

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: P477288

Luminaire Tested: **IFLD-L-SA7E-727-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477288  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-727-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

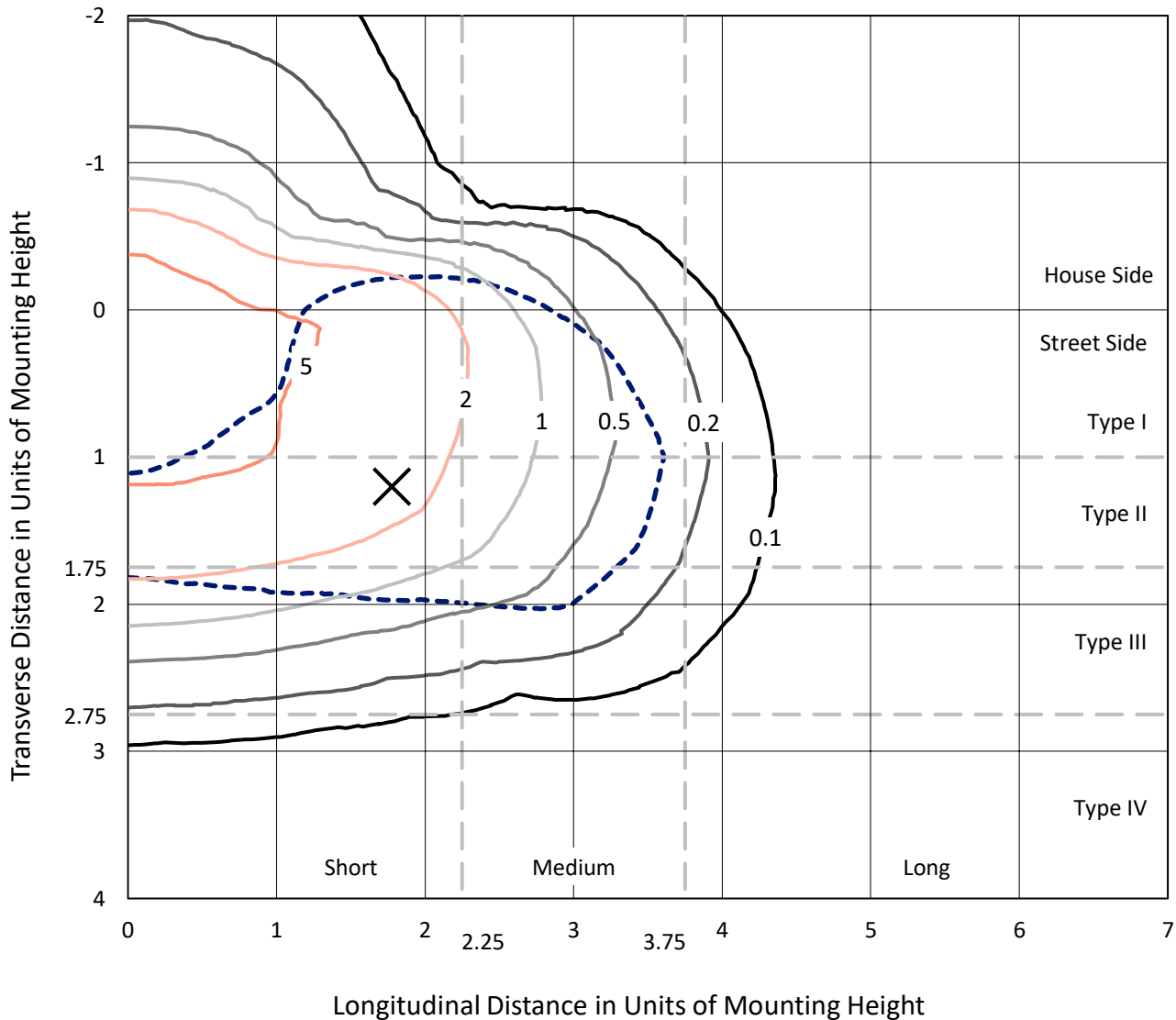
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48084.7 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - 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

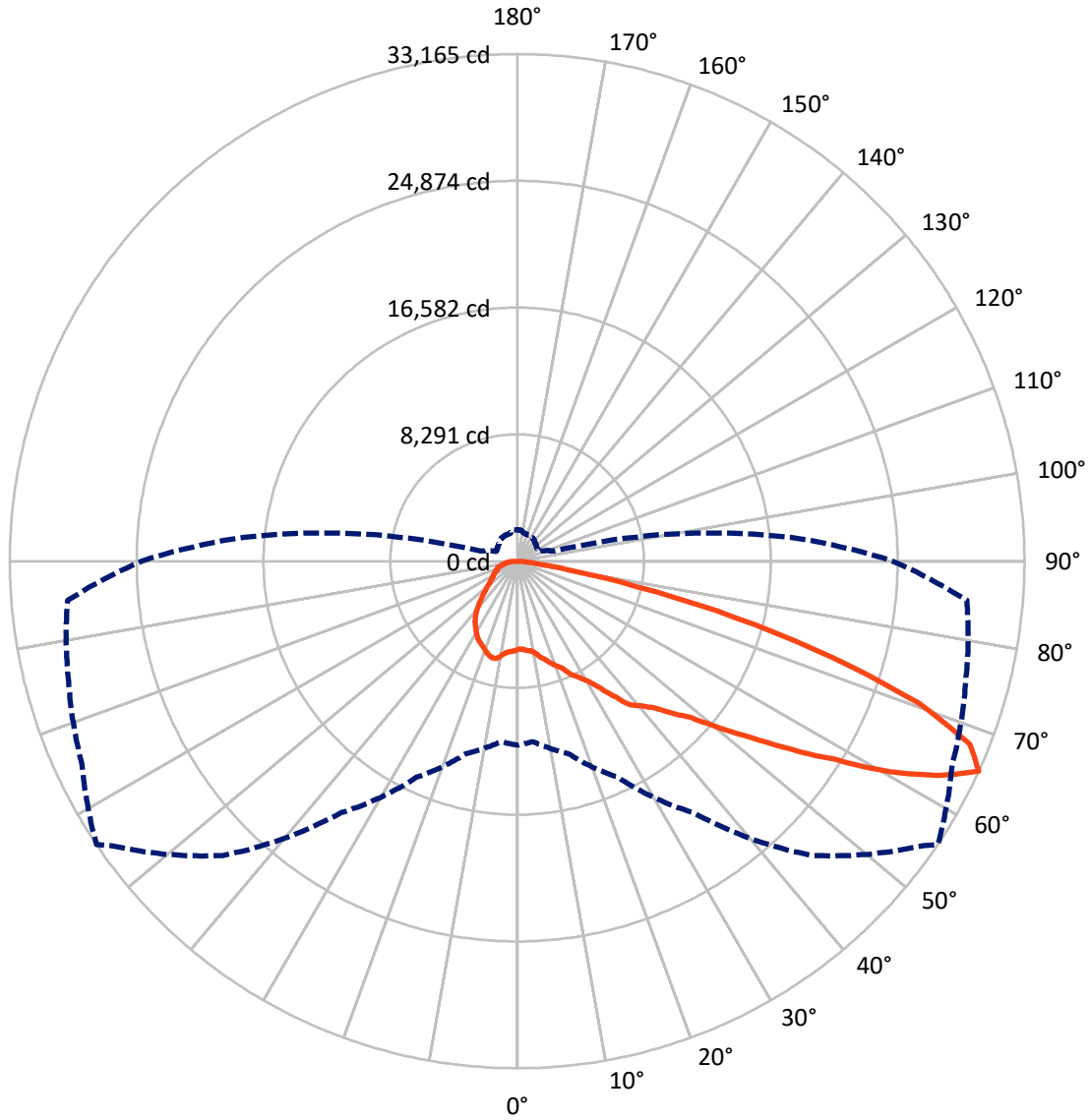
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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
<b>House Side</b>	Lumens	10783.8	0.0	10783.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	37300.8	0.0	37300.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	48084.7	0.0	48084.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.9	1.2
10°-20°	1857.2	3.9
20°-30°	3306.8	6.9
30°-40°	4951.8	10.3
40°-50°	7336.7	15.3
50°-60°	11304.9	23.5
60°-70°	12798.5	26.6
70°-80°	5311.5	11.0
80°-90°	645.3	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°	48084.7	100.0
0°-180°	48084.7	100.0

**Coefficient of Utilization**



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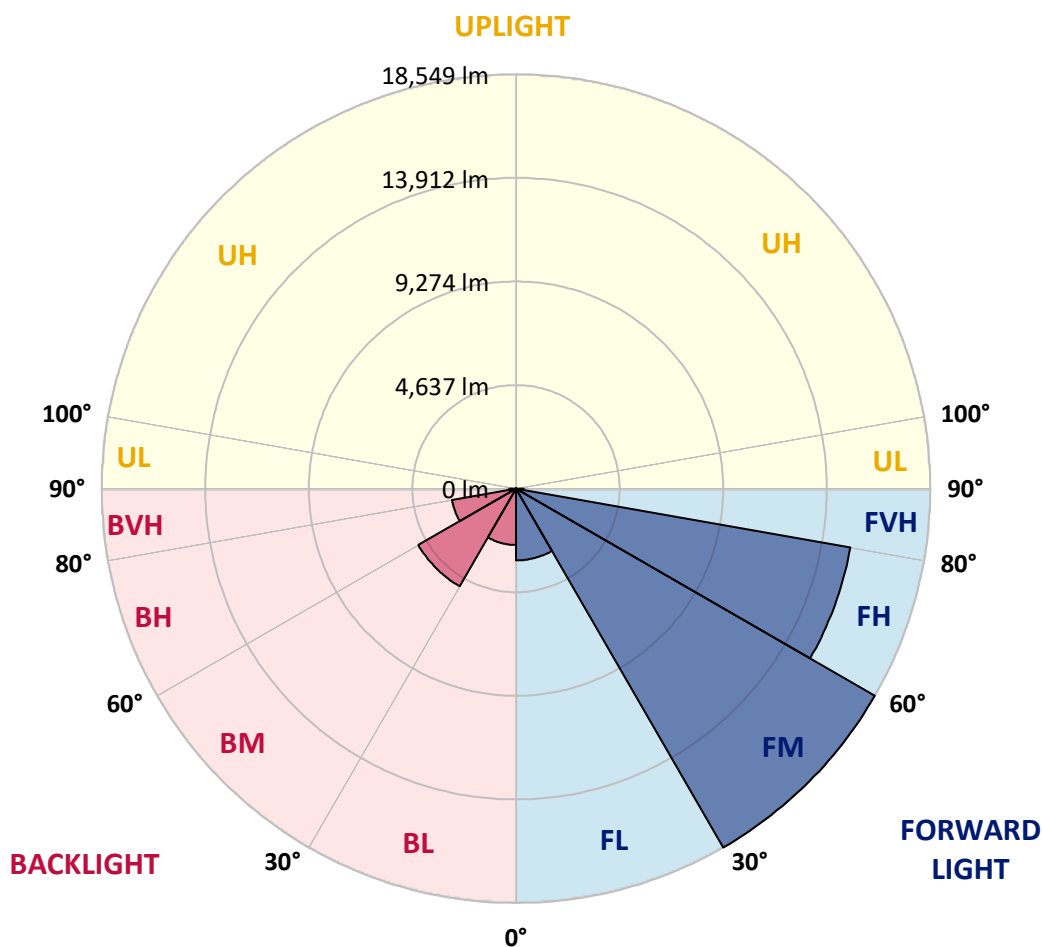
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3213.5	6.7			
FM (30°-60°)	18549.0	38.6			
FH (60°-80°)	15198.0	31.6			G5
FVH (80°-90°)	340.4	0.7			G3/500
BL (0°-30°)	2522.4	5.2	B4/5000		
BM (30°-60°)	5044.5	10.5	B4/8500		
BH (60°-80°)	2912.0	6.1	B4/5000		G4/5000
