

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: P477323

Luminaire Tested: **IFLD-L-SA7A-730-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477323  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-730-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

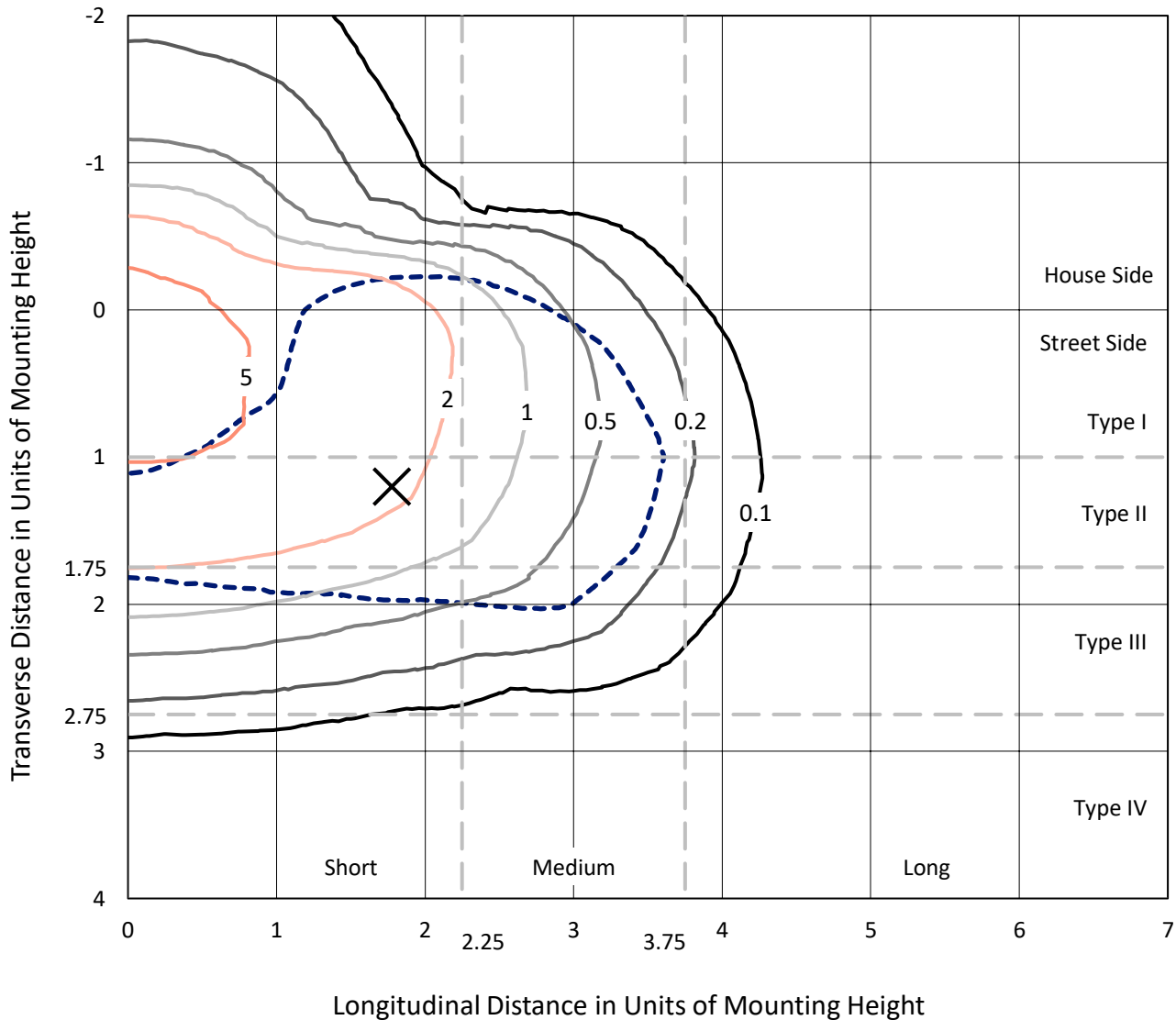
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29030.1 lumens  
Efficiency: N/A  
Efficacy: 133.4 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 217.6  
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

REPORT NUMBER: P477323  
 CATALOG NUMBER: IFLD-L-SA7A-730-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

