

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: P477637

Luminaire Tested: **IFLD-L-SA7C-722-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477637  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-722-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

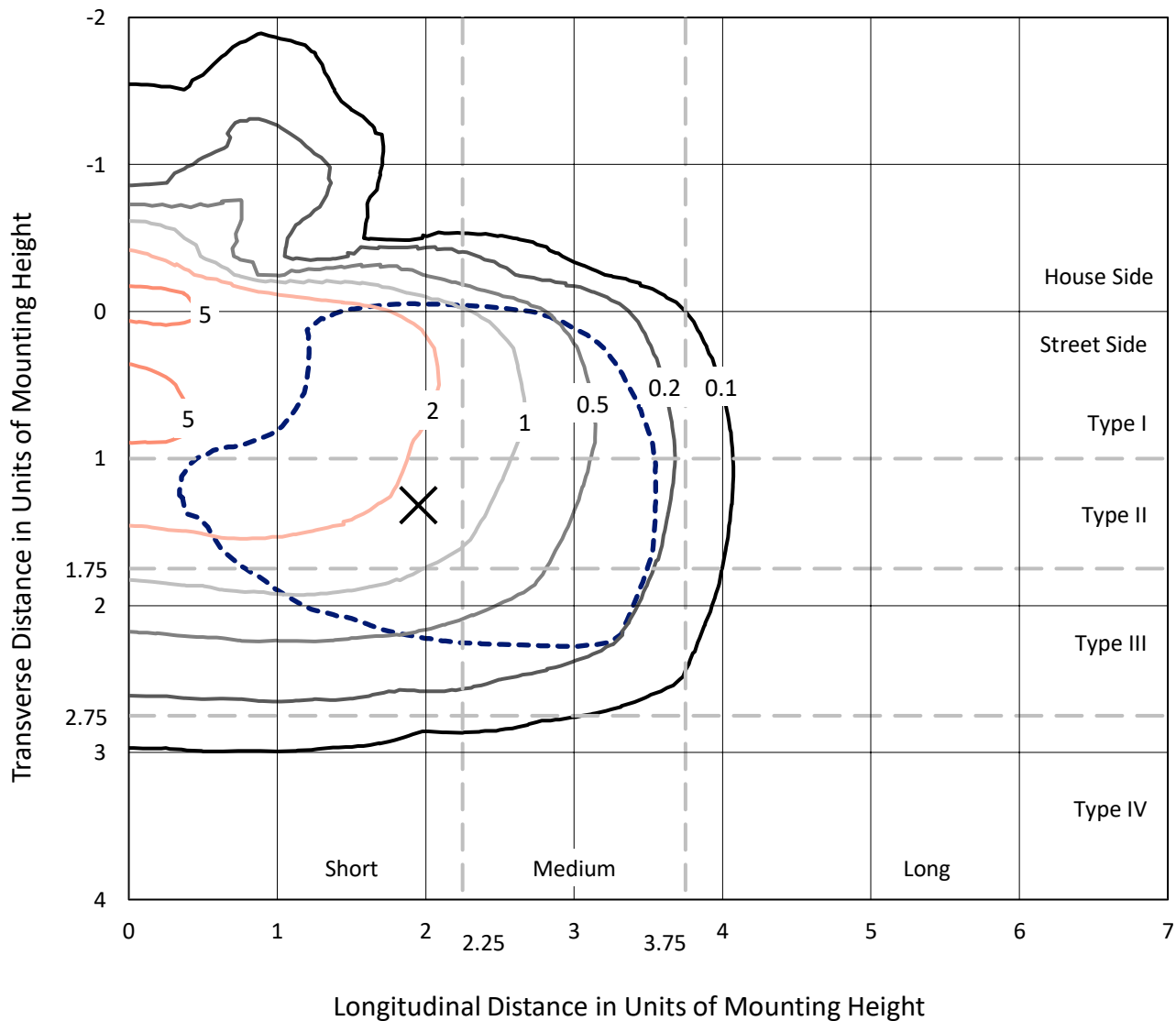
Lumens per Lamp: N/A  
Luminaire Lumens: 32076 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
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

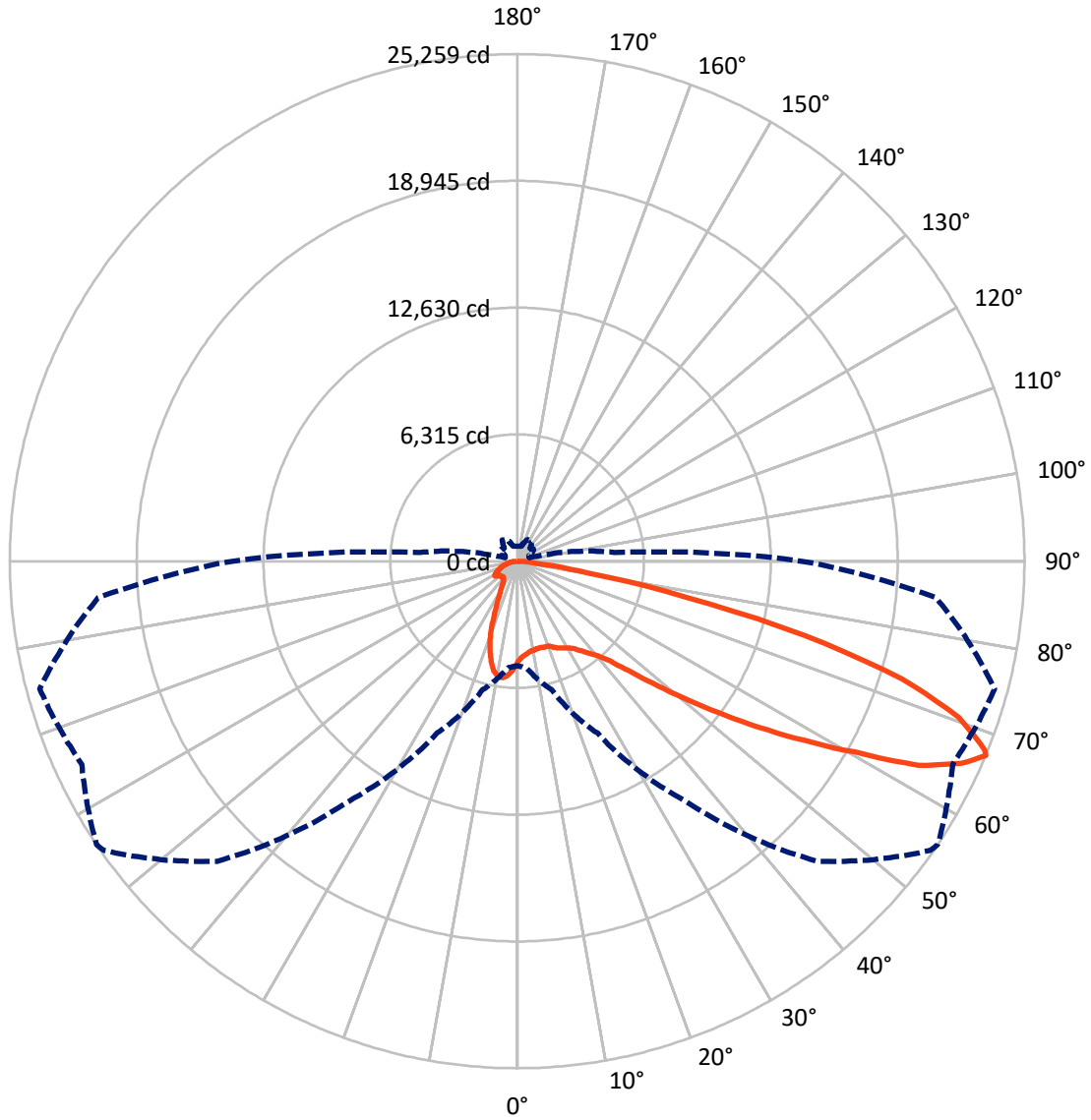
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	5078.0	0.0	5078.0
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	26998.1	0.0	26998.1
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	32076.0	0.0	32076.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.8	1.5
10°-20°	1311.7	4.1
20°-30°	2057.2	6.4
30°-40°	2936.6	9.2
40°-50°	4432.2	13.8
50°-60°	7055.3	22.0
60°-70°	9019.7	28.1
70°-80°	4397.7	13.7
80°-90°	384.7	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°	32076.0	100.0
0°-180°	32076.0	100.0

**Coefficient of Utilization**

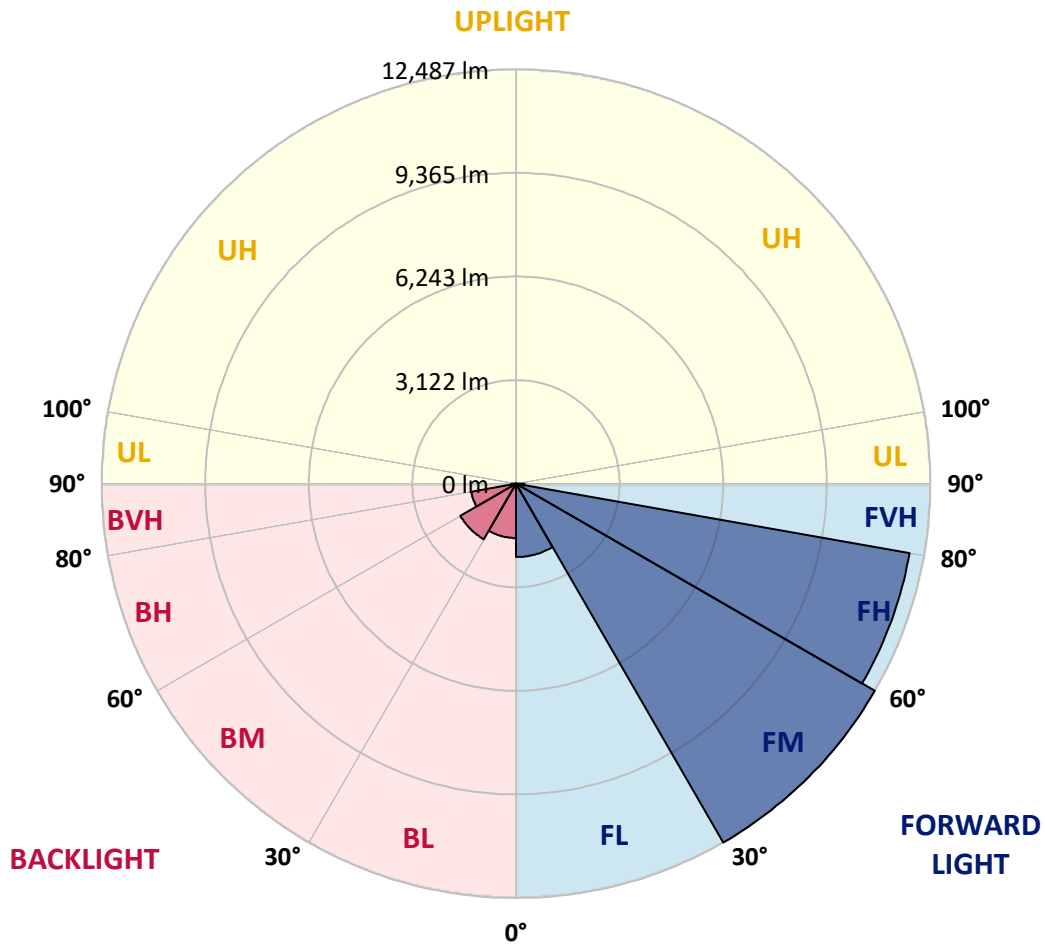


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.4	6.9			
FM (30°-60°)	12486.9	38.9			
FH (60°-80°)	12045.3	37.6			G5
FVH (80°-90°)	255.5	0.8			G3/500
BL (0°-30°)	1639.3	5.1	B3/2500		
BM (30°-60°)	1937.3	6.0	B2/2500		
BH (60°-80°)	1372.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	129.2	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°	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9
