

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: P477763

Luminaire Tested: **IFLD-S-SA2C-740-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477763
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

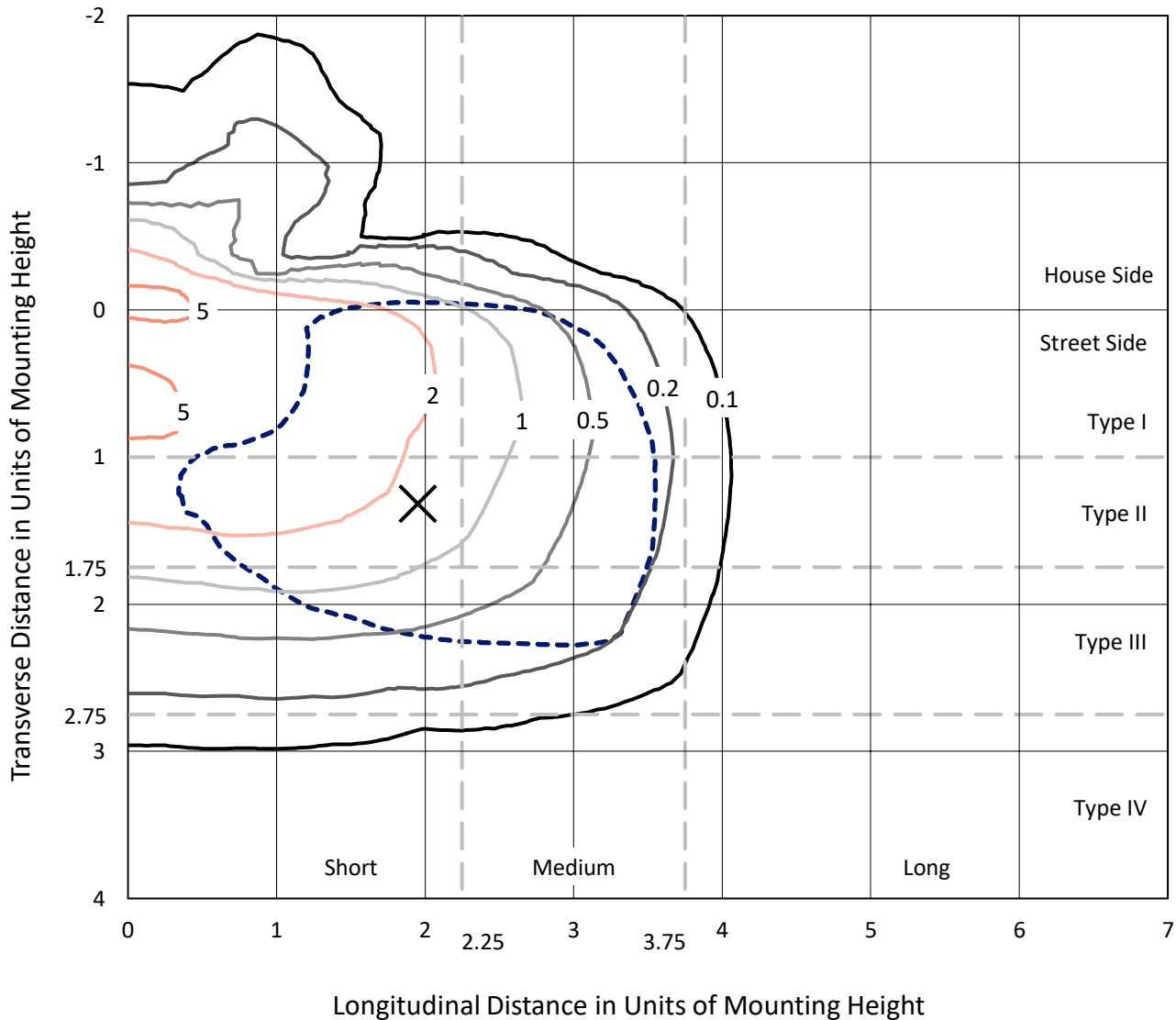
Lumens per Lamp: N/A
Luminaire Lumens: 13961.8 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

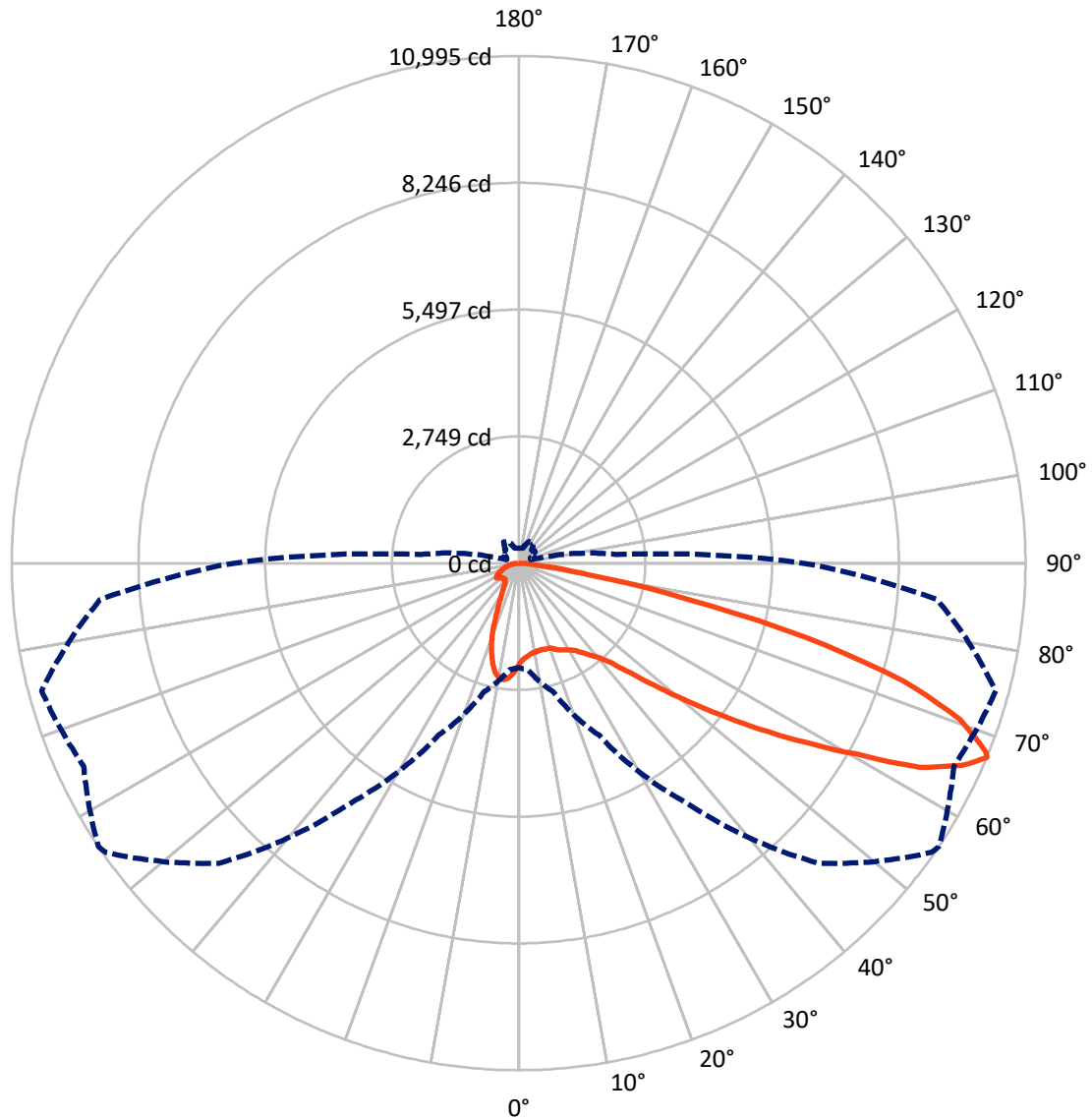
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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	2210.3	0.0	2210.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11751.5	0.0	11751.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	13961.8	0.0	13961.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.5
10°-20°	571.0	4.1
20°-30°	895.4	6.4
30°-40°	1278.2	9.2
40°-50°	1929.2	13.8
50°-60°	3071.0	22.0
60°-70°	3926.0	28.1
70°-80°	1914.2	13.7
80°-90°	167.4	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°	13961.8	100.0
0°-180°	13961.8	100.0

Coefficient of Utilization

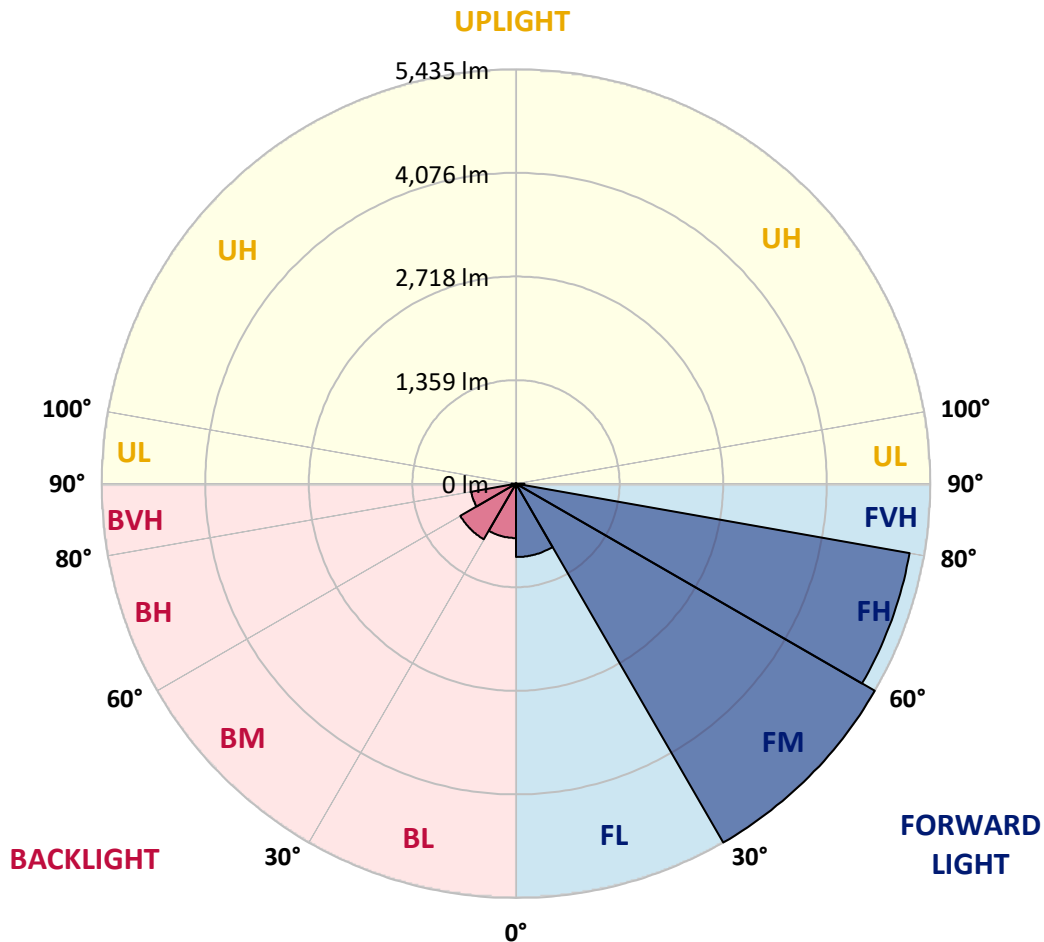


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.1	6.9			
FM (30°-60°)	5435.2	38.9			
FH (60°-80°)	5243.0	37.6			G3/7500
FVH (80°-90°)	111.2	0.8			G2/225
BL (0°-30°)	713.5	5.1	B2/1000		
BM (30°-60°)	843.3	6.0	B1/1000		
BH (60°-80°)	597.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	56.2	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4
2.5°	1995.6	1987.4	1997.2	1987.4	2031.6	2057.8	2066.0	2077.5	2118.4	2157.7
