

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: P477396

Luminaire Tested: **IFLD-M-SA4A-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477396
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

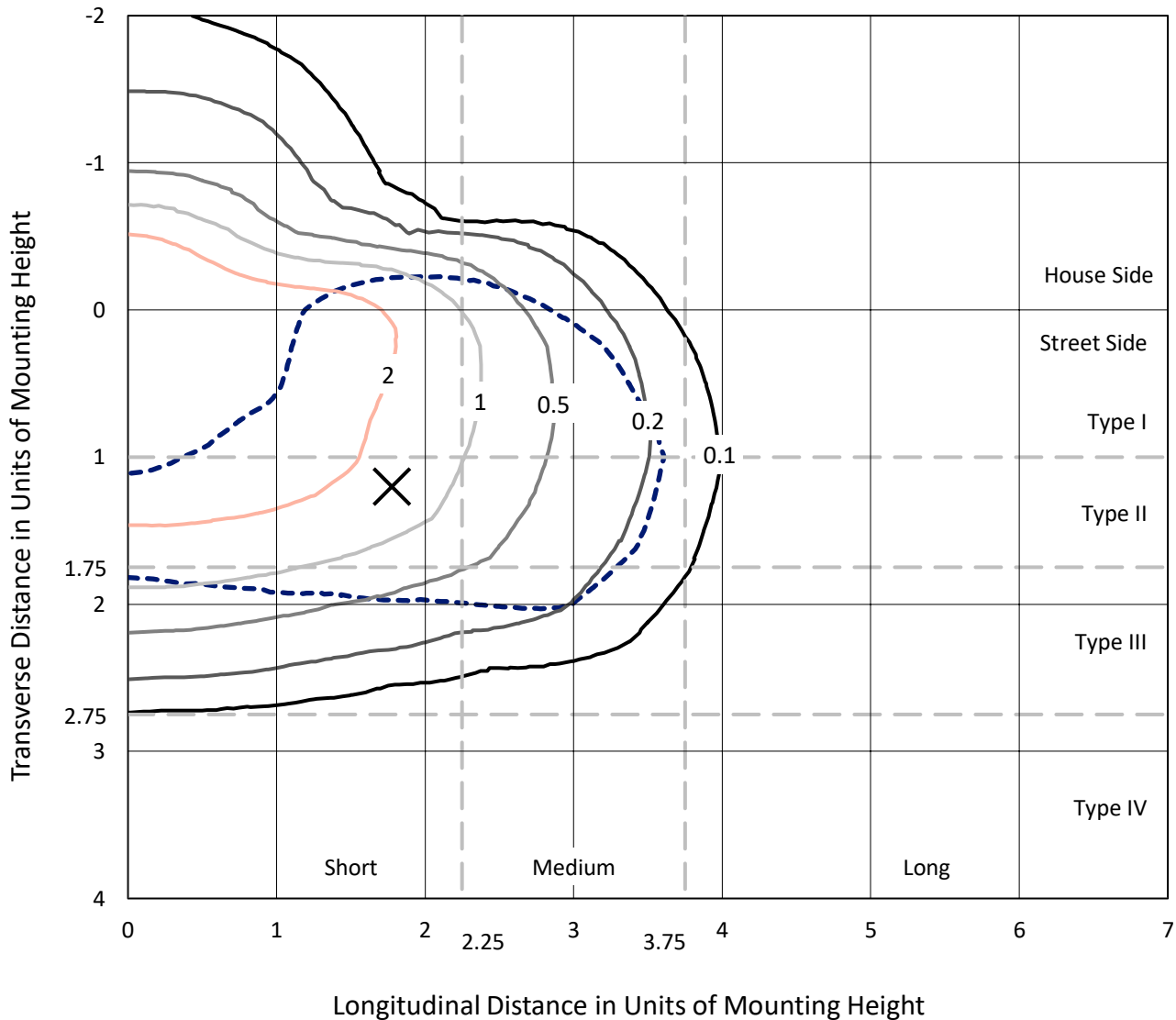
Lumens per Lamp: N/A
Luminaire Lumens: 18809.4 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6
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

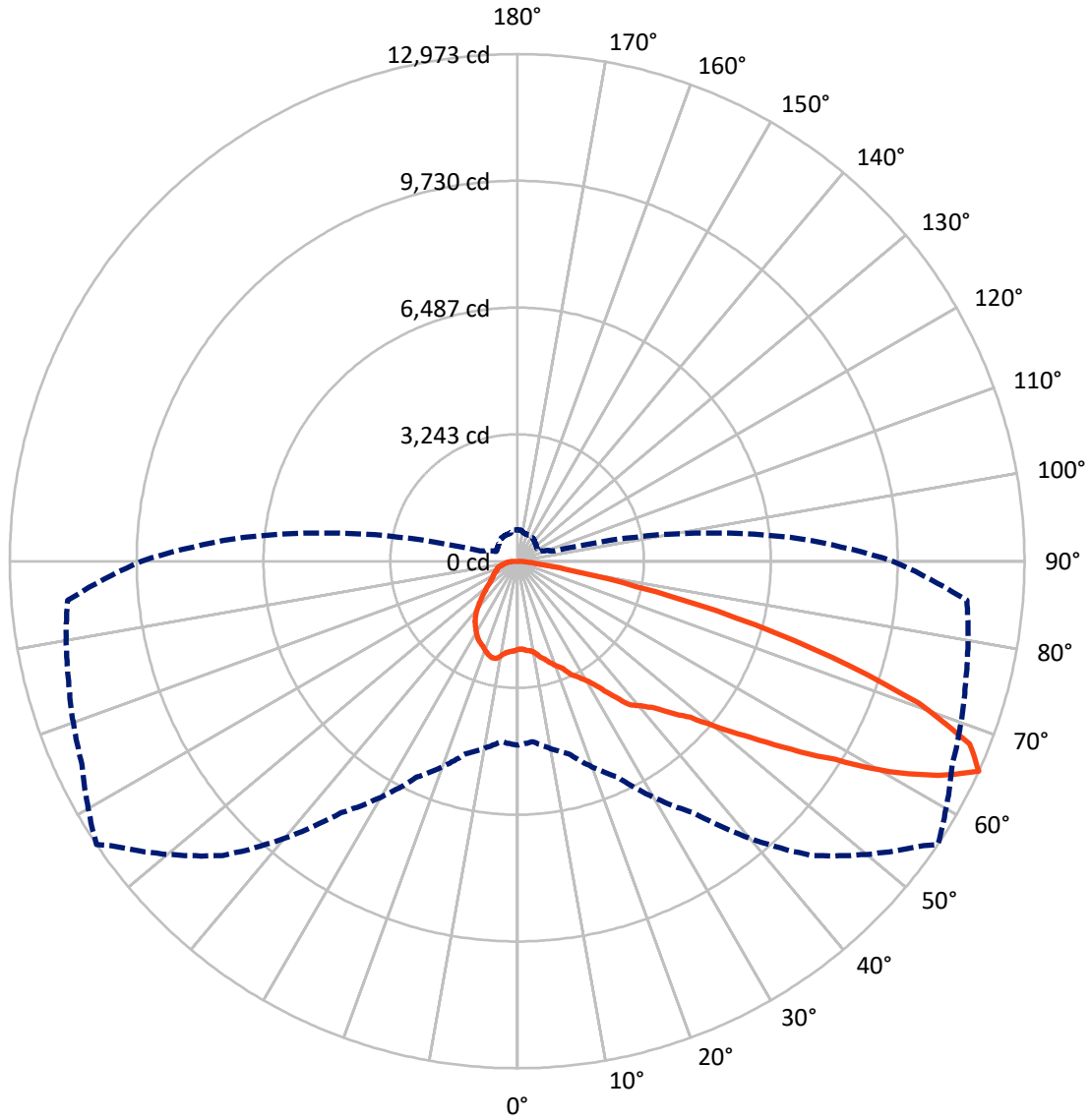
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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
House Side	Lumens	4218.3	0.0	4218.3
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	14591.0	0.0	14591.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	18809.4	0.0	18809.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	1.2
10°-20°	726.5	3.9
20°-30°	1293.5	6.9
30°-40°	1937.0	10.3
40°-50°	2869.9	15.3
50°-60°	4422.2	23.5
60°-70°	5006.4	26.6
70°-80°	2077.7	11.0
80°-90°	252.4	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°	18809.4	100.0
0°-180°	18809.4	100.0

Coefficient of Utilization



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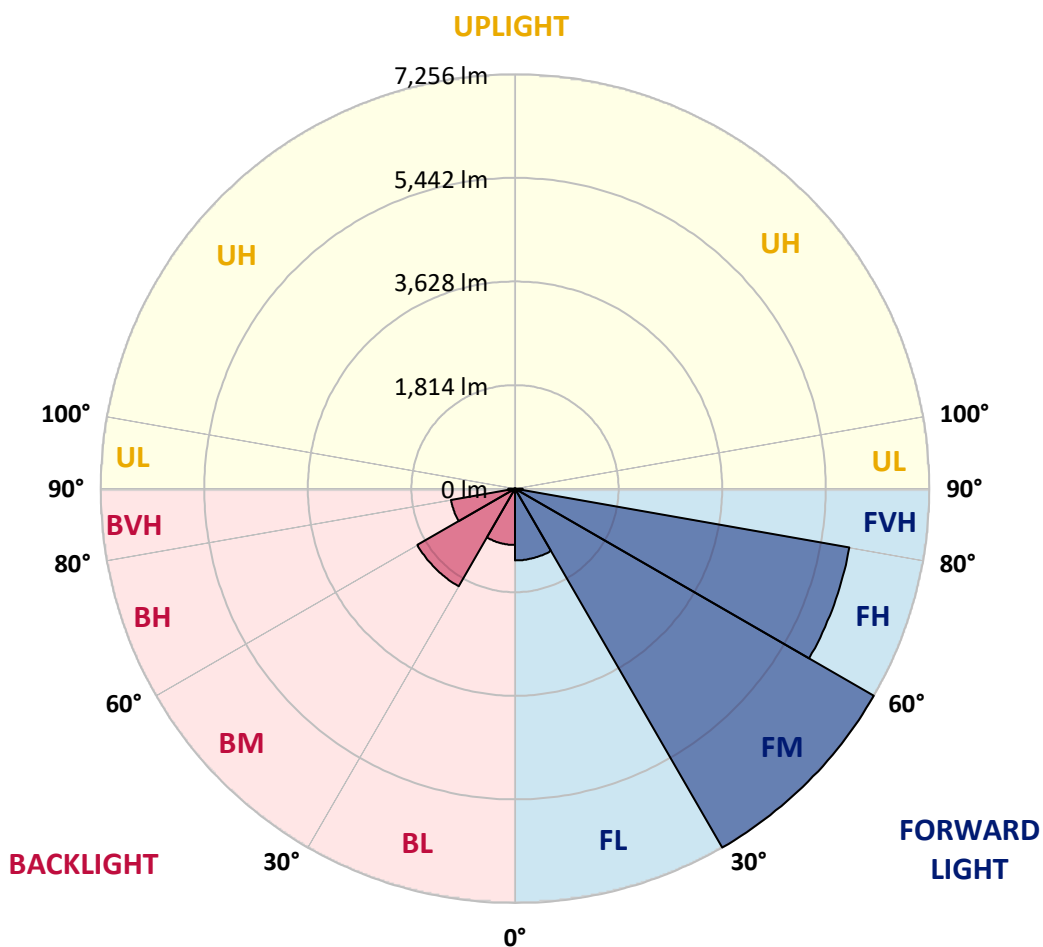
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.0	6.7			
FM (30°-60°)	7255.8	38.6			
FH (60°-80°)	5945.0	31.6			G3/7500
FVH (80°-90°)	133.1	0.7			G2/225
BL (0°-30°)	986.7	5.2	B2/1000		
BM (30°-60°)	1973.3	10.5	B2/2500		
