

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: P477805

Luminaire Tested: **IFLD-S-SA3A-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477805
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

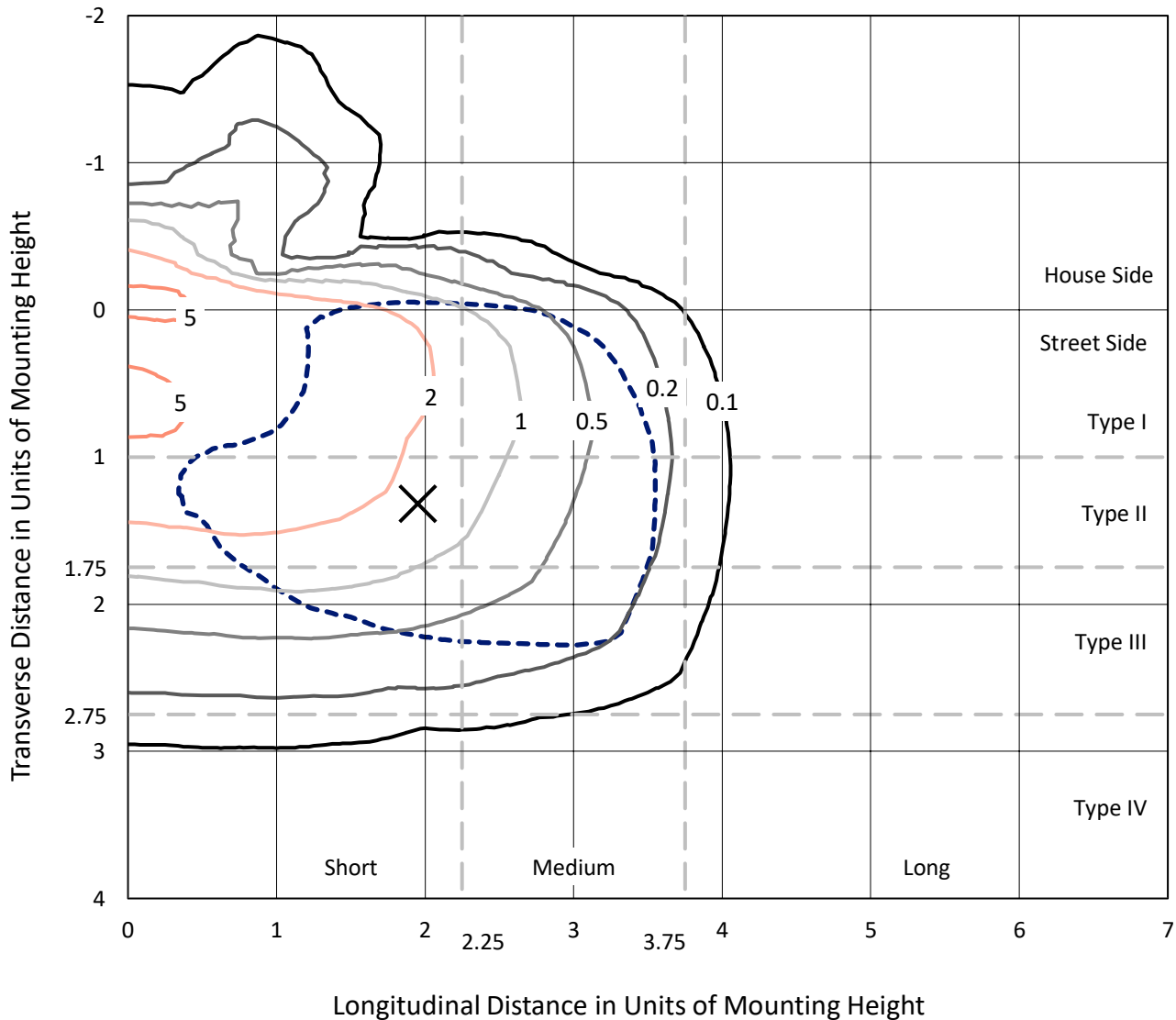
Lumens per Lamp: N/A
Luminaire Lumens: 13824.4 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

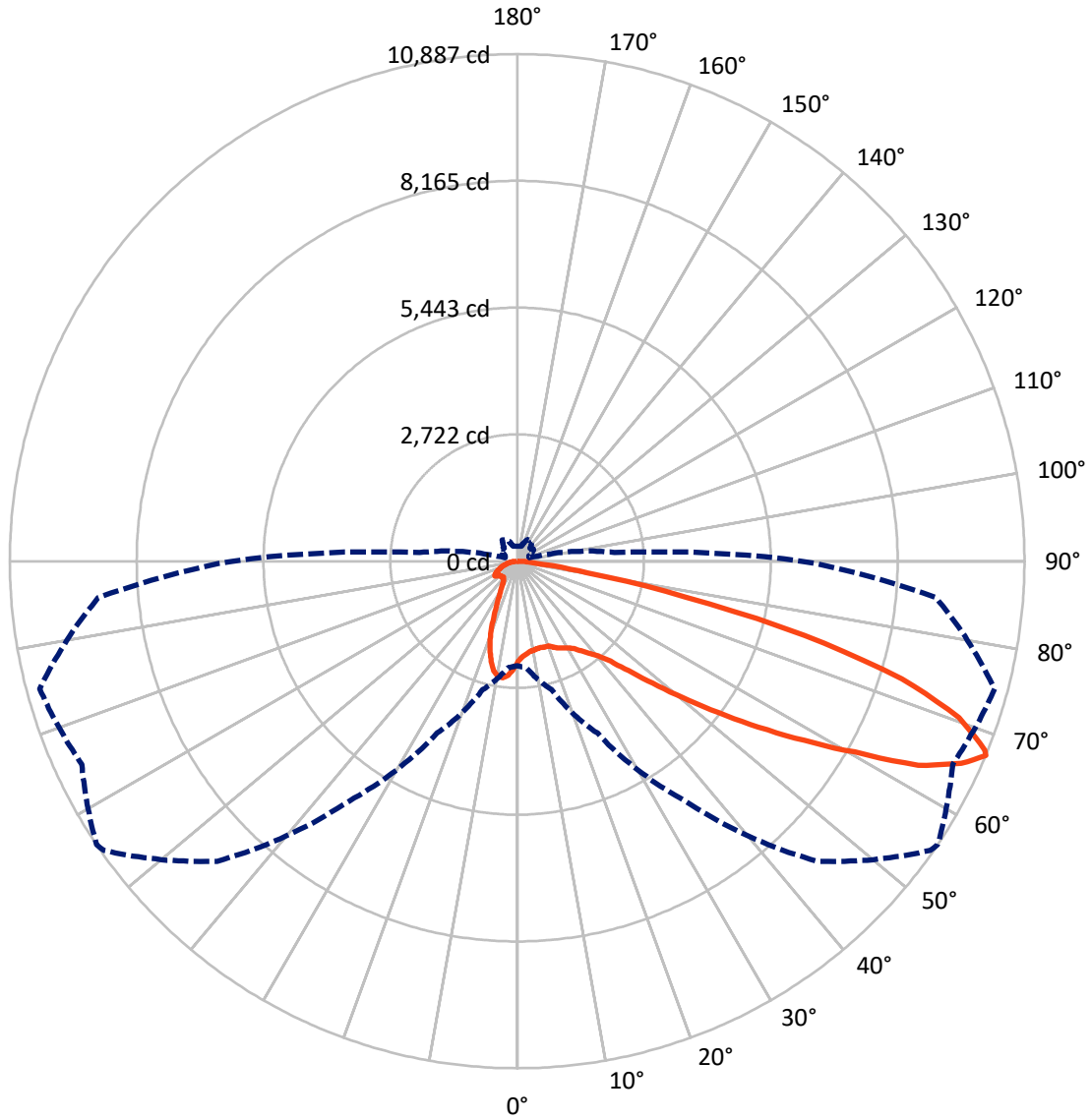
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	2188.6	0.0	2188.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11635.9	0.0	11635.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	13824.4	0.0	13824.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.2	1.5
10°-20°	565.3	4.1
20°-30°	886.6	6.4
30°-40°	1265.7	9.2
40°-50°	1910.2	13.8
50°-60°	3040.8	22.0
60°-70°	3887.4	28.1
70°-80°	1895.4	13.7
80°-90°	165.8	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°	13824.4	100.0
0°-180°	13824.4	100.0

Coefficient of Utilization

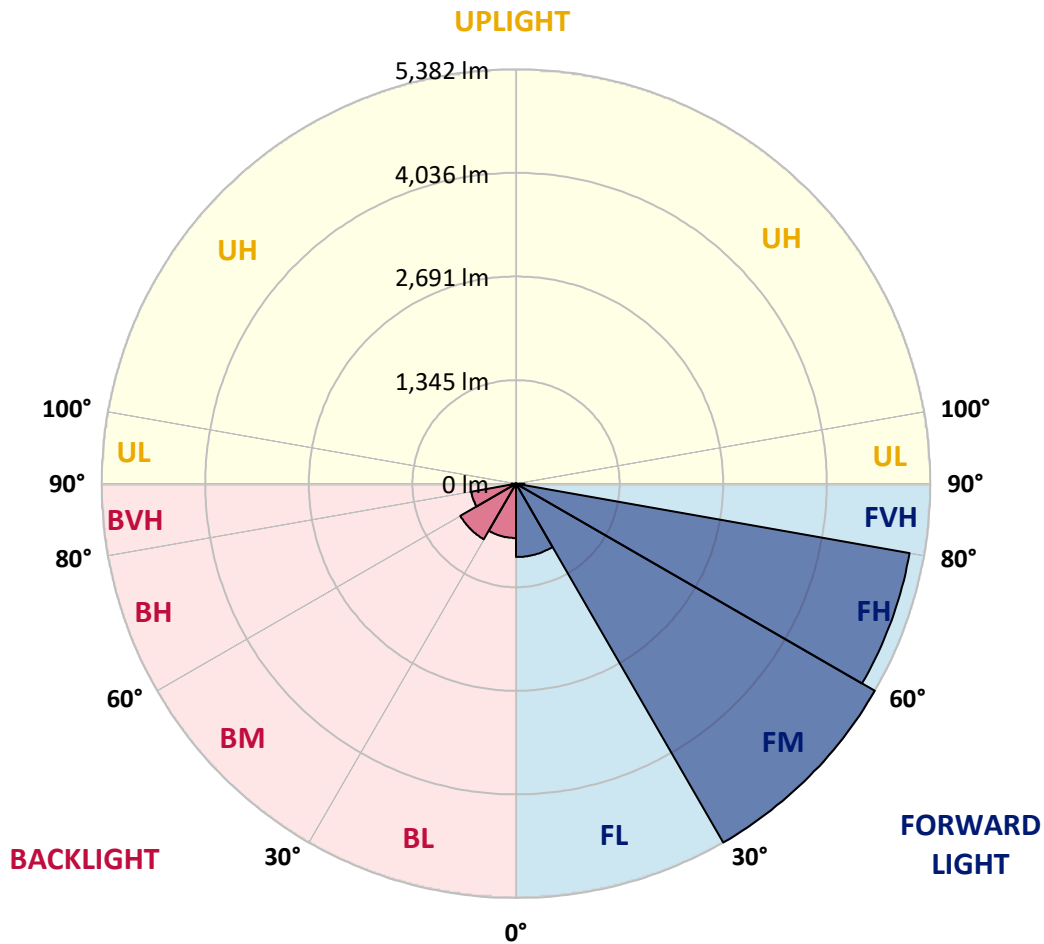


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.7	6.9			
FM (30°-60°)	5381.7	38.9			
FH (60°-80°)	5191.4	37.6			G3/7500
FVH (80°-90°)	110.1	0.8			G2/225
BL (0°-30°)	706.5	5.1	B2/1000		
BM (30°-60°)	835.0	6.0	B1/1000		
BH (60°-80°)	591.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	55.7	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°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
2.5°	1976.0	1967.9	1977.6	1967.9	2011.6	2037.6	2045.7	2057.0	2097.6	2136.5
