

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: P477416

Luminaire Tested: **IFLD-S-SA3B-750-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477416
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

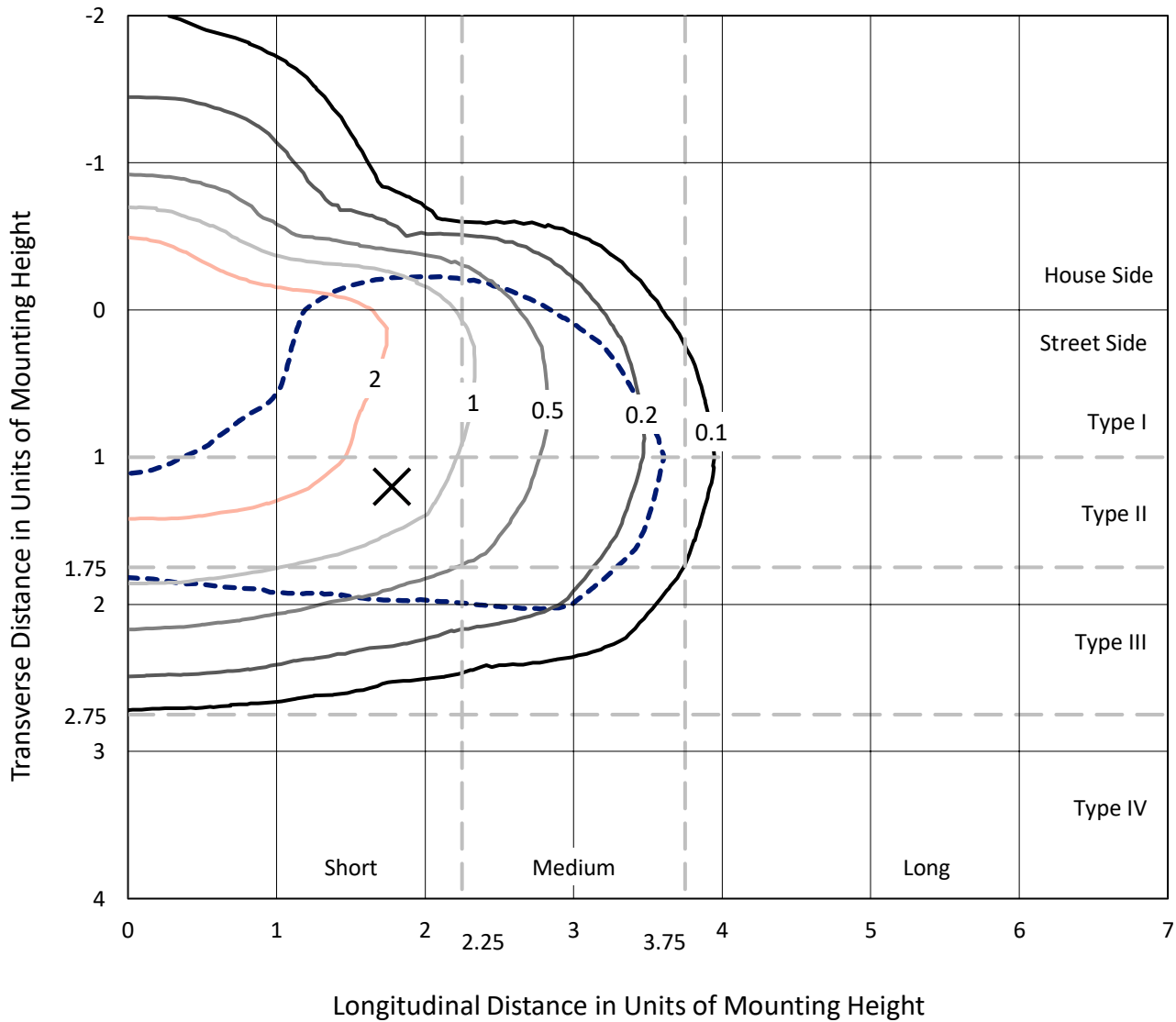
Lumens per Lamp: N/A
Luminaire Lumens: 17727.9 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

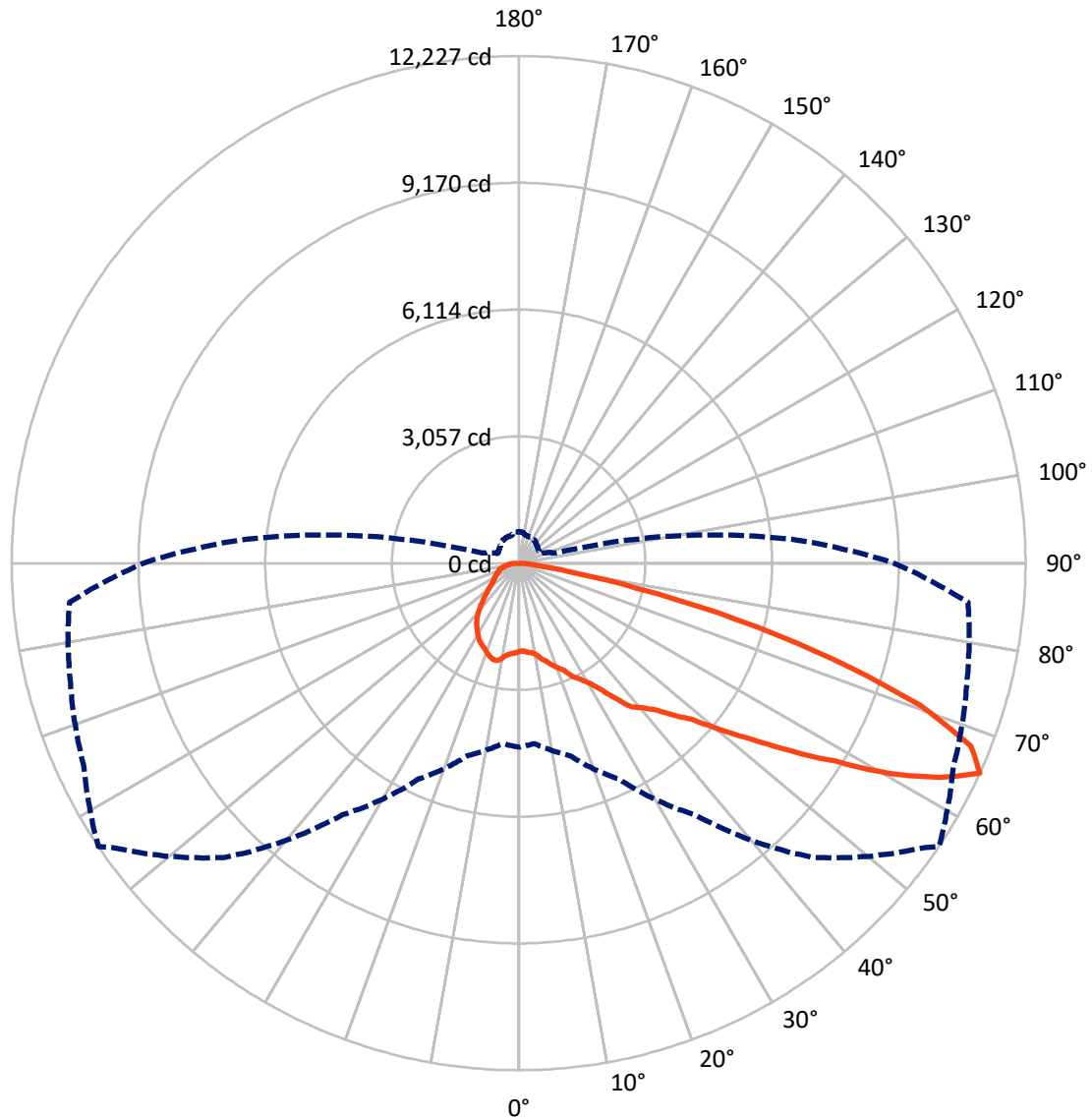
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	3975.8	0.0	3975.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	13752.1	0.0	13752.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	17727.9	0.0	17727.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	1.2
10°-20°	684.7	3.9
20°-30°	1219.2	6.9
30°-40°	1825.6	10.3
40°-50°	2704.9	15.3
50°-60°	4167.9	23.5
60°-70°	4718.6	26.6
70°-80°	1958.3	11.0
80°-90°	237.9	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°	17727.9	100.0
0°-180°	17727.9	100.0

Coefficient of Utilization

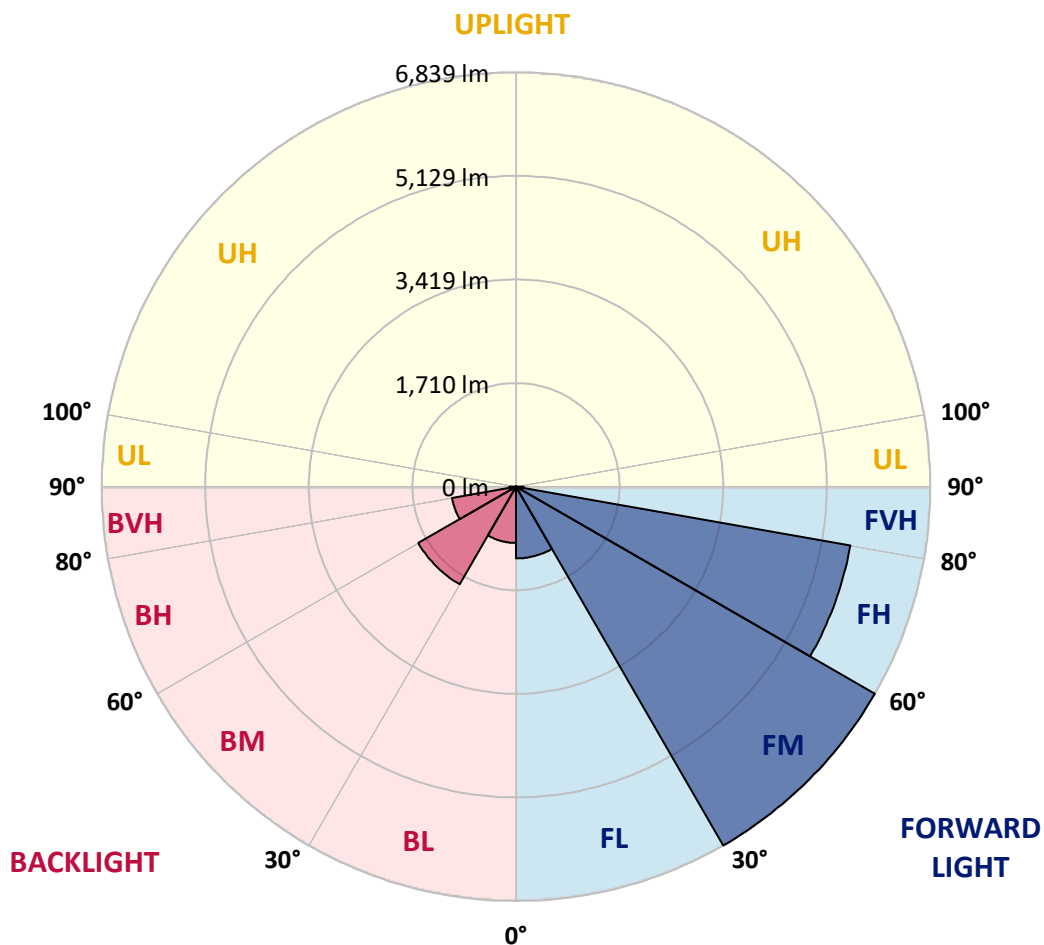


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.7	6.7			
FM (30°-60°)	6838.6	38.6			
FH (60°-80°)	5603.2	31.6			G3/7500
FVH (80°-90°)	125.5	0.7			G2/225
BL (0°-30°)	930.0	5.2	B2/1000		
BM (30°-60°)	1859.8	10.5	B2/2500		
BH (60°-80°)	1073.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	112.4	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°	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9
