

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: P477258

Luminaire Tested: **IFLD-S-SA2E-727-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477258  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-727-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

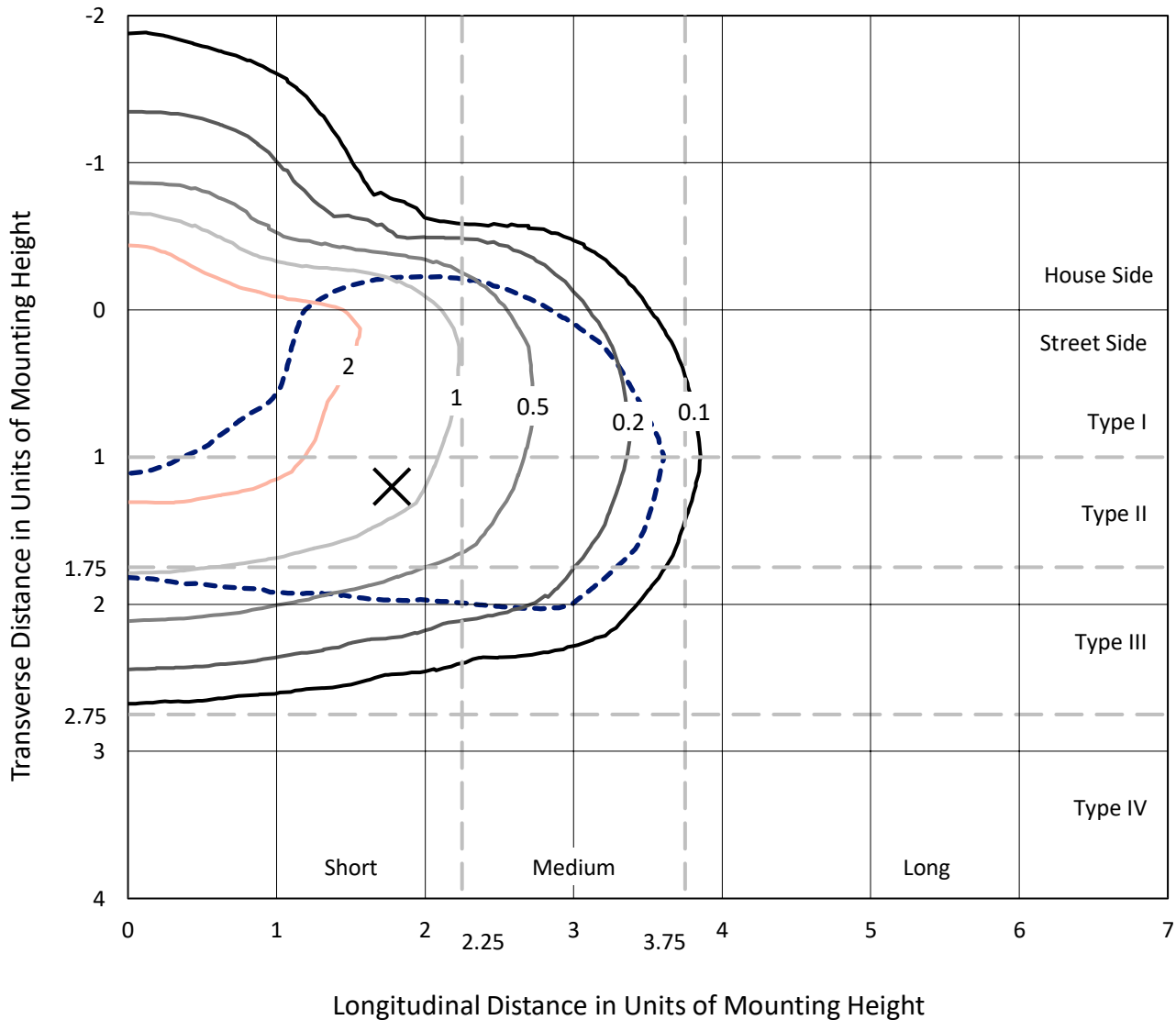
Lumens per Lamp: N/A  
Luminaire Lumens: 15416.8 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2  
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

