

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: P947853

Luminaire Tested: **GALN-SB3A-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947853
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-SB3A-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11681 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

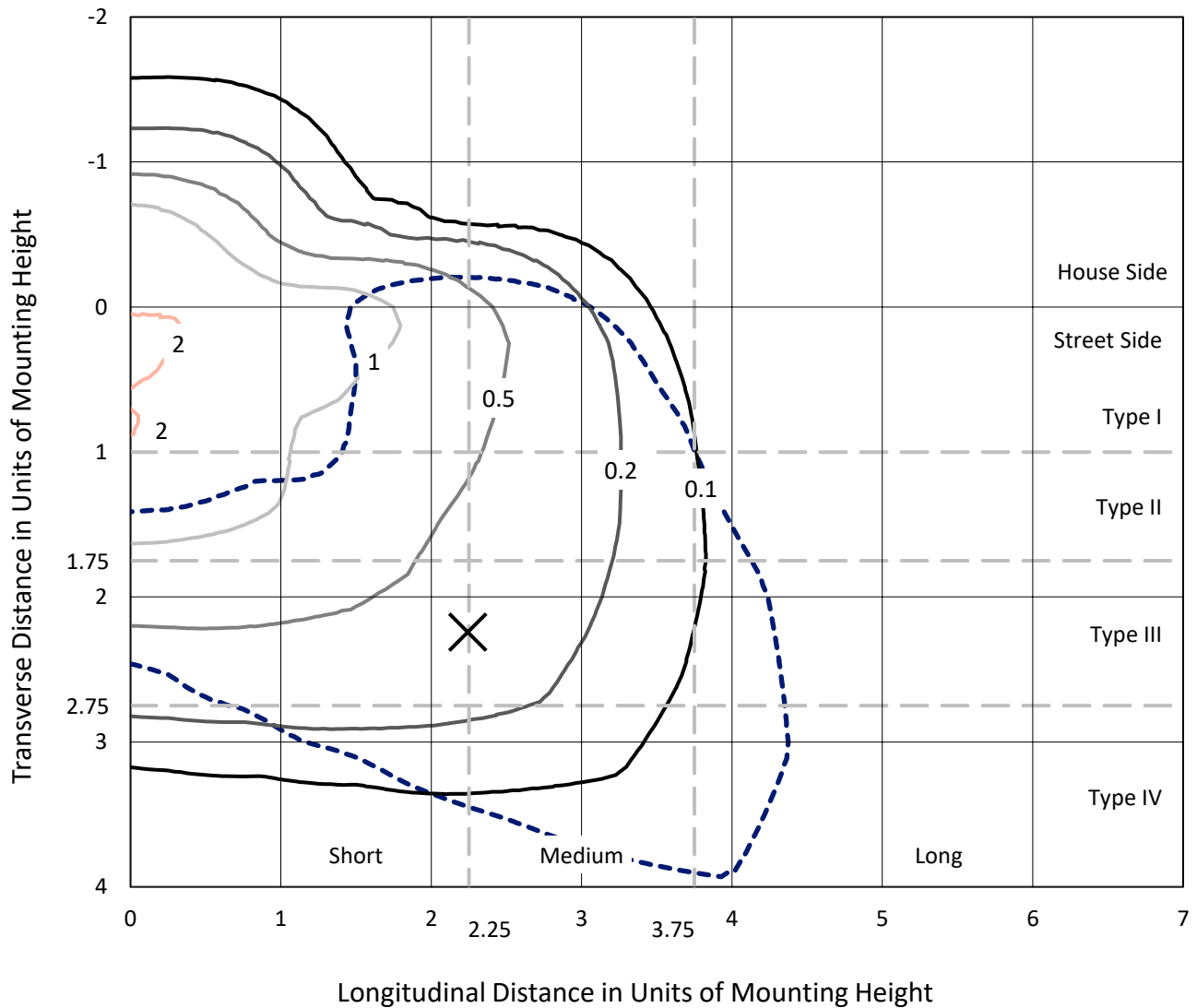
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

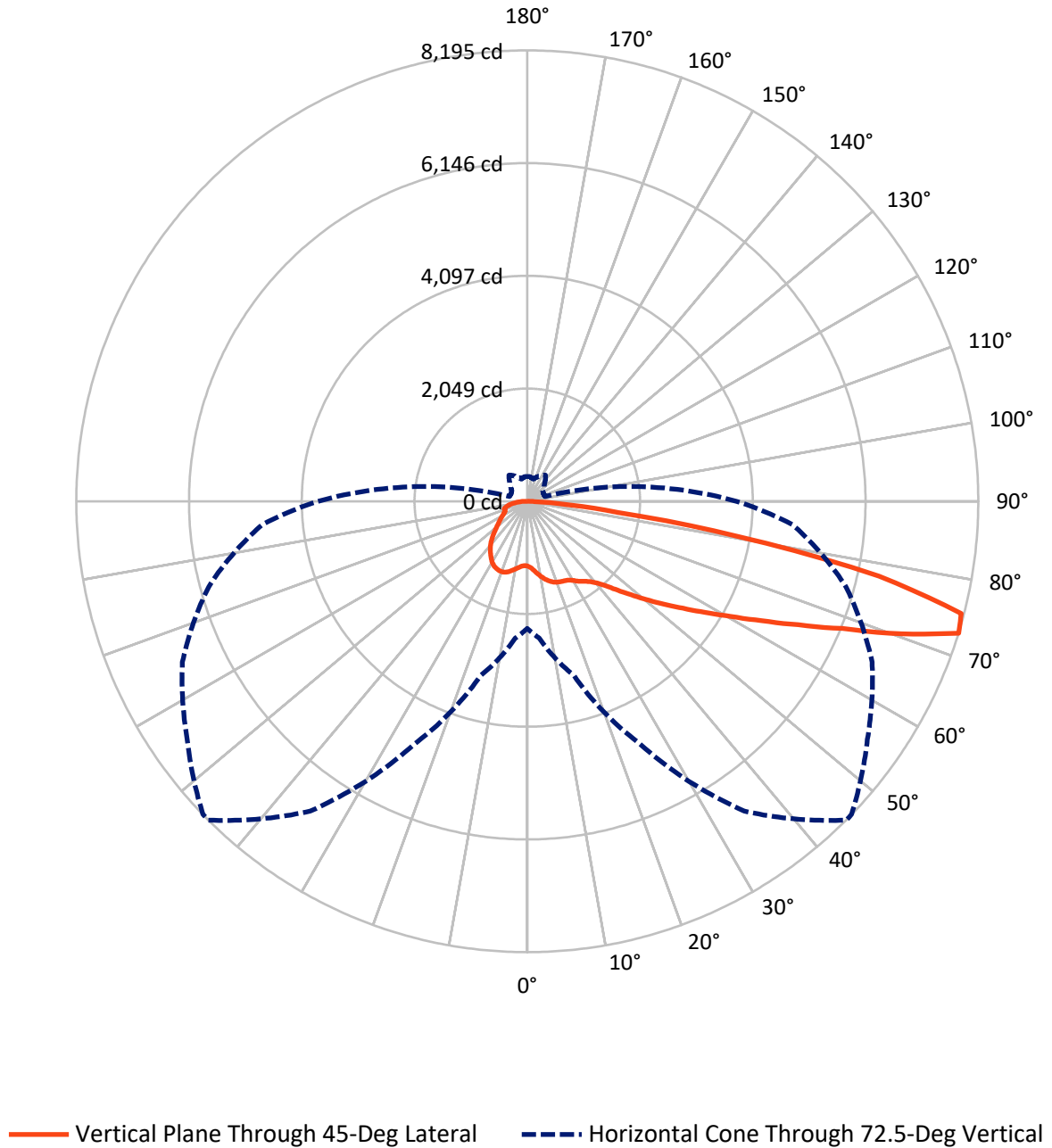
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2640.7	0.0	2640.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9040.3	0.0	9040.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	11681.0	0.0	11681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	1.0
10°-20°	399.9	3.4
20°-30°	695.6	6.0
30°-40°	997.2	8.5
40°-50°	1404.1	12.0
50°-60°	2150.7	18.4
60°-70°	3115.6	26.7
70°-80°	2488.0	21.3
80°-90°	309.9	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°	11681.0	100.0
0°-180°	11681.0	100.0

Coefficient of Utilization



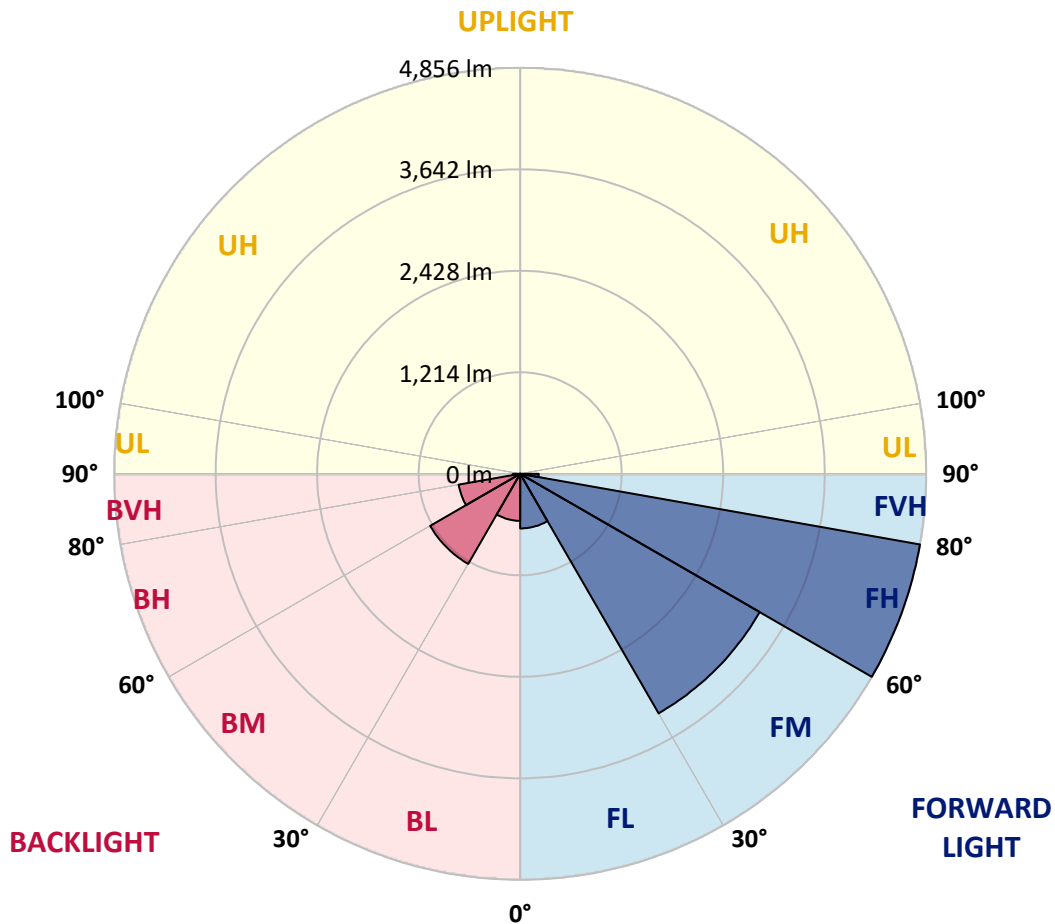
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.2	5.6			
FM (30°-60°)	3308.7	28.3			
FH (60°-80°)	4856.1	41.6			G2/5000
FVH (80°-90°)	222.3	1.9			G2/225
BL (0°-30°)	562.2	4.8	B2/1000		
BM (30°-60°)	1243.4	10.6	B2/2500		
BH (60°-80°)	747.5	6.4	B2/1000		G2/1000
BVH (80°-90°)	87.6	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°	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4
