

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: P477631

Luminaire Tested: **IFLD-M-SA4B-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477631
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

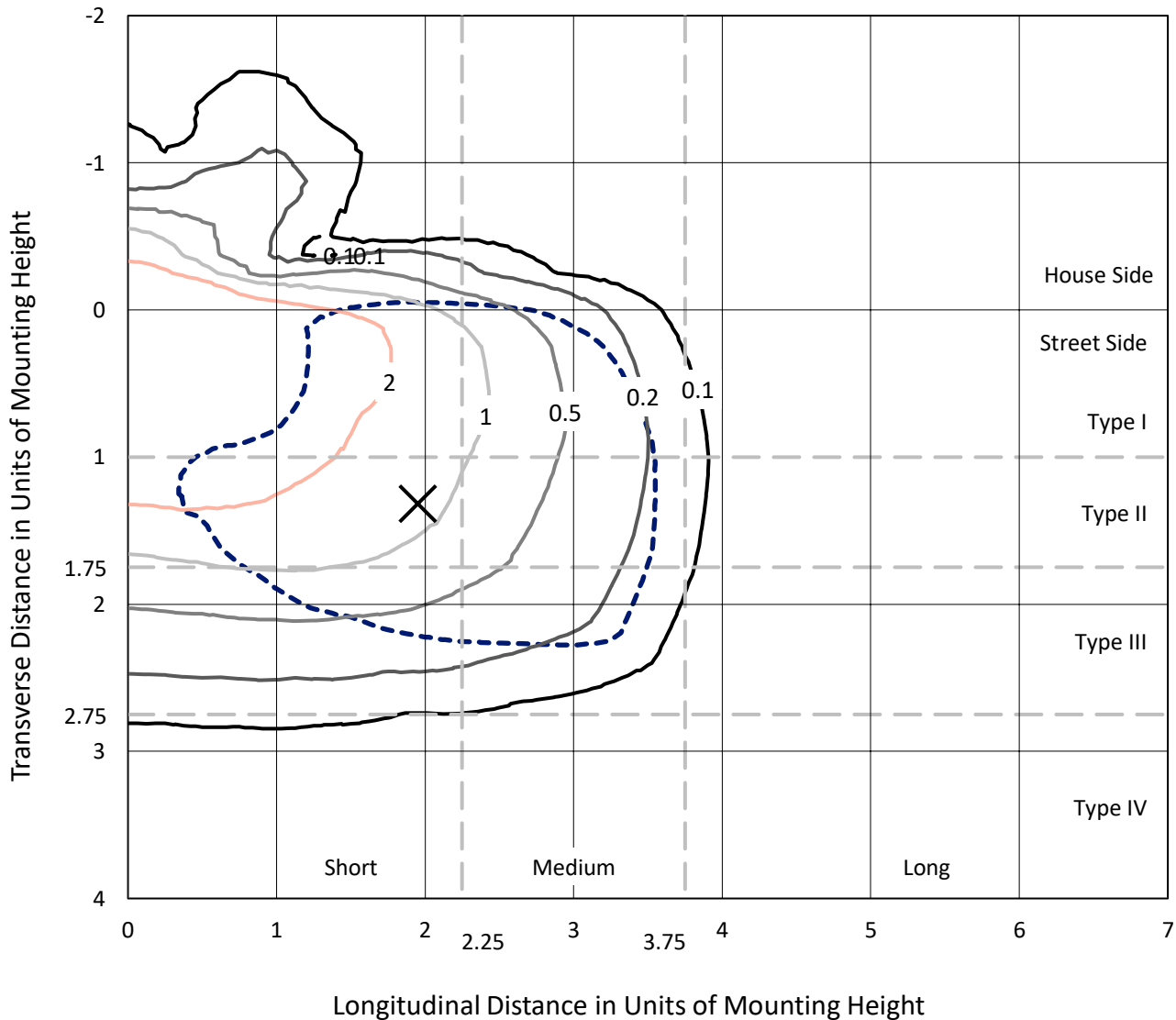
Lumens per Lamp: N/A
Luminaire Lumens: 16525.7 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

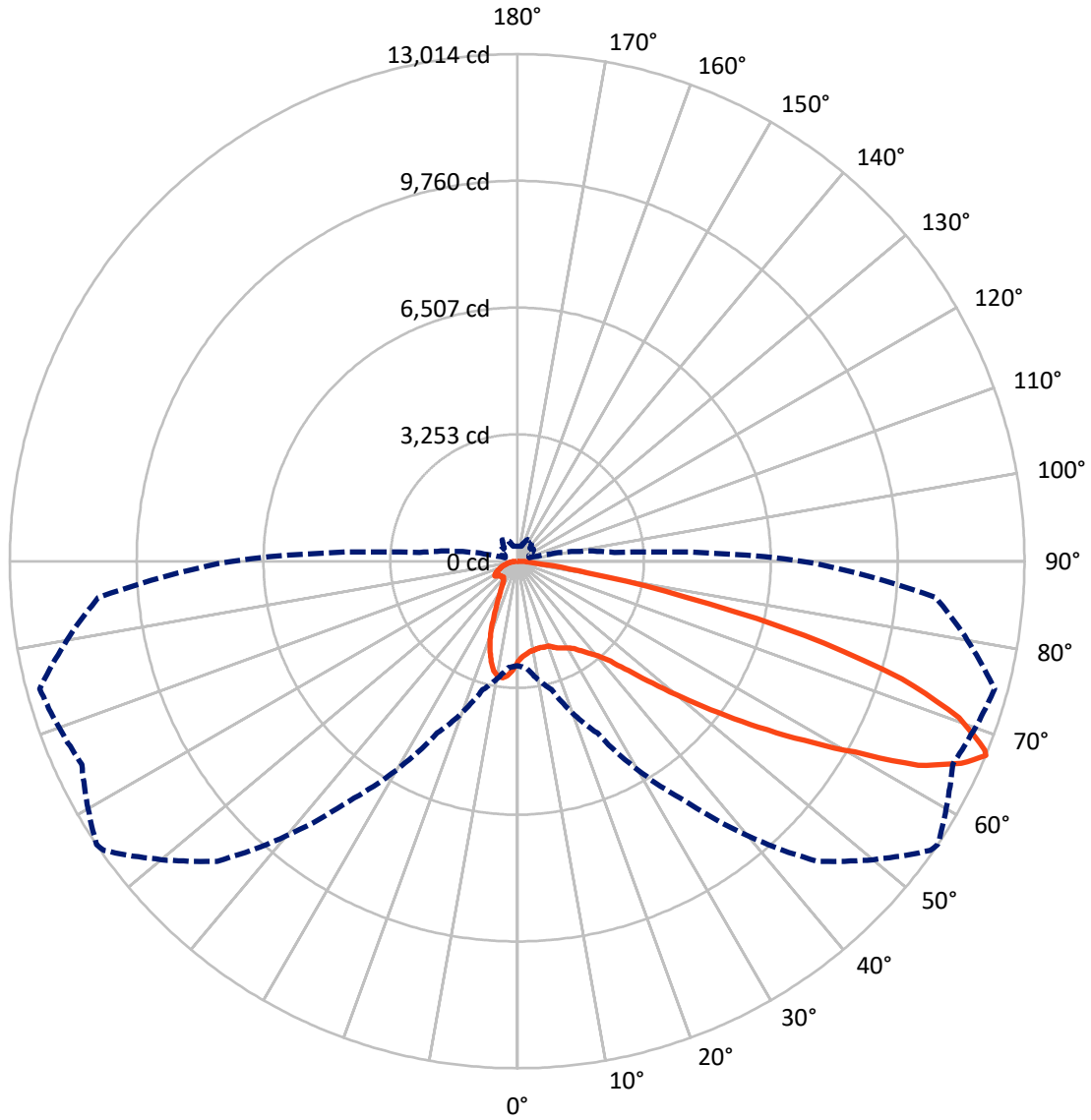
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2616.2	0.0	2616.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	13909.5	0.0	13909.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	16525.7	0.0	16525.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.7	1.5
10°-20°	675.8	4.1
20°-30°	1059.9	6.4
30°-40°	1513.0	9.2
40°-50°	2283.5	13.8
50°-60°	3634.9	22.0
60°-70°	4647.0	28.1
70°-80°	2265.7	13.7
80°-90°	198.2	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°	16525.7	100.0
0°-180°	16525.7	100.0

Coefficient of Utilization

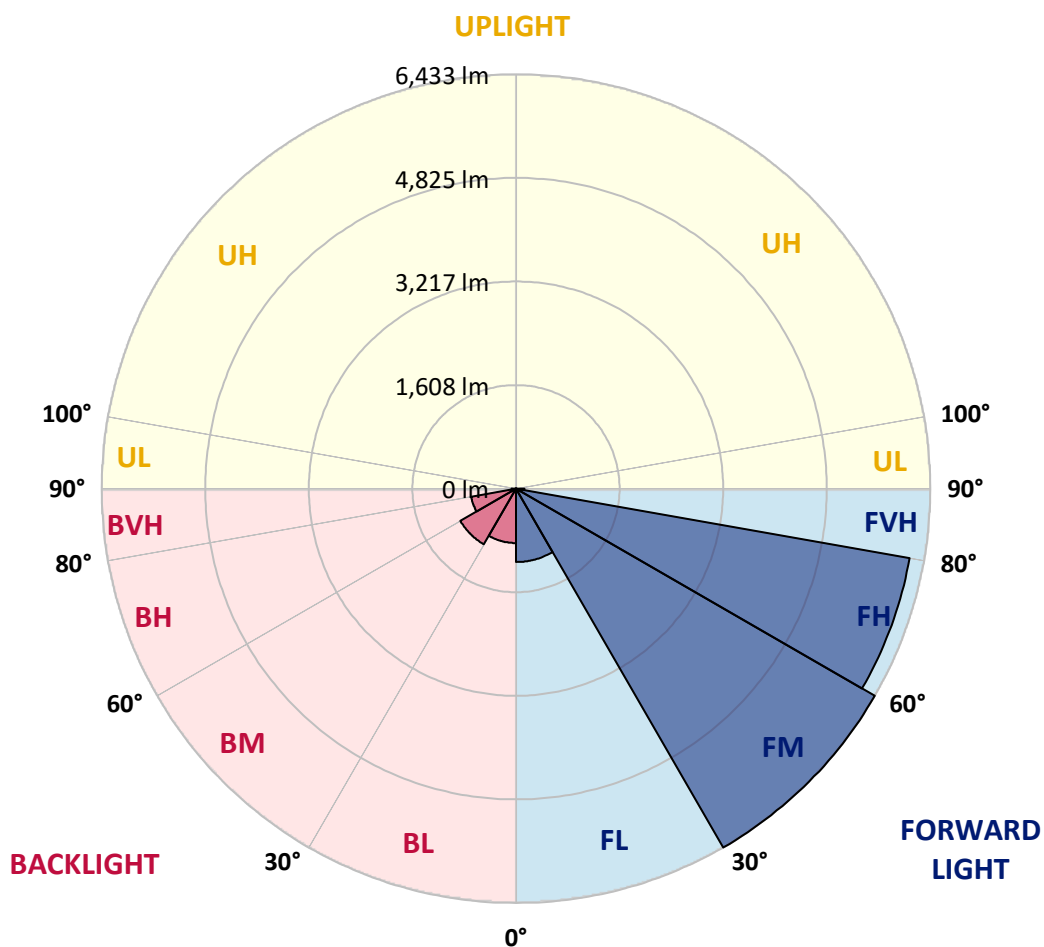


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.8	6.9			
FM (30°-60°)	6433.3	38.9			
FH (60°-80°)	6205.8	37.6			G3/7500
FVH (80°-90°)	131.6	0.8			G2/225
BL (0°-30°)	844.6	5.1	B2/1000		
BM (30°-60°)	998.1	6.0	B1/1000		
BH (60°-80°)	706.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	66.6	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4
2.5°	2362.1	2352.4	2364.0	2352.4	2404.7	2435.7	2445.4	2459.0	2507.4	2553.9
5°	2263.3	2220.6	2267.1	2282.6	2286.5	2338.8	2393.1	2402.8	2428.0	2503.5
