

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: P477879

Luminaire Tested: **IFLD-S-SA2B-827-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477879
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

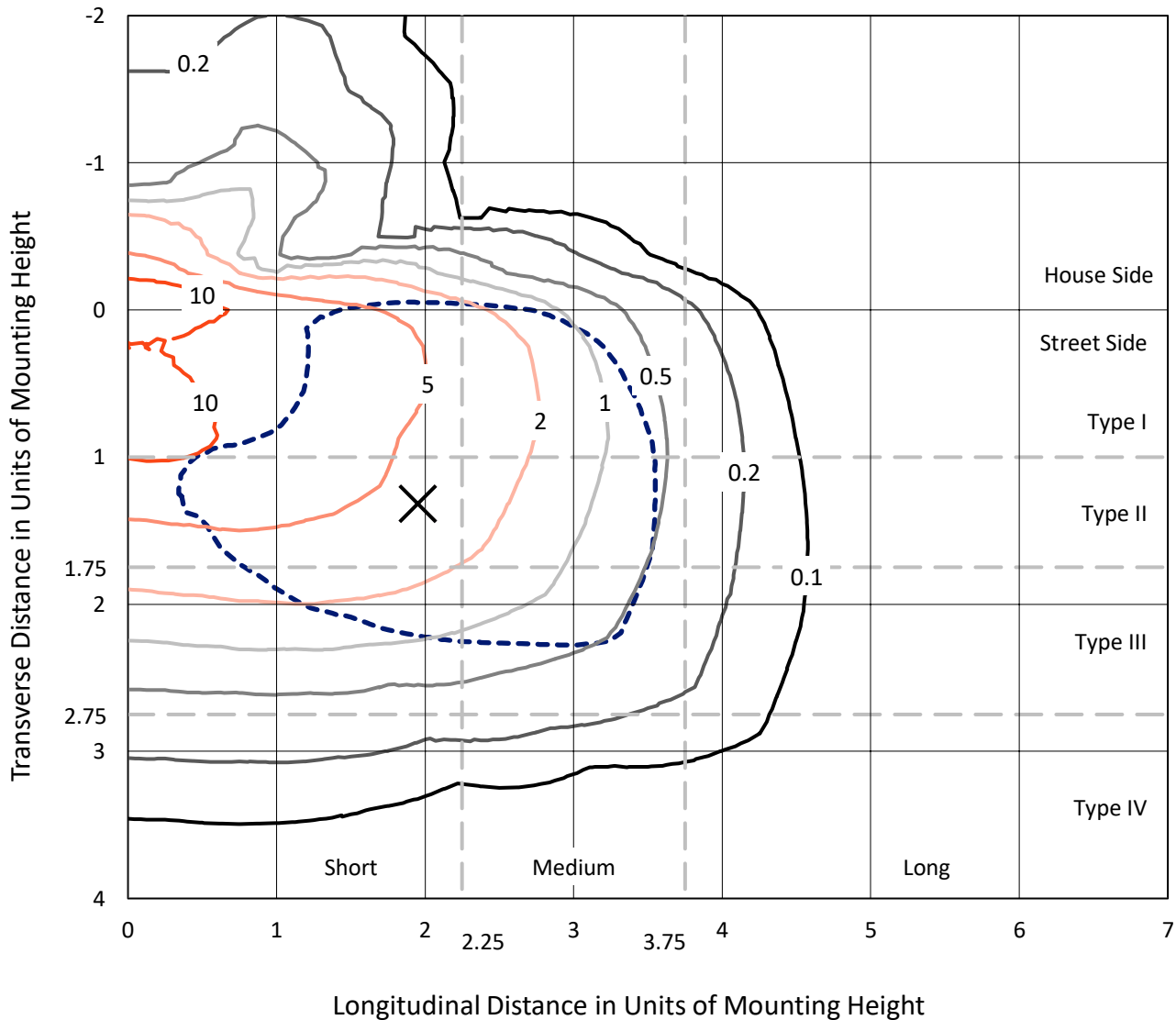
Lumens per Lamp: N/A
Luminaire Lumens: 8244.6 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (A_{in}): 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

