

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: P477845

Luminaire Tested: **IFLD-S-SA3B-760-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477845
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-760-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

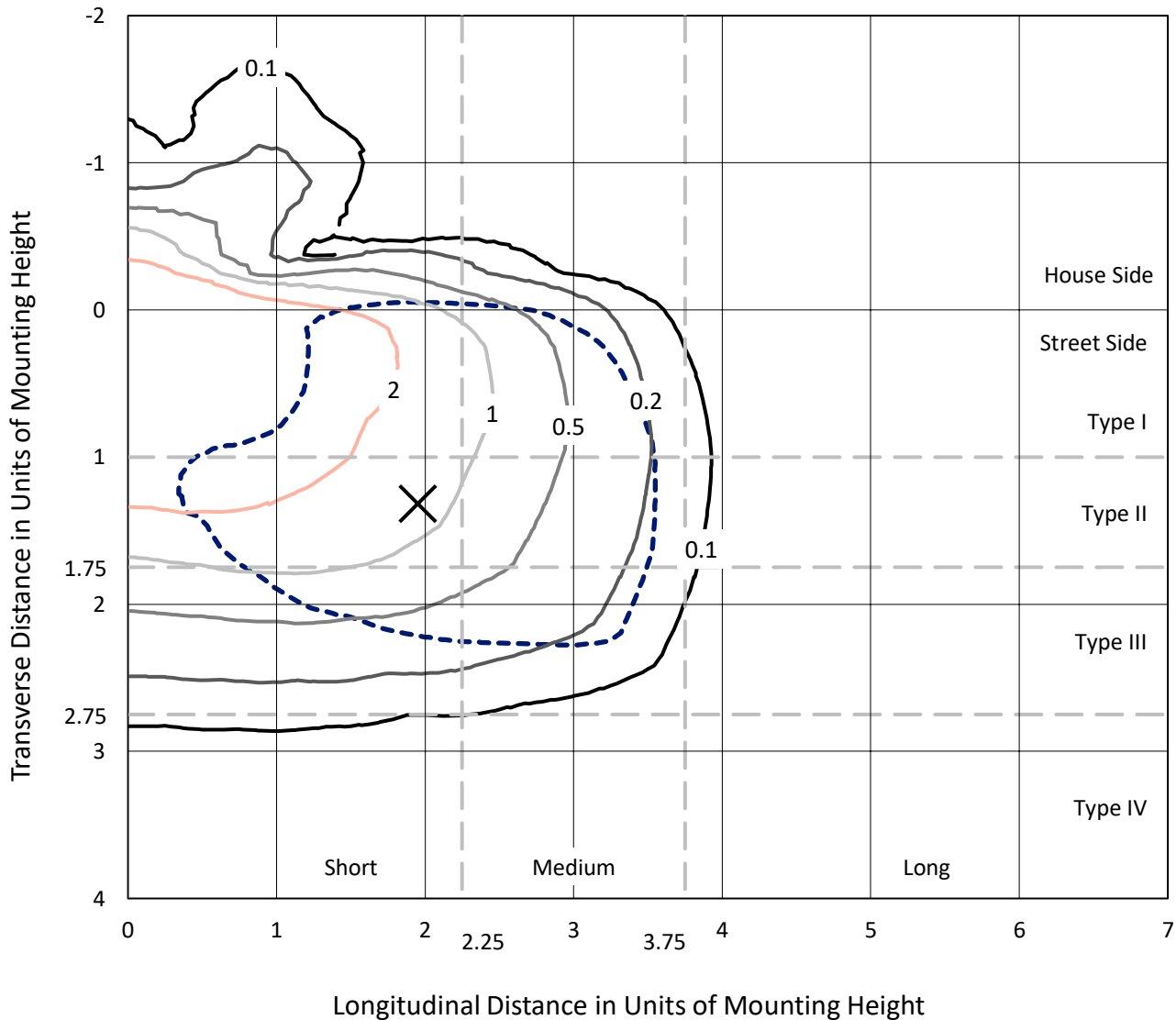
Lumens per Lamp: N/A
Luminaire Lumens: 17097.4 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

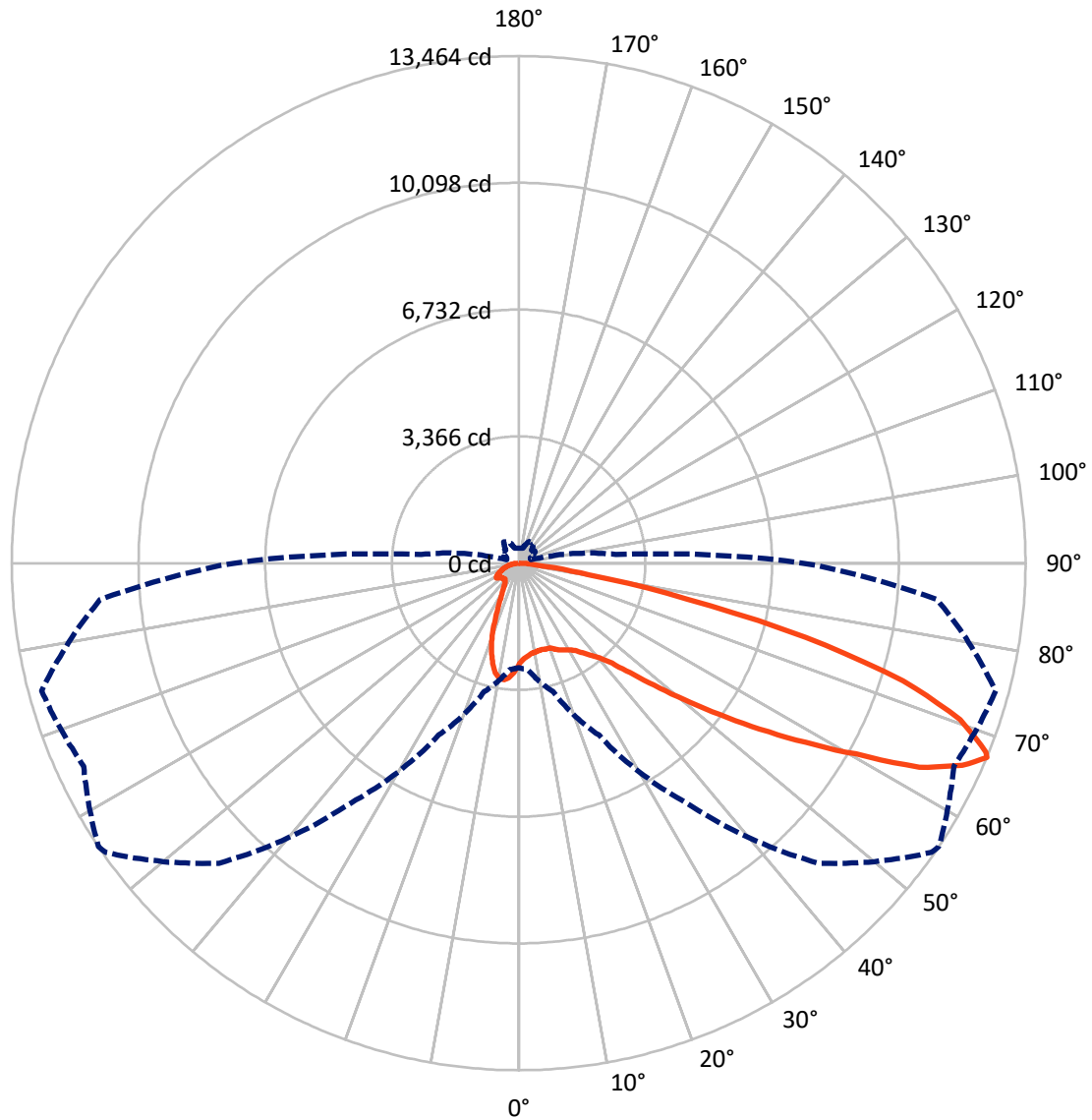
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2706.7	0.0	2706.7
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	14390.7	0.0	14390.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	17097.4	0.0	17097.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	1.5
10°-20°	699.2	4.1
20°-30°	1096.5	6.4
30°-40°	1565.3	9.2
40°-50°	2362.5	13.8
50°-60°	3760.7	22.0
60°-70°	4807.7	28.1
70°-80°	2344.1	13.7
80°-90°	205.1	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°	17097.4	100.0
0°-180°	17097.4	100.0

Coefficient of Utilization

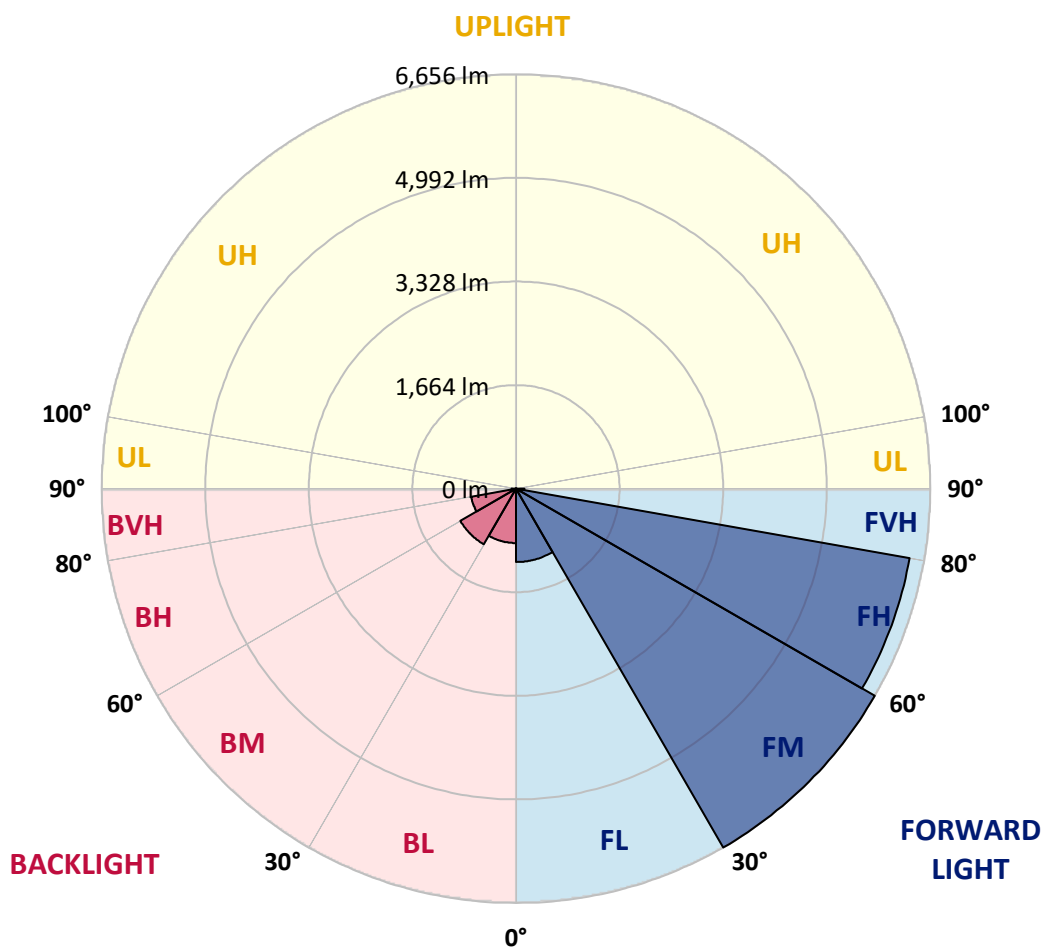


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1178.2	6.9			
FM (30°-60°)	6655.9	38.9			
FH (60°-80°)	6420.4	37.6			G3/7500
FVH (80°-90°)	136.2	0.8			G2/225
BL (0°-30°)	873.8	5.1	B2/1000		
BM (30°-60°)	1032.6	6.0	B2/2500		
BH (60°-80°)	731.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	68.9	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°	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3
