

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: P477246

Luminaire Tested: **IFLD-L-SA7B-722-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477246  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-722-U-T3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

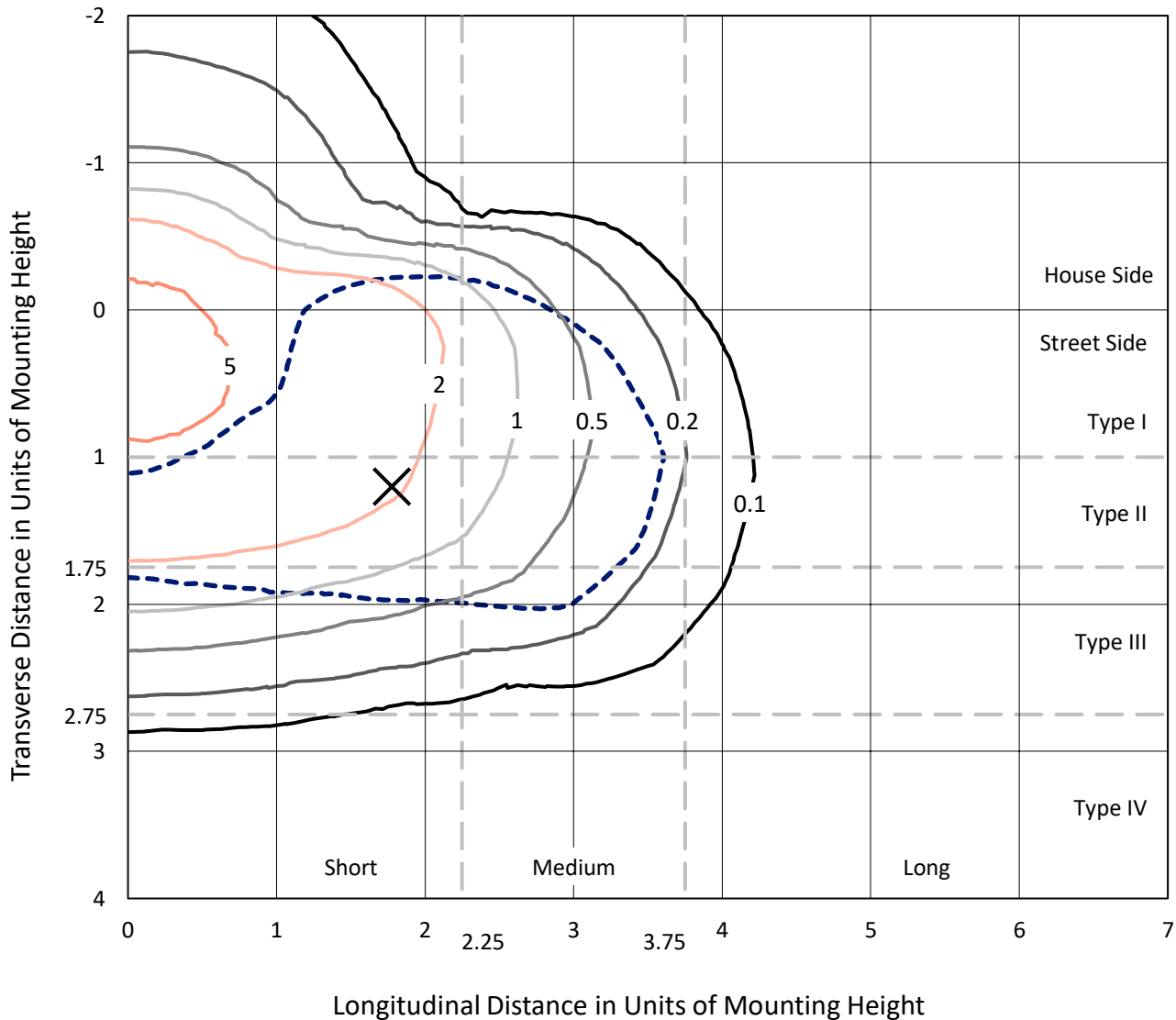
Lumens per Lamp: N/A  
Luminaire Lumens: 26717.7 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 281  
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

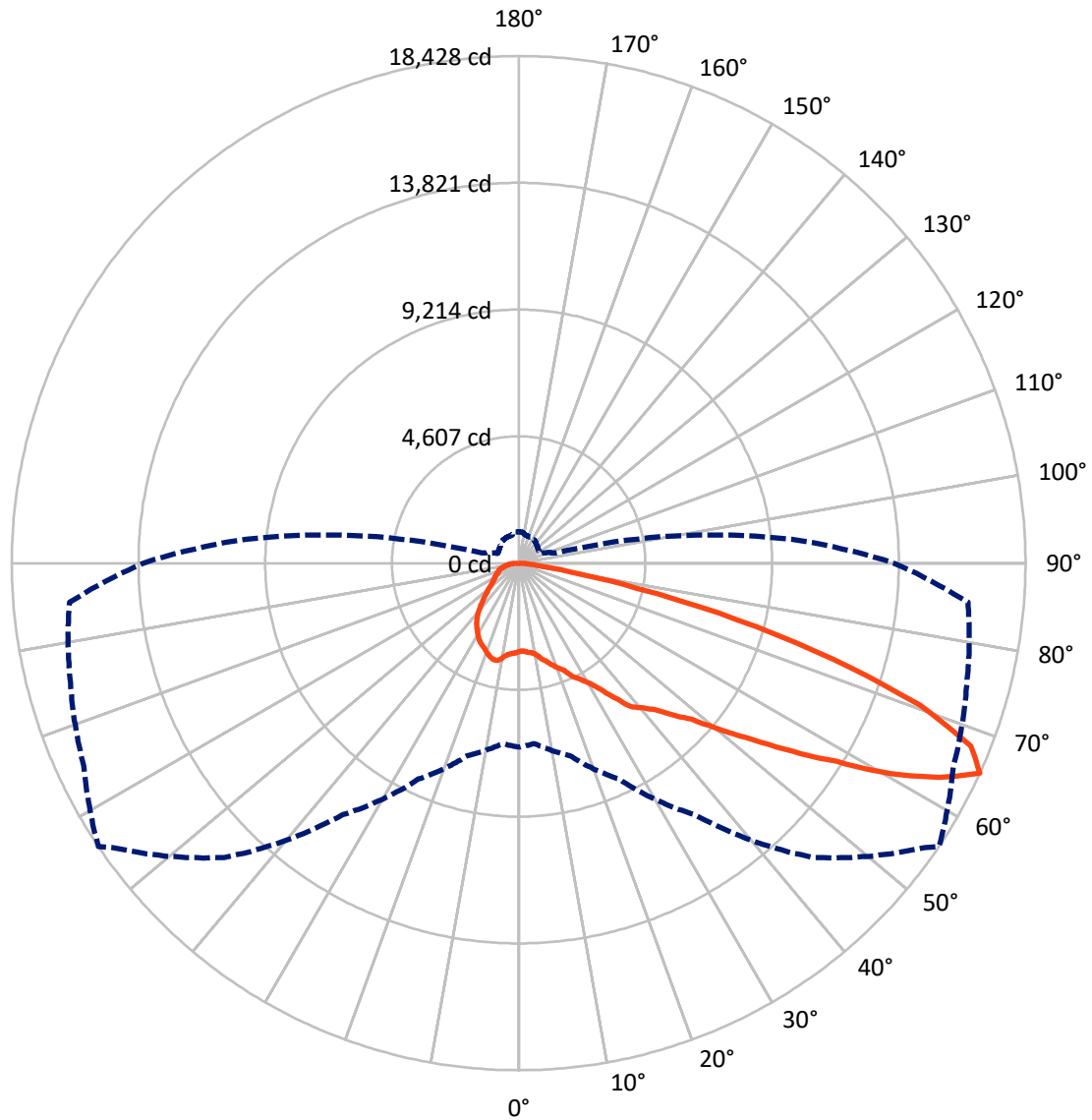
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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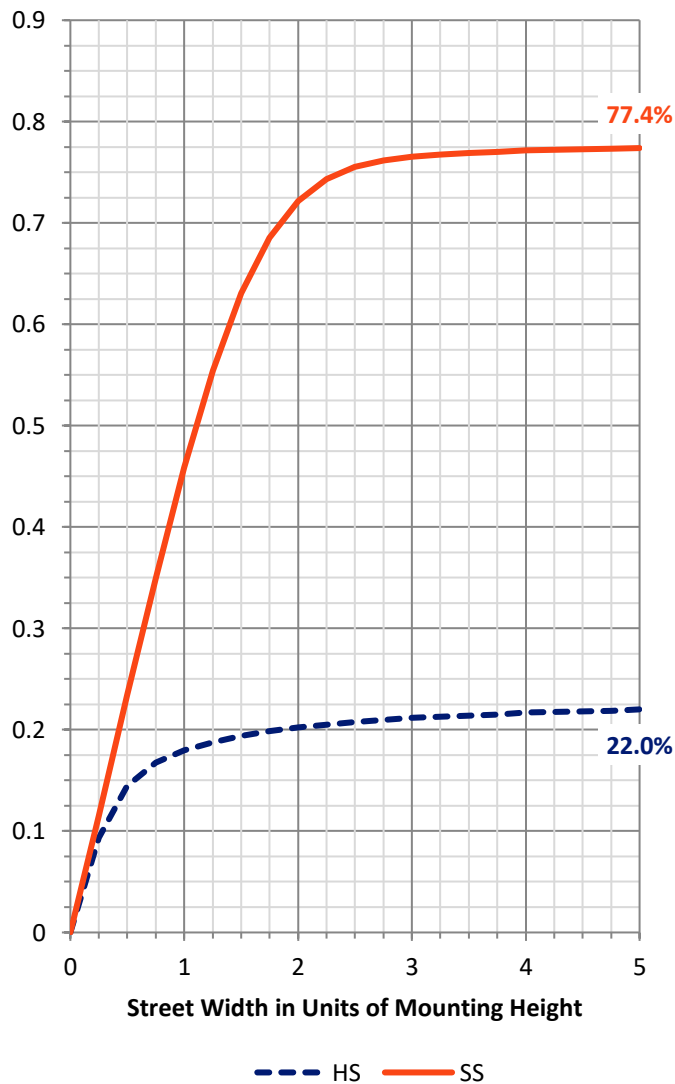
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5991.9	0.0	5991.9
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	20725.8	0.0	20725.8
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	26717.7	0.0	26717.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.8	1.2
10°-20°	1031.9	3.9
20°-30°	1837.4	6.9
30°-40°	2751.4	10.3
40°-50°	4076.6	15.3
50°-60°	6281.4	23.5
60°-70°	7111.4	26.6
70°-80°	2951.3	11.0
80°-90°	358.5	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°	26717.7	100.0
0°-180°	26717.7	100.0

**Coefficient of Utilization**

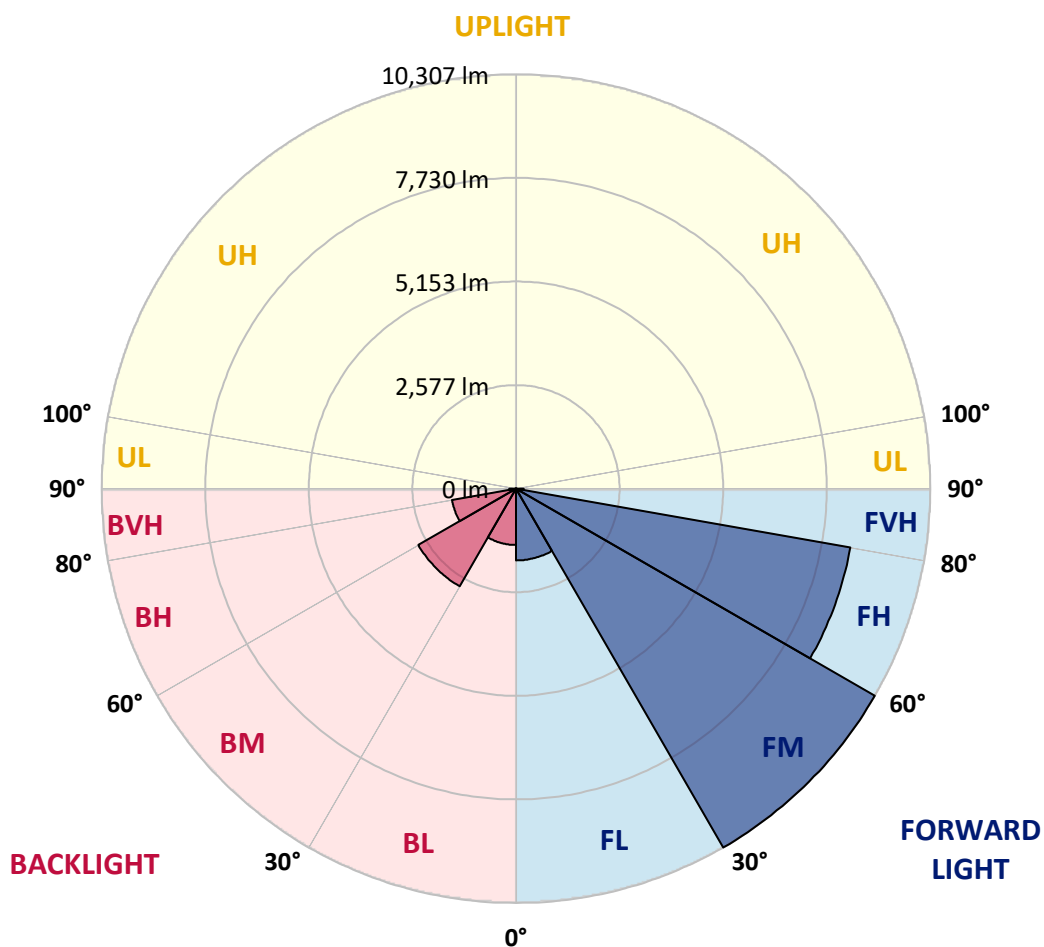


