

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: P477335

Luminaire Tested: **IFLD-S-SA2D-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477335
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

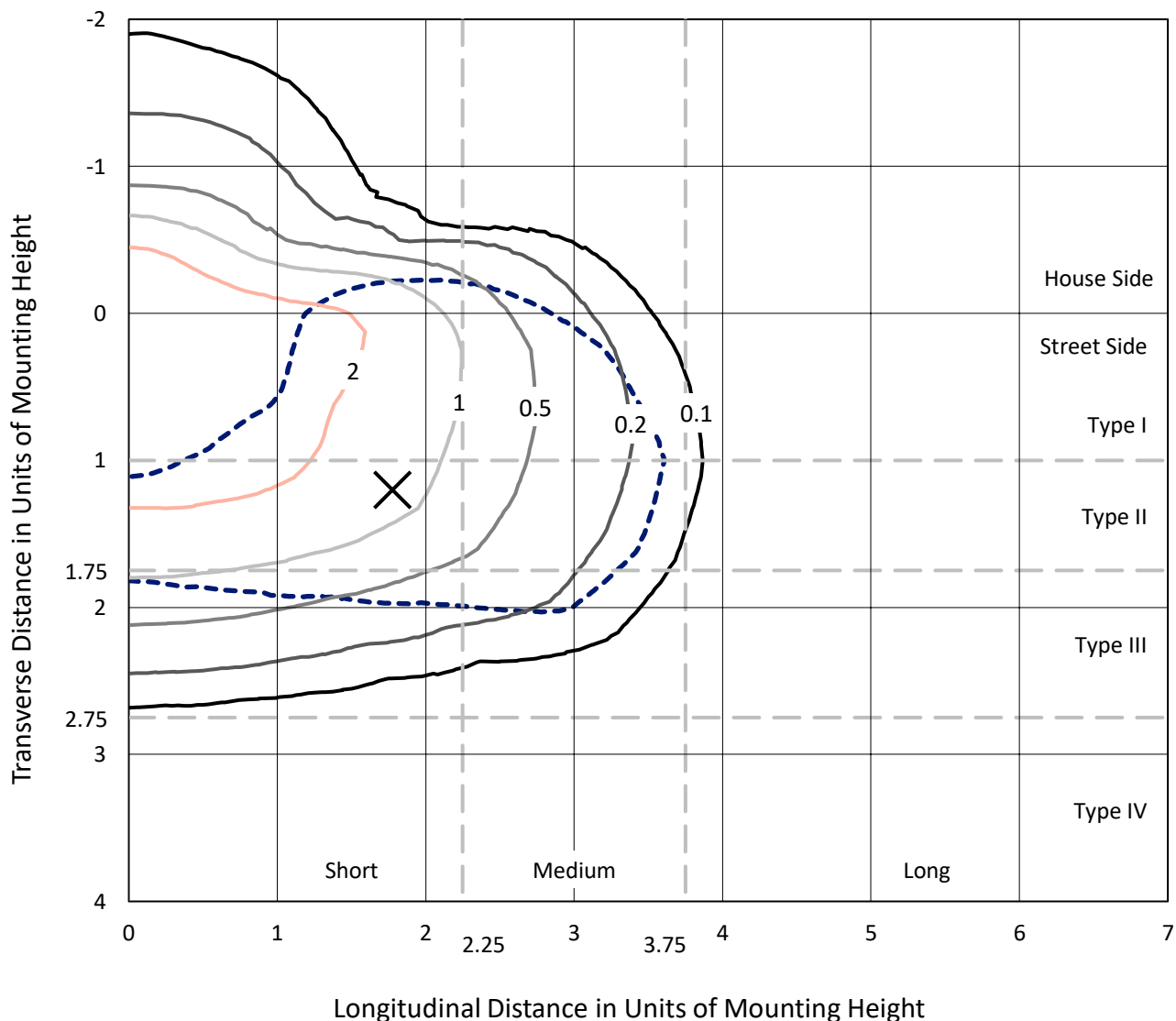
Lumens per Lamp: N/A
Luminaire Lumens: 15710.9 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

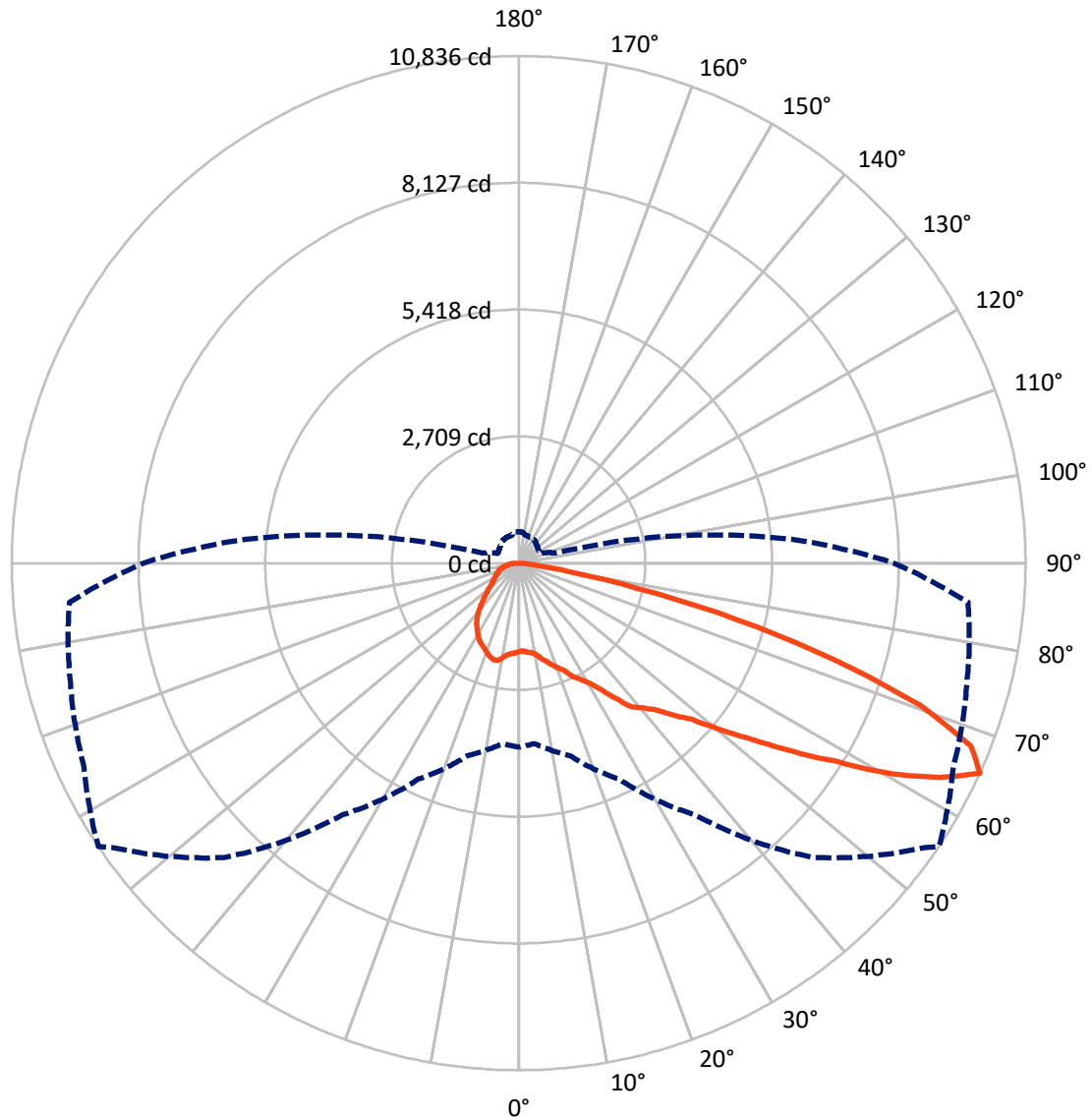
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3523.5	0.0	3523.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	12187.5	0.0	12187.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	15710.9	0.0	15710.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	1.2
10°-20°	606.8	3.9
20°-30°	1080.4	6.9
30°-40°	1617.9	10.3
40°-50°	2397.2	15.3
50°-60°	3693.7	23.5
60°-70°	4181.7	26.6
70°-80°	1735.5	11.0
80°-90°	210.8	1.3
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°	15710.9	100.0
0°-180°	15710.9	100.0

Coefficient of Utilization

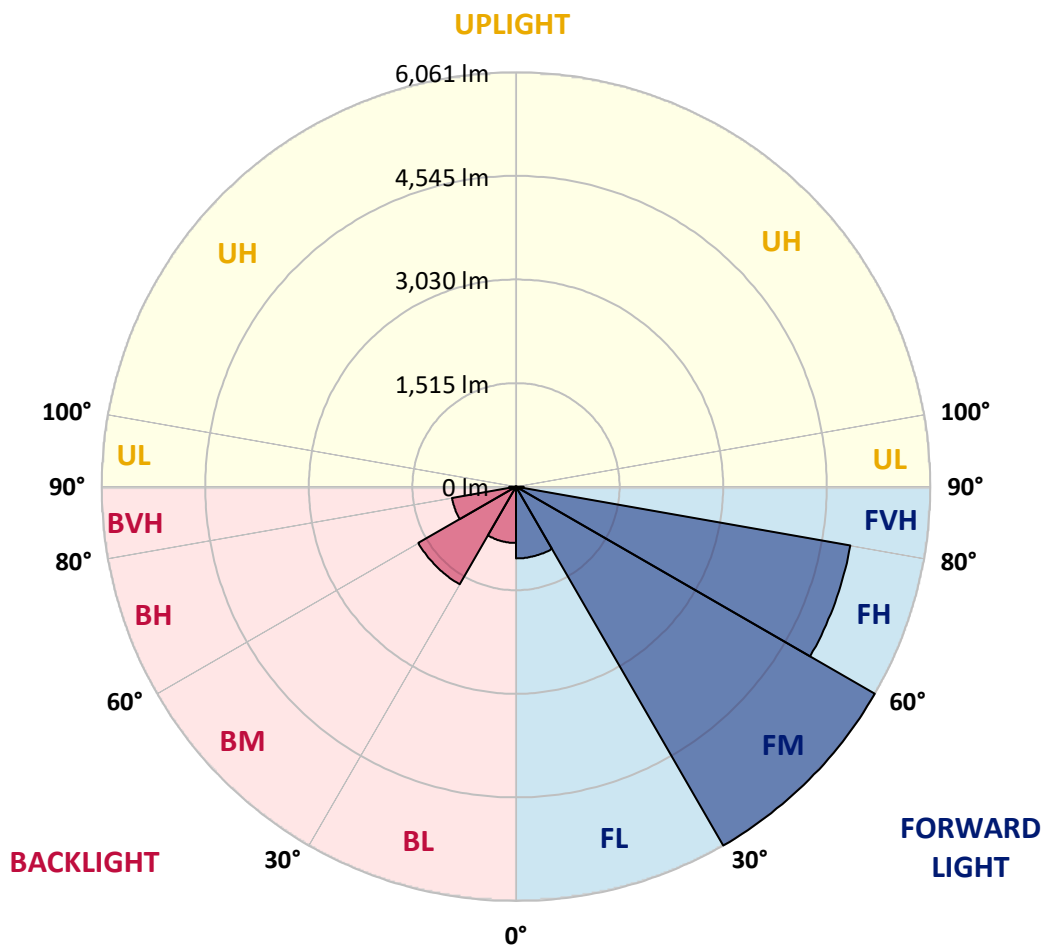


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.9	6.7			
FM (30°-60°)	6060.6	38.6			
FH (60°-80°)	4965.7	31.6			G2/5000
FVH (80°-90°)	111.2	0.7			G2/225
BL (0°-30°)	824.2	5.2	B2/1000		
BM (30°-60°)	1648.2	10.5	B2/2500		
BH (60°-80°)	951.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	99.6	0.6			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°	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8
