

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: P939502

Luminaire Tested: **GALN-SB2A-850-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939502
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-850-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 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: 8506 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

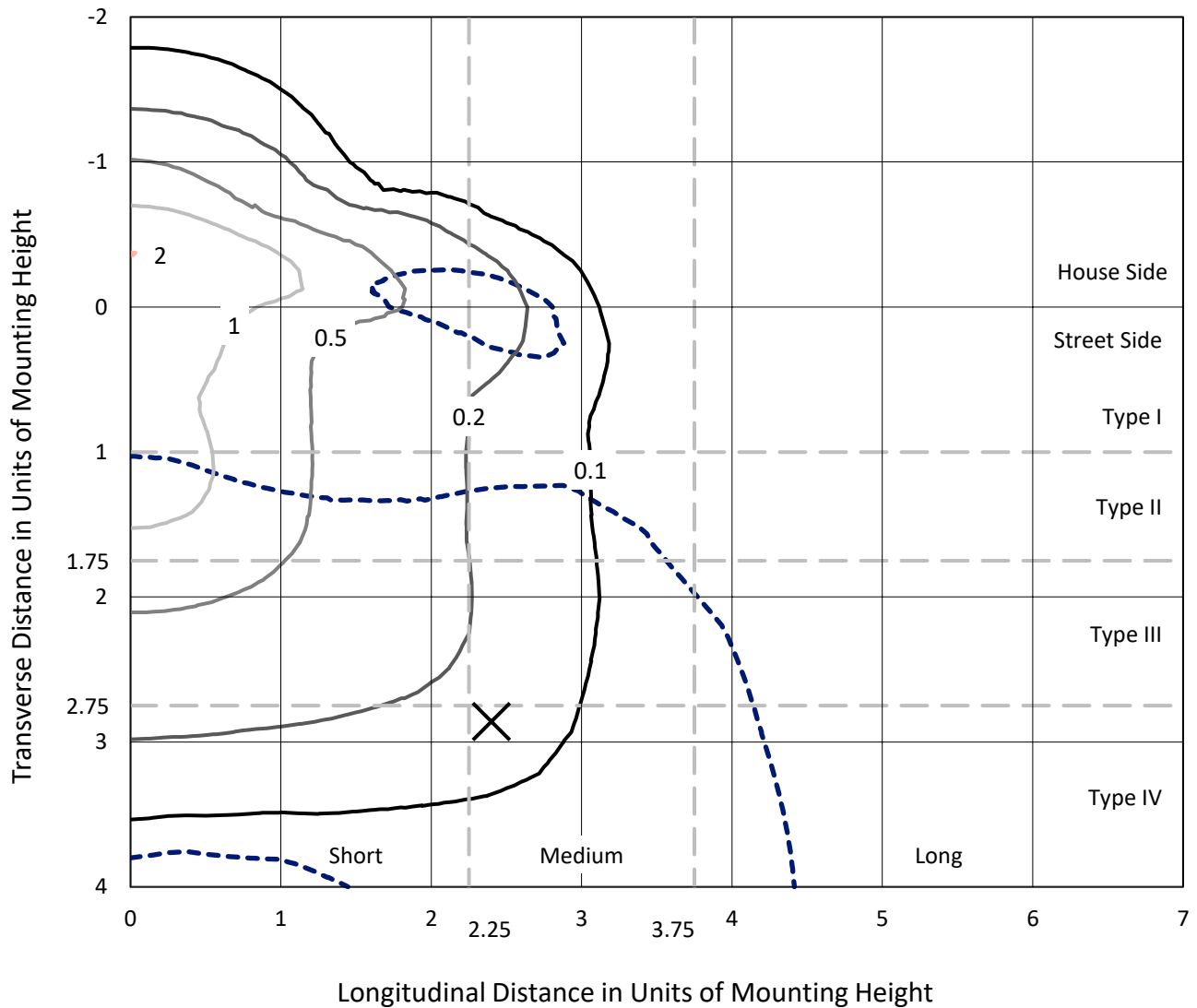
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

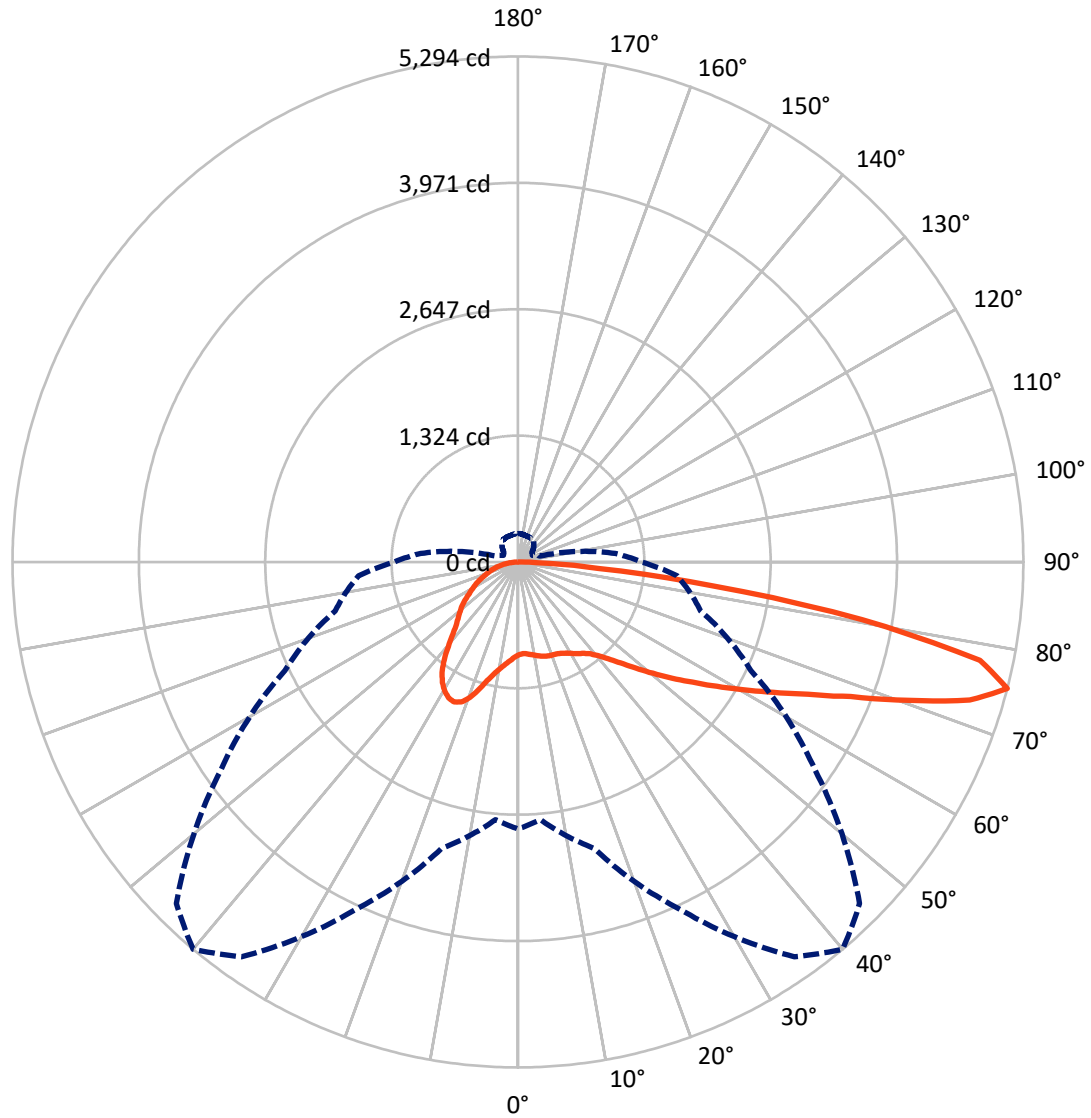
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	2635.4	0.0	2635.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5870.6	0.0	5870.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	8506.0	0.0	8506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	1.1
10°-20°	326.0	3.8
20°-30°	595.2	7.0
30°-40°	844.2	9.9
40°-50°	1139.9	13.4
50°-60°	1533.5	18.0
60°-70°	1946.3	22.9
70°-80°	1766.4	20.8
80°-90°	257.5	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°	8506.0	100.0
0°-180°	8506.0	100.0

Coefficient of Utilization



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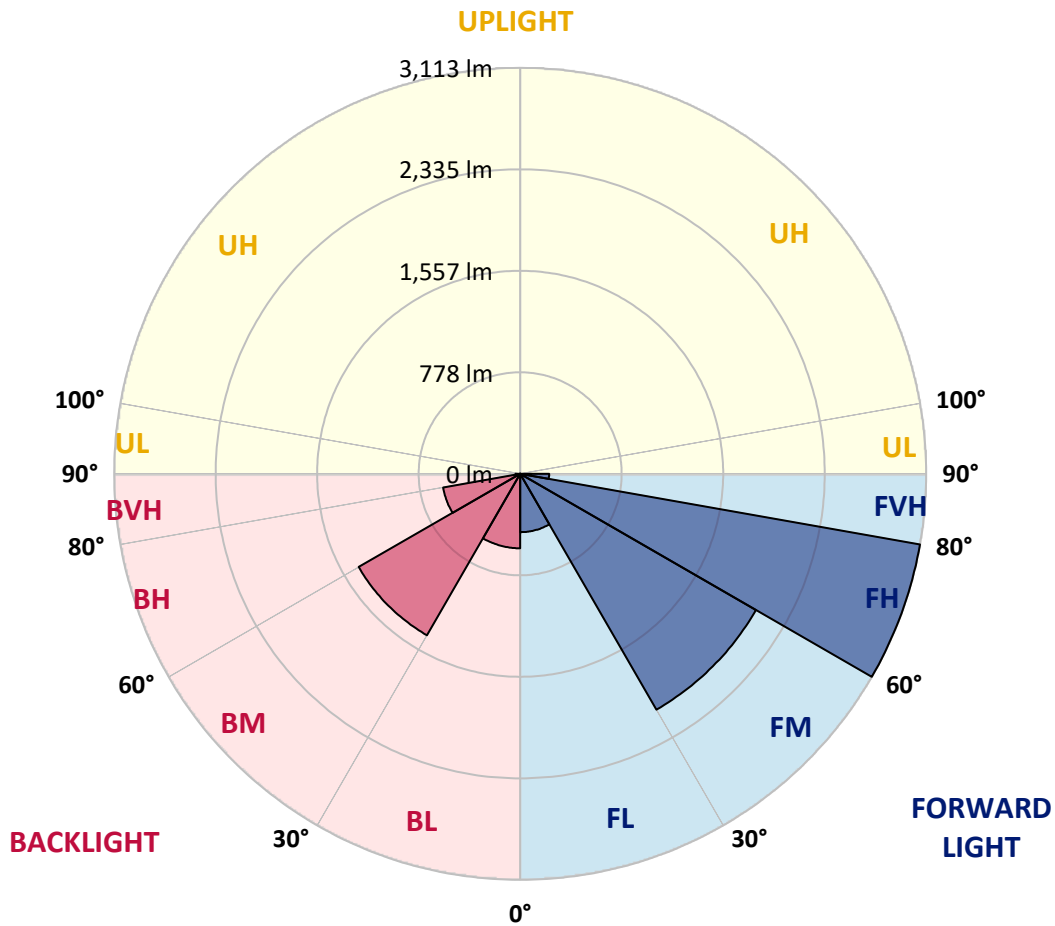
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.4	5.3			