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1785.5	6.7			
FM (30°-60°)	10306.5	38.6			
FH (60°-80°)	8444.6	31.6			G4/12000
FVH (80°-90°)	189.1	0.7			G2/225
BL (0°-30°)	1401.6	5.2	B3/2500		
BM (30°-60°)	2802.9	10.5	B3/5000		
BH (60°-80°)	1618.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	169.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9
2.5°	3123.0	3139.8	3128.6	3162.2	3190.1	3190.1	3212.5	3195.7	3218.1	3248.8
5°	3226.5	3159.4	3195.7	3212.5	3204.1	3218.1	3195.7	3251.6	3215.3	3274.0
7.5°	3251.6	3276.8	3307.5	3279.6	3304.7	3290.8	3293.6	3285.2	3265.6	3313.1
10°	3436.1	3399.8	3469.7	3427.8	3422.2	3416.6	3405.4	3363.5	3411.0	3413.8
12.5°	3648.6	3615.1	3612.3	3578.7	3623.5	3542.4	3559.2	3536.8	3545.2	3556.4
15°	3802.4	3788.4	3852.7	3813.6	3754.9	3718.5	3757.7	3696.2	3726.9	3721.3
17.5°	4107.2	4104.4	4056.8	3992.5	3959.0	3905.9	3897.5	3872.3	3894.7	3883.5
20°	4319.6	4350.4	4358.8	4283.3	4154.7	4096.0	4082.0	4062.4	4087.6	4079.2
22.5°	4644.0	4596.4	4632.8	4501.4	4453.9	4314.1	4263.7	4235.8	4356.0	4325.2
25°	4850.9	4901.2	4864.8	4820.1	4713.9	4540.5	4504.2	4565.7	4613.2	4579.7
27.5°	5317.8	5267.5	5233.9	5099.7	5029.8	4848.1	4806.1	4783.8	4794.9	4814.5
30°	5672.9	5700.8	5625.3	5530.3	5354.1	5169.6	5071.7	5052.2	5013.0	4979.5
