

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: P477951

Luminaire Tested: **IFLD-L-SA7E-830-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477951  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

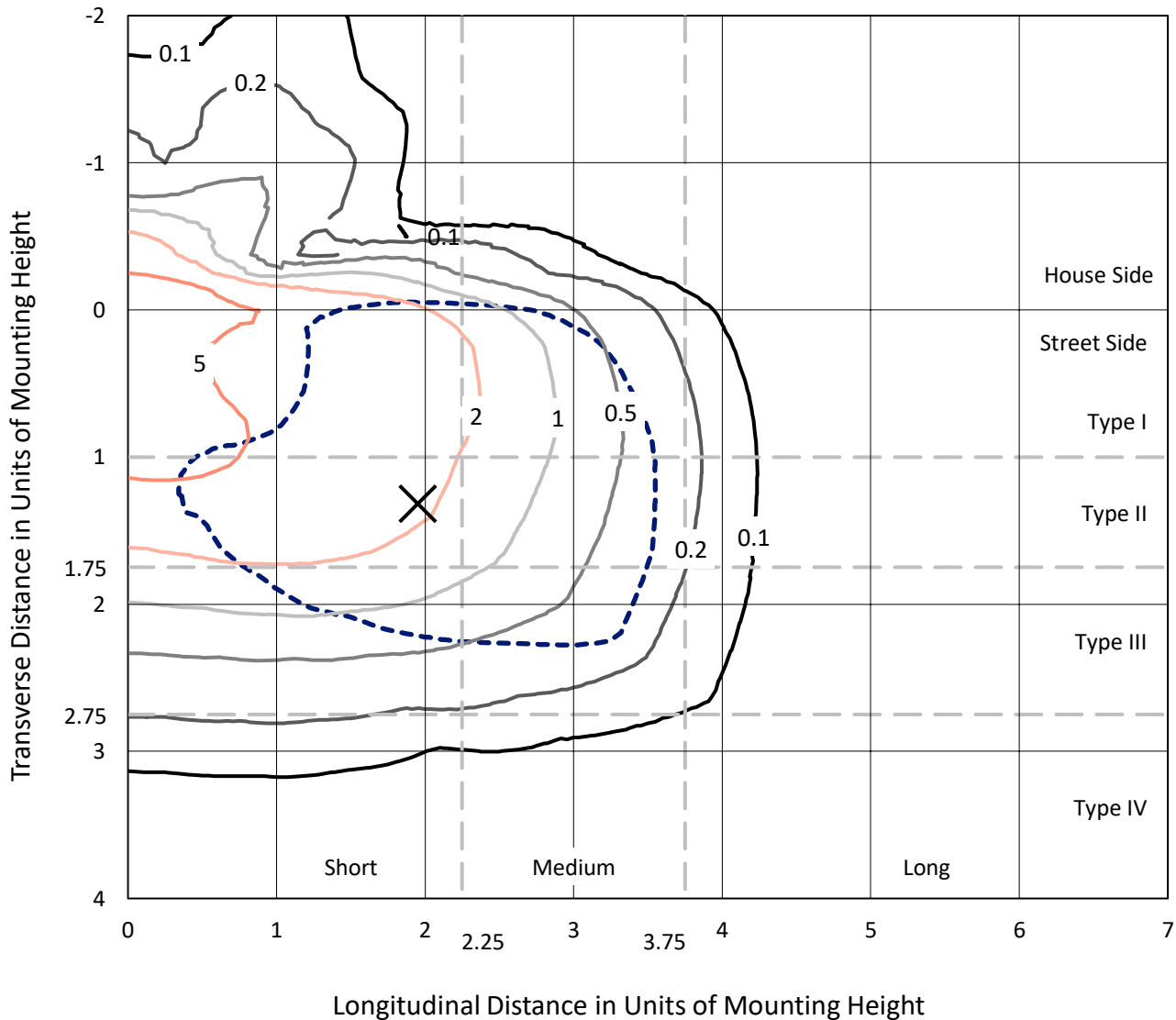
Lumens per Lamp: N/A  
Luminaire Lumens: 44062.2 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7  
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

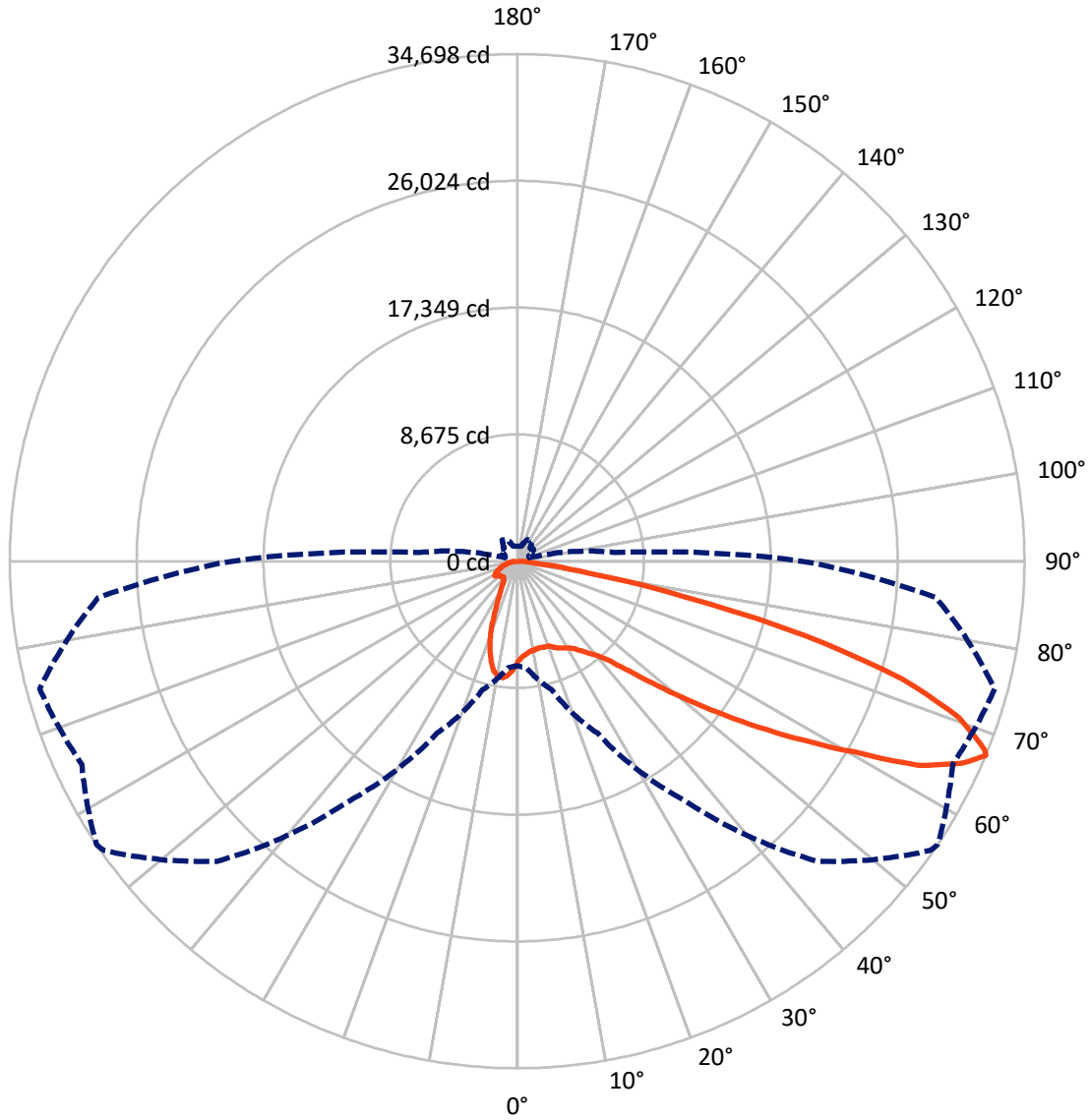
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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	6975.5	0.0	6975.5
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	37086.7	0.0	37086.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	44062.2	0.0	44062.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	660.5	1.5
10°-20°	1801.9	4.1
20°-30°	2825.9	6.4
30°-40°	4034.0	9.2
40°-50°	6088.5	13.8
50°-60°	9691.8	22.0
60°-70°	12390.2	28.1
70°-80°	6041.0	13.7
80°-90°	528.5	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°	44062.2	100.0
0°-180°	44062.2	100.0

**Coefficient of Utilization**

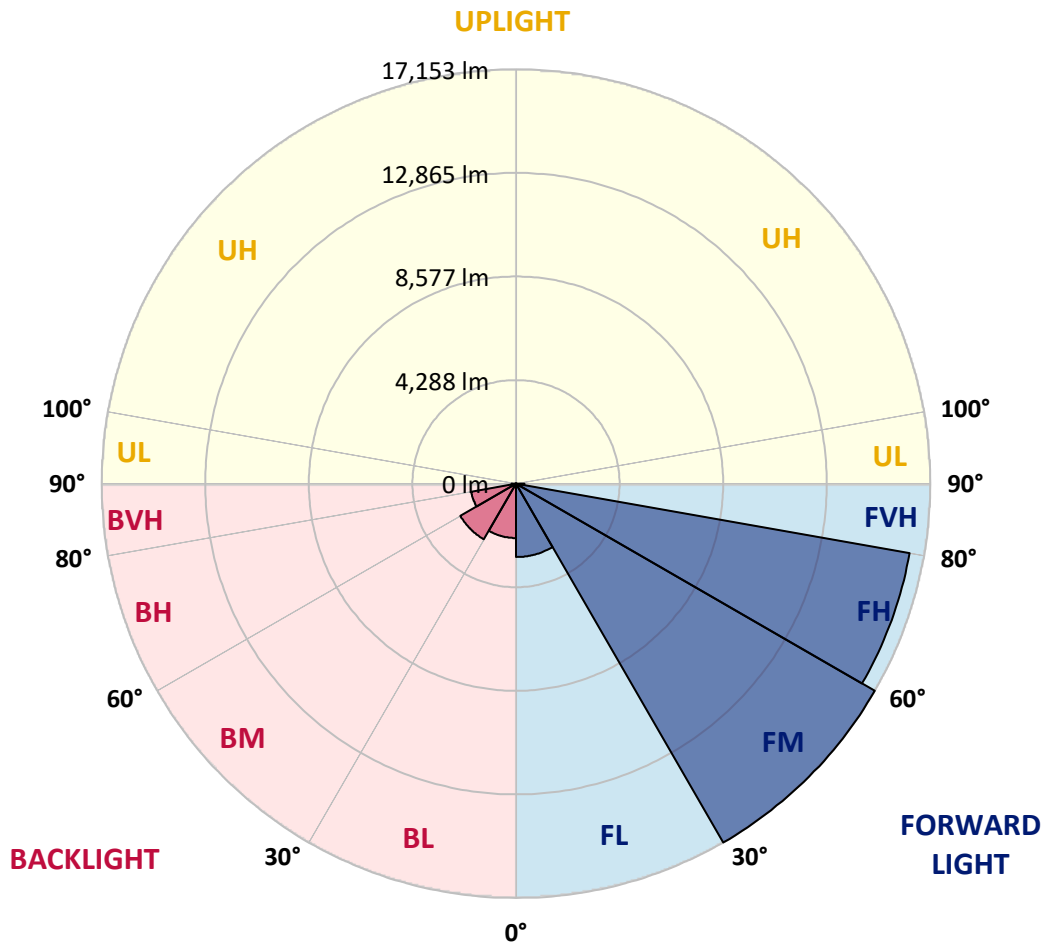


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3036.4	6.9			
FM (30°-60°)	17153.0	38.9			
FH (60°-80°)	16546.3	37.6			G5
FVH (80°-90°)	351.0	0.8			G3/500
BL (0°-30°)	2251.9	5.1	B3/2500		
BM (30°-60°)	2661.2	6.0	B3/5000		
BH (60°-80°)	1884.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	177.5	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°	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0
