

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: P477364

Luminaire Tested: **IFLD-L-SA7C-735-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477364  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-735-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

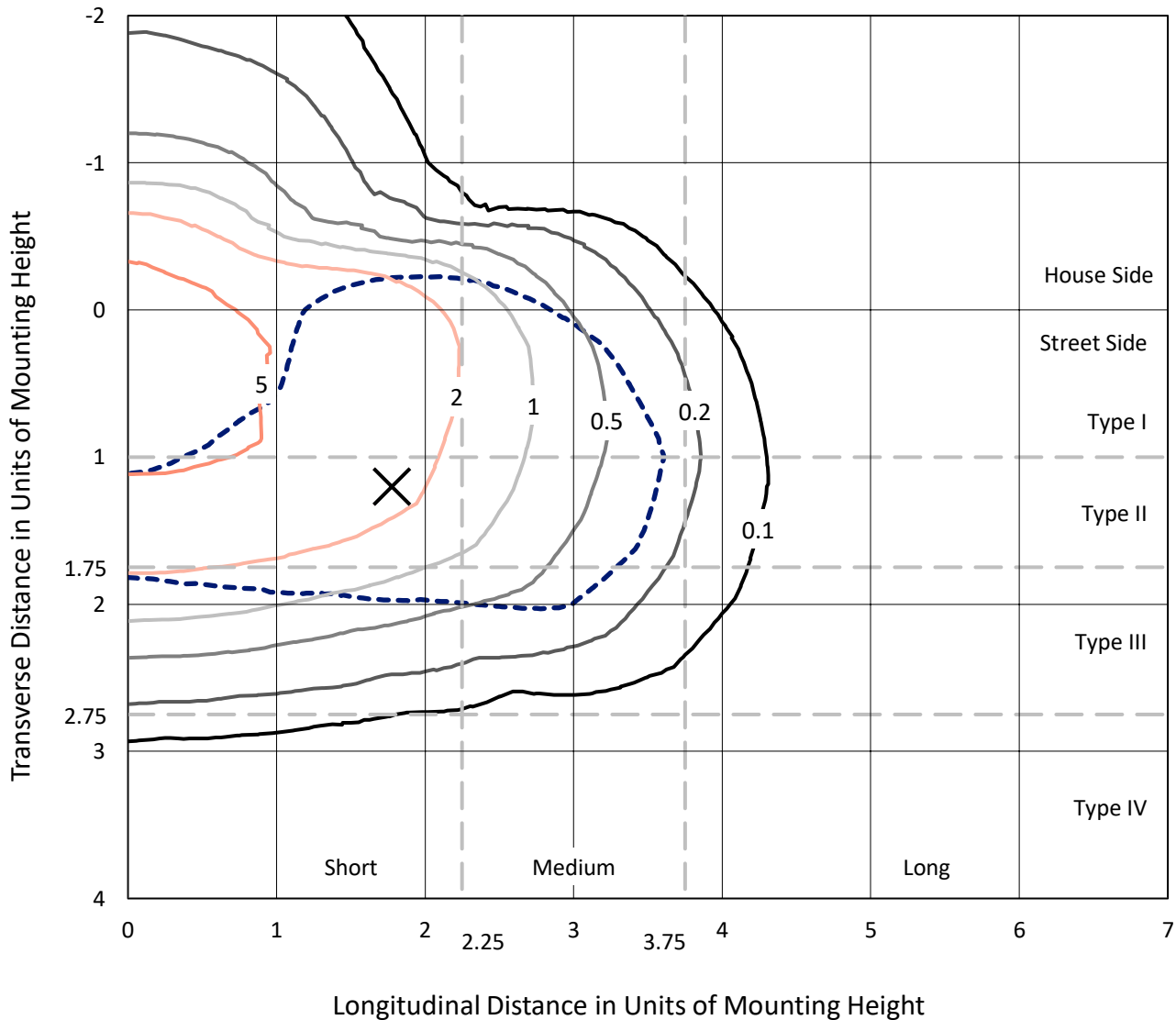
Lumens per Lamp: N/A  
Luminaire Lumens: 44533.3 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

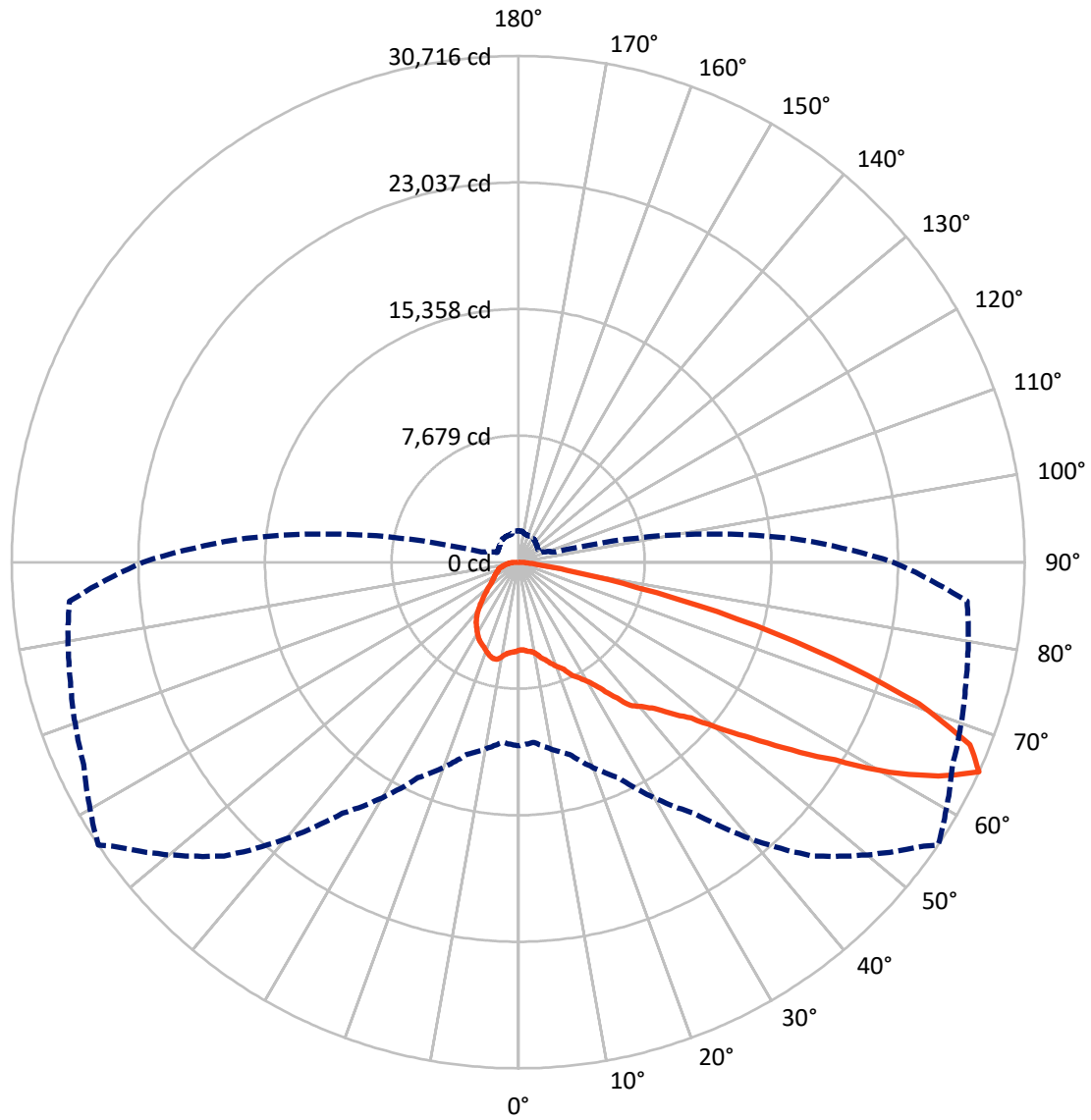
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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
<b>House Side</b>	Lumens	9987.4	0.0	9987.4
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	34545.9	0.0	34545.9
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	44533.3	0.0	44533.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.7	1.2
10°-20°	1720.0	3.9
20°-30°	3062.6	6.9
30°-40°	4586.1	10.3
40°-50°	6794.9	15.3
50°-60°	10469.9	23.5
60°-70°	11853.3	26.6
70°-80°	4919.2	11.0
80°-90°	597.6	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°	44533.3	100.0
0°-180°	44533.3	100.0

**Coefficient of Utilization**



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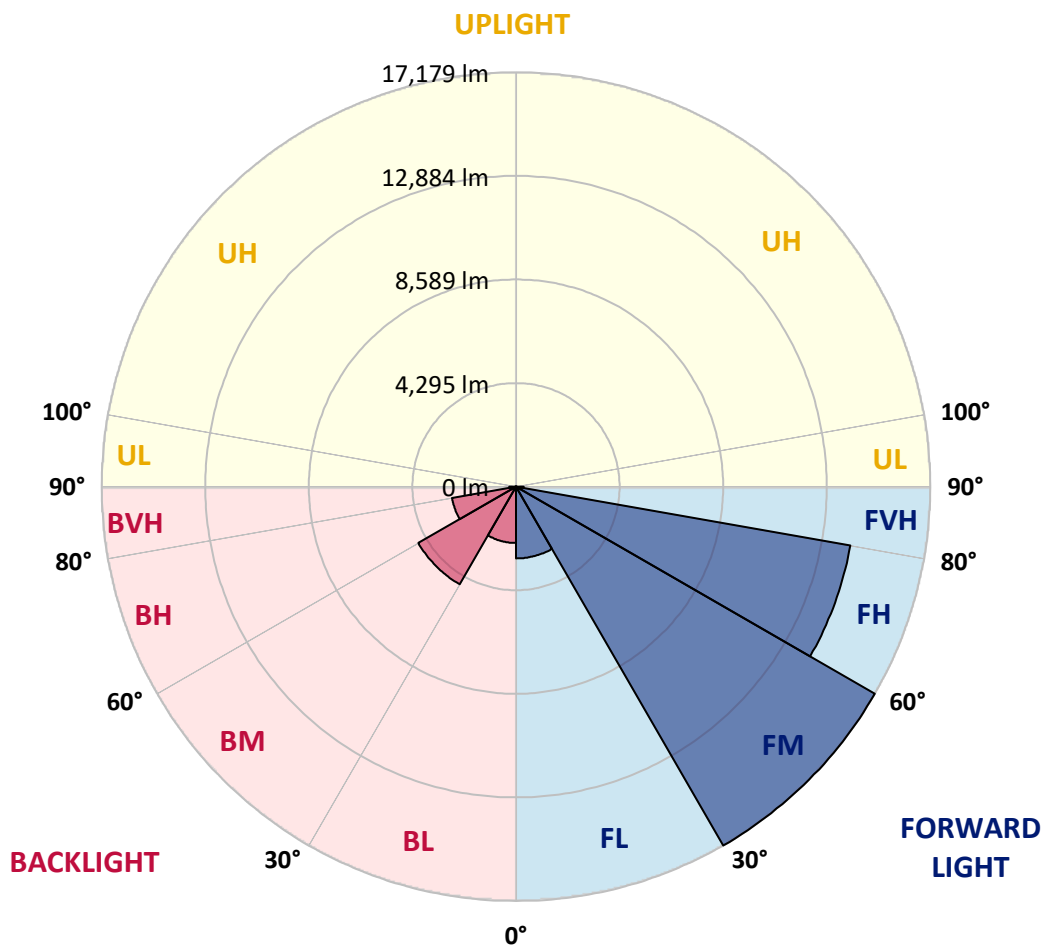
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2976.1	6.7			
FM (30°-60°)	17179.0	38.6			
FH (60°-80°)	14075.6	31.6			G5
FVH (80°-90°)	315.2	0.7			G3/500
BL (0°-30°)	2336.1	5.2	B3/2500		
BM (30°-60°)	4671.9	10.5	B3/5000		
BH (60°-80°)	2696.9	6.1	B4/5000		G4/5000
BVH (80°-90°)	282.4	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°	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3