FM (30°-60°)	2088.0	24.5			
FH (60°-80°)	3113.1	36.6			G2/5000
FVH (80°-90°)	222.0	2.6			G2/225
BL (0°-30°)	570.9	6.7	B2/1000		
BM (30°-60°)	1429.5	16.8	B2/2500		
BH (60°-80°)	599.6	7.0	B2/1000		G2/1000
BVH (80°-90°)	35.4	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-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7
2.5°	957.8	963.2	961.8	960.0	960.0	960.5	960.0	963.2	966.4	969.5
5°	967.7	973.1	970.4	968.2	966.4	965.9	964.6	964.1	965.9	970.0
7.5°	987.1	992.5	988.5	984.4	980.8	979.0	977.2	974.5	973.1	975.4
10°	1008.8	1014.2	1009.2	1002.0	996.1	993.9	992.1	989.4	987.6	988.9
12.5°	1030.4	1035.8	1029.1	1019.1	1011.5	1010.1	1007.9	1007.0	1006.5	1006.1
15°	1050.7	1055.2	1046.7	1034.9	1026.8	1024.6	1022.3	1023.7	1025.9	1028.6
17.5°	1066.5	1071.0	1058.4	1043.1	1035.4	1034.5	1033.1	1037.6	1044.0	1050.7
20°	1080.9	1085.5	1069.2	1048.5	1039.4	1039.4	1039.9	1049.4	1058.4	1068.3
22.5°	1101.2	1104.9	1085.0	1056.6	1043.5	1044.4	1048.0	1057.5	1068.8	1082.3
25°	1131.5	1134.2	1109.8	1071.9	1057.0	1059.7	1062.9	1067.4	1078.2	1094.0
27.5°	1180.2	1182.5	1150.4	1099.0	1076.4	1080.9	1085.5	1082.3	1087.3	1100.8
30°	1248.8	1250.1	1209.5	1141.4	1109.4	1111.6	1112.5	1099.4	1090.0	1100.8
