

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: P477917

Luminaire Tested: **IFLD-S-SA2A-830-U-T3R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477917  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-830-U-T3R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

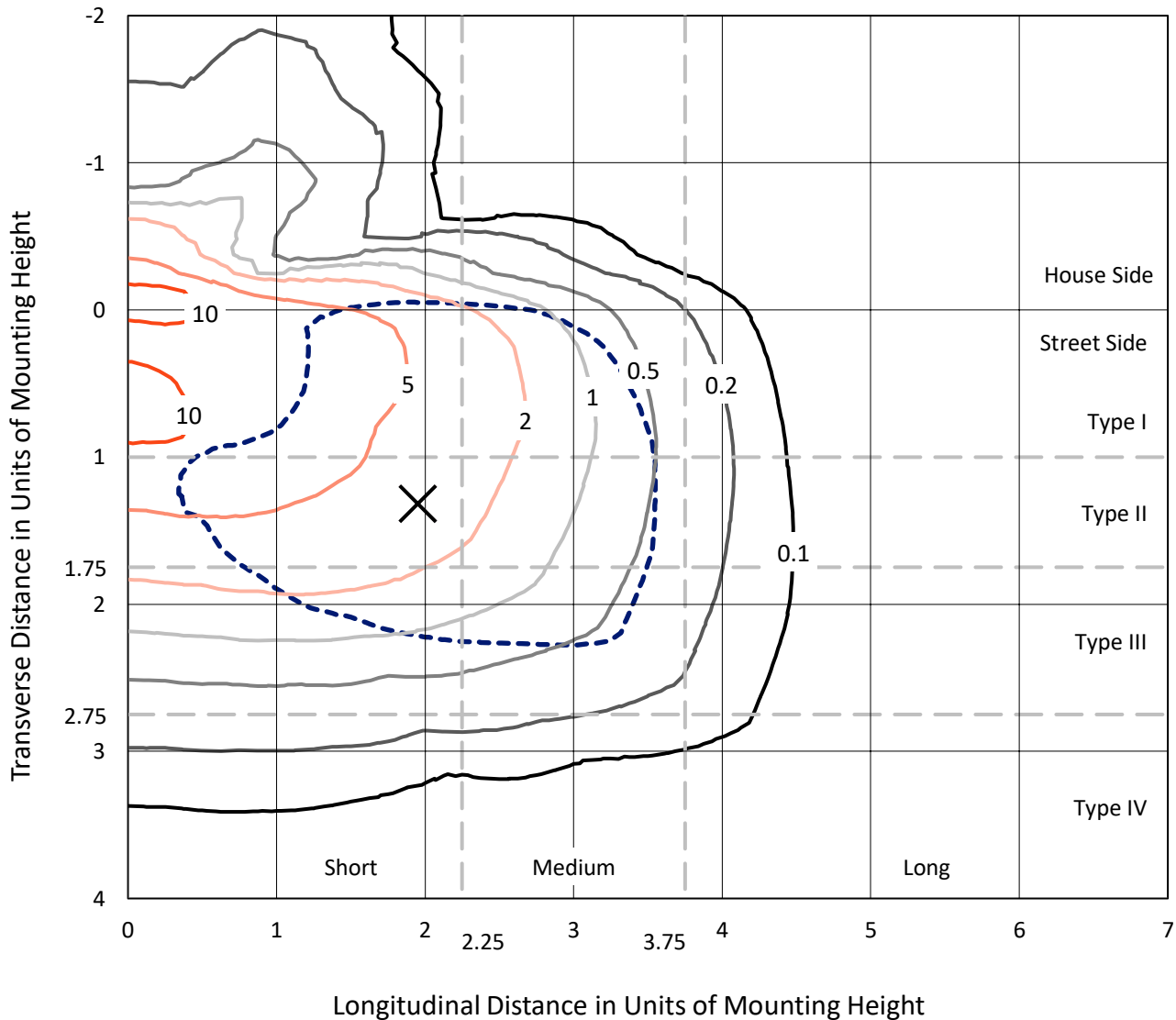
Lumens per Lamp: N/A  
Luminaire Lumens: 7206.1 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

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

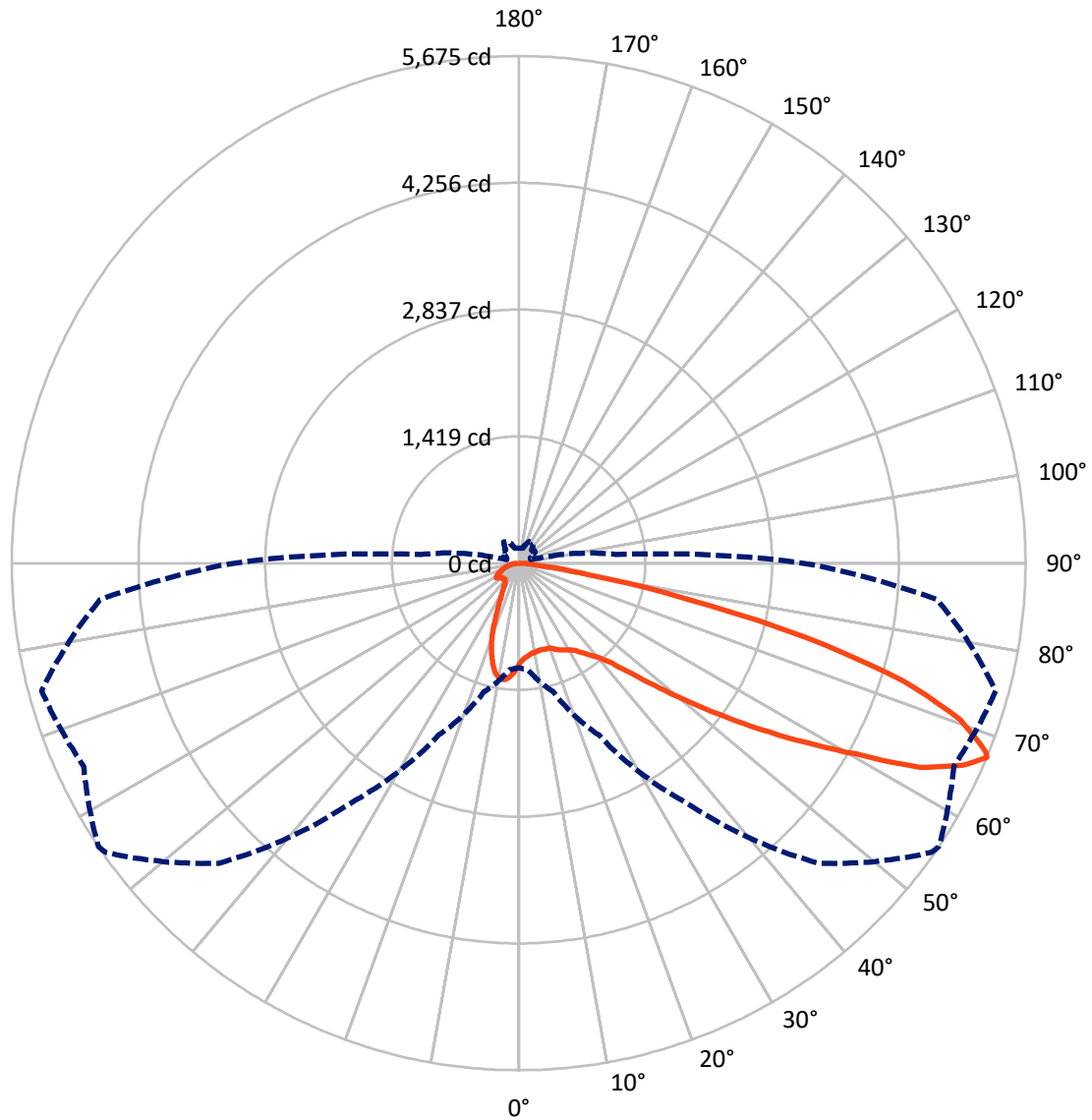
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 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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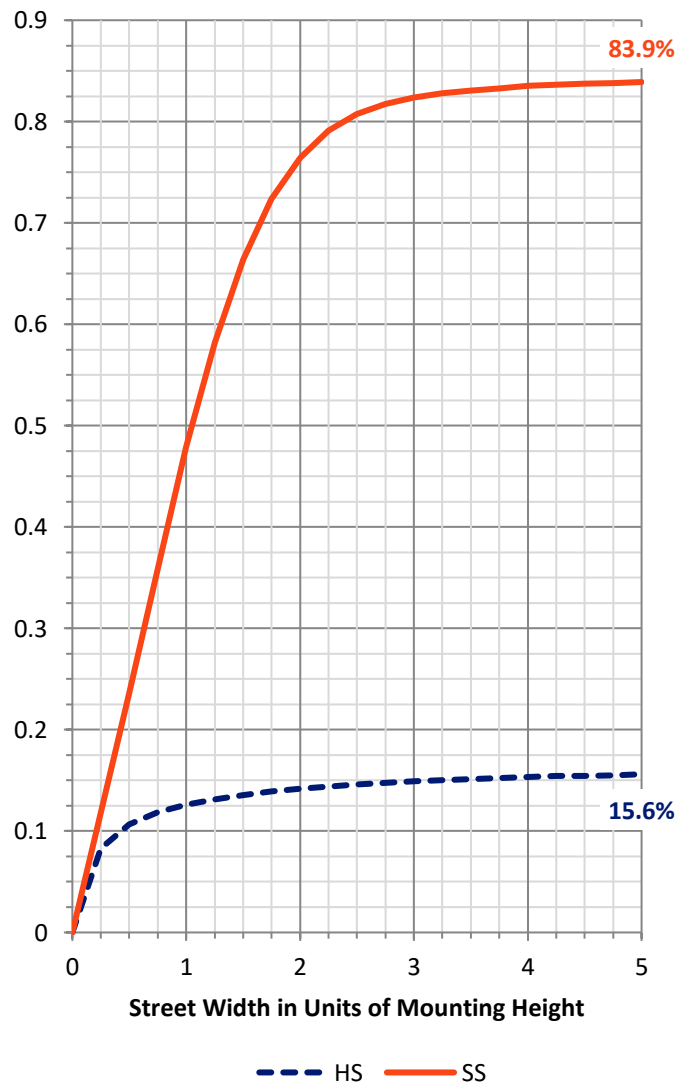
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1140.8	0.0	1140.8
	% Fixture	15.8	0.0	15.8
<b>Street Side</b>	Lumens	6065.3	0.0	6065.3
	% Fixture	84.2	0.0	84.2
<b>Total</b>	Lumens	7206.1	0.0	7206.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.0	1.5
10°-20°	294.7	4.1
20°-30°	462.2	6.4
30°-40°	659.7	9.2
40°-50°	995.7	13.8
50°-60°	1585.0	22.0
60°-70°	2026.3	28.1
70°-80°	988.0	13.7
80°-90°	86.4	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°	7206.1	100.0
0°-180°	7206.1	100.0

