

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: P477802

Luminaire Tested: **IFLD-S-SA2C-750-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477802
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

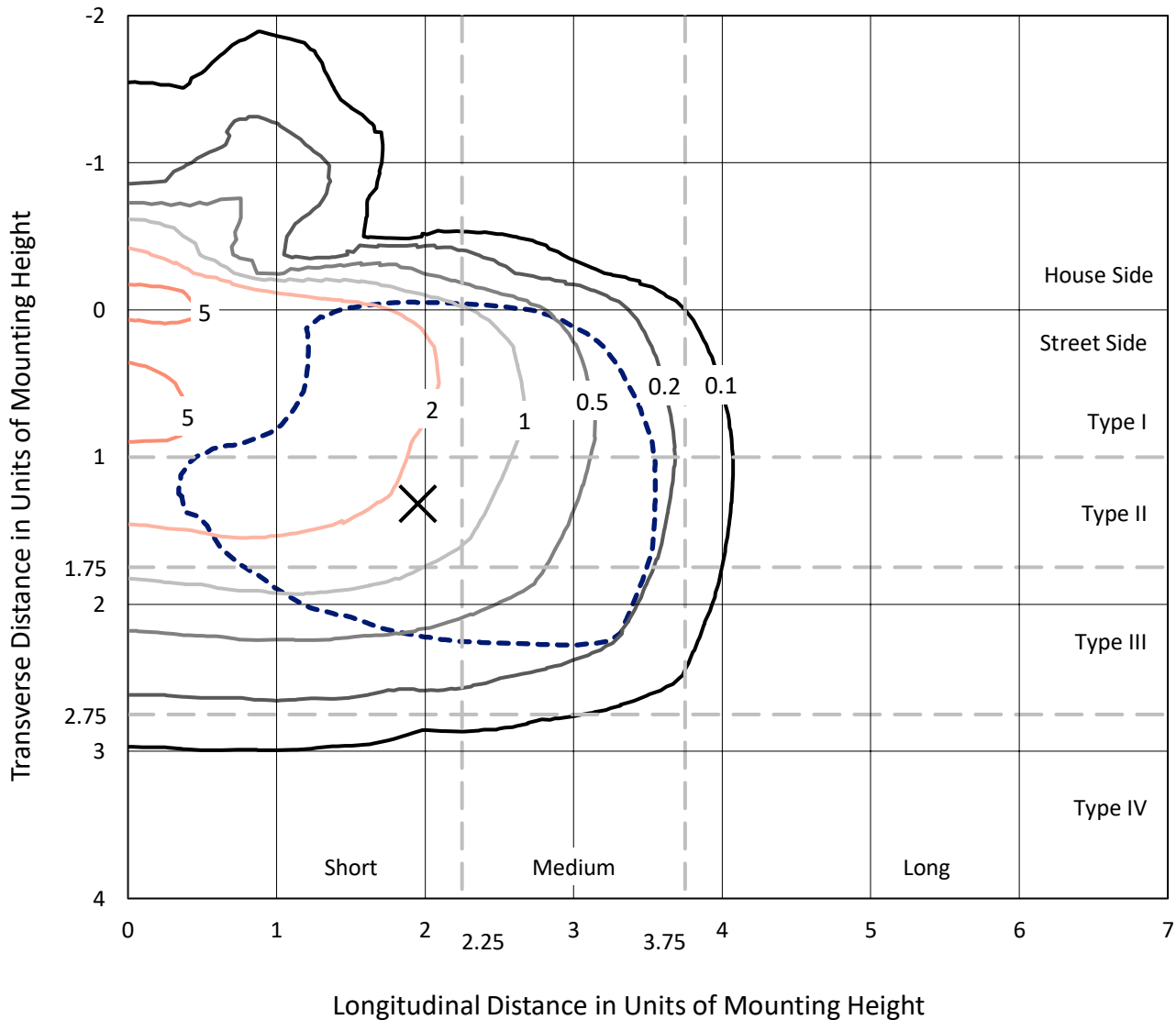
Lumens per Lamp: N/A
Luminaire Lumens: 14281.5 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

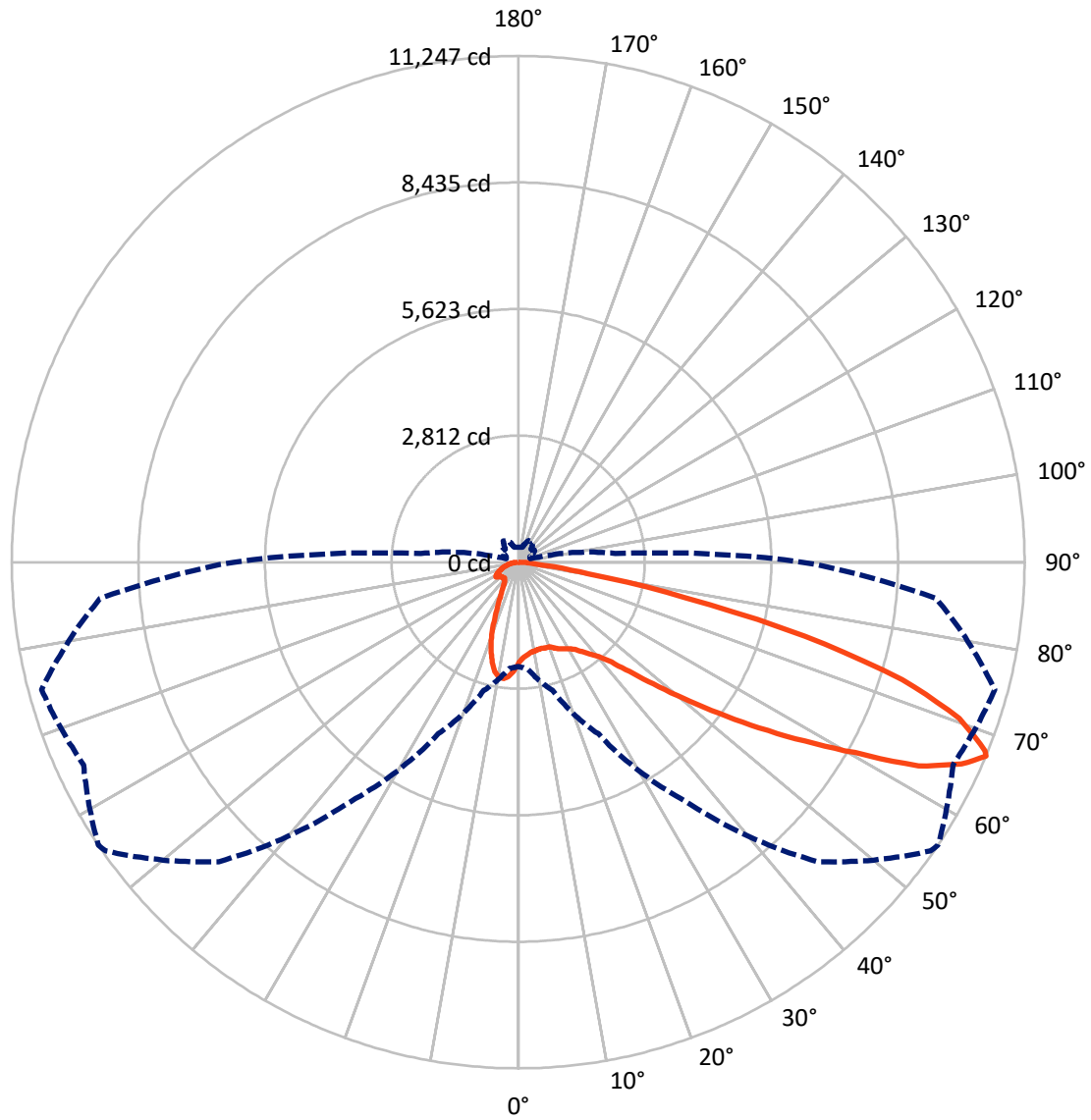
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	2260.9	0.0	2260.9
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	12020.6	0.0	12020.6
	% Fixture	84.2	0.0	84.2
Total	Lumens	14281.5	0.0	14281.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	1.5
10°-20°	584.0	4.1
20°-30°	915.9	6.4
30°-40°	1307.5	9.2
40°-50°	1973.4	13.8
50°-60°	3141.3	22.0
60°-70°	4015.9	28.1
70°-80°	1958.0	13.7
80°-90°	171.3	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°	14281.5	100.0
0°-180°	14281.5	100.0

Coefficient of Utilization

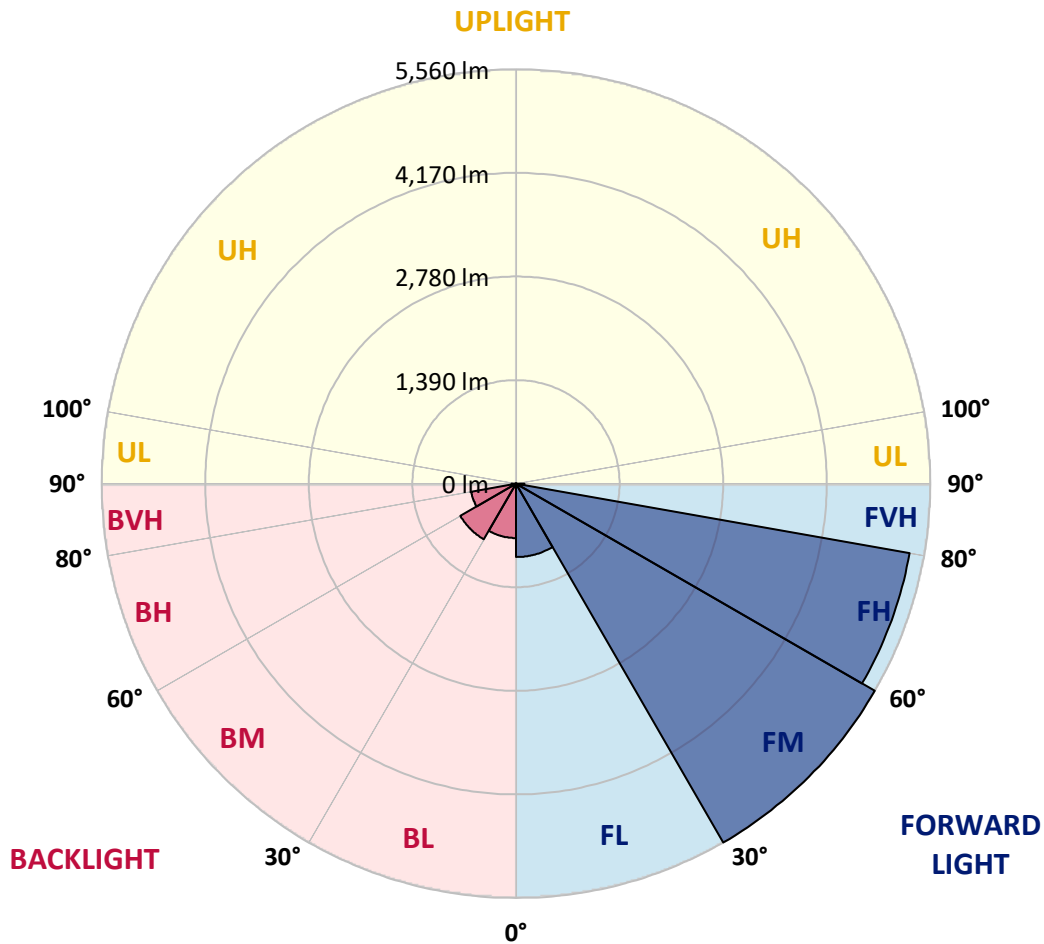


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.2	6.9			
FM (30°-60°)	5559.7	38.9			
FH (60°-80°)	5363.0	37.6			G3/7500
FVH (80°-90°)	113.8	0.8			G2/225
BL (0°-30°)	729.9	5.1	B2/1000		
BM (30°-60°)	862.6	6.0	B1/1000		
BH (60°-80°)	610.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	57.5	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°	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2
2.5°	2041.3	2032.9	2043.0	2032.9	2078.2	2104.9	2113.3	2125.0	2166.9	2207.1