5°	1893.3	1857.6	1896.6	1909.5	1912.8	1956.5	2001.9	2010.0	2031.1	2094.3
7.5°	1755.5	1796.1	1781.5	1820.4	1860.9	1904.7	1979.2	1958.2	2036.0	2095.9
10°	1726.3	1729.6	1745.8	1760.4	1796.1	1852.8	1956.5	1943.6	2023.0	2151.0
12.5°	1755.5	1755.5	1750.7	1739.3	1779.8	1835.0	1917.6	1924.1	2048.9	2167.3
15°	1857.6	1877.1	1825.2	1833.3	1817.1	1835.0	1907.9	1922.5	2058.7	2180.2
17.5°	2107.3	2100.8	2039.2	1953.3	1882.0	1870.6	1920.9	1937.1	2048.9	2217.5
20°	2350.4	2337.5	2230.5	2141.3	2000.3	1933.8	1941.9	1943.6	2065.1	2241.8
22.5°	2621.1	2655.2	2538.5	2356.9	2181.8	2016.5	1984.1	2010.0	2102.4	2254.8
25°	3045.8	2972.9	2872.4	2634.1	2352.0	2144.6	2053.8	2066.8	2138.1	2287.2
27.5°	3352.2	3323.0	3165.8	2972.9	2590.3	2245.1	2091.1	2115.4	2202.9	2285.6
30°	3647.2	3647.2	3551.6	3263.0	2841.6	2413.6	2170.5	2159.2	2172.1	2282.3
32.5°	3992.5	3945.5	3807.7	3616.4	3157.7	2567.6	2233.7	2237.0	2237.0	2342.3
35°	4174.0	4250.2	4157.8	3846.6	3399.2	2823.8	2386.1	2361.8	2343.9	2408.8
37.5°	4439.9	4485.3	4388.0	4204.8	3699.1	3031.2	2520.6	2501.2	2397.4	2460.7
40°	4600.4	4592.3	4589.0	4504.7	4096.2	3276.0	2718.4	2668.1	2528.7	2643.8
42.5°	4691.1	4674.9	4874.3	4822.4	4470.7	3635.9	2966.4	2938.8	2784.9	2969.6
45°	4793.3	4913.2	5076.9	5222.8	4906.7	4141.6	3386.2	3347.3	3209.6	3444.6
47.5°	4882.4	5029.9	5239.0	5394.6	5300.6	4691.1	3905.0	3914.7	3823.9	4065.4
50°	5031.5	5046.1	5329.8	5644.3	5717.2	5198.5	4602.0	4585.8	4545.2	4884.0