2.5°	5205.5	5233.4	5214.8	5270.7	5317.3	5317.3	5354.6	5326.6	5363.9	5415.2
5°	5377.9	5266.0	5326.6	5354.6	5340.6	5363.9	5326.6	5419.8	5359.2	5457.1
7.5°	5419.8	5461.8	5513.0	5466.4	5508.4	5485.1	5489.7	5475.8	5443.1	5522.4
10°	5727.4	5666.8	5783.3	5713.4	5704.1	5694.8	5676.1	5606.2	5685.5	5690.1
12.5°	6081.6	6025.7	6021.0	5965.1	6039.6	5904.5	5932.5	5895.2	5909.2	5927.8
15°	6337.9	6314.6	6421.8	6356.5	6258.7	6198.1	6263.3	6160.8	6212.1	6202.7
17.5°	6845.9	6841.2	6762.0	6654.8	6598.9	6510.3	6496.3	6454.4	6491.7	6473.0
20°	7200.0	7251.3	7265.3	7139.4	6925.1	6827.2	6803.9	6771.3	6813.2	6799.3
22.5°	7740.6	7661.4	7722.0	7502.9	7423.7	7190.7	7106.8	7060.2	7260.6	7209.4
25°	8085.5	8169.4	8108.8	8034.2	7857.1	7568.2	7507.6	7610.1	7689.4	7633.4
27.5°	8863.7	8779.8	8723.9	8500.2	8383.7	8080.8	8010.9	7973.6	7992.3	8024.9
30°	9455.6	9502.2	9376.4	9217.9	8924.3	8616.7	8453.6	8421.0	8355.8	8299.8
32.5°	10299.1	10229.2	10154.6	10052.1	9800.4	9395.0	9236.5	9115.4	8919.7	8658.7
35°	10704.5	10904.9	10849.0	10574.0	10383.0	10229.2	10182.6	9996.2	9833.1	9423.0
37.5°	11380.2	11464.1	11384.9	11296.4	11207.8	11044.7	10988.8	11040.0	10718.5	10042.8
40°	11818.3	11995.4	12158.5	11911.5	11892.9	11925.5	11580.6	11520.1	10858.3	10504.1
42.5°	12713.1	12787.6	12820.3	12810.9	12918.1	12918.1	12261.0	12130.5	11659.9	11370.9
45°	13896.8	13957.3	14073.8	14157.7	14036.6	14097.2	13160.4	13109.2	12689.8	12633.8
47.5°	14922.0	15066.5	15327.4	15574.4	15732.9	15527.8	14502.6	14139.1	14031.9	14367.4
