

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: P477688

Luminaire Tested: **IFLD-S-SA3A-730-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477688
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

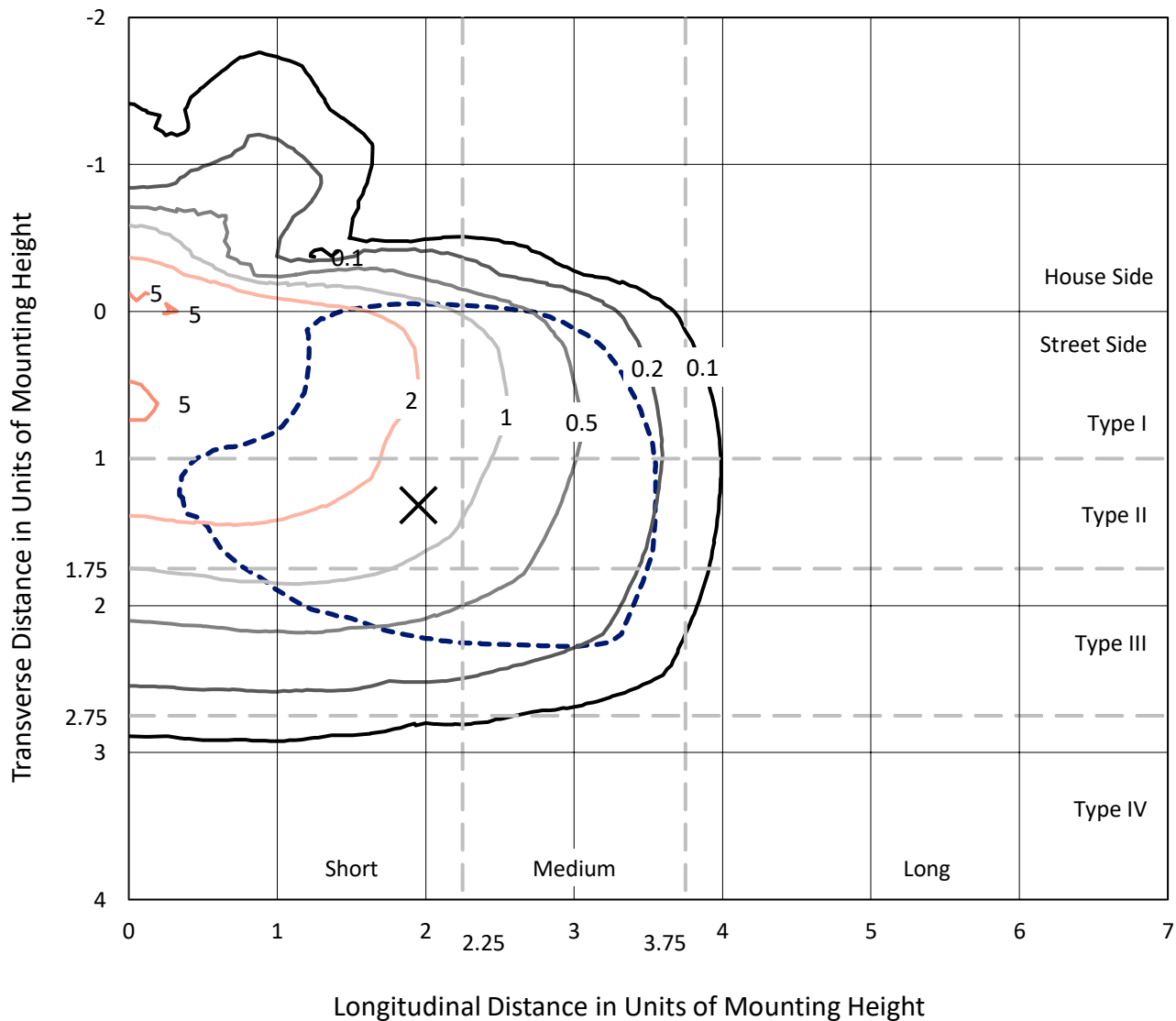
Lumens per Lamp: N/A
Luminaire Lumens: 12306.7 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