5°	1955.9	1919.1	1959.3	1972.7	1976.0	2021.2	2068.1	2076.5	2098.2	2163.6
7.5°	1813.6	1855.4	1840.4	1880.6	1922.4	1967.6	2044.7	2022.9	2103.3	2165.2
10°	1783.4	1786.8	1803.5	1818.6	1855.4	1914.0	2021.2	2007.8	2089.9	2222.2
12.5°	1813.6	1813.6	1808.5	1796.8	1838.7	1895.6	1981.0	1987.7	2116.7	2238.9
15°	1919.1	1939.2	1885.6	1893.9	1877.2	1895.6	1971.0	1986.0	2126.7	2252.3
17.5°	2177.0	2170.3	2106.6	2017.9	1944.2	1932.5	1984.4	2001.1	2116.7	2290.8
20°	2428.1	2414.7	2304.2	2212.1	2066.4	1997.8	2006.1	2007.8	2133.4	2315.9
22.5°	2707.8	2743.0	2622.4	2434.8	2254.0	2083.2	2049.7	2076.5	2171.9	2329.3
25°	3146.5	3071.2	2967.4	2721.2	2429.8	2215.5	2121.7	2135.1	2208.8	2362.8
27.5°	3463.0	3432.9	3270.4	3071.2	2676.0	2319.3	2160.2	2185.3	2275.8	2361.2
30°	3767.8	3767.8	3669.0	3370.9	2935.5	2493.4	2242.3	2230.5	2243.9	2357.8
32.5°	4124.5	4075.9	3933.6	3736.0	3262.1	2652.5	2307.6	2310.9	2310.9	2419.8
35°	4312.0	4390.7	4295.3	3973.8	3511.6	2917.1	2465.0	2439.9	2421.4	2488.4
37.5°	4586.7	4633.6	4533.1	4343.9	3821.4	3131.5	2604.0	2583.9	2476.7	2542.0
40°	4752.5	4744.1	4740.7	4653.7	4231.7	3384.3	2808.3	2756.4	2612.3	2731.2
42.5°	4846.2	4829.5	5035.5	4981.9	4618.5	3756.1	3064.5	3036.0	2876.9	3067.8
45°	4951.7	5075.6	5244.8	5395.5	5068.9	4278.5	3498.2	3458.0	3315.7	3558.5
47.5°	5043.8	5196.2	5412.2	5573.0	5475.9	4846.2	4034.1	4044.1	3950.3	4199.8
50°	5197.9	5213.0	5506.0	5830.9	5906.2	5370.4	4754.1	4737.4	4695.5	5045.5
