

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: P477878

Luminaire Tested: **IFLD-S-SA2A-827-U-T3R**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477878  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

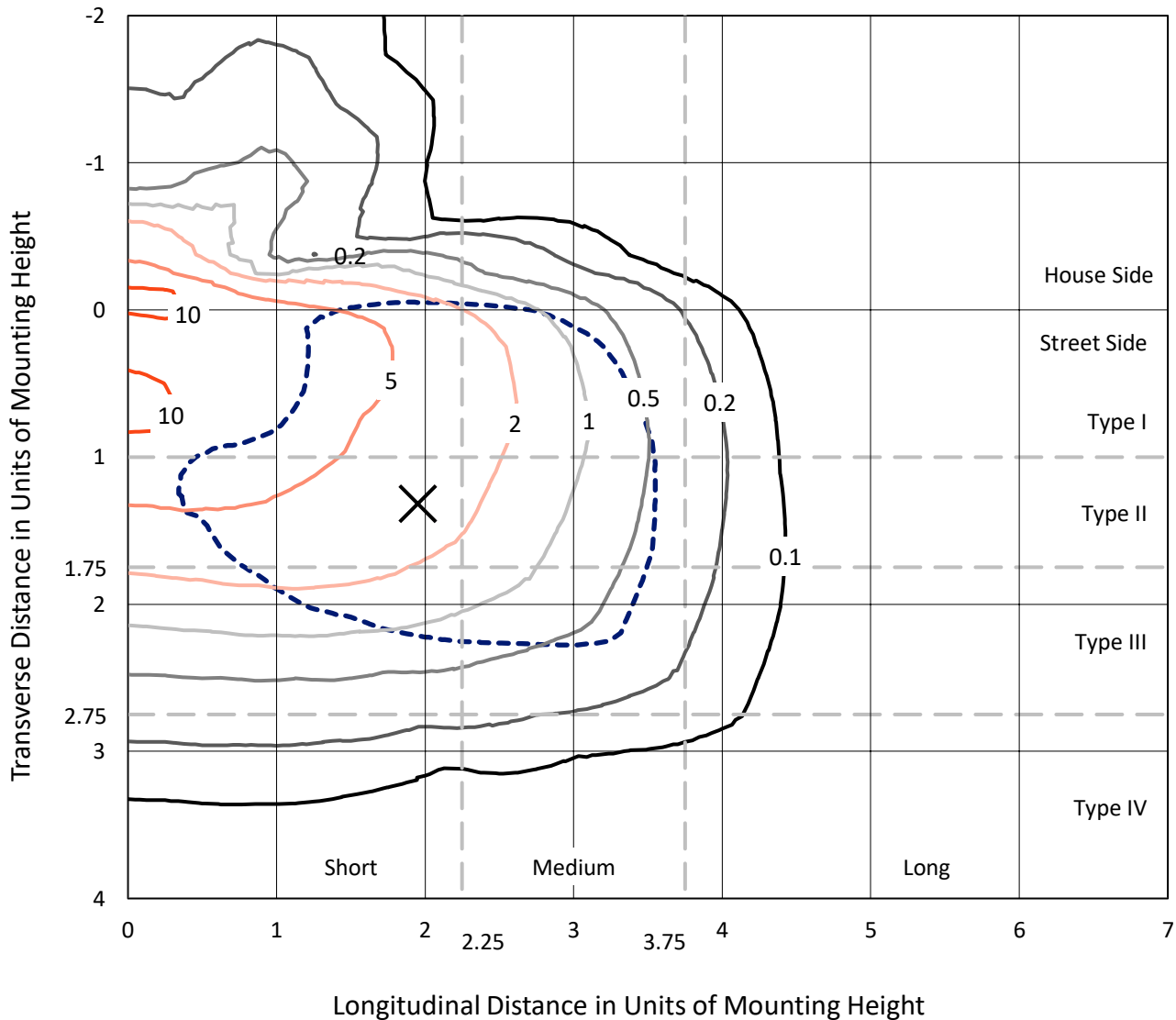
Lumens per Lamp: N/A  
Luminaire Lumens: 6666.5 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

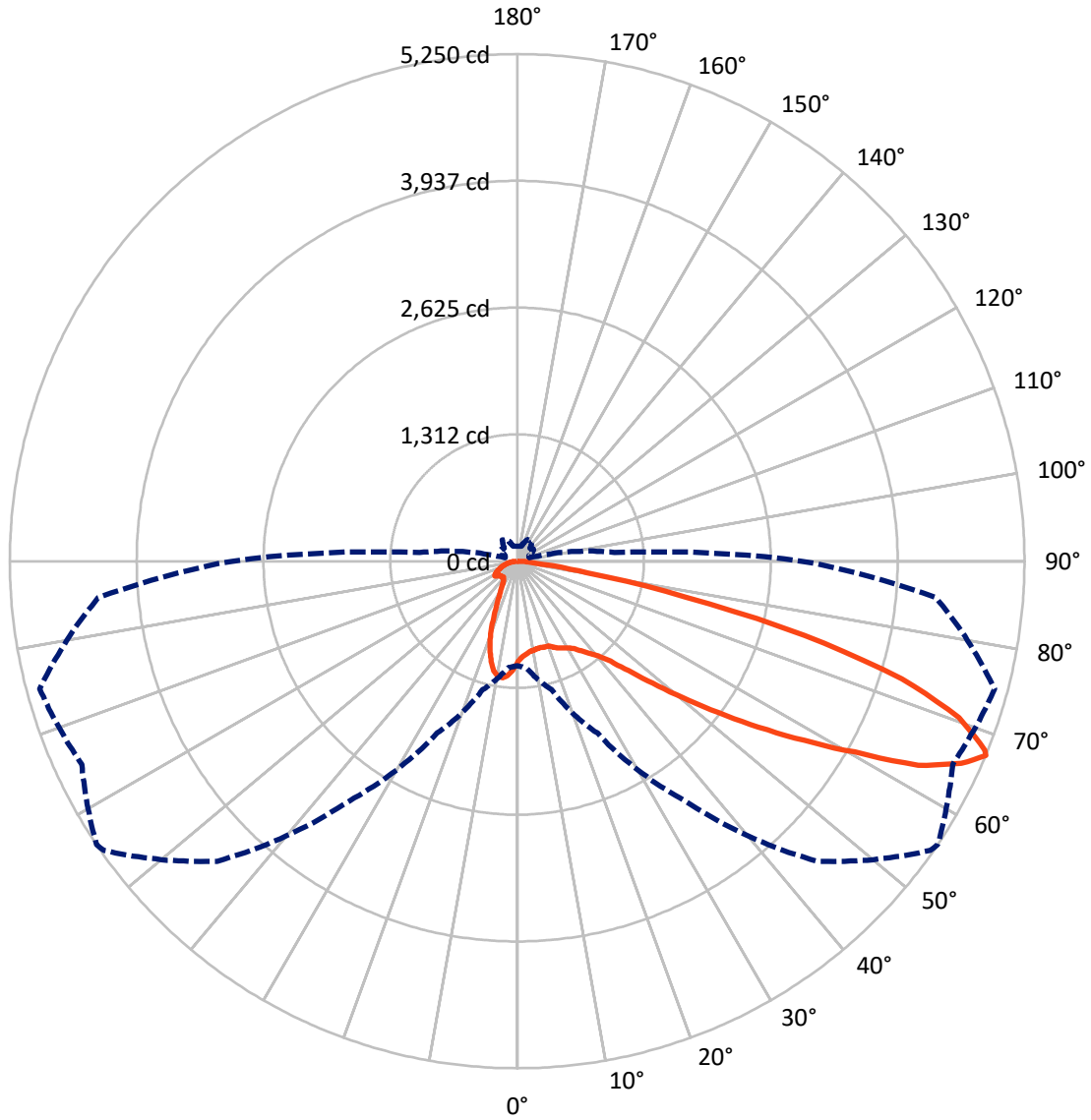
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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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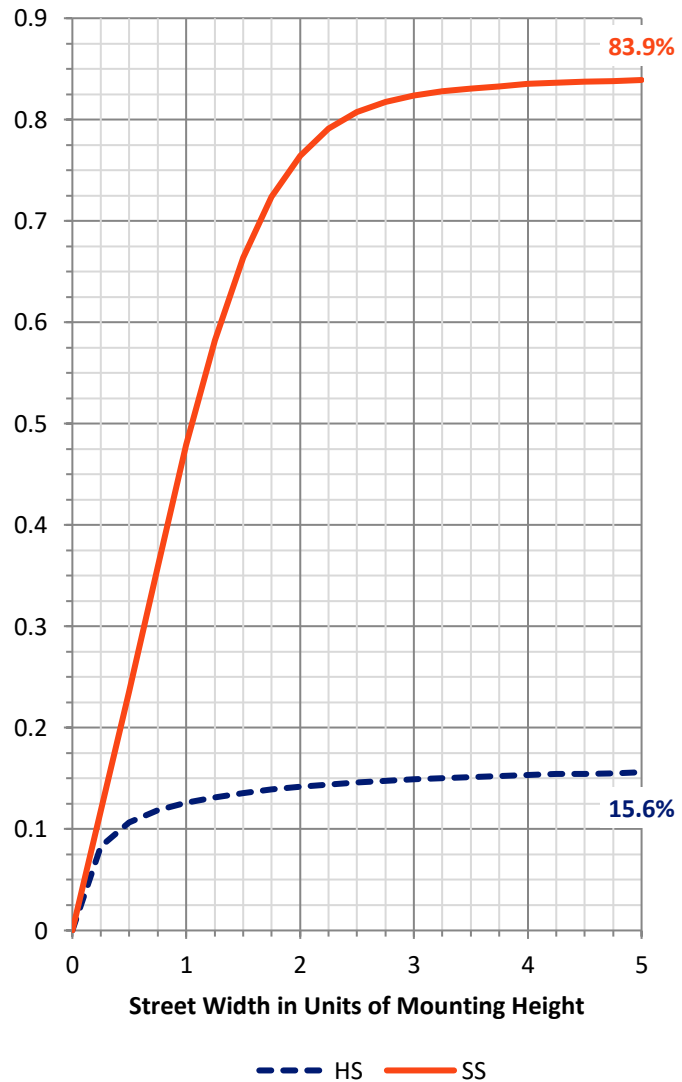
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1055.4	0.0	1055.4
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	5611.1	0.0	5611.1
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	6666.5	0.0	6666.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.9	1.5
10°-20°	272.6	4.1
20°-30°	427.5	6.4
30°-40°	610.3	9.2
40°-50°	921.2	13.8
50°-60°	1466.3	22.0
60°-70°	1874.6	28.1
70°-80°	914.0	13.7
80°-90°	80.0	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°	6666.5	100.0
0°-180°	6666.5	100.0

**Coefficient of Utilization**

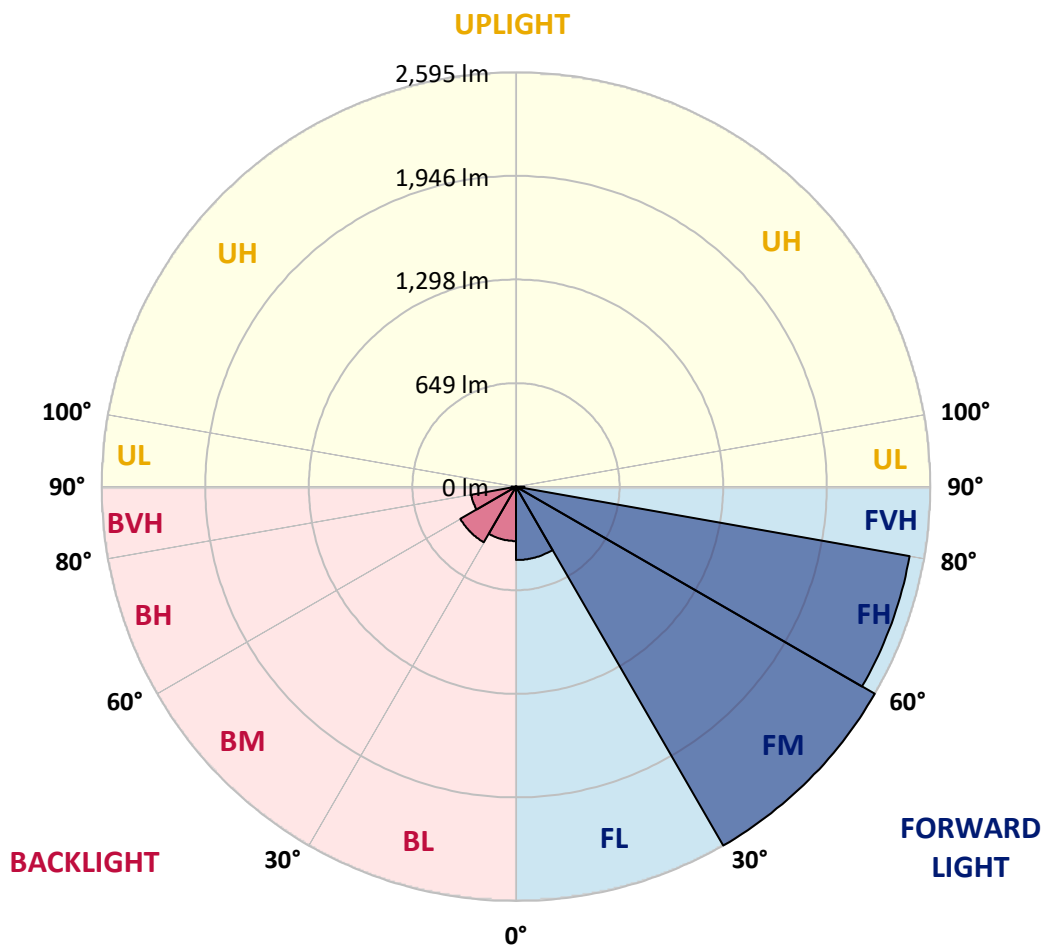