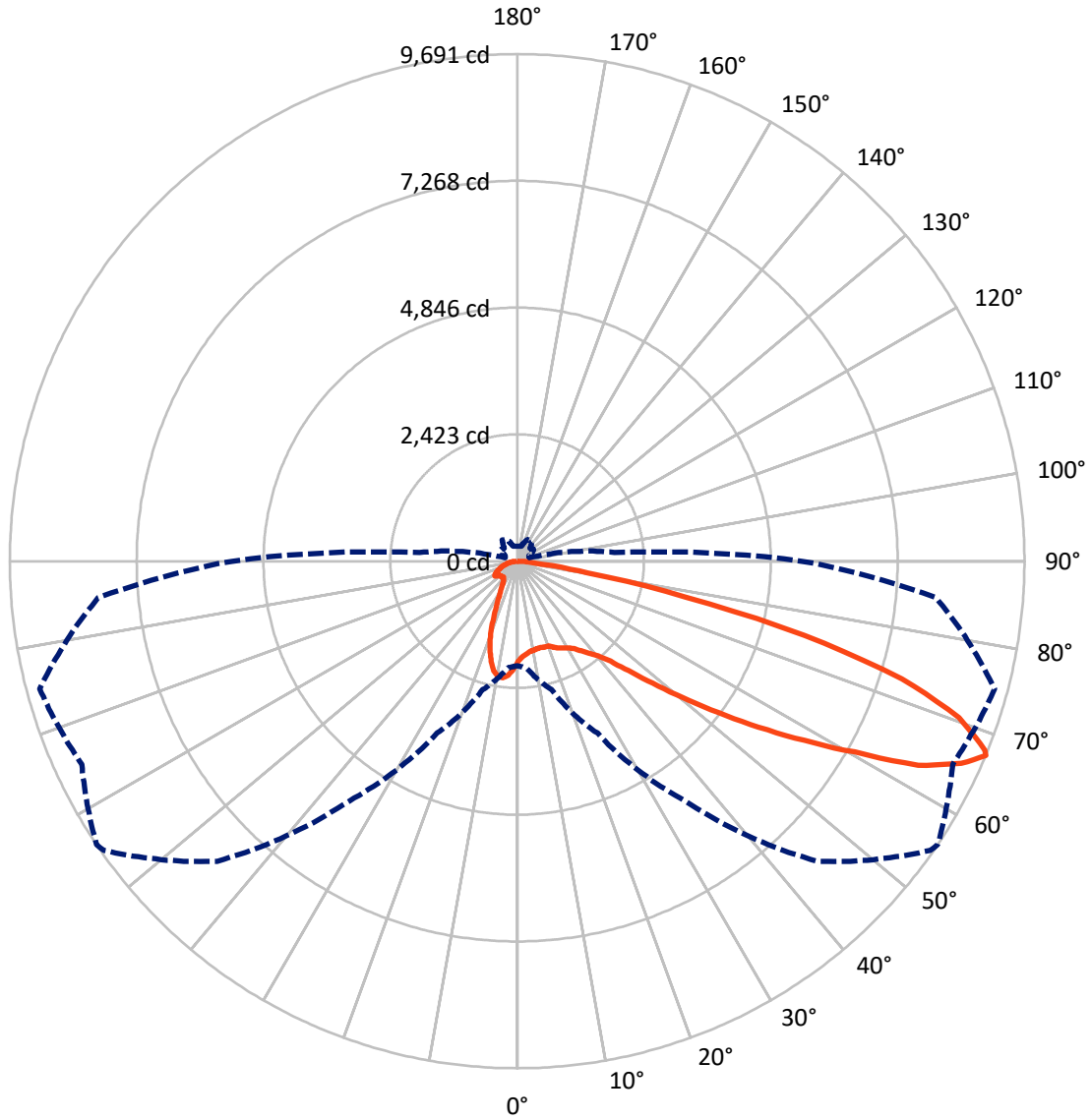
✕ Max cd
 - - - 1/2 Max cd



Based on 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	1948.3	0.0	1948.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	10358.4	0.0	10358.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	12306.7	0.0	12306.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.5	1.5
10°-20°	503.3	4.1
20°-30°	789.3	6.4
30°-40°	1126.7	9.2
40°-50°	1700.5	13.8
50°-60°	2706.9	22.0
60°-70°	3460.6	28.1
70°-80°	1687.3	13.7
80°-90°	147.6	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°	12306.7	100.0
0°-180°	12306.7	100.0