32.5°	1330.0	1329.5	1281.3	1192.8	1146.8	1144.6	1136.9	1111.2	1089.1	1098.5
35°	1455.9	1450.9	1388.6	1265.0	1189.2	1175.2	1157.2	1124.3	1093.6	1096.3
37.5°	1664.3	1648.9	1562.8	1383.2	1252.4	1216.7	1190.1	1145.5	1103.5	1095.4
40°	1899.3	1879.9	1785.2	1545.2	1347.1	1289.8	1247.0	1175.7	1119.7	1099.4
42.5°	2178.1	2150.6	2048.7	1736.0	1467.1	1384.1	1319.6	1214.0	1143.7	1112.5
45°	2520.6	2484.0	2339.6	1951.2	1618.3	1507.7	1421.6	1272.2	1180.2	1137.8
47.5°	2866.6	2875.6	2670.3	2197.5	1799.6	1660.2	1549.2	1359.8	1233.4	1178.4
50°	3234.3	3240.6	2999.2	2470.5	2005.3	1832.6	1692.7	1457.7	1307.4	1236.1
52.5°	3521.2	3522.1	3297.9	2756.1	2219.6	2022.0	1847.4	1569.5	1393.1	1312.8
55°	3700.8	3698.5	3507.2	3026.3	2466.0	2221.0	2018.9	1696.8	1497.8	1403.1
57.5°	3831.1	3824.4	3651.6	3258.6	2728.5	2456.0	2212.9	1841.1	1621.4	1510.4
60°	3880.8	3876.7	3749.5	3459.4	3004.6	2715.9	2436.6	2002.6	1761.7	1637.2
62.5°	3899.7	3907.4	3845.6	3653.8	3300.1	3003.7	2682.5	2195.7	1919.6	1780.7
65°	3966.5	3980.5	3967.8	3908.3	3634.0	3340.7	3008.7	2425.4	2092.0	1934.5
67.5°	4098.7	4112.7	4118.1	4212.8	4041.8	3760.8	3415.6	2711.4	2293.6	2094.2
70°	4095.5	4091.5	4187.1	4455.1	4552.5	4342.3	3964.2	3063.3	2534.1	2226.9
