

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: McGRAW-EDISON

Report Number: P939257

Luminaire Tested: **GALN-SB1D-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10186 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

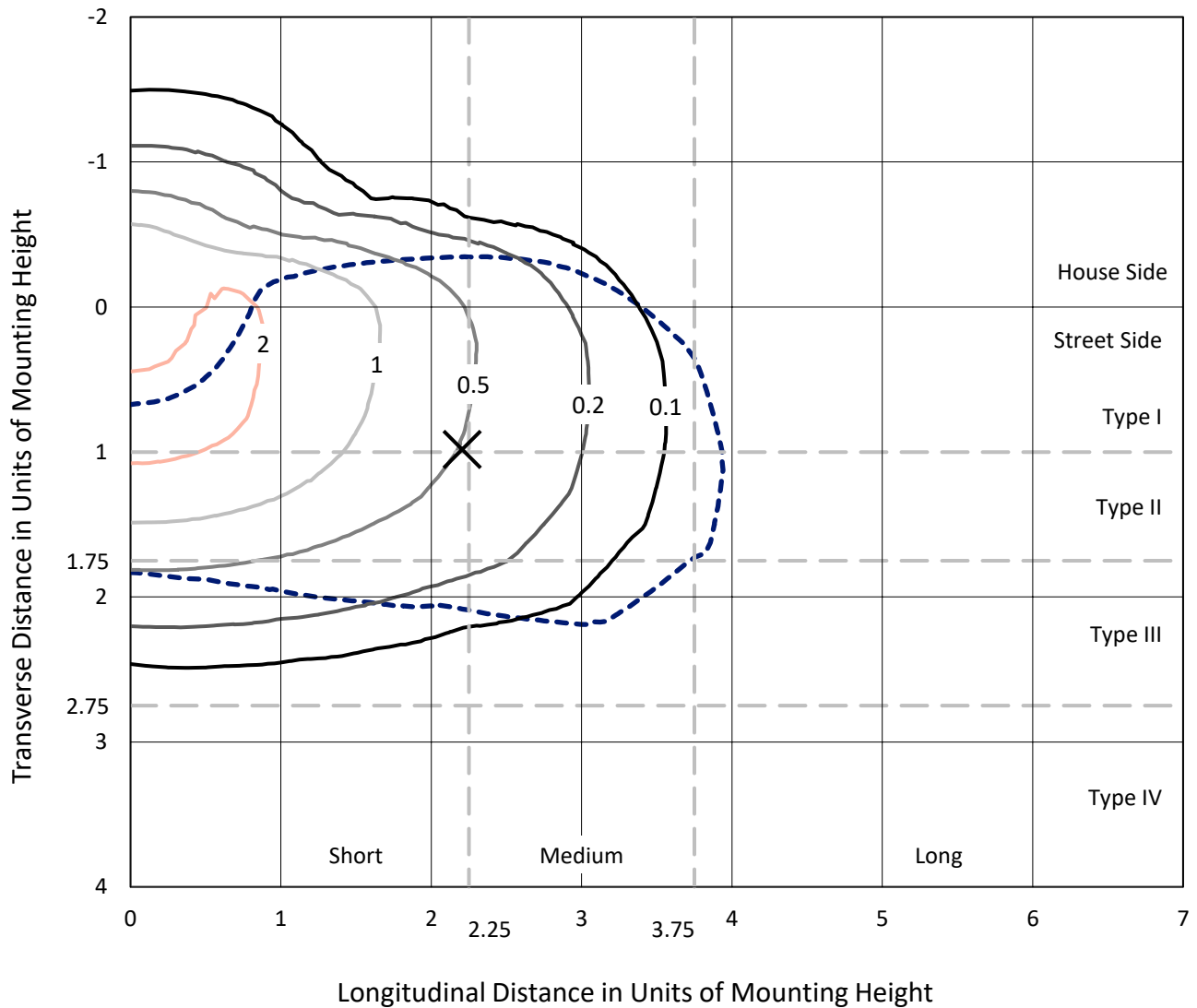
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

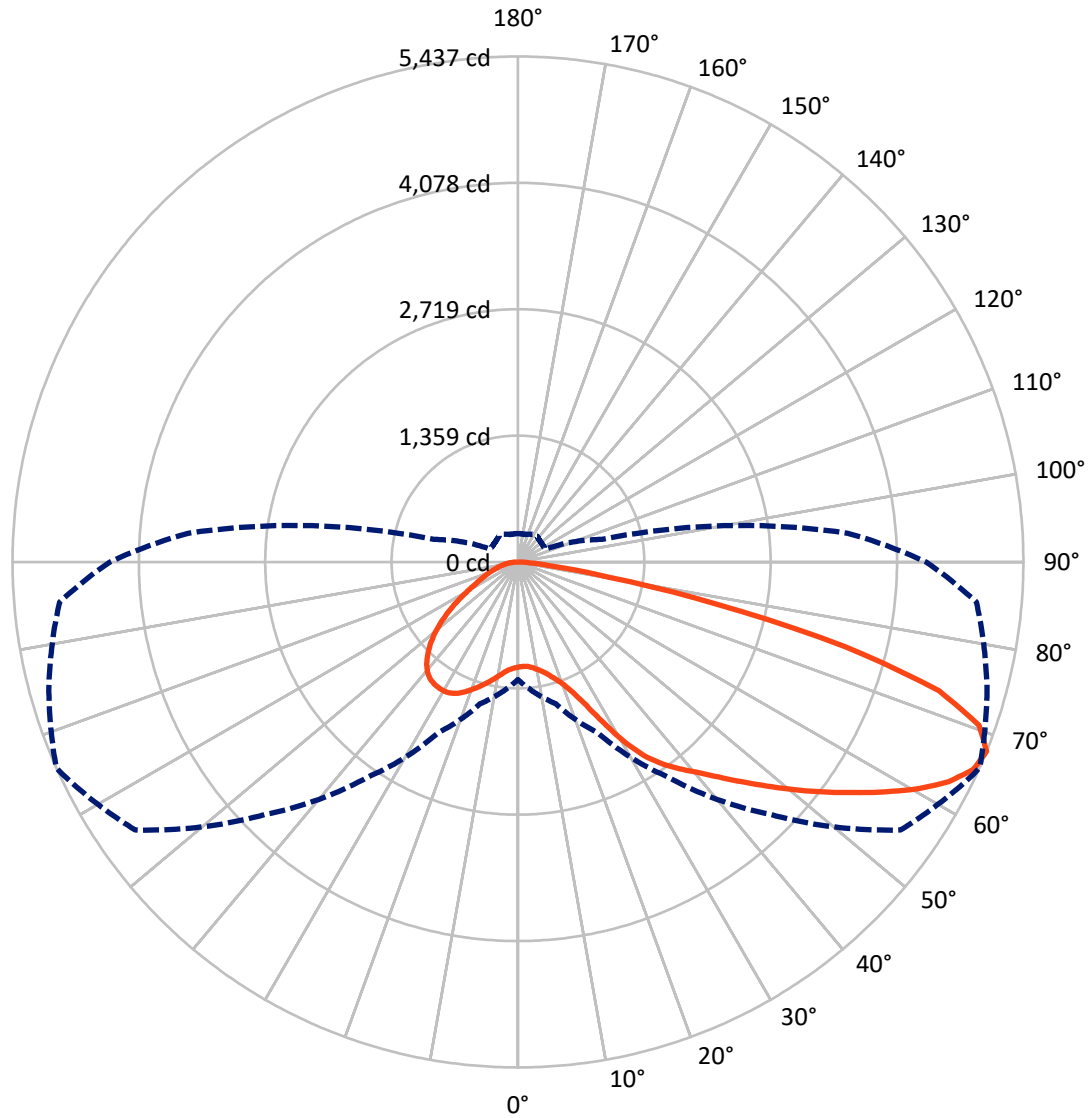
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2532.7	0.0	2532.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7653.3	0.0	7653.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	10186.0	0.0	10186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	1.1
10°-20°	370.1	3.6
20°-30°	713.3	7.0
30°-40°	1250.7	12.3
40°-50°	1859.3	18.3
50°-60°	2356.9	23.1
60°-70°	2306.1	22.6
70°-80°	1100.1	10.8
80°-90°	117.6	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°	10186.0	100.0
0°-180°	10186.0	100.0

Coefficient of Utilization



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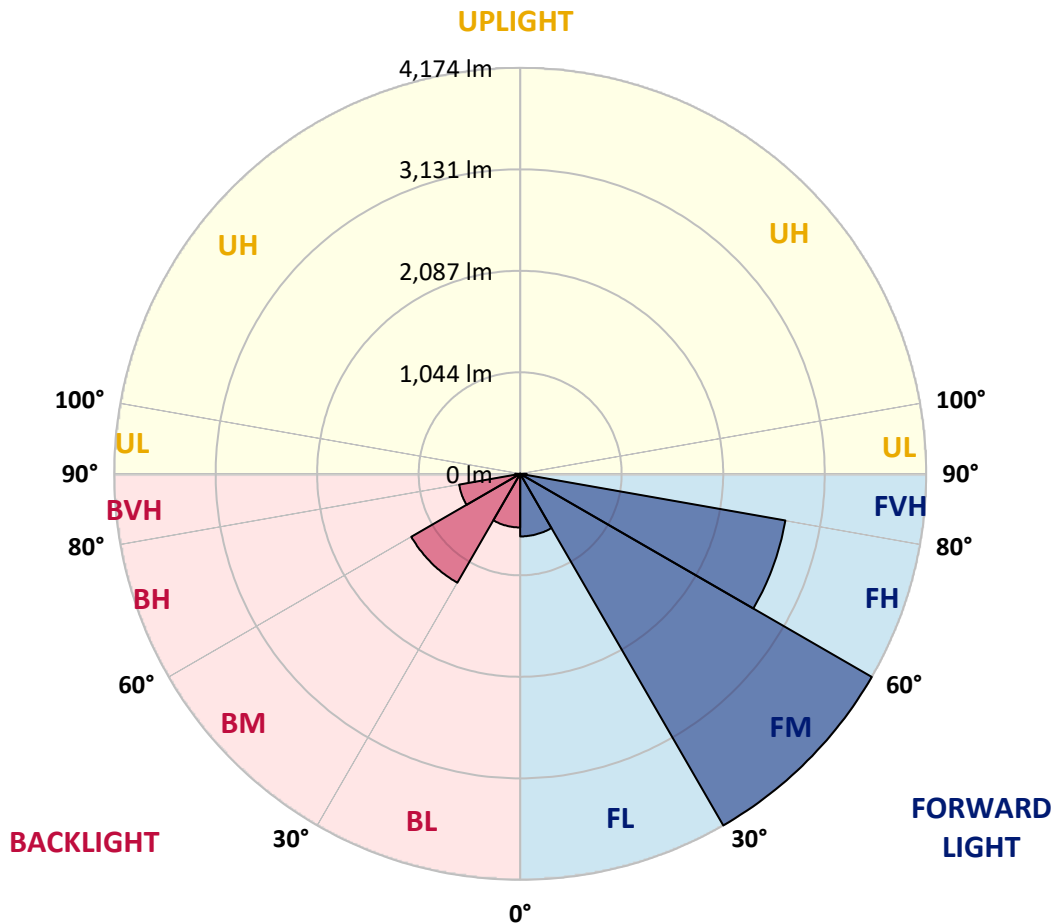
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.7	6.3			
FM (30°-60°)	4174.1	41.0			
FH (60°-80°)	2768.8	27.2			G2/5000
FVH (80°-90°)	66.7	0.7			G1/100
BL (0°-30°)	551.7	5.4	B2/1000		
BM (30°-60°)	1292.7	12.7	B2/2500		
BH (60°-80°)	637.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	50.9	0.5			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°	65°	66°	75°
0°	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8