Coefficient of Utilization

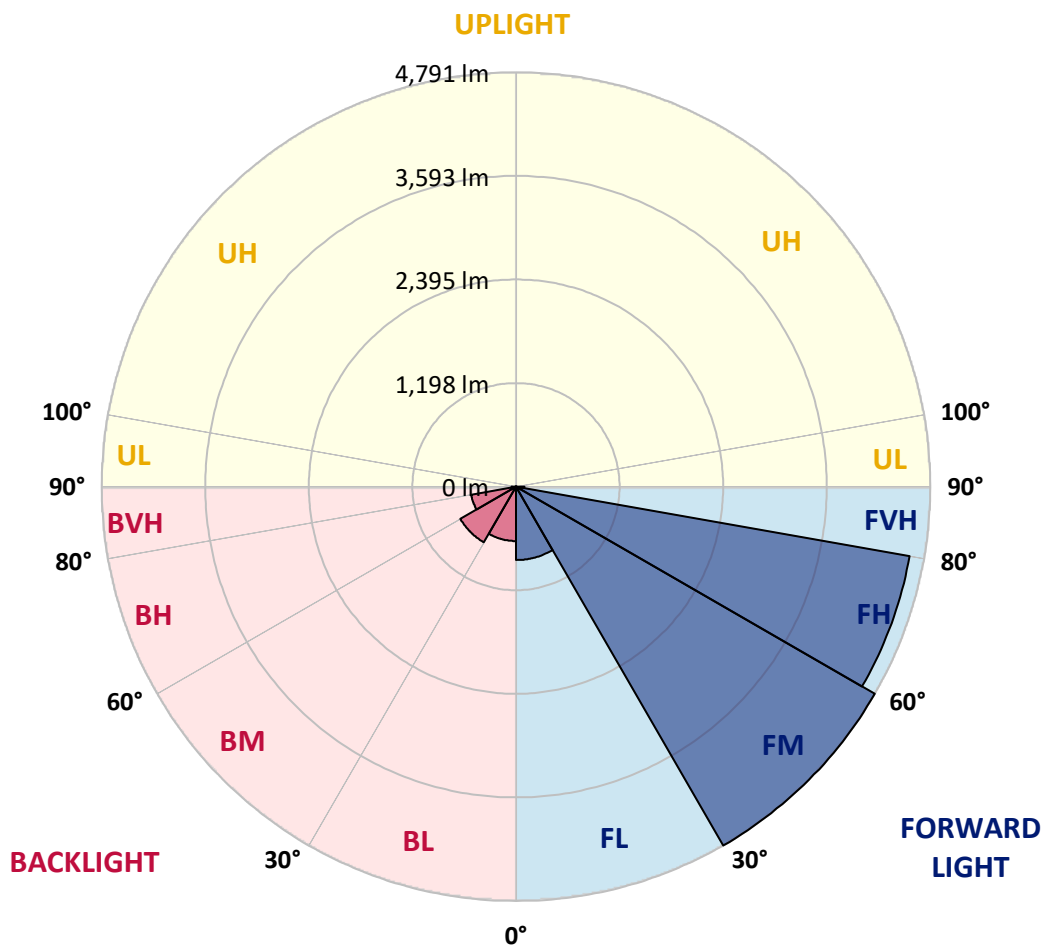


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	848.1	6.9			
FM (30°-60°)	4790.9	38.9			
FH (60°-80°)	4621.4	37.6			G2/5000
FVH (80°-90°)	98.0	0.8			G1/100
BL (0°-30°)	629.0	5.1	B2/1000		
BM (30°-60°)	743.3	6.0	B1/1000		
BH (60°-80°)	526.5	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°	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9
2.5°	1759.0	1751.8	1760.5	1751.8	1790.8	1813.9	1821.1	1831.2	1867.3	1901.9
5°	1685.5	1653.7	1688.3	1699.9	1702.8	1741.7	1782.1	1789.3	1808.1	1864.4
7.5°	1562.8	1598.9	1585.9	1620.5	1656.6	1695.6	1761.9	1743.2	1812.4	1865.8
10°	1536.8	1539.7	1554.1	1567.1	1598.9	1649.4	1741.7	1730.2	1800.9	1914.9
12.5°	1562.8	1562.8	1558.5	1548.4	1584.4	1633.5	1707.1	1712.9	1824.0	1929.3
15°	1653.7	1671.0	1624.8	1632.1	1617.6	1633.5	1698.4	1711.4	1832.6	1940.9
17.5°	1875.9	1870.2	1815.3	1738.8	1675.4	1665.2	1710.0	1724.4	1824.0	1974.1
20°	2092.4	2080.8	1985.6	1906.2	1780.7	1721.5	1728.7	1730.2	1838.4	1995.7
22.5°	2333.4	2363.7	2259.8	2098.2	1942.3	1795.1	1766.3	1789.3	1871.6	2007.2
25°	2711.4	2646.5	2557.0	2344.9	2093.8	1909.1	1828.3	1839.9	1903.3	2036.1
27.5°	2984.2	2958.2	2818.2	2646.5	2306.0	1998.6	1861.5	1883.1	1961.1	2034.7
30°	3246.8	3246.8	3161.7	2904.8	2529.6	2148.7	1932.2	1922.1	1933.7	2031.8
32.5°	3554.2	3512.3	3389.7	3219.4	2811.0	2285.8	1988.5	1991.4	1991.4	2085.2
35°	3715.8	3783.6	3701.4	3424.3	3026.0	2513.7	2124.1	2102.5	2086.6	2144.3
37.5°	3952.4	3992.8	3906.3	3743.2	3293.0	2698.5	2243.9	2226.6	2134.2	2190.5
40°	4095.3	4088.1	4085.2	4010.2	3646.5	2916.4	2420.0	2375.2	2251.1	2353.6
42.5°	4176.1	4161.7	4339.2	4293.0	3979.9	3236.7	2640.7	2616.2	2479.1	2643.6
45°	4267.0	4373.8	4519.6	4649.4	4368.0	3686.9	3014.5	2979.8	2857.2	3066.4
47.5°	4346.4	4477.7	4663.9	4802.4	4718.7	4176.1	3476.2	3484.9	3404.1	3619.1
50°	4479.1	4492.1	4744.7	5024.6	5089.5	4627.8	4096.7	4082.3	4046.2	4347.8
52.5°	4438.7	4477.7	4796.6	5154.5	5261.3	5105.4	4763.4	4806.7	4759.1	5138.6
55°	3780.7	3897.6	4764.9	5291.6	5668.2	5645.1	5620.6	5591.7	5588.8	6027.5