**Coefficient of Utilization**

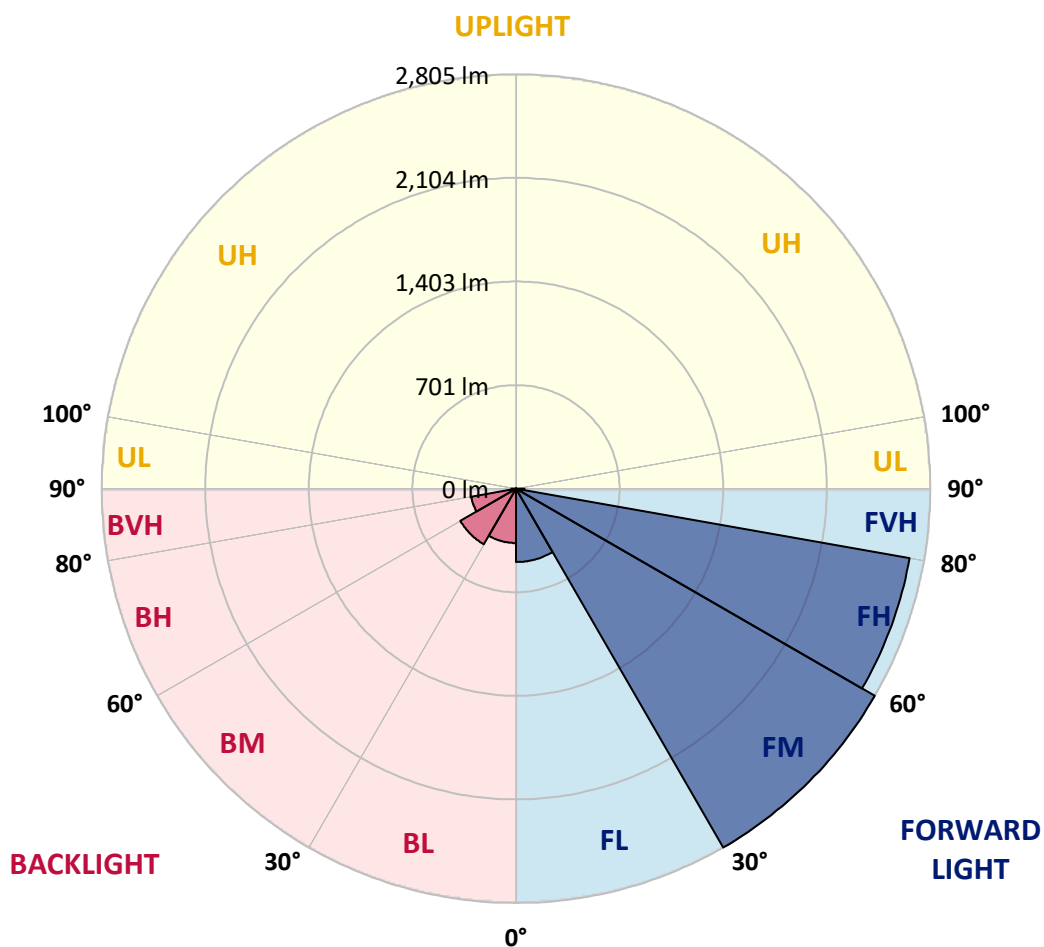


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.6	6.9			
FM (30°-60°)	2805.3	38.9			
FH (60°-80°)	2706.0	37.6			G2/5000
FVH (80°-90°)	57.4	0.8			G1/100
BL (0°-30°)	368.3	5.1	B1/500		
BM (30°-60°)	435.2	6.0	B1/1000		
BH (60°-80°)	308.3	4.3	B1/500		G1/500
BVH (80°-90°)	29.0	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°	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2
2.5°	1030.0	1025.8	1030.8	1025.8	1048.6	1062.1	1066.3	1072.2	1093.4	1113.6
5°	986.9	968.3	988.6	995.3	997.0	1019.8	1043.5	1047.7	1058.7	1091.7
7.5°	915.1	936.2	928.6	948.9	970.0	992.8	1031.7	1020.7	1061.3	1092.5
10°	899.9	901.6	910.0	917.6	936.2	965.8	1019.8	1013.1	1054.5	1121.2
12.5°	915.1	915.1	912.5	906.6	927.8	956.5	999.6	1003.0	1068.0	1129.7
15°	968.3	978.4	951.4	955.6	947.2	956.5	994.5	1002.1	1073.1	1136.5
17.5°	1098.4	1095.0	1062.9	1018.2	981.0	975.1	1001.3	1009.7	1068.0	1155.9
20°	1225.2	1218.4	1162.6	1116.2	1042.7	1008.0	1012.2	1013.1	1076.5	1168.6
22.5°	1366.3	1384.0	1323.2	1228.6	1137.3	1051.1	1034.2	1047.7	1095.9	1175.3
25°	1587.7	1549.6	1497.2	1373.0	1226.0	1117.9	1070.5	1077.3	1114.5	1192.2
27.5°	1747.3	1732.1	1650.2	1549.6	1350.2	1170.2	1090.0	1102.7	1148.3	1191.4