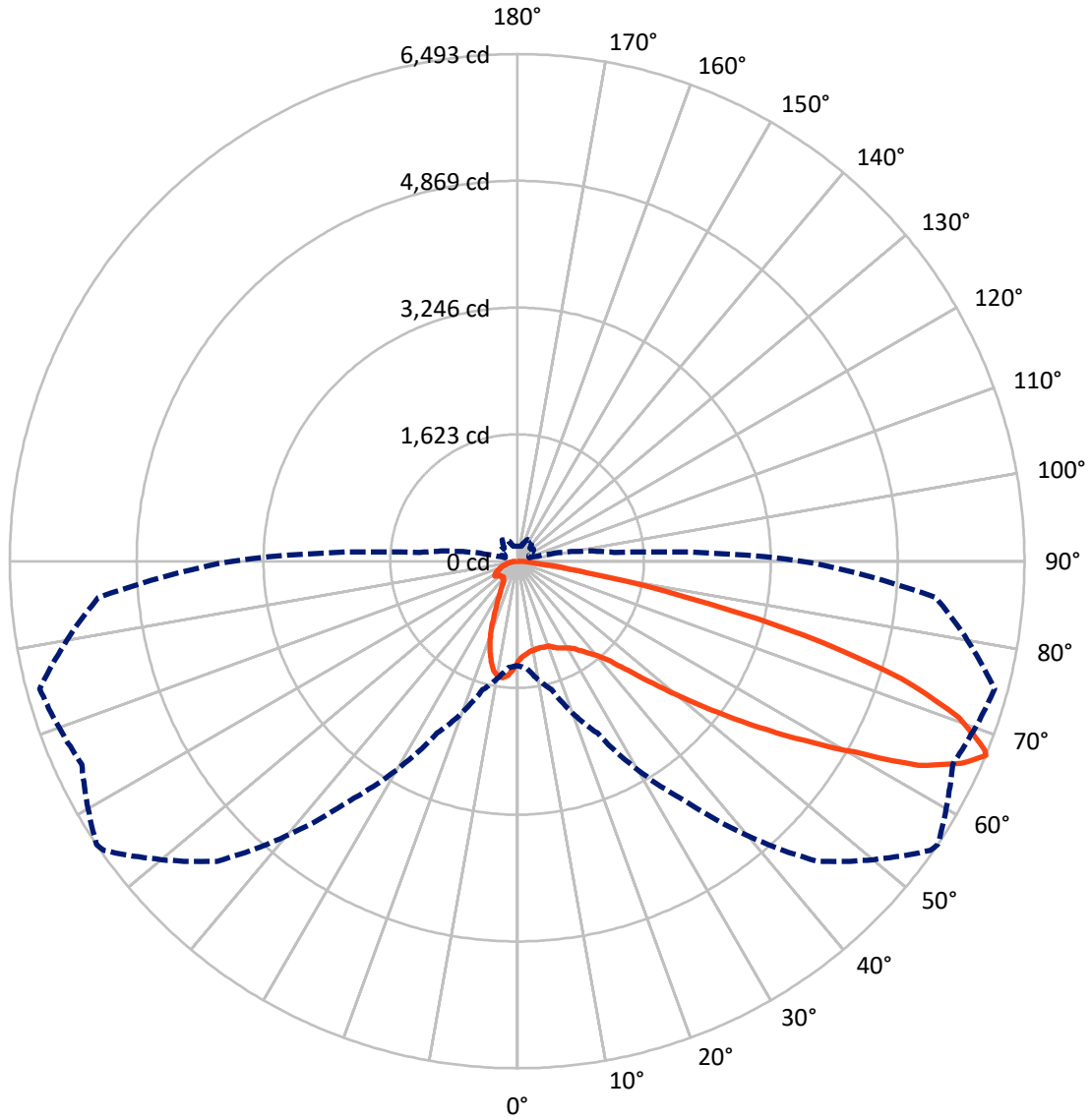
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1305.2	0.0	1305.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	6939.4	0.0	6939.4
	% Fixture	84.2	0.0	84.2
Total	Lumens	8244.6	0.0	8244.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	1.5
10°-20°	337.2	4.1
20°-30°	528.8	6.4
30°-40°	754.8	9.2
40°-50°	1139.2	13.8
50°-60°	1813.5	22.0
60°-70°	2318.4	28.1
70°-80°	1130.4	13.7
80°-90°	98.9	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°	8244.6	100.0
0°-180°	8244.6	100.0

