

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: P477377

Luminaire Tested: **IFLD-S-SA3B-740-U-T3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477377  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-740-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

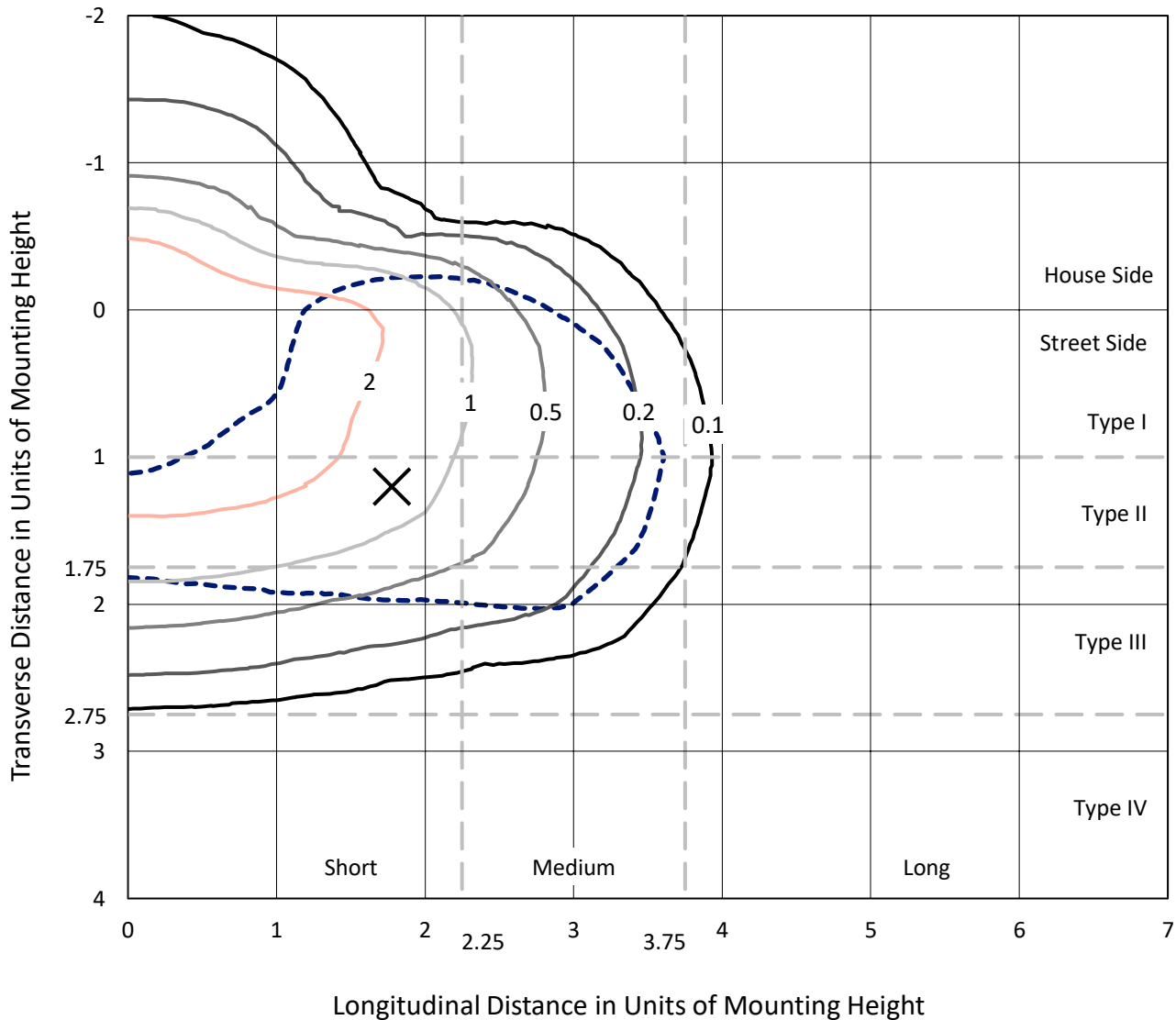
Lumens per Lamp: N/A  
Luminaire Lumens: 17331 lumens  
Efficiency: N/A  
Efficacy: 141.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

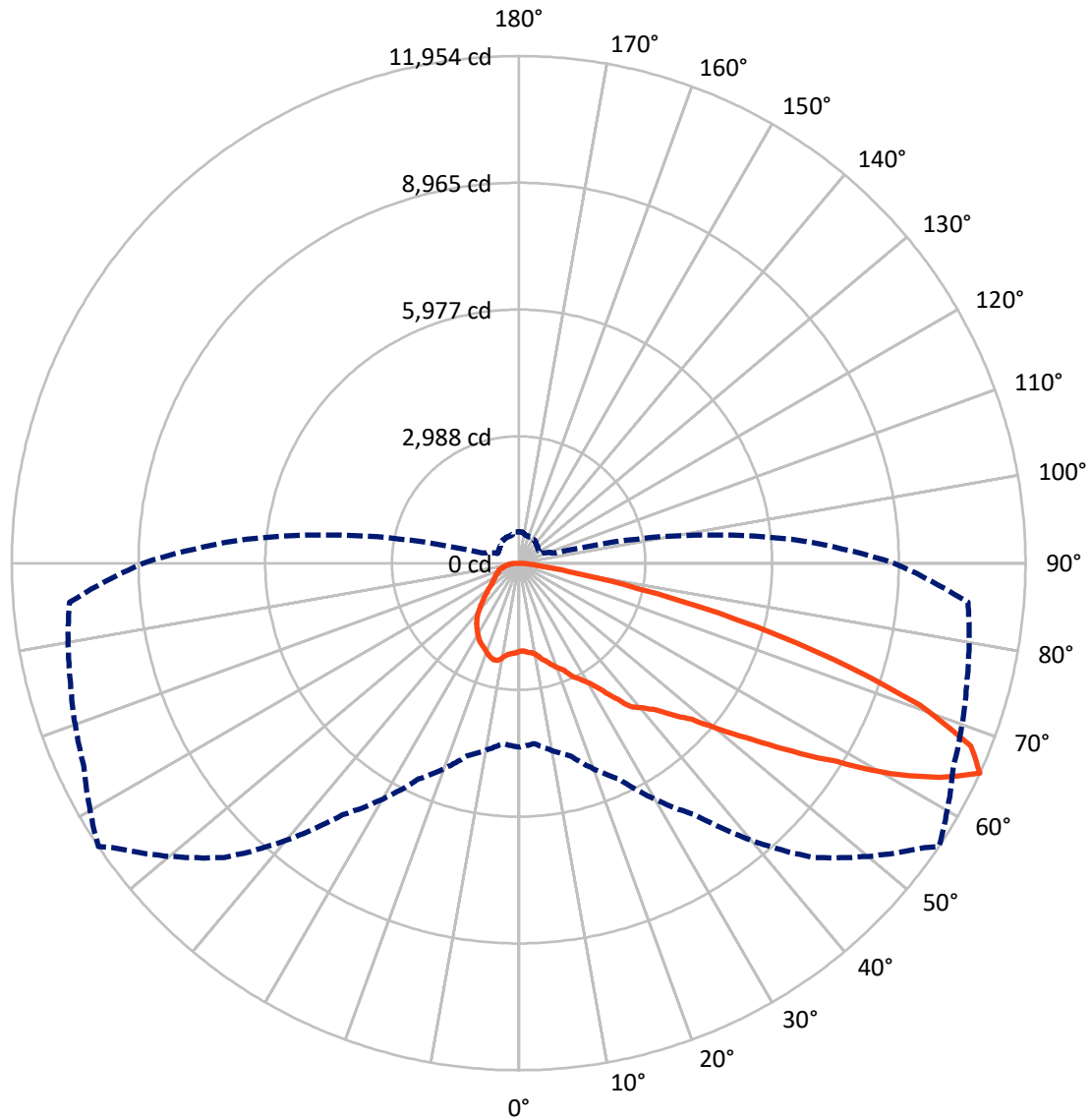
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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
<b>House Side</b>	Lumens	3886.8	0.0	3886.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	13444.2	0.0	13444.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	17331.0	0.0	17331.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.1	1.2
10°-20°	669.4	3.9
20°-30°	1191.9	6.9
30°-40°	1784.8	10.3
40°-50°	2644.4	15.3
50°-60°	4074.6	23.5
60°-70°	4612.9	26.6
70°-80°	1914.4	11.0
80°-90°	232.6	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°	17331.0	100.0
0°-180°	17331.0	100.0

**Coefficient of Utilization**

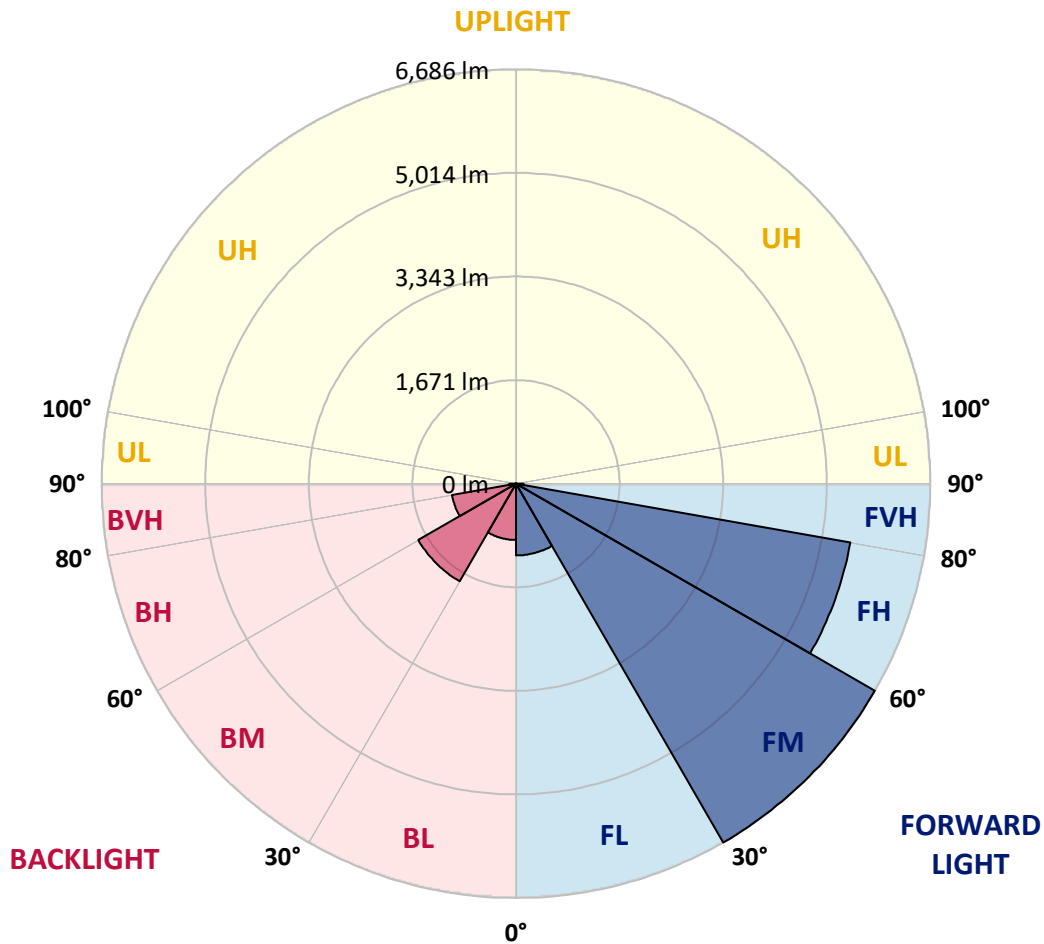


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1158.2	6.7			
FM (30°-60°)	6685.5	38.6			
FH (60°-80°)	5477.8	31.6			G3/7500
FVH (80°-90°)	122.7	0.7			G2/225
BL (0°-30°)	909.2	5.2	B2/1000		
BM (30°-60°)	1818.2	10.5	B2/2500		