2.5°	2443.8	2433.8	2445.8	2433.8	2487.9	2520.0	2530.0	2544.0	2594.2	2642.3
5°	2341.6	2297.4	2345.6	2361.6	2365.6	2419.7	2475.9	2485.9	2512.0	2590.1
7.5°	2171.1	2221.3	2203.2	2251.3	2301.5	2355.6	2447.8	2421.7	2518.0	2592.1
10°	2135.1	2139.1	2159.1	2177.2	2221.3	2291.4	2419.7	2403.7	2501.9	2660.3
12.5°	2171.1	2171.1	2165.1	2151.1	2201.2	2269.4	2371.6	2379.6	2534.0	2680.4
15°	2297.4	2321.5	2257.4	2267.4	2247.3	2269.4	2359.6	2377.6	2546.0	2696.4
17.5°	2606.2	2598.2	2522.0	2415.7	2327.5	2313.5	2375.6	2395.7	2534.0	2742.5
20°	2906.9	2890.9	2758.5	2648.3	2473.9	2391.7	2401.7	2403.7	2554.1	2772.6
22.5°	3241.7	3283.8	3139.4	2914.9	2698.4	2493.9	2453.8	2485.9	2600.2	2788.6
25°	3766.9	3676.7	3552.4	3257.7	2908.9	2652.3	2540.0	2556.1	2644.3	2828.7
27.5°	4145.8	4109.7	3915.3	3676.7	3203.6	2776.6	2586.1	2616.2	2724.5	2826.7
30°	4510.7	4510.7	4392.4	4035.6	3514.3	2985.1	2684.4	2670.3	2686.4	2822.7
32.5°	4937.7	4879.6	4709.2	4472.6	3905.3	3175.5	2762.6	2766.6	2766.6	2896.9
35°	5162.2	5256.5	5142.2	4757.3	4204.0	3492.3	2951.0	2920.9	2898.9	2979.1
37.5°	5491.0	5547.2	5426.9	5200.3	4574.9	3748.9	3117.4	3093.3	2965.0	3043.2
40°	5689.5	5679.5	5675.5	5571.2	5066.0	4051.6	3362.0	3299.8	3127.4	3269.8
42.5°	5801.8	5781.7	6028.3	5964.1	5529.1	4496.7	3668.7	3634.6	3444.2	3672.7
45°	5928.1	6076.4	6278.9	6459.3	6068.4	5122.1	4187.9	4139.8	3969.4	4260.1
47.5°	6038.3	6220.8	6479.4	6671.8	6555.5	5801.8	4829.5	4841.5	4729.2	5027.9
50°	6222.8	6240.8	6591.6	6980.6	7070.8	6429.2	5691.5	5671.5	5621.3	6040.3
