

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: P477686

Luminaire Tested: **IFLD-S-SA2D-730-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477686
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

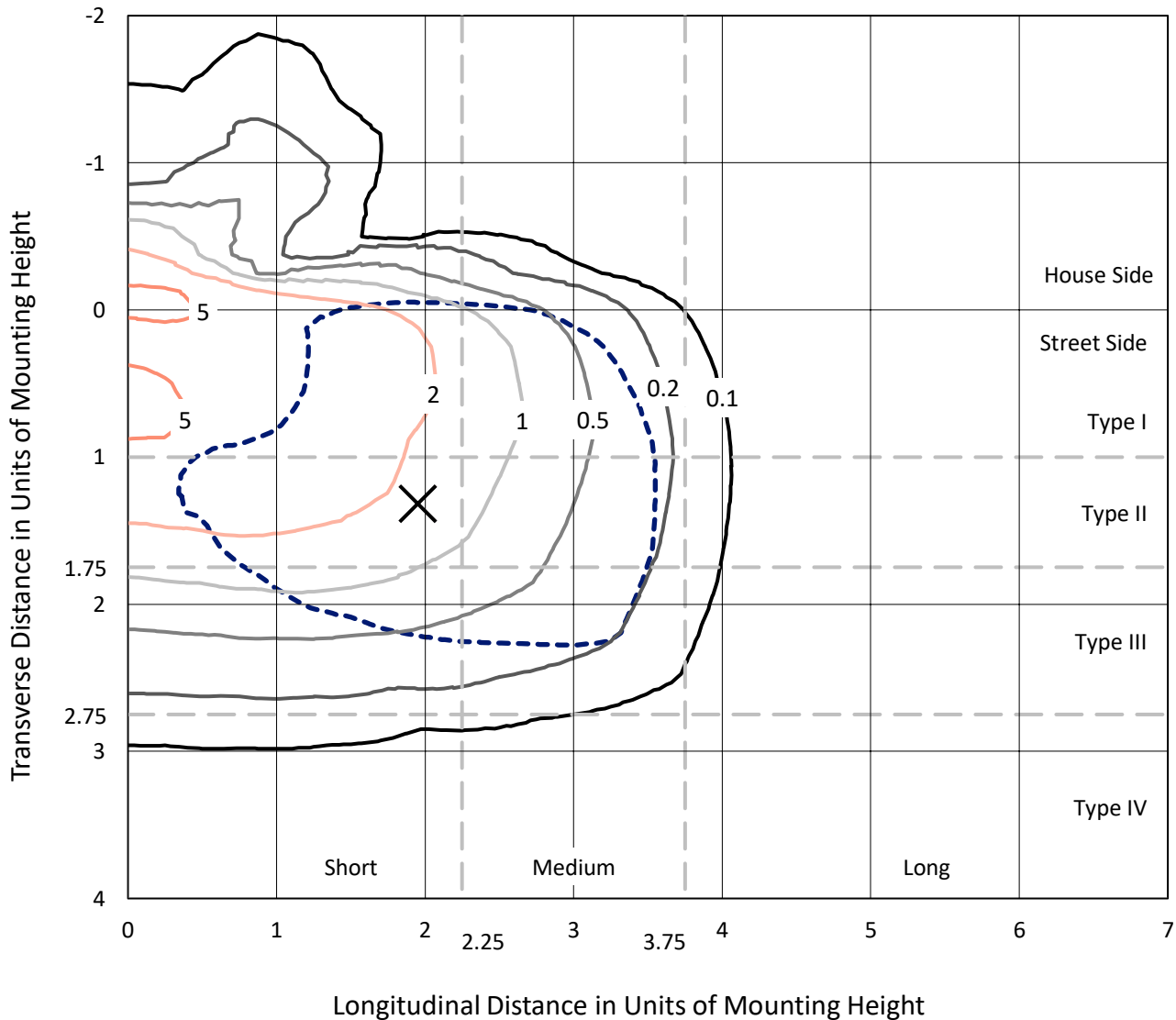
Lumens per Lamp: N/A
Luminaire Lumens: 13989.2 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
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

