

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: P477794

Luminaire Tested: **IFLD-L-SA7D-740-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477794  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

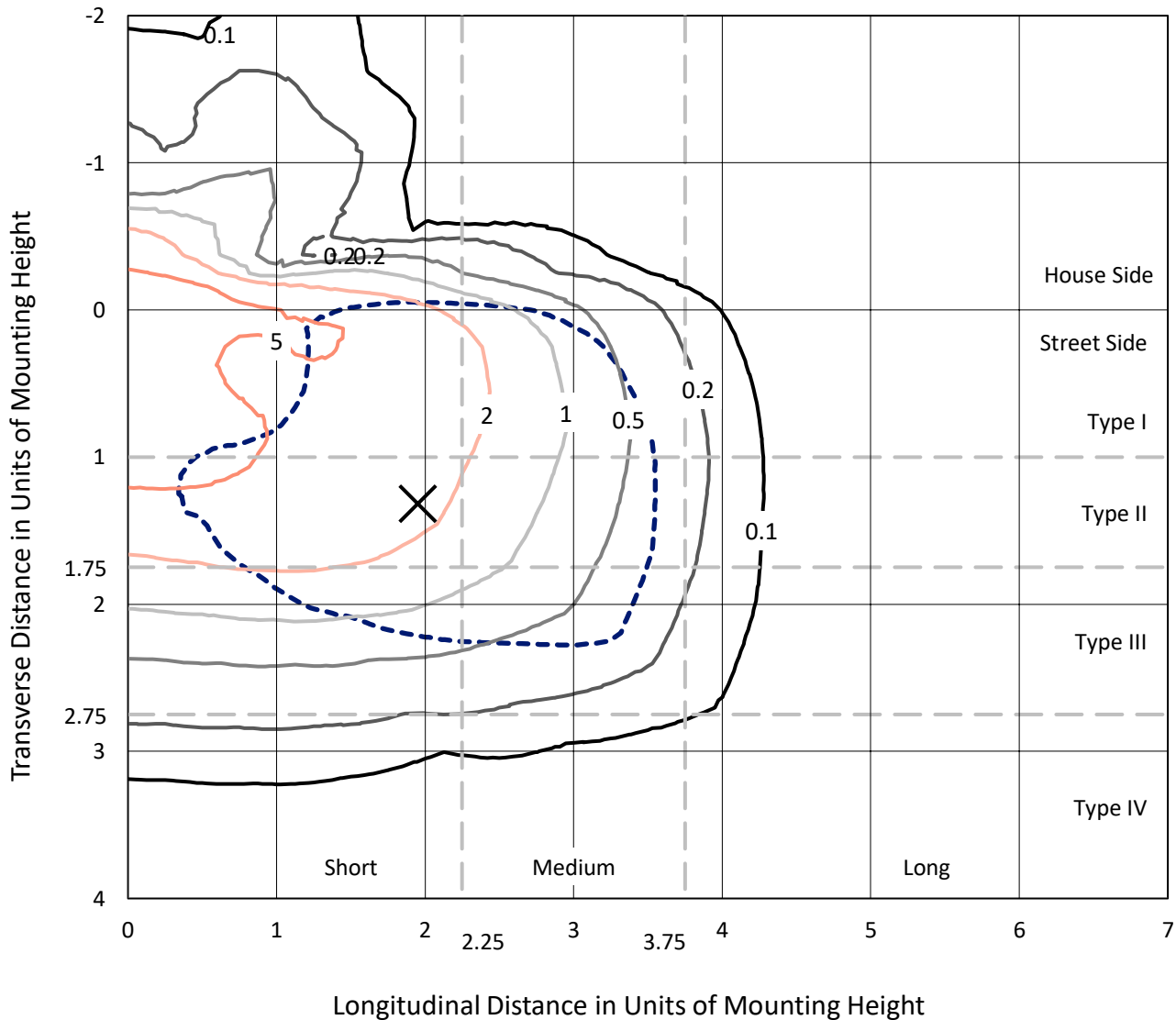
Lumens per Lamp: N/A  
Luminaire Lumens: 47915.5 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

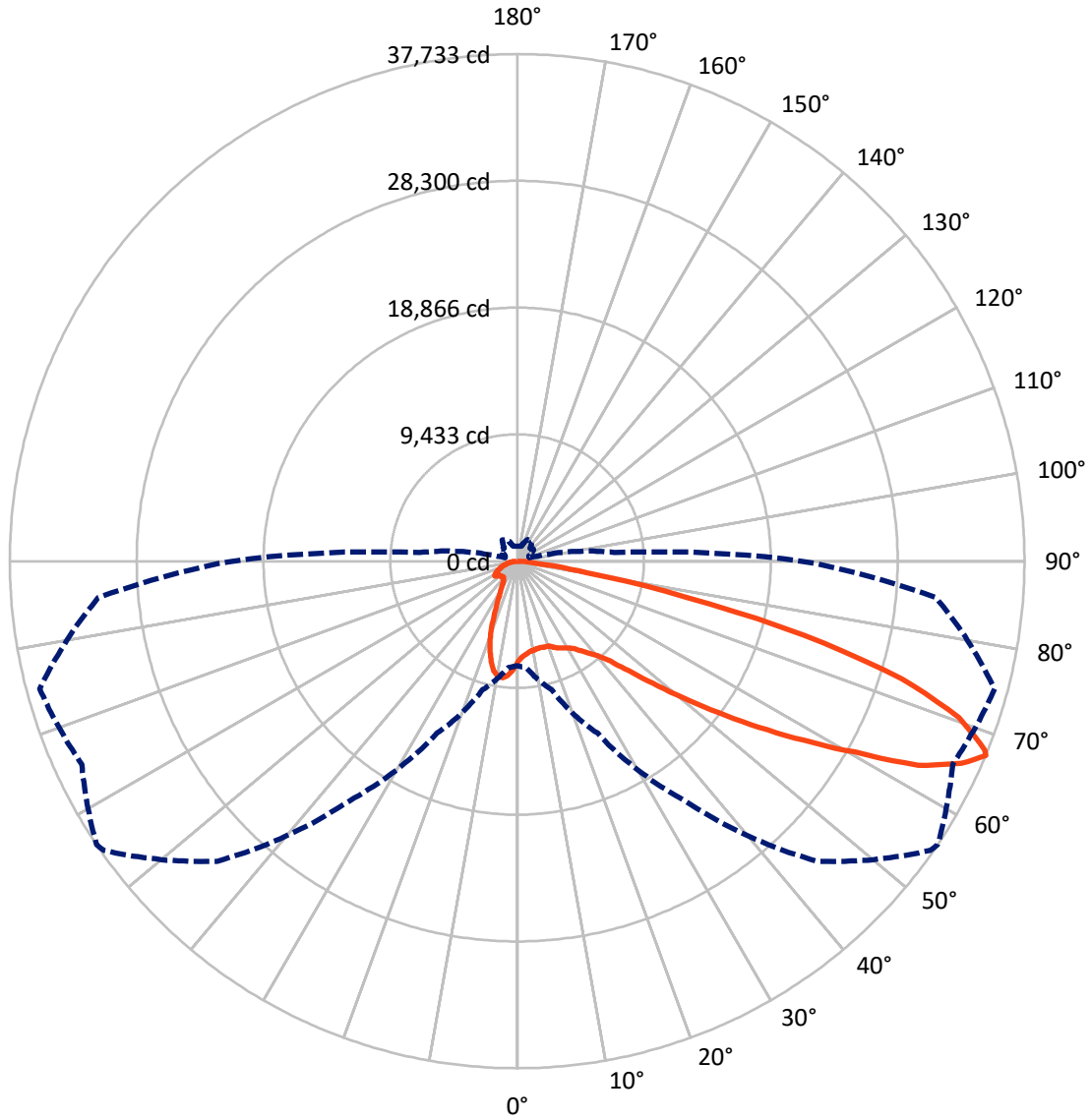
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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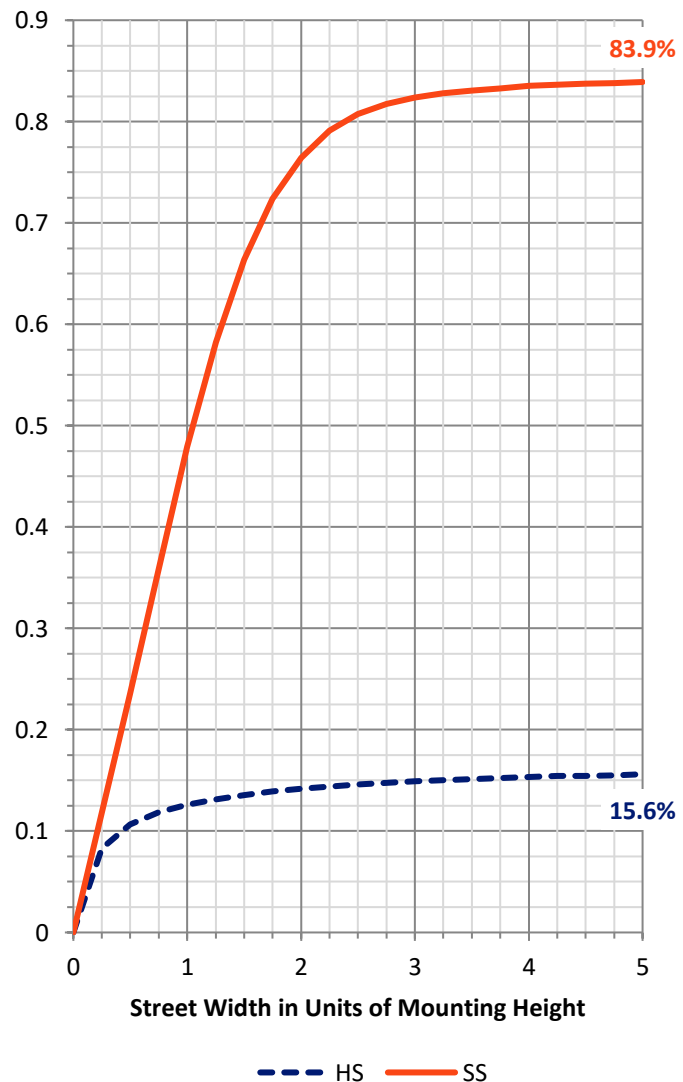
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7585.5	0.0	7585.5
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	40330.0	0.0	40330.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	47915.5	0.0	47915.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	718.2	1.5
10°-20°	1959.5	4.1
20°-30°	3073.0	6.4
30°-40°	4386.8	9.2
40°-50°	6620.9	13.8
50°-60°	10539.3	22.0
60°-70°	13473.7	28.1
70°-80°	6569.3	13.7
80°-90°	574.7	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°	47915.5	100.0
0°-180°	47915.5	100.0

**Coefficient of Utilization**

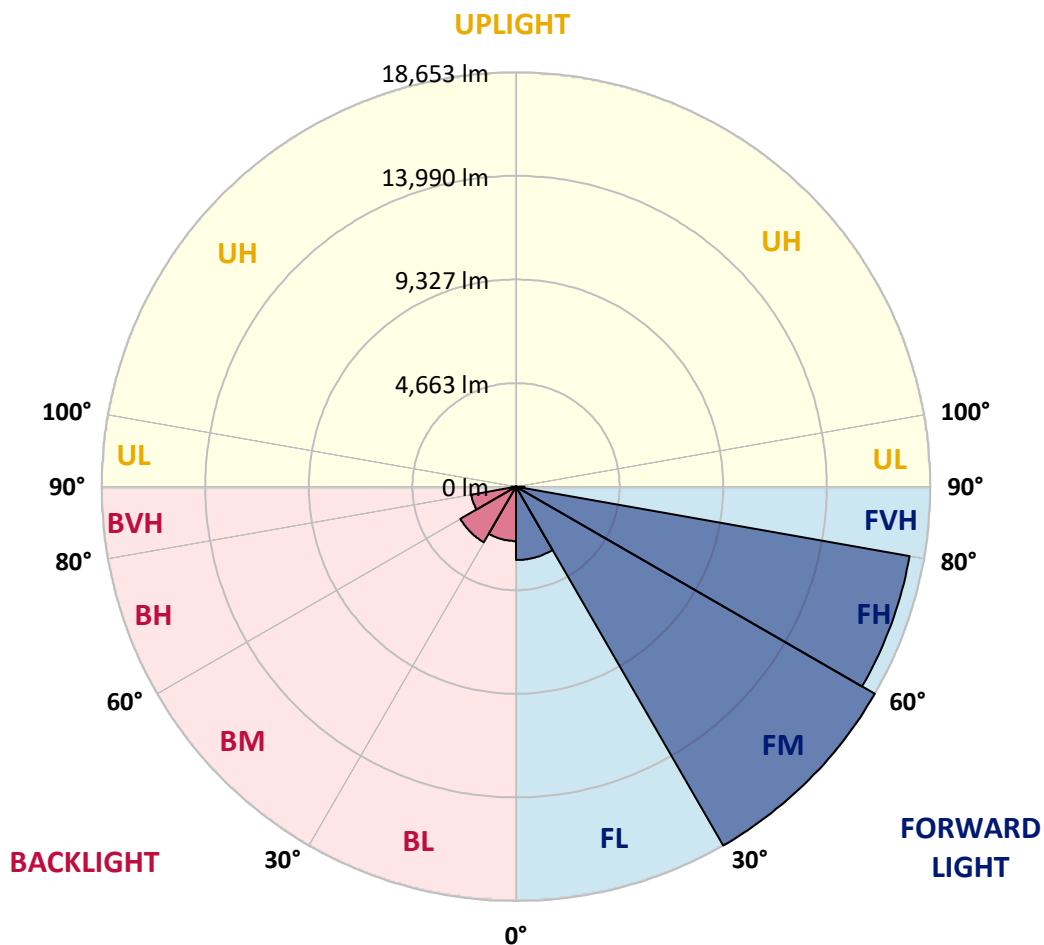


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3301.9	6.9			
FM (30°-60°)	18653.1	38.9			
FH (60°-80°)	17993.3	37.6			G5
FVH (80°-90°)	381.7	0.8			G3/500