52.5°	5151.0	5196.2	5566.3	5981.6	6105.5	5924.7	5527.8	5578.0	5522.8	5963.2
55°	4387.4	4523.0	5529.5	6140.7	6577.7	6550.9	6522.5	6489.0	6485.6	6994.7
57.5°	4040.8	4151.3	4871.3	6316.5	7083.5	7281.1	7465.3	7502.1	7500.4	8115.0
60°	3813.0	3926.9	4605.1	6221.1	7513.8	8237.2	8590.6	8595.6	8585.6	9312.3
62.5°	3367.6	3478.1	4144.6	5698.6	7632.7	9119.7	9906.8	9972.1	9511.6	10343.9
65°	2831.7	2922.1	3509.9	4899.8	7316.2	9680.7	10896.5	10819.4	10292.0	10933.3
67°	2315.9	2376.2	2948.9	4206.5	6489.0	9411.1	11182.8	11246.5	10652.0	10958.4
67.5°	2168.6	2223.8	2764.7	3970.4	6174.2	9206.8	11192.9	11182.8	10658.7	10963.5
70°	1505.4	1528.9	1883.9	2731.2	4548.2	7778.4	10375.7	10399.1	10211.6	10369.0
72.5°	998.0	1033.2	1259.3	1721.5	2681.0	5660.1	8672.6	8923.8	8804.9	8501.8
75°	643.0	663.1	823.9	1024.8	1319.6	3223.6	6406.9	6574.4	6301.4	5258.2
77.5°	360.0	381.8	497.3	622.9	643.0	1341.3	3598.7	3806.3	3225.2	2233.9
80°	224.4	252.9	375.1	370.1	306.4	492.3	1483.7	1589.2	1289.4	768.6
82.5°	169.1	190.9	289.7	259.6	172.5	219.4	556.0	596.1	472.2	296.4
85°	115.5	145.7	209.3	160.8	90.4	105.5	221.0	237.8	216.0	144.0
87.5°	41.9	62.0	108.8	80.4	40.2	31.8	72.0	80.4	77.0	65.3
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°
2222.2	0°	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2	2222.2
2242.3	2.5°	2274.1	2297.5	2309.2	2377.9	2406.4	2401.3	2408.0	2418.1	2428.1	2441.5
2270.7	5°	2292.5	2364.5	2403.0	2483.4	2537.0	2513.5	2543.7	2535.3	2523.6	2521.9