52.5°	6166.6	6220.8	6663.8	7161.0	7309.3	7092.8	6617.7	6677.8	6611.7	7138.9
55°	5252.5	5414.8	6619.7	7351.4	7874.7	7842.6	7808.5	7768.4	7764.4	8373.9
57.5°	4837.5	4969.8	5831.8	7561.9	8480.1	8716.7	8937.2	8981.3	8979.3	9715.0
60°	4564.8	4701.1	5513.1	7447.7	8995.3	9861.4	10284.4	10290.4	10278.4	11148.4
62.5°	4031.6	4163.9	4961.8	6822.2	9137.7	10917.9	11860.1	11938.3	11387.0	12383.4
65°	3390.0	3498.3	4202.0	5865.9	8758.8	11589.5	13044.9	12952.7	12321.2	13089.0
67°	2772.6	2844.7	3530.4	5035.9	7768.4	11266.7	13387.8	13463.9	12752.2	13119.1
67.5°	2596.2	2662.3	3309.8	4753.3	7391.5	11022.1	13399.8	13387.8	12760.3	13125.1
70°	1802.3	1830.3	2255.3	3269.8	5444.9	9312.1	12421.5	12449.5	12225.0	12413.4
72.5°	1194.8	1236.9	1507.6	2060.9	3209.6	6776.1	10382.6	10683.3	10541.0	10178.1
75°	769.8	793.9	986.3	1226.9	1579.7	3859.2	7670.2	7870.7	7543.9	6294.9
77.5°	431.0	457.1	595.4	745.8	769.8	1605.8	4308.2	4556.8	3861.2	2674.3
80°	268.6	302.7	449.1	443.1	366.9	589.4	1776.2	1902.5	1543.7	920.2
82.5°	202.5	228.5	346.8	310.7	206.5	262.6	665.6	713.7	565.3	354.8
85°	138.3	174.4	250.6	192.5	108.3	126.3	264.6	284.7	258.6	172.4
87.5°	50.1	74.2	130.3	96.2	48.1	38.1	86.2	96.2	92.2	78.2
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°
2660.3	0°	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3	2660.3
2684.4	2.5°	2722.5	2750.5	2764.6	2846.8	2880.8	2874.8	2882.8	2894.9	2906.9	2922.9
2718.4	5°	2744.5	2830.7	2876.8	2973.1	3037.2	3009.1	3045.2	3035.2	3021.2	3019.2