BL (0°-30°)	2448.8	5.1	B3/2500		
BM (30°-60°)	2894.0	6.0	B3/5000		
BH (60°-80°)	2049.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	193.0	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°	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5
2.5°	6848.7	6820.7	6854.4	6820.7	6972.4	7062.2	7090.3	7129.7	7270.1	7405.0
5°	6562.2	6438.6	6573.5	6618.4	6629.6	6781.3	6938.6	6966.7	7039.8	7258.9
7.5°	6084.7	6225.1	6174.5	6309.4	6449.8	6601.5	6860.0	6786.9	7056.6	7264.5
10°	5983.5	5994.8	6050.9	6101.5	6225.1	6421.8	6781.3	6736.4	7011.7	7455.5
12.5°	6084.7	6084.7	6067.8	6028.5	6168.9	6360.0	6646.5	6669.0	7101.6	7511.7
15°	6438.6	6506.0	6326.2	6354.3	6298.2	6360.0	6612.8	6663.3	7135.3	7556.7
17.5°	7303.8	7281.4	7067.9	6770.1	6522.9	6483.6	6657.7	6713.9	7101.6	7685.9
20°	8146.6	8101.6	7730.8	7421.8	6933.0	6702.7	6730.8	6736.4	7157.8	7770.2
22.5°	9084.8	9202.8	8798.3	8169.1	7562.3	6989.2	6876.8	6966.7	7287.0	7815.1
25°	10556.8	10304.0	9955.7	9129.8	8152.2	7433.1	7118.4	7163.4	7410.6	7927.5
27.5°	11618.7	11517.6	10972.6	10304.0	8978.1	7781.4	7247.7	7331.9	7635.3	7921.9
30°	12641.3	12641.3	12309.8	11309.7	9848.9	8365.7	7522.9	7483.6	7528.6	7910.6
32.5°	13838.0	13675.0	13197.5	12534.5	10944.5	8899.4	7742.1	7753.3	7753.3	8118.5
35°	14467.2	14731.3	14411.0	13332.3	11781.6	9787.1	8270.2	8185.9	8124.1	8348.8