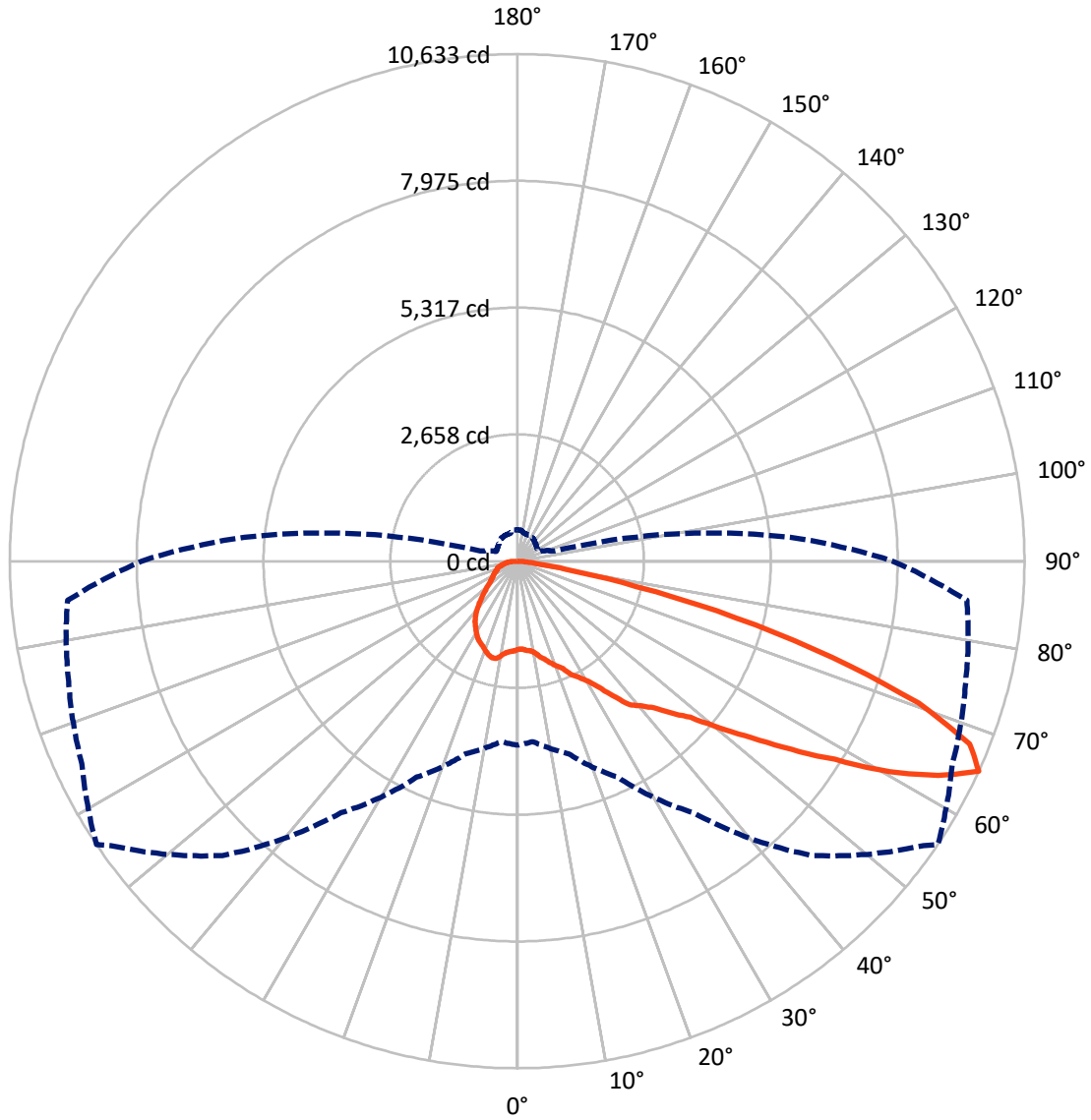
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P477258  
CATALOG NUMBER: IFLD-S-SA2E-727-U-T3

### 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
<b>House Side</b>	Lumens	3457.5	0.0	3457.5
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	11959.3	0.0	11959.3
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	15416.8	0.0	15416.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.4	1.2
10°-20°	595.4	3.9
20°-30°	1060.2	6.9
30°-40°	1587.6	10.3
40°-50°	2352.3	15.3
50°-60°	3624.6	23.5
60°-70°	4103.4	26.6
70°-80°	1703.0	11.0
80°-90°	206.9	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°	15416.8	100.0
0°-180°	15416.8	100.0