2.5°	1836.4	1846.3	1839.7	1859.5	1875.9	1875.9	1889.0	1879.2	1892.3	1910.4
5°	1897.3	1857.8	1879.2	1889.0	1884.1	1892.3	1879.2	1912.1	1890.7	1925.2
7.5°	1912.1	1926.9	1944.9	1928.5	1943.3	1935.1	1936.7	1931.8	1920.3	1948.2
10°	2020.6	1999.2	2040.3	2015.6	2012.4	2009.1	2002.5	1977.8	2005.8	2007.4
12.5°	2145.5	2125.8	2124.2	2104.4	2130.7	2083.1	2092.9	2079.8	2084.7	2091.3
15°	2236.0	2227.7	2265.5	2242.5	2208.0	2186.6	2209.6	2173.5	2191.6	2188.3
17.5°	2415.2	2413.5	2385.6	2347.7	2328.0	2296.8	2291.8	2277.1	2290.2	2283.6
20°	2540.1	2558.2	2563.1	2518.7	2443.1	2408.6	2400.4	2388.9	2403.6	2398.7
22.5°	2730.8	2702.9	2724.2	2647.0	2619.0	2536.8	2507.2	2490.8	2561.5	2543.4
25°	2852.5	2882.1	2860.7	2834.4	2771.9	2670.0	2648.6	2684.8	2712.7	2693.0
27.5°	3127.0	3097.4	3077.7	2998.8	2957.7	2850.8	2826.2	2813.0	2819.6	2831.1
30°	3335.8	3352.3	3307.9	3252.0	3148.4	3039.9	2982.4	2970.9	2947.8	2928.1
32.5°	3633.4	3608.8	3582.5	3546.3	3457.5	3314.5	3258.6	3215.8	3146.8	3054.7
35°	3776.5	3847.2	3827.4	3730.4	3663.0	3608.8	3592.3	3526.6	3469.0	3324.3
37.5°	4014.8	4044.4	4016.5	3985.3	3954.0	3896.5	3876.7	3894.8	3781.4	3543.0
40°	4169.4	4231.9	4289.4	4202.3	4195.7	4207.2	4085.5	4064.2	3830.7	3705.8
42.5°	4485.1	4511.4	4522.9	4519.6	4557.4	4557.4	4325.6	4279.5	4113.5	4011.6
45°	4902.7	4924.0	4965.1	4994.7	4952.0	4973.3	4642.9	4624.8	4476.8	4457.1
47.5°	5264.3	5315.3	5407.4	5494.5	5550.4	5478.1	5116.4	4988.1	4950.3	5068.7
