

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: P477280

Luminaire Tested: **IFLD-M-SA4B-727-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477280
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

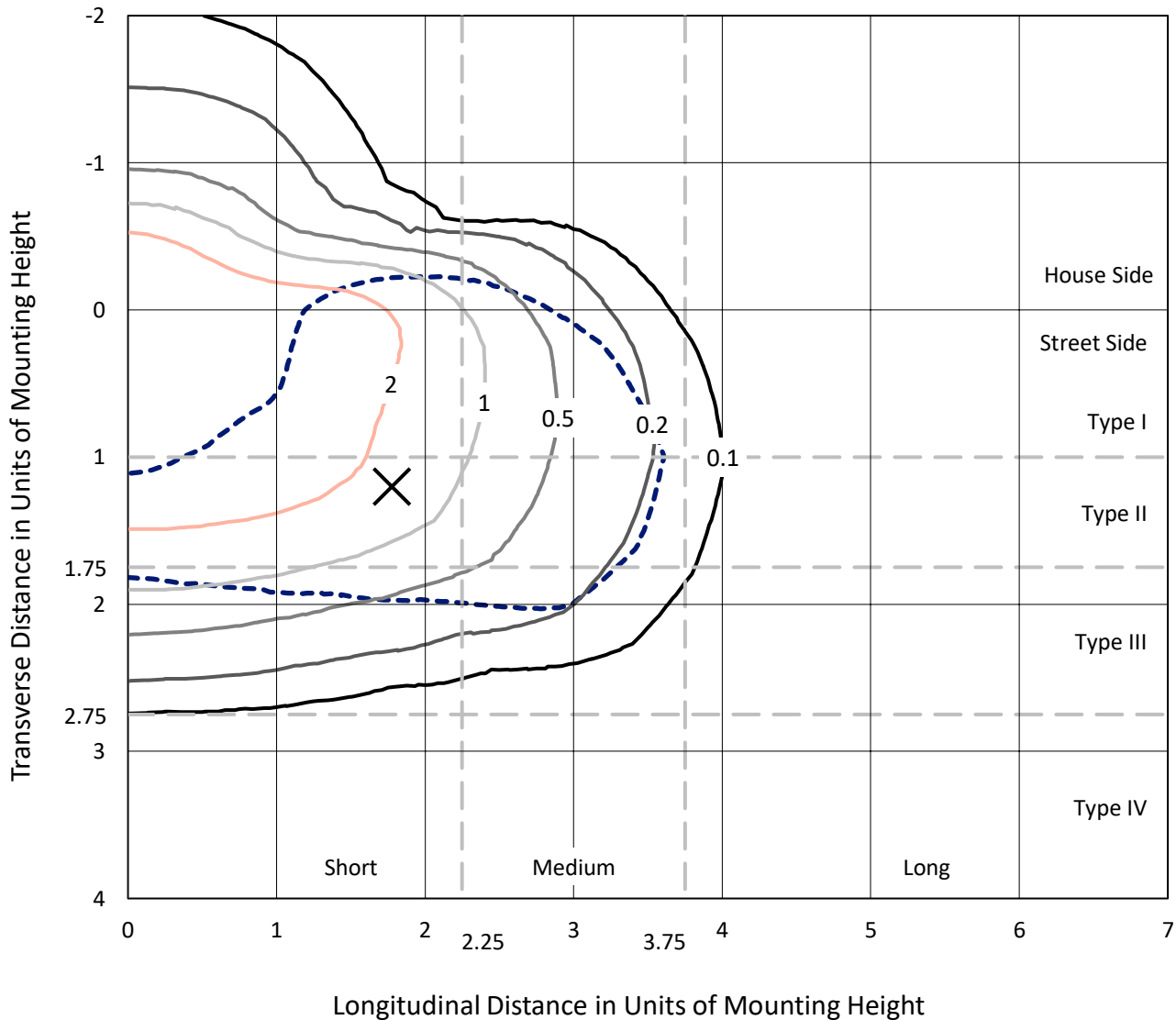
Lumens per Lamp: N/A
Luminaire Lumens: 19454.4 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

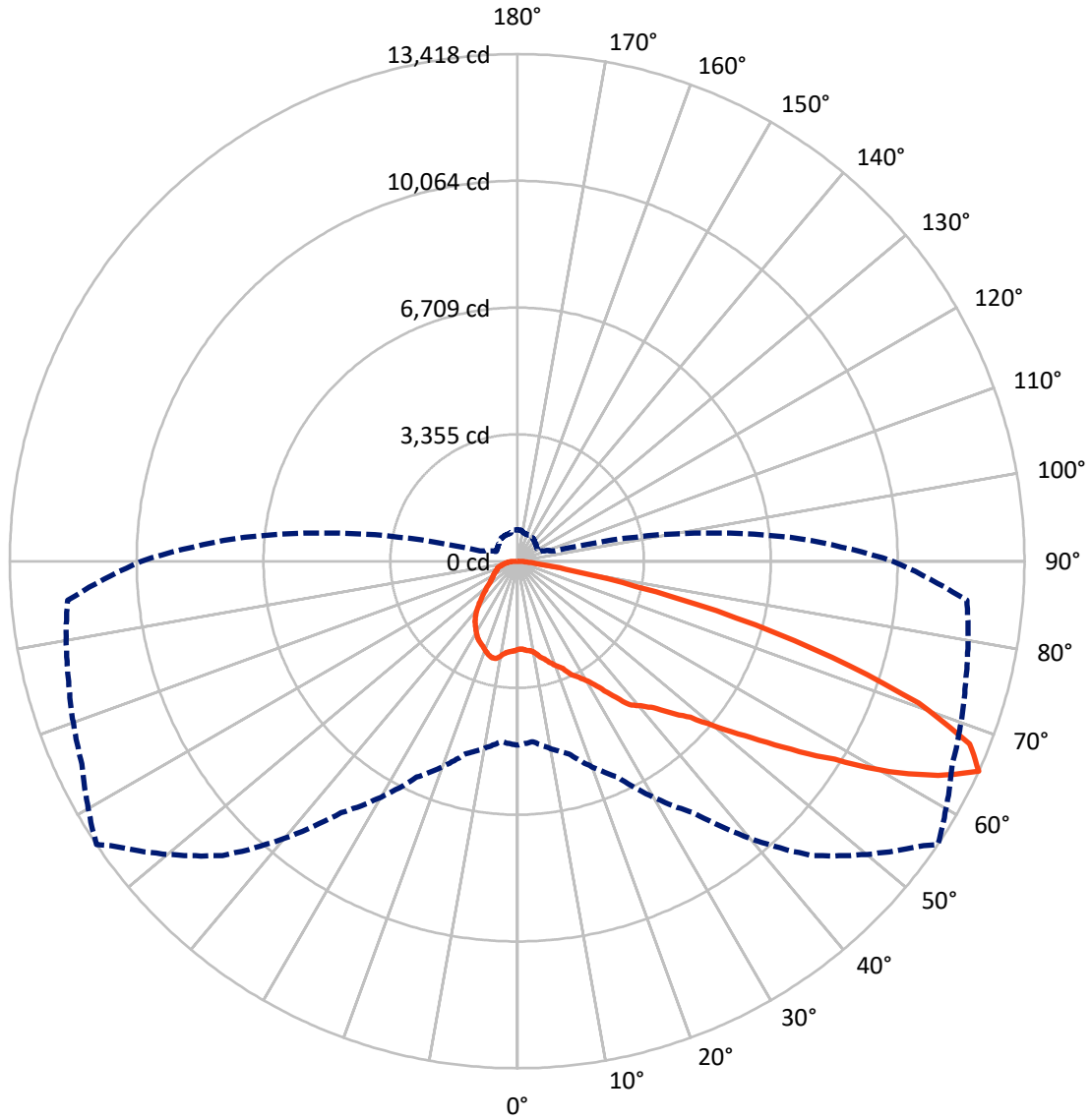
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	4363.0	0.0	4363.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15091.4	0.0	15091.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	19454.4	0.0	19454.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.2
10°-20°	751.4	3.9
20°-30°	1337.9	6.9
30°-40°	2003.4	10.3
40°-50°	2968.3	15.3
50°-60°	4573.8	23.5
60°-70°	5178.1	26.6
70°-80°	2149.0	11.0
80°-90°	261.1	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°	19454.4	100.0
0°-180°	19454.4	100.0

Coefficient of Utilization



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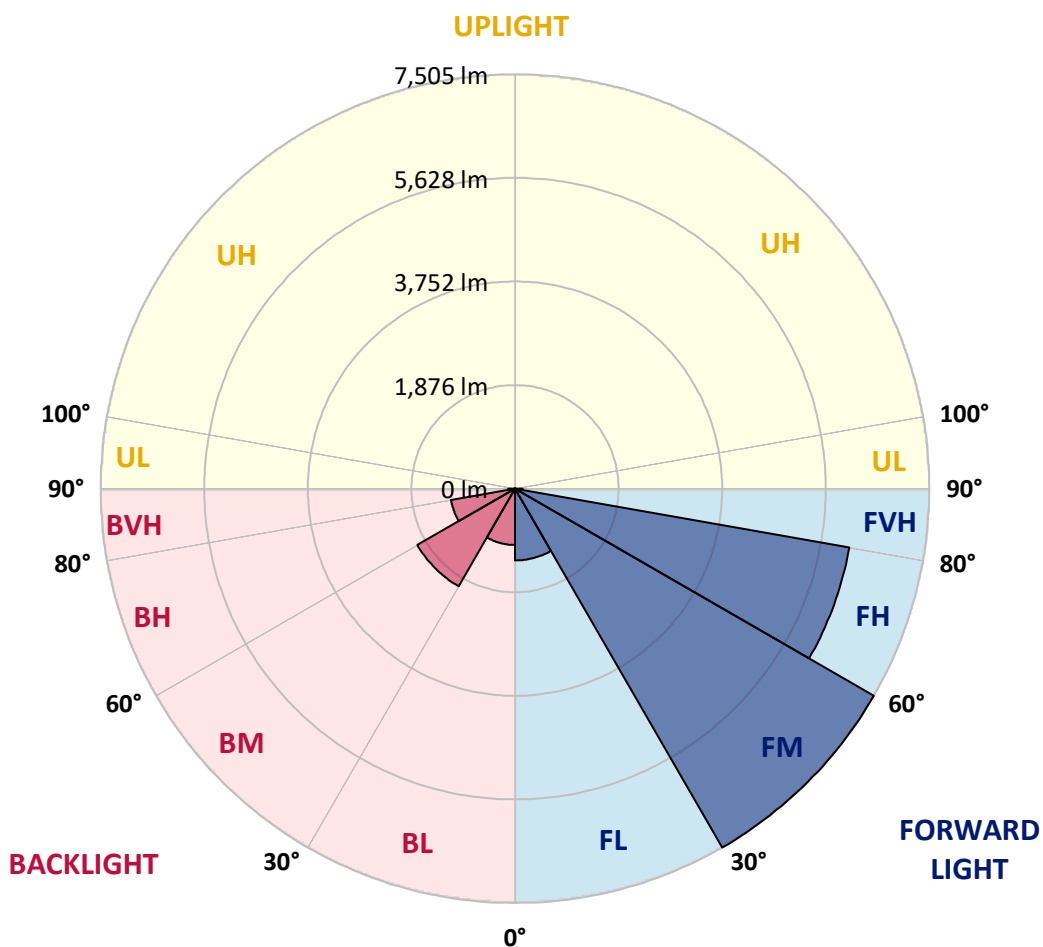
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.1	6.7			
FM (30°-60°)	7504.6	38.6			
FH (60°-80°)	6148.9	31.6			G3/7500
FVH (80°-90°)	137.7	0.7			G2/225
BL (0°-30°)	1020.5	5.2	B3/2500		
BM (30°-60°)	2040.9	10.5	B2/2500		
BH (60°-80°)	1178.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	123.4	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°	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1
