

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: P946698

Luminaire Tested: **GALN-SB2B-735-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946698  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-735-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

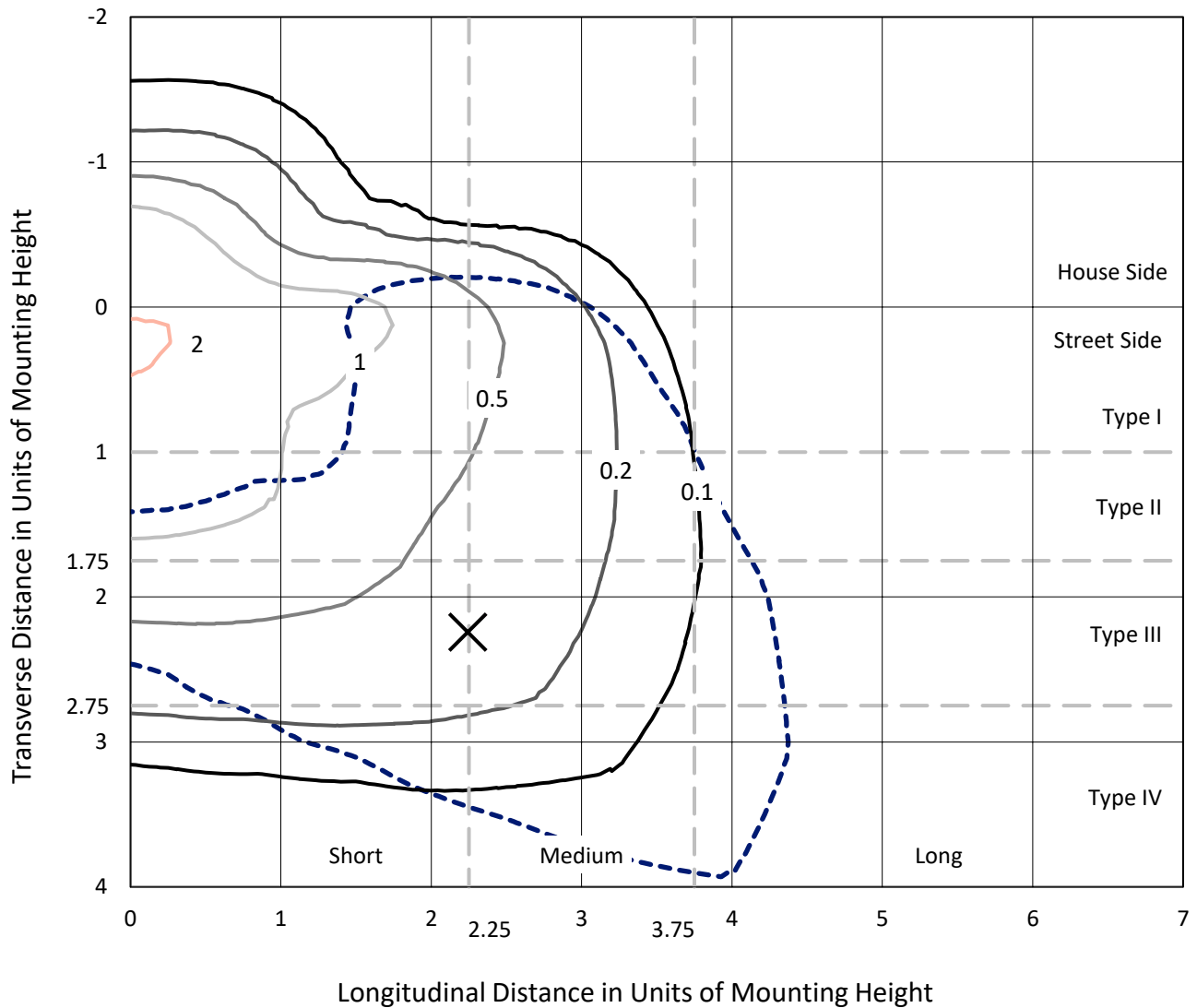
Lumens per Lamp: N/A  
Luminaire Lumens: 11239 lumens  
Efficiency: N/A  
Efficacy: 152.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

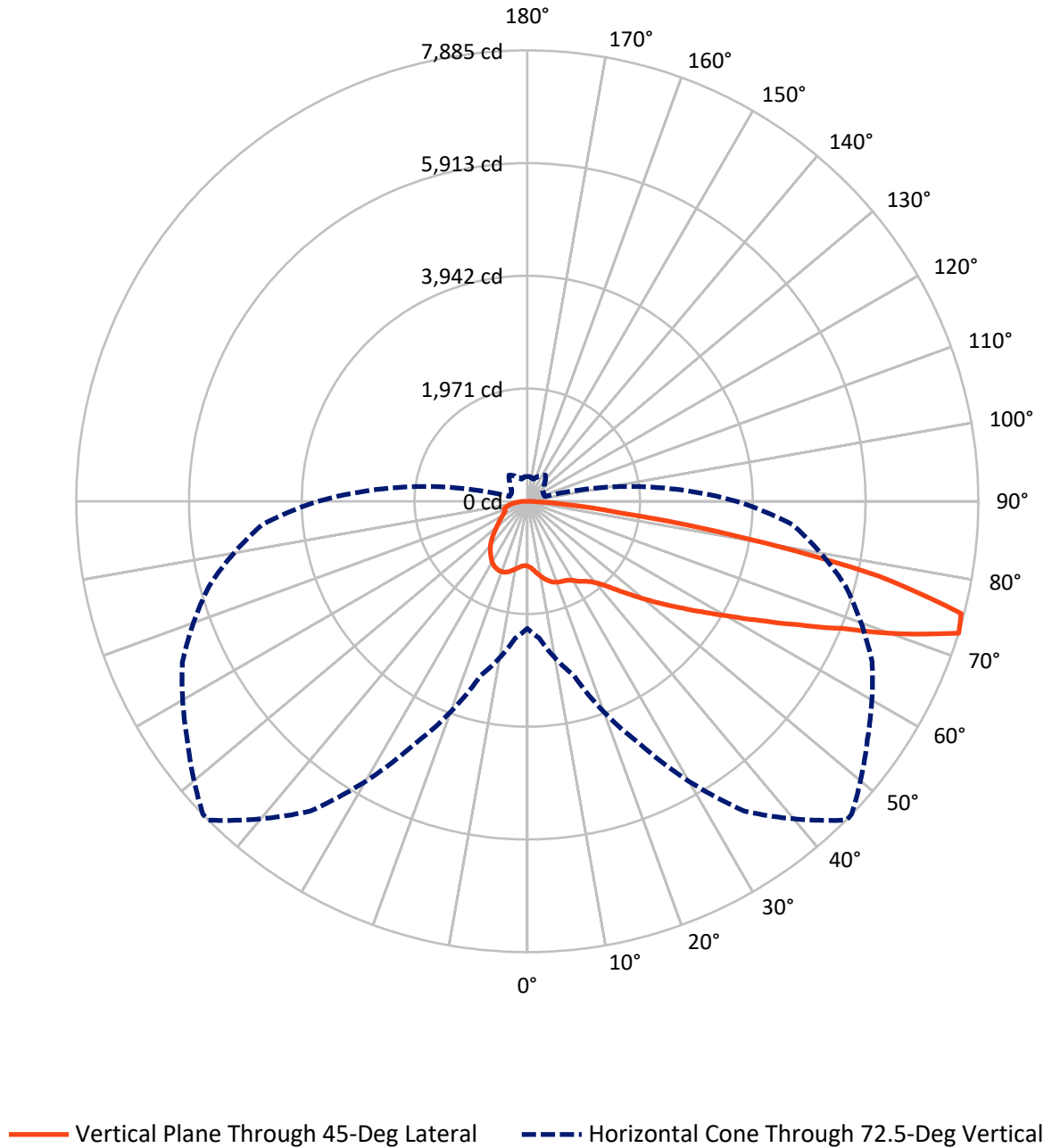
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2540.8	0.0	2540.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8698.2	0.0	8698.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	11239.0	0.0	11239.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	1.0
10°-20°	384.8	3.4
20°-30°	669.3	6.0
30°-40°	959.5	8.5
40°-50°	1351.0	12.0
50°-60°	2069.3	18.4
60°-70°	2997.7	26.7
70°-80°	2393.9	21.3
80°-90°	298.1	2.7
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°	11239.0	100.0
0°-180°	11239.0	100.0

**Coefficient of Utilization**



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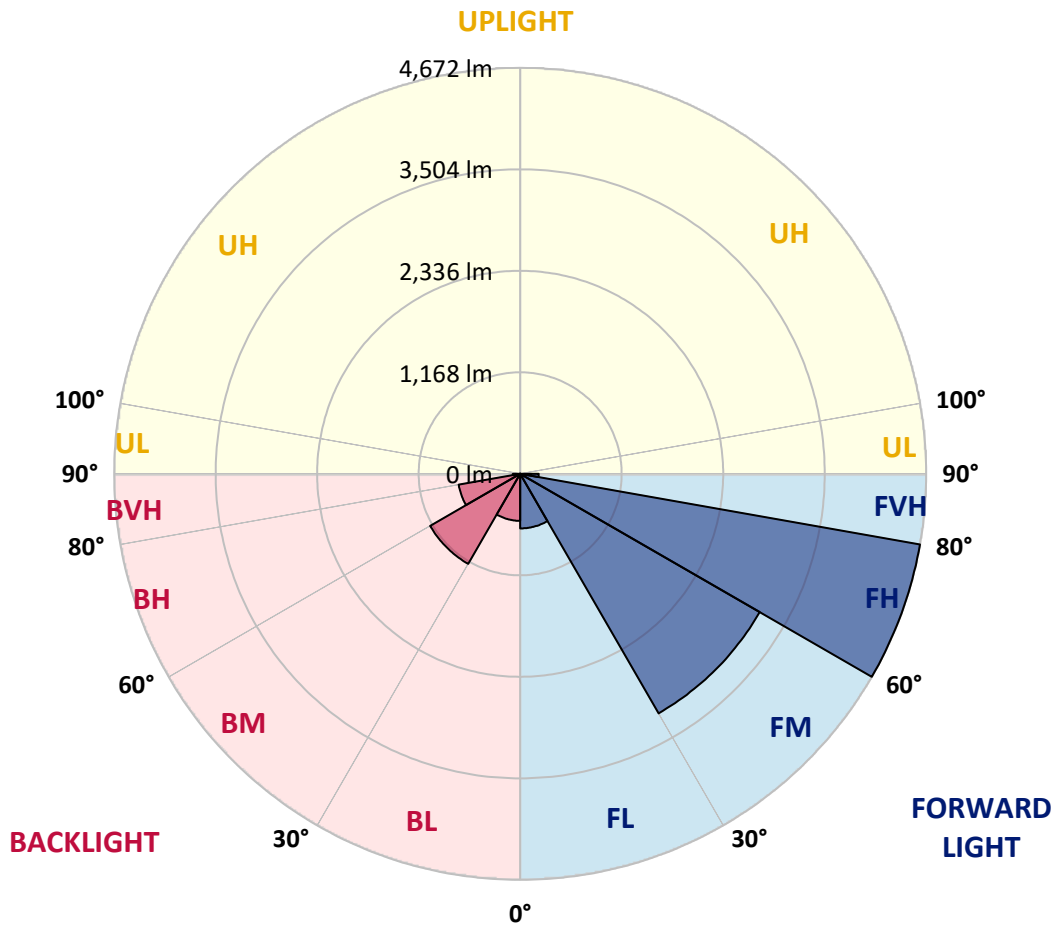
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.5	5.6			
FM (30°-60°)	3183.5	28.3			
FH (60°-80°)	4672.4	41.6			G2/5000
FVH (80°-90°)	213.9	1.9			G2/225
BL (0°-30°)	540.9	4.8	B2/1000		
BM (30°-60°)	1196.3	10.6	B2/2500		