50°	5580.0	5519.2	5734.6	5823.3	6068.3	6188.3	5639.2	5588.2	5527.4	5754.3
52.5°	5611.3	5693.5	5997.6	6175.2	6679.9	6901.9	6280.4	6259.0	6185.0	6446.4
55°	5834.8	5825.0	6130.8	6515.5	7115.6	7488.8	7115.6	7102.4	6941.3	7189.6
57.5°	5797.0	5897.3	6139.0	6676.6	7508.5	8118.5	8083.9	7993.5	7768.3	7970.5
60°	5668.8	5695.1	5989.4	6671.7	7737.0	8764.6	9129.6	9147.7	8687.3	8848.4
62.5°	4942.1	5002.9	5376.1	6147.2	7574.3	9210.1	10150.6	10086.4	9718.2	9534.0
65°	3931.0	3870.2	4258.2	5091.7	6561.5	8894.5	10597.8	10836.1	10257.4	9920.4
67.5°	2410.2	2395.4	2768.6	3503.5	4909.2	7569.4	10241.0	10426.8	10107.8	9838.2
70°	1241.3	1203.5	1436.9	1954.8	3085.9	5553.7	8912.6	9095.1	9399.2	8823.8
72.5°	578.7	570.5	695.4	961.8	1571.7	3265.1	6901.9	7033.4	7674.6	7439.5
75°	340.3	345.3	416.0	503.1	766.1	1538.9	4580.4	4835.2	5530.7	5361.4
77.5°	254.8	254.8	295.9	350.2	447.2	595.2	2260.6	2597.6	3233.9	2908.4
80°	187.4	190.7	226.9	263.1	310.7	307.4	897.7	1052.2	1483.0	1267.6
82.5°	146.3	151.3	175.9	195.6	218.7	185.8	368.3	396.2	610.0	485.0
85°	101.9	105.2	138.1	133.2	133.2	103.6	152.9	161.1	241.7	230.2
87.5°	24.7	27.9	67.4	74.0	55.9	31.2	47.7	54.3	87.1	100.3
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°
1885.8	0°	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8	1885.8
1918.6	2.5°	1894.0	1900.6	1928.5	1913.7	1921.9	1887.4	1915.4	1892.3	1912.1	1902.2
1933.4	5°	1946.6	1931.8	1948.2	1936.7	1936.7	1949.9	1969.6	1954.8	1984.4	1971.3
