

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: P477677

Luminaire Tested: **IFLD-L-SA7D-727-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477677  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-727-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

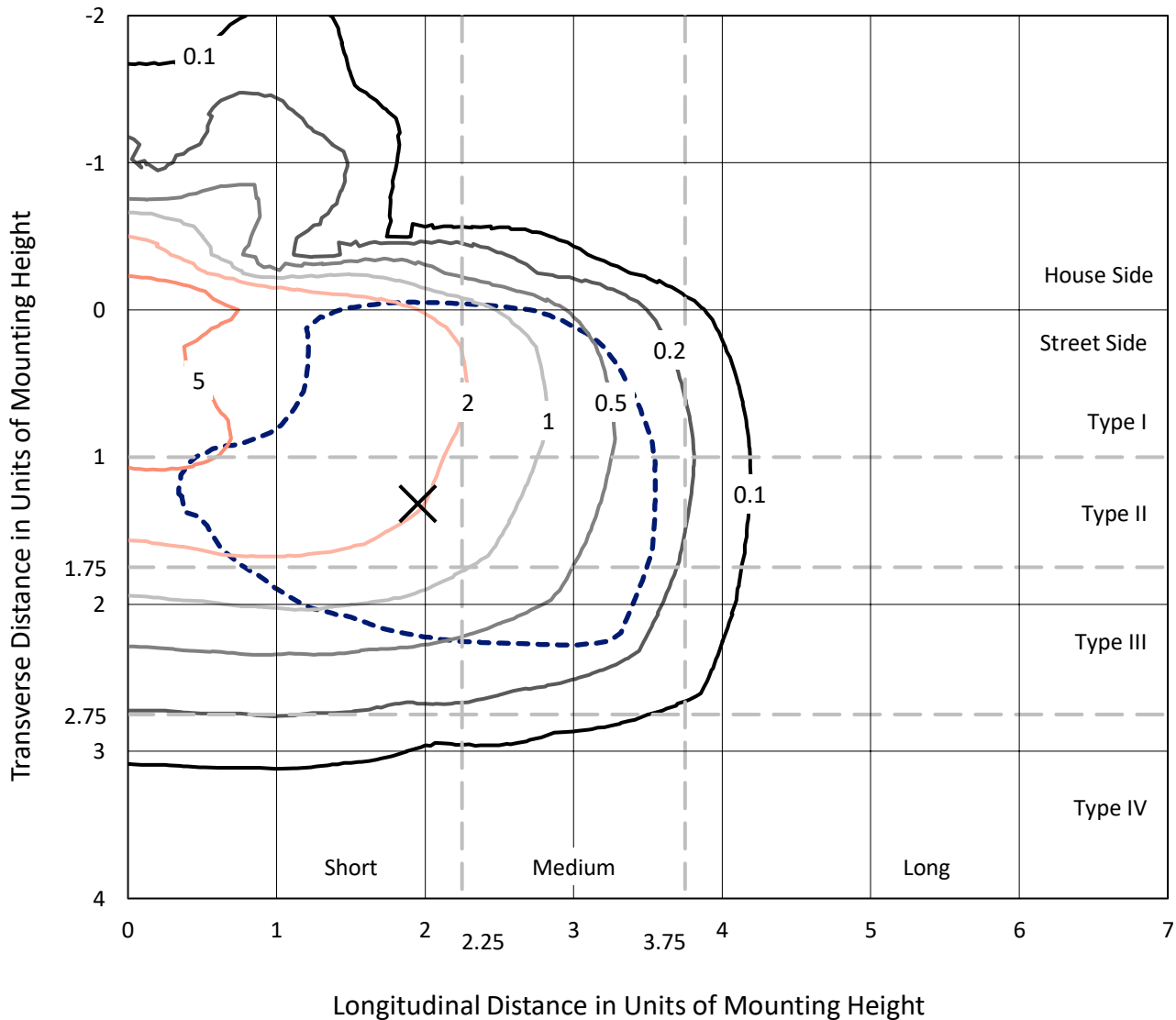
Lumens per Lamp: N/A  
Luminaire Lumens: 40071.8 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (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

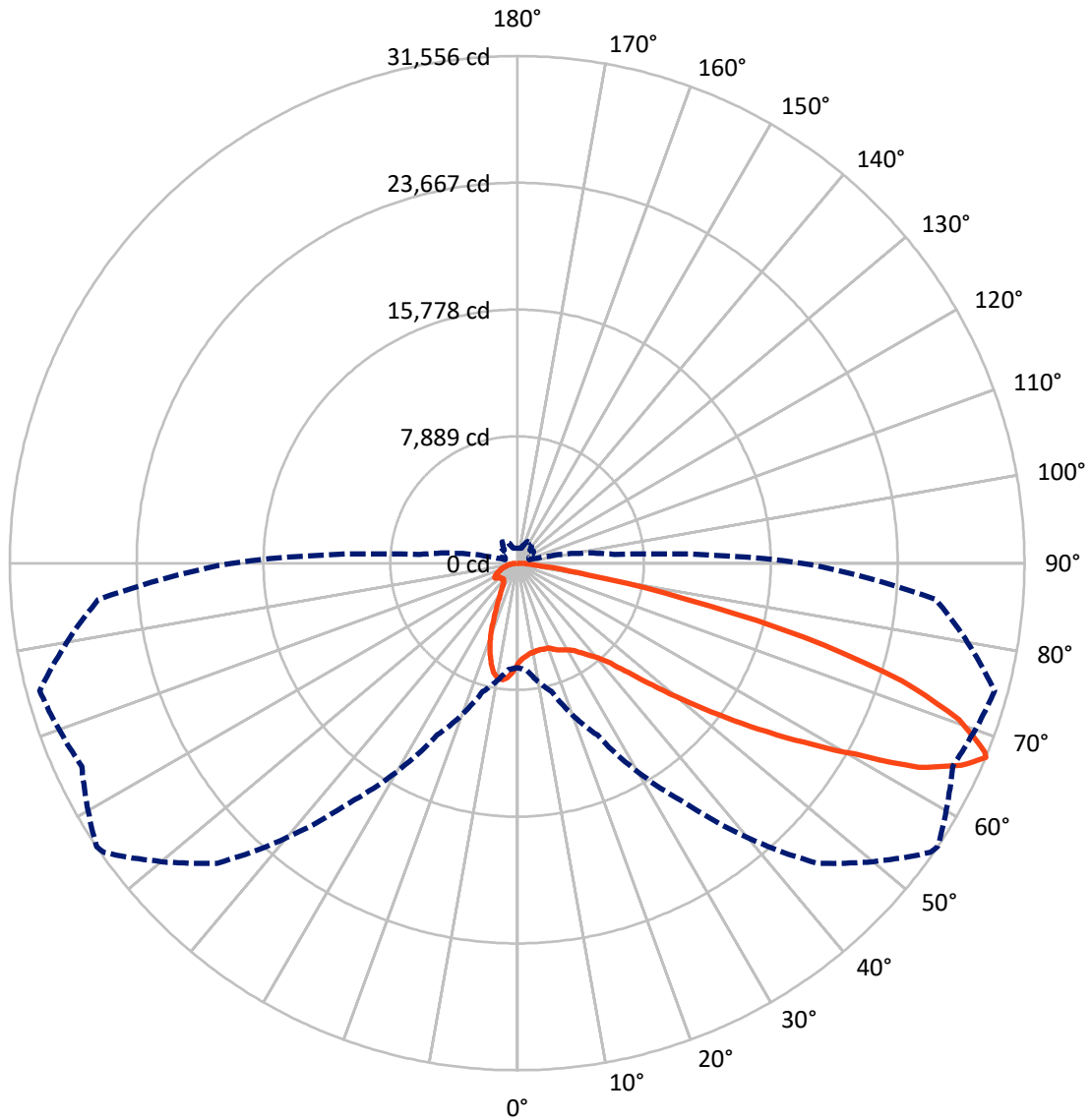
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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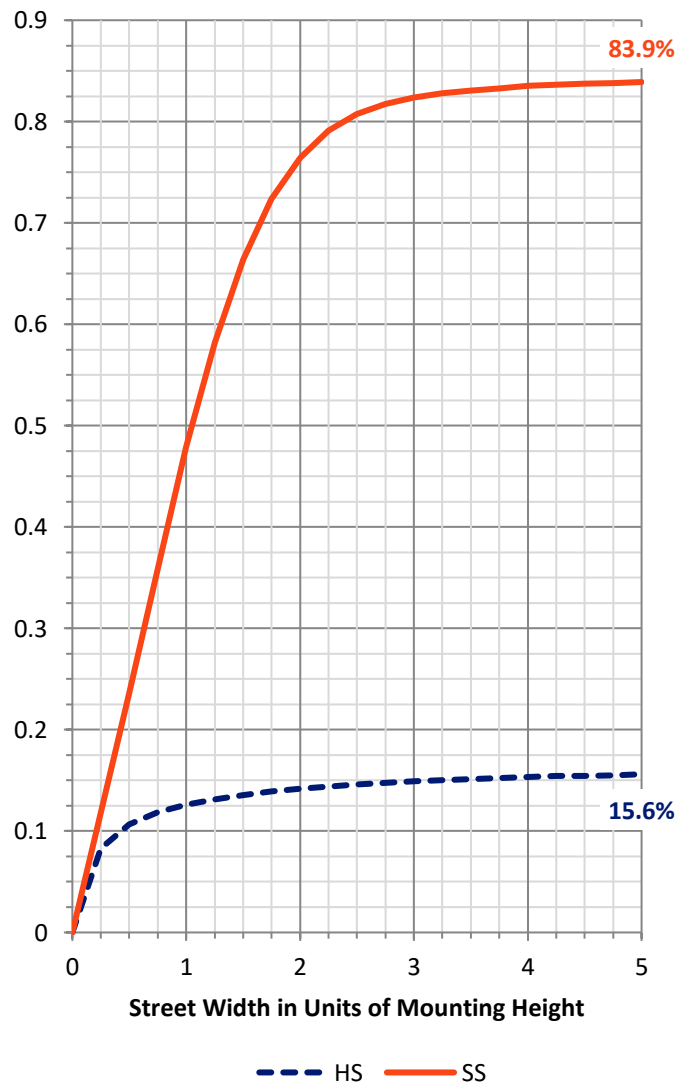
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6343.8	0.0	6343.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	33728.0	0.0	33728.0
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	40071.8	0.0	40071.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.7	1.5
10°-20°	1638.7	4.1
20°-30°	2570.0	6.4
30°-40°	3668.7	9.2
40°-50°	5537.1	13.8
50°-60°	8814.1	22.0
60°-70°	11268.1	28.1
70°-80°	5493.9	13.7
80°-90°	480.6	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°	40071.8	100.0
0°-180°	40071.8	100.0

**Coefficient of Utilization**



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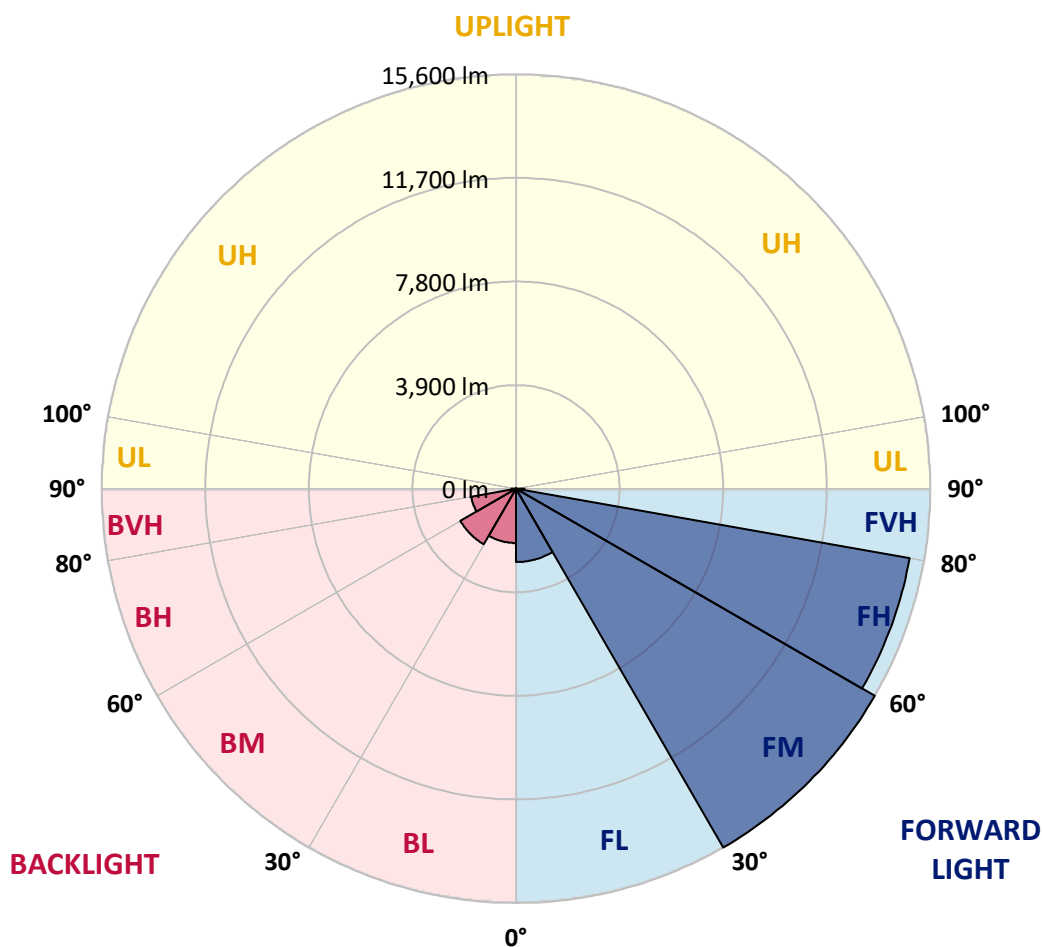
