

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: P477683

Luminaire Tested: **IFLD-S-SA2A-730-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477683  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-730-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

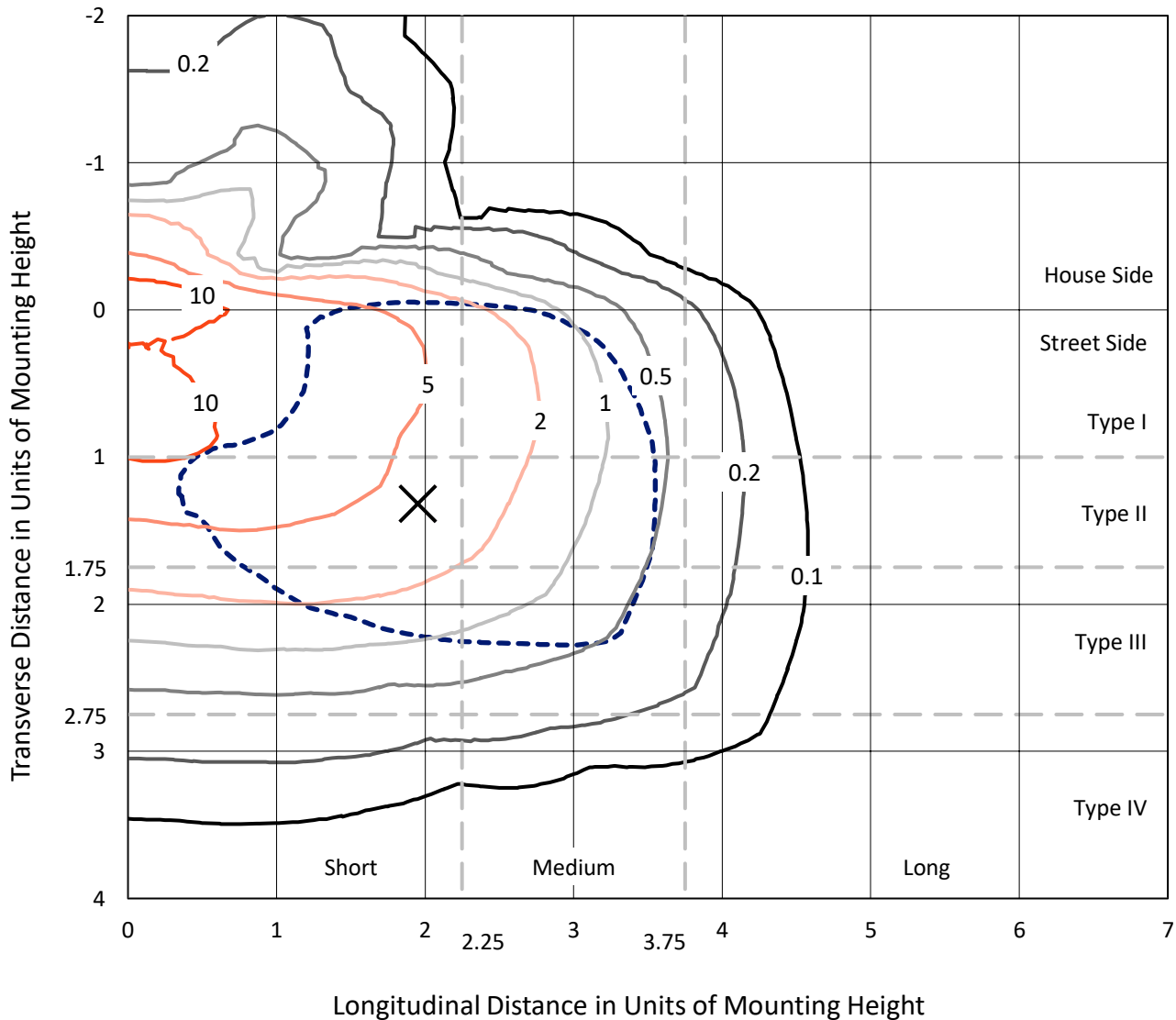
Lumens per Lamp: N/A  
Luminaire Lumens: 8258 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (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

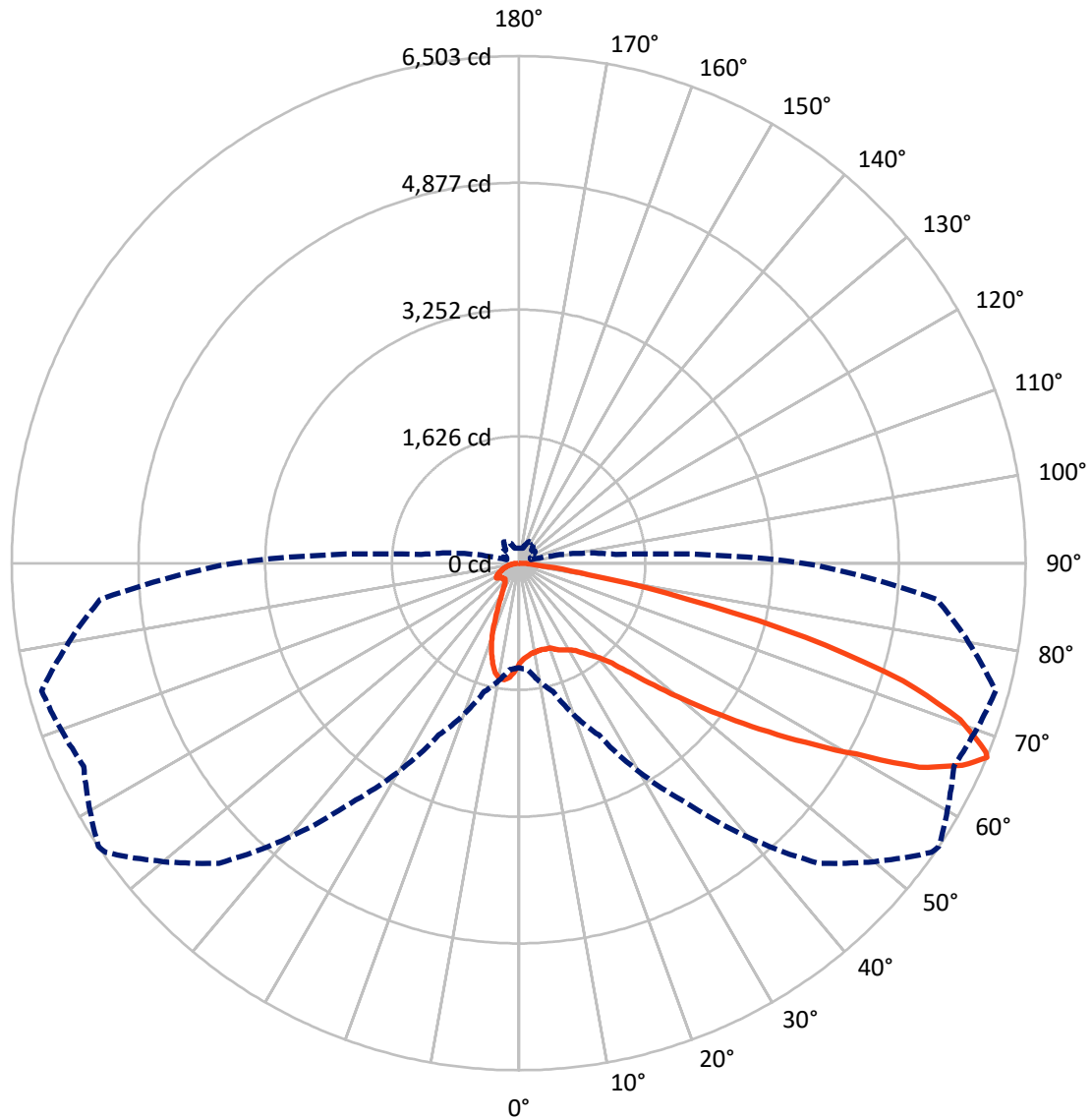
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 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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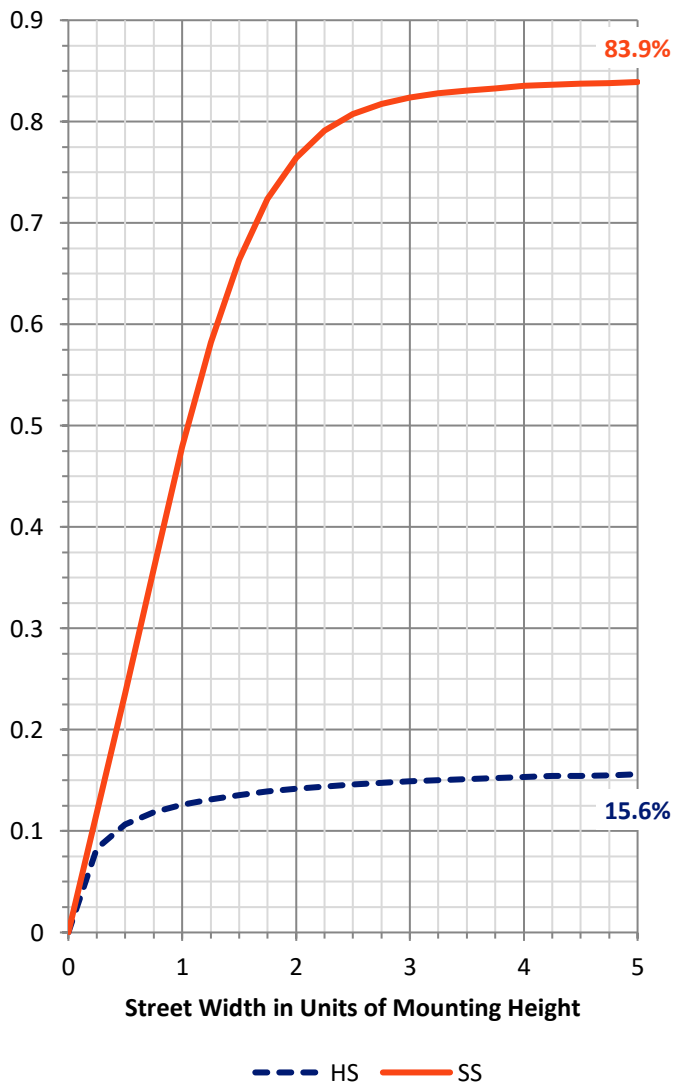
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1307.3	0.0	1307.3
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	6950.7	0.0	6950.7
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	8258.0	0.0	8258.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.8	1.5
10°-20°	337.7	4.1
20°-30°	529.6	6.4
30°-40°	756.0	9.2
40°-50°	1141.1	13.8
50°-60°	1816.4	22.0
60°-70°	2322.1	28.1
70°-80°	1132.2	13.7
80°-90°	99.0	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°	8258.0	100.0
0°-180°	8258.0	100.0