BH (60°-80°)	1049.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	109.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2
2.5°	2025.8	2036.7	2029.4	2051.2	2069.3	2069.3	2083.8	2073.0	2087.5	2107.4
5°	2092.9	2049.4	2073.0	2083.8	2078.4	2087.5	2073.0	2109.2	2085.7	2123.7
7.5°	2109.2	2125.6	2145.5	2127.4	2143.7	2134.6	2136.4	2131.0	2118.3	2149.1
10°	2228.9	2205.4	2250.7	2223.5	2219.9	2216.2	2209.0	2181.8	2212.6	2214.4
12.5°	2366.8	2345.0	2343.2	2321.4	2350.4	2297.8	2308.7	2294.2	2299.7	2306.9
15°	2466.5	2457.4	2499.2	2473.8	2435.7	2412.1	2437.5	2397.6	2417.5	2413.9
17.5°	2664.2	2662.4	2631.6	2589.8	2568.1	2533.6	2528.2	2511.9	2526.4	2519.1
20°	2802.0	2822.0	2827.4	2778.5	2695.0	2656.9	2647.9	2635.2	2651.5	2646.1
22.5°	3012.4	2981.6	3005.2	2919.9	2889.1	2798.4	2765.8	2747.6	2825.6	2805.7
25°	3146.6	3179.3	3155.7	3126.7	3057.8	2945.3	2921.7	2961.6	2992.5	2970.7
27.5°	3449.5	3416.8	3395.1	3308.0	3262.7	3144.8	3117.6	3103.1	3110.3	3123.0
30°	3679.8	3698.0	3649.0	3587.3	3473.1	3353.4	3289.9	3277.2	3251.8	3230.0
32.5°	4008.1	3980.9	3951.9	3912.0	3814.0	3656.2	3594.6	3547.4	3471.3	3369.7
35°	4165.9	4243.9	4222.1	4115.1	4040.7	3980.9	3962.7	3890.2	3826.7	3667.1
37.5°	4428.8	4461.5	4430.7	4396.2	4361.7	4298.3	4276.5	4296.5	4171.3	3908.3
40°	4599.3	4668.2	4731.7	4635.6	4628.3	4641.0	4506.8	4483.3	4225.7	4087.9
42.5°	4947.5	4976.6	4989.3	4985.6	5027.3	5027.3	4771.6	4720.8	4537.7	4425.2
45°	5408.2	5431.8	5477.1	5509.8	5462.6	5486.2	5121.6	5101.7	4938.5	4916.7