BH (60°-80°)	719.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	84.3	0.7			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1178.2	1185.9	1178.8	1172.3	1169.3	1161.6	1161.0	1156.3	1153.3	1145.0
5°	1260.5	1270.6	1258.7	1245.7	1233.9	1214.9	1212.5	1198.9	1183.5	1165.8
7.5°	1353.5	1362.3	1348.7	1329.2	1308.5	1277.1	1276.5	1251.6	1227.3	1197.1
10°	1434.6	1446.4	1428.1	1401.4	1375.4	1339.8	1335.7	1307.3	1276.5	1237.4
12.5°	1506.2	1514.5	1496.7	1464.2	1434.0	1398.4	1393.1	1361.7	1327.4	1283.0
15°	1563.0	1573.7	1550.0	1515.1	1483.1	1448.2	1443.4	1415.0	1380.7	1333.9
17.5°	1600.3	1609.2	1584.9	1545.9	1515.1	1486.1	1482.5	1458.8	1428.6	1381.3
20°	1614.5	1624.0	1598.6	1558.9	1530.5	1508.0	1506.2	1489.0	1468.3	1425.1
22.5°	1628.8	1637.6	1604.5	1563.0	1538.2	1524.0	1523.4	1512.1	1503.8	1468.3
25°	1686.2	1688.6	1644.2	1584.4	1548.8	1536.4	1535.8	1535.2	1538.8	1510.9
27.5°	1735.9	1735.3	1697.4	1641.2	1586.1	1560.1	1559.5	1565.4	1576.7	1553.6
30°	1808.7	1802.2	1757.2	1698.6	1648.3	1608.0	1604.5	1599.2	1608.0	1589.7
32.5°	1963.3	1942.6	1869.7	1765.5	1699.8	1669.0	1664.3	1631.1	1634.7	1623.4
35°	2184.7	2157.5	2060.4	1892.2	1763.7	1719.9	1717.6	1675.5	1668.4	1658.4
37.5°	2448.2	2414.4	2301.3	2075.8	1873.9	1779.1	1775.6	1737.7	1708.7	1698.0
40°	2712.8	2670.2	2576.6	2299.6	2036.1	1878.0	1866.8	1809.3	1776.2	1758.4
42.5°	2969.8	2934.3	2854.3	2550.6	2236.2	2022.5	1997.6	1899.3	1874.5	1857.9
45°	3197.1	3165.2	3106.5	2818.8	2470.7	2219.0	2194.8	2034.3	2026.6	2026.6
47.5°	3381.9	3374.7	3312.6	3092.3	2747.2	2442.8	2400.8	2222.0	2242.7	2274.7