30°	1901.1	1901.1	1851.3	1700.9	1481.2	1258.1	1131.4	1125.5	1132.2	1189.7
32.5°	2081.1	2056.6	1984.8	1885.1	1646.0	1338.4	1164.3	1166.0	1166.0	1220.9
35°	2175.7	2215.4	2167.3	2005.1	1771.9	1471.9	1243.8	1231.1	1221.8	1255.6
37.5°	2314.3	2338.0	2287.3	2191.8	1928.2	1580.0	1313.9	1303.8	1249.7	1282.6
40°	2398.0	2393.7	2392.0	2348.1	2135.2	1707.6	1417.0	1390.8	1318.1	1378.1
42.5°	2445.3	2436.8	2540.8	2513.7	2330.4	1895.2	1546.3	1531.9	1451.6	1547.9
45°	2498.5	2561.0	2646.4	2722.4	2557.7	2158.8	1765.1	1744.8	1673.0	1795.5
47.5°	2545.0	2621.9	2730.9	2812.0	2763.0	2445.3	2035.5	2040.5	1993.2	2119.1
50°	2622.7	2630.3	2778.2	2942.1	2980.1	2709.7	2398.8	2390.4	2369.2	2545.8
52.5°	2599.1	2621.9	2808.6	3018.1	3080.7	2989.4	2789.2	2814.5	2786.6	3008.9
55°	2213.8	2282.2	2790.0	3098.4	3318.9	3305.4	3291.1	3274.2	3272.5	3529.3
57.5°	2038.9	2094.6	2457.9	3187.1	3574.1	3673.8	3766.8	3785.4	3784.5	4094.6
60°	1923.9	1981.4	2323.6	3139.0	3791.3	4156.3	4334.6	4337.1	4332.0	4698.7
62.5°	1699.2	1755.0	2091.2	2875.3	3851.3	4601.6	4998.7	5031.7	4799.3	5219.2
65°	1428.8	1474.4	1771.0	2472.3	3691.6	4884.6	5498.1	5459.2	5193.0	5516.6
67°	1168.6	1199.0	1487.9	2122.5	3274.2	4748.6	5642.5	5674.7	5374.7	5529.3
