

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: P477715

Luminaire Tested: **IFLD-L-SA7C-730-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477715  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-730-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

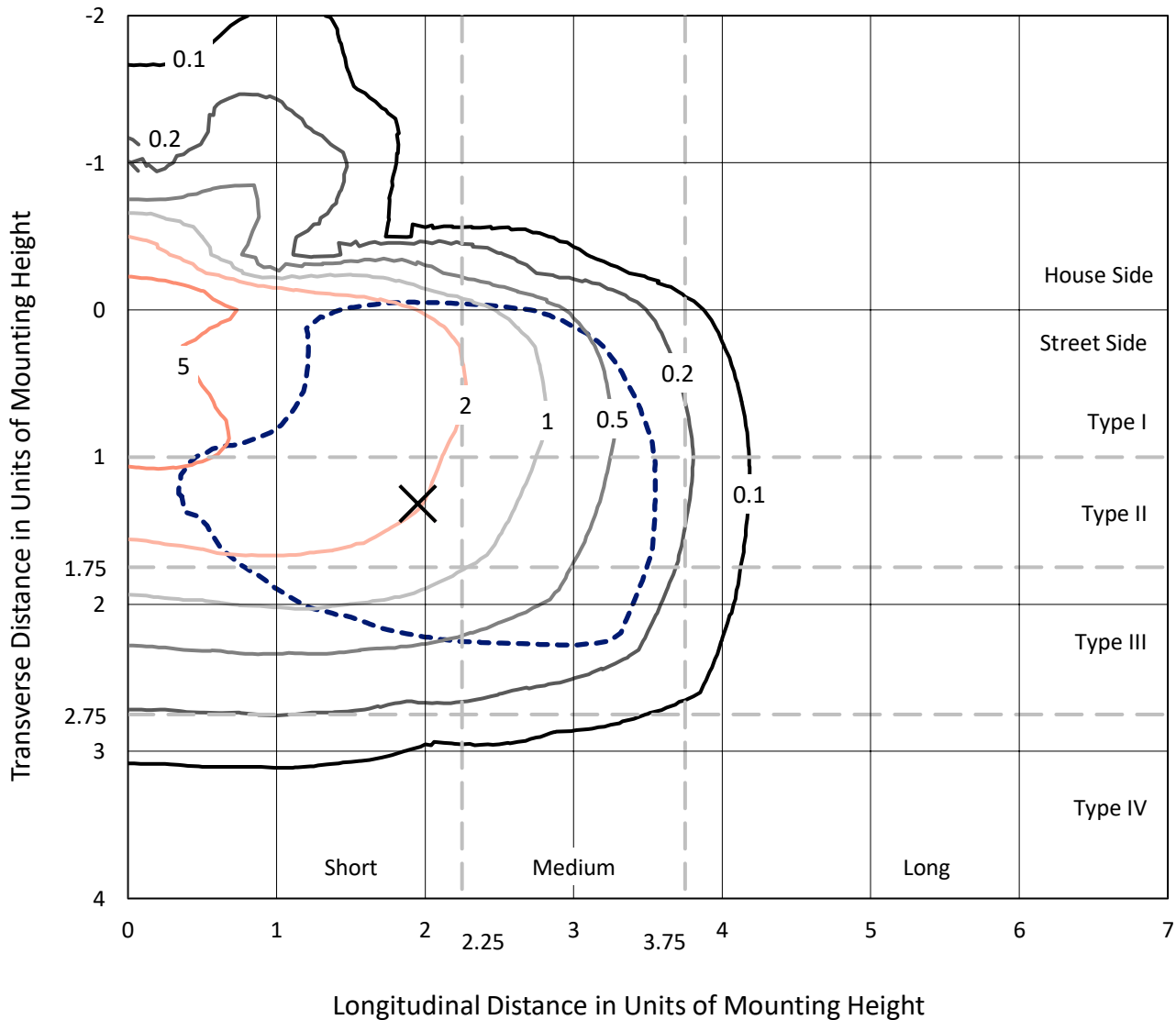
Lumens per Lamp: N/A  
Luminaire Lumens: 39653.1 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
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

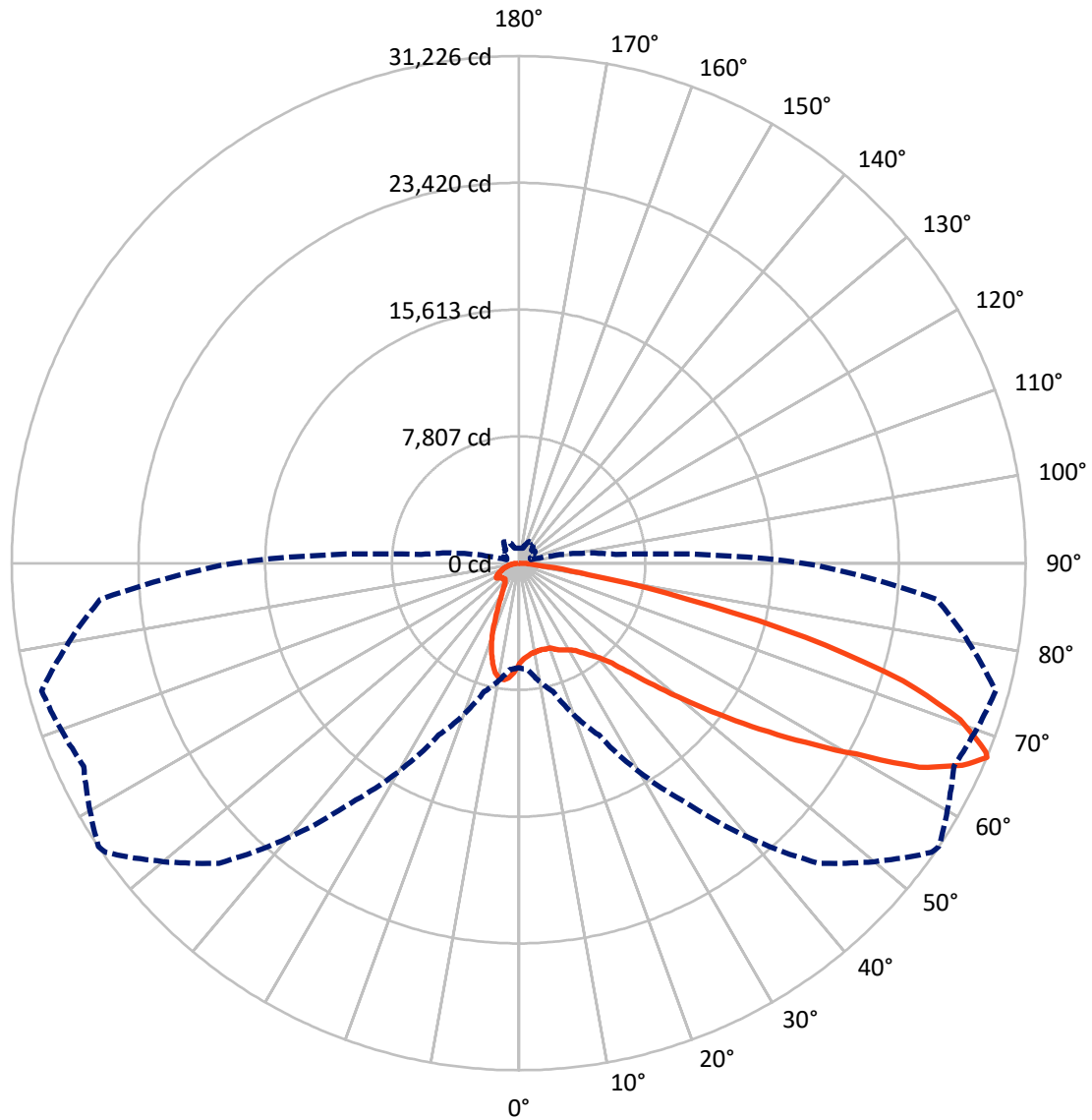
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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
<b>House Side</b>	Lumens	6277.5	0.0	6277.5
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	33375.6	0.0	33375.6
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	39653.1	0.0	39653.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.4	1.5
10°-20°	1621.6	4.1
20°-30°	2543.1	6.4
30°-40°	3630.3	9.2
40°-50°	5479.2	13.8
50°-60°	8722.0	22.0
60°-70°	11150.4	28.1
70°-80°	5436.5	13.7
80°-90°	475.6	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°	39653.1	100.0
0°-180°	39653.1	100.0

**Coefficient of Utilization**

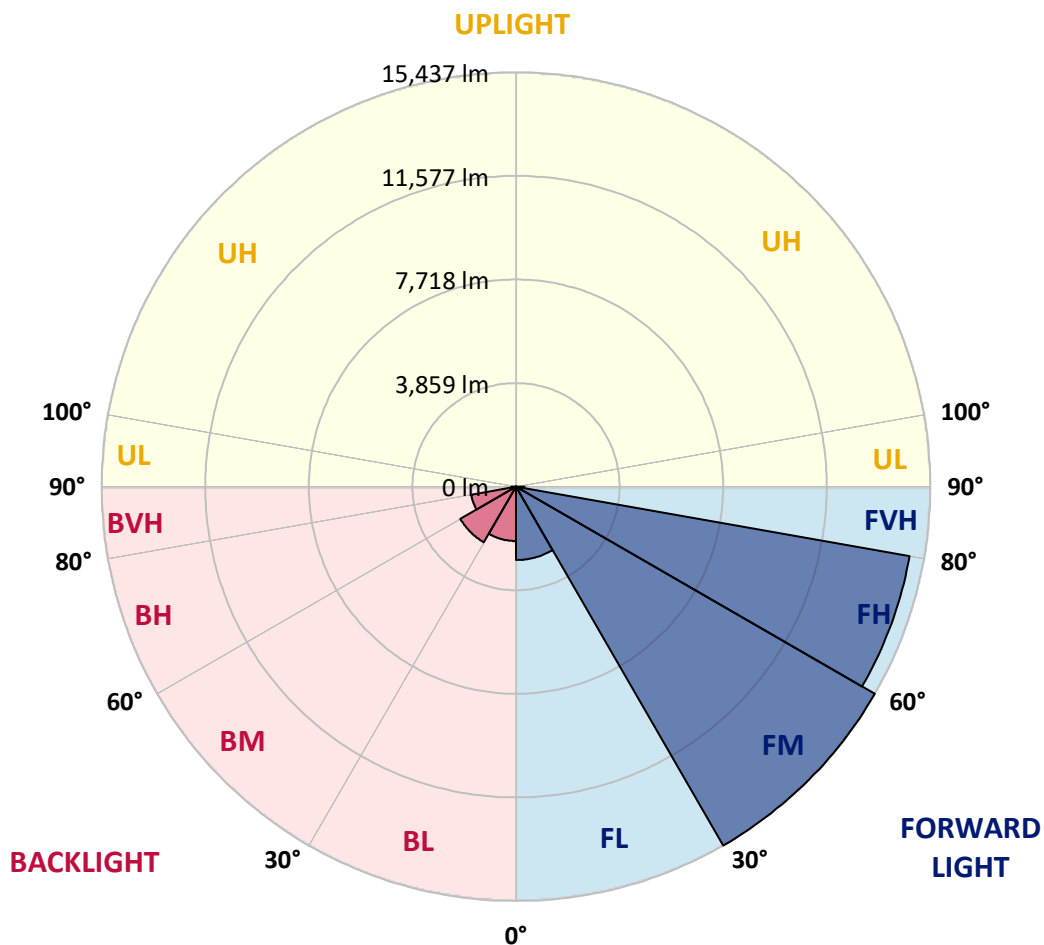


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.5	6.9			
FM (30°-60°)	15436.6	38.9			
FH (60°-80°)	14890.6	37.6			G5
FVH (80°-90°)	315.8	0.8			G3/500
BL (0°-30°)	2026.5	5.1	B3/2500		
BM (30°-60°)	2394.9	6.0	B2/2500		
BH (60°-80°)	1696.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	159.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9