7.5°	2098.6	2147.0	2129.6	2176.1	2224.5	2276.8	2366.0	2340.8	2433.8	2505.5
10°	2063.7	2067.5	2086.9	2104.4	2147.0	2214.8	2338.8	2323.3	2418.3	2571.4
12.5°	2098.6	2098.6	2092.7	2079.2	2127.6	2193.5	2292.3	2300.1	2449.3	2590.7
15°	2220.6	2243.9	2181.9	2191.6	2172.2	2193.5	2280.7	2298.1	2460.9	2606.2
17.5°	2519.0	2511.3	2437.7	2335.0	2249.7	2236.1	2296.2	2315.6	2449.3	2650.8
20°	2809.7	2794.2	2666.3	2559.7	2391.1	2311.7	2321.4	2323.3	2468.7	2679.9
22.5°	3133.3	3174.0	3034.5	2817.4	2608.2	2410.5	2371.8	2402.8	2513.2	2695.4
25°	3641.0	3553.8	3433.6	3148.8	2811.6	2563.6	2455.1	2470.6	2555.9	2734.1
27.5°	4007.2	3972.3	3784.4	3553.8	3096.5	2683.7	2499.7	2528.7	2633.4	2732.2
30°	4359.9	4359.9	4245.5	3900.6	3396.8	2885.3	2594.6	2581.0	2596.5	2728.3
32.5°	4772.6	4716.4	4551.7	4323.1	3774.7	3069.4	2670.2	2674.1	2674.1	2800.0
35°	4989.6	5080.7	4970.3	4598.2	4063.4	3375.5	2852.3	2823.3	2801.9	2879.5
37.5°	5307.4	5361.7	5245.4	5026.4	4421.9	3623.5	3013.2	2989.9	2865.9	2941.5
40°	5499.3	5489.6	5485.7	5384.9	4896.6	3916.1	3249.6	3189.5	3022.8	3160.4
42.5°	5607.8	5588.4	5826.7	5764.7	5344.2	4346.3	3546.0	3513.1	3329.0	3549.9
45°	5729.8	5873.2	6068.9	6243.3	5865.5	4950.9	4047.9	4001.4	3836.7	4117.7
47.5°	5836.4	6012.7	6262.7	6448.7	6336.3	5607.8	4668.0	4679.6	4571.1	4859.8
50°	6014.7	6032.1	6371.2	6747.1	6834.3	6214.3	5501.2	5481.8	5433.4	5838.4
52.5°	5960.4	6012.7	6441.0	6921.5	7064.9	6855.7	6396.4	6454.5	6390.6	6900.2