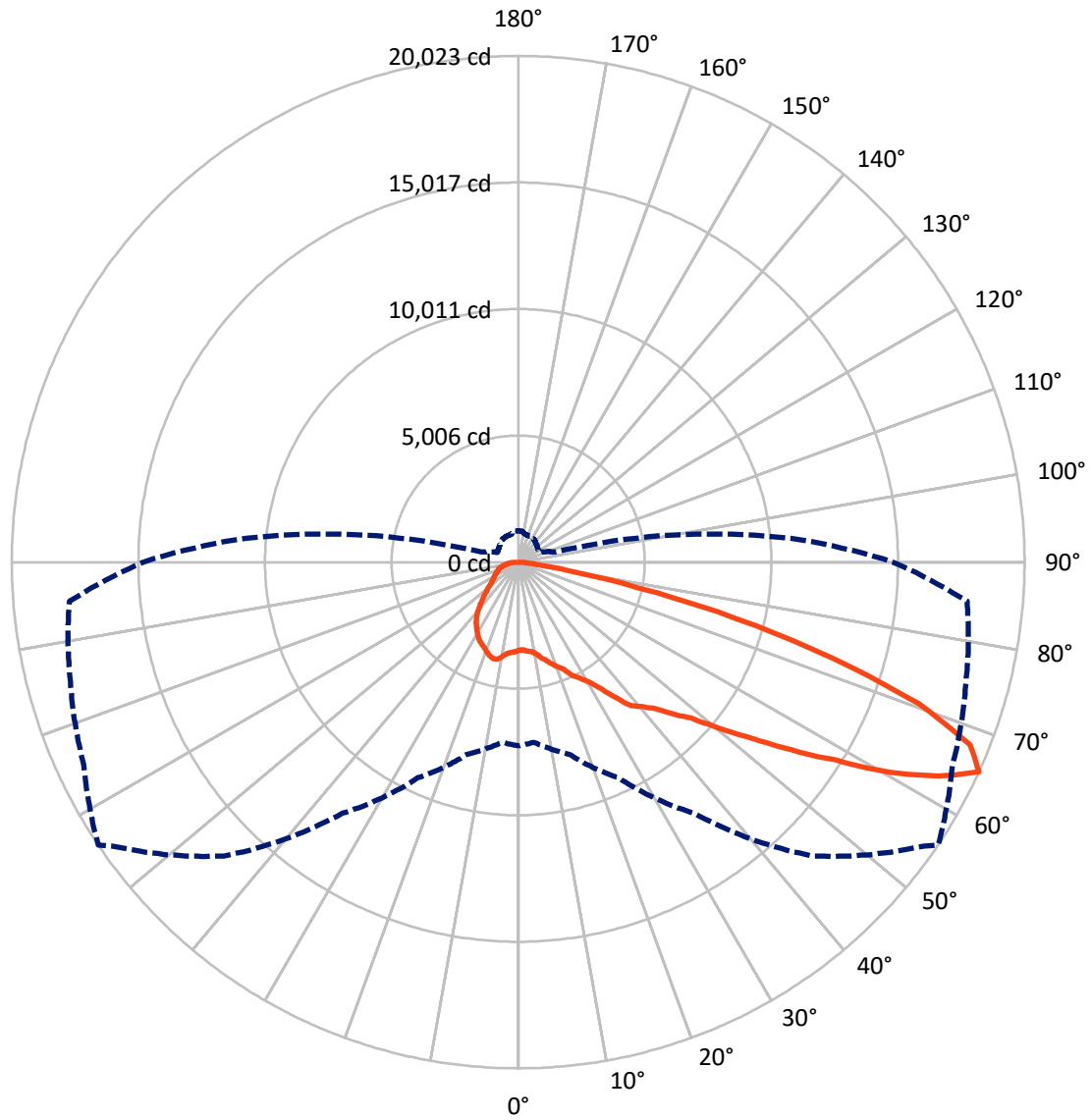
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P477323  
CATALOG NUMBER: IFLD-L-SA7A-730-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P477323  
 CATALOG NUMBER: IFLD-L-SA7A-730-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6510.5	0.0	6510.5
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	22519.6	0.0	22519.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	29030.1	0.0	29030.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.3	1.2
10°-20°	1121.2	3.9
20°-30°	1996.4	6.9
30°-40°	2989.6	10.3
40°-50°	4429.4	15.3
50°-60°	6825.1	23.5
60°-70°	7726.9	26.6
70°-80°	3206.7	11.0
80°-90°	389.6	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°	29030.1	100.0
0°-180°	29030.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P477323