72.5°	3727.8	3695.3	3921.4	4452.4	4977.5	4949.5	4634.2	3517.1	2741.6	2243.1
75°	2796.7	2710.0	3109.3	4012.5	5048.3	5294.2	5060.1	3798.7	2692.4	1981.9
77.5°	1196.0	1108.9	1579.5	2970.4	4518.2	4949.1	4669.4	3314.1	2149.3	1310.6
80°	313.1	312.6	477.3	1346.7	3072.8	3654.7	3206.3	2140.2	1228.0	468.3
82.5°	129.5	126.3	175.5	523.8	1501.4	2050.9	1673.8	954.6	443.5	126.8
85°	48.3	47.8	85.3	180.9	529.6	845.9	612.2	244.1	110.5	61.8
87.5°	13.5	13.1	18.5	62.7	129.0	195.8	104.7	40.2	31.1	24.4
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°
972.7	0°	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7
974.5	2.5°	975.8	978.1	982.1	985.3	989.4	993.9	1000.2	1004.3	1008.3	1011.0
976.7	5°	979.9	984.9	995.2	1005.6	1017.8	1029.1	1042.1	1051.6	1059.3	1061.5
984.9	7.5°	988.9	997.0	1014.6	1032.2	1051.6	1070.1	1089.1	1105.3	1118.4	1123.4
999.3	10°	1004.7	1015.5	1040.3	1065.2	1090.9	1119.3	1143.7	1167.1	1185.6	1193.3
1016.4	12.5°	1024.6	1038.1	1070.6	1104.9	1140.5	1179.7	1211.3	1240.2	1263.2	1273.6
1040.3	15°	1050.3	1067.9	1109.4	1155.4	1207.7	1262.3	1302.5	1334.5	1360.2	1372.8
1065.2	17.5°	1078.2	1101.7	1154.0	1223.5	1298.4	1370.1	1417.1	1440.5	1467.1	1479.3
