

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: P477255

Luminaire Tested: **IFLD-S-SA2B-727-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477255
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

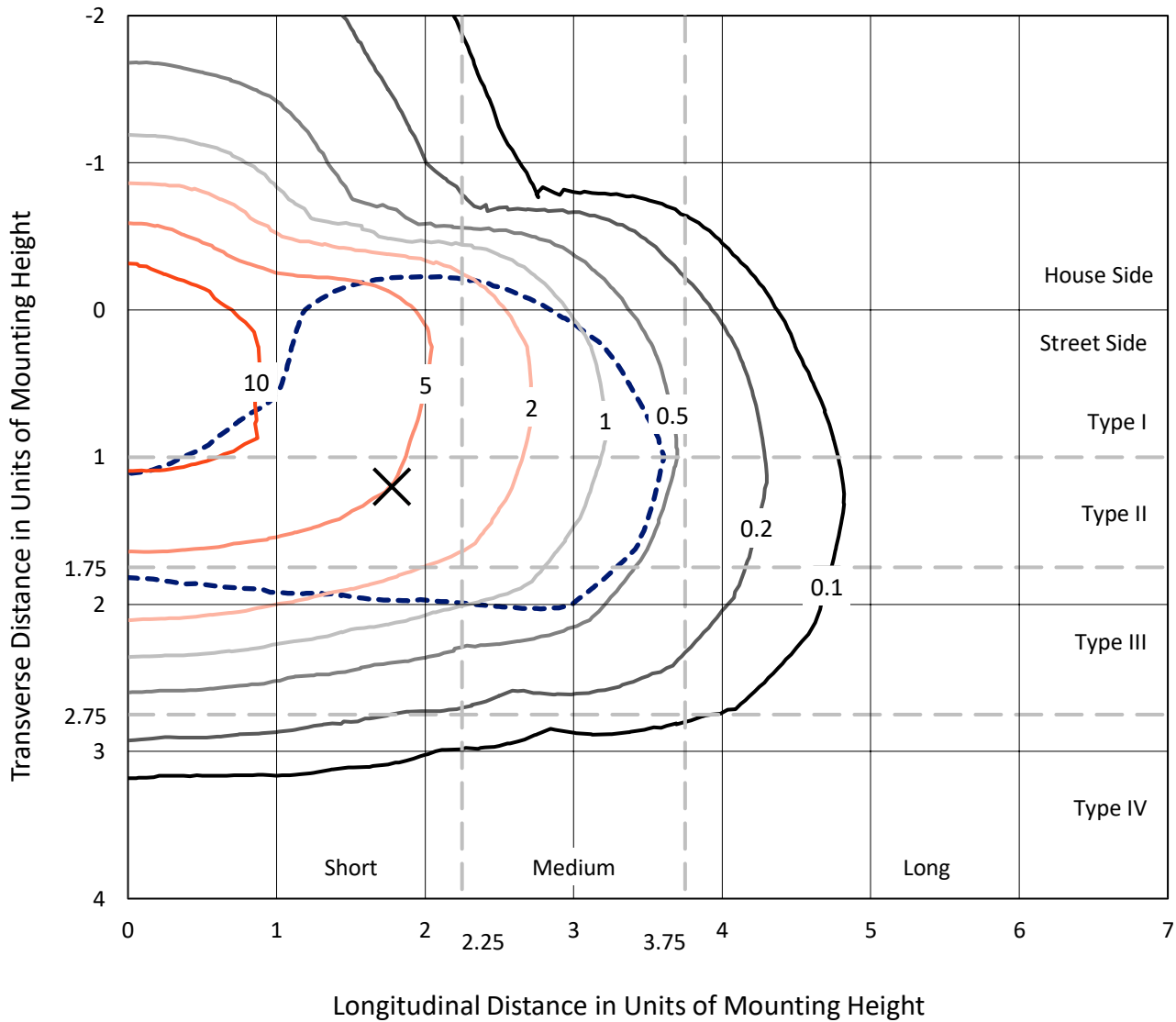
Lumens per Lamp: N/A
Luminaire Lumens: 9725.5 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

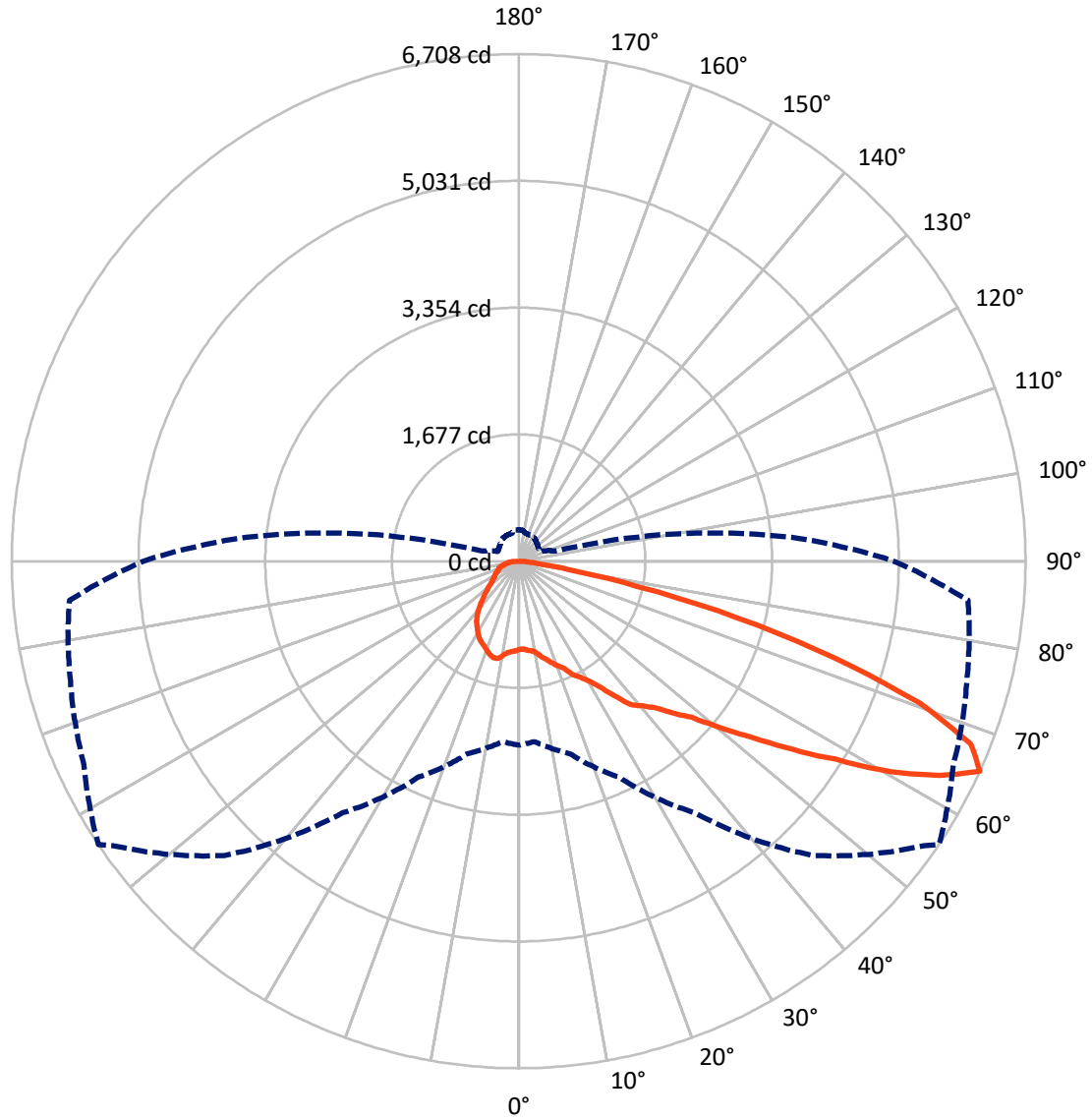
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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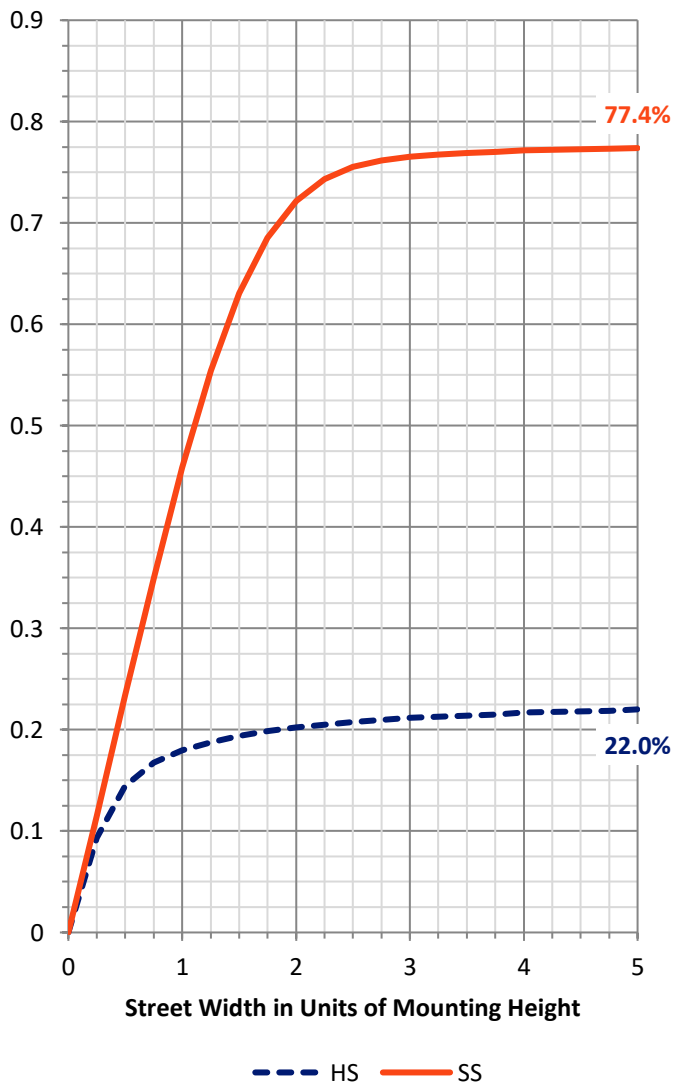
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2181.1	0.0	2181.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7544.4	0.0	7544.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	9725.5	0.0	9725.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	1.2
10°-20°	375.6	3.9
20°-30°	668.8	6.9
30°-40°	1001.5	10.3
40°-50°	1483.9	15.3
50°-60°	2286.5	23.5
60°-70°	2588.6	26.6
70°-80°	1074.3	11.0
80°-90°	130.5	1.3
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°	9725.5	100.0
0°-180°	9725.5	100.0

Coefficient of Utilization



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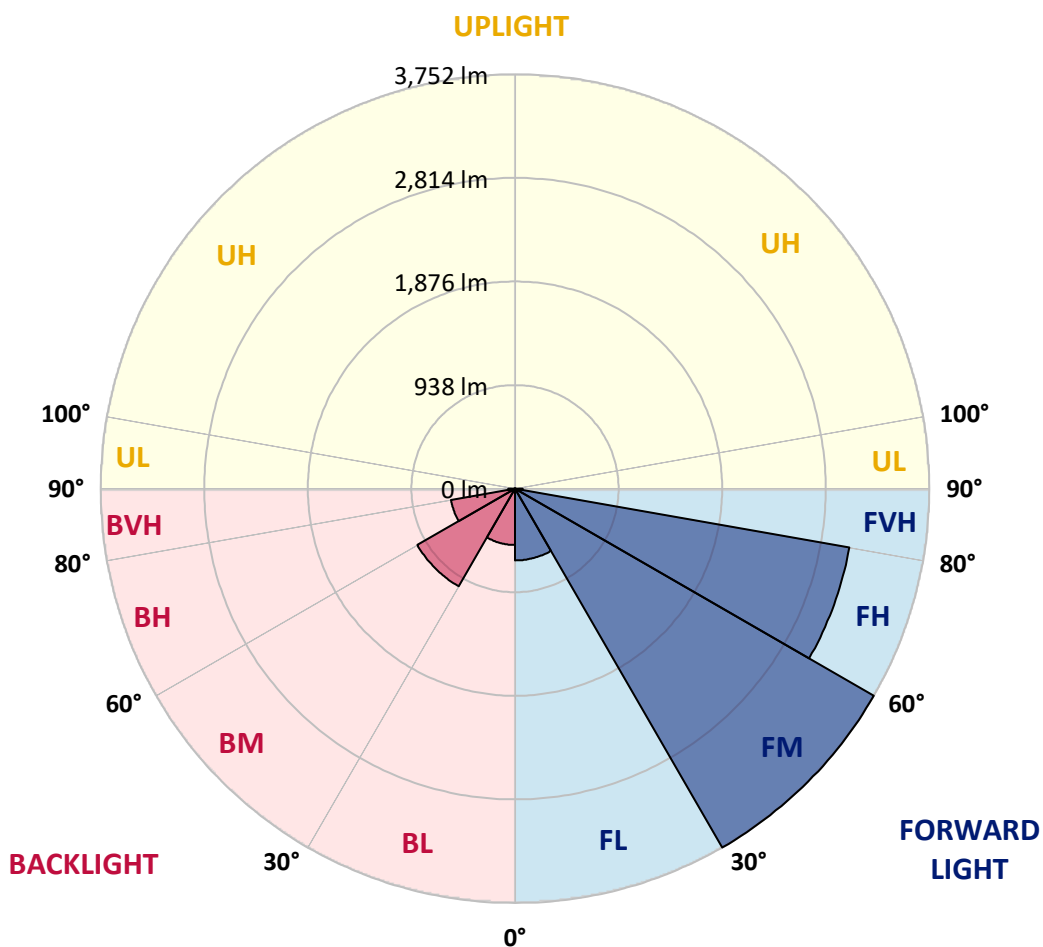