2.5°	5667.8	5644.5	5672.4	5644.5	5770.1	5844.4	5867.7	5900.2	6016.5	6128.1
5°	5430.6	5328.3	5439.9	5477.1	5486.4	5612.0	5742.2	5765.4	5825.8	6007.2
7.5°	5035.4	5151.7	5109.8	5221.4	5337.6	5463.2	5677.1	5616.6	5839.8	6011.8
10°	4951.7	4961.0	5007.5	5049.4	5151.7	5314.4	5612.0	5574.8	5802.6	6169.9
12.5°	5035.4	5035.4	5021.5	4988.9	5105.2	5263.3	5500.4	5519.0	5877.0	6216.4
15°	5328.3	5384.1	5235.4	5258.6	5212.1	5263.3	5472.5	5514.3	5904.9	6253.6
17.5°	6044.4	6025.8	5849.1	5602.7	5398.1	5365.5	5509.7	5556.2	5877.0	6360.5
20°	6741.8	6704.6	6397.7	6142.0	5737.5	5546.9	5570.1	5574.8	5923.5	6430.3
22.5°	7518.3	7615.9	7281.1	6760.4	6258.2	5784.0	5691.0	5765.4	6030.4	6467.5
25°	8736.4	8527.2	8238.9	7555.5	6746.4	6151.3	5890.9	5928.1	6132.7	6560.5
27.5°	9615.2	9531.5	9080.5	8527.2	7429.9	6439.6	5997.9	6067.6	6318.7	6555.8
30°	10461.4	10461.4	10187.1	9359.5	8150.6	6923.1	6225.7	6193.2	6230.4	6546.5
32.5°	11451.8	11316.9	10921.7	10373.1	9057.3	7364.8	6407.0	6416.3	6416.3	6718.6
35°	11972.5	12191.0	11926.0	11033.3	9750.0	8099.5	6844.1	6774.3	6723.2	6909.2
37.5°	12735.0	12865.2	12586.2	12060.8	10610.2	8694.6	7230.0	7174.2	6876.6	7058.0
40°	13195.3	13172.1	13162.8	12921.0	11749.3	9396.7	7797.2	7653.1	7253.2	7583.4
42.5°	13455.7	13409.2	13981.1	13832.3	12823.4	10428.9	8508.6	8429.6	7987.9	8517.9
45°	13748.6	14092.7	14562.3	14980.7	14074.1	11879.5	9712.8	9601.3	9206.0	9880.2
47.5°	14004.3	14427.4	15027.2	15473.6	15203.9	13455.7	11200.7	11228.6	10968.2	11661.0
50°	14432.1	14473.9	15287.6	16189.6	16398.8	14911.0	13200.0	13153.5	13037.2	14009.0