55°	5076.8	5233.8	6398.4	7105.6	7611.4	7580.4	7547.4	7508.7	7504.8	8093.9
57.5°	4675.7	4803.6	5636.8	7309.1	8196.6	8425.2	8638.4	8681.0	8679.1	9390.2
60°	4412.2	4544.0	5328.7	7198.6	8694.6	9531.7	9940.5	9946.3	9934.7	10775.7
62.5°	3896.8	4024.6	4795.9	6594.1	8832.1	10552.8	11463.6	11539.1	11006.3	11969.3
65°	3276.7	3381.3	4061.5	5669.8	8465.9	11202.0	12608.8	12519.6	11909.2	12651.4
67°	2679.9	2749.6	3412.3	4867.6	7508.7	10890.0	12940.1	13013.7	12325.8	12680.4
67.5°	2509.3	2573.3	3199.2	4594.3	7144.4	10653.6	12951.7	12940.1	12333.6	12686.3
70°	1742.0	1769.1	2179.9	3160.4	5262.9	9000.7	12006.1	12033.2	11816.2	11998.4
72.5°	1154.9	1195.6	1457.2	1992.0	3102.3	6549.5	10035.5	10326.1	10188.5	9837.8
75°	744.1	767.3	953.4	1185.9	1526.9	3730.1	7413.7	7607.5	7291.6	6084.4
77.5°	416.6	441.8	575.5	720.8	744.1	1552.1	4164.2	4404.4	3732.1	2584.9
80°	259.7	292.6	434.0	428.2	354.6	569.7	1716.8	1838.9	1492.0	889.4
82.5°	195.7	220.9	335.2	300.3	199.6	253.8	643.3	689.8	546.4	343.0
85°	133.7	168.6	242.2	186.0	104.6	122.1	255.8	275.2	250.0	166.6
87.5°	48.4	71.7	126.0	93.0	46.5	36.8	83.3	93.0	89.1	75.6
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°
2571.4	0°	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4	2571.4
2594.6	2.5°	2631.4	2658.6	2672.1	2751.6	2784.5	2778.7	2786.4	2798.1	2809.7	2825.2
2627.5	5°	2652.7	2736.1	2780.6	2873.6	2935.6	2908.5	2943.4	2933.7	2920.1	2918.2
2687.6	7.5°	2722.5	2829.1	2962.8	2988.0	3015.1	2947.3	2889.1	2809.7	2790.3	2722.5