2.5°	2072.2	2083.3	2075.9	2098.2	2116.7	2116.7	2131.6	2120.4	2135.3	2155.7
5°	2140.8	2096.3	2120.4	2131.6	2126.0	2135.3	2120.4	2157.5	2133.4	2172.4
7.5°	2157.5	2174.2	2194.6	2176.1	2192.8	2183.5	2185.4	2179.8	2166.8	2198.3
10°	2280.0	2255.9	2302.2	2274.4	2270.7	2267.0	2259.6	2231.7	2263.3	2265.1
12.5°	2421.0	2398.7	2396.8	2374.6	2404.3	2350.5	2361.6	2346.8	2352.3	2359.7
15°	2523.0	2513.7	2556.4	2530.4	2491.5	2467.3	2493.3	2452.5	2472.9	2469.2
17.5°	2725.2	2723.4	2691.8	2649.1	2626.9	2591.6	2586.1	2569.4	2584.2	2576.8
20°	2866.2	2886.6	2892.2	2842.1	2756.7	2717.8	2708.5	2695.5	2712.2	2706.7
22.5°	3081.4	3049.9	3074.0	2986.8	2955.2	2862.5	2829.1	2810.5	2890.3	2869.9
25°	3218.7	3252.1	3228.0	3198.3	3127.8	3012.8	2988.6	3029.5	3061.0	3038.7
27.5°	3528.5	3495.1	3472.8	3383.8	3337.4	3216.8	3189.0	3174.2	3181.6	3194.6
30°	3764.1	3782.6	3732.6	3669.5	3552.6	3430.2	3365.2	3352.2	3326.3	3304.0
32.5°	4099.9	4072.0	4042.4	4001.5	3901.4	3740.0	3676.9	3628.7	3550.7	3446.9
35°	4261.3	4341.0	4318.8	4209.3	4133.3	4072.0	4053.5	3979.3	3914.4	3751.1
37.5°	4530.3	4563.7	4532.1	4496.9	4461.6	4396.7	4374.4	4394.8	4266.8	3997.8
40°	4704.6	4775.1	4840.1	4741.8	4734.3	4747.3	4610.0	4585.9	4322.5	4181.5
42.5°	5060.8	5090.5	5103.5	5099.8	5142.5	5142.5	4880.9	4828.9	4641.6	4526.6
45°	5532.0	5556.2	5602.5	5635.9	5587.7	5611.8	5238.9	5218.5	5051.6	5029.3
47.5°	5940.2	5997.7	6101.6	6199.9	6263.0	6181.3	5773.2	5628.5	5585.8	5719.4
50°	6296.4	6227.7	6470.7	6570.9	6847.3	6982.8	6363.1	6305.6	6237.0	6493.0