2780.6	7.5°	2816.7	2926.9	3065.3	3091.3	3119.4	3049.2	2989.1	2906.9	2886.8	2816.7
2832.7	10°	2945.0	3035.2	3203.6	3213.6	3089.3	2908.9	2774.6	2604.2	2602.2	2499.9
2912.9	12.5°	3067.3	3169.5	3305.8	3247.7	2951.0	2704.4	2485.9	2299.5	2221.3	2169.1
2961.0	15°	3143.5	3311.9	3384.0	3133.4	2708.4	2375.6	2093.0	1892.5	1812.3	1774.2
3021.2	17.5°	3213.6	3448.2	3416.1	2933.0	2409.7	2036.8	1700.0	1525.6	1503.6	1475.5
3117.4	20°	3309.8	3498.3	3301.8	2672.3	2070.9	1599.8	1385.3	1301.1	1321.1	1333.2
3127.4	22.5°	3400.1	3524.4	3157.5	2387.7	1635.9	1267.0	1160.8	1178.8	1208.9	1249.0
3151.5	25°	3440.2	3566.5	2963.0	1994.7	1245.0	1066.5	1042.5	1072.5	1122.7	1124.7
3185.6	27.5°	3466.2	3536.4	2728.5	1611.8	984.3	932.2	968.3	990.3	996.4	1020.4
3257.7	30°	3512.3	3474.2	2431.8	1152.7	826.0	828.0	874.1	874.1	874.1	892.1
3329.9	32.5°	3592.5	3432.1	2084.9	842.0	711.7	775.8	763.8	759.8	751.8	729.7
3422.1	35°	3642.6	3317.9	1645.9	623.5	639.5	711.7	707.7	645.5	541.3	489.2
3656.7	37.5°	3746.9	3259.7	1210.9	481.1	597.4	679.6	657.6	507.2	392.9	342.8
3947.4	40°	3971.4	3221.6	838.0	421.0	569.4	663.6	587.4	433.0	300.7	212.5
4396.4	42.5°	4246.1	3223.6	569.4	396.9	571.4	697.7	565.3	370.9	212.5	170.4
4995.8	45°	4614.9	3193.6	390.9	396.9	607.4	753.8	579.4	336.8	206.5	216.5
5747.6	47.5°	5011.9	3219.6	290.7	360.9	613.5	755.8	529.3	330.8	198.5	250.6
6565.6	50°	5475.0	3245.7	240.6	332.8	615.5	731.7	487.2	322.8	206.5	264.6
7503.8	52.5°	5952.1	3327.9	204.5	314.7	639.5	721.7	487.2	334.8	206.5	230.5