BVH (80°-90°)	304.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5
2.5°	5620.6	5650.8	5630.6	5691.0	5741.3	5741.3	5781.6	5751.4	5791.7	5847.0
5°	5806.8	5686.0	5751.4	5781.6	5766.5	5791.7	5751.4	5852.0	5786.6	5892.3
7.5°	5852.0	5897.3	5952.7	5902.4	5947.6	5922.5	5927.5	5912.4	5877.2	5962.7
10°	6184.1	6118.7	6244.5	6169.1	6159.0	6148.9	6128.8	6053.3	6138.9	6143.9
12.5°	6566.6	6506.2	6501.2	6440.8	6521.3	6375.4	6405.5	6365.3	6380.4	6400.5
15°	6843.3	6818.2	6933.9	6863.4	6757.8	6692.4	6762.8	6652.1	6707.5	6697.4
17.5°	7391.8	7386.8	7301.2	7185.5	7125.1	7029.5	7014.4	6969.1	7009.4	6989.2
20°	7774.2	7829.6	7844.7	7708.8	7477.3	7371.7	7346.5	7311.3	7356.6	7341.5
22.5°	8357.9	8272.4	8337.8	8101.3	8015.7	7764.1	7673.6	7623.3	7839.6	7784.3
25°	8730.3	8820.8	8755.4	8674.9	8483.7	8171.7	8106.3	8217.0	8302.6	8242.2
27.5°	9570.6	9480.0	9419.6	9178.1	9052.3	8725.2	8649.8	8609.5	8629.6	8664.9
30°	10209.6	10259.9	10124.1	9953.0	9636.0	9303.9	9127.8	9092.6	9022.1	8961.7
32.5°	11120.4	11044.9	10964.4	10853.7	10582.0	10144.2	9973.1	9842.3	9631.0	9349.2
35°	11558.2	11774.5	11714.2	11417.3	11211.0	11044.9	10994.6	10793.3	10617.2	10174.4
37.5°	12287.8	12378.4	12292.8	12197.2	12101.6	11925.5	11865.1	11920.5	11573.3	10843.6
40°	12760.8	12952.0	13128.1	12861.4	12841.3	12876.5	12504.2	12438.7	11724.2	11341.8
42.5°	13726.9	13807.4	13842.6	13832.6	13948.3	13948.3	13238.8	13097.9	12589.7	12277.7
45°	15005.0	15070.4	15196.2	15286.8	15155.9	15221.4	14210.0	14154.6	13701.7	13641.4
47.5°	16112.0	16268.0	16549.8	16816.5	16987.5	16766.1	15659.1	15266.6	15150.9	15513.2