2.5°	2274.0	2286.2	2278.1	2302.5	2322.9	2322.9	2339.2	2326.9	2343.2	2365.6
5°	2349.3	2300.5	2326.9	2339.2	2333.0	2343.2	2326.9	2367.7	2341.2	2383.9
7.5°	2367.7	2386.0	2408.4	2388.0	2406.3	2396.2	2398.2	2392.1	2377.8	2412.4
10°	2502.0	2475.6	2526.4	2495.9	2491.8	2487.8	2479.6	2449.1	2483.7	2485.7
12.5°	2656.7	2632.3	2630.3	2605.8	2638.4	2579.4	2591.6	2575.3	2581.4	2589.6
15°	2768.7	2758.5	2805.4	2776.9	2734.1	2707.6	2736.1	2691.3	2713.7	2709.7
17.5°	2990.6	2988.6	2954.0	2907.1	2882.7	2844.0	2837.9	2819.6	2835.9	2827.7
20°	3145.3	3167.7	3173.8	3118.9	3025.2	2982.5	2972.3	2958.0	2976.4	2970.3
22.5°	3381.5	3346.9	3373.3	3277.7	3243.1	3141.3	3104.6	3084.3	3171.8	3149.4
25°	3532.1	3568.8	3542.3	3509.7	3432.4	3306.2	3279.7	3324.5	3359.1	3334.7
27.5°	3872.1	3835.5	3811.0	3713.3	3662.4	3530.1	3499.6	3483.3	3491.4	3505.7
30°	4130.7	4151.0	4096.1	4026.8	3898.6	3764.2	3693.0	3678.7	3650.2	3625.8
32.5°	4499.2	4468.6	4436.0	4391.3	4281.3	4104.2	4035.0	3982.1	3896.6	3782.5
35°	4676.3	4763.8	4739.4	4619.3	4535.8	4468.6	4448.3	4366.8	4295.6	4116.4
37.5°	4971.5	5008.1	4973.5	4934.8	4896.1	4824.9	4800.5	4822.8	4682.4	4387.2
40°	5162.8	5240.2	5311.4	5203.5	5195.4	5209.7	5059.0	5032.5	4743.5	4588.7
42.5°	5553.7	5586.3	5600.5	5596.5	5643.3	5643.3	5356.2	5299.2	5093.6	4967.4
45°	6070.8	6097.3	6148.2	6184.8	6131.9	6158.3	5749.1	5726.7	5543.5	5519.1
47.5°	6518.7	6581.8	6695.8	6803.7	6872.9	6783.3	6335.5	6176.7	6129.8	6276.4