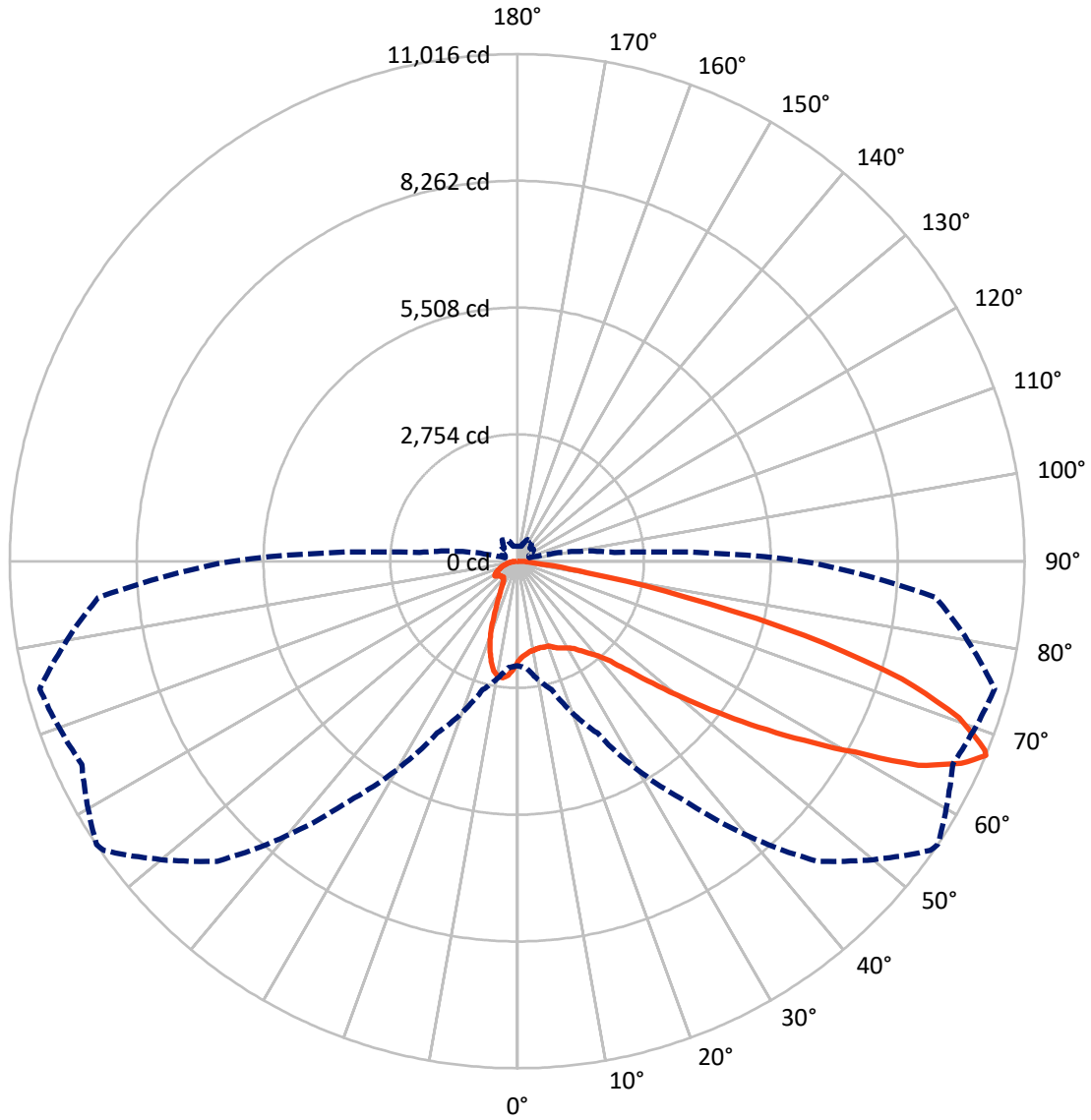
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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	2214.6	0.0	2214.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11774.6	0.0	11774.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	13989.2	0.0	13989.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.5
10°-20°	572.1	4.1
20°-30°	897.2	6.4
30°-40°	1280.7	9.2
40°-50°	1933.0	13.8
50°-60°	3077.0	22.0
60°-70°	3933.7	28.1
70°-80°	1918.0	13.7
80°-90°	167.8	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°	13989.2	100.0
0°-180°	13989.2	100.0