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.4	6.9			
FM (30°-60°)	2595.2	38.9			
FH (60°-80°)	2503.4	37.6			G2/5000
FVH (80°-90°)	53.1	0.8			G1/100
BL (0°-30°)	340.7	5.1	B1/500		
BM (30°-60°)	402.6	6.0	B1/1000		
BH (60°-80°)	285.2	4.3	B1/500		G1/500
BVH (80°-90°)	26.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3
2.5°	952.9	949.0	953.6	949.0	970.1	982.6	986.5	991.9	1011.5	1030.2
5°	913.0	895.8	914.6	920.8	922.4	943.5	965.4	969.3	979.4	1009.9
7.5°	846.6	866.1	859.1	877.8	897.4	918.5	954.4	944.3	981.8	1010.7
10°	832.5	834.0	841.9	848.9	866.1	893.5	943.5	937.2	975.5	1037.3
12.5°	846.6	846.6	844.2	838.7	858.3	884.9	924.7	927.8	988.0	1045.1
15°	895.8	905.2	880.2	884.1	876.3	884.9	920.0	927.1	992.7	1051.4
17.5°	1016.2	1013.1	983.3	941.9	907.5	902.1	926.3	934.1	988.0	1069.3
20°	1133.4	1127.2	1075.6	1032.6	964.6	932.5	936.4	937.2	995.9	1081.1
22.5°	1264.0	1280.4	1224.1	1136.6	1052.1	972.4	956.8	969.3	1013.8	1087.3
25°	1468.8	1433.6	1385.1	1270.2	1134.2	1034.2	990.4	996.6	1031.0	1102.9
27.5°	1616.5	1602.4	1526.6	1433.6	1249.1	1082.6	1008.4	1020.1	1062.3	1102.2
30°	1758.8	1758.8	1712.7	1573.5	1370.3	1163.9	1046.7	1041.2	1047.4	1100.6