52.5°	4986.2	5029.9	5388.2	5790.2	5910.1	5735.0	5350.9	5399.5	5346.0	5772.3
55°	4247.0	4378.3	5352.5	5944.2	6367.2	6341.3	6313.7	6281.3	6278.1	6770.9
57.5°	3911.4	4018.4	4715.4	6114.4	6856.8	7048.0	7226.4	7262.0	7260.4	7855.3
60°	3691.0	3801.2	4457.7	6022.0	7273.4	7973.6	8315.7	8320.5	8310.8	9014.3
62.5°	3259.8	3366.8	4011.9	5516.2	7388.5	8827.9	9589.7	9653.0	9207.2	10012.8
65°	2741.1	2828.6	3397.6	4743.0	7082.1	9370.9	10547.8	10473.2	9962.6	10583.4
67°	2241.8	2300.2	2854.6	4071.9	6281.3	9109.9	10824.9	10886.5	10311.1	10607.7
67.5°	2099.2	2152.7	2676.2	3843.4	5976.6	8912.2	10834.7	10824.9	10317.6	10612.6
70°	1457.3	1480.0	1823.6	2643.8	4402.6	7529.5	10043.6	10066.3	9884.8	10037.1
72.5°	966.1	1000.1	1219.0	1666.4	2595.2	5478.9	8395.1	8638.2	8523.1	8229.7
75°	622.5	641.9	797.5	992.0	1277.3	3120.4	6201.9	6364.0	6099.8	5089.9
77.5°	348.5	369.6	481.4	603.0	622.5	1298.4	3483.5	3684.5	3122.0	2162.4
80°	217.2	244.8	363.1	358.2	296.6	476.6	1436.2	1538.3	1248.2	744.0
82.5°	163.7	184.8	280.4	251.3	167.0	212.3	538.2	577.1	457.1	286.9
85°	111.8	141.0	202.6	155.6	87.5	102.1	214.0	230.2	209.1	139.4
87.5°	40.5	60.0	105.4	77.8	38.9	30.8	69.7	77.8	74.6	63.2
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°
2151.0	0°	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0	2151.0
2170.5	2.5°	2201.3	2224.0	2235.3	2301.8	2329.4	2324.5	2331.0	2340.7	2350.4	2363.4
2198.1	5°	2219.1	2288.8	2326.1	2403.9	2455.8	2433.1	2462.3	2454.2	2442.8	2441.2