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.9	6.7			
FM (30°-60°)	3751.7	38.6			
FH (60°-80°)	3073.9	31.6			G2/5000
FVH (80°-90°)	68.8	0.7			G1/100
BL (0°-30°)	510.2	5.2	B2/1000		
BM (30°-60°)	1020.3	10.5	B2/2500		
BH (60°-80°)	589.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	61.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3
2.5°	1136.8	1142.9	1138.8	1151.1	1161.2	1161.2	1169.4	1163.3	1171.4	1182.6
5°	1174.5	1150.0	1163.3	1169.4	1166.3	1171.4	1163.3	1183.6	1170.4	1191.8
7.5°	1183.6	1192.8	1204.0	1193.8	1203.0	1197.9	1198.9	1195.8	1188.7	1206.0
10°	1250.8	1237.6	1263.0	1247.7	1245.7	1243.7	1239.6	1224.3	1241.6	1242.7
12.5°	1328.1	1315.9	1314.9	1302.7	1319.0	1289.5	1295.6	1287.4	1290.5	1294.6
15°	1384.1	1379.0	1402.4	1388.2	1366.8	1353.6	1367.8	1345.4	1356.6	1354.6
17.5°	1495.1	1494.0	1476.7	1453.3	1441.1	1421.8	1418.7	1409.6	1417.7	1413.6
20°	1572.4	1583.6	1586.6	1559.2	1512.4	1491.0	1485.9	1478.8	1487.9	1484.9
22.5°	1690.5	1673.2	1686.4	1638.6	1621.2	1570.4	1552.0	1541.9	1585.6	1574.4
25°	1765.8	1784.1	1770.9	1754.6	1715.9	1652.8	1639.6	1662.0	1679.3	1667.0
27.5°	1935.7	1917.4	1905.2	1856.3	1830.9	1764.8	1749.5	1741.3	1745.4	1752.5
30°	2065.0	2075.2	2047.7	2013.1	1949.0	1881.8	1846.2	1839.0	1824.8	1812.6