8698.6	55°	6663.8	3538.4	294.7	392.9	727.7	787.9	599.4	469.1	288.7	296.7
9843.3	57.5°	7449.7	3754.9	328.8	413.0	747.8	709.7	645.5	517.2	304.7	306.7
10733.5	60°	7966.9	3762.9	326.8	403.0	699.7	613.5	631.5	545.3	310.7	262.6
11284.8	62.5°	8173.4	3518.3	340.8	403.0	651.5	573.4	647.5	587.4	320.8	328.8
11441.1	65°	7938.8	3013.1	328.8	360.9	573.4	513.2	651.5	595.4	350.8	330.8
11160.5	67°	7572.0	2596.2	334.8	342.8	533.3	487.2	685.6	625.5	407.0	396.9
11014.1	67.5°	7467.7	2485.9	332.8	332.8	519.2	479.1	693.6	625.5	415.0	411.0
9721.1	70°	6581.6	2014.8	340.8	328.8	459.1	455.1	737.7	659.6	477.1	481.1
7140.9	72.5°	5009.9	1527.6	338.8	328.8	398.9	435.0	743.8	681.6	519.2	481.1
3999.5	75°	2846.8	914.2	298.7	286.7	314.7	378.9	695.6	649.5	505.2	431.0
1597.8	77.5°	1176.8	471.1	274.7	258.6	260.6	308.7	579.4	605.4	481.1	366.9
533.3	80°	439.0	282.7	220.5	206.5	200.5	226.5	413.0	483.1	411.0	300.7
234.6	82.5°	228.5	176.4	150.4	150.4	136.3	144.3	222.5	320.8	310.7	206.5
94.2	85°	116.3	100.2	86.2	84.2	76.2	68.2	112.3	190.5	178.4	114.3
42.1	87.5°	62.1	56.1	36.1	34.1	28.1	18.0	20.0	38.1	62.1	50.1
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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<u>180°</u>
2660.3
2939.0
3037.2
2840.7
2495.9
2157.1
1766.2
1489.5
1319.1
1226.9
1144.7
1042.5
912.2
717.7
513.2
340.8
206.5
166.4
220.5
278.7
306.7
236.6
312.7
296.7
270.6
332.8
324.8
390.9
403.0
445.1
427.0
384.9
346.8
274.7
162.4
94.2
36.1
0.0

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