2.5°	1224.5	1232.5	1225.2	1218.4	1215.3	1207.3	1206.7	1201.8	1198.7	1190.1
5°	1310.1	1320.5	1308.2	1294.7	1282.4	1262.7	1260.2	1246.1	1230.1	1211.6
7.5°	1406.7	1415.9	1401.8	1381.4	1359.9	1327.3	1326.7	1300.8	1275.6	1244.2
10°	1491.0	1503.3	1484.2	1456.5	1429.4	1392.5	1388.2	1358.7	1326.7	1286.1
12.5°	1565.4	1574.1	1555.6	1521.7	1490.4	1453.4	1447.9	1415.3	1379.6	1333.5
15°	1624.5	1635.6	1611.0	1574.7	1541.4	1505.1	1500.2	1470.7	1435.0	1386.4
17.5°	1663.3	1672.5	1647.3	1606.7	1574.7	1544.5	1540.8	1516.2	1484.8	1435.6
20°	1678.0	1687.9	1661.4	1620.2	1590.7	1567.3	1565.4	1547.6	1526.1	1481.1
22.5°	1692.8	1702.0	1667.6	1624.5	1598.7	1583.9	1583.3	1571.6	1563.0	1526.1
25°	1752.5	1755.0	1708.8	1646.7	1609.7	1596.8	1596.2	1595.6	1599.3	1570.4
27.5°	1804.2	1803.6	1764.2	1705.7	1648.5	1621.4	1620.8	1627.0	1638.7	1614.7
30°	1879.9	1873.1	1826.3	1765.4	1713.1	1671.3	1667.6	1662.0	1671.3	1652.2
32.5°	2040.5	2018.9	1943.3	1835.0	1766.7	1734.7	1729.7	1695.3	1699.0	1687.3
35°	2270.6	2242.3	2141.4	1966.6	1833.1	1787.6	1785.1	1741.4	1734.0	1723.6
37.5°	2544.5	2509.4	2391.8	2157.4	1947.6	1849.1	1845.4	1806.0	1775.9	1764.8
40°	2819.5	2775.2	2678.0	2390.0	2116.2	1951.9	1940.2	1880.5	1846.0	1827.6
42.5°	3086.6	3049.6	2966.6	2650.9	2324.2	2102.0	2076.2	1974.0	1948.2	1931.0
45°	3322.9	3289.6	3228.7	2929.7	2567.8	2306.3	2281.1	2114.3	2106.3	2106.3
47.5°	3514.9	3507.5	3442.9	3213.9	2855.2	2538.9	2495.2	2309.4	2330.9	2364.2