47.5°	5807.2	5863.4	5965.0	6061.1	6122.8	6043.0	5644.0	5502.5	5460.8	5591.4
50°	6155.4	6088.3	6325.9	6423.8	6694.0	6826.4	6220.7	6164.5	6097.4	6347.6
52.5°	6189.9	6280.5	6616.1	6811.9	7368.7	7613.6	6928.0	6904.4	6822.8	7111.2
55°	6436.5	6425.6	6763.0	7187.4	7849.3	8261.0	7849.3	7834.8	7657.1	7930.9
57.5°	6394.8	6505.4	6772.0	7365.1	8282.8	8955.6	8917.5	8817.8	8569.3	8792.4
60°	6253.3	6282.4	6607.0	7359.6	8534.9	9668.4	10071.0	10090.9	9583.1	9760.9
62.5°	5451.7	5518.8	5930.5	6781.1	8355.3	10159.9	11197.3	11126.5	10720.3	10517.1
65°	4336.4	4269.2	4697.3	5616.8	7238.1	9811.7	11690.6	11953.5	11315.1	10943.3
67.5°	2658.8	2642.4	3054.1	3864.8	5415.5	8349.9	11297.0	11501.9	11150.1	10852.7
70°	1369.3	1327.6	1585.1	2156.4	3404.2	6126.4	9831.6	10032.9	10368.4	9733.7
72.5°	638.4	629.3	767.2	1061.0	1733.8	3601.8	7613.6	7758.6	8465.9	8206.6
75°	375.4	380.9	458.8	555.0	845.1	1697.5	5052.7	5333.8	6101.0	5914.2
77.5°	281.1	281.1	326.5	386.3	493.3	656.5	2493.7	2865.5	3567.4	3208.3
80°	206.8	210.4	250.3	290.2	342.8	339.1	990.2	1160.7	1635.9	1398.3
82.5°	161.4	166.9	194.1	215.8	241.2	204.9	406.2	437.1	672.9	535.0
85°	112.4	116.1	152.3	146.9	146.9	114.3	168.7	177.7	266.6	253.9
87.5°	27.2	30.8	74.4	81.6	61.7	34.5	52.6	59.8	96.1	110.6
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°
2080.2	0°	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2	2080.2
2116.5	2.5°	2089.3	2096.5	2127.4	2111.0	2120.1	2082.0	2112.9	2087.5	2109.2	2098.4
2132.8	5°	2147.3	2131.0	2149.1	2136.4	2136.4	2150.9	2172.7	2156.4	2189.0	2174.5