50°	15816.8	15644.3	16254.8	16506.5	17200.9	17541.0	15984.5	15840.1	15667.6	16310.8
52.5°	15905.3	16138.3	17000.5	17503.8	18934.5	19563.6	17802.0	17741.4	17531.7	18272.7
55°	16539.1	16511.1	17377.9	18468.4	20169.4	21227.3	20169.4	20132.1	19675.4	20379.1
57.5°	16431.9	16716.2	17401.2	18925.1	21283.2	23012.1	22914.3	22658.0	22019.5	22592.7
60°	16068.4	16143.0	16977.2	18911.2	21931.0	24843.6	25878.2	25929.4	24624.6	25081.3
62.5°	14008.6	14181.0	15238.9	17424.5	21469.6	26106.5	28772.2	28590.4	27546.5	27024.6
65°	11142.6	10970.1	12070.0	14432.7	18598.9	25211.8	30039.7	30715.5	29075.1	28119.7
67.5°	6831.9	6789.9	7847.8	9930.9	13915.4	21455.6	29028.5	29555.1	28651.0	27886.7
70°	3518.5	3411.3	4073.0	5541.0	8747.2	15742.2	25263.0	25780.3	26642.5	25011.4
72.5°	1640.4	1617.1	1971.3	2726.2	4455.2	9255.2	19563.6	19936.4	21753.9	21087.5
75°	964.7	978.6	1179.0	1426.0	2171.7	4362.0	12983.4	13705.7	15677.0	15197.0
77.5°	722.3	722.3	838.8	992.6	1267.6	1687.0	6407.8	7363.1	9166.6	8243.9
80°	531.3	540.6	643.1	745.6	880.8	871.5	2544.5	2982.5	4203.5	3593.0
82.5°	414.8	428.7	498.6	554.6	619.8	526.6	1043.9	1123.1	1728.9	1374.8
85°	288.9	298.3	391.5	377.5	377.5	293.6	433.4	456.7	685.1	652.4
87.5°	69.9	79.2	191.1	209.7	158.4	88.5	135.1	153.8	247.0	284.3
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°
5345.3	0°	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3	5345.3
5438.5	2.5°	5368.6	5387.2	5466.4	5424.5	5447.8	5349.9	5429.2	5363.9	5419.8	5391.9
5480.4	5°	5517.7	5475.8	5522.4	5489.7	5489.7	5527.0	5582.9	5541.0	5624.9	5587.6