50°	3586.7	3567.2	3500.9	3361.7	3072.2	2699.2	2664.9	2452.3	2529.9	2617.5
52.5°	3775.0	3785.6	3711.6	3642.4	3439.3	2985.2	2924.8	2724.1	2891.6	3036.7
55°	3968.6	3969.2	3948.5	3939.0	3824.1	3301.3	3235.0	3050.9	3317.3	3497.3
57.5°	4150.3	4151.5	4182.3	4265.8	4270.5	3666.0	3590.8	3452.3	3790.4	3973.9
60°	4312.6	4320.9	4404.9	4600.3	4663.1	4084.0	4013.0	3926.5	4279.4	4464.1
62.5°	4367.0	4397.2	4584.3	4862.0	5050.9	4596.8	4526.9	4475.4	4793.3	4965.0
65°	4274.7	4343.9	4705.7	5078.1	5449.9	5206.0	5136.7	5080.5	5327.4	5489.0
67.5°	4047.9	4137.3	4698.6	5304.9	5934.2	5939.0	5874.4	5742.4	5899.9	5962.1
70°	3450.5	3584.3	4284.7	5389.5	6490.2	6941.3	6879.2	6539.3	6471.2	6170.5
72.5°	2223.2	2403.2	3155.1	4692.7	6613.9	7884.5	7880.9	7258.7	6651.8	5765.5
75°	811.1	921.2	1465.9	2945.5	5551.8	7836.5	7859.6	7135.5	6072.2	4453.5
77.5°	295.4	323.3	478.4	1132.0	3414.4	6287.7	6335.6	5704.5	4322.0	2235.0
80°	155.1	170.5	245.1	439.3	1463.0	3734.1	3809.3	3390.1	2031.4	673.2
82.5°	85.8	93.0	137.4	238.6	659.0	1596.8	1641.8	1339.2	714.6	285.4
85°	46.2	49.1	64.5	130.3	322.1	553.6	566.0	400.2	284.8	167.6
87.5°	13.6	16.6	21.3	41.4	126.1	124.3	127.3	79.3	112.5	84.7
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°
1133.8	0°	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
1142.7	2.5°	1139.1	1137.3	1130.8	1127.9	1124.3	1123.7	1126.7	1127.3	1127.9	1128.5
1155.7	5°	1149.8	1143.9	1137.9	1134.4	1135.6	1136.2	1142.1	1146.2	1149.2	1151.6