**Coefficient of Utilization**

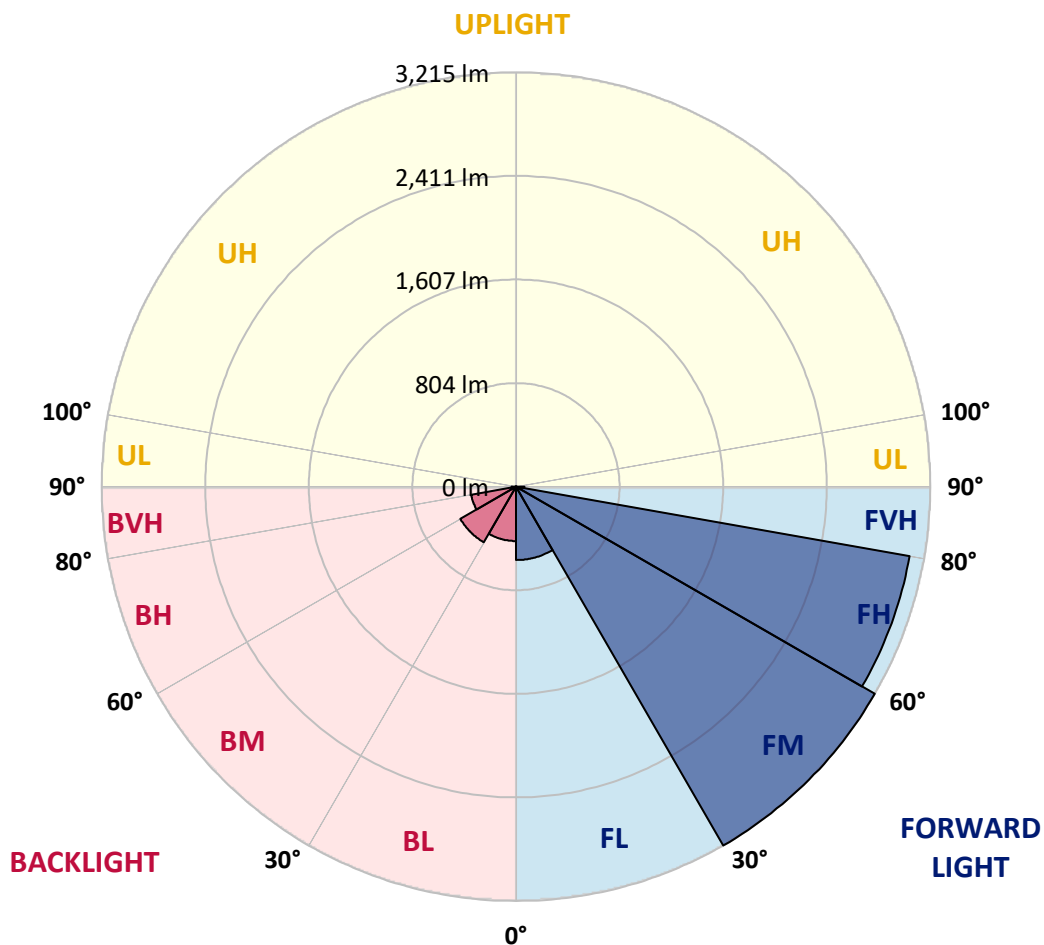


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.1	6.9			
FM (30°-60°)	3214.8	38.9			
FH (60°-80°)	3101.1	37.6			G2/5000
FVH (80°-90°)	65.8	0.8			G1/100
BL (0°-30°)	422.0	5.1	B1/500		
BM (30°-60°)	498.8	6.0	B1/1000		
BH (60°-80°)	353.3	4.3	B1/500		G1/500
BVH (80°-90°)	33.3	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°	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9
2.5°	1180.4	1175.5	1181.3	1175.5	1201.7	1217.1	1222.0	1228.8	1253.0	1276.2
5°	1131.0	1109.7	1132.9	1140.7	1142.6	1168.7	1195.8	1200.7	1213.3	1251.0
7.5°	1048.7	1072.9	1064.2	1087.4	1111.6	1137.7	1182.3	1169.7	1216.2	1252.0
10°	1031.2	1033.2	1042.9	1051.6	1072.9	1106.8	1168.7	1161.0	1208.4	1284.9
12.5°	1048.7	1048.7	1045.8	1039.0	1063.2	1096.1	1145.5	1149.4	1223.9	1294.6
15°	1109.7	1121.3	1090.3	1095.1	1085.5	1096.1	1139.7	1148.4	1229.7	1302.4
17.5°	1258.8	1254.9	1218.1	1166.8	1124.2	1117.4	1147.4	1157.1	1223.9	1324.6
20°	1404.0	1396.3	1332.4	1279.1	1194.9	1155.2	1160.0	1161.0	1233.6	1339.2
22.5°	1565.7	1586.1	1516.4	1407.9	1303.3	1204.6	1185.2	1200.7	1255.9	1346.9
25°	1819.4	1775.9	1715.8	1573.5	1405.0	1281.1	1226.8	1234.6	1277.2	1366.3
27.5°	2002.4	1985.0	1891.1	1775.9	1547.3	1341.1	1249.1	1263.6	1315.9	1365.3
