

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: P477650

Luminaire Tested: **IFLD-S-SA3B-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477650
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

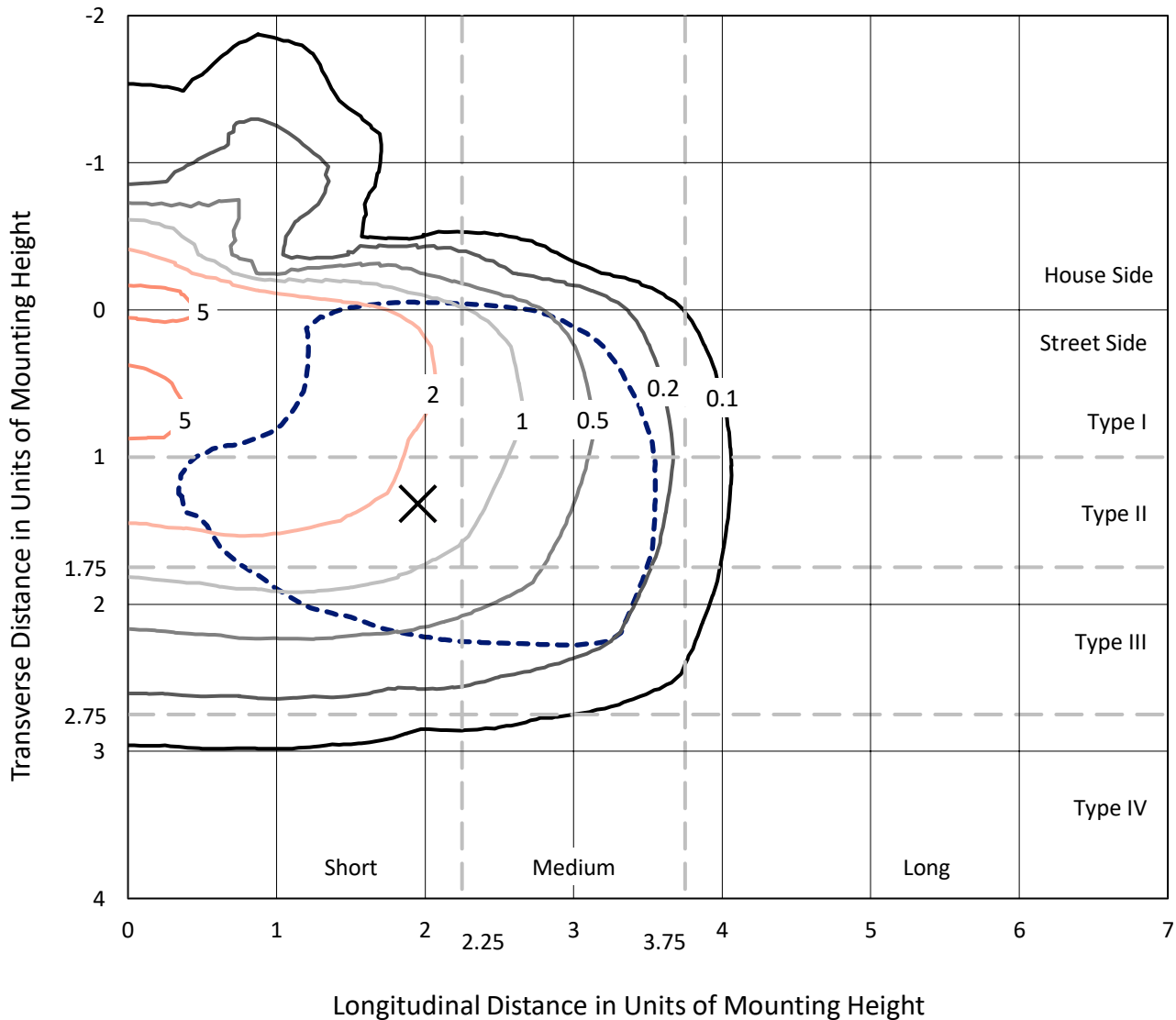
Lumens per Lamp: N/A
Luminaire Lumens: 13978.4 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (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