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2761.4	6.9			
FM (30°-60°)	15599.6	38.9			
FH (60°-80°)	15047.8	37.6			G5
FVH (80°-90°)	319.2	0.8			G3/500
BL (0°-30°)	2047.9	5.1	B3/2500		
BM (30°-60°)	2420.2	6.0	B2/2500		
BH (60°-80°)	1714.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	161.4	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°	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1
2.5°	5727.6	5704.1	5732.3	5704.1	5831.0	5906.2	5929.6	5962.5	6080.0	6192.8
5°	5488.0	5384.6	5497.4	5535.0	5544.4	5671.2	5802.8	5826.3	5887.4	6070.6
7.5°	5088.6	5206.1	5163.8	5276.5	5394.0	5520.9	5737.0	5675.9	5901.5	6075.3
10°	5004.0	5013.4	5060.4	5102.7	5206.1	5370.5	5671.2	5633.6	5863.9	6235.1
12.5°	5088.6	5088.6	5074.5	5041.6	5159.1	5318.8	5558.5	5577.3	5939.0	6282.0
15°	5384.6	5441.0	5290.6	5314.1	5267.1	5318.8	5530.3	5572.6	5967.2	6319.6
17.5°	6108.2	6089.4	5910.9	5661.8	5455.1	5422.2	5567.9	5614.8	5939.0	6427.7
20°	6813.0	6775.4	6465.3	6206.9	5798.1	5605.4	5628.9	5633.6	5986.0	6498.2
22.5°	7597.7	7696.3	7358.0	6831.8	6324.3	5845.1	5751.1	5826.3	6094.1	6535.8
25°	8828.7	8617.3	8325.9	7635.2	6817.7	6216.3	5953.1	5990.7	6197.5	6629.7
27.5°	9716.7	9632.2	9176.4	8617.3	7508.4	6507.6	6061.2	6131.7	6385.4	6625.0
30°	10571.9	10571.9	10294.7	9458.3	8236.7	6996.2	6291.4	6258.6	6296.1	6615.6