2.5°	1118.0	1124.4	1122.8	1120.1	1119.6	1120.7	1122.3	1123.9	1123.3	1126.0
5°	1114.8	1121.2	1120.7	1120.7	1122.8	1127.1	1129.8	1132.4	1129.8	1133.0
7.5°	1116.9	1121.7	1123.9	1126.0	1131.4	1139.4	1145.8	1151.7	1148.5	1152.2
10°	1144.2	1148.0	1150.1	1150.1	1153.8	1162.9	1169.4	1180.1	1177.4	1183.3
12.5°	1194.0	1197.7	1197.7	1195.6	1198.3	1204.2	1206.3	1218.1	1213.2	1222.9
15°	1255.0	1262.5	1256.6	1252.9	1253.9	1259.8	1259.3	1268.4	1263.6	1271.6
17.5°	1322.4	1332.1	1322.4	1321.9	1319.8	1326.2	1326.7	1334.7	1326.2	1332.1
20°	1402.2	1415.5	1407.5	1410.2	1405.4	1408.1	1410.7	1422.5	1409.1	1413.4
22.5°	1514.6	1530.6	1522.0	1532.2	1529.0	1526.9	1526.3	1547.2	1526.3	1527.9
25°	1678.3	1697.6	1682.6	1696.5	1696.5	1703.5	1711.5	1738.3	1703.5	1693.3
27.5°	1920.2	1939.5	1910.1	1918.6	1915.9	1933.1	1924.5	1990.9	1953.4	1936.8
30°	2211.4	2245.6	2190.0	2187.8	2185.1	2212.4	2224.7	2268.6	2230.6	2214.0
32.5°	2526.0	2561.9	2495.5	2476.3	2466.1	2482.7	2472.5	2507.8	2481.6	2455.9
35°	2858.9	2894.2	2831.1	2793.6	2753.0	2718.2	2681.8	2690.9	2666.3	2627.2
37.5°	3173.6	3238.4	3171.5	3131.3	3056.4	2988.4	2886.8	2844.5	2821.5	2785.6
40°	3494.2	3531.1	3480.3	3446.0	3364.7	3258.2	3095.5	3006.1	2975.1	2940.3
42.5°	3730.2	3765.5	3738.2	3714.7	3651.0	3527.4	3317.0	3205.2	3160.2	3121.2
45°	3917.5	3943.7	3926.6	3935.2	3907.9	3788.0	3546.6	3418.7	3372.2	3324.5
47.5°	3993.0	4020.8	4048.1	4098.9	4145.5	4057.2	3793.3	3649.9	3600.7	3552.0