BH (60°-80°)	1139.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	119.3	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°	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7
2.5°	2198.6	2210.4	2202.6	2226.2	2245.9	2245.9	2261.6	2249.8	2265.5	2287.2
5°	2271.4	2224.2	2249.8	2261.6	2255.7	2265.5	2249.8	2289.2	2263.6	2304.9
7.5°	2289.2	2306.9	2328.5	2308.8	2326.6	2316.7	2318.7	2312.8	2299.0	2332.5
10°	2419.1	2393.5	2442.7	2413.2	2409.2	2405.3	2397.4	2367.9	2401.4	2403.3
12.5°	2568.7	2545.0	2543.1	2519.5	2550.9	2493.9	2505.7	2489.9	2495.8	2503.7
15°	2676.9	2667.1	2712.3	2684.8	2643.5	2617.9	2645.4	2602.1	2623.8	2619.8
17.5°	2891.5	2889.5	2856.0	2810.8	2787.1	2749.7	2743.8	2726.1	2741.9	2734.0
20°	3041.1	3062.7	3068.6	3015.5	2924.9	2883.6	2873.7	2860.0	2877.7	2871.8
22.5°	3269.4	3235.9	3261.5	3169.0	3135.5	3037.1	3001.7	2982.0	3066.6	3045.0
25°	3415.0	3450.5	3424.9	3393.4	3318.6	3196.6	3171.0	3214.3	3247.7	3224.1
27.5°	3743.7	3708.3	3684.7	3590.2	3541.0	3413.1	3383.5	3367.8	3375.7	3389.4
30°	3993.7	4013.4	3960.3	3893.3	3769.3	3639.4	3570.5	3556.8	3529.2	3505.6
32.5°	4350.0	4320.5	4289.0	4245.7	4139.4	3968.1	3901.2	3850.0	3767.4	3657.1
35°	4521.2	4605.9	4582.2	4466.1	4385.4	4320.5	4300.8	4222.0	4153.2	3979.9
37.5°	4806.6	4842.1	4808.6	4771.2	4733.8	4664.9	4641.3	4663.0	4527.1	4241.7
40°	4991.7	5066.5	5135.3	5031.0	5023.2	5036.9	4891.3	4865.7	4586.2	4436.6
42.5°	5369.6	5401.1	5414.8	5410.9	5456.2	5456.2	5178.7	5123.5	4924.7	4802.7
45°	5869.5	5895.1	5944.3	5979.8	5928.6	5954.2	5558.5	5536.9	5359.7	5336.1