2738.0	10°	2846.5	2933.7	3096.5	3106.2	2986.0	2811.6	2681.8	2517.1	2515.2	2416.3
2815.5	12.5°	2964.7	3063.5	3195.3	3139.1	2852.3	2614.0	2402.8	2222.6	2147.0	2096.6
2862.0	15°	3038.3	3201.1	3270.9	3028.7	2617.9	2296.2	2023.0	1829.2	1751.7	1714.9
2920.1	17.5°	3106.2	3332.9	3301.9	2834.9	2329.1	1968.7	1643.2	1474.6	1453.3	1426.2
3013.2	20°	3199.2	3381.3	3191.4	2583.0	2001.7	1546.3	1339.0	1257.6	1277.0	1288.6
3022.8	22.5°	3286.4	3406.5	3051.9	2307.8	1581.2	1224.6	1121.9	1139.4	1168.4	1207.2
3046.1	25°	3325.1	3447.2	2864.0	1928.0	1203.3	1030.9	1007.6	1036.7	1085.1	1087.1
3079.0	27.5°	3350.3	3418.1	2637.2	1557.9	951.4	901.0	935.9	957.2	963.0	986.3
3148.8	30°	3394.9	3358.1	2350.5	1114.2	798.3	800.3	844.8	844.8	844.8	862.3
3218.6	32.5°	3472.4	3317.4	2015.2	813.8	687.9	749.9	738.3	734.4	726.6	705.3
3307.7	35°	3520.8	3206.9	1590.9	602.6	618.1	687.9	684.0	623.9	523.2	472.8
3534.4	37.5°	3621.6	3150.7	1170.4	465.1	577.4	656.9	635.6	490.2	379.8	331.4
3815.4	40°	3838.6	3113.9	810.0	406.9	550.3	641.4	567.8	418.5	290.7	205.4
4249.4	42.5°	4104.1	3115.9	550.3	383.7	552.3	674.3	546.4	358.5	205.4	164.7
4828.8	45°	4460.6	3086.8	377.9	383.7	587.1	728.6	560.0	325.5	199.6	209.3
5555.4	47.5°	4844.3	3112.0	281.0	348.8	592.9	730.5	511.6	319.7	191.8	242.2
6346.0	50°	5291.9	3137.2	232.5	321.7	594.9	707.3	470.9	312.0	199.6	255.8
7252.9	52.5°	5753.1	3216.6	197.6	304.2	618.1	697.6	470.9	323.6	199.6	222.8