Coefficient of Utilization

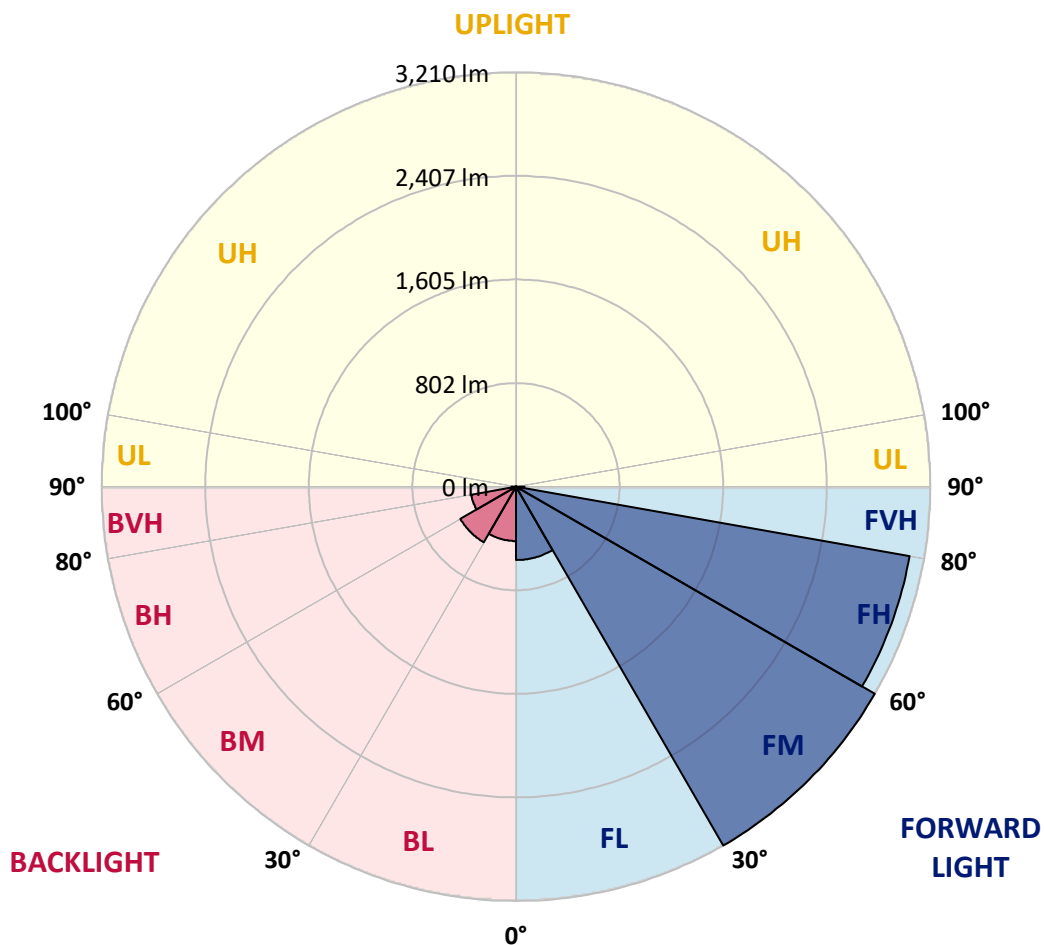


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.1	6.9			
FM (30°-60°)	3209.6	38.9			
FH (60°-80°)	3096.0	37.6			G2/5000
FVH (80°-90°)	65.7	0.8			G1/100
BL (0°-30°)	421.4	5.1	B1/500		
BM (30°-60°)	497.9	6.0	B1/1000		
BH (60°-80°)	352.7	4.3	B1/500		G1/500
BVH (80°-90°)	33.2	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°	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8
2.5°	1178.4	1173.6	1179.4	1173.6	1199.7	1215.2	1220.0	1226.8	1250.9	1274.1
5°	1129.1	1107.9	1131.1	1138.8	1140.7	1166.8	1193.9	1198.7	1211.3	1249.0
7.5°	1047.0	1071.1	1062.4	1085.6	1109.8	1135.9	1180.4	1167.8	1214.2	1250.0
10°	1029.6	1031.5	1041.2	1049.9	1071.1	1105.0	1166.8	1159.1	1206.5	1282.8
12.5°	1047.0	1047.0	1044.1	1037.3	1061.5	1094.3	1143.6	1147.5	1221.9	1292.5
15°	1107.9	1119.5	1088.5	1093.4	1083.7	1094.3	1137.8	1146.5	1227.7	1300.2
17.5°	1256.7	1252.9	1216.1	1164.9	1122.4	1115.6	1145.6	1155.2	1221.9	1322.5
20°	1401.7	1394.0	1330.2	1277.0	1192.9	1153.3	1158.1	1159.1	1231.6	1337.0
22.5°	1563.2	1583.5	1513.9	1405.6	1301.2	1202.6	1183.3	1198.7	1253.8	1344.7
25°	1816.5	1773.0	1713.0	1570.9	1402.7	1279.0	1224.8	1232.6	1275.1	1364.0
27.5°	1999.2	1981.8	1888.0	1773.0	1544.8	1338.9	1247.1	1261.6	1313.8	1363.1
30°	2175.1	2175.1	2118.1	1946.0	1694.7	1439.4	1294.4	1287.7	1295.4	1361.1
32.5°	2381.0	2353.0	2270.8	2156.8	1883.2	1531.3	1332.1	1334.1	1334.1	1396.9
35°	2489.3	2534.7	2479.6	2294.0	2027.2	1684.0	1423.0	1408.5	1397.9	1436.5
37.5°	2647.9	2674.9	2616.9	2507.7	2206.1	1807.8	1503.3	1491.7	1429.8	1467.5
40°	2743.6	2738.7	2736.8	2686.5	2442.9	1953.7	1621.2	1591.2	1508.1	1576.7
42.5°	2797.7	2788.0	2906.9	2876.0	2666.2	2168.4	1769.1	1752.7	1660.8	1771.0
45°	2858.6	2930.1	3027.8	3114.8	2926.3	2470.0	2019.5	1996.3	1914.1	2054.3
47.5°	2911.8	2999.7	3124.4	3217.3	3161.2	2797.7	2328.8	2334.6	2280.5	2424.5
50°	3000.7	3009.4	3178.6	3366.1	3409.6	3100.3	2744.5	2734.9	2710.7	2912.7
52.5°	2973.6	2999.7	3213.4	3453.1	3524.7	3420.3	3191.2	3220.2	3188.3	3442.5