5°	1912.1	1876.1	1915.4	1928.5	1931.8	1976.0	2021.8	2030.0	2051.3	2115.1
7.5°	1773.0	1813.9	1799.2	1838.4	1879.4	1923.6	1998.9	1977.6	2056.2	2116.8
10°	1743.5	1746.8	1763.1	1777.9	1813.9	1871.2	1976.0	1962.9	2043.1	2172.4
12.5°	1773.0	1773.0	1768.1	1756.6	1797.5	1853.2	1936.7	1943.2	2069.3	2188.8
15°	1876.1	1895.7	1843.4	1851.5	1835.2	1853.2	1926.9	1941.6	2079.1	2201.9
17.5°	2128.2	2121.7	2059.5	1972.7	1900.7	1889.2	1939.9	1956.3	2069.3	2239.5
20°	2373.8	2360.7	2252.6	2162.6	2020.2	1953.0	1961.2	1962.9	2085.7	2264.1
22.5°	2647.2	2681.6	2563.7	2380.3	2203.5	2036.5	2003.8	2030.0	2123.3	2277.2
25°	3076.1	3002.4	2900.9	2660.3	2375.4	2165.9	2074.2	2087.3	2159.3	2309.9
27.5°	3385.5	3356.0	3197.2	3002.4	2616.1	2267.4	2111.8	2136.4	2224.8	2308.3
30°	3683.4	3683.4	3586.9	3295.5	2869.8	2437.6	2192.1	2180.6	2193.7	2305.0
32.5°	4032.1	3984.7	3845.5	3652.3	3189.0	2593.1	2255.9	2259.2	2259.2	2365.6
35°	4215.5	4292.4	4199.1	3884.8	3433.0	2851.8	2409.8	2385.2	2367.2	2432.7
37.5°	4484.0	4529.8	4431.6	4246.6	3735.8	3061.4	2545.7	2526.0	2421.3	2485.1
40°	4646.1	4637.9	4634.6	4549.5	4136.9	3308.6	2745.4	2694.6	2553.9	2670.1
42.5°	4737.7	4721.4	4922.7	4870.3	4515.1	3672.0	2995.9	2968.0	2812.5	2999.1
45°	4840.9	4962.0	5127.4	5274.7	4955.5	4182.8	3419.9	3380.6	3241.4	3478.8
47.5°	4930.9	5079.9	5291.1	5448.2	5353.3	4737.7	3943.7	3953.6	3861.9	4105.8
50°	5081.5	5096.3	5382.7	5700.3	5774.0	5250.1	4647.7	4631.3	4590.4	4932.5