37.5°	15388.6	15545.9	15208.8	14574.0	12821.0	10506.3	8736.5	8669.1	8309.5	8528.6
40°	15944.8	15916.7	15905.5	15613.4	14197.5	11354.7	9421.9	9247.8	8764.6	9163.5
42.5°	16259.5	16203.3	16894.3	16714.5	15495.4	12601.9	10281.6	10186.0	9652.3	10292.8
45°	16613.4	17029.2	17596.6	18102.3	17006.7	14354.8	11736.7	11601.9	11124.3	11939.0
47.5°	16922.4	17433.7	18158.5	18697.8	18372.0	16259.5	13534.6	13568.3	13253.7	14090.8
50°	17439.3	17489.9	18473.1	19563.0	19815.9	18018.0	15950.5	15894.3	15753.8	16928.0
52.5°	17282.0	17433.7	18675.3	20068.7	20484.4	19877.7	18546.1	18714.7	18529.3	20006.9
55°	14720.0	15175.1	18551.7	20602.4	22068.8	21978.9	21883.4	21771.0	21759.8	23467.8
57.5°	13557.0	13927.9	16343.7	21192.4	23765.6	24428.5	25046.5	25170.1	25164.5	27226.4
60°	12792.9	13175.0	15450.4	20872.1	25209.5	27636.6	28822.1	28838.9	28805.2	31243.6
62.5°	11298.5	11669.3	13905.4	19119.2	25608.4	30597.4	33238.1	33457.2	31912.1	34704.5
65°	9500.6	9804.0	11776.0	16439.2	24546.5	32479.6	36558.5	36300.1	34530.3	36682.1
67°	7770.2	7972.4	9893.9	14113.3	21771.0	31575.0	37519.2	37732.7	35738.2	36766.4
67.5°	7275.7	7461.1	9275.9	13321.1	20714.8	30889.6	37552.9	37519.2	35760.7	36783.2
70°	5050.9	5129.5	6320.6	9163.5	15259.4	26097.2	34811.2	34889.9	34260.6	34788.7
72.5°	3348.5	3466.5	4225.0	5775.6	8995.0	18990.0	29097.4	29940.1	29541.2	28524.3