57.5°	3482.0	3577.3	4197.8	5443.1	6104.0	6274.3	6433.0	6464.7	6463.3	6992.9
60°	3285.8	3383.9	3968.3	5360.8	6474.8	7098.2	7402.7	7407.0	7398.4	8024.7
62.5°	2901.9	2997.2	3571.5	4910.6	6577.3	7858.7	8536.9	8593.2	8196.4	8913.6
65°	2440.2	2518.1	3024.6	4222.3	6304.6	8342.1	9389.8	9323.4	8868.8	9421.5
67°	1995.7	2047.7	2541.2	3624.9	5591.7	8109.8	9636.5	9691.3	9179.1	9443.1
67.5°	1868.7	1916.3	2382.4	3421.4	5320.4	7933.7	9645.2	9636.5	9184.8	9447.5
70°	1297.3	1317.5	1623.4	2353.6	3919.3	6702.8	8941.0	8961.2	8799.6	8935.2
72.5°	860.0	890.3	1085.2	1483.4	2310.3	4877.4	7473.4	7689.9	7587.4	7326.2
75°	554.1	571.4	710.0	883.1	1137.1	2777.8	5521.0	5665.3	5430.1	4531.1
77.5°	310.3	329.0	428.6	536.8	554.1	1155.9	3101.1	3280.0	2779.3	1925.0
80°	193.4	217.9	323.2	318.9	264.1	424.2	1278.5	1369.4	1111.1	662.3
82.5°	145.7	164.5	249.6	223.7	148.6	189.0	479.1	513.7	406.9	255.4
85°	99.6	125.5	180.4	138.5	77.9	90.9	190.5	204.9	186.2	124.1
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°
1914.9	0°	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9	1914.9
1932.2	2.5°	1959.6	1979.8	1989.9	2049.1	2073.6	2069.3	2075.1	2083.7	2092.4	2103.9
1956.7	5°	1975.5	2037.5	2070.7	2140.0	2186.2	2166.0	2192.0	2184.7	2174.6	2173.2
2001.5	7.5°	2027.4	2106.8	2206.4	2225.1	2245.3	2194.8	2151.5	2092.4	2078.0	2027.4
2039.0	10°	2119.8	2184.7	2306.0	2313.2	2223.7	2093.8	1997.1	1874.5	1873.0	1799.5
2096.7	12.5°	2207.8	2281.4	2379.5	2337.7	2124.1	1946.6	1789.3	1655.1	1598.9	1561.4
2131.3	15°	2262.7	2383.9	2435.8	2255.4	1949.5	1710.0	1506.5	1362.2	1304.5	1277.1
2174.6	17.5°	2313.2	2482.0	2458.9	2111.1	1734.5	1466.1	1223.7	1098.1	1082.3	1062.1
2243.9	20°	2382.4	2518.1	2376.7	1923.6	1490.6	1151.5	997.1	936.5	951.0	959.6
2251.1	22.5°	2447.4	2536.8	2272.8	1718.6	1177.5	912.0	835.5	848.5	870.1	899.0
2268.4	25°	2476.2	2567.1	2132.8	1435.8	896.1	767.7	750.4	772.0	808.1	809.5
2293.0	27.5°	2495.0	2545.5	1964.0	1160.2	708.5	671.0	697.0	712.9	717.2	734.5
2344.9	30°	2528.2	2500.8	1750.4	829.7	594.5	596.0	629.2	629.2	629.2	642.1