52.5°	14301.9	14427.4	15455.0	16608.1	16952.1	16450.0	15348.1	15487.5	15334.1	16556.9
55°	12181.7	12558.3	15352.7	17049.8	18263.3	18188.9	18109.9	18016.9	18007.6	19421.0
57.5°	11219.3	11526.2	13525.4	17538.0	19667.5	20216.1	20727.5	20829.8	20825.2	22531.6
60°	10586.9	10903.1	12786.2	17273.0	20862.4	22871.0	23852.0	23866.0	23838.1	25856.0
62.5°	9350.2	9657.0	11507.6	15822.3	21192.5	25321.3	27506.5	27687.9	26409.3	28720.1
65°	7862.3	8113.4	9745.4	13604.5	20313.7	26878.9	30254.4	30040.5	28575.9	30356.7
67°	6430.3	6597.7	8187.8	11679.6	18016.9	26130.3	31049.5	31226.2	29575.6	30426.4
67.5°	6021.1	6174.6	7676.4	11024.0	17142.8	25563.0	31077.4	31049.5	29594.2	30440.4
70°	4179.9	4245.0	5230.7	7583.4	12628.1	21597.0	28808.4	28873.5	28352.8	28789.8
72.5°	2771.1	2868.8	3496.4	4779.7	7443.9	15715.4	24079.8	24777.3	24447.2	23605.6
75°	1785.4	1841.2	2287.6	2845.5	3663.8	8950.3	17789.1	18254.0	17496.1	14599.5
77.5°	999.6	1060.1	1380.9	1729.6	1785.4	3724.3	9991.8	10568.4	8955.0	6202.5
80°	623.0	702.1	1041.5	1027.5	850.9	1367.0	4119.5	4412.4	3580.1	2134.1
82.5°	469.6	530.0	804.4	720.7	478.9	609.1	1543.6	1655.2	1311.2	823.0
85°	320.8	404.5	581.2	446.4	251.1	292.9	613.7	660.2	599.8	399.9
87.5°	116.2	172.0	302.2	223.2	111.6	88.3	199.9	223.2	213.9	181.3
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°
6169.9	0°	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9	6169.9
6225.7	2.5°	6314.0	6379.1	6411.7	6602.3	6681.4	6667.4	6686.0	6713.9	6741.8	6779.0
6304.7	5°	6365.2	6565.1	6672.1	6895.2	7044.0	6978.9	7062.6	7039.4	7006.8	7002.2