**Coefficient of Utilization**

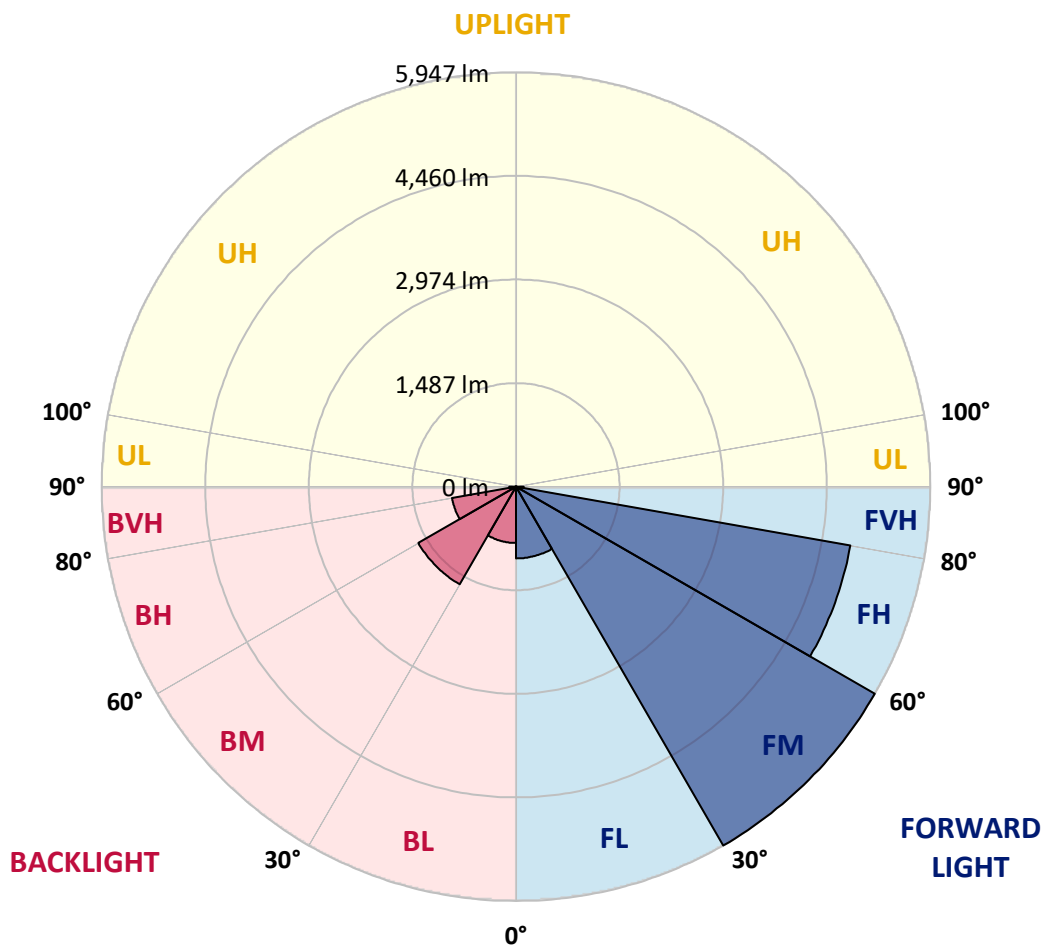


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.3	6.7			
FM (30°-60°)	5947.1	38.6			
FH (60°-80°)	4872.8	31.6			G2/5000
FVH (80°-90°)	109.1	0.7			G2/225
BL (0°-30°)	808.7	5.2	B2/1000		
BM (30°-60°)	1617.4	10.5	B2/2500		
BH (60°-80°)	933.6	6.1	B2/1000		G2/1000
BVH (80°-90°)	97.8	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°	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1802.1	1811.7	1805.3	1824.6	1840.8	1840.8	1853.7	1844.0	1856.9	1874.7
5°	1861.8	1823.0	1844.0	1853.7	1848.8	1856.9	1844.0	1876.3	1855.3	1889.2
7.5°	1876.3	1890.8	1908.5	1892.4	1906.9	1898.9	1900.5	1895.6	1884.3	1911.8
10°	1982.8	1961.8	2002.1	1977.9	1974.7	1971.5	1965.0	1940.8	1968.2	1969.8
12.5°	2105.4	2086.0	2084.4	2065.0	2090.8	2044.1	2053.7	2040.8	2045.7	2052.1
15°	2194.1	2186.0	2223.1	2200.5	2166.7	2145.7	2168.3	2132.8	2150.5	2147.3
17.5°	2369.9	2368.3	2340.9	2303.8	2284.4	2253.8	2248.9	2234.4	2247.3	2240.9
20°	2492.6	2510.3	2515.1	2471.6	2397.4	2363.5	2355.4	2344.1	2358.7	2353.8
22.5°	2679.7	2652.3	2673.2	2597.4	2570.0	2489.3	2460.3	2444.2	2513.5	2495.8
25°	2799.1	2828.1	2807.1	2781.3	2720.0	2620.0	2599.0	2634.5	2662.0	2642.6
27.5°	3068.5	3039.5	3020.1	2942.7	2902.3	2797.5	2773.3	2760.4	2766.8	2778.1
30°	3273.4	3289.5	3246.0	3191.1	3089.5	2983.0	2926.5	2915.2	2892.7	2873.3
32.5°	3565.4	3541.2	3515.4	3479.9	3392.8	3252.4	3197.6	3155.6	3087.9	2997.5
35°	3705.8	3775.1	3755.8	3660.6	3594.4	3541.2	3525.1	3460.5	3404.1	3262.1
37.5°	3939.7	3968.7	3941.3	3910.6	3880.0	3823.5	3804.2	3821.9	3710.6	3476.7
40°	4091.3	4152.6	4209.1	4123.6	4117.2	4128.4	4009.1	3988.1	3759.0	3636.4
42.5°	4401.1	4426.9	4438.2	4435.0	4472.1	4472.1	4244.6	4199.4	4036.5	3936.5
45°	4810.9	4831.8	4872.2	4901.2	4859.3	4880.2	4556.0	4538.2	4393.0	4373.7
47.5°	5165.8	5215.8	5306.2	5391.7	5446.5	5375.5	5020.6	4894.8	4857.7	4973.8
50°	5475.6	5415.9	5627.2	5714.3	5954.7	6072.5	5533.6	5483.6	5423.9	5646.6
52.5°	5506.2	5586.9	5885.3	6059.6	6554.9	6772.7	6162.8	6141.8	6069.3	6325.8
55°	5725.6	5715.9	6016.0	6393.5	6982.4	7348.6	6982.4	6969.5	6811.4	7055.0