52.5°	6331.6	6424.4	6767.6	6967.9	7537.5	7787.9	7086.7	7062.5	6979.1	7274.0
55°	6583.9	6572.8	6917.8	7351.9	8029.1	8450.2	8029.1	8014.2	7832.4	8112.6
57.5°	6541.2	6654.4	6927.1	7533.7	8472.5	9160.7	9121.8	9019.7	8765.6	8993.7
60°	6396.5	6426.2	6758.3	7528.2	8730.3	9889.8	10301.6	10322.0	9802.6	9984.4
62.5°	5576.6	5645.2	6066.3	6936.4	8546.7	10392.5	11453.7	11381.3	10965.8	10758.0
65°	4435.7	4367.0	4804.8	5745.4	7403.9	10036.3	11958.3	12227.3	11574.3	11193.9
67.5°	2719.6	2702.9	3124.1	3953.3	5539.5	8541.1	11555.7	11765.3	11405.4	11101.2
70°	1400.6	1358.0	1621.4	2205.8	3482.1	6266.7	10056.7	10262.7	10605.9	9956.6
72.5°	653.0	643.7	784.7	1085.3	1773.5	3684.3	7787.9	7936.3	8659.8	8394.5
75°	384.0	389.6	469.4	567.7	864.5	1736.4	5168.4	5456.0	6240.7	6049.6
77.5°	287.5	287.5	333.9	395.1	504.6	671.6	2550.8	2931.1	3649.1	3281.8
80°	211.5	215.2	256.0	296.8	350.6	346.9	1012.9	1187.3	1673.3	1430.3
82.5°	165.1	170.7	198.5	220.8	246.7	209.6	415.6	447.1	688.3	547.3
85°	115.0	118.7	155.8	150.3	150.3	116.9	172.5	181.8	272.7	259.7
87.5°	27.8	31.5	76.1	83.5	63.1	35.2	53.8	61.2	98.3	113.2
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°
2127.9	0°	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9	2127.9
2165.0	2.5°	2137.1	2144.5	2176.1	2159.4	2168.7	2129.7	2161.2	2135.3	2157.5	2146.4
2181.7	5°	2196.5	2179.8	2198.3	2185.4	2185.4	2200.2	2222.5	2205.8	2239.2	2224.3