32.5°	11572.7	11436.4	11037.0	10482.6	9152.9	7442.6	6474.7	6484.1	6484.1	6789.5
35°	12098.9	12319.8	12051.9	11149.8	9853.0	8185.0	6916.4	6845.9	6794.2	6982.1
37.5°	12869.5	13001.1	12719.1	12188.2	10722.2	8786.4	7306.3	7250.0	6949.2	7132.5
40°	13334.7	13311.2	13301.8	13057.4	11873.4	9495.9	7879.6	7733.9	7329.8	7663.4
42.5°	13597.8	13550.8	14128.7	13978.4	12958.8	10539.0	8598.5	8518.6	8072.2	8607.9
45°	13893.8	14241.5	14716.1	15138.9	14222.7	12005.0	9815.4	9702.6	9303.3	9984.6
47.5°	14152.2	14579.8	15185.9	15637.0	15364.5	13597.8	11319.0	11347.2	11084.0	11784.1
50°	14584.5	14626.8	15449.0	16360.6	16572.0	15068.5	13339.4	13292.4	13174.9	14156.9
52.5°	14452.9	14579.8	15618.2	16783.4	17131.1	16623.7	15510.1	15651.1	15496.0	16731.8
55°	12310.4	12691.0	15514.8	17229.8	18456.2	18381.0	18301.1	18207.1	18197.7	19626.1
57.5°	11337.8	11647.9	13668.3	17723.2	19875.1	20429.6	20946.4	21049.8	21045.1	22769.5
60°	10698.7	11018.2	12921.2	17455.3	21082.7	23112.5	24103.9	24118.0	24089.8	26129.0
62.5°	9448.9	9759.0	11629.1	15989.4	21416.3	25588.6	27797.0	27980.2	26688.1	29023.3
65°	7945.4	8199.1	9848.3	13748.1	20528.2	27162.7	30573.9	30357.7	28877.7	30677.2
67°	6498.2	6667.3	8274.3	11802.9	18207.1	26406.2	31377.3	31555.9	29887.9	30747.7
67.5°	6084.7	6239.8	7757.4	11140.4	17323.8	25833.0	31405.5	31377.3	29906.7	30761.8