Coefficient of Utilization

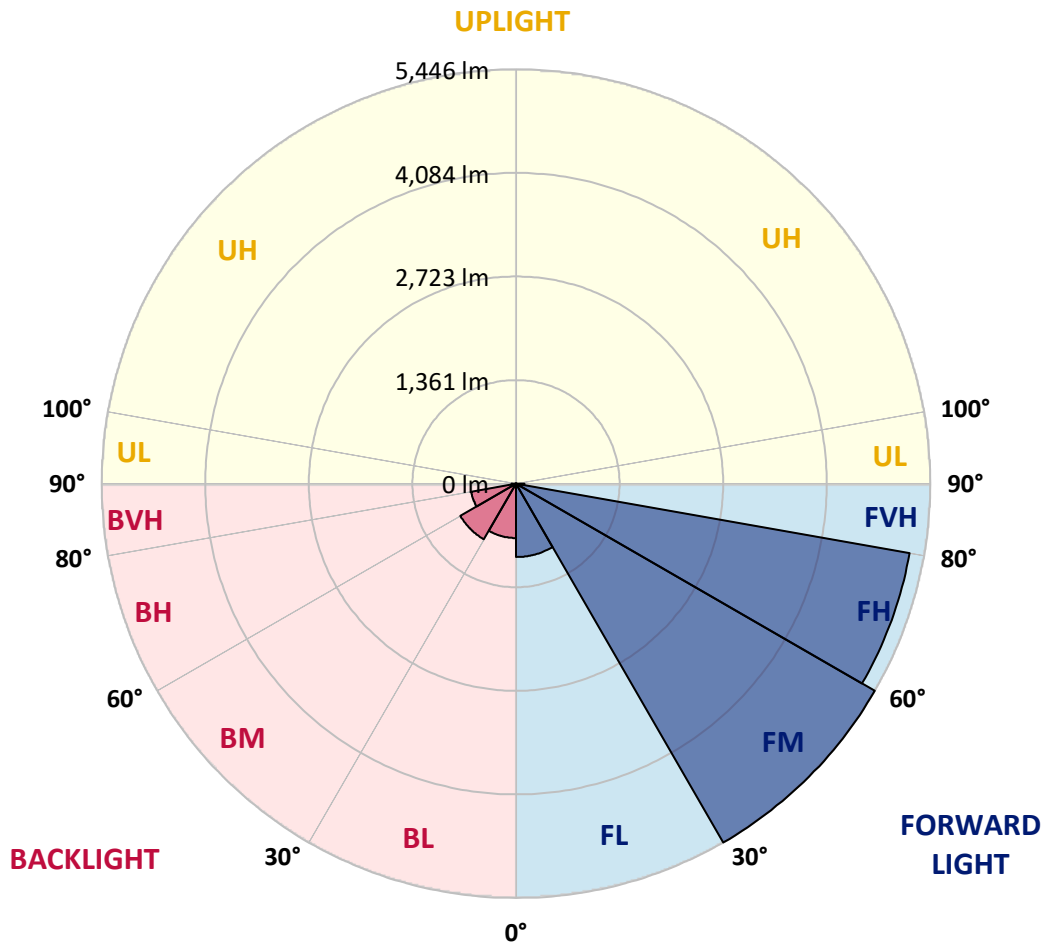


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.0	6.9			
FM (30°-60°)	5445.9	38.9			
FH (60°-80°)	5253.3	37.6			G3/7500
FVH (80°-90°)	111.4	0.8			G2/225
BL (0°-30°)	714.9	5.1	B2/1000		
BM (30°-60°)	844.9	6.0	B1/1000		
BH (60°-80°)	598.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	56.4	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°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2.5°	1999.5	1991.3	2001.2	1991.3	2035.6	2061.9	2070.1	2081.5	2122.6	2161.9
5°	1915.9	1879.8	1919.2	1932.3	1935.6	1979.9	2025.8	2034.0	2055.3	2119.3
7.5°	1776.5	1817.5	1802.7	1842.1	1883.1	1927.4	2002.8	1981.5	2060.2	2120.9
10°	1746.9	1750.2	1766.6	1781.4	1817.5	1874.9	1979.9	1966.7	2047.1	2176.7
12.5°	1776.5	1776.5	1771.5	1760.0	1801.1	1856.8	1940.5	1947.0	2073.3	2193.1
15°	1879.8	1899.5	1847.0	1855.2	1838.8	1856.8	1930.6	1945.4	2083.2	2206.2
17.5°	2132.4	2125.8	2063.5	1976.6	1904.4	1892.9	1943.8	1960.2	2073.3	2243.9
20°	2378.4	2365.3	2257.1	2166.8	2024.1	1956.9	1965.1	1966.7	2089.8	2268.5
22.5°	2652.4	2686.8	2568.7	2385.0	2207.9	2040.5	2007.7	2034.0	2127.5	2281.7
25°	3082.1	3008.3	2906.6	2665.5	2380.1	2170.1	2078.3	2091.4	2163.6	2314.5
27.5°	3392.2	3362.6	3203.5	3008.3	2621.2	2271.8	2116.0	2140.6	2229.2	2312.8
30°	3690.7	3690.7	3593.9	3301.9	2875.5	2442.4	2196.4	2184.9	2198.0	2309.6
32.5°	4040.1	3992.5	3853.1	3659.5	3195.3	2598.2	2260.3	2263.6	2263.6	2370.2
35°	4223.8	4300.9	4207.4	3892.4	3439.7	2857.4	2414.5	2389.9	2371.9	2437.5
37.5°	4492.8	4538.7	4440.3	4255.0	3743.2	3067.4	2550.7	2531.0	2426.0	2490.0
40°	4655.2	4647.0	4643.7	4558.4	4145.1	3315.1	2750.8	2699.9	2558.9	2675.3
42.5°	4747.0	4730.6	4932.4	4879.9	4524.0	3679.2	3001.8	2973.9	2818.0	3005.0
45°	4850.4	4971.8	5137.4	5285.1	4965.2	4191.0	3426.6	3387.2	3247.8	3485.7
47.5°	4940.6	5089.9	5301.5	5458.9	5363.8	4747.0	3951.5	3961.3	3869.5	4113.9
50°	5091.5	5106.3	5393.3	5711.5	5785.4	5260.5	4656.8	4640.4	4599.4	4942.2
52.5°	5045.6	5089.9	5452.4	5859.2	5980.6	5803.4	5414.7	5463.9	5409.7	5841.1
55°	4297.6	4430.5	5416.3	6015.0	6443.1	6416.9	6389.0	6356.2	6352.9	6851.6
