

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: P939255

Luminaire Tested: **GALN-SB1D-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10086 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

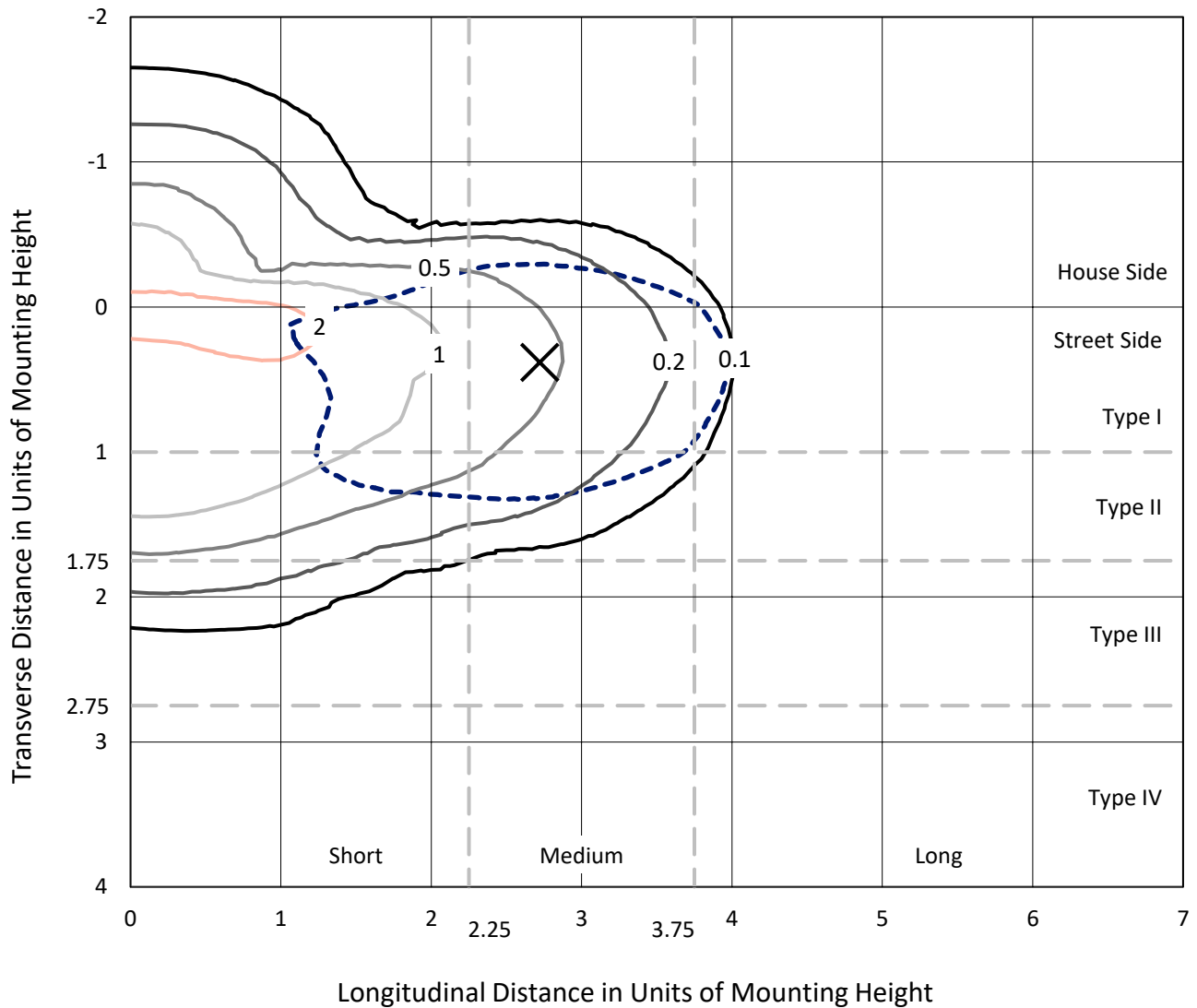
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939255
 CATALOG NUMBER: GALN-SB1D-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

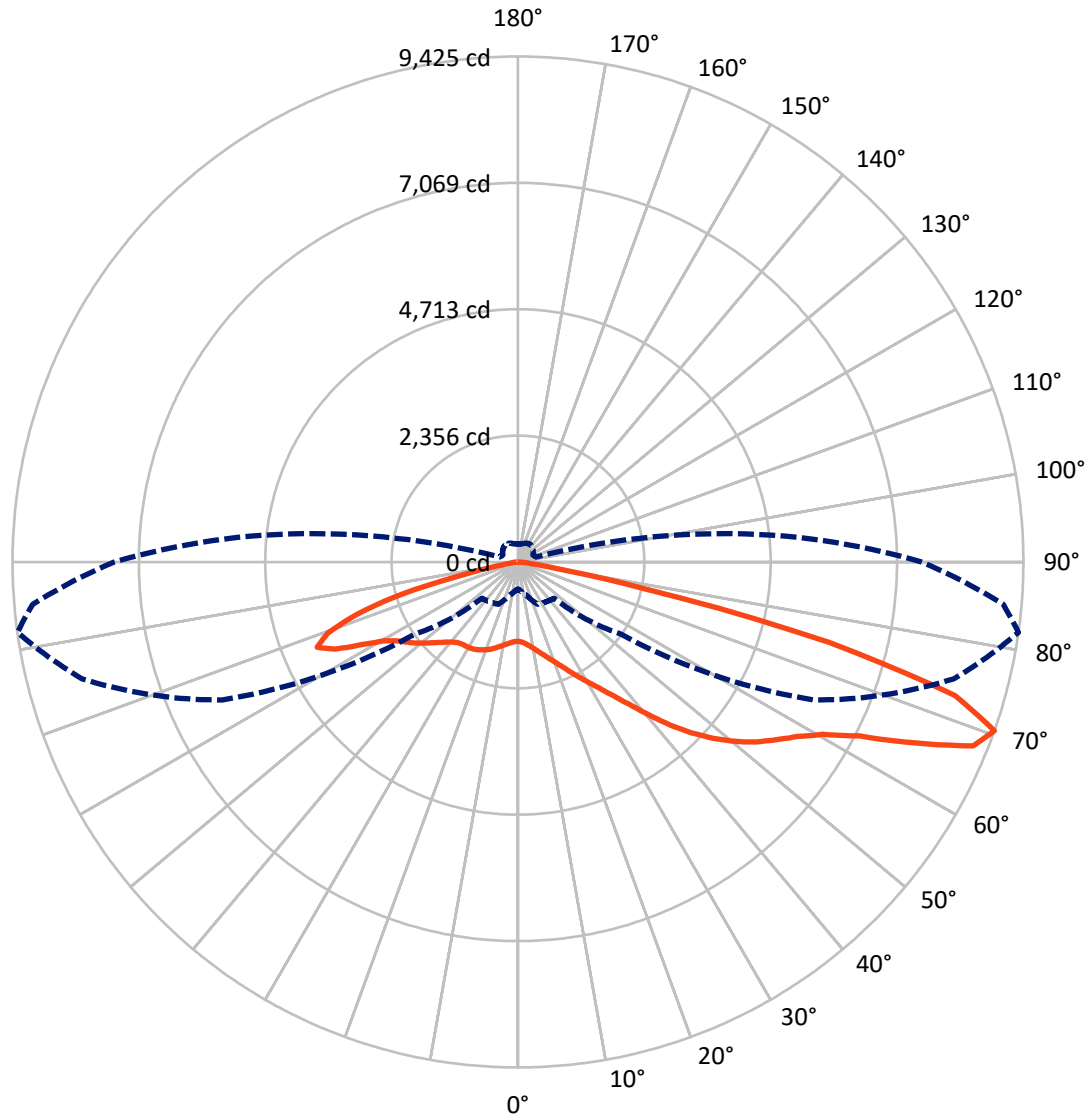
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P939255
CATALOG NUMBER: GALN-SB1D-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GALN-SB1D-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2486.4	0.0	2486.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7599.6	0.0	7599.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	10086.0	0.0	10086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.4
10°-20°	401.1	4.0
20°-30°	671.1	6.7
30°-40°	1048.4	10.4
40°-50°	1669.6	16.6
50°-60°	2323.5	23.0
60°-70°	2430.5	24.1
70°-80°	1270.3	12.6
80°-90°	131.9	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°	10086.0	100.0
0°-180°	10086.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939255

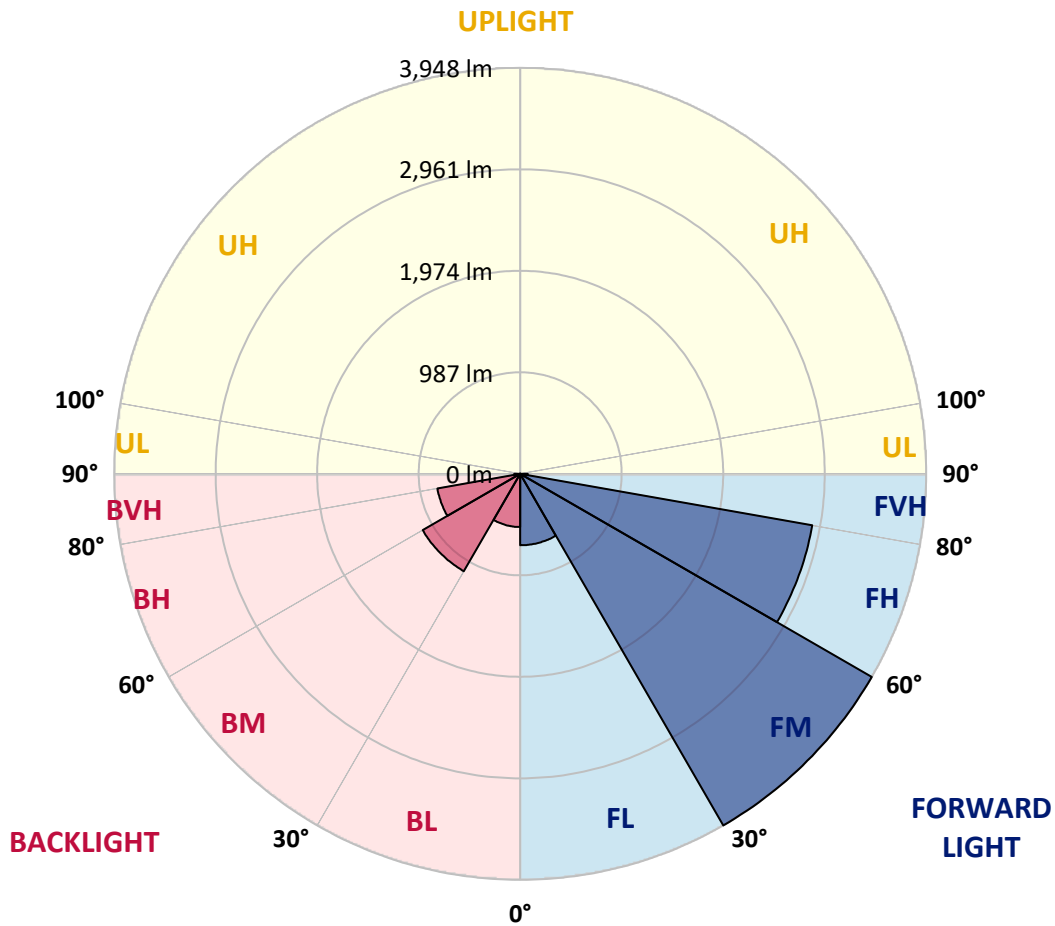
CATALOG NUMBER: GALN-SB1D-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.5	6.9			
FM (30°-60°)	3947.6	39.1			
FH (60°-80°)	2883.6	28.6			G2/5000
FVH (80°-90°)	73.8	0.7			G1/100
BL (0°-30°)	517.3	5.1	B2/1000		
BM (30°-60°)	1093.9	10.8	B2/2500		