70°	4224.1	4289.8	5285.9	7663.4	12761.4	21825.1	29112.6	29178.4	28652.1	29093.8
72.5°	2800.4	2899.0	3533.4	4830.2	7522.5	15881.3	24334.1	25038.9	24705.3	23854.9
75°	1804.3	1860.7	2311.7	2875.6	3702.5	9044.8	17976.9	18446.8	17680.9	14753.6
77.5°	1010.2	1071.3	1395.5	1747.9	1804.3	3763.6	10097.3	10679.9	9049.5	6267.9
80°	629.6	709.5	1052.5	1038.4	859.8	1381.4	4163.0	4459.0	3617.9	2156.7
82.5°	474.6	535.6	812.9	728.3	484.0	615.5	1559.9	1672.7	1325.0	831.7
85°	324.2	408.8	587.3	451.1	253.7	296.0	620.2	667.2	606.1	404.1
87.5°	117.5	173.8	305.4	225.5	112.8	89.3	202.0	225.5	216.1	183.2
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°
6235.1	0°	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1	6235.1
6291.4	2.5°	6380.7	6446.5	6479.4	6672.0	6751.9	6737.8	6756.6	6784.8	6813.0	6850.6
6371.3	5°	6432.4	6634.4	6742.5	6968.0	7118.4	7052.6	7137.2	7113.7	7080.8	7076.1
6517.0	7.5°	6601.6	6860.0	7184.2	7245.3	7311.0	7146.6	7005.6	6813.0	6766.0	6601.6
6639.1	10°	6902.3	7113.7	7508.4	7531.9	7240.6	6817.7	6502.9	6103.5	6098.8	5859.2
6827.1	12.5°	7188.9	7428.5	7748.0	7611.8	6916.4	6338.4	5826.3	5389.3	5206.1	5083.9
6939.9	15°	7367.4	7762.1	7931.3	7343.9	6347.8	5567.9	4905.4	4435.5	4247.5	4158.3
7080.8	17.5°	7531.9	8081.6	8006.4	6874.1	5647.7	4773.8	3984.4	3575.6	3524.0	3458.2
7306.3	20°	7757.4	8199.1	7738.6	6263.3	4853.7	3749.5	3246.7	3049.4	3096.4	3124.6