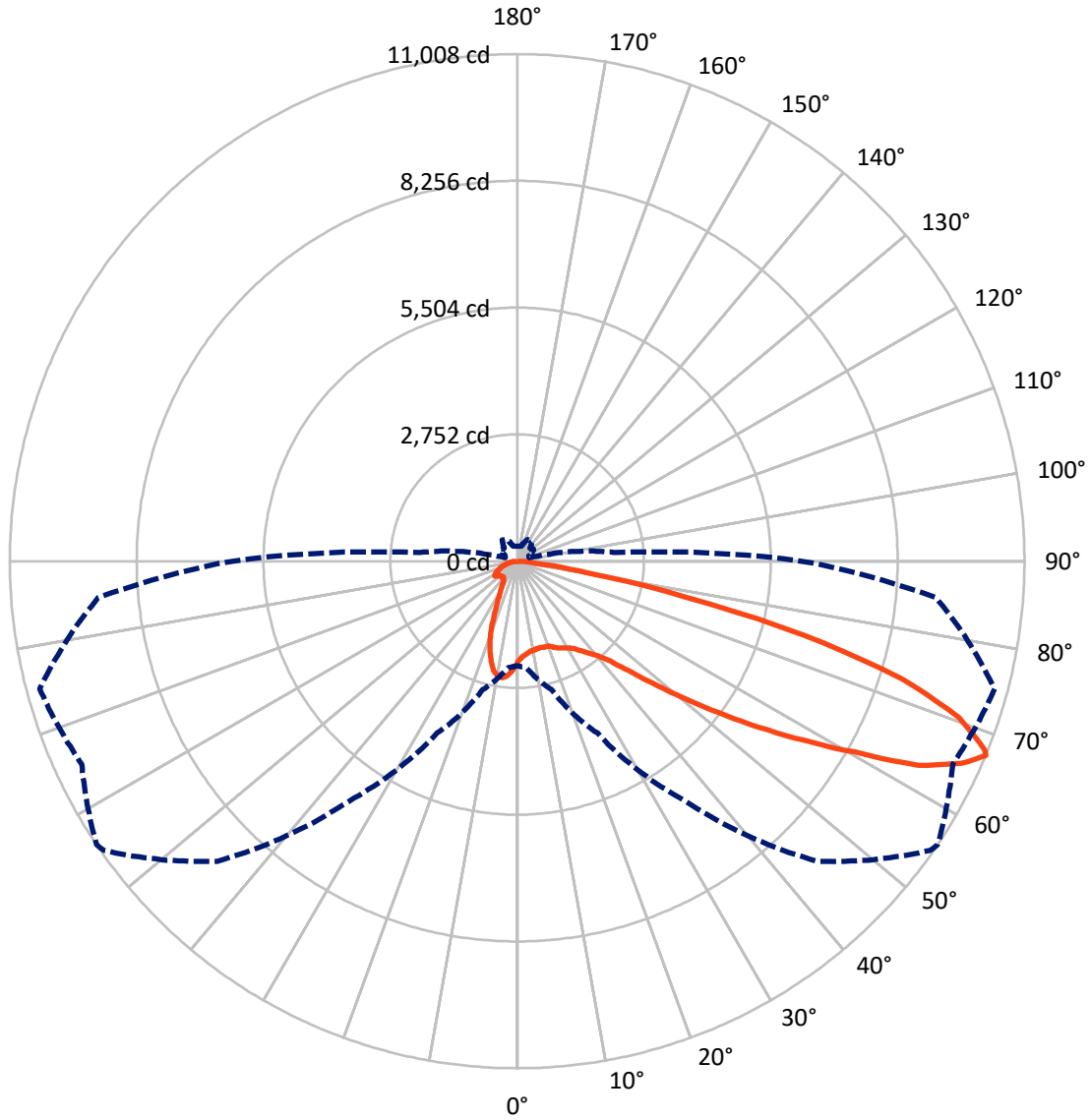
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 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	2212.9	0.0	2212.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11765.5	0.0	11765.5
	% Fixture	84.2	0.0	84.2
Total	Lumens	13978.4	0.0	13978.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.5	1.5
10°-20°	571.6	4.1
20°-30°	896.5	6.4
30°-40°	1279.8	9.2
40°-50°	1931.5	13.8
50°-60°	3074.7	22.0
60°-70°	3930.7	28.1
70°-80°	1916.5	13.7
80°-90°	167.7	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°	13978.4	100.0
0°-180°	13978.4	100.0