2.5°	6298.0	6272.1	6303.1	6272.1	6411.6	6494.3	6520.1	6556.3	6685.5	6809.5
5°	6034.5	5920.8	6044.8	6086.2	6096.5	6236.0	6380.6	6406.5	6473.6	6675.1
7.5°	5595.3	5724.5	5678.0	5802.0	5931.2	6070.7	6308.3	6241.1	6489.1	6680.3
10°	5502.3	5512.7	5564.3	5610.8	5724.5	5905.3	6236.0	6194.7	6447.8	6856.0
12.5°	5595.3	5595.3	5579.8	5543.7	5672.8	5848.5	6112.0	6132.7	6530.5	6907.6
15°	5920.8	5982.8	5817.5	5843.3	5791.7	5848.5	6081.0	6127.5	6561.5	6949.0
17.5°	6716.5	6695.8	6499.5	6225.6	5998.3	5962.2	6122.3	6174.0	6530.5	7067.8
20°	7491.4	7450.1	7109.1	6825.0	6375.5	6163.7	6189.5	6194.7	6582.1	7145.3
22.5°	8354.3	8462.7	8090.8	7512.1	6954.1	6427.1	6323.8	6406.5	6701.0	7186.6
25°	9707.9	9475.4	9155.1	8395.6	7496.6	6835.3	6546.0	6587.3	6814.6	7290.0
27.5°	10684.4	10591.4	10090.2	9475.4	8256.1	7155.6	6664.8	6742.3	7021.3	7284.8
30°	11624.7	11624.7	11319.8	10400.2	9056.9	7692.9	6918.0	6881.8	6923.1	7274.5
32.5°	12725.1	12575.3	12136.1	11526.5	10064.4	8183.8	7119.5	7129.8	7129.8	7465.6
35°	13303.8	13546.6	13252.1	12260.1	10834.2	9000.1	7605.1	7527.6	7470.8	7677.4
37.5°	14151.1	14295.7	13985.8	13401.9	11790.0	9661.4	8033.9	7971.9	7641.3	7842.8
40°	14662.6	14636.7	14626.4	14357.7	13055.8	10441.5	8664.2	8504.1	8059.8	8426.6
42.5°	14951.9	14900.2	15535.7	15370.4	14249.2	11588.5	9454.7	9366.9	8876.1	9465.1
45°	15277.4	15659.7	16181.5	16646.5	15639.0	13200.4	10792.8	10668.9	10229.7	10978.8
47.5°	15561.5	16031.7	16698.2	17194.2	16894.5	14951.9	12446.1	12477.1	12187.8	12957.6
50°	16036.9	16083.4	16987.5	17989.8	18222.3	16569.0	14667.7	14616.1	14486.9	15566.7