2322.6	7.5°	2352.8	2444.9	2560.4	2582.2	2605.6	2547.0	2496.8	2428.1	2411.4	2352.8
2366.2	10°	2460.0	2535.3	2676.0	2684.3	2580.5	2429.8	2317.6	2175.3	2173.6	2088.2
2433.2	12.5°	2562.1	2647.5	2761.4	2712.8	2465.0	2259.0	2076.5	1920.7	1855.4	1811.9
2473.4	15°	2625.7	2766.4	2826.7	2617.4	2262.4	1984.4	1748.3	1580.8	1513.8	1482.0
2523.6	17.5°	2684.3	2880.3	2853.5	2449.9	2012.8	1701.4	1420.0	1274.4	1255.9	1232.5
2604.0	20°	2764.7	2922.1	2758.0	2232.2	1729.8	1336.3	1157.1	1086.8	1103.5	1113.6
2612.3	22.5°	2840.1	2943.9	2637.5	1994.4	1366.5	1058.3	969.6	984.7	1009.8	1043.3
2632.4	25°	2873.6	2979.1	2475.0	1666.2	1039.9	890.9	870.8	895.9	937.8	939.4
2660.9	27.5°	2895.3	2954.0	2279.1	1346.4	822.2	778.7	808.8	827.2	832.3	852.4
2721.2	30°	2933.9	2902.0	2031.3	962.9	689.9	691.6	730.1	730.1	730.1	745.2
2781.5	32.5°	3000.8	2866.9	1741.6	703.3	594.5	648.1	638.0	634.7	628.0	609.5
2858.5	35°	3042.7	2771.4	1374.8	520.8	534.2	594.5	591.1	539.2	452.1	408.6
3054.4	37.5°	3129.8	2722.9	1011.4	401.9	499.0	567.7	549.3	423.7	328.2	286.4
3297.2	40°	3317.3	2691.0	700.0	351.7	475.6	554.3	490.7	361.7	251.2	177.5
3672.3	42.5°	3546.8	2692.7	475.6	331.6	477.3	582.8	472.2	309.8	177.5	142.3
4173.0	45°	3854.9	2667.6	326.5	331.6	507.4	629.6	484.0	281.3	172.5	180.9
4801.0	47.5°	4186.4	2689.4	242.8	301.4	512.4	631.3	442.1	276.3	165.8	209.3
5484.2	50°	4573.3	2711.1	200.9	278.0	514.1	611.2	406.9	269.6	172.5	221.0
6267.9	52.5°	4971.8	2779.8	170.8	262.9	534.2	602.8	406.9	279.7	172.5	192.6
