

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: P939432

Luminaire Tested: **GALN-SB2A-740-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-740-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9408 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

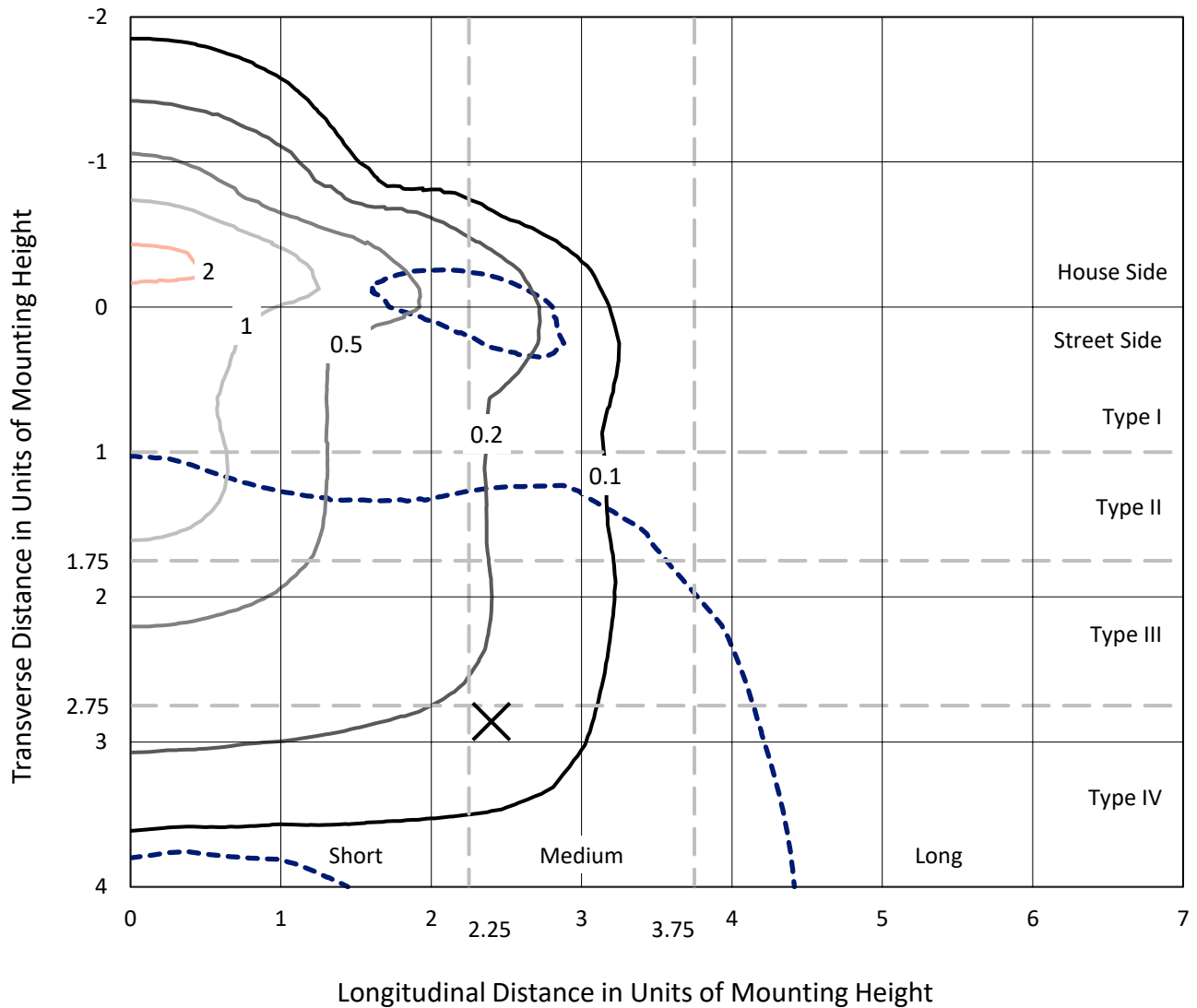
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

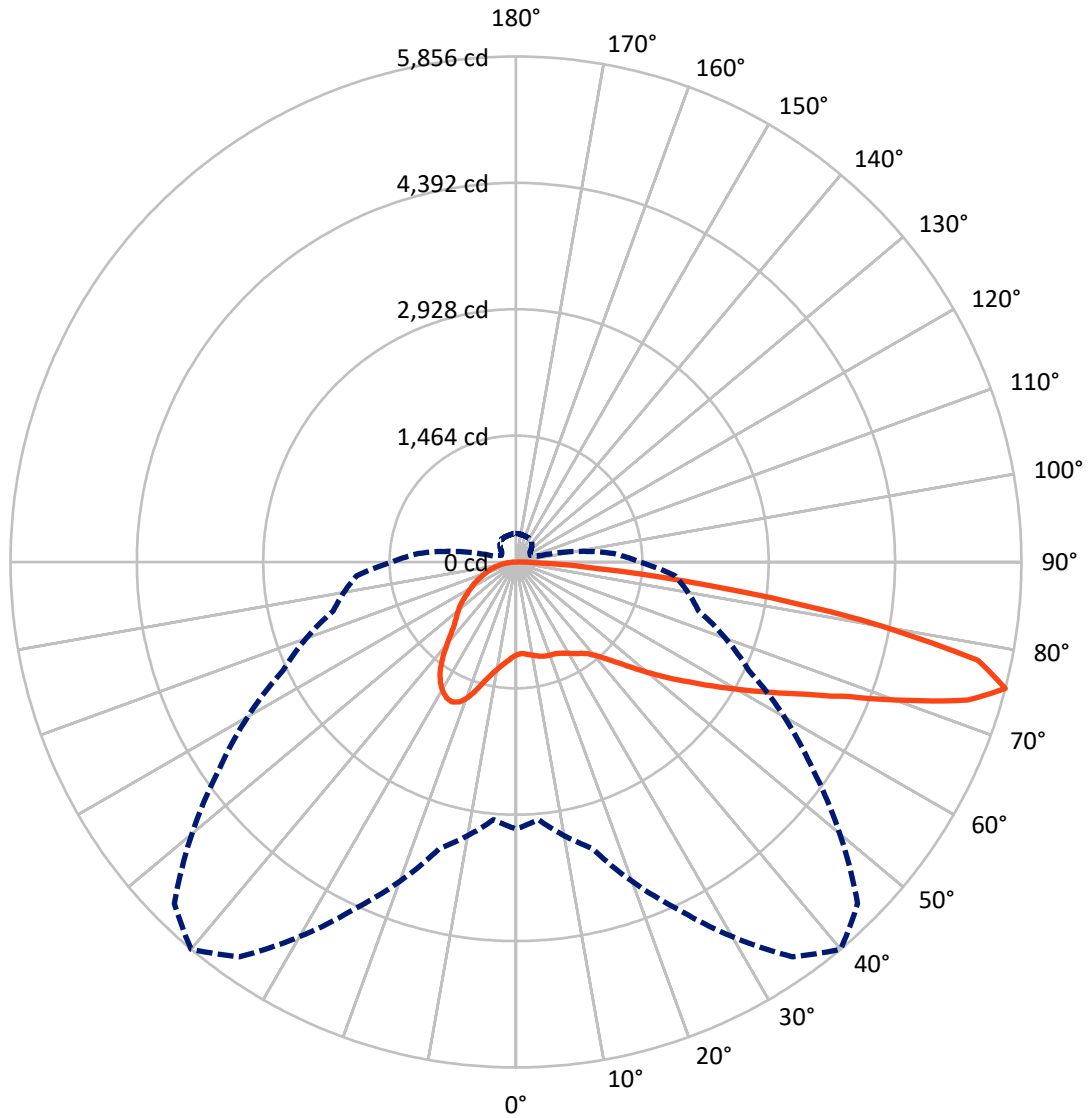
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2914.9	0.0	2914.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6493.1	0.0	6493.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	9408.0	0.0	9408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.1
10°-20°	360.5	3.8
20°-30°	658.3	7.0
30°-40°	933.7	9.9
40°-50°	1260.8	13.4
50°-60°	1696.1	18.0
60°-70°	2152.7	22.9
70°-80°	1953.7	20.8
80°-90°	284.8	3.0
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°	9408.0	100.0
0°-180°	9408.0	100.0

Coefficient of Utilization



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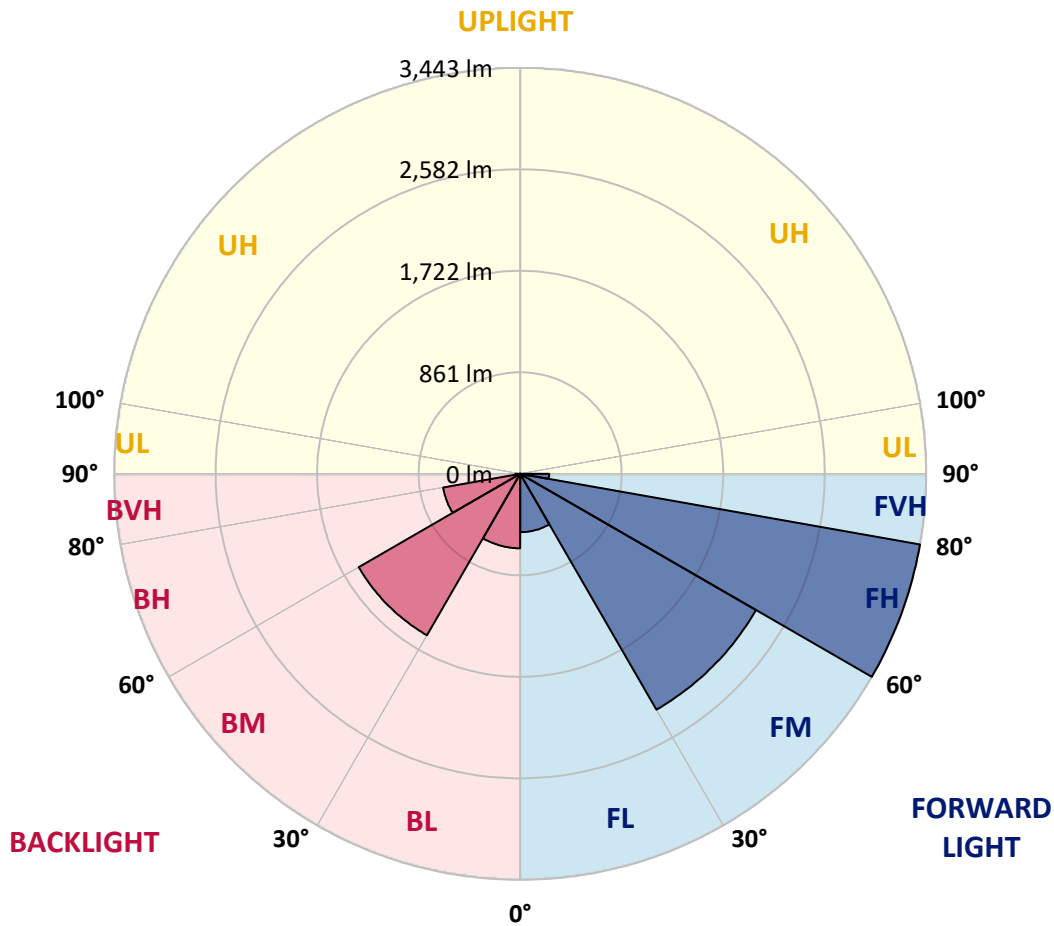
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.9	5.3			
FM (30°-60°)	2309.5	24.5			
FH (60°-80°)	3443.2	36.6			G2/5000
FVH (80°-90°)	245.6	2.6			G3/500
BL (0°-30°)	631.4	6.7	B2/1000		
BM (30°-60°)	1581.1	16.8	B2/2500		
BH (60°-80°)	663.2	7.0	B2/1000		G2/1000
BVH (80°-90°)	39.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
2.5°	1059.4	1065.3	1063.8	1061.8	1061.8	1062.3	1061.8	1065.3	1068.8	1072.3
