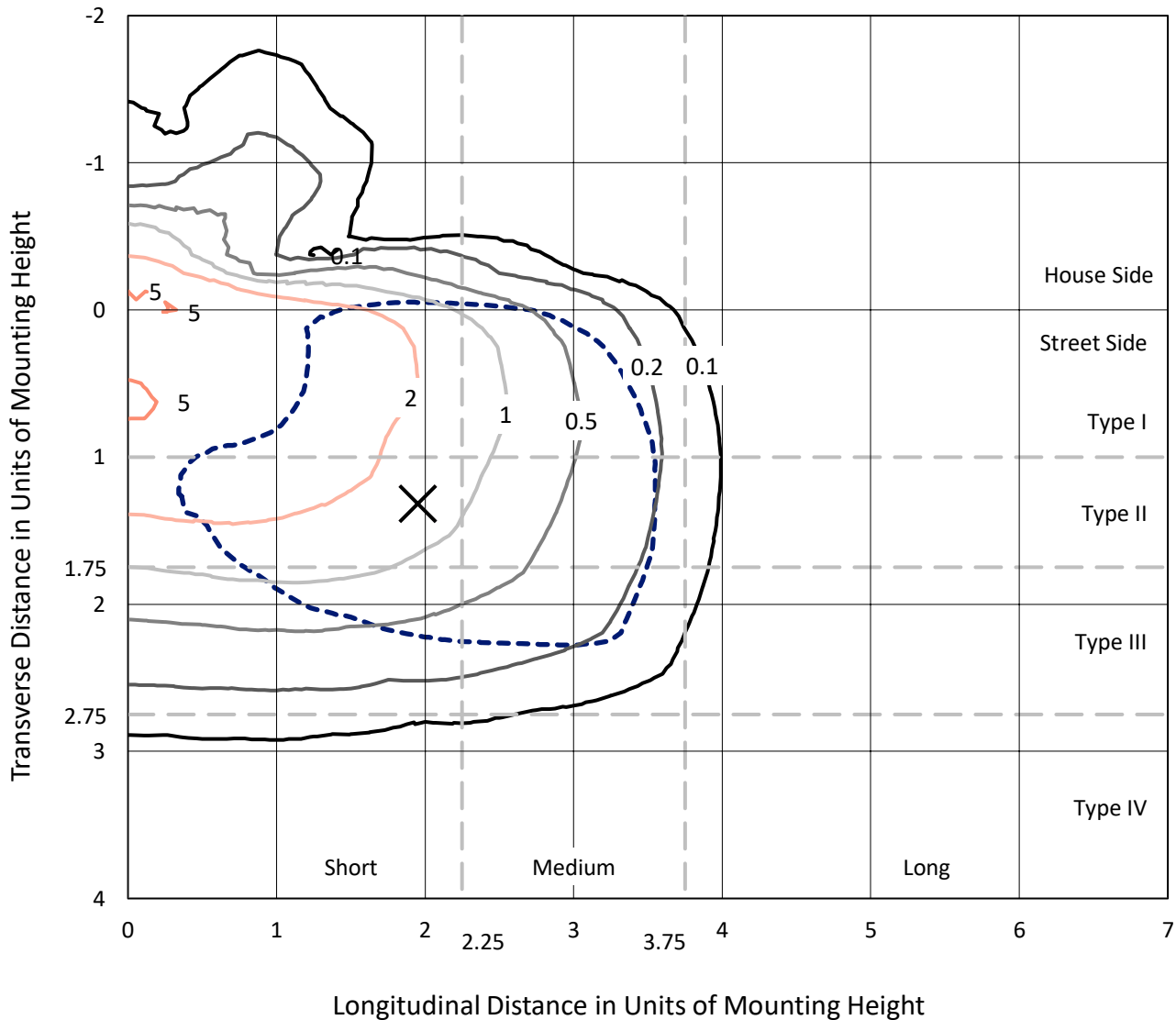
Lumens per Lamp: N/A
Luminaire Lumens: 12312 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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

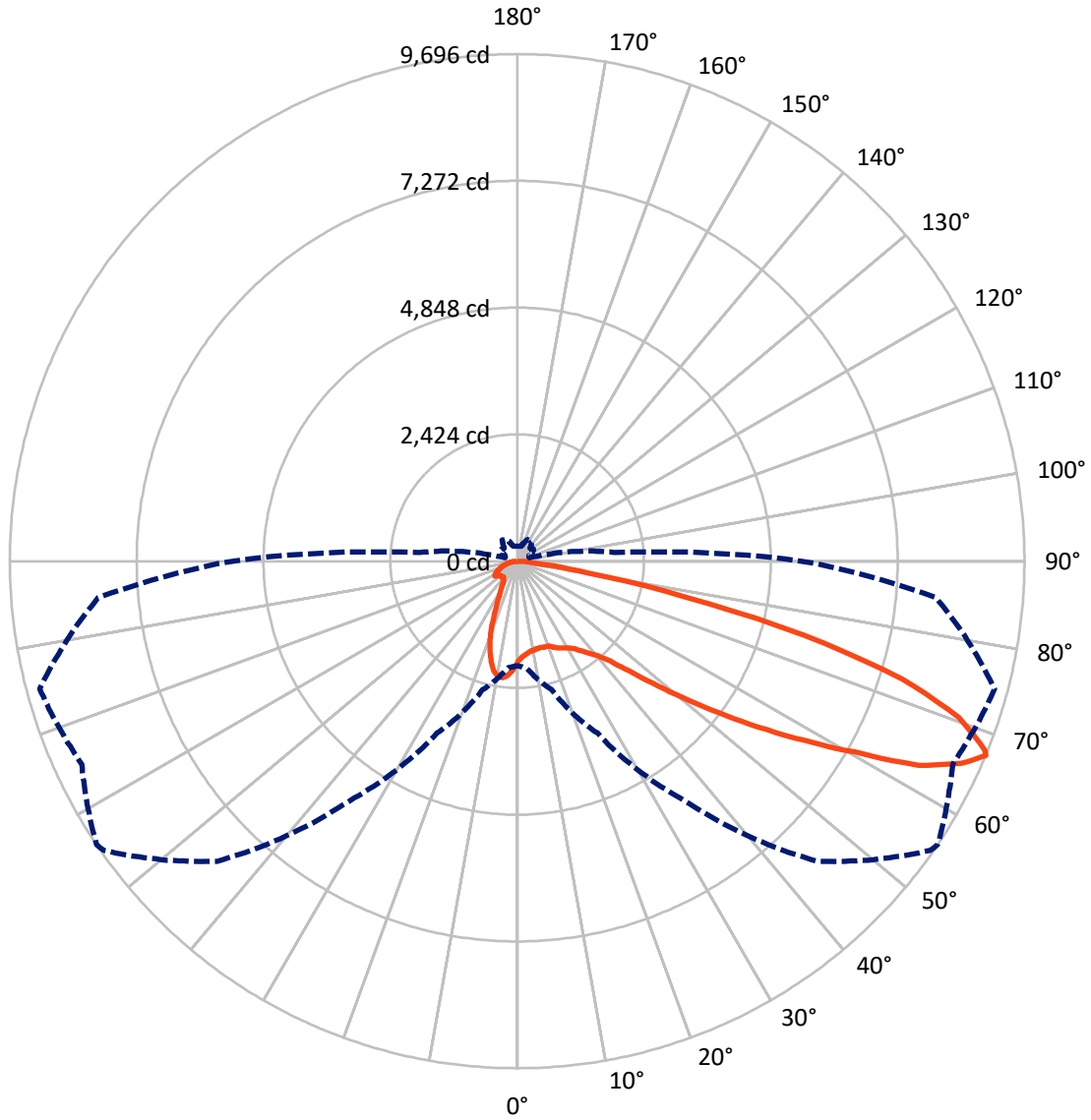
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	1949.1	0.0	1949.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	10362.9	0.0	10362.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	12312.0	0.0	12312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	1.5
10°-20°	503.5	4.1
20°-30°	789.6	6.4
30°-40°	1127.2	9.2
40°-50°	1701.3	13.8
50°-60°	2708.1	22.0
60°-70°	3462.1	28.1
70°-80°	1688.0	13.7
80°-90°	147.7	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°	12312.0	100.0
0°-180°	12312.0	100.0

Coefficient of Utilization



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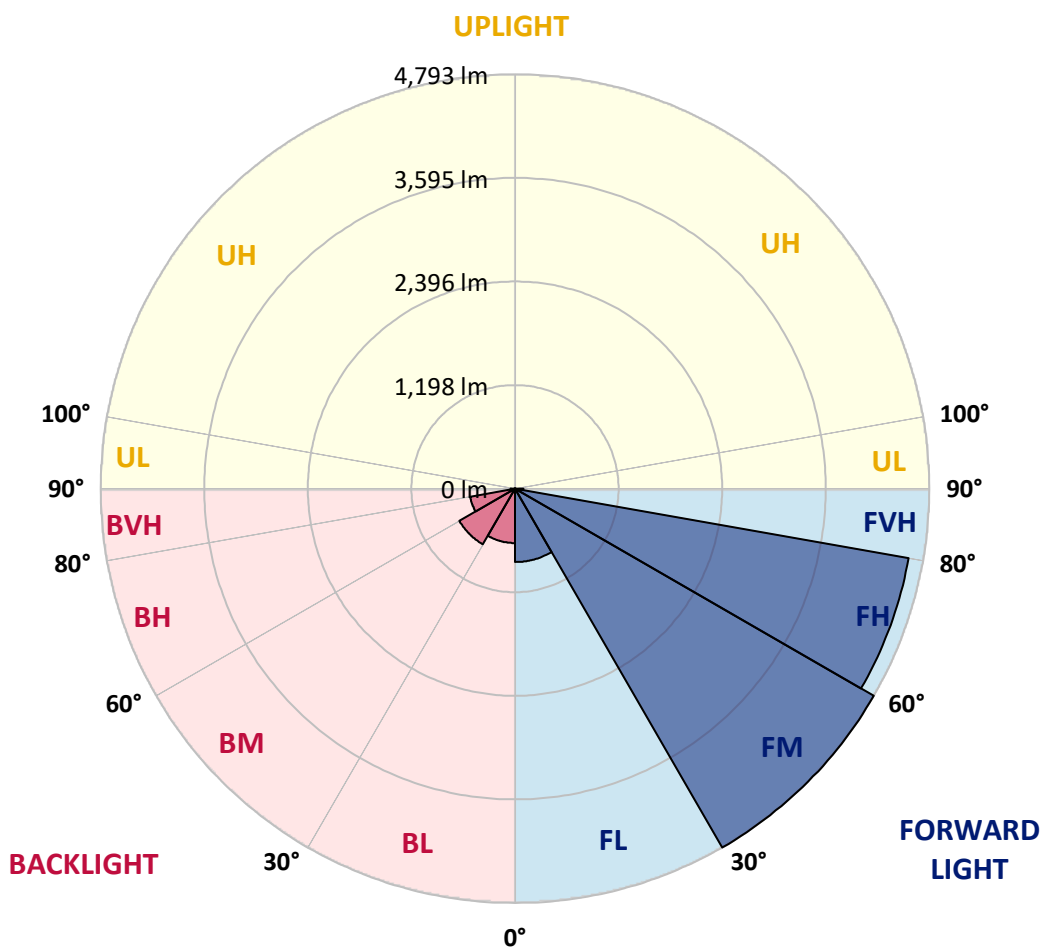
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.4	6.9			
FM (30°-60°)	4793.0	38.9			
FH (60°-80°)	4623.4	37.6			G2/5000
FVH (80°-90°)	98.1	0.8			G1/100
BL (0°-30°)	629.2	5.1	B2/1000		
BM (30°-60°)	743.6	6.0	B1/1000		
BH (60°-80°)	526.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	49.6	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°	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7
2.5°	1759.8	1752.6	1761.2	1752.6	1791.6	1814.7	1821.9	1832.0	1868.1	1902.7
5°	1686.2	1654.4	1689.1	1700.6	1703.5	1742.5	1782.9	1790.1	1808.9	1865.2