30°	2178.7	2178.7	2121.5	1949.2	1697.4	1441.8	1296.5	1289.8	1297.5	1363.4
32.5°	2384.9	2356.8	2274.5	2160.3	1886.2	1533.8	1334.3	1336.2	1336.2	1399.2
35°	2493.4	2538.9	2483.7	2297.8	2030.5	1686.8	1425.3	1410.8	1400.2	1438.9
37.5°	2652.2	2679.3	2621.2	2511.8	2209.6	1810.7	1505.7	1494.1	1432.1	1469.9
40°	2748.0	2743.2	2741.2	2690.9	2446.9	1956.9	1623.8	1593.8	1510.5	1579.3
42.5°	2802.2	2792.6	2911.7	2880.7	2670.6	2171.9	1772.0	1755.5	1663.5	1773.9
45°	2863.2	2934.9	3032.7	3119.8	2931.0	2474.0	2022.8	1999.5	1917.2	2057.6
47.5°	2916.5	3004.6	3129.5	3222.5	3166.3	2802.2	2332.6	2338.4	2284.2	2428.5
50°	3005.6	3014.3	3183.8	3371.6	3415.2	3105.3	2749.0	2739.3	2715.1	2917.5
52.5°	2978.5	3004.6	3218.6	3458.8	3530.4	3425.8	3196.3	3225.4	3193.4	3448.1
55°	2536.9	2615.4	3197.3	3550.7	3803.5	3788.0	3771.5	3752.1	3750.2	4044.6
57.5°	2336.5	2400.4	2816.8	3652.4	4095.9	4210.1	4316.7	4338.0	4337.0	4692.4
60°	2204.8	2270.7	2662.8	3597.2	4344.7	4763.0	4967.4	4970.3	4964.4	5384.7
62.5°	1947.2	2011.1	2396.5	3295.1	4413.5	5273.3	5728.4	5766.2	5499.9	5981.2
65°	1637.4	1689.7	2029.5	2833.2	4230.5	5597.7	6300.7	6256.2	5951.1	6322.0
67°	1339.2	1374.0	1705.2	2432.4	3752.1	5441.8	6466.3	6503.1	6159.3	6336.5