2.5°	4584.7	4565.9	4588.5	4565.9	4667.5	4727.7	4746.5	4772.8	4866.8	4957.1
5°	4392.9	4310.2	4400.5	4430.5	4438.1	4539.6	4644.9	4663.7	4712.6	4859.3
7.5°	4073.2	4167.3	4133.4	4223.7	4317.7	4419.3	4592.3	4543.4	4723.9	4863.1
10°	4005.5	4013.1	4050.7	4084.5	4167.3	4298.9	4539.6	4509.5	4693.8	4990.9
12.5°	4073.2	4073.2	4062.0	4035.6	4129.7	4257.5	4449.4	4464.4	4754.0	5028.6
15°	4310.2	4355.3	4235.0	4253.8	4216.2	4257.5	4426.8	4460.6	4776.6	5058.6
17.5°	4889.4	4874.4	4731.4	4532.1	4366.6	4340.3	4456.9	4494.5	4754.0	5145.1
20°	5453.6	5423.5	5175.2	4968.4	4641.2	4487.0	4505.8	4509.5	4791.6	5201.6
22.5°	6081.7	6160.6	5889.8	5468.6	5062.4	4678.8	4603.6	4663.7	4878.1	5231.7
25°	7067.1	6897.8	6664.6	6111.7	5457.3	4975.9	4765.3	4795.4	4960.9	5306.9
27.5°	7777.9	7710.2	7345.4	6897.8	6010.2	5209.1	4851.8	4908.2	5111.3	5303.1
30°	8462.4	8462.4	8240.5	7571.0	6593.2	5600.2	5036.1	5009.8	5039.8	5295.6
32.5°	9263.5	9154.5	8834.8	8391.0	7326.6	5957.5	5182.8	5190.3	5190.3	5434.8
35°	9684.8	9861.5	9647.2	8925.0	7887.0	6551.8	5536.3	5479.9	5438.5	5589.0
37.5°	10301.6	10406.9	10181.2	9756.2	8582.8	7033.2	5848.5	5803.3	5562.6	5709.3
40°	10673.9	10655.1	10647.6	10452.0	9504.2	7601.1	6307.3	6190.7	5867.3	6134.3
42.5°	10884.5	10846.9	11309.5	11189.2	10373.0	8436.1	6882.8	6818.8	6461.5	6890.3
45°	11121.5	11399.8	11779.7	12118.2	11384.8	9609.5	7856.9	7766.6	7446.9	7992.3
47.5°	11328.4	11670.6	12155.8	12516.9	12298.7	10884.5	9060.4	9083.0	8872.4	9432.8
50°	11674.4	11708.2	12366.4	13096.1	13265.3	12061.8	10677.7	10640.1	10546.1	11332.1