47.5°	6302.6	6363.6	6473.8	6578.1	6645.0	6558.4	6125.4	5971.9	5926.6	6068.3
50°	6680.5	6607.7	6865.5	6971.8	7265.1	7408.8	6751.3	6690.3	6617.5	6889.1
52.5°	6717.9	6816.3	7180.4	7393.0	7997.3	8263.0	7519.0	7493.4	7404.8	7717.8
55°	6985.6	6973.8	7339.9	7800.5	8518.9	8965.7	8518.9	8503.1	8310.2	8607.5
57.5°	6940.3	7060.4	7349.7	7993.3	8989.3	9719.6	9678.2	9570.0	9300.3	9542.4
60°	6786.8	6818.3	7170.6	7987.4	9262.9	10493.1	10930.1	10951.7	10400.6	10593.5
62.5°	5916.8	5989.6	6436.4	7359.5	9068.1	11026.5	12152.4	12075.6	11634.7	11414.3
65°	4706.3	4633.4	5097.9	6095.9	7855.6	10648.6	12687.8	12973.2	12280.4	11876.8
67.5°	2885.6	2867.8	3314.7	4194.5	5877.4	9062.1	12260.7	12483.1	12101.2	11778.4
70°	1486.1	1440.8	1720.3	2340.3	3694.5	6649.0	10670.3	10888.7	11252.9	10564.0
72.5°	692.8	683.0	832.6	1151.5	1881.7	3909.1	8263.0	8420.5	9188.1	8906.6
75°	407.4	413.3	498.0	602.3	917.2	1842.3	5483.7	5788.8	6621.4	6418.7
77.5°	305.1	305.1	354.3	419.3	535.4	712.5	2706.4	3109.9	3871.7	3482.0
80°	224.4	228.3	271.6	314.9	372.0	368.1	1074.7	1259.7	1775.4	1517.6
82.5°	175.2	181.1	210.6	234.2	261.8	222.4	440.9	474.4	730.2	580.7
85°	122.0	126.0	165.3	159.4	159.4	124.0	183.1	192.9	289.3	275.6
87.5°	29.5	33.5	80.7	88.6	66.9	37.4	57.1	65.0	104.3	120.1
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°
2257.7	0°	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7	2257.7
2297.0	2.5°	2267.5	2275.4	2308.8	2291.1	2301.0	2259.6	2293.1	2265.5	2289.2	2277.3
