

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: P946694

Luminaire Tested: **GALN-SB2B-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946694
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-SB2B-735-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11412 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

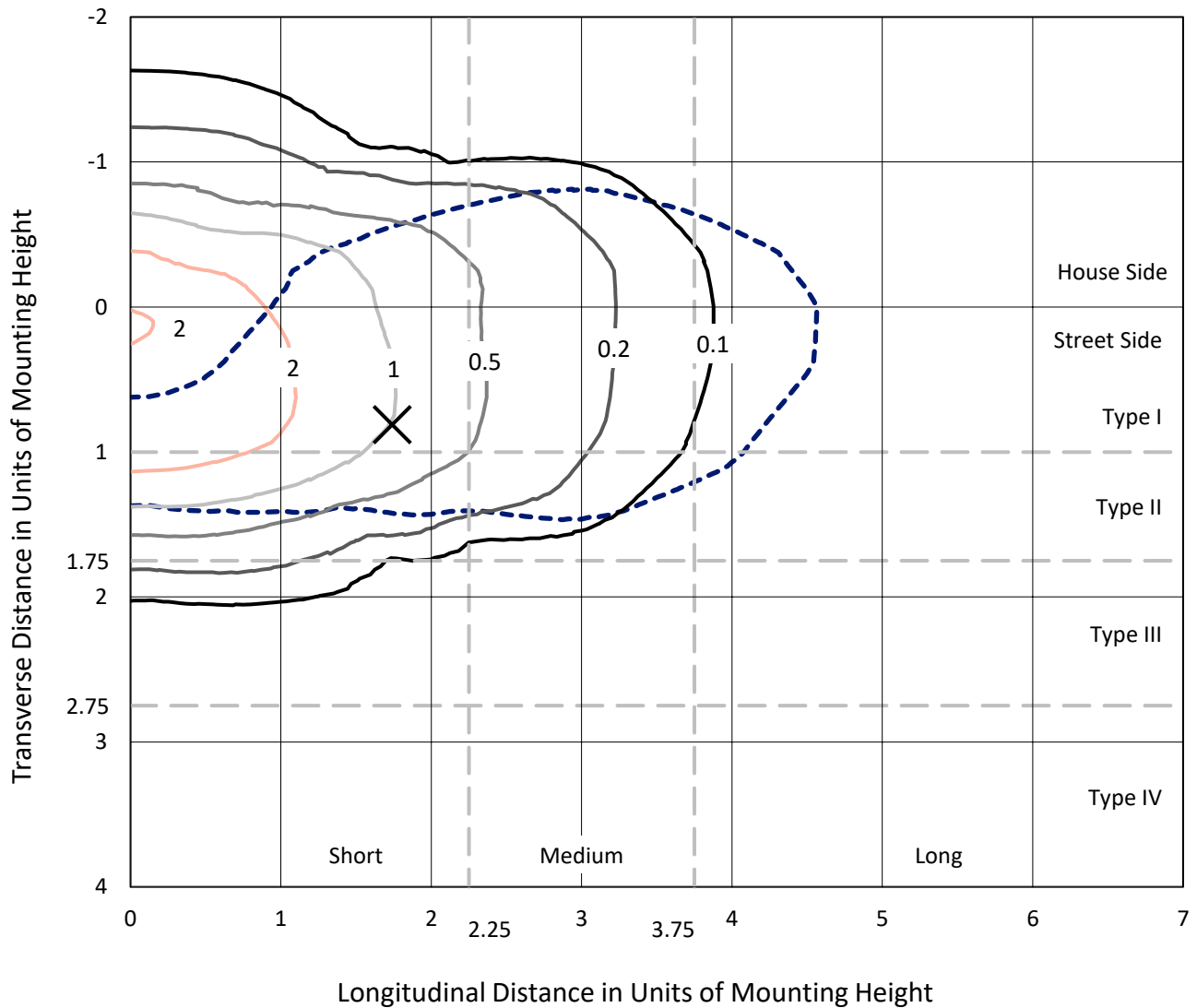
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

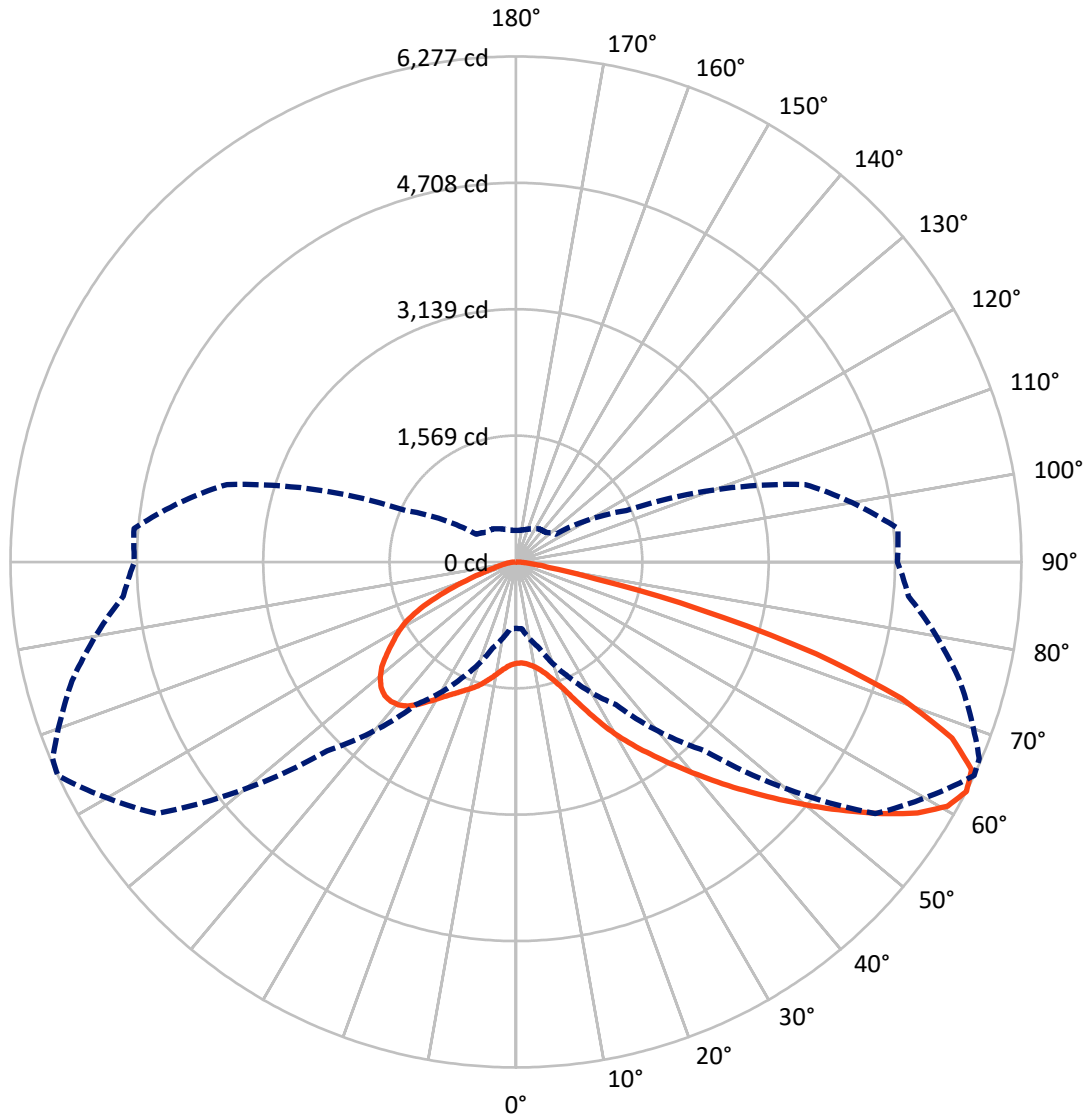
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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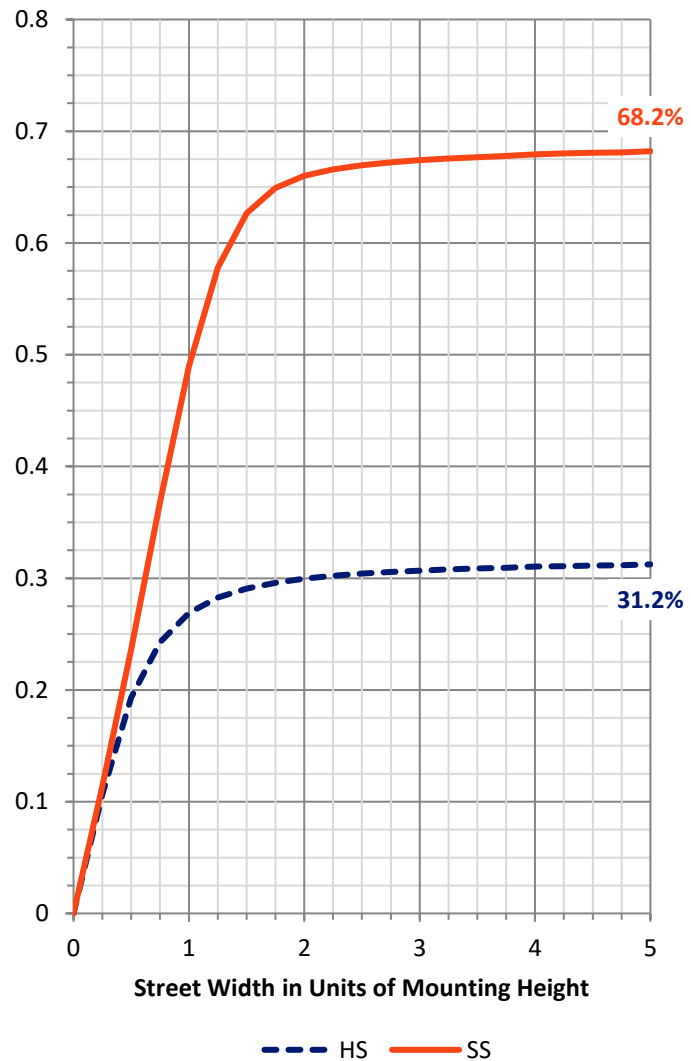
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3601.1	0.0	3601.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	7810.9	0.0	7810.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	11412.0	0.0	11412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.1
10°-20°	425.2	3.7
20°-30°	862.1	7.6
30°-40°	1491.8	13.1
40°-50°	2257.5	19.8
50°-60°	2646.8	23.2
60°-70°	2219.0	19.4
70°-80°	1225.1	10.7
80°-90°	159.1	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°	11412.0	100.0
0°-180°	11412.0	100.0

Coefficient of Utilization



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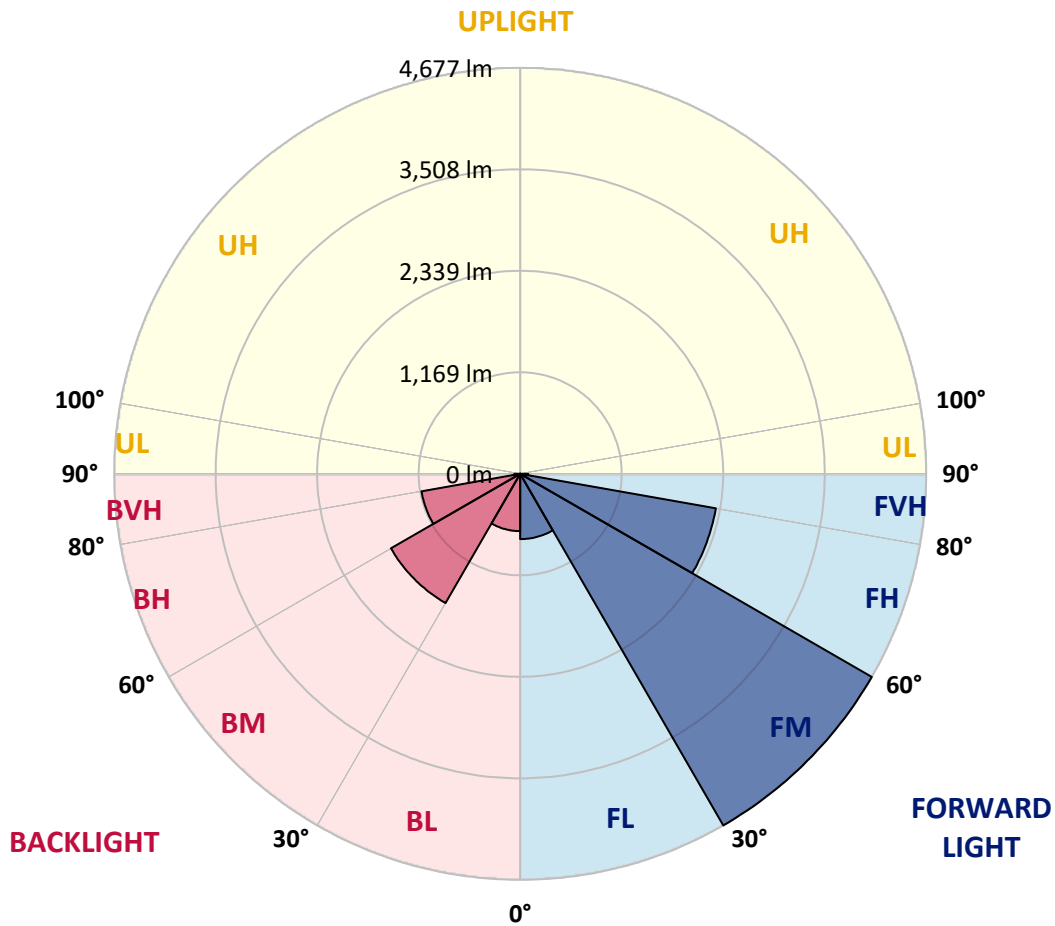