50°	6909.6	6834.2	7100.9	7210.9	7514.2	7662.8	6982.8	6919.7	6844.4	7125.4
52.5°	6948.2	7050.0	7426.7	7646.5	8271.5	8546.4	7776.8	7750.4	7658.7	7982.4
55°	7225.1	7212.9	7591.6	8067.9	8811.0	9273.1	8811.0	8794.7	8595.2	8902.6
57.5°	7178.3	7302.5	7601.7	8267.4	9297.6	10052.9	10010.1	9898.1	9619.2	9869.6
60°	7019.5	7052.1	7416.5	8261.3	9580.5	10852.9	11304.9	11327.3	10757.2	10956.8
62.5°	6119.7	6195.0	6657.1	7611.9	9379.0	11404.6	12569.1	12489.7	12033.7	11805.7
65°	4867.6	4792.3	5272.8	6304.9	8124.9	11013.8	13122.9	13418.1	12701.5	12284.1
67.5°	2984.5	2966.2	3428.3	4338.3	6078.9	9372.9	12681.1	12911.1	12516.2	12182.3
70°	1537.0	1490.2	1779.3	2420.6	3821.2	6877.0	11036.2	11262.1	11638.8	10926.2
72.5°	716.6	706.4	861.2	1191.0	1946.2	4043.1	8546.4	8709.2	9503.2	9212.1
75°	421.4	427.5	515.1	623.0	948.7	1905.5	5671.8	5987.3	6848.5	6638.8
77.5°	315.6	315.6	366.4	433.6	553.7	737.0	2799.2	3216.6	4004.4	3601.4
80°	232.1	236.2	280.9	325.7	384.8	380.7	1111.6	1302.9	1836.3	1569.6
82.5°	181.2	187.3	217.8	242.3	270.8	230.0	456.0	490.6	755.3	600.6
85°	126.2	130.3	171.0	164.9	164.9	128.3	189.3	199.5	299.3	285.0
87.5°	30.5	34.6	83.5	91.6	69.2	38.7	59.0	67.2	107.9	124.2
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°
2335.1	0°	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1
2375.8	2.5°	2345.3	2353.4	2388.0	2369.7	2379.9	2337.1	2371.7	2343.2	2367.7	2355.4
2394.1	5°	2410.4	2392.1	2412.4	2398.2	2398.2	2414.5	2438.9	2420.6	2457.2	2440.9