52.5°	11569.1	11670.6	12501.8	13434.6	13712.9	13306.7	12415.3	12528.1	12404.0	13393.2
55°	9854.0	10158.7	12419.1	13791.9	14773.5	14713.3	14649.4	14574.2	14566.6	15710.0
57.5°	9075.5	9323.7	10941.0	14186.8	15909.3	16353.1	16766.9	16849.6	16845.8	18226.2
60°	8564.0	8819.7	10343.0	13972.4	16875.9	18500.7	19294.3	19305.6	19283.0	20915.3
62.5°	7563.5	7811.8	9308.7	12798.9	17143.0	20482.8	22250.5	22397.2	21362.9	23232.2
65°	6360.0	6563.1	7883.2	11004.9	16432.1	21742.8	24473.3	24300.3	23115.6	24556.1
67°	5201.6	5337.0	6623.3	9447.8	14574.2	21137.2	25116.5	25259.4	23924.2	24612.5
67.5°	4870.6	4994.7	6209.5	8917.5	13867.1	20678.4	25139.0	25116.5	23939.2	24623.8
70°	3381.2	3433.9	4231.2	6134.3	10215.1	17470.2	23303.6	23356.3	22935.0	23288.6
72.5°	2241.6	2320.6	2828.3	3866.4	6021.5	12712.4	19478.6	20042.8	19775.7	19095.0
75°	1444.3	1489.4	1850.4	2301.8	2963.7	7240.1	14389.9	14766.0	14152.9	11809.8
77.5°	808.6	857.5	1117.0	1399.1	1444.3	3012.6	8082.5	8548.9	7243.8	5017.3
80°	504.0	567.9	842.5	831.2	688.3	1105.8	3332.3	3569.3	2896.0	1726.3
82.5°	379.9	428.8	650.7	583.0	387.4	492.7	1248.7	1338.9	1060.6	665.7
85°	259.5	327.2	470.1	361.1	203.1	236.9	496.5	534.1	485.2	323.5
87.5°	94.0	139.2	244.5	180.5	90.3	71.5	161.7	180.5	173.0	146.7
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°
4990.9	0°	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9	4990.9
5036.1	2.5°	5107.5	5160.2	5186.5	5340.7	5404.7	5393.4	5408.4	5431.0	5453.6	5483.6
5100.0	5°	5148.9	5310.6	5397.1	5577.7	5698.0	5645.4	5713.1	5694.3	5667.9	5664.2