7.5°	1563.5	1599.6	1586.6	1621.2	1657.3	1696.3	1762.7	1743.9	1813.2	1866.6
10°	1537.5	1540.4	1554.8	1567.8	1599.6	1650.1	1742.5	1730.9	1801.7	1915.7
12.5°	1563.5	1563.5	1559.1	1549.0	1585.1	1634.2	1707.8	1713.6	1824.8	1930.2
15°	1654.4	1671.7	1625.5	1632.8	1618.3	1634.2	1699.2	1712.2	1833.4	1941.7
17.5°	1876.7	1871.0	1816.1	1739.6	1676.1	1666.0	1710.7	1725.2	1824.8	1974.9
20°	2093.3	2081.7	1986.5	1907.1	1781.5	1722.3	1729.5	1730.9	1839.2	1996.6
22.5°	2334.4	2364.7	2260.7	2099.1	1943.1	1795.9	1767.0	1790.1	1872.4	2008.1
25°	2712.6	2647.6	2558.1	2345.9	2094.7	1909.9	1829.1	1840.6	1904.2	2037.0
27.5°	2985.5	2959.5	2819.4	2647.6	2306.9	1999.4	1862.3	1884.0	1961.9	2035.5
30°	3248.2	3248.2	3163.0	2906.1	2530.7	2149.6	1933.0	1922.9	1934.5	2032.6
32.5°	3555.7	3513.8	3391.1	3220.8	2812.2	2286.7	1989.3	1992.2	1992.2	2086.1
35°	3717.4	3785.2	3702.9	3425.8	3027.3	2514.8	2125.0	2103.4	2087.5	2145.3
37.5°	3954.1	3994.6	3907.9	3744.8	3294.4	2699.6	2244.9	2227.5	2135.1	2191.4
40°	4097.1	4089.8	4087.0	4011.9	3648.1	2917.6	2421.0	2376.2	2252.1	2354.6
42.5°	4177.9	4163.5	4341.0	4294.8	3981.6	3238.1	2641.9	2617.3	2480.2	2644.8
45°	4268.9	4375.7	4521.5	4651.4	4369.9	3688.5	3015.8	2981.1	2858.4	3067.7
47.5°	4348.3	4479.6	4665.9	4804.4	4720.7	4177.9	3477.7	3486.4	3405.6	3620.7
50°	4481.1	4494.1	4746.7	5026.8	5091.7	4629.8	4098.5	4084.1	4048.0	4349.7
52.5°	4440.6	4479.6	4798.7	5156.7	5263.5	5107.6	4765.5	4808.8	4761.1	5140.8