32.5°	1925.3	1902.6	1836.2	1743.9	1522.7	1238.2	1077.1	1078.7	1078.7	1129.5
35°	2012.8	2049.6	2005.0	1854.9	1639.2	1361.7	1150.6	1138.9	1130.3	1161.6
37.5°	2141.0	2162.9	2116.0	2027.7	1783.8	1461.7	1215.5	1206.1	1156.1	1186.6
40°	2218.4	2214.5	2212.9	2172.3	1975.3	1579.8	1310.9	1286.6	1219.4	1274.9
42.5°	2262.2	2254.4	2350.5	2325.5	2155.9	1753.3	1430.5	1417.2	1342.9	1432.0
45°	2311.4	2369.3	2448.2	2518.6	2366.1	1997.2	1632.9	1614.2	1547.7	1661.1
47.5°	2354.4	2425.5	2526.4	2601.4	2556.1	2262.2	1883.1	1887.7	1844.0	1960.4
50°	2426.3	2433.4	2570.1	2721.8	2757.0	2506.8	2219.2	2211.4	2191.8	2355.2
52.5°	2404.4	2425.5	2598.3	2792.1	2850.0	2765.6	2580.3	2603.8	2578.0	2783.5
55°	2048.0	2111.3	2581.1	2866.4	3070.4	3057.9	3044.6	3029.0	3027.4	3265.1
57.5°	1886.2	1937.8	2273.9	2948.5	3306.5	3398.7	3484.7	3501.9	3501.1	3788.0
60°	1779.9	1833.0	2149.6	2903.9	3507.4	3845.1	4010.0	4012.3	4007.7	4346.9
62.5°	1571.9	1623.5	1934.6	2660.0	3562.9	4257.0	4624.4	4654.9	4439.9	4828.4
65°	1321.8	1364.0	1638.4	2287.2	3415.1	4518.9	5086.4	5050.4	4804.2	5103.6
67°	1081.1	1109.2	1376.5	1963.6	3029.0	4393.0	5220.0	5249.7	4972.2	5115.3
67.5°	1012.3	1038.1	1290.5	1853.4	2882.0	4297.7	5224.7	5220.0	4975.4	5117.6