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.2	6.6			
FM (30°-60°)	4677.0	41.0			
FH (60°-80°)	2288.9	20.1			G2/5000
FVH (80°-90°)	92.8	0.8			G1/100
BL (0°-30°)	660.4	5.8	B2/1000		
BM (30°-60°)	1719.1	15.1	B2/2500		
BH (60°-80°)	1155.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	66.4	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°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
2.5°	1249.3	1245.7	1248.7	1248.7	1249.9	1249.3	1253.4	1254.6	1256.4	1259.9
5°	1236.8	1236.2	1241.6	1246.3	1251.0	1255.2	1260.5	1268.2	1269.4	1273.5
7.5°	1232.7	1229.1	1237.4	1243.3	1254.6	1264.7	1278.9	1291.9	1297.2	1299.0
10°	1264.7	1258.7	1266.4	1270.0	1279.5	1289.5	1306.1	1326.8	1332.7	1339.9
12.5°	1319.1	1312.6	1323.9	1329.2	1338.1	1347.0	1358.2	1378.3	1381.3	1394.3
15°	1393.7	1386.0	1393.1	1399.6	1414.5	1422.7	1434.0	1453.5	1453.5	1463.6
17.5°	1495.0	1484.9	1490.2	1492.6	1502.1	1514.5	1533.5	1550.6	1559.5	1556.0
20°	1645.9	1633.5	1633.5	1621.7	1618.1	1628.2	1653.1	1676.7	1686.2	1667.9
22.5°	1872.7	1854.9	1844.9	1804.6	1788.6	1789.8	1814.7	1843.7	1851.4	1818.8
25°	2161.0	2133.2	2119.6	2060.4	2024.3	1992.9	2012.4	2049.7	2060.4	2020.1
27.5°	2449.4	2451.2	2438.1	2367.1	2307.3	2249.9	2239.8	2278.9	2290.1	2244.5