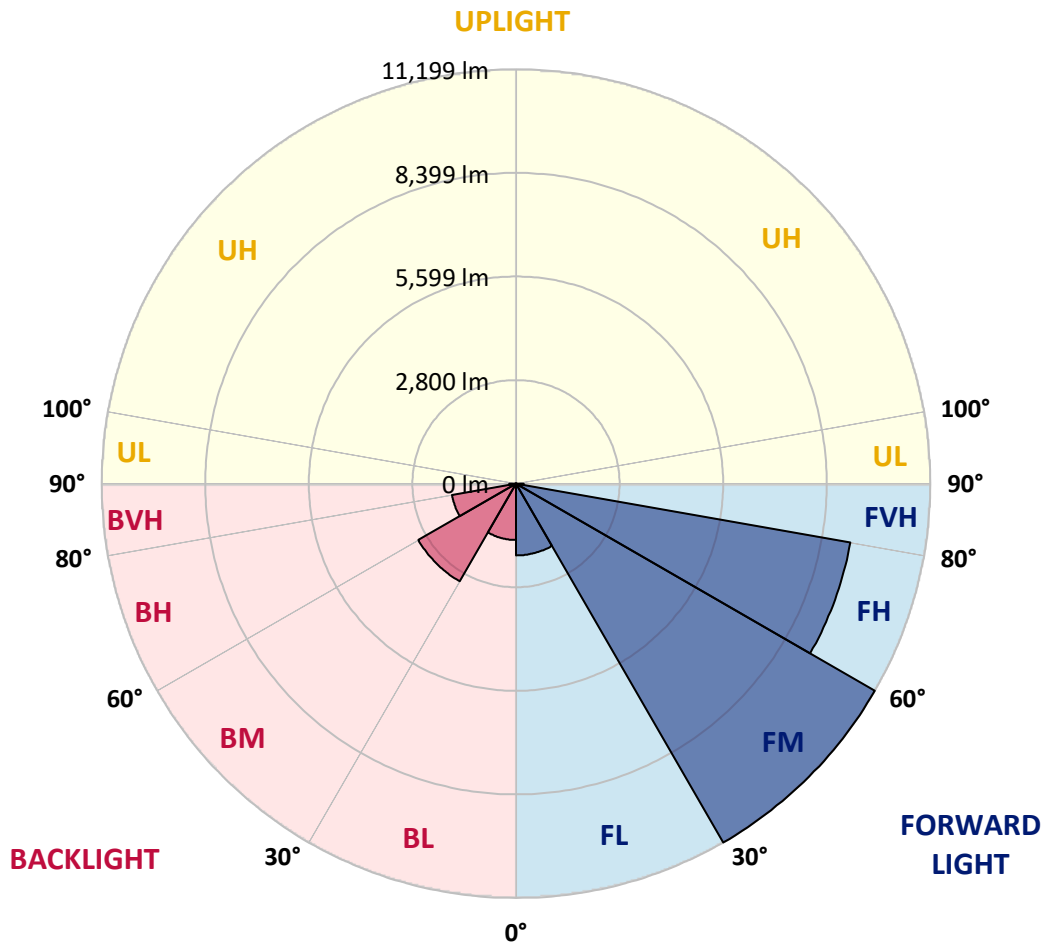
CATALOG NUMBER: IFLD-L-SA7A-730-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.1	6.7			
FM (30°-60°)	11198.6	38.6			
FH (60°-80°)	9175.5	31.6			G4/12000
FVH (80°-90°)	205.5	0.7			G2/225
BL (0°-30°)	1522.9	5.2	B3/2500		
BM (30°-60°)	3045.5	10.5	B3/5000		
BH (60°-80°)	1758.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	184.1	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-G4**