50°	3984.4	4012.8	4092.0	4200.1	4344.6	4315.1	4053.4	3896.1	3850.6	3795.0
52.5°	3915.9	3948.0	4049.7	4229.5	4459.6	4508.3	4318.4	4150.3	4107.5	4041.1
55°	3736.1	3755.3	3907.9	4162.6	4486.9	4643.2	4577.9	4421.1	4378.3	4285.7
57.5°	3402.7	3430.5	3652.6	3982.3	4418.4	4734.7	4805.9	4705.8	4664.6	4531.4
60°	2967.6	3012.0	3266.2	3679.4	4244.0	4734.2	5013.0	4985.7	4951.5	4773.3
62.5°	2475.2	2526.6	2771.2	3251.2	3938.9	4599.9	5142.5	5220.1	5202.5	4996.4
65°	1901.0	1936.3	2179.8	2697.3	3464.2	4311.4	5157.5	5380.2	5383.4	5166.1
67.5°	1265.7	1367.4	1578.8	2024.0	2828.4	3839.9	5025.9	5406.4	5437.4	5224.4
70°	617.6	751.4	958.5	1315.5	2024.0	3116.9	4681.7	5191.2	5260.3	5054.2
72.5°	256.4	299.7	412.6	649.2	1161.9	2103.3	3990.3	4607.9	4735.8	4478.4
75°	172.9	187.3	236.0	332.9	529.3	1037.2	2877.7	3435.8	3641.9	3382.3
77.5°	133.3	142.4	171.8	232.8	314.7	392.3	1540.2	2070.6	2177.1	2015.5
80°	104.9	111.9	128.4	169.7	223.2	209.8	525.0	938.2	999.7	838.6
82.5°	91.0	93.7	92.1	115.1	148.2	122.6	172.3	346.3	382.1	277.2
85°	65.8	73.3	76.5	71.2	78.7	62.1	70.6	122.6	134.9	120.4
87.5°	26.8	39.6	48.7	46.0	28.9	17.7	21.9	35.9	41.2	45.0
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°
1129.8	0°	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8	1129.8
1130.3	2.5°	1130.8	1134.6	1137.3	1140.5	1142.6	1145.8	1152.2	1156.0	1156.5	1159.2
1138.9	5°	1141.0	1146.4	1152.2	1160.8	1170.4	1178.5	1190.8	1199.3	1202.5	1205.2