32.5°	2249.2	2233.9	2217.6	2195.3	2140.3	2051.8	2017.1	1990.7	1947.9	1890.9
35°	2337.7	2381.5	2369.3	2309.2	2267.5	2233.9	2223.7	2183.0	2147.4	2057.9
37.5°	2485.3	2503.6	2486.3	2467.0	2447.6	2412.0	2399.8	2411.0	2340.8	2193.2
40°	2581.0	2619.6	2655.3	2601.3	2597.3	2604.4	2529.1	2515.8	2371.3	2294.0
42.5°	2776.4	2792.7	2799.8	2797.8	2821.2	2821.2	2677.7	2649.2	2546.4	2483.3
45°	3034.9	3048.1	3073.6	3091.9	3065.4	3078.6	2874.1	2862.9	2771.3	2759.1
47.5°	3258.8	3290.3	3347.3	3401.3	3435.9	3391.1	3167.2	3087.8	3064.4	3137.7
50°	3454.2	3416.5	3549.9	3604.8	3756.5	3830.8	3490.8	3459.3	3421.6	3562.1
52.5°	3473.5	3524.4	3712.7	3822.6	4135.1	4272.4	3887.7	3874.5	3828.7	3990.5
55°	3611.9	3605.8	3795.1	4033.3	4404.8	4635.8	4404.8	4396.6	4296.9	4450.5
57.5°	3588.5	3650.6	3800.2	4133.0	4648.0	5025.6	5004.2	4948.2	4808.8	4934.0
60°	3509.1	3525.4	3707.6	4130.0	4789.5	5425.5	5651.5	5662.7	5377.7	5477.4
62.5°	3059.3	3097.0	3328.0	3805.3	4688.7	5701.3	6283.5	6243.8	6015.8	5901.8
65°	2433.4	2395.7	2635.9	3151.9	4061.8	5505.9	6560.3	6707.9	6349.6	6141.0
67.5°	1492.0	1482.8	1713.9	2168.8	3039.0	4685.6	6339.5	6454.5	6257.0	6090.1
70°	768.4	745.0	889.5	1210.1	1910.3	3437.9	5517.1	5630.1	5818.4	5462.2