67.5°	1094.2	1122.1	1395.0	2003.4	3115.3	4645.5	5647.6	5642.5	5378.1	5531.9
70°	759.6	771.4	950.6	1378.1	2294.9	3924.8	5235.3	5247.1	5152.5	5231.9
72.5°	503.6	521.3	635.4	868.6	1352.8	2855.9	4376.0	4502.7	4442.7	4289.8
75°	324.5	334.6	415.7	517.1	665.8	1626.5	3232.8	3317.3	3179.5	2653.1
77.5°	181.7	192.6	250.9	314.3	324.5	676.8	1815.8	1920.6	1627.4	1127.2
80°	113.2	127.6	189.3	186.7	154.6	248.4	748.6	801.9	650.6	387.8
82.5°	85.3	96.3	146.2	131.0	87.0	110.7	280.5	300.8	238.3	149.6
85°	58.3	73.5	105.6	81.1	45.6	53.2	111.5	120.0	109.0	72.7
87.5°	21.1	31.3	54.9	40.6	20.3	16.1	36.3	40.6	38.9	33.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1121.2	0°	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2	1121.2
1131.4	2.5°	1147.4	1159.3	1165.2	1199.8	1214.2	1211.7	1215.0	1220.1	1225.2	1231.9
1145.7	5°	1156.7	1193.1	1212.5	1253.1	1280.1	1268.3	1283.5	1279.2	1273.3	1272.5
1171.9	7.5°	1187.1	1233.6	1291.9	1302.9	1314.7	1285.2	1259.8	1225.2	1216.7	1187.1
1193.9	10°	1241.2	1279.2	1350.2	1354.4	1302.1	1226.0	1169.4	1097.6	1096.7	1053.6
1227.7	12.5°	1292.8	1335.9	1393.3	1368.8	1243.8	1139.8	1047.7	969.2	936.2	914.2
1248.0	15°	1324.9	1395.8	1426.3	1320.6	1141.5	1001.3	882.1	797.6	763.8	747.8
1273.3	17.5°	1354.4	1453.3	1439.8	1236.2	1015.6	858.5	716.5	643.0	633.7	621.9