75°	2157.4	2224.9	2764.2	3438.4	4427.2	10815.3	21495.7	22057.6	21141.8	17641.6
77.5°	1207.9	1281.0	1668.6	2090.0	2157.4	4500.3	12073.8	12770.5	10820.9	7494.9
80°	752.9	848.4	1258.5	1241.7	1028.2	1651.8	4977.8	5331.8	4326.1	2578.8
82.5°	567.5	640.5	972.0	870.8	578.7	736.0	1865.3	2000.1	1584.4	994.4
85°	387.7	488.8	702.3	539.4	303.4	354.0	741.6	797.8	724.8	483.2
87.5°	140.5	207.9	365.2	269.7	134.8	106.7	241.6	269.7	258.4	219.1
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°
7455.5	0°	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5	7455.5
7522.9	2.5°	7629.7	7708.4	7747.7	7978.0	8073.5	8056.7	8079.2	8112.9	8146.6	8191.5
7618.5	5°	7691.5	7933.1	8062.3	8332.0	8511.8	8433.1	8534.2	8506.2	8466.8	8461.2
7792.6	7.5°	7893.8	8202.8	8590.4	8663.5	8742.1	8545.5	8376.9	8146.6	8090.4	7893.8
7938.7	10°	8253.3	8506.2	8978.1	9006.2	8657.9	8152.2	7775.8	7298.2	7292.6	7006.1
8163.4	12.5°	8596.1	8882.6	9264.6	9101.7	8270.2	7579.1	6966.7	6444.2	6225.1	6079.0
8298.3	15°	8809.5	9281.5	9483.7	8781.5	7590.4	6657.7	5865.5	5303.7	5079.0	4972.2
8466.8	17.5°	9006.2	9663.5	9573.6	8219.6	6753.2	5708.2	4764.3	4275.6	4213.8	4135.1
8736.5	20°	9275.9	9804.0	9253.4	7489.2	5803.7	4483.4	3882.3	3646.3	3702.5	3736.2
8764.6	22.5°	9528.7	9877.0	8848.9	6691.4	4584.6	3550.8	3253.0	3303.6	3387.9	3500.2