72.5°	358.2	353.2	430.5	595.4	973.0	2021.2	4272.4	4353.9	4750.8	4605.2
75°	210.7	213.7	257.5	311.4	474.3	952.6	2835.4	2993.2	3423.7	3318.8
77.5°	157.7	157.7	183.2	216.8	276.8	368.4	1399.4	1608.0	2001.9	1800.4
80°	116.0	118.1	140.4	162.8	192.4	190.3	555.7	651.3	918.0	784.7
82.5°	90.6	93.6	108.9	121.1	135.4	115.0	228.0	245.3	377.6	300.2
85°	63.1	65.1	85.5	82.4	82.4	64.1	94.6	99.7	149.6	142.5
87.5°	15.3	17.3	41.7	45.8	34.6	19.3	29.5	33.6	53.9	62.1
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°
1167.3	0°	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3	1167.3
1187.7	2.5°	1172.4	1176.5	1193.8	1184.6	1189.7	1168.4	1185.7	1171.4	1183.6	1177.5
1196.9	5°	1205.0	1195.8	1206.0	1198.9	1198.9	1207.0	1219.2	1210.1	1228.4	1220.3
1204.0	7.5°	1218.2	1219.2	1225.4	1226.4	1221.3	1246.7	1247.7	1244.7	1262.0	1257.9
1252.8	10°	1250.8	1251.8	1263.0	1269.1	1264.0	1273.2	1263.0	1254.9	1253.8	1249.8
1291.5	12.5°	1302.7	1312.9	1310.8	1315.9	1316.9	1278.3	1254.9	1215.2	1210.1	1215.2
1348.5	15°	1350.5	1346.5	1348.5	1358.7	1315.9	1253.8	1212.1	1178.5	1180.6	1181.6
1422.8	17.5°	1407.5	1410.6	1413.6	1366.8	1288.5	1215.2	1178.5	1178.5	1168.4	1172.4