1944.9	7.5°	1968.0	1969.6	1979.5	1981.1	1972.9	2014.0	2015.6	2010.7	2038.7	2032.1
2023.9	10°	2020.6	2022.2	2040.3	2050.2	2041.9	2056.7	2040.3	2027.2	2025.5	2018.9
2086.3	12.5°	2104.4	2120.9	2117.6	2125.8	2127.4	2065.0	2027.2	1963.0	1954.8	1963.0
2178.4	15°	2181.7	2175.1	2178.4	2194.8	2125.8	2025.5	1958.1	1903.8	1907.1	1908.8
2298.4	17.5°	2273.8	2278.7	2283.6	2208.0	2081.4	1963.0	1903.8	1903.8	1887.4	1894.0
2382.3	20°	2379.0	2359.3	2316.5	2209.6	2004.1	1890.7	1872.6	1872.6	1852.9	1839.7
2472.7	22.5°	2461.2	2421.7	2357.6	2158.7	1935.1	1862.7	1818.4	1787.1	1764.1	1737.8
2573.0	25°	2513.8	2492.4	2367.5	2106.1	1884.1	1788.8	1723.0	1675.3	1645.7	1611.2
2651.9	27.5°	2594.4	2553.3	2395.4	2045.2	1828.2	1714.8	1612.8	1538.9	1483.0	1446.8
2771.9	30°	2702.9	2643.7	2375.7	1958.1	1742.7	1586.5	1466.5	1371.2	1307.0	1277.5
2885.4	32.5°	2791.7	2714.4	2359.3	1879.2	1647.4	1456.7	1297.2	1200.2	1164.0	1126.2
3076.1	35°	2961.0	2808.1	2347.7	1834.8	1561.9	1326.8	1159.1	1075.2	1029.2	973.3
3189.5	37.5°	3090.9	2970.9	2319.8	1742.7	1451.7	1200.2	1053.9	978.2	909.2	850.0
3452.6	40°	3294.7	3197.7	2321.4	1612.8	1321.8	1091.7	971.7	892.7	805.6	754.6
3842.2	42.5°	3677.8	3421.3	2331.3	1509.3	1175.5	1002.9	897.7	804.0	716.8	674.1
4286.1	45°	4148.0	3728.8	2270.5	1415.6	1025.9	919.0	808.9	715.2	659.3	628.0
4889.5	47.5°	4688.9	4029.6	2188.3	1239.6	901.0	830.3	726.7	672.4	631.3	613.2
5667.1	50°	5293.9	4460.4	2165.3	1078.5	804.0	754.6	687.2	646.1	618.2	596.8