7266.0	55°	5566.3	2955.6	246.2	328.2	607.9	658.1	500.7	391.9	241.1	247.8
8222.2	57.5°	6222.7	3136.5	274.6	345.0	624.6	592.8	539.2	432.0	254.5	256.2
8965.7	60°	6654.8	3143.2	273.0	336.6	584.4	512.4	527.5	455.5	259.6	219.4
9426.2	62.5°	6827.3	2938.9	284.7	336.6	544.2	478.9	540.9	490.7	267.9	274.6
9556.8	65°	6631.3	2516.9	274.6	301.4	478.9	428.7	544.2	497.3	293.1	276.3
9322.4	67°	6324.9	2168.6	279.7	286.4	445.4	406.9	572.7	522.5	339.9	331.6
9200.1	67.5°	6237.8	2076.5	278.0	278.0	433.7	400.2	579.4	522.5	346.6	343.3
8120.0	70°	5497.6	1683.0	284.7	274.6	383.5	380.1	616.2	550.9	398.5	401.9
5964.8	72.5°	4184.8	1276.0	283.0	274.6	333.2	363.4	621.3	569.4	433.7	401.9
3340.8	75°	2377.9	763.6	249.5	239.5	262.9	316.5	581.1	542.6	422.0	360.0
1334.6	77.5°	983.0	393.5	229.4	216.0	217.7	257.9	484.0	505.7	401.9	306.4
445.4	80°	366.7	236.1	184.2	172.5	167.5	189.2	345.0	403.6	343.3	251.2
195.9	82.5°	190.9	147.4	125.6	125.6	113.9	120.6	185.9	267.9	259.6	172.5
78.7	85°	97.1	83.7	72.0	70.3	63.6	56.9	93.8	159.1	149.0	95.5
35.2	87.5°	51.9	46.9	30.1	28.5	23.4	15.1	16.7	31.8	51.9	41.9
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>
2222.2
2454.9
2537.0
2372.9
2084.8
1801.8
1475.3
1244.2
1101.9
1024.8
956.2
870.8
761.9
599.5
428.7
284.7
172.5
139.0
184.2
232.8
256.2
197.6
261.2
247.8
226.1
278.0
271.3
326.5
336.6
371.8
356.7
321.5
289.7
229.4
135.6
78.7
30.1
0.0

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