1180.0	7.5°	1170.5	1165.8	1155.7	1155.1	1156.9	1162.2	1169.9	1179.4	1184.7	1188.9
1211.4	10°	1201.3	1192.4	1180.6	1182.3	1185.9	1193.6	1209.6	1217.3	1226.2	1233.9
1249.8	12.5°	1232.7	1225.0	1211.4	1212.5	1218.5	1232.1	1247.5	1256.9	1262.9	1268.8
1291.3	15°	1273.5	1259.9	1245.1	1245.1	1255.8	1270.6	1277.7	1285.4	1288.9	1295.4
1335.7	17.5°	1315.6	1297.8	1278.3	1277.1	1290.1	1297.2	1301.3	1302.5	1303.7	1310.8
1378.9	20°	1357.6	1338.1	1310.2	1307.9	1310.8	1309.6	1309.0	1307.9	1309.6	1318.5
1423.3	22.5°	1399.0	1376.5	1338.1	1327.4	1319.1	1307.9	1307.3	1306.7	1307.9	1316.7
1471.3	25°	1447.6	1420.4	1368.8	1336.9	1309.0	1293.7	1295.4	1296.0	1297.2	1304.3
1521.0	27.5°	1500.3	1470.1	1397.3	1333.9	1283.6	1272.9	1270.0	1271.7	1275.9	1287.1
1570.7	30°	1553.0	1517.5	1423.3	1322.1	1251.6	1236.8	1227.3	1231.5	1244.5	1255.8
1614.0	32.5°	1600.9	1565.4	1444.0	1296.0	1210.8	1187.7	1175.2	1180.6	1193.6	1197.7
1661.9	35°	1657.2	1616.9	1452.9	1254.6	1166.4	1130.8	1114.3	1106.6	1113.1	1108.9
1718.2	37.5°	1719.9	1677.9	1451.7	1200.1	1114.3	1073.4	1050.3	1021.3	1007.7	993.5
1801.0	40°	1812.9	1752.5	1437.5	1134.4	1049.7	1012.4	971.0	921.8	891.1	863.2
1934.9	42.5°	1939.6	1856.1	1411.5	1062.2	976.9	942.0	885.7	828.3	779.7	733.6
2137.9	45°	2128.5	1991.7	1378.9	985.2	898.2	863.8	802.8	738.3	683.2	624.0
2426.3	47.5°	2400.8	2174.0	1348.1	897.6	815.3	783.9	728.8	669.0	603.9	546.5
2843.1	50°	2775.0	2435.7	1319.7	812.3	733.6	709.9	666.1	605.1	539.4	493.2
3331.5	52.5°	3251.0	2791.6	1307.9	730.0	657.2	648.3	613.4	556.5	494.4	455.3