5°	1070.3	1076.3	1073.3	1070.8	1068.8	1068.3	1066.8	1066.3	1068.3	1072.8
7.5°	1091.8	1097.8	1093.3	1088.8	1084.8	1082.8	1080.8	1077.8	1076.3	1078.8
10°	1115.7	1121.7	1116.2	1108.3	1101.8	1099.3	1097.3	1094.3	1092.3	1093.8
12.5°	1139.7	1145.7	1138.2	1127.2	1118.7	1117.2	1114.7	1113.7	1113.2	1112.7
15°	1162.1	1167.1	1157.7	1144.7	1135.7	1133.2	1130.7	1132.2	1134.7	1137.7
17.5°	1179.6	1184.6	1170.6	1153.7	1145.2	1144.2	1142.7	1147.7	1154.7	1162.1
20°	1195.6	1200.6	1182.6	1159.6	1149.7	1149.7	1150.2	1160.6	1170.6	1181.6
22.5°	1218.0	1222.0	1200.1	1168.6	1154.2	1155.2	1159.1	1169.6	1182.1	1197.1
25°	1251.5	1254.5	1227.5	1185.6	1169.1	1172.1	1175.6	1180.6	1192.6	1210.0
27.5°	1305.4	1307.8	1272.4	1215.5	1190.6	1195.6	1200.6	1197.1	1202.6	1217.5
30°	1381.2	1382.7	1337.8	1262.4	1227.0	1229.5	1230.5	1216.0	1205.6	1217.5
32.5°	1471.0	1470.5	1417.1	1319.3	1268.4	1265.9	1257.4	1229.0	1204.6	1215.0
35°	1610.2	1604.7	1535.9	1399.2	1315.3	1299.9	1279.9	1243.5	1209.5	1212.5
37.5°	1840.8	1823.8	1728.5	1529.9	1385.2	1345.8	1316.3	1266.9	1220.5	1211.5
40°	2100.7	2079.3	1974.5	1709.0	1490.0	1426.6	1379.2	1300.4	1238.5	1216.0
42.5°	2409.1	2378.7	2265.9	1920.1	1622.7	1530.9	1459.5	1342.8	1264.9	1230.5
45°	2787.8	2747.4	2587.7	2158.1	1789.9	1667.6	1572.3	1407.1	1305.4	1258.4
47.5°	3170.6	3180.5	2953.5	2430.6	1990.5	1836.3	1713.5	1503.9	1364.2	1303.4
50°	3577.2	3584.2	3317.3	2732.5	2218.0	2026.9	1872.2	1612.2	1446.1	1367.2