1474.7	20°	1472.7	1460.4	1434.0	1367.8	1240.6	1170.4	1159.2	1159.2	1147.0	1138.8
1530.7	22.5°	1523.5	1499.1	1459.4	1336.3	1197.9	1153.1	1125.6	1106.3	1092.0	1075.7
1592.8	25°	1556.1	1542.9	1465.5	1303.7	1166.3	1107.3	1066.6	1037.1	1018.8	997.4
1641.6	27.5°	1606.0	1580.5	1482.8	1266.1	1131.7	1061.5	998.4	952.6	918.0	895.6
1715.9	30°	1673.2	1636.5	1470.6	1212.1	1078.8	982.1	907.8	848.8	809.1	790.8
1786.1	32.5°	1728.1	1680.3	1460.4	1163.3	1019.8	901.7	803.0	742.9	720.6	697.1
1904.2	35°	1832.9	1738.3	1453.3	1135.8	966.8	821.3	717.5	665.6	637.1	602.5
1974.4	37.5°	1913.3	1839.0	1436.0	1078.8	898.7	742.9	652.4	605.6	562.8	526.2
2137.2	40°	2039.5	1979.5	1437.0	998.4	818.3	675.8	601.5	552.6	498.7	467.1
2378.4	42.5°	2276.7	2117.9	1443.1	934.3	727.7	620.8	555.7	497.7	443.7	417.3
2653.2	45°	2567.7	2308.2	1405.5	876.3	635.1	568.9	500.7	442.7	408.1	388.8
3026.7	47.5°	2902.6	2494.5	1354.6	767.4	557.7	514.0	449.8	416.3	390.8	379.6
3508.1	50°	3277.1	2761.1	1340.4	667.6	497.7	467.1	425.4	400.0	382.7	369.4
4050.6	52.5°	3759.5	3071.5	1311.9	564.8	445.8	429.5	416.3	399.0	383.7	372.5
4556.4	55°	4220.5	3415.5	1281.3	480.4	409.1	411.2	418.3	403.0	389.8	372.5
5123.3	57.5°	4739.6	3766.6	1168.4	418.3	381.7	402.0	416.3	399.0	385.7	372.5