57.5°	3958.1	4066.3	4771.7	6187.2	6938.5	7132.1	7312.5	7348.6	7346.9	7948.9
60°	3735.0	3846.5	4510.8	6093.7	7360.1	8068.7	8414.8	8419.7	8409.9	9121.7
62.5°	3298.7	3406.9	4059.8	5582.0	7476.5	8933.1	9704.1	9768.0	9316.9	10132.2
65°	2773.8	2862.3	3438.1	4799.5	7166.5	9482.6	10673.5	10598.0	10081.3	10709.6
67°	2268.5	2327.6	2888.6	4120.5	6356.2	9218.5	10954.0	11016.3	10434.0	10734.2
67.5°	2124.2	2178.3	2708.1	3889.2	6047.8	9018.4	10963.8	10954.0	10440.6	10739.1
70°	1474.6	1497.6	1845.3	2675.3	4455.1	7619.2	10163.3	10186.3	10002.6	10156.8
72.5°	977.6	1012.1	1233.5	1686.2	2626.1	5544.2	8495.2	8741.2	8624.7	8327.8
75°	629.9	649.6	807.0	1003.9	1292.6	3157.6	6275.8	6439.8	6172.5	5150.6
77.5°	352.7	374.0	487.2	610.2	629.9	1313.9	3525.0	3728.4	3159.2	2188.2
80°	219.8	247.7	367.4	362.5	300.2	482.3	1453.3	1556.7	1263.0	752.9
82.5°	165.7	187.0	283.8	254.2	169.0	214.9	544.6	583.9	462.6	290.3
85°	113.2	142.7	205.0	157.5	88.6	103.3	216.5	232.9	211.6	141.1
87.5°	41.0	60.7	106.6	78.7	39.4	31.2	70.5	78.7	75.5	64.0
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°
2176.7	0°	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7	2176.7
2196.4	2.5°	2227.5	2250.5	2262.0	2329.2	2357.1	2352.2	2358.8	2368.6	2378.4	2391.6
2224.3	5°	2245.6	2316.1	2353.8	2432.6	2485.1	2462.1	2491.6	2483.4	2471.9	2470.3
2275.1	7.5°	2304.6	2394.8	2508.0	2529.4	2552.3	2494.9	2445.7	2378.4	2362.0	2304.6
2317.8	10°	2409.6	2483.4	2621.2	2629.4	2527.7	2380.1	2270.2	2130.8	2129.1	2045.5
2383.4	12.5°	2509.7	2593.3	2704.9	2657.3	2414.5	2212.8	2034.0	1881.4	1817.5	1774.8
2422.7	15°	2572.0	2709.8	2768.8	2563.8	2216.1	1943.8	1712.5	1548.5	1482.8	1451.7
2471.9	17.5°	2629.4	2821.3	2795.1	2399.8	1971.6	1666.6	1391.0	1248.3	1230.2	1207.3
2550.7	20°	2708.1	2862.3	2701.6	2186.5	1694.4	1309.0	1133.5	1064.6	1081.0	1090.8
2558.9	22.5°	2782.0	2883.7	2583.5	1953.6	1338.5	1036.7	949.7	964.5	989.1	1021.9
2578.6	25°	2814.8	2918.1	2424.4	1632.1	1018.6	872.6	853.0	877.6	918.6	920.2
2606.4	27.5°	2836.1	2893.5	2232.5	1318.8	805.4	762.7	792.3	810.3	815.2	834.9
2665.5	30°	2873.8	2842.7	1989.7	943.2	675.8	677.4	715.2	715.2	715.2	729.9