1313.9	20°	1395.0	1474.4	1391.6	1126.3	872.8	674.3	583.9	548.4	556.8	561.9
1318.1	22.5°	1433.0	1485.4	1330.8	1006.3	689.5	534.0	489.2	496.8	509.5	526.4
1328.3	25°	1449.9	1503.2	1248.8	840.7	524.7	449.5	439.4	452.0	473.2	474.0
1342.6	27.5°	1460.9	1490.5	1150.0	679.3	414.9	392.9	408.1	417.4	419.9	430.1
1373.0	30°	1480.3	1464.3	1024.9	485.8	348.1	349.0	368.4	368.4	368.4	376.0
1403.5	32.5°	1514.1	1446.5	878.7	354.9	300.0	327.0	321.9	320.2	316.9	307.6
1442.3	35°	1535.3	1398.4	693.7	262.8	269.5	300.0	298.3	272.1	228.1	206.2
1541.2	37.5°	1579.2	1373.9	510.3	202.8	251.8	286.4	277.1	213.8	165.6	144.5
1663.7	40°	1673.8	1357.8	353.2	177.4	240.0	279.7	247.6	182.5	126.7	89.6
1853.0	42.5°	1789.6	1358.7	240.0	167.3	240.8	294.0	238.3	156.3	89.6	71.8
2105.6	45°	1945.1	1346.0	164.8	167.3	256.0	317.7	244.2	142.0	87.0	91.3
2422.5	47.5°	2112.4	1357.0	122.5	152.1	258.6	318.5	223.1	139.4	83.6	105.6
2767.2	50°	2307.5	1368.0	101.4	140.3	259.4	308.4	205.3	136.0	87.0	111.5
3162.6	52.5°	2508.6	1402.6	86.2	132.7	269.5	304.2	205.3	141.1	87.0	97.2
3666.2	55°	2808.6	1491.3	124.2	165.6	306.7	332.1	252.6	197.7	121.7	125.1
4148.7	57.5°	3139.8	1582.6	138.6	174.1	315.2	299.1	272.1	218.0	128.4	129.3