2314.7	5°	2330.5	2312.8	2332.5	2318.7	2318.7	2334.4	2358.0	2340.3	2375.8	2360.0
2328.5	7.5°	2356.1	2358.0	2369.9	2371.8	2362.0	2411.2	2413.2	2407.3	2440.7	2432.8
2423.0	10°	2419.1	2421.0	2442.7	2454.5	2444.7	2462.4	2442.7	2426.9	2425.0	2417.1
2497.8	12.5°	2519.5	2539.1	2535.2	2545.0	2547.0	2472.2	2426.9	2350.2	2340.3	2350.2
2608.0	15°	2612.0	2604.1	2608.0	2627.7	2545.0	2425.0	2344.3	2279.3	2283.3	2285.2
2751.7	17.5°	2722.2	2728.1	2734.0	2643.5	2491.9	2350.2	2279.3	2279.3	2259.6	2267.5
2852.1	20°	2848.2	2824.5	2773.4	2645.4	2399.4	2263.6	2241.9	2241.9	2218.3	2202.6
2960.4	22.5°	2946.6	2899.3	2822.6	2584.4	2316.7	2230.1	2177.0	2139.6	2112.0	2080.5
3080.4	25°	3009.6	2984.0	2834.4	2521.4	2255.7	2141.5	2062.8	2005.7	1970.3	1929.0
3174.9	27.5°	3106.0	3056.8	2867.8	2448.6	2188.8	2053.0	1930.9	1842.3	1775.4	1732.1
3318.6	30°	3235.9	3165.1	2844.2	2344.3	2086.4	1899.4	1755.7	1641.6	1564.8	1529.4
3454.4	32.5°	3342.2	3249.7	2824.5	2249.8	1972.3	1743.9	1553.0	1436.9	1393.6	1348.3
3682.7	35°	3544.9	3361.9	2810.8	2196.6	1869.9	1588.4	1387.7	1287.3	1232.2	1165.2
3818.5	37.5°	3700.4	3556.8	2777.3	2086.4	1738.0	1436.9	1261.7	1171.2	1088.5	1017.6
4133.5	40°	3944.5	3828.4	2779.3	1930.9	1582.5	1307.0	1163.3	1068.8	964.5	903.5
4600.0	42.5°	4403.1	4096.1	2791.1	1806.9	1407.3	1200.7	1074.7	962.5	858.2	807.0
5131.4	45°	4966.1	4464.2	2718.3	1694.7	1228.2	1100.3	968.4	856.2	789.3	751.9
5853.8	47.5°	5613.6	4824.4	2619.8	1484.1	1078.6	994.0	870.0	805.0	755.8	734.2
6784.8	50°	6338.0	5340.1	2592.3	1291.2	962.5	903.5	822.8	773.5	740.1	714.5