7329.8	22.5°	7968.8	8260.2	7400.3	5596.0	3834.1	2969.5	2720.5	2762.8	2833.3	2927.2
7386.2	25°	8062.8	8358.8	6944.5	4675.1	2917.8	2499.7	2443.3	2513.8	2631.2	2635.9
7466.1	27.5°	8123.9	8288.4	6394.8	3777.7	2307.0	2184.9	2269.4	2321.1	2335.2	2391.6
7635.2	30°	8232.0	8142.7	5699.4	2701.7	1935.8	1940.5	2048.6	2048.6	2048.6	2090.9
7804.4	32.5°	8419.9	8044.0	4886.6	1973.4	1668.0	1818.4	1790.2	1780.8	1762.0	1710.3
8020.5	35°	8537.4	7776.2	3857.6	1461.3	1498.9	1668.0	1658.6	1513.0	1268.6	1146.5
8570.3	37.5°	8781.7	7639.9	2838.0	1127.7	1400.2	1592.8	1541.1	1188.7	920.9	803.5
9251.6	40°	9308.0	7550.7	1964.0	986.7	1334.4	1555.2	1376.7	1014.9	704.8	498.1
10304.1	42.5°	9951.7	7555.4	1334.4	930.3	1339.1	1635.1	1325.0	869.2	498.1	399.4
11708.9	45°	10816.2	7484.9	916.2	930.3	1423.7	1766.7	1357.9	789.4	484.0	507.5
13470.9	47.5°	11746.5	7546.0	681.3	845.8	1437.8	1771.4	1240.4	775.3	465.2	587.3
15388.0	50°	12831.9	7607.1	563.8	780.0	1442.5	1715.0	1141.8	756.5	484.0	620.2
17586.9	52.5°	13950.2	7799.7	479.3	737.7	1498.9	1691.5	1141.8	784.7	484.0	540.3
20387.3	55°	15618.2	8293.1	690.7	920.9	1705.6	1846.6	1404.9	1099.5	676.6	695.4
23070.2	57.5°	17460.0	8800.5	770.6	967.9	1752.6	1663.3	1513.0	1212.2	714.2	718.9
25156.4	60°	18672.3	8819.3	765.9	944.4	1639.8	1437.8	1480.1	1278.0	728.3	615.5