55°	3782.3	3899.3	4766.9	5293.8	5670.6	5647.5	5623.0	5594.1	5591.2	6030.1
57.5°	3483.5	3578.8	4199.6	5445.4	6106.6	6277.0	6435.8	6467.5	6466.1	6995.9
60°	3287.2	3385.3	3970.0	5363.1	6477.6	7101.3	7405.9	7410.2	7401.6	8028.1
62.5°	2903.2	2998.4	3573.0	4912.7	6580.1	7862.1	8540.6	8596.9	8199.9	8917.4
65°	2441.2	2519.2	3025.9	4224.1	6307.3	8345.7	9393.8	9327.4	8872.6	9425.5
67°	1996.6	2048.5	2542.3	3626.4	5594.1	8113.3	9640.6	9695.5	9183.0	9447.2
67.5°	1869.5	1917.2	2383.5	3422.9	5322.7	7937.1	9649.3	9640.6	9188.8	9451.5
70°	1297.8	1318.0	1624.1	2354.6	3920.9	6705.7	8944.8	8965.0	8803.3	8939.0
72.5°	860.4	890.7	1085.6	1484.1	2311.3	4879.5	7476.6	7693.2	7590.7	7329.4
75°	554.4	571.7	710.3	883.5	1137.6	2779.0	5523.4	5667.7	5432.4	4533.0
77.5°	310.4	329.2	428.8	537.0	554.4	1156.4	3102.4	3281.4	2780.5	1925.8
80°	193.4	218.0	323.4	319.0	264.2	424.4	1279.1	1370.0	1111.6	662.6
82.5°	145.8	164.6	249.8	223.8	148.7	189.1	479.3	513.9	407.1	255.5
85°	99.6	125.6	180.5	138.6	78.0	90.9	190.6	205.0	186.2	124.2
87.5°	36.1	53.4	93.8	69.3	34.6	27.4	62.1	69.3	66.4	56.3
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°
1915.7	0°	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7	1915.7
1933.0	2.5°	1960.5	1980.7	1990.8	2050.0	2074.5	2070.2	2076.0	2084.6	2093.3	2104.8
1957.6	5°	1976.3	2038.4	2071.6	2140.9	2187.1	2166.9	2192.9	2185.7	2175.6	2174.1
2002.3	7.5°	2028.3	2107.7	2207.3	2226.1	2246.3	2195.8	2152.5	2093.3	2078.8	2028.3