52.5°	3894.6	3895.6	3647.6	3048.3	2455.0	2236.5	2043.4	1736.0	1540.9	1452.1
55°	4093.2	4090.7	3879.1	3347.2	2727.5	2456.5	2233.0	1876.7	1656.6	1551.9
57.5°	4237.4	4229.9	4038.8	3604.2	3017.9	2716.5	2447.5	2036.4	1793.4	1670.6
60°	4292.3	4287.8	4147.1	3826.2	3323.3	3003.9	2695.0	2215.0	1948.5	1810.8
62.5°	4313.2	4321.7	4253.4	4041.3	3650.1	3322.3	2967.0	2428.6	2123.2	1969.5
65°	4387.1	4402.6	4388.6	4322.7	4019.3	3695.0	3327.7	2682.6	2313.8	2139.7
67.5°	4533.3	4548.8	4554.8	4659.5	4470.4	4159.6	3777.8	2998.9	2536.9	2316.3
70°	4529.8	4525.3	4631.1	4927.5	5035.3	4802.8	4384.6	3388.1	2802.8	2463.0
72.5°	4123.1	4087.2	4337.2	4924.5	5505.3	5474.4	5125.6	3890.1	3032.3	2481.0
75°	3093.2	2997.4	3439.0	4438.0	5583.7	5855.6	5596.6	4201.5	2978.0	2192.1
77.5°	1322.8	1226.5	1747.0	3285.3	4997.4	5473.9	5164.5	3665.6	2377.2	1449.6
80°	346.3	345.8	527.9	1489.5	3398.6	4042.3	3546.3	2367.2	1358.2	517.9
82.5°	143.2	139.7	194.1	579.3	1660.6	2268.4	1851.2	1055.9	490.5	140.2
85°	53.4	52.9	94.3	200.1	585.8	935.6	677.1	270.0	122.3	68.4
87.5°	15.0	14.5	20.5	69.4	142.7	216.6	115.8	44.4	34.4	26.9
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°
1075.8	0°	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8	1075.8
1077.8	2.5°	1079.3	1081.8	1086.3	1089.8	1094.3	1099.3	1106.3	1110.7	1115.2	1118.2
1080.3	5°	1083.8	1089.3	1100.8	1112.2	1125.7	1138.2	1152.7	1163.1	1171.6	1174.1