2194.6	7.5°	2220.6	2222.5	2233.6	2235.5	2226.2	2272.6	2274.4	2268.8	2300.4	2293.0
2283.7	10°	2280.0	2281.8	2302.2	2313.4	2304.1	2320.8	2302.2	2287.4	2285.5	2278.1
2354.2	12.5°	2374.6	2393.1	2389.4	2398.7	2400.6	2330.1	2287.4	2215.0	2205.8	2215.0
2458.1	15°	2461.8	2454.4	2458.1	2476.6	2398.7	2285.5	2209.5	2148.3	2152.0	2153.8
2593.5	17.5°	2565.7	2571.2	2576.8	2491.5	2348.6	2215.0	2148.3	2148.3	2129.7	2137.1
2688.1	20°	2684.4	2662.1	2613.9	2493.3	2261.4	2133.4	2113.0	2113.0	2090.7	2075.9
2790.1	22.5°	2777.2	2732.6	2660.3	2435.8	2183.5	2101.9	2051.8	2016.5	1990.6	1960.9
2903.3	25°	2836.5	2812.4	2671.4	2376.4	2126.0	2018.4	1944.2	1890.4	1857.0	1818.0
2992.3	27.5°	2927.4	2881.0	2702.9	2307.8	2062.9	1934.9	1819.9	1736.4	1673.3	1632.5
3127.8	30°	3049.9	2983.1	2680.7	2209.5	1966.5	1790.2	1654.8	1547.2	1474.8	1441.4
3255.8	32.5°	3150.0	3062.8	2662.1	2120.4	1858.9	1643.7	1463.7	1354.3	1313.4	1270.8
3471.0	35°	3341.1	3168.6	2649.1	2070.3	1762.4	1497.1	1307.9	1213.3	1161.3	1098.2
3599.0	37.5°	3487.7	3352.2	2617.6	1966.5	1638.1	1354.3	1189.1	1103.8	1025.9	959.1
3895.8	40°	3717.7	3608.3	2619.5	1819.9	1491.5	1231.8	1096.4	1007.3	909.0	851.5
4335.5	42.5°	4150.0	3860.6	2630.6	1703.0	1326.4	1131.6	1012.9	907.2	808.8	760.6
4836.4	45°	4680.5	4207.5	2562.0	1597.3	1157.6	1037.0	912.7	807.0	743.9	708.7
5517.2	47.5°	5290.9	4547.0	2469.2	1398.8	1016.6	936.8	820.0	758.8	712.4	692.0
6394.7	50°	5973.6	5033.0	2443.2	1217.0	907.2	851.5	775.5	729.1	697.5	673.4