Type III Short





REPORT NUMBER: P477323  
 CATALOG NUMBER: IFLD-L-SA7A-730-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4
2.5°	3393.3	3411.5	3399.4	3435.8	3466.2	3466.2	3490.5	3472.3	3496.6	3530.0
5°	3505.7	3432.8	3472.3	3490.5	3481.4	3496.6	3472.3	3533.0	3493.6	3557.4
7.5°	3533.0	3560.4	3593.8	3563.4	3590.8	3575.6	3578.6	3569.5	3548.2	3599.9
10°	3733.5	3694.1	3770.0	3724.4	3718.4	3712.3	3700.1	3654.6	3706.2	3709.2
12.5°	3964.4	3928.0	3924.9	3888.5	3937.1	3849.0	3867.2	3842.9	3852.0	3864.2
15°	4131.5	4116.3	4186.2	4143.7	4079.9	4040.4	4082.9	4016.1	4049.5	4043.4
17.5°	4462.6	4459.6	4408.0	4338.1	4301.6	4243.9	4234.8	4207.5	4231.8	4219.6
20°	4693.5	4726.9	4736.0	4654.0	4514.3	4450.5	4435.3	4414.0	4441.4	4432.3
22.5°	5045.9	4994.3	5033.8	4891.0	4839.3	4687.4	4632.8	4602.4	4733.0	4699.6
25°	5270.7	5325.4	5285.9	5237.3	5121.9	4933.5	4894.0	4960.9	5012.5	4976.0
27.5°	5778.0	5723.4	5686.9	5541.1	5465.1	5267.7	5222.1	5197.8	5210.0	5231.2
30°	6163.9	6194.2	6112.2	6008.9	5817.5	5617.0	5510.7	5489.4	5446.9	5410.5
32.5°	6713.7	6668.1	6619.5	6552.7	6388.7	6124.4	6021.1	5942.1	5814.5	5644.4
35°	6978.0	7108.6	7072.2	6892.9	6768.4	6668.1	6637.8	6516.2	6409.9	6142.6
37.5°	7418.5	7473.2	7421.5	7363.8	7306.1	7199.8	7163.3	7196.7	6987.1	6546.6
40°	7704.1	7819.5	7925.8	7764.8	7752.7	7773.9	7549.1	7509.6	7078.3	6847.4
42.5°	8287.3	8335.9	8357.2	8351.1	8421.0	8421.0	7992.7	7907.6	7600.8	7412.4
45°	9058.9	9098.4	9174.4	9229.1	9150.1	9189.6	8579.0	8545.5	8272.1	8235.7
47.5°	9727.3	9821.5	9991.6	10152.6	10255.9	10122.2	9453.9	9216.9	9147.0	9365.8
50°	10310.6	10198.1	10596.1	10760.2	11212.8	11434.6	10419.9	10325.7	10213.3	10632.6
52.5°	10368.3	10520.2	11082.2	11410.3	12342.9	12753.0	11604.7	11565.2	11428.5	11911.5
55°	10781.4	10763.2	11328.2	12039.1	13147.9	13837.5	13147.9	13123.6	12825.9	13284.6
57.5°	10711.6	10896.9	11343.4	12336.8	13874.0	15001.0	14937.2	14770.2	14354.0	14727.6
60°	10474.6	10523.2	11067.0	12327.7	14296.2	16194.9	16869.3	16902.7	16052.1	16349.8
62.5°	9131.9	9244.3	9933.9	11358.6	13995.5	17018.2	18755.8	18637.4	17956.9	17616.6
65°	7263.6	7151.2	7868.1	9408.3	12124.2	16434.9	19582.1	20022.6	18953.3	18330.5
67.5°	4453.5	4426.2	5115.8	6473.7	9071.1	13986.4	18922.9	19266.2	18676.9	18178.7
70°	2293.6	2223.7	2655.1	3612.0	5702.1	10261.9	16468.3	16805.5	17367.5	16304.3
72.5°	1069.3	1054.1	1285.0	1777.2	2904.2	6033.2	12753.0	12996.0	14180.8	13746.4
75°	628.8	638.0	768.6	929.6	1415.7	2843.5	8463.5	8934.4	10219.4	9906.5
77.5°	470.9	470.9	546.8	647.1	826.3	1099.7	4177.1	4799.8	5975.5	5374.0
80°	346.3	352.4	419.2	486.1	574.2	568.1	1658.7	1944.2	2740.2	2342.2
82.5°	270.4	279.5	325.1	361.5	404.0	343.3	680.5	732.1	1127.1	896.2
85°	188.3	194.4	255.2	246.1	246.1	191.4	282.5	297.7	446.6	425.3
87.5°	45.6	51.6	124.6	136.7	103.3	57.7	88.1	100.2	161.0	185.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477323  
 CATALOG NUMBER: IFLD-L-SA7A-730-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3484.4	0°	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4	3484.4
3545.2	2.5°	3499.6	3511.8	3563.4	3536.1	3551.3	3487.5	3539.1	3496.6	3533.0	3514.8