BH (60°-80°)	817.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	58.1	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 II Medium



REPORT NUMBER: P939255

CATALOG NUMBER: GALN-SB1D-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7
2.5°	1514.1	1522.6	1519.9	1517.3	1517.3	1513.5	1513.0	1507.6	1503.4	1496.4
5°	1533.3	1542.4	1541.4	1543.5	1550.4	1552.1	1553.7	1550.4	1541.9	1533.3
7.5°	1516.2	1526.4	1529.6	1542.4	1563.8	1583.1	1597.5	1603.4	1595.4	1583.1
10°	1458.4	1469.6	1480.9	1511.4	1549.4	1594.9	1633.4	1656.4	1654.8	1643.0
12.5°	1341.2	1353.0	1377.0	1436.5	1506.0	1586.3	1658.0	1706.2	1722.8	1714.2
15°	1247.5	1257.7	1275.9	1336.9	1427.4	1549.4	1667.1	1760.8	1803.1	1798.2
17.5°	1244.9	1249.1	1260.4	1289.3	1358.9	1491.6	1657.5	1814.3	1895.1	1894.6
20°	1292.0	1293.6	1300.0	1305.9	1345.5	1447.7	1632.9	1858.7	1998.4	1998.4
22.5°	1357.2	1356.2	1362.6	1357.2	1376.5	1443.9	1617.3	1897.8	2113.5	2122.0
25°	1455.2	1449.8	1448.2	1435.9	1439.7	1478.7	1634.5	1942.2	2249.9	2267.6
27.5°	1585.8	1577.2	1571.3	1543.0	1533.3	1550.4	1686.9	1995.7	2401.9	2432.4
30°	1756.0	1740.4	1731.9	1682.6	1647.9	1650.5	1766.1	2066.9	2560.9	2610.1
32.5°	1988.2	1964.2	1941.1	1860.3	1796.6	1775.8	1868.4	2165.4	2733.2	2811.9
35°	2248.3	2229.1	2204.5	2079.8	1981.8	1933.6	2006.4	2302.9	2935.0	3059.7
37.5°	2498.8	2482.2	2494.0	2325.9	2199.6	2129.5	2187.3	2487.6	3183.9	3368.0
40°	2757.8	2745.0	2746.6	2586.0	2438.9	2360.2	2406.8	2719.3	3469.1	3734.6
42.5°	3039.4	3029.7	2997.6	2855.2	2689.9	2616.6	2659.4	2986.9	3775.2	4152.0