50°	17078.1	16891.9	17551.1	17822.8	18572.6	18939.9	17259.3	17103.3	16917.1	17611.5
52.5°	17173.7	17425.3	18356.2	18899.6	20444.4	21123.7	19221.7	19156.3	18929.8	19729.9
55°	17858.0	17827.9	18763.8	19941.2	21777.9	22920.1	21777.9	21737.6	21244.5	22004.3
57.5°	17742.3	18049.3	18788.9	20434.4	22980.5	24847.3	24741.6	24464.9	23775.5	24394.4
60°	17349.8	17430.3	18331.0	20419.3	23679.9	26824.8	27941.9	27997.2	26588.3	27081.4
62.5°	15125.7	15311.9	16454.2	18814.1	23181.7	28188.4	31066.7	30870.4	29743.3	29179.7
65°	12031.2	11845.0	13032.5	15583.6	20082.1	27222.3	32435.3	33164.9	31393.7	30362.2
67.5°	7376.7	7331.4	8473.6	10722.9	15025.1	23166.7	31343.4	31912.0	30935.8	30110.6
70°	3799.0	3683.3	4397.8	5982.9	9444.8	16997.6	27277.7	27836.2	28767.1	27006.0
72.5°	1771.2	1746.1	2128.5	2943.6	4810.5	9993.3	21123.7	21526.3	23488.7	22769.1
75°	1041.6	1056.7	1273.1	1539.7	2344.8	4709.8	14018.7	14798.7	16927.2	16408.9
77.5°	779.9	779.9	905.7	1071.8	1368.7	1821.5	6918.8	7950.3	9897.7	8901.3
80°	573.6	583.7	694.4	805.1	951.0	941.0	2747.4	3220.4	4538.7	3879.6
82.5°	447.8	462.9	538.4	598.8	669.2	568.6	1127.1	1212.7	1866.8	1484.4
85°	312.0	322.0	422.7	407.6	407.6	317.0	468.0	493.1	739.7	704.5
87.5°	75.5	85.5	206.3	226.4	171.1	95.6	145.9	166.1	266.7	306.9
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°
5771.5	0°	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5	5771.5
5872.2	2.5°	5796.7	5816.8	5902.4	5857.1	5882.2	5776.6	5862.1	5791.7	5852.0	5821.9
5917.5	5°	5957.7	5912.4	5962.7	5927.5	5927.5	5967.8	6028.2	5982.9	6073.4	6033.2