57.5°	5688.5	5786.9	6024.1	6551.6	7368.0	7966.5	7932.6	7843.9	7622.9	7821.3
60°	5562.7	5588.5	5877.3	6546.8	7592.2	8600.5	8958.7	8976.4	8524.7	8682.8
62.5°	4849.6	4909.3	5275.5	6032.1	7432.5	9037.7	9960.5	9897.6	9536.2	9355.6
65°	3857.4	3797.7	4178.5	4996.4	6438.7	8728.0	10399.4	10633.3	10065.4	9734.7
67.5°	2365.1	2350.6	2716.8	3438.0	4817.3	7427.7	10049.3	10231.6	9918.6	9654.0
70°	1218.0	1180.9	1410.0	1918.2	3028.2	5449.7	8745.7	8924.8	9223.3	8658.6
72.5°	567.9	559.8	682.4	943.8	1542.3	3204.0	6772.7	6901.7	7530.9	7300.2
75°	334.0	338.8	408.2	493.7	751.8	1510.1	4494.7	4744.7	5427.2	5261.0
77.5°	250.1	250.1	290.4	343.6	438.8	584.0	2218.3	2549.0	3173.4	2853.9
80°	183.9	187.1	222.6	258.1	304.9	301.7	880.9	1032.5	1455.2	1243.9
82.5°	143.6	148.4	172.6	192.0	214.6	182.3	361.4	388.8	598.5	475.9
85°	100.0	103.3	135.5	130.7	130.7	101.6	150.0	158.1	237.2	225.9
87.5°	24.2	27.4	66.1	72.6	54.9	30.7	46.8	53.2	85.5	98.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477258  
 CATALOG NUMBER: IFLD-S-SA2E-727-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1850.5	0°	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5
1882.7	2.5°	1858.5	1865.0	1892.4	1877.9	1886.0	1852.1	1879.5	1856.9	1876.3	1866.6
1897.2	5°	1910.2	1895.6	1911.8	1900.5	1900.5	1913.4	1932.7	1918.2	1947.3	1934.4
1908.5	7.5°	1931.1	1932.7	1942.4	1944.0	1936.0	1976.3	1977.9	1973.1	2000.5	1994.0
1986.0	10°	1982.8	1984.4	2002.1	2011.8	2003.7	2018.2	2002.1	1989.2	1987.6	1981.1
2047.3	12.5°	2065.0	2081.2	2077.9	2086.0	2087.6	2026.3	1989.2	1926.3	1918.2	1926.3
2137.6	15°	2140.9	2134.4	2137.6	2153.8	2086.0	1987.6	1921.4	1868.2	1871.4	1873.0
2255.4	17.5°	2231.2	2236.0	2240.9	2166.7	2042.4	1926.3	1868.2	1868.2	1852.1	1858.5
2337.7	20°	2334.5	2315.1	2273.1	2168.3	1966.6	1855.3	1837.6	1837.6	1818.2	1805.3
2426.4	22.5°	2415.1	2376.4	2313.5	2118.3	1898.9	1827.9	1784.3	1753.7	1731.1	1705.3
2524.8	25°	2466.7	2445.8	2323.2	2066.6	1848.8	1755.3	1690.7	1644.0	1614.9	1581.0
2602.3	27.5°	2545.8	2505.5	2350.6	2007.0	1794.0	1682.7	1582.7	1510.1	1455.2	1419.7
2720.0	30°	2652.3	2594.2	2331.2	1921.4	1710.1	1556.8	1439.1	1345.5	1282.6	1253.5