70°	702.7	713.7	879.4	1274.9	2123.0	3630.9	4843.3	4854.2	4766.7	4840.1
72.5°	465.9	482.3	587.8	803.6	1251.5	2642.1	4048.3	4165.5	4110.1	3968.6
75°	300.2	309.5	384.6	478.4	616.0	1504.7	2990.7	3068.9	2941.4	2454.5
77.5°	168.1	178.2	232.2	290.8	300.2	626.1	1679.8	1776.7	1505.5	1042.8
80°	104.7	118.0	175.1	172.8	143.0	229.8	692.6	741.8	601.9	358.8
82.5°	78.9	89.1	135.2	121.2	80.5	102.4	259.5	278.3	220.4	138.4
85°	53.9	68.0	97.7	75.0	42.2	49.2	103.2	111.0	100.8	67.2
87.5°	19.5	28.9	50.8	37.5	18.8	14.9	33.6	37.5	36.0	30.5
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°
1037.3	0°	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3
1046.7	2.5°	1061.5	1072.5	1077.9	1110.0	1123.3	1120.9	1124.0	1128.7	1133.4	1139.7
1060.0	5°	1070.1	1103.7	1121.7	1159.2	1184.2	1173.3	1187.4	1183.5	1178.0	1177.2
1084.2	7.5°	1098.3	1141.2	1195.2	1205.3	1216.3	1188.9	1165.5	1133.4	1125.6	1098.3
1104.5	10°	1148.3	1183.5	1249.1	1253.0	1204.6	1134.2	1081.8	1015.4	1014.6	974.7
1135.8	12.5°	1196.0	1235.8	1289.0	1266.3	1150.6	1054.5	969.3	896.6	866.1	845.8
1154.5	15°	1225.7	1291.3	1319.5	1221.8	1056.0	926.3	816.1	737.9	706.6	691.8
1178.0	17.5°	1253.0	1344.5	1332.0	1143.6	939.6	794.2	662.9	594.9	586.3	575.3