2396.9	32.5°	2585.9	2470.5	1500.7	606.1	512.3	558.5	549.8	546.9	541.1	525.3
2463.2	35°	2622.0	2388.2	1184.7	448.8	460.3	512.3	509.4	464.7	389.6	352.1
2632.1	37.5°	2697.0	2346.4	871.6	346.3	430.0	489.2	473.3	365.1	282.8	246.8
2841.3	40°	2858.6	2318.9	603.2	303.0	409.8	477.6	422.8	311.7	216.5	153.0
3164.6	42.5°	3056.3	2320.4	409.8	285.7	411.3	502.2	406.9	267.0	153.0	122.7
3596.0	45°	3321.8	2298.7	281.4	285.7	437.2	542.6	417.0	242.4	148.6	155.8
4137.1	47.5°	3607.6	2317.5	209.2	259.7	441.6	544.0	381.0	238.1	142.9	180.4
4725.9	50°	3940.9	2336.3	173.2	239.5	443.0	526.7	350.7	232.3	148.6	190.5
5401.2	52.5°	4284.3	2395.4	147.2	226.6	460.3	519.5	350.7	241.0	148.6	165.9
6261.3	55°	4796.6	2546.9	212.1	282.8	523.8	567.1	431.5	337.7	207.8	213.6
7085.2	57.5°	5362.3	2702.8	236.7	297.3	538.2	510.8	464.7	372.3	219.3	220.8
7726.0	60°	5734.6	2708.6	235.2	290.0	503.6	441.6	454.6	392.5	223.7	189.0
8122.8	62.5°	5883.2	2532.5	245.3	290.0	469.0	412.7	466.1	422.8	230.9	236.7
8235.3	65°	5714.4	2168.9	236.7	259.7	412.7	369.4	469.0	428.6	252.5	238.1
8033.3	67°	5450.3	1868.7	241.0	246.8	383.8	350.7	493.5	450.2	292.9	285.7
7928.0	67.5°	5375.3	1789.3	239.5	239.5	373.7	344.9	499.3	450.2	298.7	295.8
6997.2	70°	4737.4	1450.2	245.3	236.7	330.5	327.6	531.0	474.8	343.4	346.3
5140.1	72.5°	3606.1	1099.6	243.9	236.7	287.2	313.1	535.4	490.6	373.7	346.3
2878.8	75°	2049.1	658.0	215.0	206.4	226.6	272.7	500.7	467.5	363.6	310.3
1150.1	77.5°	847.1	339.1	197.7	186.2	187.6	222.2	417.0	435.8	346.3	264.1
383.8	80°	316.0	203.5	158.7	148.6	144.3	163.1	297.3	347.8	295.8	216.5
168.8	82.5°	164.5	127.0	108.2	108.2	98.1	103.9	160.2	230.9	223.7	148.6
67.8	85°	83.7	72.2	62.1	60.6	54.8	49.1	80.8	137.1	128.4	82.3
30.3	87.5°	44.7	40.4	26.0	24.5	20.2	13.0	14.4	27.4	44.7	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

(END O



<u>180°</u>
1914.9
2115.5
2186.2
2044.8
1796.6
1552.7
1271.3
1072.2
949.5
883.1
824.0
750.4
656.6
516.6
369.4
245.3
148.6
119.8
158.7
200.6
220.8
170.3
225.1
213.6
194.8
239.5
233.8
281.4
290.0
320.4
307.4
277.1
249.6
197.7
116.9
67.8
26.0
0.0

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