1159.7	7.5°	1162.9	1170.4	1181.1	1196.1	1210.0	1220.7	1235.7	1245.9	1256.1	1259.8
1192.9	10°	1195.6	1206.3	1221.8	1242.1	1257.1	1271.0	1286.6	1295.1	1305.3	1309.6
1232.5	12.5°	1236.3	1247.5	1267.8	1296.2	1310.1	1319.8	1325.1	1323.0	1325.1	1328.8
1280.1	15°	1282.8	1295.1	1318.1	1348.7	1358.3	1349.7	1337.9	1327.2	1325.6	1326.7
1337.9	17.5°	1337.9	1347.0	1373.8	1399.5	1392.5	1357.2	1331.5	1314.4	1305.8	1303.2
1411.8	20°	1415.0	1415.0	1437.0	1453.0	1406.4	1346.5	1306.4	1278.5	1260.9	1253.4
1512.4	22.5°	1508.7	1500.1	1514.0	1502.8	1403.8	1316.5	1260.9	1212.7	1186.0	1175.3
1653.2	25°	1627.5	1617.3	1613.6	1544.0	1384.5	1268.9	1178.5	1120.1	1096.6	1090.7
1856.0	27.5°	1806.8	1781.1	1732.4	1566.5	1349.2	1194.0	1082.1	1028.1	1014.7	1015.2
2116.6	30°	2045.5	1994.1	1874.7	1570.2	1291.4	1088.0	983.7	945.1	938.7	941.4
2335.5	32.5°	2266.5	2217.8	2020.3	1553.1	1202.5	984.2	895.4	869.7	860.0	863.2
2502.5	35°	2439.9	2426.5	2155.2	1529.0	1093.4	886.8	816.1	794.2	775.5	771.2
2659.8	37.5°	2603.6	2598.3	2256.3	1495.3	985.3	817.8	752.5	723.6	696.3	681.3
2833.8	40°	2783.5	2778.1	2322.7	1443.4	889.5	757.8	695.2	657.2	623.5	596.2
3030.7	42.5°	2985.8	2954.2	2354.3	1369.0	808.1	707.0	648.6	597.3	552.8	527.7
3253.4	45°	3206.8	3135.6	2353.7	1274.3	739.6	660.4	598.9	526.1	484.9	461.3
3481.9	47.5°	3441.2	3309.0	2324.8	1169.4	673.3	609.0	521.8	466.1	438.8	424.4
3730.2	50°	3683.1	3471.2	2275.6	1049.0	605.3	550.7	473.6	435.6	414.8	401.4