6543.4	52.5°	6073.2	4961.8	2119.2	912.5	720.1	693.8	672.4	644.5	619.8	601.7
7360.6	55°	6818.0	5517.5	2069.9	776.0	660.9	664.2	675.7	651.1	629.7	601.7
8276.3	57.5°	7656.5	6084.7	1887.4	675.7	616.5	649.4	672.4	644.5	623.1	601.7
9213.4	60°	8174.4	6403.7	1530.6	588.6	577.1	621.5	652.7	623.1	600.1	608.3
9644.2	62.5°	8384.8	6236.0	1154.1	534.3	549.1	583.6	621.5	610.0	593.5	624.8
9639.3	65°	8026.4	5849.6	825.3	488.3	511.3	545.8	593.5	606.7	611.6	672.4
8853.4	67.5°	7141.9	5093.4	606.7	450.5	471.9	522.8	613.2	634.6	631.3	707.0
7429.6	70°	5714.8	3983.6	473.5	419.2	457.1	540.9	641.2	641.2	618.2	707.0
5667.1	72.5°	4157.9	2808.1	407.7	383.1	419.2	496.5	637.9	636.3	606.7	646.1
3608.8	75°	2517.1	1634.2	360.1	346.9	360.1	425.8	610.0	600.1	559.0	555.7
1736.2	77.5°	1254.4	822.0	294.3	307.4	314.0	356.8	536.0	550.8	494.9	481.7
685.6	80°	529.4	358.4	245.0	264.7	264.7	300.9	445.5	455.4	411.0	386.4
271.3	82.5°	241.7	205.5	208.8	230.2	215.4	233.5	353.5	365.0	333.7	292.6
115.1	85°	101.9	116.7	159.5	180.8	159.5	151.3	243.3	256.5	217.0	180.8
49.3	87.5°	46.0	64.1	100.3	131.5	80.6	70.7	129.9	134.8	108.5	80.6
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>
1885.8
1884.1
1953.2
2022.2
2018.9
1966.3
1931.8
1895.6
1820.0
1723.0
1617.8
1463.2
1293.9
1124.6
968.4
851.6
759.6
677.4
634.6
610.0
600.1
600.1
600.1
600.1
601.7
616.5
672.4
711.9
692.2
623.1
549.1
473.5
378.1
286.1
182.5
75.6
0.0

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