2408.4	7.5°	2436.9	2438.9	2451.1	2453.2	2443.0	2493.9	2495.9	2489.8	2524.4	2516.3
2506.1	10°	2502.0	2504.1	2526.4	2538.7	2528.5	2546.8	2526.4	2510.2	2508.1	2500.0
2583.5	12.5°	2605.8	2626.2	2622.1	2632.3	2634.3	2557.0	2510.2	2430.8	2420.6	2430.8
2697.5	15°	2701.5	2693.4	2697.5	2717.8	2632.3	2508.1	2424.7	2357.5	2361.5	2363.6
2846.1	17.5°	2815.5	2821.6	2827.7	2734.1	2577.3	2430.8	2357.5	2357.5	2337.1	2345.3
2949.9	20°	2945.8	2921.4	2868.5	2736.1	2481.7	2341.2	2318.8	2318.8	2294.4	2278.1
3061.9	22.5°	3047.6	2998.8	2919.4	2673.0	2396.2	2306.6	2251.6	2212.9	2184.4	2151.9
3186.1	25°	3112.8	3086.3	2931.6	2607.9	2333.0	2215.0	2133.5	2074.5	2037.9	1995.1
3283.8	27.5°	3212.5	3161.6	2966.2	2532.6	2263.8	2123.4	1997.1	1905.5	1836.3	1791.5
3432.4	30°	3346.9	3273.6	2941.8	2424.7	2158.0	1964.6	1815.9	1697.9	1618.5	1581.8
3572.9	32.5°	3456.8	3361.1	2921.4	2326.9	2039.9	1803.7	1606.3	1486.1	1441.4	1394.5
3809.0	35°	3666.5	3477.2	2907.1	2272.0	1934.0	1642.9	1435.3	1331.4	1274.4	1205.2
3949.5	37.5°	3827.3	3678.7	2872.5	2158.0	1797.6	1486.1	1305.0	1211.3	1125.8	1052.5
4275.2	40°	4079.8	3959.7	2874.6	1997.1	1636.8	1351.8	1203.2	1105.4	997.5	934.4
4757.7	42.5°	4554.1	4236.5	2886.8	1868.9	1455.6	1241.8	1111.6	995.5	887.6	834.7
5307.4	45°	5136.4	4617.2	2811.5	1752.8	1270.3	1138.0	1001.6	885.6	816.4	777.7
6054.5	47.5°	5806.1	4989.8	2709.7	1535.0	1115.6	1028.1	899.8	832.6	781.8	759.4
7017.5	50°	6555.3	5523.2	2681.2	1335.5	995.5	934.4	851.0	800.1	765.5	739.0