1215.5	20°	1290.5	1364.0	1287.4	1042.0	807.5	623.8	540.1	507.3	515.1	519.8
1219.4	22.5°	1325.7	1374.2	1231.1	931.0	637.8	494.0	452.6	459.6	471.4	487.0
1228.8	25°	1341.4	1390.6	1155.3	777.8	485.4	415.9	406.5	418.2	437.7	438.5
1242.1	27.5°	1351.5	1378.9	1063.9	628.5	383.8	363.5	377.5	386.1	388.5	397.9
1270.2	30°	1369.5	1354.6	948.2	449.5	322.1	322.8	340.8	340.8	340.8	347.8
1298.4	32.5°	1400.8	1338.2	812.9	328.3	277.5	302.5	297.8	296.3	293.1	284.5
1334.3	35°	1420.3	1293.7	641.8	243.1	249.4	277.5	275.9	251.7	211.1	190.7
1425.8	37.5°	1461.0	1271.0	472.1	187.6	232.9	265.0	256.4	197.8	153.2	133.7
1539.1	40°	1548.5	1256.2	326.7	164.2	222.0	258.7	229.0	168.8	117.3	82.9
1714.2	42.5°	1655.6	1256.9	222.0	154.8	222.8	272.0	220.4	144.6	82.9	66.4
1947.9	45°	1799.4	1245.2	152.4	154.8	236.8	293.9	225.9	131.3	80.5	84.4
2241.1	47.5°	1954.2	1255.4	113.3	140.7	239.2	294.7	206.4	129.0	77.4	97.7
2560.0	50°	2134.8	1265.5	93.8	129.8	240.0	285.3	189.9	125.8	80.5	103.2
2925.8	52.5°	2320.8	1297.6	79.7	122.7	249.4	281.4	189.9	130.5	80.5	89.9
3391.7	55°	2598.3	1379.7	114.9	153.2	283.7	307.2	233.7	182.9	112.6	115.7
3838.0	57.5°	2904.7	1464.1	128.2	161.0	291.6	276.7	251.7	201.7	118.8	119.6
4185.1	60°	3106.4	1467.2	127.4	157.1	272.8	239.2	246.2	212.6	121.2	102.4