3901.1	55°	3797.5	3217.3	1307.9	651.3	590.3	593.2	569.0	516.3	462.4	427.5
4488.4	57.5°	4355.2	3648.3	1284.2	578.4	533.4	545.9	530.5	484.3	435.8	399.6
5105.9	60°	4869.1	4009.4	1188.3	512.1	483.1	502.7	492.6	452.9	393.7	363.5
5622.2	62.5°	5264.0	4213.1	1003.5	459.4	441.7	464.2	458.8	411.5	386.0	373.6
6046.1	65°	5461.8	4179.9	767.3	412.7	406.7	441.7	430.4	428.7	408.5	394.3
6184.1	67.5°	5340.4	3894.6	556.5	378.3	386.6	421.0	464.2	471.3	434.0	406.2
5795.7	70°	4808.1	3378.3	414.4	345.8	361.2	421.5	529.3	493.2	425.7	393.1
4648.3	72.5°	3657.8	2519.2	321.5	311.4	328.0	424.5	558.3	483.1	402.0	434.6
2895.8	75°	2091.8	1383.1	258.1	269.4	286.6	396.7	543.5	457.1	383.7	399.0
1147.4	77.5°	797.5	531.7	213.1	227.9	230.3	346.4	519.8	455.3	365.3	356.4
344.0	80°	276.5	207.8	176.4	181.2	178.2	307.9	498.5	396.1	299.0	267.6
142.1	82.5°	113.1	103.6	139.7	133.8	126.7	239.2	402.6	323.9	244.5	216.1
68.7	85°	49.1	65.7	92.4	81.1	73.4	165.8	322.7	274.1	206.6	178.2
22.5	87.5°	10.1	24.9	39.1	36.7	37.9	110.7	229.1	194.8	146.2	109.5
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

180°  
1133.8  
1130.8  
1152.7  
1190.0  
1232.1  
1271.2  
1297.8  
1313.2  
1322.1  
1322.7  
1313.8  
1298.4  
1268.2  
1212.5  
1122.0  
1002.4  
865.0  
729.4  
616.9  
540.0  
490.2  
452.3  
423.9  
393.7  
358.8  
369.4  
389.6  
401.4  
387.8  
431.0  
399.0  
325.0  
258.7  
213.7  
177.6  
85.8  
0.0

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