8832.0	25°	9641.1	9995.0	8303.9	5590.2	3489.0	2989.0	2921.5	3005.8	3146.3	3151.9
8927.5	27.5°	9714.1	9910.7	7646.6	4517.1	2758.6	2612.5	2713.7	2775.5	2792.3	2859.7
9129.8	30°	9843.3	9736.6	6815.0	3230.5	2314.8	2320.4	2449.6	2449.6	2449.6	2500.2
9332.1	32.5°	10068.1	9618.6	5843.1	2359.7	1994.5	2174.3	2140.6	2129.3	2106.9	2045.1
9590.5	35°	10208.5	9298.3	4612.7	1747.3	1792.2	1994.5	1983.3	1809.1	1517.0	1370.9
10247.8	37.5°	10500.7	9135.4	3393.5	1348.4	1674.3	1904.6	1842.8	1421.4	1101.2	960.7
11062.5	40°	11129.9	9028.7	2348.5	1179.9	1595.6	1859.7	1646.2	1213.6	842.8	595.5
12321.0	42.5°	11899.6	9034.3	1595.6	1112.4	1601.2	1955.2	1584.4	1039.4	595.5	477.6
14000.9	45°	12933.4	8950.0	1095.6	1112.4	1702.4	2112.5	1623.7	943.9	578.7	606.8
16107.8	47.5°	14045.8	9023.0	814.7	1011.3	1719.2	2118.1	1483.2	927.0	556.2	702.3
18400.0	50°	15343.7	9096.1	674.2	932.6	1724.8	2050.7	1365.3	904.6	578.7	741.6
21029.4	52.5°	16680.8	9326.4	573.1	882.1	1792.2	2022.6	1365.3	938.3	578.7	646.1
24378.0	55°	18675.3	9916.4	825.9	1101.2	2039.5	2208.0	1679.9	1314.7	809.0	831.5
27586.0	57.5°	20877.7	10523.1	921.4	1157.4	2095.6	1988.9	1809.1	1449.5	854.0	859.6
30080.6	60°	22327.3	10545.6	915.8	1129.3	1960.8	1719.2	1769.8	1528.2	870.8	736.0
31625.6	62.5°	22905.9	9860.2	955.1	1129.3	1826.0	1606.8	1814.7	1646.2	898.9	921.4