45°	3354.6	3348.7	3318.7	3155.5	2966.0	2883.6	2941.4	3282.3	4083.0	4544.8
47.5°	3627.0	3631.8	3628.1	3490.5	3294.1	3173.1	3242.2	3590.6	4369.3	4914.1
50°	3758.1	3783.3	3820.2	3777.4	3655.4	3532.3	3545.6	3888.2	4642.2	5260.4
52.5°	3689.6	3737.2	3837.9	3906.4	3953.5	3927.8	3891.9	4183.6	4899.1	5572.9
55°	3434.3	3501.2	3668.2	3833.6	4073.9	4260.7	4307.8	4511.1	5149.6	5848.0
57.5°	2969.2	3077.9	3227.7	3562.2	3966.8	4421.8	4792.6	4965.5	5415.1	6141.9
60°	2171.8	2317.4	2503.6	3001.4	3592.2	4335.6	5205.3	5663.4	5792.4	6522.4
62.5°	1389.9	1479.8	1651.1	2119.9	2799.1	3894.1	5331.6	6535.8	6431.9	7146.4
65°	951.6	1009.4	1166.2	1429.5	1809.5	2898.6	4993.3	7189.8	7447.7	8135.4
67.5°	691.5	735.4	869.2	1099.8	1179.0	1715.3	3874.8	7159.8	8435.2	9154.4
70°	504.2	535.2	647.6	869.2	907.1	954.2	2347.3	6086.2	8413.7	9425.3
72.5°	373.6	395.0	470.4	674.3	734.3	644.4	1161.9	4423.4	7229.9	8525.1
75°	270.3	286.3	342.0	515.9	587.6	490.8	579.6	2585.0	5043.1	5996.8
77.5°	206.6	218.9	255.3	377.8	470.4	368.2	359.6	1189.2	2391.2	2403.0
80°	165.9	173.9	193.7	266.0	360.7	275.6	234.4	480.1	755.7	639.6
82.5°	122.0	135.4	163.8	186.8	258.0	190.0	142.9	242.4	287.4	247.3
85°	69.6	78.7	99.0	133.8	164.8	116.1	81.9	107.6	133.8	109.7
87.5°	24.6	32.1	34.8	52.4	71.7	48.2	31.6	31.0	43.9	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939255
 CATALOG NUMBER: GALN-SB1D-735-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1478.7	0°	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7	1478.7