4400.1	62.5°	3186.9	1371.8	132.9	157.1	254.0	223.6	252.5	229.0	125.1	128.2
4461.0	65°	3095.4	1174.9	128.2	140.7	223.6	200.1	254.0	232.2	136.8	129.0
4351.6	67°	2952.4	1012.3	130.5	133.7	207.9	189.9	267.3	243.9	158.7	154.8
4294.5	67.5°	2911.7	969.3	129.8	129.8	202.5	186.8	270.5	243.9	161.8	160.2
3790.3	70°	2566.2	785.6	132.9	128.2	179.0	177.4	287.7	257.2	186.0	187.6
2784.3	72.5°	1953.4	595.6	132.1	128.2	155.6	169.6	290.0	265.8	202.5	187.6
1559.4	75°	1110.0	356.4	116.5	111.8	122.7	147.7	271.2	253.3	197.0	168.1
623.0	77.5°	458.8	183.7	107.1	100.8	101.6	120.4	225.9	236.1	187.6	143.0
207.9	80°	171.2	110.2	86.0	80.5	78.2	88.3	161.0	188.4	160.2	117.3
91.5	82.5°	89.1	68.8	58.6	58.6	53.2	56.3	86.8	125.1	121.2	80.5
36.7	85°	45.3	39.1	33.6	32.8	29.7	26.6	43.8	74.3	69.6	44.6
16.4	87.5°	24.2	21.9	14.1	13.3	10.9	7.0	7.8	14.9	24.2	19.5
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°
1037.3
1145.9
1184.2
1107.6
973.2
841.1
688.7
580.8
514.3
478.4
446.3
406.5
355.7
279.8
200.1
132.9
80.5
64.9
86.0
108.7
119.6
92.2
121.9
115.7
105.5
129.8
126.6
152.4
157.1
173.5
166.5
150.1
135.2
107.1
63.3
36.7
14.1
0.0

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