50°	3727.8	3707.5	3638.5	3493.9	3193.0	2805.4	2769.7	2548.8	2629.4	2720.4
52.5°	3923.4	3934.5	3857.6	3785.6	3574.5	3102.6	3039.8	2831.2	3005.3	3156.1
55°	4124.7	4125.3	4103.7	4093.9	3974.5	3431.2	3362.2	3170.9	3447.8	3634.8
57.5°	4313.6	4314.8	4346.8	4433.6	4438.5	3810.2	3732.1	3588.1	3939.4	4130.2
60°	4482.2	4490.8	4578.2	4781.2	4846.5	4244.6	4170.8	4081.0	4447.7	4639.7
62.5°	4538.8	4570.2	4764.6	5053.2	5249.5	4777.5	4704.9	4651.4	4981.8	5160.3
65°	4442.8	4514.8	4890.8	5277.8	5664.3	5410.7	5338.7	5280.3	5536.9	5704.9
67.5°	4207.1	4300.0	4883.4	5513.5	6167.6	6172.5	6105.5	5968.2	6131.9	6196.5
70°	3586.2	3725.3	4453.3	5601.5	6745.4	7214.3	7149.7	6796.5	6725.7	6413.1
72.5°	2310.6	2497.7	3279.2	4877.2	6874.0	8194.5	8190.9	7544.1	6913.4	5992.2
75°	843.0	957.5	1523.6	3061.3	5770.1	8144.7	8168.7	7416.1	6311.0	4628.6
77.5°	307.1	336.0	497.2	1176.5	3548.7	6535.0	6584.8	5928.8	4492.0	2322.9
80°	161.2	177.2	254.8	456.6	1520.5	3881.0	3959.1	3523.5	2111.2	699.6
82.5°	89.2	96.6	142.8	248.0	684.9	1659.6	1706.4	1391.9	742.7	296.6
85°	48.0	51.1	67.1	135.4	334.7	575.3	588.3	416.0	296.0	174.1
87.5°	14.2	17.2	22.2	43.1	131.1	129.2	132.3	82.5	116.9	88.0
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°
1178.4	0°	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4	1178.4
1187.6	2.5°	1183.9	1182.1	1175.3	1172.2	1168.5	1167.9	1171.0	1171.6	1172.2	1172.8
1201.2	5°	1195.0	1188.8	1182.7	1179.0	1180.2	1180.8	1187.0	1191.3	1194.4	1196.8