8407.8	55°	6441.0	3420.1	284.8	379.8	703.4	761.5	579.4	453.4	279.0	286.8
9514.2	57.5°	7200.6	3629.4	317.8	399.2	722.8	686.0	623.9	499.9	294.5	296.5
10374.6	60°	7700.5	3637.1	315.8	389.5	676.3	592.9	610.4	527.1	300.3	253.8
10907.4	62.5°	7900.1	3400.7	329.4	389.5	629.8	554.2	625.9	567.8	310.0	317.8
11058.6	65°	7673.4	2912.4	317.8	348.8	554.2	496.1	629.8	575.5	339.1	319.7
10787.3	67°	7318.8	2509.3	323.6	331.4	515.4	470.9	662.7	604.6	393.4	383.7
10645.8	67.5°	7218.0	2402.8	321.7	321.7	501.9	463.1	670.5	604.6	401.1	397.2
9396.0	70°	6361.5	1947.4	329.4	317.8	443.7	439.9	713.1	637.5	461.2	465.1
6902.2	72.5°	4842.4	1476.5	327.5	317.8	385.6	420.5	718.9	658.8	501.9	465.1
3865.8	75°	2751.6	883.6	288.7	277.1	304.2	366.2	672.4	627.8	488.3	416.6
1544.4	77.5°	1137.4	455.4	265.5	250.0	251.9	298.4	560.0	585.2	465.1	354.6
515.4	80°	424.4	273.2	213.1	199.6	193.8	219.0	399.2	467.0	397.2	290.7
226.7	82.5°	220.9	170.5	145.3	145.3	131.8	139.5	215.1	310.0	300.3	199.6
91.1	85°	112.4	96.9	83.3	81.4	73.6	65.9	108.5	184.1	172.5	110.5
40.7	87.5°	60.1	54.3	34.9	32.9	27.1	17.4	19.4	36.8	60.1	48.4
0.0	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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180°
2571.4
2840.7
2935.6
2745.8
2412.5
2085.0
1707.1
1439.7
1275.0
1185.9
1106.4
1007.6
881.7
693.7
496.1
329.4
199.6
160.8
213.1
269.3
296.5
228.7
302.3
286.8
261.6
321.7
313.9
377.9
389.5
430.2
412.7
372.0
335.2
265.5
157.0
91.1
34.9
0.0

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