7833.9	52.5°	7271.0	5940.4	2537.2	1092.4	862.1	830.6	805.0	771.6	742.1	720.4
8812.2	55°	8162.6	6605.7	2478.1	929.0	791.3	795.2	809.0	779.5	753.9	720.4
9908.5	57.5°	9166.5	7284.8	2259.6	809.0	738.1	777.5	805.0	771.6	746.0	720.4
11030.5	60°	9786.5	7666.6	1832.5	704.7	690.9	744.0	781.4	746.0	718.4	728.3
11546.2	62.5°	10038.4	7465.8	1381.8	639.7	657.4	698.8	744.0	730.2	710.6	748.0
11540.3	65°	9609.3	7003.3	988.1	584.6	612.1	653.5	710.6	726.3	732.2	805.0
10599.4	67.5°	8550.4	6097.9	726.3	539.3	564.9	625.9	734.2	759.8	755.8	846.4
8894.8	70°	6841.9	4769.2	566.9	501.9	547.2	647.6	767.6	767.6	740.1	846.4
6784.8	72.5°	4977.9	3361.9	488.1	458.6	501.9	594.4	763.7	761.7	726.3	773.5
4320.5	75°	3013.5	1956.5	431.1	415.3	431.1	509.8	730.2	718.4	669.2	665.3
2078.5	77.5°	1501.8	984.2	352.3	368.1	375.9	427.1	641.7	659.4	592.5	576.7
820.8	80°	633.8	429.1	293.3	316.9	316.9	360.2	533.4	545.2	492.1	462.6
324.8	82.5°	289.3	246.0	250.0	275.6	257.8	279.5	423.2	437.0	399.6	350.4
137.8	85°	122.0	139.8	190.9	216.5	190.9	181.1	291.3	307.1	259.8	216.5
59.0	87.5°	55.1	76.8	120.1	157.5	96.4	84.6	155.5	161.4	129.9	96.4
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>
2257.7
2255.7
2338.4
2421.0
2417.1
2354.1
2312.8
2269.5
2178.9
2062.8
1936.8
1751.8
1549.1
1346.3
1159.3
1019.6
909.4
810.9
759.8
730.2
718.4
718.4
718.4
718.4
720.4
738.1
805.0
852.3
828.7
746.0
657.4
566.9
452.7
342.5
218.5
90.5
0.0

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