32.5°	6178.9	6137.0	6092.2	6030.7	5879.8	5636.5	5541.5	5468.8	5351.3	5194.8
35°	6422.2	6542.4	6508.8	6343.9	6229.2	6137.0	6109.0	5997.2	5899.3	5653.3
37.5°	6827.6	6877.9	6830.4	6777.2	6724.1	6626.3	6592.7	6623.5	6430.5	6025.1
40°	7090.4	7196.6	7294.5	7146.3	7135.1	7154.7	6947.8	6911.4	6514.4	6301.9
42.5°	7627.2	7671.9	7691.5	7685.9	7750.2	7750.2	7356.0	7277.7	6995.3	6822.0
45°	8337.3	8373.7	8443.6	8493.9	8421.2	8457.6	7895.6	7864.8	7613.2	7579.7
47.5°	8952.4	9039.1	9195.7	9343.9	9438.9	9315.9	8700.8	8482.7	8418.4	8619.7
50°	9489.2	9385.8	9752.1	9903.0	10319.6	10523.7	9589.9	9503.2	9399.8	9785.6
52.5°	9542.4	9682.2	10199.4	10501.4	11359.7	11737.1	10680.3	10643.9	10518.1	10962.7
55°	9922.6	9905.8	10425.9	11080.1	12100.6	12735.3	12100.6	12078.2	11804.2	12226.4
57.5°	9858.3	10028.9	10439.8	11354.1	12768.8	13806.1	13747.4	13593.6	13210.6	13554.5
60°	9640.2	9685.0	10185.4	11345.7	13157.5	14904.9	15525.6	15556.3	14773.5	15047.5
62.5°	8404.4	8507.9	9142.6	10453.8	12880.7	15662.6	17261.8	17152.8	16526.5	16213.4
65°	6685.0	6581.5	7241.4	8658.9	11158.4	15125.8	18022.3	18427.7	17443.5	16870.4
67.5°	4098.8	4073.6	4708.3	5958.0	8348.5	12872.3	17415.6	17731.5	17189.1	16730.6
70°	2110.9	2046.6	2443.6	3324.3	5247.9	9444.5	15156.5	15466.9	15984.1	15005.5