5952.7	7.5°	6023.1	6028.2	6058.4	6063.4	6038.2	6164.0	6169.1	6154.0	6239.5	6219.4
6194.2	10°	6184.1	6189.2	6244.5	6274.7	6249.6	6294.8	6244.5	6204.3	6199.2	6179.1
6385.4	12.5°	6440.8	6491.1	6481.0	6506.2	6511.2	6320.0	6204.3	6008.0	5982.9	6008.0
6667.2	15°	6677.3	6657.1	6667.2	6717.5	6506.2	6199.2	5992.9	5826.9	5836.9	5842.0
7034.5	17.5°	6959.1	6974.1	6989.2	6757.8	6370.3	6008.0	5826.9	5826.9	5776.6	5796.7
7291.2	20°	7281.1	7220.7	7089.9	6762.8	6133.8	5786.6	5731.3	5731.3	5670.9	5630.6
7567.9	22.5°	7532.7	7411.9	7215.7	6606.8	5922.5	5701.1	5565.2	5469.6	5399.2	5318.7
7874.8	25°	7693.7	7628.3	7245.9	6445.8	5766.5	5474.7	5273.4	5127.5	5036.9	4931.2
8116.4	27.5°	7940.3	7814.5	7331.4	6259.6	5595.4	5248.2	4936.2	4709.8	4538.7	4428.0
8483.7	30°	8272.4	8091.2	7271.0	5992.9	5333.8	4855.7	4488.4	4196.6	4000.3	3909.7
8830.9	32.5°	8544.1	8307.6	7220.7	5751.4	5041.9	4458.2	3970.1	3673.3	3562.6	3446.8
9414.6	35°	9062.4	8594.4	7185.5	5615.5	4780.3	4060.7	3547.5	3290.8	3149.9	2978.9
9761.8	37.5°	9459.9	9092.6	7099.9	5333.8	4443.1	3673.3	3225.4	2994.0	2782.6	2601.5
10566.9	40°	10083.8	9787.0	7105.0	4936.2	4045.6	3341.2	2973.8	2732.3	2465.6	2309.6
11759.4	42.5°	11256.3	10471.3	7135.2	4619.2	3597.8	3069.4	2747.4	2460.6	2193.9	2063.1
13118.0	45°	12695.4	11412.2	6949.0	4332.4	3139.9	2812.8	2475.7	2188.9	2017.8	1922.2
14964.7	47.5°	14350.8	12333.1	6697.4	3794.0	2757.5	2541.1	2224.1	2058.0	1932.2	1876.9
17344.8	50°	16202.6	13651.4	6627.0	3300.9	2460.6	2309.6	2103.3	1977.5	1892.0	1826.6