7383.5	52.5°	6852.9	5598.8	2391.3	1029.6	812.6	782.9	758.8	727.2	699.4	679.0
8305.5	55°	7693.3	6225.9	2335.6	875.6	745.8	749.5	762.5	734.6	710.5	679.0
9338.8	57.5°	8639.4	6865.9	2129.7	762.5	695.7	732.8	758.8	727.2	703.1	679.0
10396.2	60°	9223.8	7225.8	1727.1	664.1	651.2	701.2	736.5	703.1	677.1	686.4
10882.3	62.5°	9461.2	7036.6	1302.3	602.9	619.6	658.6	701.2	688.3	669.7	705.0
10876.7	65°	9056.8	6600.6	931.3	551.0	577.0	615.9	669.7	684.5	690.1	758.8
9990.0	67.5°	8058.8	5747.2	684.5	508.3	532.4	589.9	692.0	716.1	712.4	797.7
8383.4	70°	6448.5	4495.0	534.3	473.1	515.7	610.3	723.5	723.5	697.5	797.7
6394.7	72.5°	4691.7	3168.6	460.1	432.2	473.1	560.3	719.8	717.9	684.5	729.1
4072.0	75°	2840.2	1844.0	406.3	391.4	406.3	480.5	688.3	677.1	630.7	627.0
1959.0	77.5°	1415.5	927.6	332.1	346.9	354.3	402.6	604.8	621.5	558.4	543.6
773.6	80°	597.4	404.4	276.4	298.7	298.7	339.5	502.7	513.9	463.8	436.0
306.1	82.5°	272.7	231.9	235.6	259.7	243.0	263.4	398.9	411.8	376.6	330.2
129.9	85°	115.0	131.7	179.9	204.1	179.9	170.7	274.6	289.4	244.9	204.1
55.7	87.5°	51.9	72.4	113.2	148.4	90.9	79.8	146.6	152.1	122.4	90.9
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>
2127.9
2126.0
2203.9
2281.8
2278.1
2218.8
2179.8
2139.0
2053.6
1944.2
1825.5
1651.1
1460.0
1268.9
1092.7
961.0
857.1
764.3
716.1
688.3
677.1
677.1
677.1
677.1
679.0
695.7
758.8
803.3
781.0
703.1
619.6
534.3
426.7
322.8
205.9
85.3
0.0

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