2248.3	7.5°	2277.5	2366.6	2478.5	2499.6	2522.3	2465.5	2416.9	2350.4	2334.2	2277.5
2290.5	10°	2381.2	2454.2	2590.3	2598.4	2497.9	2352.0	2243.4	2105.7	2104.0	2021.4
2355.3	12.5°	2480.1	2562.8	2673.0	2626.0	2386.1	2186.7	2010.0	1859.3	1796.1	1753.9
2394.2	15°	2541.7	2677.9	2736.2	2533.6	2190.0	1920.9	1692.3	1530.2	1465.4	1434.6
2442.8	17.5°	2598.4	2788.1	2762.2	2371.5	1948.4	1646.9	1374.6	1233.6	1215.7	1193.0
2520.6	20°	2676.2	2828.6	2669.8	2160.8	1674.5	1293.5	1120.1	1052.0	1068.2	1078.0
2528.7	22.5°	2749.2	2849.7	2553.1	1930.6	1322.7	1024.5	938.6	953.1	977.5	1009.9
2548.2	25°	2781.6	2883.7	2395.8	1612.9	1006.6	862.4	842.9	867.2	907.8	909.4
2575.7	27.5°	2802.7	2859.4	2206.2	1303.3	795.9	753.8	782.9	800.8	805.6	825.1
2634.1	30°	2840.0	2809.2	1966.3	932.1	667.8	669.5	706.7	706.7	706.7	721.3
2692.5	32.5°	2904.8	2775.1	1685.8	680.8	575.4	627.3	617.6	614.4	607.9	590.0
2767.0	35°	2945.3	2682.7	1330.8	504.1	517.1	575.4	572.2	522.0	437.7	395.5
2956.7	37.5°	3029.6	2635.7	979.1	389.0	483.1	549.5	531.7	410.1	317.7	277.2
3191.7	40°	3211.2	2604.9	677.6	340.4	460.4	536.5	474.9	350.1	243.1	171.8
3554.8	42.5°	3433.2	2606.5	460.4	321.0	462.0	564.1	457.1	299.9	171.8	137.8
4039.5	45°	3731.5	2582.2	316.1	321.0	491.2	609.5	468.5	272.3	167.0	175.1
4647.4	47.5°	4052.5	2603.3	235.0	291.8	496.0	611.1	427.9	267.5	160.5	202.6
5308.7	50°	4426.9	2624.4	194.5	269.1	497.6	591.7	393.9	261.0	167.0	214.0
6067.3	52.5°	4812.7	2690.8	165.3	254.5	517.1	583.6	393.9	270.7	167.0	186.4