5703.4	60°	5060.2	3964.1	947.5	364.3	357.2	384.7	404.0	385.7	371.5	376.6
5970.0	62.5°	5190.4	3860.3	714.4	330.8	339.9	361.3	384.7	377.6	367.4	386.7
5967.0	65°	4968.6	3621.1	510.9	302.3	316.5	337.9	367.4	375.5	378.6	416.3
5480.5	67.5°	4421.0	3152.9	375.5	278.9	292.1	323.6	379.6	392.8	390.8	437.6
4599.1	70°	3537.6	2466.0	293.1	259.5	282.9	334.8	396.9	396.9	382.7	437.6
3508.1	72.5°	2573.8	1738.3	252.4	237.1	259.5	307.4	394.9	393.9	375.5	400.0
2233.9	75°	1558.2	1011.6	222.9	214.7	222.9	263.6	377.6	371.5	346.0	344.0
1074.7	77.5°	776.5	508.9	182.2	190.3	194.4	220.8	331.8	340.9	306.3	298.2
424.4	80°	327.7	221.9	151.6	163.9	163.9	186.2	275.8	281.9	254.4	239.2
167.9	82.5°	149.6	127.2	129.3	142.5	133.3	144.5	218.8	225.9	206.6	181.2
71.2	85°	63.1	72.3	98.7	112.0	98.7	93.6	150.6	158.8	134.3	112.0
30.5	87.5°	28.5	39.7	62.1	81.4	49.9	43.8	80.4	83.5	67.2	49.9
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>
1167.3
1166.3
1209.1
1251.8
1249.8
1217.2
1195.8
1173.4
1126.6
1066.6
1001.5
905.8
801.0
696.1
599.4
527.2
470.2
419.3
392.8
377.6
371.5
371.5
371.5
371.5
372.5
381.7
416.3
440.7
428.5
385.7
339.9
293.1
234.1
177.1
113.0
46.8
0.0

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