1494.8	2.5°	1489.4	1486.8	1476.1	1461.6	1446.6	1432.2	1427.4	1417.2	1410.2	1406.5
1529.6	5°	1519.4	1510.8	1485.7	1453.6	1419.9	1383.5	1357.8	1334.2	1317.1	1301.1
1577.2	7.5°	1562.2	1547.2	1503.9	1447.7	1387.8	1327.3	1282.3	1248.1	1225.1	1210.1
1632.9	10°	1612.0	1589.0	1522.6	1438.6	1346.0	1259.3	1206.3	1176.9	1162.4	1154.4
1696.6	12.5°	1669.3	1636.6	1541.9	1417.7	1282.3	1183.3	1146.9	1138.4	1138.9	1139.4
1776.8	15°	1739.9	1694.4	1557.4	1372.2	1199.4	1125.0	1118.5	1132.5	1146.9	1153.9
1867.8	17.5°	1819.7	1755.4	1560.1	1297.3	1118.0	1087.5	1107.8	1137.8	1159.8	1169.4
1969.5	20°	1905.3	1817.5	1540.8	1191.3	1051.1	1057.0	1093.4	1131.9	1156.0	1168.3
2085.6	22.5°	2003.2	1883.9	1494.8	1080.0	996.5	1023.8	1066.6	1104.1	1129.3	1141.6
2222.1	25°	2115.1	1958.3	1422.5	986.4	949.4	986.4	1029.2	1060.2	1080.6	1091.8
2374.6	27.5°	2239.2	2035.9	1326.2	912.0	908.2	947.8	983.1	1007.2	1017.9	1026.5
2536.8	30°	2363.9	2106.5	1209.5	855.8	872.4	909.8	935.0	945.7	948.9	950.5
2717.7	32.5°	2498.8	2167.5	1087.0	809.2	838.1	872.9	887.9	892.7	877.7	867.5
2937.1	35°	2662.0	2232.8	967.1	772.3	804.4	834.4	839.2	834.9	817.2	796.4
3212.2	37.5°	2863.8	2314.2	871.3	746.1	772.8	792.6	786.7	785.7	787.3	762.6
3543.0	40°	3111.1	2420.1	801.2	725.7	747.1	751.4	734.8	743.9	751.9	714.5
3905.8	42.5°	3385.6	2548.0	756.8	711.8	725.7	715.6	689.9	700.0	699.0	649.7
4270.3	45°	3665.5	2687.2	741.2	701.6	705.9	685.6	657.2	659.9	637.4	593.0
4619.8	47.5°	3943.8	2836.5	750.9	693.1	681.3	658.3	636.3	624.6	591.4	558.2