52.5°	5035.7	5079.9	5441.7	5847.7	5968.8	5792.0	5404.0	5453.1	5399.1	5829.7
55°	4289.2	4421.8	5405.7	6003.2	6430.5	6404.3	6376.5	6343.7	6340.4	6838.1
57.5°	3950.3	4058.3	4762.3	6175.1	6924.9	7118.1	7298.1	7334.2	7332.5	7933.3
60°	3727.6	3839.0	4502.0	6081.8	7345.6	8052.8	8398.3	8403.2	8393.4	9103.8
62.5°	3292.2	3400.2	4051.8	5571.0	7461.8	8915.6	9685.0	9748.9	9298.7	10112.3
65°	2768.3	2856.7	3431.3	4790.1	7152.4	9464.0	10652.5	10577.2	10061.5	10688.5
67°	2264.1	2323.0	2882.9	4112.4	6343.7	9200.4	10932.5	10994.7	10413.5	10713.1
67.5°	2120.0	2174.1	2702.8	3881.5	6035.9	9000.7	10942.3	10932.5	10420.1	10718.0
70°	1471.7	1494.7	1841.7	2670.1	4446.3	7604.3	10143.4	10166.3	9983.0	10136.8
72.5°	975.7	1010.1	1231.1	1682.9	2621.0	5533.4	8478.5	8724.0	8607.8	8311.5
75°	628.6	648.3	805.4	1001.9	1290.0	3151.4	6263.5	6427.2	6160.4	5140.5
77.5°	352.0	373.3	486.2	609.0	628.6	1311.3	3518.1	3721.1	3153.0	2183.9
80°	219.4	247.2	366.7	361.8	299.6	481.3	1450.5	1553.6	1260.6	751.4
82.5°	165.3	186.6	283.2	253.7	168.6	214.5	543.5	582.8	461.7	289.8
85°	113.0	142.4	204.6	157.2	88.4	103.1	216.1	232.5	211.2	140.8
87.5°	40.9	60.6	106.4	78.6	39.3	31.1	70.4	78.6	75.3	63.8
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°
2172.4	0°	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4	2172.4
2192.1	2.5°	2223.2	2246.1	2257.5	2324.7	2352.5	2347.6	2354.1	2364.0	2373.8	2386.9
2219.9	5°	2241.2	2311.6	2349.2	2427.8	2480.2	2457.3	2486.7	2478.6	2467.1	2465.5