2831.3	32.5°	2739.4	2663.6	2315.1	1844.0	1616.5	1429.4	1272.9	1177.7	1142.2	1105.1
3018.5	35°	2905.6	2755.5	2303.8	1800.4	1532.6	1301.9	1137.4	1055.1	1009.9	955.1
3129.8	37.5°	3033.0	2915.2	2276.4	1710.1	1424.5	1177.7	1034.1	959.9	892.2	834.1
3387.9	40°	3233.1	3137.9	2278.0	1582.7	1297.1	1071.2	953.5	876.0	790.5	740.5
3770.3	42.5°	3609.0	3357.3	2287.7	1481.0	1153.5	984.1	880.9	788.9	703.4	661.5
4205.9	45°	4070.4	3659.0	2228.0	1389.1	1006.7	901.8	793.7	701.8	646.9	616.3
4798.0	47.5°	4601.1	3954.2	2147.3	1216.4	884.1	814.7	713.1	659.8	619.5	601.8
5561.1	50°	5194.8	4376.9	2124.7	1058.3	788.9	740.5	674.4	634.0	606.6	585.6
6421.0	52.5°	5959.5	4869.0	2079.5	895.4	706.6	680.8	659.8	632.4	608.2	590.5
7222.8	55°	6690.4	5414.2	2031.2	761.5	648.5	651.8	663.1	638.9	617.9	590.5
8121.4	57.5°	7513.2	5970.8	1852.1	663.1	605.0	637.3	659.8	632.4	611.4	590.5
9041.0	60°	8021.3	6283.8	1502.0	577.6	566.3	609.8	640.5	611.4	588.9	596.9
9463.6	62.5°	8227.9	6119.3	1132.5	524.3	538.8	572.7	609.8	598.5	582.4	613.1
9458.8	65°	7876.2	5740.1	809.9	479.2	501.7	535.6	582.4	595.3	600.1	659.8
8687.6	67.5°	7008.2	4998.0	595.3	442.0	463.0	513.0	601.8	622.7	619.5	693.7
7290.5	70°	5607.8	3909.0	464.6	411.4	448.5	530.8	629.2	629.2	606.6	693.7
5561.1	72.5°	4080.0	2755.5	400.1	375.9	411.4	487.2	626.0	624.3	595.3	634.0
3541.2	75°	2470.0	1603.6	353.3	340.4	353.3	417.8	598.5	588.9	548.5	545.3
1703.6	77.5°	1231.0	806.7	288.8	301.7	308.1	350.1	525.9	540.5	485.6	472.7
672.7	80°	519.5	351.7	240.4	259.7	259.7	295.2	437.2	446.9	403.3	379.1
266.2	82.5°	237.2	201.7	204.9	225.9	211.3	229.1	346.9	358.2	327.5	287.2
112.9	85°	100.0	114.5	156.5	177.5	156.5	148.4	238.8	251.7	213.0	177.5
48.4	87.5°	45.2	62.9	98.4	129.1	79.1	69.4	127.5	132.3	106.5	79.1
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>
1850.5
1848.8
1916.6
1984.4
1981.1
1929.5
1895.6
1860.1
1785.9
1690.7
1587.5
1435.8
1269.7
1103.5
950.2
835.7
745.3
664.7
622.7
598.5
588.9
588.9
588.9
588.9
590.5
605.0
659.8
698.6
679.2
611.4
538.8
464.6
371.1
280.7
179.1
74.2
0.0

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