1089.3	7.5°	1093.8	1102.8	1122.2	1141.7	1163.1	1183.6	1204.6	1222.5	1237.0	1242.5
1105.3	10°	1111.2	1123.2	1150.7	1178.1	1206.6	1238.0	1264.9	1290.9	1311.3	1319.8
1124.2	12.5°	1133.2	1148.2	1184.1	1222.0	1261.4	1304.9	1339.8	1371.7	1397.2	1408.6
1150.7	15°	1161.6	1181.1	1227.0	1277.9	1335.8	1396.2	1440.6	1476.0	1504.4	1518.4
1178.1	17.5°	1192.6	1218.5	1276.4	1353.3	1436.1	1515.4	1567.3	1593.3	1622.7	1636.2
1203.6	20°	1222.5	1254.5	1337.3	1449.1	1559.3	1643.7	1685.6	1692.6	1694.6	1696.1
1227.5	22.5°	1253.5	1296.4	1413.6	1569.8	1688.1	1746.5	1752.4	1722.5	1680.6	1661.1
1251.0	25°	1287.4	1344.3	1513.4	1703.0	1798.9	1805.8	1759.9	1687.1	1607.7	1571.3
1269.9	27.5°	1320.3	1399.7	1633.2	1830.3	1878.7	1817.3	1718.5	1615.2	1519.4	1481.0
1283.4	30°	1353.3	1463.0	1765.4	1941.6	1915.1	1788.9	1653.1	1537.9	1441.6	1401.2
1295.4	32.5°	1386.7	1536.9	1917.6	2021.9	1908.6	1728.5	1571.8	1451.1	1366.2	1323.8
1305.9	35°	1424.6	1627.7	2061.8	2065.8	1865.2	1639.7	1464.5	1347.3	1273.4	1239.5
1318.3	37.5°	1474.0	1743.0	2189.1	2076.8	1789.4	1509.4	1331.3	1224.5	1163.6	1148.2
1336.8	40°	1535.4	1881.7	2286.4	2059.3	1677.1	1351.3	1185.6	1100.3	1065.8	1069.3
1361.7	42.5°	1615.2	2036.9	2354.7	2014.4	1520.9	1188.1	1057.9	1019.9	1036.4	1050.4
1399.2	45°	1719.0	2198.0	2397.1	1938.1	1344.3	1049.9	982.5	991.5	1004.0	1005.5
1459.5	47.5°	1851.7	2361.2	2425.1	1822.8	1164.1	952.6	934.6	936.6	934.1	923.6
1549.9	50°	2017.4	2519.9	2450.0	1670.1	1010.9	891.7	867.7	860.8	826.3	792.4