72.5°	984.2	970.2	1182.7	1635.6	2672.9	5552.6	11737.1	11960.8	13051.2	12651.4
75°	578.7	587.1	707.4	855.5	1302.9	2617.0	7789.3	8222.7	9405.4	9117.4
77.5°	433.4	433.4	503.3	595.5	760.5	1012.1	3844.3	4417.5	5499.5	4945.9
80°	318.7	324.3	385.8	447.3	528.4	522.8	1526.6	1789.4	2521.9	2155.6
82.5°	248.8	257.2	299.2	332.7	371.9	315.9	626.3	673.8	1037.3	824.8
85°	173.3	178.9	234.9	226.5	226.5	176.1	260.0	274.0	411.0	391.4
87.5°	41.9	47.5	114.6	125.8	95.1	53.1	81.1	92.3	148.2	170.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477246  
 CATALOG NUMBER: IFLD-L-SA7B-722-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3206.9	0°	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9	3206.9
3262.8	2.5°	3220.9	3232.0	3279.6	3254.4	3268.4	3209.7	3257.2	3218.1	3251.6	3234.8
3288.0	5°	3310.3	3285.2	3313.1	3293.6	3293.6	3315.9	3349.5	3324.3	3374.6	3352.3
3307.5	7.5°	3346.7	3349.5	3366.2	3369.0	3355.1	3425.0	3427.8	3419.4	3466.9	3455.7
3441.7	10°	3436.1	3438.9	3469.7	3486.5	3472.5	3497.7	3469.7	3447.3	3444.5	3433.4
3548.0	12.5°	3578.7	3606.7	3601.1	3615.1	3617.9	3511.6	3447.3	3338.3	3324.3	3338.3
3704.6	15°	3710.1	3699.0	3704.6	3732.5	3615.1	3444.5	3329.9	3237.6	3243.2	3246.0
3908.7	17.5°	3866.7	3875.1	3883.5	3754.9	3539.6	3338.3	3237.6	3237.6	3209.7	3220.9
4051.2	20°	4045.7	4012.1	3939.4	3757.7	3408.2	3215.3	3184.5	3184.5	3151.0	3128.6