32063.8	65°	22248.6	8444.4	921.4	1011.3	1606.8	1438.3	1826.0	1668.6	983.2	927.0
31277.3	67°	21220.4	7275.7	938.3	960.7	1494.5	1365.3	1921.5	1752.9	1140.5	1112.4
30867.1	67.5°	20928.3	6966.7	932.6	932.6	1455.1	1342.8	1943.9	1752.9	1163.0	1151.8
27243.3	70°	18445.0	5646.4	955.1	921.4	1286.6	1275.4	2067.5	1848.4	1337.2	1348.4
20012.5	72.5°	14040.2	4281.2	949.5	921.4	1118.0	1219.2	2084.4	1910.2	1455.1	1348.4
11208.6	75°	7978.0	2562.0	837.1	803.4	882.1	1061.9	1949.6	1820.3	1415.8	1207.9
4477.8	77.5°	3298.0	1320.3	769.7	724.8	730.4	865.2	1623.7	1696.7	1348.4	1028.2
1494.5	80°	1230.4	792.2	618.0	578.7	561.8	634.9	1157.4	1354.0	1151.8	842.8
657.3	82.5°	640.5	494.4	421.4	421.4	382.0	404.5	623.6	898.9	870.8	578.7
264.1	85°	325.9	280.9	241.6	236.0	213.5	191.0	314.6	533.7	500.0	320.2
118.0	87.5°	174.2	157.3	101.1	95.5	78.7	50.6	56.2	106.7	174.2	140.5
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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180°  
7455.5  
8236.5  
8511.8  
7961.2  
6994.8  
6045.3  
4949.8  
4174.4  
3696.9  
3438.4  
3208.1  
2921.5  
2556.3  
2011.4  
1438.3  
955.1  
578.7  
466.3  
618.0  
780.9  
859.6  
663.0  
876.5  
831.5  
758.5  
932.6  
910.2  
*1095.6*  
1129.3  
1247.3  
1196.7  
1078.7  
972.0  
769.7  
455.1  
264.1  
101.1  
0.0

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