

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: P945980

Luminaire Tested: **GALN-SB1D-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10316 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

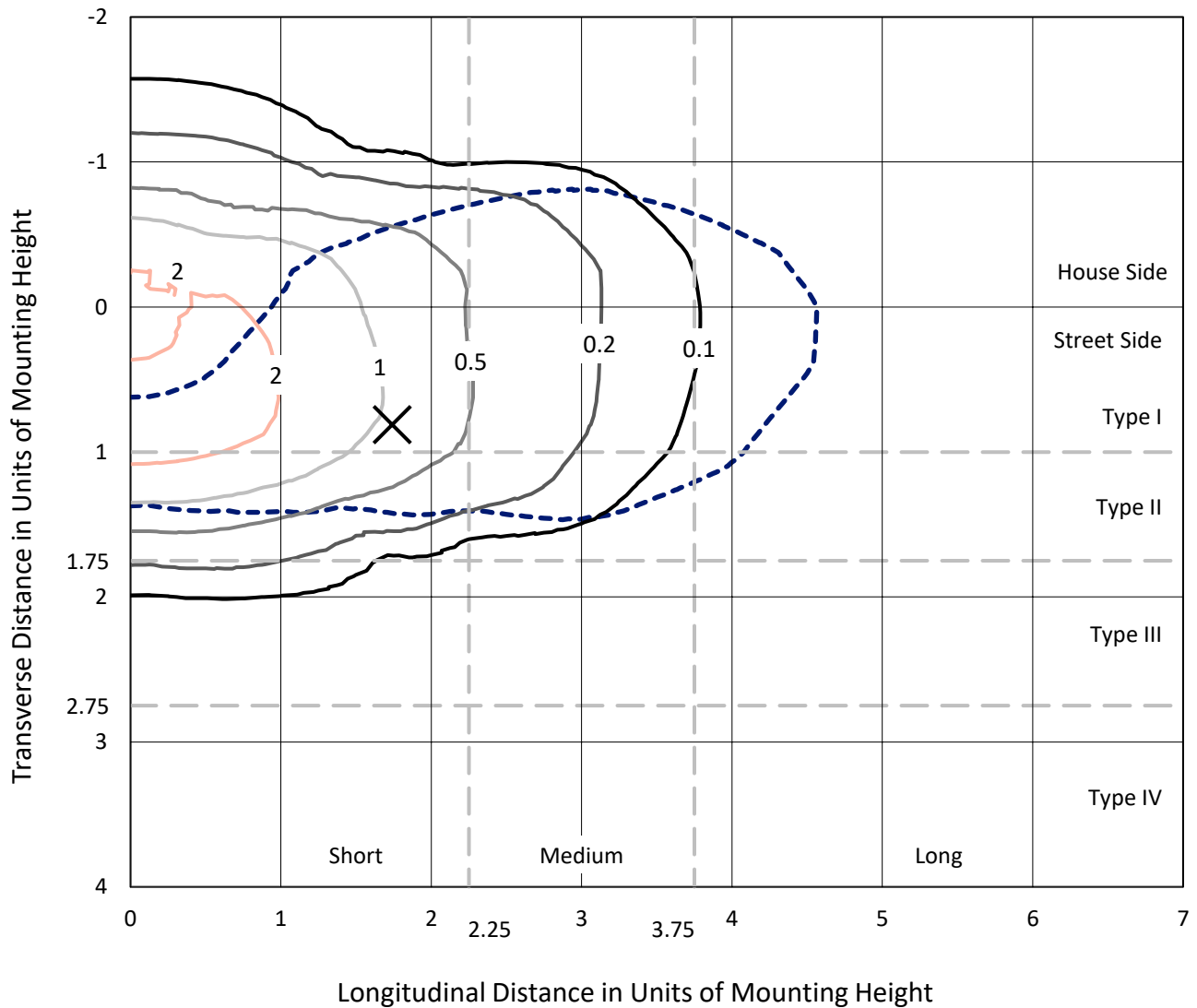
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

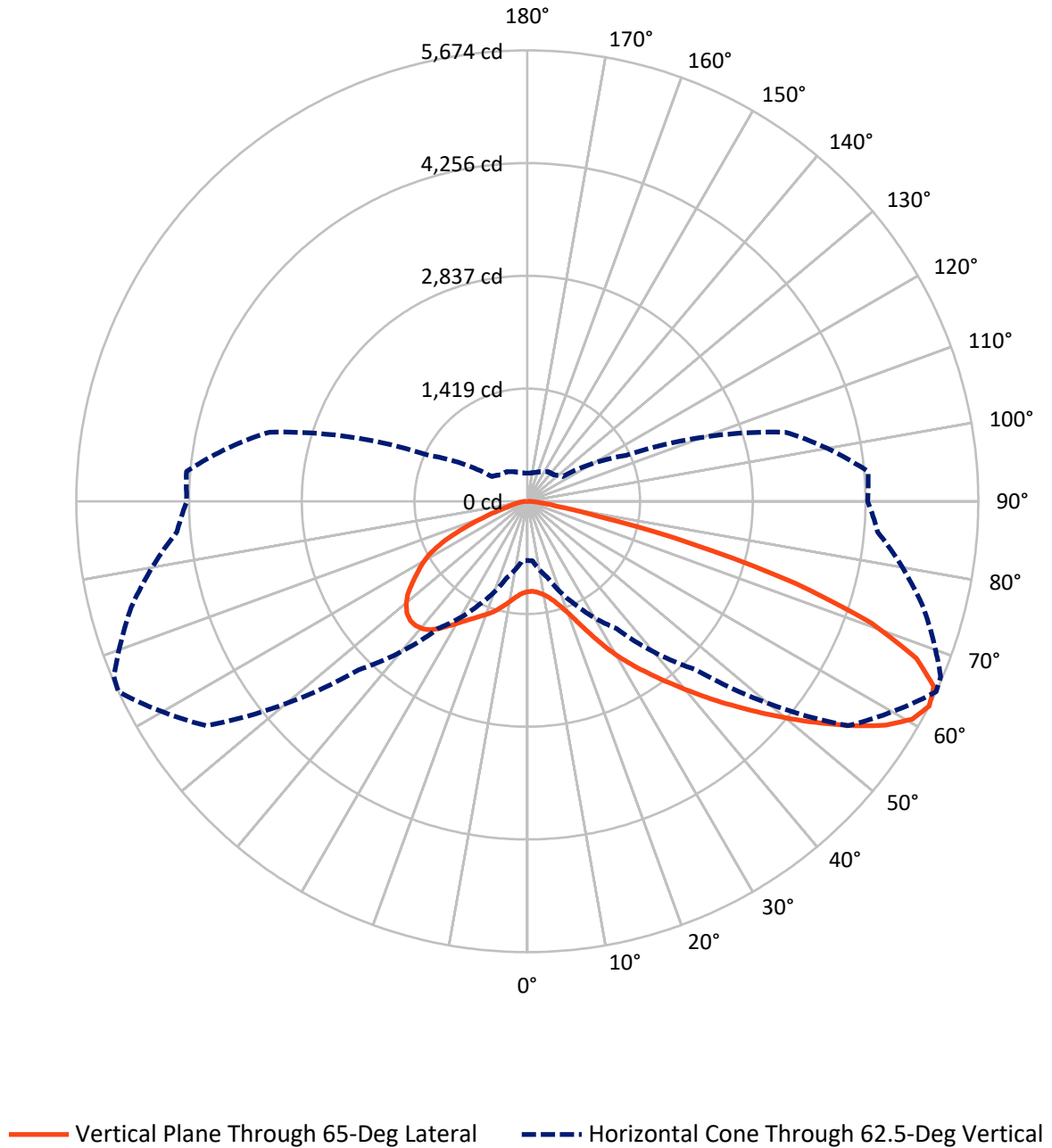
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3255.3	0.0	3255.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	7060.7	0.0	7060.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	10316.0	0.0	10316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.1
10°-20°	384.3	3.7
20°-30°	779.3	7.6
30°-40°	1348.5	13.1
40°-50°	2040.7	19.8
50°-60°	2392.6	23.2
60°-70°	2005.9	19.4
70°-80°	1107.4	10.7
80°-90°	143.9	1.4
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°	10316.0	100.0
0°-180°	10316.0	100.0



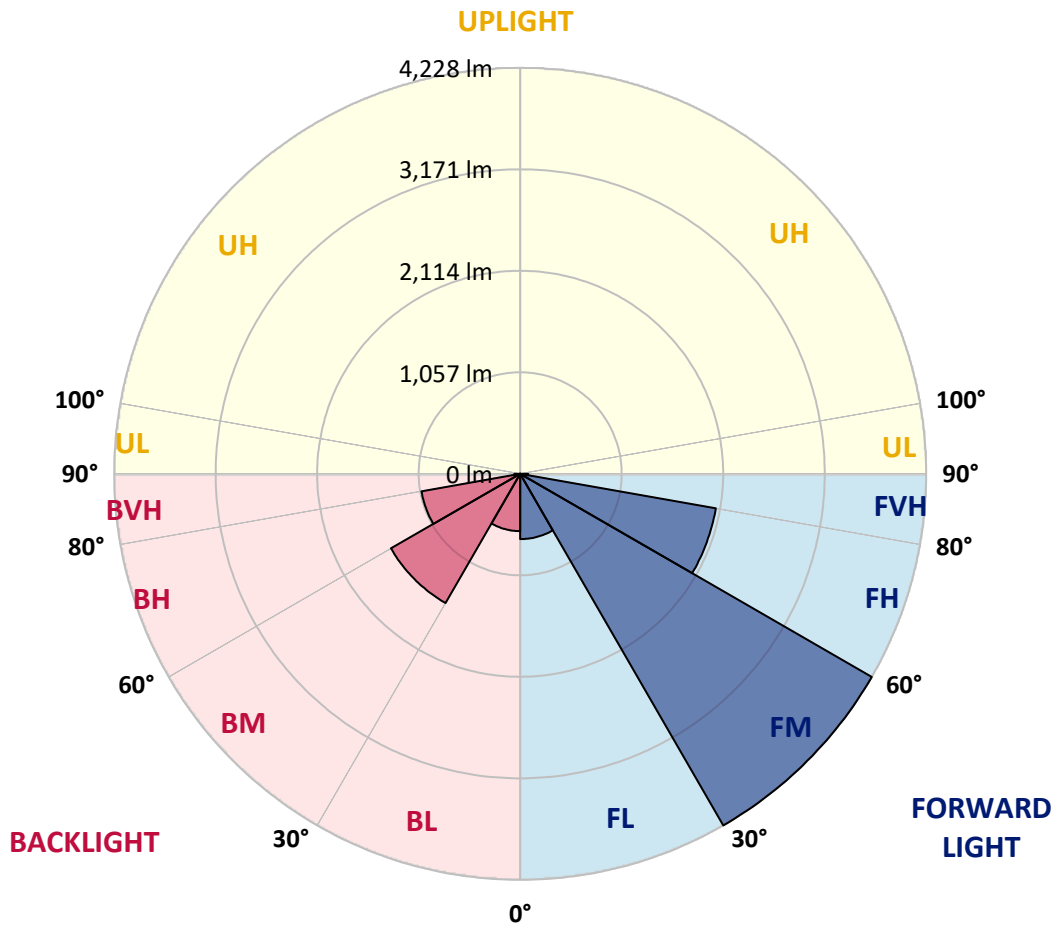
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.0	6.6			
FM (30°-60°)	4227.8	41.0			
FH (60°-80°)	2069.1	20.1			G2/5000
FVH (80°-90°)	83.8	0.8			G1/100
BL (0°-30°)	597.0	5.8	B2/1000		
BM (30°-60°)	1554.0	15.1	B2/2500		
BH (60°-80°)	1044.3	10.1	B3/2500		G3/2500
BVH (80°-90°)	60.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8
2.5°	1129.3	1126.1	1128.8	1128.8	1129.8	1129.3	1133.0	1134.1	1135.7	1138.9
5°	1118.0	1117.5	1122.3	1126.6	1130.9	1134.6	1139.5	1146.4	1147.5	1151.2