30°	2853.8	2811.7	2786.9	2701.6	2616.3	2535.8	2494.4	2510.4	2513.3	2458.9
32.5°	3202.5	3191.8	3138.6	3064.0	2954.4	2828.3	2759.0	2733.6	2728.8	2651.3
35°	3599.8	3593.9	3537.6	3448.8	3330.4	3155.1	3030.2	2957.4	2951.5	2842.5
37.5°	4003.6	4003.6	3948.5	3851.4	3728.8	3509.8	3319.7	3204.3	3185.3	3043.2
40°	4325.7	4306.1	4316.2	4275.3	4135.0	3902.3	3641.2	3473.7	3448.2	3277.7
42.5°	4508.6	4502.1	4562.5	4608.1	4550.6	4364.7	3995.3	3765.6	3730.0	3535.8
45°	4549.5	4542.3	4650.1	4817.1	4897.6	4821.2	4380.1	4072.8	4029.6	3805.8
47.5°	4455.3	4441.1	4599.2	4862.7	5120.8	5255.2	4796.9	4406.2	4343.4	4068.7
50°	4172.3	4158.7	4397.9	4747.8	5196.0	5550.0	5249.3	4759.6	4663.7	4350.5
52.5°	3557.1	3563.7	3938.4	4419.2	5097.1	5733.6	5638.9	5132.0	5016.6	4638.9
55°	2770.9	2785.1	3245.7	3775.0	4701.6	5705.8	5904.7	5515.7	5400.8	4910.0
57.5°	1984.0	2046.8	2478.4	3002.4	3942.0	5264.7	5962.7	5880.4	5769.1	5206.1
60°	1286.0	1297.2	1741.3	2269.4	3001.8	4480.8	5844.9	6156.9	6069.9	5508.0
62.5°	824.2	831.9	1102.4	1587.3	2160.5	3315.0	5448.2	6277.1	6250.5	5707.5
65°	605.7	599.8	740.7	1049.1	1455.3	2044.4	4677.9	6219.1	6271.8	5832.5
67.5°	505.6	497.3	566.6	726.5	1072.2	1161.0	3461.2	5841.9	6035.0	5818.3