1226.4	7.5°	1216.5	1211.6	1201.2	1200.5	1202.4	1207.9	1215.9	1225.8	1231.3	1235.6
1259.0	10°	1248.5	1239.3	1227.0	1228.8	1232.5	1240.5	1257.1	1265.1	1274.4	1282.4
1299.0	12.5°	1281.1	1273.1	1259.0	1260.2	1266.4	1280.5	1296.5	1306.4	1312.5	1318.7
1342.1	15°	1323.6	1309.5	1294.1	1294.1	1305.1	1320.5	1327.9	1335.9	1339.6	1346.4
1388.2	17.5°	1367.3	1348.8	1328.5	1327.3	1340.8	1348.2	1352.5	1353.8	1355.0	1362.4
1433.1	20°	1411.0	1390.7	1361.8	1359.3	1362.4	1361.1	1360.5	1359.3	1361.1	1370.4
1479.3	22.5°	1454.1	1430.7	1390.7	1379.6	1371.0	1359.3	1358.7	1358.1	1359.3	1368.5
1529.1	25°	1504.5	1476.2	1422.7	1389.4	1360.5	1344.5	1346.4	1347.0	1348.2	1355.6
1580.8	27.5°	1559.3	1527.9	1452.2	1386.4	1334.1	1323.0	1319.9	1321.8	1326.1	1337.8
1632.5	30°	1614.0	1577.1	1479.3	1374.1	1300.8	1285.5	1275.6	1279.9	1293.5	1305.1
1677.4	32.5°	1663.9	1627.0	1500.8	1347.0	1258.4	1234.4	1221.5	1227.0	1240.5	1244.8
1727.3	35°	1722.4	1680.5	1510.1	1303.9	1212.2	1175.3	1158.1	1150.1	1156.8	1152.5
1785.7	37.5°	1787.6	1743.9	1508.8	1247.3	1158.1	1115.6	1091.6	1061.5	1047.3	1032.5
1871.9	40°	1884.2	1821.4	1494.1	1179.0	1091.0	1052.2	1009.2	958.1	926.1	897.2
2010.9	42.5°	2015.9	1929.1	1467.0	1103.9	1015.3	979.0	920.6	860.9	810.4	762.4
2222.0	45°	2212.2	2070.0	1433.1	1023.9	933.5	897.8	834.4	767.3	710.1	648.6
2521.7	47.5°	2495.2	2259.5	1401.1	932.9	847.3	814.7	757.5	695.3	627.7	568.0
2954.9	50°	2884.1	2531.5	1371.6	844.3	762.4	737.8	692.3	628.9	560.6	512.6