7.5°	1114.3	1111.1	1118.6	1123.9	1134.1	1143.2	1156.0	1167.8	1172.6	1174.2
10°	1143.2	1137.8	1144.8	1148.0	1156.6	1165.7	1180.7	1199.4	1204.7	1211.2
12.5°	1192.4	1186.6	1196.7	1201.5	1209.6	1217.6	1227.8	1246.0	1248.6	1260.4
15°	1259.9	1252.9	1259.3	1265.2	1278.6	1286.1	1296.3	1313.9	1313.9	1323.0
17.5°	1351.4	1342.3	1347.1	1349.3	1357.8	1369.1	1386.2	1401.7	1409.7	1406.5
20°	1487.9	1476.6	1476.6	1465.9	1462.7	1471.8	1494.3	1515.7	1524.3	1507.7
22.5°	1692.9	1676.8	1667.7	1631.3	1616.9	1617.9	1640.4	1666.6	1673.6	1644.2
25°	1953.5	1928.3	1916.0	1862.5	1829.9	1801.5	1819.2	1852.9	1862.5	1826.1
27.5°	2214.1	2215.8	2204.0	2139.8	2085.7	2033.8	2024.7	2060.0	2070.2	2029.0
30°	2579.7	2541.7	2519.2	2442.1	2365.1	2292.3	2254.8	2269.3	2272.0	2222.7
32.5°	2894.9	2885.3	2837.1	2769.7	2670.7	2556.7	2494.1	2471.0	2466.8	2396.7
35°	3254.1	3248.7	3197.9	3117.6	3010.5	2852.1	2739.2	2673.4	2668.0	2569.5
37.5°	3619.1	3619.1	3569.3	3481.5	3370.7	3172.7	3000.9	2896.5	2879.4	2751.0
40°	3910.2	3892.6	3901.7	3864.7	3737.9	3527.5	3291.5	3140.1	3117.0	2962.9
42.5°	4075.6	4069.7	4124.3	4165.5	4113.6	3945.5	3611.6	3403.9	3371.8	3196.3
45°	4112.5	4106.1	4203.5	4354.4	4427.2	4358.2	3959.5	3681.7	3642.6	3440.3
47.5°	4027.4	4014.6	4157.5	4395.7	4629.0	4750.5	4336.2	3983.0	3926.3	3677.9
50°	3771.6	3759.3	3975.5	4291.8	4697.0	5017.0	4745.1	4302.5	4215.8	3932.7