2039.9	10°	2120.7	2185.7	2306.9	2314.2	2224.7	2094.7	1998.0	1875.3	1873.8	1800.2
2097.6	12.5°	2208.8	2282.4	2380.6	2338.7	2125.0	1947.5	1790.1	1655.9	1599.6	1562.0
2132.3	15°	2263.6	2384.9	2436.9	2256.4	1950.4	1710.7	1507.2	1362.8	1305.1	1277.6
2175.6	17.5°	2314.2	2483.1	2460.0	2112.0	1735.3	1466.7	1224.2	1098.6	1082.7	1062.5
2244.9	20°	2383.5	2519.2	2377.7	1924.4	1491.3	1152.0	997.6	936.9	951.4	960.0
2252.1	22.5°	2448.4	2537.9	2273.7	1719.4	1178.0	912.4	835.9	848.9	870.5	899.4
2269.4	25°	2477.3	2568.2	2133.7	1436.4	896.5	768.0	750.7	772.3	808.4	809.9
2293.9	27.5°	2496.1	2546.6	1964.8	1160.7	708.8	671.3	697.3	713.2	717.5	734.8
2345.9	30°	2529.3	2501.8	1751.1	830.1	594.8	596.2	629.4	629.4	629.4	642.4
2397.9	32.5°	2587.0	2471.5	1501.4	606.3	512.5	558.7	550.0	547.1	541.4	525.5
2464.3	35°	2623.1	2389.2	1185.2	449.0	460.5	512.5	509.6	464.9	389.8	352.2
2633.2	37.5°	2698.2	2347.4	872.0	346.5	430.2	489.4	473.5	365.2	283.0	246.9
2842.5	40°	2859.9	2319.9	603.4	303.2	410.0	477.8	423.0	311.8	216.5	153.0
3165.9	42.5°	3057.6	2321.4	410.0	285.8	411.4	502.4	407.1	267.1	153.0	122.7
3597.6	45°	3323.3	2299.7	281.5	285.8	437.4	542.8	417.2	242.5	148.7	155.9
4138.9	47.5°	3609.1	2318.5	209.3	259.9	441.8	544.3	381.1	238.2	142.9	180.5
4727.9	50°	3942.6	2337.3	173.2	239.6	443.2	526.9	350.8	232.4	148.7	190.6
5403.6	52.5°	4286.2	2396.4	147.3	226.7	460.5	519.7	350.8	241.1	148.7	166.0