5513.0	7.5°	5578.3	5582.9	5610.9	5615.6	5592.3	5708.8	5713.4	5699.4	5778.7	5760.0
5736.7	10°	5727.4	5732.1	5783.3	5811.3	5788.0	5829.9	5783.3	5746.0	5741.4	5722.7
5913.8	12.5°	5965.1	6011.7	6002.4	6025.7	6030.3	5853.2	5746.0	5564.3	5541.0	5564.3
6174.8	15°	6184.1	6165.5	6174.8	6221.4	6025.7	5741.4	5550.3	5396.5	5405.8	5410.5
6515.0	17.5°	6445.1	6459.1	6473.0	6258.7	5899.8	5564.3	5396.5	5396.5	5349.9	5368.6
6752.7	20°	6743.3	6687.4	6566.2	6263.3	5680.8	5359.2	5308.0	5308.0	5252.1	5214.8
7009.0	22.5°	6976.3	6864.5	6682.7	6118.9	5485.1	5280.0	5154.2	5065.7	5000.4	4925.8
7293.2	25°	7125.5	7064.9	6710.7	5969.7	5340.6	5070.3	4883.9	4748.8	4664.9	4567.0
7516.9	27.5°	7353.8	7237.3	6789.9	5797.3	5182.2	4860.6	4571.7	4362.0	4203.5	4101.0
7857.1	30°	7661.4	7493.6	6734.0	5550.3	4939.8	4497.1	4156.9	3886.6	3704.9	3621.0
8178.7	32.5°	7913.0	7694.0	6687.4	5326.6	4669.5	4129.0	3676.9	3402.0	3299.4	3192.2
8719.3	35°	8393.0	7959.6	6654.8	5200.8	4427.2	3760.8	3285.5	3047.8	2917.3	2758.8
9040.8	37.5°	8761.2	8421.0	6575.6	4939.8	4115.0	3402.0	2987.2	2772.8	2577.1	2409.3
9786.5	40°	9339.1	9064.1	6580.2	4571.7	3746.8	3094.4	2754.2	2530.5	2283.5	2139.0
10890.9	42.5°	10424.9	9697.9	6608.2	4278.1	3332.1	2842.7	2544.5	2278.8	2031.9	1910.7
12149.2	45°	11757.7	10569.4	6435.8	4012.4	2908.0	2605.1	2292.8	2027.2	1868.7	1780.2
13859.5	47.5°	13290.9	11422.2	6202.7	3513.8	2553.8	2353.4	2059.8	1906.0	1789.5	1738.3
16063.8	50°	15005.9	12643.2	6137.5	3057.1	2278.8	2139.0	1948.0	1831.5	1752.2	1691.7
18547.7	52.5°	17214.8	14064.5	6007.0	2586.4	2041.2	1966.6	1906.0	1826.8	1756.9	1705.6