52.5°	3215.5	3221.4	3560.2	3994.8	4607.6	5182.9	5097.3	4639.2	4534.8	4193.3
55°	2504.8	2517.6	2934.0	3412.5	4250.1	5157.8	5337.6	4986.0	4882.2	4438.5
57.5°	1793.5	1850.2	2240.4	2714.0	3563.4	4759.1	5390.1	5315.7	5215.1	4706.1
60°	1162.5	1172.6	1574.0	2051.4	2713.5	4050.4	5283.6	5565.6	5486.9	4979.0
62.5°	745.0	752.0	996.6	1434.9	1953.0	2996.6	4925.0	5674.3	5650.2	5159.4
65°	547.5	542.2	669.5	948.4	1315.5	1848.1	4228.7	5621.8	5669.4	5272.3
67.5°	457.1	449.6	512.2	656.7	969.3	1049.5	3128.8	5280.9	5455.4	5259.5
70°	416.4	410.0	448.0	487.6	756.2	702.7	1577.3	4591.0	4859.7	5113.4
72.5°	352.7	341.5	393.4	433.0	588.2	539.0	651.9	3526.5	3854.0	4645.1
75°	273.5	266.0	310.4	381.1	442.1	420.7	412.1	2141.4	2498.9	3592.3
77.5°	216.8	206.6	247.3	297.0	397.7	317.4	300.3	922.2	1276.5	2293.4
80°	163.2	154.1	187.9	235.0	305.6	239.2	194.3	376.3	481.2	1161.9
82.5°	116.1	108.1	131.1	172.3	205.5	214.6	119.4	210.9	237.1	448.0
85°	74.4	69.6	87.8	108.1	130.6	138.1	72.8	110.3	121.0	184.6
87.5°	40.7	33.2	47.1	50.3	60.5	55.1	34.8	40.1	43.4	66.9
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°
1136.8	0°	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8
1138.9	2.5°	1141.1	1142.7	1148.0	1149.6	1153.4	1158.2	1161.4	1164.6	1164.6	1167.8
1156.0	5°	1156.6	1160.3	1171.6	1177.5	1187.1	1196.7	1202.6	1209.6	1213.8	1216.0
1183.3	7.5°	1186.6	1192.4	1208.5	1218.7	1235.3	1248.6	1257.7	1267.4	1269.5	1275.4