4523.8	60°	3357.8	1586.0	137.7	169.8	294.9	258.6	266.2	229.8	131.0	110.7
4756.2	62.5°	3444.8	1482.9	143.6	169.8	274.6	241.7	272.9	247.6	135.2	138.6
4822.1	65°	3346.0	1270.0	138.6	152.1	241.7	216.3	274.6	250.9	147.9	139.4
4703.8	67°	3191.4	1094.2	141.1	144.5	224.8	205.3	289.0	263.6	171.5	167.3
4642.1	67.5°	3147.4	1047.7	140.3	140.3	218.8	201.9	292.4	263.6	174.9	173.2
4097.1	70°	2774.0	849.2	143.6	138.6	193.5	191.8	310.9	278.0	201.1	202.8
3009.7	72.5°	2111.5	643.8	142.8	138.6	168.1	183.4	313.5	287.3	218.8	202.8
1685.7	75°	1199.8	385.3	125.9	120.8	132.7	159.7	293.2	273.8	212.9	181.7
673.4	77.5°	496.0	198.6	115.8	109.0	109.8	130.1	244.2	255.2	202.8	154.6
224.8	80°	185.0	119.1	92.9	87.0	84.5	95.5	174.1	203.6	173.2	126.7
98.9	82.5°	96.3	74.4	63.4	63.4	57.5	60.8	93.8	135.2	131.0	87.0
39.7	85°	49.0	42.2	36.3	35.5	32.1	28.7	47.3	80.3	75.2	48.2
17.7	87.5°	26.2	23.7	15.2	14.4	11.8	7.6	8.4	16.1	26.2	21.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O





<u>180°</u>
1121.2
1238.7
1280.1
1197.3
1052.0
909.2
744.4
627.8
556.0
517.1
482.5
439.4
384.5
302.5
216.3
143.6
87.0
70.1
92.9
117.4
129.3
99.7
131.8
125.1
114.1
140.3
136.9
164.8
169.8
187.6
180.0
162.2
146.2
115.8
68.4
39.7
15.2
0.0

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