55°	2532.8	2611.1	3192.1	3545.0	3797.3	3781.8	3765.4	3746.0	3744.1	4038.0
57.5°	2332.7	2396.5	2812.2	3646.5	4089.2	4203.3	4309.6	4330.9	4329.9	4684.7
60°	2201.2	2267.0	2658.5	3591.4	4337.7	4755.3	4959.3	4962.2	4956.4	5375.9
62.5°	1944.1	2007.9	2392.6	3289.8	4406.3	5264.8	5719.1	5756.8	5491.0	5971.4
65°	1634.7	1686.9	2026.2	2828.6	4223.6	5588.6	6290.5	6246.0	5941.5	6311.7
67°	1337.0	1371.8	1702.4	2428.4	3746.0	5433.0	6455.8	6492.5	6149.3	6326.2
67.5°	1251.9	1283.8	1596.1	2292.1	3564.3	5315.0	6461.6	6455.8	6153.2	6329.1
70°	869.1	882.6	1087.6	1576.7	2625.6	4490.4	5989.8	6003.3	5895.1	5985.9
72.5°	576.2	596.5	727.0	993.8	1547.7	3267.5	5006.7	5151.7	5083.0	4908.0
75°	371.2	382.8	475.6	591.6	761.8	1860.9	3698.7	3795.4	3637.8	3035.5
77.5°	207.8	220.4	287.1	359.6	371.2	774.3	2077.5	2197.4	1861.9	1289.6
80°	129.5	146.0	216.5	213.6	176.9	284.2	856.5	917.4	744.4	443.7
82.5°	97.6	110.2	167.2	149.8	99.6	126.6	321.0	344.2	272.6	171.1
85°	66.7	84.1	120.8	92.8	52.2	60.9	127.6	137.3	124.7	83.1
87.5°	24.2	35.8	62.8	46.4	23.2	18.4	41.6	46.4	44.5	37.7
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°
1282.8	0°	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8	1282.8
1294.4	2.5°	1312.8	1326.3	1333.1	1372.7	1389.2	1386.3	1390.1	1395.9	1401.7	1409.5
1310.9	5°	1323.4	1365.0	1387.2	1433.6	1464.6	1451.1	1468.5	1463.6	1456.9	1455.9
1340.8	7.5°	1358.2	1411.4	1478.1	1490.7	1504.2	1470.4	1441.4	1401.7	1392.1	1358.2
1366.0	10°	1420.1	1463.6	1544.8	1549.7	1489.7	1402.7	1337.9	1255.8	1254.8	1205.5
1404.6	12.5°	1479.1	1528.4	1594.1	1566.1	1423.0	1304.1	1198.7	1108.8	1071.1	1046.0
1427.8	15°	1515.8	1597.0	1631.8	1511.0	1306.0	1145.6	1009.3	912.6	873.9	855.5
1456.9	17.5°	1549.7	1662.8	1647.3	1414.3	1162.0	982.2	819.8	735.7	725.0	711.5
1503.3	20°	1596.1	1686.9	1592.2	1288.6	998.6	771.4	668.0	627.4	637.1	642.9
1508.1	22.5°	1639.6	1699.5	1522.6	1151.4	788.8	611.0	559.7	568.4	582.9	602.3
1519.7	25°	1658.9	1719.8	1428.8	961.9	600.3	514.3	502.7	517.2	541.4	542.3
1536.1	27.5°	1671.5	1705.3	1315.7	777.2	474.7	449.5	466.9	477.6	480.5	492.1
1570.9	30°	1693.7	1675.3	1172.6	555.9	398.3	399.3	421.5	421.5	421.5	430.2