1221.3	10°	1227.2	1234.2	1252.4	1271.7	1291.5	1308.0	1316.6	1323.6	1326.2	1327.3
1270.0	12.5°	1273.8	1284.0	1307.5	1331.1	1351.9	1366.4	1368.5	1366.9	1359.4	1353.0
1330.0	15°	1331.1	1340.2	1366.4	1392.1	1412.4	1415.1	1401.7	1393.1	1384.0	1382.4
1396.9	17.5°	1399.6	1404.4	1428.5	1453.6	1455.2	1446.1	1426.3	1418.3	1409.7	1403.8
1484.1	20°	1479.3	1477.7	1494.8	1505.5	1494.3	1466.5	1436.5	1423.1	1414.6	1407.6
1591.2	22.5°	1574.6	1562.3	1560.1	1557.5	1527.5	1469.1	1428.5	1411.3	1398.0	1388.3
1740.5	25°	1713.2	1666.1	1633.5	1615.3	1547.8	1454.7	1402.8	1364.8	1339.6	1323.0
1923.0	27.5°	1886.6	1807.4	1725.0	1680.5	1547.8	1425.3	1340.7	1279.1	1237.9	1220.8
2099.6	30°	2052.0	1969.0	1847.5	1759.2	1544.1	1377.1	1240.6	1155.0	1106.8	1089.7
2250.5	32.5°	2193.3	2102.8	1977.6	1845.4	1535.0	1298.9	1116.4	1021.7	975.1	954.8
2399.9	35°	2324.4	2228.1	2108.2	1940.1	1510.9	1184.4	980.0	907.7	855.8	823.1
2551.9	37.5°	2458.7	2344.2	2231.8	2025.8	1467.5	1050.6	875.1	813.5	752.5	708.6
2713.5	40°	2604.8	2467.8	2364.0	2076.6	1396.4	923.2	793.7	737.5	672.8	626.2
2899.7	42.5°	2775.6	2616.1	2511.2	2102.8	1298.9	832.8	740.7	685.6	624.6	586.6
3099.4	45°	2953.8	2779.3	2645.5	2102.3	1190.3	790.5	723.6	669.0	601.6	562.0
3304.4	47.5°	3140.6	2950.1	2761.7	2068.0	1096.1	796.4	714.0	633.1	558.8	520.2
3511.5	50°	3327.9	3136.8	2874.1	2003.8	1056.0	783.5	678.1	582.8	495.1	460.3
3705.8	52.5°	3513.6	3335.4	2970.9	1912.3	1015.3	735.9	632.1	517.5	468.8	444.8