26448.5	62.5°	19156.2	8246.1	798.8	944.4	1527.0	1343.8	1517.7	1376.7	751.8	770.6
26815.0	65°	18606.5	7062.0	770.6	845.8	1343.8	1202.8	1527.0	1395.5	822.3	775.3
26157.2	67°	17746.7	6084.7	784.7	803.5	1249.8	1141.8	1606.9	1466.0	953.8	930.3
25814.2	67.5°	17502.3	5826.3	780.0	780.0	1216.9	1123.0	1625.7	1466.0	972.6	963.2
22783.6	70°	15425.5	4722.1	798.8	770.6	1076.0	1066.6	1729.1	1545.8	1118.3	1127.7
16736.5	72.5°	11741.8	3580.3	794.1	770.6	935.0	1019.6	1743.2	1597.5	1216.9	1127.7
9373.7	75°	6672.0	2142.6	700.1	671.9	737.7	888.0	1630.4	1522.4	1184.1	1010.2
3744.8	77.5°	2758.1	1104.2	643.7	606.1	610.8	723.6	1357.9	1419.0	1127.7	859.8
1249.8	80°	1029.0	662.5	516.8	484.0	469.9	530.9	967.9	1132.4	963.2	704.8
549.7	82.5°	535.6	413.5	352.4	352.4	319.5	338.3	521.5	751.8	728.3	484.0
220.8	85°	272.5	234.9	202.0	197.3	178.5	159.8	263.1	446.4	418.2	267.8
98.7	87.5°	145.7	131.6	84.6	79.9	65.8	42.3	47.0	89.3	145.7	117.5
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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<u>180°</u>
6235.1
6888.2
7118.4
6657.9
5849.8
5055.7
4139.5
3491.1
3091.7
2875.6
2682.9
2443.3
2137.9
1682.1
1202.8
798.8
484.0
390.0
516.8
653.1
718.9
554.4
733.0
695.4
634.3
780.0
761.2
916.2
944.4
1043.1
1000.8
902.1
812.9
643.7
380.6
220.8
84.6
0.0

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