67.5°	1253.9	1285.9	1598.7	2295.8	3570.1	5323.7	6472.1	6466.3	6163.2	6339.4
70°	870.5	884.1	1089.3	1579.3	2629.9	4497.7	5999.6	6013.1	5904.7	5995.7
72.5°	577.1	597.4	728.2	995.4	1550.2	3272.8	5014.8	5160.0	5091.3	4916.0
75°	371.8	383.4	476.4	592.6	763.0	1864.0	3704.7	3801.5	3643.7	3040.4
77.5°	208.2	220.8	287.6	360.2	371.8	775.6	2080.9	2200.9	1864.9	1291.7
80°	129.8	146.2	216.9	214.0	177.2	284.7	857.9	918.9	745.6	444.4
82.5°	97.8	110.4	167.5	150.1	99.7	126.8	321.5	344.7	273.1	171.4
85°	66.8	84.2	121.0	93.0	52.3	61.0	127.8	137.5	124.9	83.3
87.5°	24.2	35.8	62.9	46.5	23.2	18.4	41.6	46.5	44.5	37.8
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°
1284.9	0°	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9	1284.9
1296.5	2.5°	1314.9	1328.5	1335.3	1375.0	1391.4	1388.5	1392.4	1398.2	1404.0	1411.8
1313.0	5°	1325.6	1367.2	1389.5	1436.0	1467.0	1453.4	1470.8	1466.0	1459.2	1458.3
1343.0	7.5°	1360.5	1413.7	1480.5	1493.1	1506.7	1472.8	1443.7	1404.0	1394.3	1360.5
1368.2	10°	1422.4	1466.0	1547.3	1552.2	1492.1	1405.0	1340.1	1257.8	1256.8	1207.5
1406.9	12.5°	1481.5	1530.9	1596.7	1568.6	1425.3	1306.2	1200.7	1110.6	1072.9	1047.7
1430.2	15°	1518.3	1599.6	1634.5	1513.4	1308.2	1147.4	1010.9	914.1	875.3	856.9