3462.5	52.5°	3378.9	2901.4	1359.3	758.7	683.0	673.8	637.5	578.4	513.8	473.2
4054.5	55°	3946.8	3343.8	1359.3	676.9	613.5	616.6	591.3	536.6	480.6	444.3
4664.9	57.5°	4526.5	3791.8	1334.7	601.2	554.4	567.3	551.3	503.4	452.9	415.4
5306.7	60°	5060.6	4167.1	1235.0	532.3	502.1	522.4	512.0	470.7	409.2	377.8
5843.3	62.5°	5471.0	4378.8	1043.0	477.5	459.0	482.4	476.9	427.7	401.2	388.3
6283.9	65°	5676.6	4344.3	797.5	428.9	422.7	459.0	447.4	445.5	424.6	409.8
6427.3	67.5°	5550.4	4047.7	578.4	393.2	401.8	437.5	482.4	489.8	451.0	422.1
6023.6	70°	4997.2	3511.2	430.7	359.4	375.4	438.1	550.1	512.6	442.4	408.6
4831.1	72.5°	3801.6	2618.3	334.1	323.7	340.9	441.2	580.3	502.1	417.8	451.7
3009.7	75°	2174.0	1437.4	268.3	280.0	297.8	412.3	564.9	475.0	398.7	414.7
1192.5	77.5°	828.9	552.6	221.5	236.9	239.4	360.0	540.3	473.2	379.7	370.4
357.5	80°	287.4	216.0	183.4	188.3	185.2	320.0	518.1	411.7	310.7	278.1
147.7	82.5°	117.5	107.7	145.2	139.1	131.7	248.6	418.4	336.6	254.1	224.6
71.4	85°	51.1	68.3	96.0	84.3	76.3	172.3	335.4	284.9	214.8	185.2
23.4	87.5°	10.5	25.8	40.6	38.2	39.4	115.1	238.1	202.4	152.0	113.8
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>
1178.4
1175.3
1198.1
1236.8
1280.5
1321.1
1348.8
1364.8
1374.1
1374.7
1365.5
1349.5
1318.1
1260.2
1166.1
1041.8
899.0
758.1
641.2
561.2
509.5
470.1
440.6
409.2
372.9
384.0
404.9
417.2
403.1
448.0
414.7
337.8
268.9
222.1
184.6
89.2
0.0

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