6448.9	7.5°	6532.6	6788.3	7109.1	7169.6	7234.6	7071.9	6932.4	6741.8	6695.3	6532.6
6569.8	10°	6830.1	7039.4	7429.9	7453.2	7164.9	6746.4	6434.9	6039.7	6035.1	5797.9
6755.7	12.5°	7113.8	7350.9	7667.1	7532.2	6844.1	6272.2	5765.4	5333.0	5151.7	5030.8
6867.3	15°	7290.4	7681.0	7848.4	7267.2	6281.5	5509.7	4854.1	4389.1	4203.2	4114.8
7006.8	17.5°	7453.2	7997.2	7922.8	6802.2	5588.7	4723.9	3942.8	3538.3	3487.1	3422.0
7230.0	20°	7676.4	8113.4	7657.8	6197.8	4803.0	3710.3	3212.8	3017.5	3064.0	3091.9
7253.2	22.5°	7885.6	8173.9	7323.0	5537.6	3794.0	2938.5	2692.1	2733.9	2803.7	2896.6
7309.0	25°	7978.6	8271.5	6872.0	4626.3	2887.3	2473.5	2417.7	2487.5	2603.7	2608.4
7388.1	27.5°	8039.0	8201.7	6328.0	3738.2	2282.9	2162.0	2245.7	2296.9	2310.8	2366.6
7555.5	30°	8146.0	8057.6	5639.9	2673.5	1915.6	1920.3	2027.2	2027.2	2027.2	2069.0
7722.8	32.5°	8331.9	7960.0	4835.5	1952.8	1650.6	1799.4	1771.5	1762.2	1743.6	1692.4
7936.7	35°	8448.2	7694.9	3817.3	1446.0	1483.2	1650.6	1641.3	1497.1	1255.4	1134.5
8480.7	37.5°	8689.9	7560.1	2808.3	1115.9	1385.6	1576.2	1525.0	1176.3	911.3	795.1
9154.9	40°	9210.7	7471.8	1943.5	976.4	1320.5	1539.0	1362.3	1004.3	697.4	492.8
10196.4	42.5°	9847.7	7476.4	1320.5	920.6	1325.1	1618.0	1311.2	860.2	492.8	395.2
11586.6	45°	10703.2	7406.7	906.7	920.6	1408.8	1748.2	1343.7	781.1	478.9	502.1
13330.2	47.5°	11623.8	7467.1	674.2	836.9	1422.8	1752.9	1227.5	767.2	460.3	581.2
15227.2	50°	12697.8	7527.6	557.9	771.8	1427.4	1697.1	1129.8	748.6	478.9	613.7
17403.1	52.5°	13804.4	7718.2	474.3	730.0	1483.2	1673.8	1129.8	776.5	478.9	534.7