4954.8	50°	4216.8	2993.3	786.2	675.9	647.6	634.2	618.1	597.3	562.0	533.6
5271.6	52.5°	4469.9	3151.2	825.8	647.6	605.3	613.3	603.2	579.1	544.3	515.4
5571.3	55°	4709.7	3309.1	841.3	608.5	565.7	595.1	589.2	544.8	503.1	479.5
5885.0	57.5°	4970.9	3499.1	824.2	558.7	533.6	574.3	551.8	502.5	478.5	460.8
6293.3	60°	5332.6	3797.2	787.3	497.2	503.1	543.2	504.7	484.3	458.1	438.3
6905.6	62.5°	5933.7	4353.2	727.9	436.2	467.2	497.2	482.2	461.9	435.1	415.8
7952.4	65°	6822.1	5126.1	616.0	388.5	427.1	452.2	458.1	437.8	410.0	389.6
8869.7	67.5°	7571.4	5610.9	466.2	348.9	385.9	415.8	432.4	412.6	383.2	363.4
9084.3	70°	7530.1	5258.8	355.9	309.9	349.5	380.0	401.4	385.9	354.3	335.6
8251.6	72.5°	6688.3	4399.3	287.9	270.3	312.6	342.5	368.2	356.4	324.3	306.1
6045.0	75°	4913.6	3122.8	230.1	230.1	266.5	303.5	331.8	324.3	294.9	282.0
2537.9	77.5°	2071.2	1310.1	180.4	191.1	221.6	260.6	296.0	298.6	272.9	289.0
671.1	80°	550.7	361.3	137.5	150.4	173.9	215.1	257.4	256.4	228.5	213.5
249.4	82.5°	209.8	142.4	97.9	106.0	125.8	164.8	203.9	210.3	182.5	157.9
97.9	85°	80.8	61.0	60.5	63.7	73.3	109.2	154.1	159.5	137.5	116.7
27.3	87.5°	20.9	18.2	22.5	21.4	33.7	58.3	88.3	91.5	84.0	48.7
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>
1478.7
1410.8
1307.5
1213.3
1156.5
1140.5
1153.3
1171.5
1171.5
1144.8
1095.0
1029.7
954.2
870.8
797.4
764.3
715.6
649.2
594.6
558.2
531.4
515.9
477.4
459.2
437.3
415.8
390.7
363.9
337.2
306.1
278.3
262.2
198.6
157.9
120.4
69.6
0.0

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