70°	460.6	453.5	495.6	539.4	836.6	777.4	1744.8	5078.8	5376.0	5656.6
72.5°	390.2	377.7	435.2	479.0	650.7	596.2	721.1	3901.1	4263.5	5138.6
75°	302.5	294.3	343.4	421.6	489.0	465.4	455.9	2368.9	2764.4	3974.0
77.5°	239.8	228.5	273.5	328.6	439.9	351.1	332.2	1020.1	1412.1	2537.0
80°	180.6	170.5	207.8	259.9	338.1	264.7	214.9	416.2	532.3	1285.4
82.5°	128.5	119.6	145.1	190.6	227.4	237.4	132.0	233.3	262.3	495.6
85°	82.3	77.0	97.1	119.6	144.5	152.8	80.5	122.0	133.8	204.3
87.5°	45.0	36.7	52.1	55.7	66.9	61.0	38.5	44.4	48.0	74.0
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°
1257.6	0°	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6	1257.6
1259.9	2.5°	1262.3	1264.1	1270.0	1271.8	1275.9	1281.2	1284.8	1288.3	1288.3	1291.9
1278.9	5°	1279.5	1283.6	1296.0	1302.6	1313.2	1323.9	1330.4	1338.1	1342.8	1345.2
1309.1	7.5°	1312.6	1319.1	1336.9	1348.1	1366.5	1381.3	1391.4	1402.0	1404.4	1410.9
1351.1	10°	1357.6	1365.3	1385.4	1406.8	1428.7	1447.0	1456.5	1464.2	1467.1	1468.3
1405.0	12.5°	1409.1	1420.4	1446.4	1472.5	1495.6	1511.6	1513.9	1512.1	1503.9	1496.7
1471.3	15°	1472.5	1482.5	1511.6	1540.0	1562.5	1565.4	1550.6	1541.2	1531.1	1529.3
1545.3	17.5°	1548.3	1553.6	1580.2	1608.1	1609.8	1599.8	1577.9	1569.0	1559.5	1553.0