8102.5	52.5°	7520.3	6144.1	2624.2	1129.9	891.7	859.1	832.6	798.0	767.5	745.1
9114.3	55°	8442.5	6832.2	2563.1	960.9	818.4	822.5	836.7	806.2	779.7	745.1
10248.3	57.5°	9480.8	7534.6	2337.1	836.7	763.4	804.1	832.6	798.0	771.6	745.1
11408.7	60°	10122.1	7929.5	1895.3	728.8	714.6	769.5	808.2	771.6	743.1	753.3
11942.1	62.5°	10382.7	7721.8	1429.1	661.6	680.0	722.7	769.5	755.3	734.9	773.6
11936.0	65°	9938.9	7243.4	1022.0	604.6	633.1	675.9	734.9	751.2	757.3	832.6
10962.9	67.5°	8843.6	6307.0	751.2	557.8	584.3	647.4	759.4	785.8	781.8	875.4
9199.9	70°	7076.5	4932.8	586.3	519.1	566.0	669.8	794.0	794.0	765.5	875.4
7017.5	72.5°	5148.6	3477.2	504.9	474.3	519.1	614.8	789.9	787.9	751.2	800.1
4468.6	75°	3116.8	2023.6	445.8	429.6	445.8	527.3	755.3	743.1	692.2	688.1
2149.8	77.5°	1553.3	1017.9	364.4	380.7	388.8	441.8	663.7	682.0	612.8	596.5
848.9	80°	655.5	443.8	303.3	327.8	327.8	372.6	551.7	563.9	509.0	478.4
335.9	82.5°	299.3	254.5	258.5	285.0	266.7	289.1	437.7	452.0	413.3	362.4
142.5	85°	126.2	144.5	197.5	223.9	197.5	187.3	301.3	317.6	268.7	223.9
61.1	87.5°	57.0	79.4	124.2	162.9	99.8	87.5	160.8	166.9	134.4	99.8
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>
2335.1
2333.0
2418.5
2504.1
2500.0
2434.8
2392.1
2347.3
2253.6
2133.5
2003.2
1811.9
1602.2
1392.5
1199.1
1054.6
940.5
838.8
785.8
755.3
743.1
743.1
743.1
743.1
745.1
763.4
832.6
881.5
857.1
771.6
680.0
586.3
468.2
354.2
226.0
93.6
0.0

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