1605.7	32.5°	1732.4	1655.0	1005.4	406.0	343.2	374.1	368.3	366.4	362.5	351.9
1650.2	35°	1756.5	1599.9	793.7	300.7	308.4	343.2	341.3	311.3	261.0	235.9
1763.3	37.5°	1806.8	1571.9	583.9	232.0	288.1	327.7	317.1	244.6	189.5	165.3
1903.5	40°	1915.1	1553.5	404.1	203.0	274.5	320.0	283.2	208.8	145.0	102.5
2120.0	42.5°	2047.5	1554.5	274.5	191.4	275.5	336.4	272.6	178.8	102.5	82.2
2409.1	45°	2225.4	1540.0	188.5	191.4	292.9	363.5	279.4	162.4	99.6	104.4
2771.6	47.5°	2416.8	1552.6	140.2	174.0	295.8	364.5	255.2	159.5	95.7	120.8
3166.0	50°	2640.1	1565.1	116.0	160.5	296.8	352.9	234.9	155.6	99.6	127.6
3618.4	52.5°	2870.2	1604.8	98.6	151.8	308.4	348.0	234.9	161.4	99.6	111.2
4194.6	55°	3213.4	1706.3	142.1	189.5	350.9	379.9	289.0	226.2	139.2	143.1
4746.6	57.5°	3592.3	1810.7	158.5	199.1	360.6	342.2	311.3	249.4	146.9	147.9
5175.8	60°	3841.8	1814.5	157.6	194.3	337.4	295.8	304.5	262.9	149.8	126.6
5441.7	62.5°	3941.3	1696.6	164.3	194.3	314.2	276.5	312.3	283.2	154.7	158.5
5517.1	65°	3828.2	1453.0	158.5	174.0	276.5	247.5	314.2	287.1	169.2	159.5
5381.7	67°	3651.3	1251.9	161.4	165.3	257.1	234.9	330.6	301.6	196.2	191.4
5311.2	67.5°	3601.0	1198.7	160.5	160.5	250.4	231.0	334.5	301.6	200.1	198.2
4687.6	70°	3173.7	971.6	164.3	158.5	221.4	219.4	355.8	318.1	230.1	232.0
3443.5	72.5°	2415.8	736.6	163.4	158.5	192.4	209.8	358.7	328.7	250.4	232.0
1928.6	75°	1372.7	440.8	144.0	138.2	151.8	182.7	335.5	313.2	243.6	207.8
770.5	77.5°	567.5	227.2	132.4	124.7	125.7	148.9	279.4	292.0	232.0	176.9
257.1	80°	211.7	136.3	106.3	99.6	96.7	109.2	199.1	233.0	198.2	145.0
113.1	82.5°	110.2	85.1	72.5	72.5	65.7	69.6	107.3	154.7	149.8	99.6
45.4	85°	56.1	48.3	41.6	40.6	36.7	32.9	54.1	91.8	86.0	55.1
20.3	87.5°	30.0	27.1	17.4	16.4	13.5	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

(END O



<u>180°</u>
1282.8
1417.2
1464.6
1369.8
1203.6
1040.2
851.7
718.3
636.1
591.6
552.0
502.7
439.9
346.1
247.5
164.3
99.6
80.2
106.3
134.4
147.9
114.1
150.8
143.1
130.5
160.5
156.6
188.5
194.3
214.6
205.9
185.6
167.2
132.4
78.3
45.4
17.4
0.0

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