5216.6	7.5°	5284.3	5491.2	5750.7	5799.6	5852.2	5720.6	5607.8	5453.6	5415.9	5284.3
5314.4	10°	5525.0	5694.3	6010.2	6029.0	5795.8	5457.3	5205.3	4885.6	4881.9	4690.1
5464.8	12.5°	5754.4	5946.3	6202.0	6092.9	5536.3	5073.7	4663.7	4314.0	4167.3	4069.5
5555.1	15°	5897.4	6213.3	6348.7	5878.6	5081.2	4456.9	3926.6	3550.5	3400.0	3328.6
5667.9	17.5°	6029.0	6469.0	6408.9	5502.5	4520.8	3821.3	3189.4	2862.2	2820.8	2768.2
5848.5	20°	6209.5	6563.1	6194.5	5013.5	3885.2	3001.3	2598.9	2440.9	2478.5	2501.1
5867.3	22.5°	6378.8	6612.0	5923.7	4479.4	3069.0	2377.0	2177.7	2211.5	2267.9	2343.1
5912.4	25°	6454.0	6691.0	5558.9	3742.3	2335.6	2000.9	1955.8	2012.2	2106.2	2110.0
5976.3	27.5°	6502.9	6634.5	5118.8	3023.9	1846.7	1748.9	1816.6	1858.0	1869.3	1914.4
6111.7	30°	6589.4	6517.9	4562.2	2162.6	1549.6	1553.3	1639.8	1639.8	1639.8	1673.7
6247.1	32.5°	6739.8	6439.0	3911.5	1579.7	1335.2	1455.5	1433.0	1425.4	1410.4	1369.0
6420.2	35°	6833.9	6224.6	3087.8	1169.7	1199.8	1335.2	1327.7	1211.1	1015.5	917.7
6860.2	37.5°	7029.4	6115.5	2271.7	902.7	1120.8	1275.0	1233.6	951.6	737.2	643.1
7405.6	40°	7450.7	6044.0	1572.1	789.8	1068.1	1244.9	1102.0	812.4	564.2	398.7
8248.0	42.5°	7966.0	6047.8	1068.1	744.7	1071.9	1308.9	1060.6	695.8	398.7	319.7
9372.6	45°	8658.0	5991.4	733.4	744.7	1139.6	1414.2	1087.0	631.9	387.4	406.2
10783.0	47.5°	9402.7	6040.3	545.4	677.0	1150.9	1417.9	992.9	620.6	372.3	470.1
12317.5	50°	10271.5	6089.2	451.3	624.3	1154.6	1372.8	913.9	605.5	387.4	496.5
14077.7	52.5°	11166.6	6243.4	383.6	590.5	1199.8	1354.0	913.9	628.1	387.4	432.5