7033.5	55°	5388.2	2861.0	238.3	317.7	588.4	637.0	484.7	379.3	233.4	239.9
7959.0	57.5°	6023.6	3036.1	265.8	333.9	604.6	573.8	522.0	418.2	246.4	248.0
8678.8	60°	6441.8	3042.6	264.2	325.8	565.7	496.0	510.6	440.9	251.3	212.3
9124.5	62.5°	6608.8	2844.8	275.6	325.8	526.8	463.6	523.6	474.9	259.4	265.8
9251.0	65°	6419.1	2436.3	265.8	291.8	463.6	415.0	526.8	481.4	283.7	267.5
9024.0	67°	6122.5	2099.2	270.7	277.2	431.2	393.9	554.4	505.7	329.1	321.0
8905.7	67.5°	6038.2	2010.0	269.1	269.1	419.8	387.4	560.9	505.7	335.5	332.3
7860.2	70°	5321.7	1629.1	275.6	265.8	371.2	368.0	596.5	533.3	385.8	389.0
5773.9	72.5°	4050.8	1235.2	273.9	265.8	322.6	351.8	601.4	551.1	419.8	389.0
3233.9	75°	2301.8	739.2	241.5	231.8	254.5	306.4	562.5	525.2	408.5	348.5
1291.9	77.5°	951.5	380.9	222.1	209.1	210.7	249.6	468.5	489.5	389.0	296.6
431.2	80°	355.0	228.6	178.3	167.0	162.1	183.2	333.9	390.7	332.3	243.1
189.7	82.5°	184.8	142.6	121.6	121.6	110.2	116.7	179.9	259.4	251.3	167.0
76.2	85°	94.0	81.0	69.7	68.1	61.6	55.1	90.8	154.0	144.3	92.4
34.0	87.5°	50.3	45.4	29.2	27.6	22.7	14.6	16.2	30.8	50.3	40.5
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>
2151.0
2376.4
2455.8
2296.9
2018.1
1744.2
1428.1
1204.4
1066.6
992.0
925.6
842.9
737.5
580.3
415.0
275.6
167.0
134.5
178.3
225.3
248.0
191.3
252.9
239.9
218.8
269.1
262.6
316.1
325.8
359.9
345.3
311.2
280.4
222.1
131.3
76.2
29.2
0.0

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