52.5°	15892.2	16031.7	17173.5	18454.8	18837.1	18279.1	17054.7	17209.7	17039.2	18398.0
55°	13536.3	13954.8	17059.8	18945.6	20294.1	20211.4	20123.6	20020.2	20009.9	21580.5
57.5°	12466.8	12807.8	15029.4	19488.1	21854.4	22464.0	23032.3	23146.0	23140.8	25036.9
60°	11764.2	12115.5	14207.9	19193.6	23182.1	25414.1	26504.2	26519.7	26488.7	28731.0
62.5°	10389.9	10730.8	12787.1	17581.6	23549.0	28136.8	30565.1	30766.6	29345.8	31913.6
65°	8736.6	9015.6	10829.0	15117.2	22572.5	29867.6	33618.5	33380.8	31753.4	33732.2
67°	7145.3	7331.3	9098.2	12978.3	20020.2	29035.8	34502.0	34698.3	32864.2	33809.7
67.5°	6690.6	6861.1	8529.9	12249.8	19048.9	28405.5	34533.0	34502.0	32884.9	33825.2
70°	4644.7	4717.0	5812.3	8426.6	14032.3	23998.5	32011.7	32084.1	31505.4	31991.1
72.5°	3079.2	3187.7	3885.2	5311.2	8271.6	17462.8	26757.4	27532.4	27165.5	26230.4
75°	1983.9	2045.9	2541.9	3161.9	4071.2	9945.5	19767.1	20283.7	19441.6	16222.9
77.5°	1110.8	1178.0	1534.5	1921.9	1983.9	4138.4	11102.8	11743.5	9950.7	6892.1
80°	692.3	780.1	1157.3	1141.8	945.5	1519.0	4577.5	4903.0	3978.2	2371.4
82.5°	521.8	589.0	893.8	800.8	532.2	676.8	1715.3	1839.3	1457.0	914.5
85°	356.5	449.5	645.8	496.0	279.0	325.5	682.0	733.6	666.5	444.3
87.5°	129.2	191.2	335.8	248.0	124.0	98.2	222.2	248.0	237.7	201.5
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°
6856.0	0°	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0	6856.0
6918.0	2.5°	7016.1	7088.5	7124.6	7336.4	7424.3	7408.8	7429.4	7460.4	7491.4	7532.8
7005.8	5°	7073.0	7295.1	7413.9	7661.9	7827.3	7754.9	7847.9	7822.1	7785.9	7780.8