3906.5	55°	3700.4	3531.8	3076.4	1779.0	913.6	680.2	555.0	492.9	448.0	426.0
4102.9	57.5°	3887.7	3758.8	3176.5	1645.8	785.7	611.7	512.7	463.0	427.1	408.4
4267.2	60°	4082.6	4018.3	3279.7	1523.2	659.4	524.0	481.7	438.9	402.5	381.6
4425.1	62.5°	4283.3	4304.1	3360.6	1365.3	543.2	470.4	453.9	410.0	374.6	354.8
4555.7	65°	4485.6	4579.8	3413.5	1146.4	440.5	419.6	423.9	378.4	342.5	325.4
4651.5	67.5°	4638.1	4778.3	3398.6	867.6	361.3	371.4	386.4	345.2	311.5	298.1
4636.0	70°	4655.2	4754.8	3250.8	594.1	302.4	324.3	344.7	312.6	277.8	268.1
4417.6	72.5°	4427.2	4433.7	2839.3	388.0	255.8	284.7	300.8	279.4	245.7	236.0
3864.7	75°	3829.4	3666.7	2084.6	255.8	214.1	244.6	259.6	244.6	211.9	214.1
2891.7	77.5°	2901.4	2596.8	1265.8	182.0	178.8	205.5	225.9	215.2	187.3	210.3
1454.2	80°	1494.8	1404.9	564.6	135.9	141.3	164.3	185.7	171.8	148.3	141.3
324.9	82.5°	342.5	398.2	222.6	97.4	102.2	118.3	141.8	129.0	106.5	89.9
135.4	85°	119.9	131.1	98.5	61.0	59.9	73.9	96.3	86.2	72.3	57.8
57.3	87.5°	38.0	49.8	36.9	24.6	25.7	33.2	44.4	40.7	33.7	21.9
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>
1136.8
1167.8
1217.1
1273.3
1324.6
1353.0
1382.4
1404.4
1408.1
1391.5
1329.5
1229.4
1099.8
965.0
833.9
720.4
635.3
594.1
568.4
525.6
462.4
444.8
423.9
405.2
380.0
354.3
324.9
298.6
268.7
235.5
206.6
185.2
129.0
88.8
61.0
23.0
0.0

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