1641.8	20°	1636.5	1634.7	1653.6	1665.5	1653.1	1622.3	1589.1	1574.3	1564.8	1557.1
1760.2	22.5°	1741.9	1728.2	1725.9	1722.9	1689.8	1625.2	1580.2	1561.3	1546.5	1535.8
1925.4	25°	1895.2	1843.1	1807.0	1786.9	1712.3	1609.2	1551.8	1509.8	1481.9	1463.6
2127.3	27.5°	2087.0	1999.4	1908.2	1859.1	1712.3	1576.7	1483.1	1415.0	1369.5	1350.5
2322.7	30°	2270.0	2178.2	2043.8	1946.1	1708.1	1523.4	1372.4	1277.7	1224.4	1205.5
2489.6	32.5°	2426.3	2326.2	2187.7	2041.5	1698.1	1436.9	1235.1	1130.3	1078.7	1056.2
2654.8	35°	2571.4	2464.8	2332.2	2146.2	1671.4	1310.2	1084.1	1004.1	946.7	910.6
2823.0	37.5°	2720.0	2593.3	2468.9	2241.0	1623.5	1162.2	968.0	899.9	832.4	783.9
3001.8	40°	2881.6	2730.0	2615.2	2297.2	1544.7	1021.3	878.0	815.9	744.2	692.7
3207.8	42.5°	3070.5	2894.0	2778.0	2326.2	1436.9	921.3	819.4	758.4	690.9	648.9
3428.7	45°	3267.6	3074.6	2926.6	2325.6	1316.8	874.5	800.5	740.1	665.5	621.7
3655.4	47.5°	3474.3	3263.5	3055.1	2287.8	1212.6	881.0	789.8	700.4	618.1	575.5
3884.6	50°	3681.5	3470.1	3179.4	2216.7	1168.2	866.8	750.2	644.8	547.7	509.2
4099.5	52.5°	3886.9	3689.8	3286.6	2115.5	1123.2	814.1	699.2	572.5	518.7	492.0
4321.5	55°	4093.6	3907.1	3403.2	1968.0	1010.7	752.5	614.0	545.3	495.6	471.3
4538.8	57.5°	4300.8	4158.1	3513.9	1820.6	869.2	676.7	567.2	512.1	472.5	451.7