Coefficient of Utilization

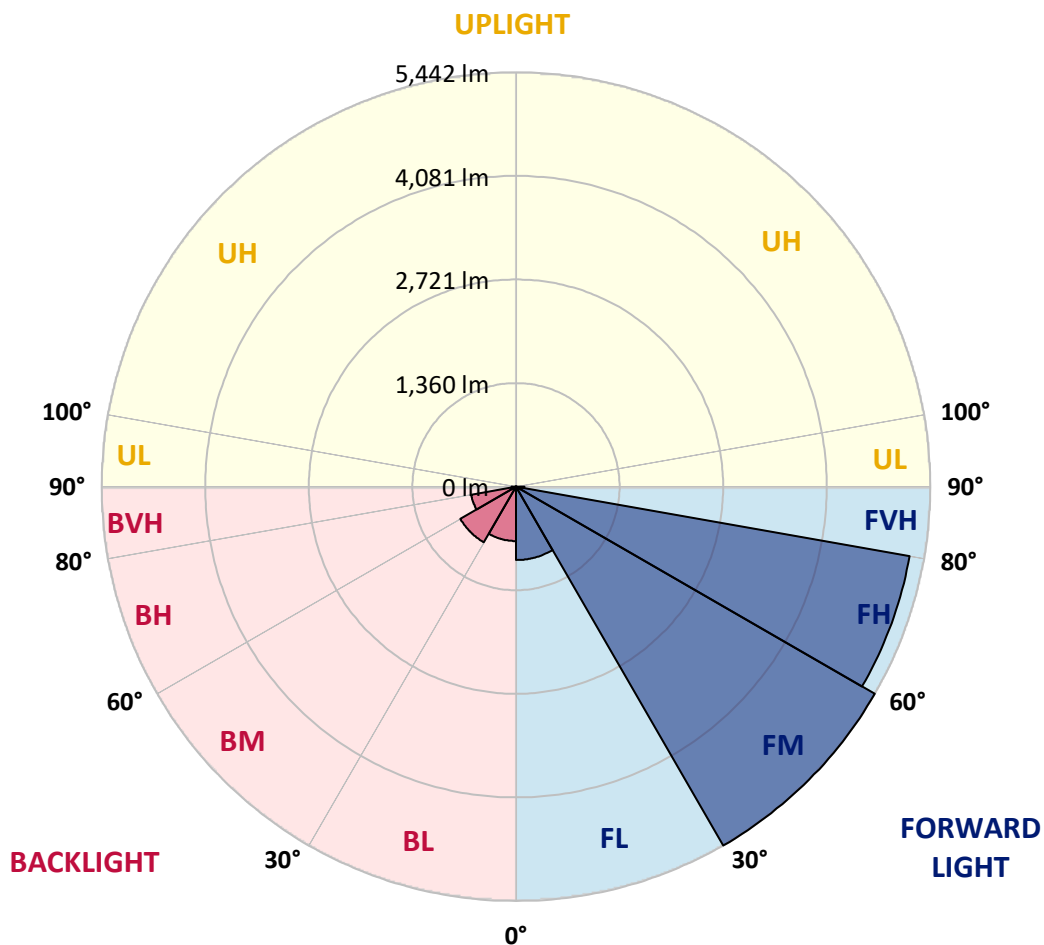


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.3	6.9			
FM (30°-60°)	5441.7	38.9			
FH (60°-80°)	5249.2	37.6			G3/7500
FVH (80°-90°)	111.3	0.8			G2/225
BL (0°-30°)	714.4	5.1	B2/1000		
BM (30°-60°)	844.3	6.0	B1/1000		
BH (60°-80°)	598.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	56.3	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°	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0
2.5°	1998.0	1989.8	1999.6	1989.8	2034.1	2060.3	2068.5	2079.9	2120.9	2160.3
5°	1914.4	1878.3	1917.7	1930.8	1934.1	1978.3	2024.2	2032.4	2053.7	2117.6
7.5°	1775.1	1816.1	1801.3	1840.6	1881.6	1925.9	2001.3	1980.0	2058.6	2119.3
10°	1745.6	1748.9	1765.2	1780.0	1816.1	1873.4	1978.3	1965.2	2045.5	2175.0
12.5°	1775.1	1775.1	1770.2	1758.7	1799.7	1855.4	1939.0	1945.5	2071.7	2191.4
15°	1878.3	1898.0	1845.6	1853.8	1837.4	1855.4	1929.2	1943.9	2081.6	2204.5
17.5°	2130.8	2124.2	2061.9	1975.0	1902.9	1891.5	1942.3	1958.7	2071.7	2242.2
20°	2376.6	2363.5	2255.3	2165.2	2022.6	1955.4	1963.6	1965.2	2088.1	2266.8
22.5°	2650.3	2684.8	2566.7	2383.2	2206.2	2039.0	2006.2	2032.4	2125.8	2279.9
25°	3079.8	3006.0	2904.4	2663.4	2378.3	2168.5	2076.7	2089.8	2161.9	2312.7
27.5°	3389.5	3360.0	3201.0	3006.0	2619.2	2270.1	2114.4	2139.0	2227.5	2311.0
30°	3687.8	3687.8	3591.1	3299.4	2873.2	2440.5	2194.7	2183.2	2196.3	2307.8
32.5°	4037.0	3989.4	3850.1	3656.7	3192.9	2596.2	2258.6	2261.9	2261.9	2368.4
35°	4220.5	4297.6	4204.1	3889.4	3437.1	2855.2	2412.7	2388.1	2370.1	2435.6
37.5°	4489.3	4535.2	4436.9	4251.7	3740.3	3065.0	2548.7	2529.0	2424.1	2488.1
40°	4651.6	4643.4	4640.1	4554.9	4141.9	3312.5	2748.7	2697.9	2556.9	2673.3
42.5°	4743.4	4727.0	4928.6	4876.2	4520.5	3676.4	2999.4	2971.6	2815.9	3002.7
45°	4846.6	4967.9	5133.5	5281.0	4961.4	4187.8	3424.0	3384.6	3245.3	3483.0
47.5°	4936.8	5085.9	5297.4	5454.7	5359.7	4743.4	3948.5	3958.3	3866.5	4110.7
50°	5087.6	5102.3	5389.2	5707.1	5780.9	5256.4	4653.2	4636.9	4595.9	4938.4
52.5°	5041.7	5085.9	5448.2	5854.7	5975.9	5798.9	5410.5	5459.6	5405.6	5836.6
55°	4294.3	4427.1	5412.1	6010.4	6438.2	6411.9	6384.1	6351.3	6348.0	6846.3