3976.4	52.5°	3910.5	3618.3	2216.2	912.5	536.2	494.0	452.2	422.8	400.8	385.9
4215.1	55°	4121.9	3745.2	2132.2	772.8	480.1	456.0	442.1	417.4	392.3	374.6
4457.5	57.5°	4309.8	3827.6	1987.1	641.7	439.9	429.7	431.4	408.3	379.4	364.5
4696.2	60°	4466.1	3888.1	1772.5	520.2	407.3	404.1	414.8	391.2	357.5	340.4
4898.0	62.5°	4559.7	3887.0	1509.2	426.0	379.4	380.5	392.8	369.8	335.6	319.5
5003.4	65°	4551.7	3791.7	1220.2	364.5	352.7	353.8	369.8	346.3	317.4	307.7
4950.4	67.5°	4390.6	3559.5	936.0	324.3	323.2	328.1	346.8	330.2	306.1	305.1
4634.6	70°	3954.4	3077.3	674.3	292.2	292.7	299.7	324.3	320.0	300.2	302.4
3896.6	72.5°	3170.9	2346.2	452.8	258.5	259.0	270.3	302.9	312.0	294.3	322.7
2764.7	75°	2111.8	1463.2	291.1	222.6	223.2	237.6	284.2	296.5	278.3	321.6
1438.6	77.5°	1014.7	657.7	210.9	187.3	187.3	200.7	245.6	265.4	237.1	249.9
462.4	80°	350.5	247.3	165.9	150.9	147.7	156.8	207.1	230.1	204.4	188.4
150.9	82.5°	138.1	128.4	133.3	117.2	106.5	112.4	161.1	190.0	150.4	135.9
85.1	85°	79.2	83.5	94.2	77.6	61.5	69.0	118.3	136.5	113.5	100.1
27.8	87.5°	21.4	29.4	43.3	40.1	27.8	29.4	56.2	75.5	65.3	50.3
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>
1129.8
1158.7
1204.7
1260.3
1311.7
1329.9
1330.5
1306.9
1251.8
1173.6
1091.8
1016.8
950.5
867.5
774.4
681.8
598.9
529.3
460.3
421.2
396.6
379.4
367.7
354.8
332.9
314.7
307.2
306.7
301.8
327.0
324.3
229.1
176.6
135.4
102.2
51.9
0.0

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