4205.0	22.5°	4185.4	4118.3	4009.3	3671.0	3290.8	3167.7	3092.3	3039.1	3000.0	2955.3
4375.6	25°	4274.9	4238.6	4026.1	3581.5	3204.1	3041.9	2930.1	2849.0	2798.7	2740.0
4509.8	27.5°	4411.9	4342.0	4073.6	3478.1	3109.0	2916.1	2742.8	2617.0	2521.9	2460.4
4713.9	30°	4596.4	4495.8	4040.1	3329.9	2963.6	2698.0	2493.9	2331.8	2222.7	2172.4
4906.8	32.5°	4747.4	4616.0	4012.1	3195.7	2801.5	2477.2	2206.0	2041.0	1979.5	1915.2
5231.1	35°	5035.4	4775.4	3992.5	3120.2	2656.1	2256.3	1971.1	1828.5	1750.2	1655.2
5424.0	37.5°	5256.3	5052.2	3945.0	2963.6	2468.8	2041.0	1792.2	1663.6	1546.1	1445.5
5871.4	40°	5603.0	5438.0	3947.8	2742.8	2247.9	1856.5	1652.4	1518.2	1370.0	1283.3
6534.0	42.5°	6254.4	5818.2	3964.6	2566.6	1999.1	1705.5	1526.6	1367.2	1219.0	1146.3
7288.9	45°	7054.0	6341.1	3861.1	2407.3	1744.6	1562.9	1375.6	1216.2	1121.2	1068.0
8315.0	47.5°	7973.9	6852.7	3721.3	2108.1	1532.1	1411.9	1235.8	1143.5	1073.6	1042.9
9637.4	50°	9002.8	7585.2	3682.2	1834.1	1367.2	1283.3	1168.7	1098.8	1051.3	1014.9
11127.6	52.5°	10328.0	8438.0	3603.9	1551.7	1224.6	1179.9	1143.5	1096.0	1054.1	1023.3
12517.2	55°	11594.6	9383.0	3520.0	1319.7	1123.9	1129.5	1149.1	1107.2	1070.8	1023.3
14074.5	57.5°	13020.5	10347.6	3209.7	1149.1	1048.5	1104.4	1143.5	1096.0	1059.6	1023.3