20174.3	55°	15455.0	8206.4	683.5	911.3	1687.8	1827.3	1390.2	1088.0	669.5	688.1
22829.1	57.5°	17277.6	8708.5	762.5	957.8	1734.3	1645.9	1497.1	1199.6	706.7	711.4
24893.5	60°	18477.2	8727.1	757.9	934.6	1622.7	1422.8	1464.6	1264.7	720.7	609.1
26172.1	62.5°	18956.1	8159.9	790.4	934.6	1511.1	1329.8	1501.8	1362.3	743.9	762.5
26534.8	65°	18412.1	6988.2	762.5	836.9	1329.8	1190.3	1511.1	1380.9	813.7	767.2
25883.9	67°	17561.2	6021.1	776.5	795.1	1236.8	1129.8	1590.1	1450.6	943.9	920.6
25544.4	67.5°	17319.4	5765.4	771.8	771.8	1204.2	1111.2	1608.7	1450.6	962.4	953.2
22545.5	70°	15264.4	4672.8	790.4	762.5	1064.7	1055.4	1711.0	1529.7	1106.6	1115.9
16561.6	72.5°	11619.1	3542.9	785.8	762.5	925.3	1008.9	1725.0	1580.8	1204.2	1115.9
9275.8	75°	6602.3	2120.2	692.8	664.9	730.0	878.8	1613.4	1506.4	1171.7	999.6
3705.7	77.5°	2729.3	1092.6	637.0	599.8	604.4	716.0	1343.7	1404.2	1115.9	850.9
1236.8	80°	1018.2	655.6	511.4	478.9	465.0	525.4	957.8	1120.5	953.2	697.4
544.0	82.5°	530.0	409.2	348.7	348.7	316.2	334.8	516.1	743.9	720.7	478.9
218.5	85°	269.7	232.5	199.9	195.3	176.7	158.1	260.4	441.7	413.8	265.0
97.6	87.5°	144.1	130.2	83.7	79.0	65.1	41.8	46.5	88.3	144.1	116.2
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>
6169.9
6816.2
7044.0
6588.4
5788.6
5002.9
4096.2
3454.6
3059.4
2845.5
2654.9
2417.7
2115.5
1664.5
1190.3
790.4
478.9
385.9
511.4
646.3
711.4
548.6
725.3
688.1
627.7
771.8
753.2
906.7
934.6
1032.2
990.3
892.7
804.4
637.0
376.6
218.5
83.7
0.0

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