1459.2	17.5°	1552.2	1665.5	1650.0	1416.6	1163.9	983.8	821.1	736.9	726.2	712.7
1505.7	20°	1598.7	1689.7	1594.8	1290.7	1000.2	772.7	669.1	628.4	638.1	643.9
1510.5	22.5°	1642.2	1702.3	1525.1	1153.2	790.1	612.0	560.6	569.4	583.9	603.2
1522.2	25°	1661.6	1722.6	1431.1	963.5	601.3	515.1	503.5	518.0	542.2	543.2
1538.6	27.5°	1674.2	1708.1	1317.8	778.5	475.4	450.3	467.7	478.3	481.2	492.9
1573.5	30°	1696.5	1678.1	1174.5	556.8	398.9	399.9	422.2	422.2	422.2	430.9
1608.3	32.5°	1735.2	1657.7	1007.0	406.7	343.7	374.7	368.9	367.0	363.1	352.5
1652.9	35°	1759.4	1602.5	795.0	301.1	308.9	343.7	341.8	311.8	261.4	236.3
1766.2	37.5°	1809.7	1574.4	584.9	232.4	288.6	328.3	317.6	245.0	189.8	165.6
1906.6	40°	1918.2	1556.1	404.7	203.3	275.0	320.5	283.7	209.2	145.2	102.6
2123.5	42.5°	2050.8	1557.0	275.0	191.7	276.0	337.0	273.1	179.1	102.6	82.3
2413.0	45°	2229.0	1542.5	188.8	191.7	293.4	364.1	279.8	162.7	99.7	104.6
2776.1	47.5°	2420.7	1555.1	140.4	174.3	296.3	365.0	255.6	159.8	95.9	121.0
3171.2	50°	2644.4	1567.7	116.2	160.7	297.3	353.4	235.3	155.9	99.7	127.8
3624.3	52.5°	2874.9	1607.4	98.8	152.0	308.9	348.6	235.3	161.7	99.7	111.4
4201.4	55°	3218.6	1709.0	142.3	189.8	351.5	380.5	289.5	226.6	139.4	143.3
4754.3	57.5°	3598.2	1813.6	158.8	199.5	361.2	342.8	311.8	249.8	147.2	148.1