3572.5	5°	3596.8	3569.5	3599.9	3578.6	3578.6	3602.9	3639.4	3612.0	3666.7	3642.4
3593.8	7.5°	3636.3	3639.4	3657.6	3660.6	3645.5	3721.4	3724.4	3715.3	3767.0	3754.8
3739.6	10°	3733.5	3736.6	3770.0	3788.2	3773.0	3800.4	3770.0	3745.7	3742.7	3730.5
3855.1	12.5°	3888.5	3918.9	3912.8	3928.0	3931.0	3815.6	3745.7	3627.2	3612.0	3627.2
4025.2	15°	4031.3	4019.1	4025.2	4055.6	3928.0	3742.7	3618.1	3517.9	3523.9	3527.0
4247.0	17.5°	4201.4	4210.5	4219.6	4079.9	3846.0	3627.2	3517.9	3517.9	3487.5	3499.6
4401.9	20°	4395.8	4359.4	4280.4	4082.9	3703.2	3493.6	3460.1	3460.1	3423.7	3399.4
4569.0	22.5°	4547.7	4474.8	4356.3	3988.7	3575.6	3441.9	3359.9	3302.2	3259.6	3211.0
4754.3	25°	4644.9	4605.4	4374.5	3891.5	3481.4	3305.2	3183.7	3095.6	3040.9	2977.1
4900.1	27.5°	4793.8	4717.8	4426.2	3779.1	3378.1	3168.5	2980.2	2843.5	2740.2	2673.3
5121.9	30°	4994.3	4884.9	4389.7	3618.1	3220.1	2931.6	2709.8	2533.6	2415.1	2360.4
5331.5	32.5°	5158.3	5015.5	4359.4	3472.3	3044.0	2691.6	2396.9	2217.6	2150.8	2080.9
5683.9	35°	5471.2	5188.7	4338.1	3390.3	2886.0	2451.6	2141.7	1986.8	1901.7	1798.4
5893.5	37.5°	5711.2	5489.4	4286.4	3220.1	2682.4	2217.6	1947.3	1807.5	1679.9	1570.6
6379.5	40°	6087.9	5908.7	4289.5	2980.2	2442.5	2017.1	1795.4	1649.6	1488.6	1394.4
7099.5	42.5°	6795.7	6321.8	4307.7	2788.8	2172.1	1853.1	1658.7	1485.5	1324.5	1245.5
7919.7	45°	7664.6	6889.9	4195.3	2615.6	1895.6	1698.2	1494.6	1321.5	1218.2	1160.5
9034.6	47.5°	8664.0	7445.8	4043.4	2290.6	1664.8	1534.1	1342.7	1242.5	1166.5	1133.1
10471.6	50°	9782.0	8241.8	4000.9	1992.8	1485.5	1394.4	1269.8	1193.9	1142.2	1102.7
12090.7	52.5°	11221.9	9168.3	3915.8	1686.0	1330.6	1282.0	1242.5	1190.8	1145.3	1111.9
13600.6	55°	12598.1	10195.1	3824.7	1433.9	1221.2	1227.3	1248.6	1203.0	1163.5	1111.9
15292.7	57.5°	14147.4	11243.2	3487.5	1248.6	1139.2	1200.0	1242.5	1190.8	1151.4	1111.9
17024.3	60°	15104.3	11832.5	2828.3	1087.6	1066.3	1148.3	1206.0	1151.4	1108.8	1124.0
17820.2	62.5°	15493.2	11522.7	2132.6	987.3	1014.7	1078.4	1148.3	1127.1	1096.7	1154.4
17811.1	65°	14830.9	10808.8	1525.0	902.2	944.8	1008.6	1096.7	1121.0	1130.1	1242.5
16359.0	67.5°	13196.5	9411.3	1121.0	832.4	871.9	966.0	1133.1	1172.6	1166.5	1306.3
13728.2	70°	10559.7	7360.8	874.9	774.7	844.5	999.5	1184.8	1184.8	1142.2	1306.3
10471.6	72.5°	7682.8	5188.7	753.4	707.8	774.7	917.4	1178.7	1175.7	1121.0	1193.9
6668.1	75°	4651.0	3019.6	665.3	641.0	665.3	786.8	1127.1	1108.8	1032.9	1026.8
3208.0	77.5°	2317.9	1518.9	543.8	568.1	580.2	659.2	990.3	1017.7	914.4	890.1
1266.8	80°	978.2	662.3	452.6	489.1	489.1	555.9	823.3	841.5	759.5	713.9
501.2	82.5°	446.6	379.7	385.8	425.3	398.0	431.4	653.1	674.4	616.7	540.7
212.7	85°	188.3	215.7	294.7	334.2	294.7	279.5	449.6	473.9	401.0	334.2
91.1	87.5°	85.1	118.5	185.3	243.0	148.9	130.6	240.0	249.1	200.5	148.9
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>
3484.4
3481.4
3609.0
3736.6
3730.5
3633.3
3569.5
3502.7
3362.9
3183.7
2989.3
2703.7
2390.8
2077.9
1789.3
1573.6
1403.5
1251.6
1172.6
1127.1
1108.8
1108.8
1108.8
1108.8
1111.9
1139.2
1242.5
1315.4
1278.9
1151.4
1014.7
874.9
698.7
528.6
337.2
139.7
0.0

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