16319.3	55°	12501.8	6638.3	552.9	737.2	1365.3	1478.1	1124.6	880.1	541.6	556.6
18466.9	57.5°	13976.2	7044.5	616.8	774.8	1402.9	1331.4	1211.1	970.4	571.7	575.4
20136.8	60°	14946.5	7059.5	613.1	756.0	1312.6	1150.9	1184.7	1023.0	583.0	492.7
21171.1	62.5°	15333.9	6600.7	639.4	756.0	1222.3	1075.7	1214.8	1102.0	601.8	616.8
21464.4	65°	14893.9	5652.9	616.8	677.0	1075.7	962.8	1222.3	1117.0	658.2	620.6
20937.9	67°	14205.6	4870.6	628.1	643.1	1000.4	913.9	1286.3	1173.5	763.5	744.7
20663.3	67.5°	14010.0	4663.7	624.3	624.3	974.1	898.9	1301.3	1173.5	778.5	771.0
18237.4	70°	12347.6	3779.9	639.4	616.8	861.3	853.8	1384.1	1237.4	895.1	902.7
13396.9	72.5°	9398.9	2865.9	635.6	616.8	748.5	816.2	1395.4	1278.8	974.1	902.7
7503.3	75°	5340.7	1715.0	560.4	537.8	590.5	710.8	1305.1	1218.6	947.8	808.6
2997.6	77.5°	2207.8	883.9	515.3	485.2	488.9	579.2	1087.0	1135.8	902.7	688.3
1000.4	80°	823.7	530.3	413.7	387.4	376.1	425.0	774.8	906.4	771.0	564.2
440.0	82.5°	428.8	331.0	282.1	282.1	255.8	270.8	417.5	601.8	583.0	387.4
176.8	85°	218.1	188.1	161.7	158.0	142.9	127.9	210.6	357.3	334.7	214.4
79.0	87.5°	116.6	105.3	67.7	63.9	52.7	33.8	37.6	71.5	116.6	94.0
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>
4990.9
5513.7
5698.0
5329.4
4682.5
4046.9
3313.5
2794.5
2474.8
2301.8
2147.6
1955.8
1711.3
1346.5
962.8
639.4
387.4
312.2
413.7
522.8
575.4
443.8
586.7
556.6
507.7
624.3
609.3
733.4
756.0
835.0
801.1
722.1
650.7
515.3
304.6
176.8
67.7
0.0

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