4720.6	60°	4516.3	4445.2	3628.2	1685.0	729.4	579.6	532.9	485.5	445.2	422.1
4895.2	62.5°	4738.3	4761.4	3717.6	1510.4	600.9	520.4	502.1	453.5	414.4	392.5
5039.7	65°	4962.1	5066.3	3776.2	1268.2	487.3	464.2	468.9	418.6	378.9	360.0
5145.7	67.5°	5130.9	5286.0	3759.6	959.7	399.6	410.9	427.5	381.9	344.6	329.8
5128.5	70°	5149.8	5259.9	3596.2	657.2	334.5	358.8	381.3	345.8	307.3	296.6
4886.9	72.5°	4897.6	4904.7	3140.9	429.2	283.0	315.0	332.7	309.1	271.8	261.1
4275.3	75°	4236.2	4056.3	2306.1	283.0	236.8	270.6	287.2	270.6	234.5	236.8
3198.9	77.5°	3209.6	2872.7	1400.2	201.3	197.8	227.4	249.9	238.0	207.2	232.7
1608.6	80°	1653.6	1554.2	624.6	150.4	156.3	181.8	205.4	190.1	164.0	156.3
359.4	82.5°	378.9	440.5	246.3	107.8	113.1	130.8	156.9	142.7	117.8	99.5
149.8	85°	132.6	145.1	108.9	67.5	66.3	81.7	106.6	95.3	79.9	63.9
63.4	87.5°	42.0	55.1	40.9	27.2	28.4	36.7	49.1	45.0	37.3	24.3
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>
1257.6
1291.9
1346.4
1408.5
1465.4
1496.7
1529.3
1553.6
1557.7
1539.4
1470.7
1360.0
1216.7
1067.5
922.4
796.9
702.8
657.2
628.8
581.4
511.5
492.0
468.9
448.2
420.4
391.9
359.4
330.4
297.2
260.5
228.5
204.9
142.7
98.3
67.5
25.5
0.0

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