6264.0	55°	4798.7	2548.0	212.2	283.0	524.0	567.4	431.6	337.8	207.9	213.7
7088.3	57.5°	5364.6	2703.9	236.8	297.4	538.5	511.0	464.9	372.5	219.4	220.9
7729.3	60°	5737.0	2709.7	235.3	290.2	503.8	441.8	454.7	392.7	223.8	189.1
8126.3	62.5°	5885.7	2533.6	245.4	290.2	469.2	412.9	466.3	423.0	231.0	236.8
8238.9	65°	5716.8	2169.8	236.8	259.9	412.9	369.6	469.2	428.8	252.6	238.2
8036.8	67°	5452.6	1869.5	241.1	246.9	384.0	350.8	493.7	450.4	293.1	285.8
7931.4	67.5°	5377.6	1790.1	239.6	239.6	373.9	345.0	499.5	450.4	298.8	295.9
7000.2	70°	4739.5	1450.9	245.4	236.8	330.6	327.7	531.3	475.0	343.6	346.5
5142.3	72.5°	3607.7	1100.1	244.0	236.8	287.3	313.3	535.6	490.8	373.9	346.5
2880.1	75°	2050.0	658.3	215.1	206.4	226.7	272.8	500.9	467.7	363.8	310.4
1150.6	77.5°	847.4	339.3	197.8	186.2	187.7	222.3	417.2	436.0	346.5	264.2
384.0	80°	316.2	203.6	158.8	148.7	144.4	163.1	297.4	347.9	295.9	216.5
168.9	82.5°	164.6	127.0	108.3	108.3	98.2	103.9	160.2	231.0	223.8	148.7
67.9	85°	83.7	72.2	62.1	60.6	54.9	49.1	80.8	137.1	128.5	82.3
30.3	87.5°	44.8	40.4	26.0	24.5	20.2	13.0	14.4	27.4	44.8	36.1
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°
1915.7
2116.4
2187.1
2045.6
1797.3
1553.4
1271.8
1072.6
949.9
883.5
824.3
750.7
656.9
516.8
369.6
245.4
148.7
119.8
158.8
200.7
220.9
170.3
225.2
213.7
194.9
239.6
233.9
281.5
290.2
320.5
307.5
277.2
249.8
197.8
116.9
67.9
26.0
0.0

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