7166.0	7.5°	7259.0	7543.1	7899.6	7966.8	8039.1	7858.3	7703.3	7491.4	7439.8	7259.0
7300.3	10°	7589.6	7822.1	8256.1	8281.9	7961.6	7496.6	7150.5	6711.3	6706.1	6442.6
7506.9	12.5°	7904.8	8168.3	8519.6	8369.8	7605.1	6969.6	6406.5	5926.0	5724.5	5590.2
7630.9	15°	8101.1	8535.1	8721.1	8075.3	6980.0	6122.3	5393.8	4877.2	4670.5	4572.4
7785.9	17.5°	8281.9	8886.4	8803.7	7558.6	6210.1	5249.2	4381.2	3931.7	3874.9	3802.6
8033.9	20°	8529.9	9015.6	8509.2	6887.0	5337.0	4122.9	3570.1	3353.1	3404.7	3435.7
8059.8	22.5°	8762.4	9082.7	8137.3	6153.3	4215.9	3265.2	2991.4	3037.9	3115.4	3218.7
8121.8	25°	8865.7	9191.2	7636.1	5140.7	3208.4	2748.6	2686.6	2764.1	2893.2	2898.4
8209.6	27.5°	8932.9	9113.7	7031.6	4153.9	2536.8	2402.4	2495.4	2552.3	2567.8	2629.8
8395.6	30°	9051.7	8953.6	6267.0	2970.7	2128.6	2133.8	2252.6	2252.6	2252.6	2299.1
8581.6	32.5°	9258.4	8845.1	5373.2	2169.9	1834.1	1999.4	1968.4	1958.1	1937.4	1880.6
8819.2	35°	9387.6	8550.6	4241.7	1606.8	1648.1	1834.1	1823.8	1663.6	1395.0	1260.6
9423.7	37.5°	9656.2	8400.8	3120.6	1240.0	1539.6	1751.4	1694.6	1307.1	1012.6	883.5
10172.9	40°	10234.9	8302.6	2159.6	1085.0	1467.3	1710.1	1513.8	1116.0	775.0	547.7
11330.2	42.5°	10942.7	8307.8	1467.3	1023.0	1472.5	1797.9	1457.0	955.8	547.7	439.2
12875.0	45°	11893.3	8230.3	1007.5	1023.0	1565.5	1942.6	1493.1	868.0	532.2	558.0
14812.4	47.5°	12916.3	8297.4	749.1	930.0	1581.0	1947.8	1364.0	852.5	511.5	645.8
16920.3	50°	14109.7	8364.6	620.0	857.6	1586.1	1885.8	1255.5	831.8	532.2	682.0
19338.3	52.5°	15339.4	8576.4	527.0	811.1	1648.1	1859.9	1255.5	862.8	532.2	594.1