2145.5	7.5°	2170.9	2172.7	2183.6	2185.4	2176.3	2221.7	2223.5	2218.0	2248.9	2241.6
2232.6	10°	2228.9	2230.7	2250.7	2261.6	2252.5	2268.8	2250.7	2236.2	2234.4	2227.1
2301.5	12.5°	2321.4	2339.6	2335.9	2345.0	2346.8	2277.9	2236.2	2165.5	2156.4	2165.5
2403.0	15°	2406.7	2399.4	2403.0	2421.2	2345.0	2234.4	2160.0	2100.2	2103.8	2105.6
2535.4	17.5°	2508.2	2513.7	2519.1	2435.7	2296.0	2165.5	2100.2	2100.2	2082.0	2089.3
2627.9	20°	2624.3	2602.5	2555.4	2437.5	2210.8	2085.7	2065.7	2065.7	2043.9	2029.4
2727.7	22.5°	2715.0	2671.5	2600.7	2381.3	2134.6	2054.8	2005.9	1971.4	1946.0	1917.0
2838.3	25°	2773.0	2749.4	2611.6	2323.2	2078.4	1973.2	1900.7	1848.1	1815.4	1777.3
2925.4	27.5°	2861.9	2816.5	2642.4	2256.1	2016.7	1891.6	1779.2	1697.5	1635.9	1596.0
3057.8	30°	2981.6	2916.3	2620.7	2160.0	1922.4	1750.1	1617.7	1512.6	1441.8	1409.2
3182.9	32.5°	3079.5	2994.3	2602.5	2073.0	1817.2	1606.9	1430.9	1323.9	1284.0	1242.3
3393.3	35°	3266.3	3097.7	2589.8	2024.0	1722.9	1463.6	1278.6	1186.1	1135.3	1073.7
3518.4	37.5°	3409.6	3277.2	2559.0	1922.4	1601.4	1323.9	1162.5	1079.1	1002.9	937.6
3808.6	40°	3634.5	3527.5	2560.8	1779.2	1458.1	1204.2	1071.8	984.8	888.7	832.4
4238.4	42.5°	4057.1	3774.1	2571.7	1664.9	1296.7	1106.3	990.2	886.9	790.7	743.6
4728.1	45°	4575.7	4113.3	2504.6	1561.5	1131.7	1013.8	892.3	788.9	727.3	692.8
5393.7	47.5°	5172.4	4445.2	2413.9	1367.5	993.9	915.9	801.6	741.8	696.4	676.5
6251.5	50°	5839.8	4920.3	2388.5	1189.7	886.9	832.4	758.1	712.8	681.9	658.3