20863.8	55°	19325.9	15639.7	5867.2	2199.6	1873.4	1882.7	1915.3	1845.4	1784.9	1705.6
23459.5	57.5°	21702.6	17247.5	5349.9	1915.3	1747.6	1840.8	1906.0	1826.8	1766.2	1705.6
26115.8	60°	23170.6	18151.5	4338.7	1668.4	1635.7	1761.6	1850.1	1766.2	1701.0	1724.3
27336.8	62.5°	23767.1	17676.2	3271.5	1514.6	1556.5	1654.4	1761.6	1728.9	1682.3	1770.9
27322.8	65°	22751.2	16581.0	2339.4	1384.1	1449.3	1547.2	1682.3	1719.6	1733.6	1906.0
25095.3	67.5°	20244.0	14437.3	1719.6	1276.9	1337.5	1481.9	1738.3	1798.8	1789.5	2003.9
21059.5	70°	16198.9	11291.7	1342.1	1188.4	1295.5	1533.2	1817.5	1817.5	1752.2	2003.9
16063.8	72.5°	11785.7	7959.6	1155.7	1085.8	1188.4	1407.4	1808.2	1803.5	1719.6	1831.5
10229.2	75°	7134.8	4632.3	1020.6	983.3	1020.6	1207.0	1728.9	1701.0	1584.5	1575.2
4921.2	77.5°	3555.7	2330.1	834.2	871.5	890.1	1011.3	1519.2	1561.2	1402.7	1365.4
1943.3	80°	1500.6	1015.9	694.4	750.3	750.3	852.8	1262.9	1290.9	1165.1	1095.2
768.9	82.5°	685.1	582.5	591.8	652.4	610.5	661.8	1001.9	1034.6	946.0	829.5
326.2	85°	288.9	330.9	452.0	512.6	452.0	428.7	689.7	727.0	615.1	512.6
139.8	87.5°	130.5	181.7	284.3	372.8	228.4	200.4	368.2	382.1	307.6	228.4
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>
5345.3
5340.6
5536.3
5732.1
5722.7
5573.6
5475.8
5373.2
5158.9
4883.9
4585.7
4147.6
3667.6
3187.6
2744.9
2414.0
2153.0
1920.0
1798.8
1728.9
1701.0
1701.0
1701.0
1701.0
1705.6
1747.6
1906.0
2017.9
1962.0
1766.2
1556.5
1342.1
1071.8
810.9
517.3
214.4
0.0

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