22417.5	55°	17173.5	9118.9	759.5	1012.6	1875.4	2030.4	1544.8	1209.0	744.0	764.6
25367.6	57.5°	19198.8	9676.9	847.3	1064.3	1927.1	1828.9	1663.6	1333.0	785.3	790.5
27661.5	60°	20531.7	9697.5	842.1	1038.5	1803.1	1581.0	1627.5	1405.3	800.8	676.8
29082.3	62.5°	21063.9	9067.2	878.3	1038.5	1679.1	1477.6	1668.8	1513.8	826.6	847.3
29485.3	65°	20459.4	7765.3	847.3	930.0	1477.6	1322.6	1679.1	1534.5	904.1	852.5
28762.0	67°	19513.9	6690.6	862.8	883.5	1374.3	1255.5	1766.9	1612.0	1048.8	1023.0
28384.8	67.5°	19245.3	6406.5	857.6	857.6	1338.1	1234.8	1787.6	1612.0	1069.5	1059.1
25052.4	70°	16961.7	5192.3	878.3	847.3	1183.1	1172.8	1901.3	1699.8	1229.6	1240.0
18403.1	72.5°	12911.1	3936.9	873.1	847.3	1028.1	1121.1	1916.8	1756.6	1338.1	1240.0
10307.2	75°	7336.4	2355.9	769.8	738.8	811.1	976.5	1792.8	1674.0	1302.0	1110.8
4117.7	77.5°	3032.7	1214.1	707.8	666.5	671.6	795.6	1493.1	1560.3	1240.0	945.5
1374.3	80°	1131.5	728.5	568.3	532.2	516.7	583.8	1064.3	1245.1	1059.1	775.0
604.5	82.5°	589.0	454.7	387.5	387.5	351.3	372.0	573.5	826.6	800.8	532.2
242.8	85°	299.7	258.3	222.2	217.0	196.3	175.7	289.3	490.8	459.8	294.5
108.5	87.5°	160.2	144.7	93.0	87.8	72.3	46.5	51.7	98.2	160.2	129.2
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>
6856.0
7574.1
7827.3
7321.0
6432.3
5559.2
4551.7
3838.7
3399.6
3161.9
2950.1
2686.6
2350.8
1849.6
1322.6
878.3
532.2
428.8
568.3
718.1
790.5
609.6
806.0
764.6
697.5
857.6
837.0
<i>1007.5</i>
1038.5
1147.0
1100.5
992.0
893.8
707.8
418.5
242.8
93.0
0.0

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