2724.6	32.5°	2939.4	2808.2	1705.9	688.9	582.3	634.8	625.0	621.7	615.1	597.1
2800.0	35°	2980.4	2714.7	1346.7	510.1	523.3	582.3	579.0	528.2	442.9	400.2
2991.9	37.5°	3065.7	2667.1	990.7	393.7	488.8	556.1	538.0	415.0	321.5	280.5
3229.8	40°	3249.4	2636.0	685.6	344.5	465.8	542.9	480.6	354.3	246.0	173.9
3597.2	42.5°	3474.2	2637.6	465.8	324.8	467.5	570.8	462.6	303.5	173.9	139.4
4087.6	45°	3776.0	2613.0	319.9	324.8	497.0	616.8	474.0	275.6	169.0	177.2
4702.8	47.5°	4100.8	2634.3	237.8	295.3	501.9	618.4	433.0	270.7	162.4	205.0
5372.0	50°	4479.7	2655.7	196.8	272.3	503.6	598.7	398.6	264.1	169.0	216.5
6139.7	52.5°	4870.1	2722.9	167.3	257.5	523.3	590.5	398.6	273.9	169.0	188.6
7117.3	55°	5452.4	2895.1	241.1	321.5	595.4	644.6	490.5	383.8	236.2	242.8
8053.9	57.5°	6095.4	3072.3	269.0	337.9	611.8	580.7	528.2	423.2	249.3	251.0
8782.2	60°	6518.6	3078.9	267.4	329.7	572.5	501.9	516.7	446.2	254.2	214.9
9233.3	62.5°	6687.5	2878.7	278.9	329.7	533.1	469.1	529.8	480.6	262.4	269.0
9361.2	65°	6495.6	2465.4	269.0	295.3	469.1	419.9	533.1	487.2	287.1	270.7
9131.6	67°	6195.4	2124.2	273.9	280.5	436.3	398.6	561.0	511.8	333.0	324.8
9011.8	67.5°	6110.1	2034.0	272.3	272.3	424.8	392.0	567.5	511.8	339.5	336.3
7953.8	70°	5385.1	1648.5	278.9	269.0	375.6	372.3	603.6	539.7	390.4	393.7
5842.8	72.5°	4099.1	1249.9	277.2	269.0	326.4	355.9	608.6	557.7	424.8	393.7
3272.4	75°	2329.2	748.0	244.4	234.6	257.5	310.0	569.2	531.5	413.4	352.7
1307.3	77.5°	962.9	385.5	224.7	211.6	213.2	252.6	474.0	495.4	393.7	300.2
436.3	80°	359.2	231.3	180.4	169.0	164.0	185.4	337.9	395.3	336.3	246.0
191.9	82.5°	187.0	144.3	123.0	123.0	111.5	118.1	182.1	262.4	254.2	169.0
77.1	85°	95.1	82.0	70.5	68.9	62.3	55.8	91.9	155.8	146.0	93.5
34.4	87.5°	50.8	45.9	29.5	27.9	23.0	14.8	16.4	31.2	50.8	41.0
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



180°
2176.7
2404.7
2485.1
2324.3
2042.2
1765.0
1445.1
1218.7
1079.3
1003.9
936.6
853.0
746.3
587.2
419.9
278.9
169.0
136.1
180.4
228.0
251.0
193.6
255.9
242.8
221.4
272.3
265.7
319.9
329.7
364.1
349.4
314.9
283.8
224.7
132.9
77.1
29.5
0.0

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