15668.2	60°	13901.2	10890.0	2603.0	1000.9	981.4	1056.8	1110.0	1059.6	1020.5	1034.5
16400.7	62.5°	14259.0	10604.8	1962.7	908.7	933.8	992.5	1056.8	1037.3	1009.3	1062.4
16392.3	65°	13649.5	9947.8	1403.5	830.4	869.5	928.2	1009.3	1031.7	1040.1	1143.5
15055.9	67.5°	12145.3	8661.7	1031.7	766.1	802.4	889.1	1042.9	1079.2	1073.6	1202.2
12634.6	70°	9718.5	6774.4	805.2	713.0	777.3	919.8	1090.4	1090.4	1051.3	1202.2
9637.4	72.5°	7070.8	4775.4	693.4	651.4	713.0	844.4	1084.8	1082.0	1031.7	1098.8
6137.0	75°	4280.5	2779.1	612.3	589.9	612.3	724.1	1037.3	1020.5	950.6	945.0
2952.5	77.5°	2133.3	1397.9	500.5	522.8	534.0	606.7	911.5	936.6	841.6	819.2
1165.9	80°	900.3	609.5	416.6	450.1	450.1	511.6	757.7	774.5	699.0	657.0
461.3	82.5°	411.0	349.5	355.1	391.4	366.3	397.0	601.1	620.7	567.6	497.7
195.7	85°	173.3	198.5	271.2	307.5	271.2	257.2	413.8	436.2	369.1	307.5
83.9	87.5°	78.3	109.0	170.5	223.7	137.0	120.2	220.9	229.3	184.5	137.0
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>
3206.9
3204.1
3321.5
3438.9
3433.4
3343.9
3285.2
3223.7
3095.0
2930.1
2751.2
2488.3
2200.4
1912.4
1646.8
1448.3
1291.7
1151.9
1079.2
1037.3
1020.5
1020.5
1020.5
1020.5
1023.3
1048.5
1143.5
1210.6
1177.1
1059.6
933.8
805.2
643.1
486.5
310.3
128.6
0.0

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