2270.6	7.5°	2300.1	2390.1	2503.1	2524.4	2547.3	2490.0	2440.9	2373.8	2357.4	2300.1
2313.2	10°	2404.9	2478.6	2616.1	2624.3	2522.8	2375.4	2265.7	2126.6	2124.9	2041.4
2378.7	12.5°	2504.7	2588.2	2699.6	2652.1	2409.8	2208.4	2030.0	1877.7	1813.9	1771.3
2418.0	15°	2567.0	2704.5	2763.4	2558.8	2211.7	1939.9	1709.1	1545.4	1479.9	1448.8
2467.1	17.5°	2624.3	2815.8	2789.6	2395.1	1967.8	1663.3	1388.3	1245.8	1227.8	1204.9
2545.7	20°	2702.8	2856.7	2696.3	2182.2	1691.1	1306.4	1131.2	1062.5	1078.8	1088.7
2553.9	22.5°	2776.5	2878.0	2578.4	1949.8	1335.9	1034.6	947.9	962.6	987.2	1019.9
2573.5	25°	2809.2	2912.4	2419.6	1628.9	1016.6	870.9	851.3	875.8	916.8	918.4
2601.3	27.5°	2830.5	2887.8	2228.1	1316.2	803.8	761.2	790.7	808.7	813.6	833.3
2660.3	30°	2868.2	2837.1	1985.8	941.3	674.5	676.1	713.8	713.8	713.8	728.5
2719.2	32.5°	2933.7	2802.7	1702.6	687.6	581.2	633.6	623.7	620.5	613.9	595.9
2794.5	35°	2974.6	2709.4	1344.0	509.1	522.2	581.2	577.9	527.1	442.0	399.4
2986.0	37.5°	3059.7	2661.9	988.8	392.9	487.9	555.0	537.0	414.2	320.9	279.9
3223.4	40°	3243.1	2630.8	684.3	343.8	464.9	541.9	479.7	353.6	245.6	173.5
3590.1	42.5°	3467.4	2632.4	464.9	324.1	466.6	569.7	461.7	302.9	173.5	139.2
4079.6	45°	3768.6	2607.9	319.2	324.1	496.0	615.5	473.1	275.0	168.6	176.8
4693.5	47.5°	4092.7	2629.2	237.4	294.7	500.9	617.2	432.2	270.1	162.1	204.6
5361.5	50°	4470.9	2650.4	196.5	271.8	502.6	597.5	397.8	263.6	168.6	216.1
6127.6	52.5°	4860.5	2717.6	167.0	257.0	522.2	589.4	397.8	273.4	168.6	188.3