5184.3	60°	3848.0	1817.5	157.8	194.6	337.9	296.3	305.0	263.4	150.1	126.8
5450.5	62.5°	3947.7	1699.4	164.6	194.6	314.7	276.9	312.8	283.7	154.9	158.8
5526.1	65°	3834.4	1455.3	158.8	174.3	276.9	247.9	314.7	287.6	169.5	159.8
5390.5	67°	3657.3	1253.9	161.7	165.6	257.6	235.3	331.2	302.1	196.6	191.7
5319.8	67.5°	3606.9	1200.7	160.7	160.7	250.8	231.4	335.0	302.1	200.4	198.5
4695.3	70°	3178.9	973.1	164.6	158.8	221.7	219.8	356.3	318.6	230.5	232.4
3449.1	72.5°	2419.8	737.8	163.6	158.8	192.7	210.1	359.2	329.2	250.8	232.4
1931.7	75°	1375.0	441.5	144.3	138.5	152.0	183.0	336.0	313.7	244.0	208.2
771.7	77.5°	568.4	227.5	132.7	124.9	125.9	149.1	279.8	292.4	232.4	177.2
257.6	80°	212.1	136.5	106.5	99.7	96.8	109.4	199.5	233.4	198.5	145.2
113.3	82.5°	110.4	85.2	72.6	72.6	65.8	69.7	107.5	154.9	150.1	99.7
45.5	85°	56.2	48.4	41.6	40.7	36.8	32.9	54.2	92.0	86.2	55.2
20.3	87.5°	30.0	27.1	17.4	16.5	13.6	8.7	9.7	18.4	30.0	24.2
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>
1284.9
1419.5
1467.0
1372.1
1205.5
1041.9
853.1
719.4
637.1
592.6
552.9
503.5
440.6
346.6
247.9
164.6
99.7
80.4
106.5
134.6
148.1
114.3
151.1
143.3
130.7
160.7
156.9
<b>188.8</b>
194.6
215.0
206.2
185.9
167.5
132.7
78.4
45.5
17.4
0.0

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