20026.8	52.5°	18587.7	15186.1	6486.1	2792.7	2204.0	2123.4	2058.0	1972.5	1897.0	1841.7
22527.6	55°	20867.1	16886.9	6335.1	2375.0	2022.8	2032.9	2068.1	1992.6	1927.2	1841.7
25330.3	57.5°	23433.3	18622.9	5776.6	2068.1	1886.9	1987.6	2058.0	1972.5	1907.1	1841.7
28198.5	60°	25018.4	19599.1	4684.7	1801.4	1766.2	1902.0	1997.6	1907.1	1836.6	1861.8
29516.8	62.5°	25662.4	19085.8	3532.4	1635.4	1680.6	1786.3	1902.0	1866.8	1816.5	1912.1
29501.8	65°	24565.5	17903.3	2526.0	1494.5	1564.9	1670.6	1816.5	1856.8	1871.8	2058.0
27096.5	67.5°	21858.4	15588.7	1856.8	1378.7	1444.1	1600.1	1876.9	1942.3	1932.2	2163.7
22738.9	70°	17490.7	12192.2	1449.2	1283.1	1398.9	1655.5	1962.4	1962.4	1892.0	2163.7
17344.8	72.5°	12725.6	8594.4	1247.9	1172.4	1283.1	1519.6	1952.4	1947.3	1856.8	1977.5
11044.9	75°	7703.8	5001.7	1102.0	1061.7	1102.0	1303.2	1866.8	1836.6	1710.8	1700.8
5313.6	77.5°	3839.3	2515.9	900.7	941.0	961.1	1091.9	1640.4	1685.7	1514.6	1474.3
2098.3	80°	1620.3	1096.9	749.7	810.1	810.1	920.8	1363.6	1393.8	1258.0	1182.5
830.3	82.5°	739.7	629.0	639.0	704.5	659.2	714.5	1081.8	1117.1	1021.5	895.7
352.2	85°	312.0	357.3	488.1	553.5	488.1	462.9	744.7	785.0	664.2	553.5
151.0	87.5°	140.9	196.2	306.9	402.5	246.6	216.4	397.5	412.6	332.1	246.6
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>
5771.5
5766.5
5977.8
6189.2
6179.1
6018.1
5912.4
5801.7
5570.3
5273.4
4951.3
4478.3
3960.1
3441.8
2963.8
2606.5
2324.7
2073.1
1942.3
1866.8
1836.6
1836.6
1836.6
1836.6
1841.7
1886.9
2058.0
2178.8
2118.4
1907.1
1680.6
1449.2
1157.3
875.5
558.5
231.5
0.0

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