7218.2	52.5°	6699.5	5473.5	2337.7	1006.6	794.4	765.3	741.8	710.9	683.7	663.8
8119.5	55°	7521.1	6086.5	2283.3	856.0	729.1	732.7	745.4	718.2	694.6	663.8
9129.7	57.5°	8446.0	6712.2	2082.0	745.4	680.1	716.4	741.8	710.9	687.4	663.8
10163.5	60°	9017.3	7064.0	1688.5	649.3	636.6	685.5	720.0	687.4	662.0	671.0
10638.7	62.5°	9249.4	6879.0	1273.2	589.4	605.7	643.8	685.5	672.9	654.7	689.2
10633.2	65°	8854.1	6452.8	910.4	538.6	564.0	602.1	654.7	669.2	674.7	741.8
9766.3	67.5°	7878.3	5618.6	669.2	496.9	520.5	576.7	676.5	700.1	696.4	779.9
8195.7	70°	6304.1	4394.4	522.3	462.5	504.2	596.7	707.3	707.3	681.9	779.9
6251.5	72.5°	4586.6	3097.7	449.8	422.6	462.5	547.7	703.7	701.9	669.2	712.8
3980.9	75°	2776.6	1802.7	397.2	382.7	397.2	469.7	672.9	662.0	616.6	613.0
1915.2	77.5°	1383.8	906.8	324.6	339.1	346.4	393.6	591.2	607.6	545.9	531.4
756.3	80°	584.0	395.4	270.2	292.0	292.0	331.9	491.5	502.4	453.4	426.2
299.2	82.5°	266.6	226.7	230.3	253.9	237.6	257.5	389.9	402.6	368.2	322.8
127.0	85°	112.4	128.8	175.9	199.5	175.9	166.9	268.4	282.9	239.4	199.5
54.4	87.5°	50.8	70.7	110.6	145.1	88.9	78.0	143.3	148.7	119.7	88.9
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>
2080.2
2078.4
2154.6
2230.7
2227.1
2169.1
2131.0
2091.1
2007.7
1900.7
1784.6
1614.1
1427.3
1240.5
1068.2
939.5
837.9
747.2
700.1
672.9
662.0
662.0
662.0
662.0
663.8
680.1
741.8
785.3
763.5
687.4
605.7
522.3
417.1
315.6
201.3
83.4
0.0

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