7103.3	55°	5441.7	2889.5	240.7	320.9	594.3	643.4	489.5	383.1	235.7	242.3
8038.1	57.5°	6083.4	3066.3	268.5	337.2	610.6	579.5	527.1	422.4	248.8	250.5
8765.0	60°	6505.8	3072.8	266.8	329.1	571.3	500.9	515.7	445.3	253.7	214.5
9215.2	62.5°	6674.4	2873.1	278.3	329.1	532.1	468.2	528.8	479.7	261.9	268.5
9342.9	65°	6482.9	2460.5	268.5	294.7	468.2	419.1	532.1	486.2	286.5	270.1
9113.7	67°	6183.3	2120.0	273.4	279.9	435.5	397.8	559.9	510.8	332.3	324.1
8994.2	67.5°	6098.2	2030.0	271.8	271.8	424.0	391.3	566.4	510.8	338.9	335.6
7938.2	70°	5374.6	1645.3	278.3	268.5	374.9	371.6	602.4	538.6	389.6	392.9
5831.3	72.5°	4091.1	1247.5	276.7	268.5	325.8	355.2	607.4	556.6	424.0	392.9
3266.0	75°	2324.7	746.5	243.9	234.1	257.0	309.4	568.1	530.4	412.5	352.0
1304.8	77.5°	961.0	384.7	224.3	211.2	212.8	252.1	473.1	494.4	392.9	299.6
435.5	80°	358.5	230.8	180.1	168.6	163.7	185.0	337.2	394.5	335.6	245.6
191.5	82.5°	186.6	144.1	122.8	122.8	111.3	117.9	181.7	261.9	253.7	168.6
76.9	85°	95.0	81.9	70.4	68.8	62.2	55.7	91.7	155.5	145.7	93.3
34.4	87.5°	50.7	45.8	29.5	27.8	22.9	14.7	16.4	31.1	50.7	40.9
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>
2172.4
2400.0
2480.2
2319.8
2038.2
1761.5
1442.3
1216.4
1077.2
1001.9
934.8
851.3
744.9
586.1
419.1
278.3
168.6
135.9
180.1
227.6
250.5
193.2
255.4
242.3
221.0
271.8
265.2
319.2
329.1
363.4
348.7
314.3
283.2
224.3
132.6
76.9
29.5
0.0

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