57.5°	3955.0	4063.2	4768.0	6182.5	6933.1	7126.6	7306.9	7342.9	7341.3	7942.8
60°	3732.1	3843.6	4507.4	6089.0	7354.4	8062.4	8408.3	8413.2	8403.4	9114.7
62.5°	3296.1	3404.3	4056.6	5577.7	7470.8	8926.2	9696.6	9760.5	9309.8	10124.4
65°	2771.6	2860.1	3435.4	4795.8	7161.0	9475.3	10665.2	10589.9	10073.6	10701.3
67°	2266.8	2325.8	2886.4	4117.3	6351.3	9211.4	10945.5	11007.8	10425.9	10725.9
67.5°	2122.6	2176.6	2706.1	3886.2	6043.1	9011.5	10955.4	10945.5	10432.5	10730.8
70°	1473.5	1496.4	1843.9	2673.3	4451.6	7613.4	10155.5	10178.5	9994.9	10148.9
72.5°	976.9	1011.3	1232.6	1684.9	2624.1	5540.0	8488.6	8734.5	8618.1	8321.4
75°	629.4	649.1	806.4	1003.1	1291.6	3155.2	6271.0	6434.9	6167.7	5146.6
77.5°	352.4	373.7	486.8	609.7	629.4	1312.9	3522.3	3725.5	3156.8	2186.5
80°	219.6	247.5	367.1	362.2	299.9	481.9	1452.2	1555.5	1262.1	752.3
82.5°	165.5	186.9	283.6	254.1	168.8	214.7	544.2	583.5	462.2	290.1
85°	113.1	142.6	204.9	157.3	88.5	103.3	216.4	232.7	211.4	141.0
87.5°	41.0	60.6	106.5	78.7	39.3	31.1	70.5	78.7	75.4	63.9
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°
2175.0	0°	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0	2175.0
2194.7	2.5°	2225.8	2248.8	2260.2	2327.4	2355.3	2350.4	2356.9	2366.8	2376.6	2389.7
2222.5	5°	2243.8	2314.3	2352.0	2430.7	2483.1	2460.2	2489.7	2481.5	2470.0	2468.4
2273.4	7.5°	2302.9	2393.0	2506.1	2527.4	2550.3	2493.0	2443.8	2376.6	2360.2	2302.9
2316.0	10°	2407.8	2481.5	2619.2	2627.4	2525.8	2378.3	2268.4	2129.1	2127.5	2043.9
2381.5	12.5°	2507.7	2591.3	2702.8	2655.2	2412.7	2211.1	2032.4	1880.0	1816.1	1773.4
2420.9	15°	2570.0	2707.7	2766.7	2561.8	2214.3	1942.3	1711.2	1547.3	1481.7	1450.6
2470.0	17.5°	2627.4	2819.2	2792.9	2397.9	1970.1	1665.3	1389.9	1247.3	1229.3	1206.3
2548.7	20°	2706.1	2860.1	2699.5	2184.8	1693.1	1308.0	1132.6	1063.7	1080.1	1090.0
2556.9	22.5°	2779.8	2881.4	2581.5	1952.1	1337.5	1035.9	949.0	963.8	988.3	1021.1
2576.6	25°	2812.6	2915.9	2422.5	1630.8	1017.8	872.0	852.3	876.9	917.9	919.5
2604.4	27.5°	2833.9	2891.3	2230.7	1317.8	804.8	762.2	791.7	809.7	814.6	834.3
2663.4	30°	2871.6	2840.5	1988.2	942.4	675.3	676.9	714.6	714.6	714.6	729.4