1670.1	52.5°	2206.0	2665.6	2460.5	1480.5	891.7	840.8	801.9	758.0	693.6	683.1
1821.3	55°	2415.6	2800.3	2433.6	1247.5	791.4	775.4	716.5	663.7	656.7	647.7
2020.4	57.5°	2666.1	2945.5	2378.7	987.5	688.6	699.1	641.7	647.7	635.2	621.2
2276.4	60°	2940.0	3095.7	2282.4	750.5	582.3	603.8	622.2	621.7	618.2	606.8
2546.3	62.5°	3186.5	3194.5	2092.8	574.8	489.0	529.9	580.3	579.8	576.8	570.3
2828.3	65°	3333.2	3179.5	1776.4	452.6	412.2	469.0	523.4	527.4	527.9	527.4
3040.3	67.5°	3307.3	3004.4	1342.3	360.3	348.8	407.2	467.1	472.5	476.5	477.5
3067.3	70°	3013.9	2619.7	875.2	287.4	292.4	352.8	413.7	419.1	422.6	426.6
2661.6	72.5°	2349.2	1926.1	501.0	232.5	243.0	305.9	360.8	367.3	369.3	376.7
1852.2	75°	1431.6	1132.7	270.5	183.1	199.6	261.5	308.4	315.9	319.4	328.3
909.7	77.5°	680.6	490.5	154.2	142.7	160.7	213.6	260.5	269.0	259.5	264.5
251.0	80°	230.0	182.1	97.3	108.8	122.8	166.7	208.6	217.1	197.1	196.1
83.3	82.5°	80.3	73.9	61.9	72.4	79.3	119.3	157.7	168.7	146.7	146.2
37.4	85°	31.4	29.9	34.4	39.4	47.4	73.4	103.8	109.3	90.3	72.9
11.0	87.5°	6.5	7.0	8.5	9.0	14.5	25.4	37.4	45.9	36.4	30.9
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>
1075.8
1116.2
1175.1
1243.0
1320.3
1408.6
1517.4
1635.7
1700.1
1666.6
1576.8
1485.5
1405.6
1329.3
1247.0
1159.1
1081.3
1063.3
1015.4
931.6
796.9
686.6
649.2
618.7
602.8
567.8
527.4
478.5
428.6
379.7
329.3
260.5
194.1
139.2
71.9
28.4
0.0

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