2722.4	32.5°	2937.2	2806.0	1704.6	688.4	581.9	634.3	624.5	621.2	614.6	596.6
2797.8	35°	2978.1	2712.6	1345.7	509.7	522.9	581.9	578.6	527.8	442.5	399.9
2989.6	37.5°	3063.4	2665.1	990.0	393.4	488.4	555.6	537.6	414.7	321.3	280.3
3227.3	40°	3246.9	2633.9	685.1	344.2	465.5	542.5	480.2	354.0	245.9	173.7
3594.4	42.5°	3471.5	2635.6	465.5	324.5	467.1	570.4	462.2	303.2	173.7	139.3
4084.5	45°	3773.1	2611.0	319.6	324.5	496.6	616.3	473.7	275.4	168.8	177.0
4699.1	47.5°	4097.6	2632.3	237.7	295.0	501.5	617.9	432.7	270.4	162.3	204.9
5367.9	50°	4476.2	2653.6	196.7	272.1	503.2	598.3	398.3	263.9	168.8	216.4
6134.9	52.5°	4866.3	2720.8	167.2	257.3	522.9	590.1	398.3	273.7	168.8	188.5
7111.8	55°	5448.2	2892.9	240.9	321.3	595.0	644.1	490.1	383.5	236.0	242.6
8047.7	57.5°	6090.7	3069.9	268.8	337.6	611.4	580.2	527.8	422.9	249.1	250.8
8775.4	60°	6513.6	3076.5	267.2	329.4	572.0	501.5	516.3	445.8	254.1	214.7
9226.2	62.5°	6682.4	2876.5	278.6	329.4	532.7	468.8	529.4	480.2	262.2	268.8
9354.0	65°	6490.6	2463.5	268.8	295.0	468.8	419.6	532.7	486.8	286.8	270.4
9124.5	67°	6190.7	2122.6	273.7	280.3	436.0	398.3	560.6	511.4	332.7	324.5
9004.9	67.5°	6105.4	2032.4	272.1	272.1	424.5	391.7	567.1	511.4	339.3	336.0
7947.7	70°	5381.0	1647.2	278.6	268.8	375.3	372.1	603.2	539.2	390.1	393.4
5838.3	72.5°	4096.0	1249.0	277.0	268.8	326.2	355.7	608.1	557.3	424.5	393.4
3269.9	75°	2327.4	747.4	244.2	234.4	257.3	309.8	568.7	531.0	413.0	352.4
1306.3	77.5°	962.1	385.2	224.5	211.4	213.1	252.4	473.7	495.0	393.4	299.9
436.0	80°	359.0	231.1	180.3	168.8	163.9	185.2	337.6	395.0	336.0	245.9
191.8	82.5°	186.9	144.2	122.9	122.9	111.5	118.0	181.9	262.2	254.1	168.8
77.0	85°	95.1	82.0	70.5	68.8	62.3	55.7	91.8	155.7	145.9	93.4
34.4	87.5°	50.8	45.9	29.5	27.9	22.9	14.8	16.4	31.1	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

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180°
2175.0
2402.8
2483.1
2322.5
2040.6
1763.6
1444.0
1217.8
1078.5
1003.1
935.9
852.3
745.8
586.8
419.6
278.6
168.8
136.0
180.3
227.8
250.8
193.4
255.7
242.6
221.3
272.1
265.5
319.6
329.4
363.9
349.1
314.7
283.6
224.5
132.8
77.0
29.5
0.0

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