1088.2	20°	1105.3	1134.2	1209.1	1310.1	1409.8	1486.1	1524.0	1530.3	1532.1	1533.4
1109.8	22.5°	1133.3	1172.1	1278.1	1419.3	1526.2	1579.0	1584.4	1557.4	1519.5	1501.9
1131.0	25°	1164.0	1215.4	1368.3	1539.8	1626.4	1632.7	1591.2	1525.3	1453.6	1420.7
1148.2	27.5°	1193.7	1265.5	1476.6	1654.8	1698.6	1643.1	1553.7	1460.4	1373.7	1339.0
1160.3	30°	1223.5	1322.8	1596.2	1755.4	1731.5	1617.4	1494.6	1390.4	1303.4	1266.8
1171.2	32.5°	1253.7	1389.5	1733.8	1828.0	1725.6	1562.8	1421.1	1311.9	1235.2	1196.9
1180.7	35°	1288.0	1471.6	1864.1	1867.7	1686.4	1482.5	1324.1	1218.1	1151.3	1120.6
1191.9	37.5°	1332.7	1575.9	1979.2	1877.7	1617.8	1364.7	1203.7	1107.1	1052.1	1038.1
1208.6	40°	1388.2	1701.3	2067.2	1861.9	1516.3	1221.7	1071.9	994.8	963.6	966.8
1231.2	42.5°	1460.4	1841.6	2129.0	1821.3	1375.1	1074.2	956.4	922.1	937.0	949.7
1265.0	45°	1554.2	1987.3	2167.3	1752.3	1215.4	949.2	888.3	896.4	907.7	909.1
1319.6	47.5°	1674.2	2134.8	2192.6	1648.0	1052.5	861.2	845.0	846.8	844.5	835.1
1401.3	50°	1824.0	2278.3	2215.1	1510.0	914.0	806.2	784.5	778.2	747.1	716.4
1510.0	52.5°	1994.5	2410.0	2224.6	1338.6	806.2	760.2	725.0	685.3	627.1	617.6
1646.7	55°	2184.0	2531.8	2200.2	1127.9	715.5	701.1	647.8	600.0	593.7	585.6
1826.7	57.5°	2410.5	2663.1	2150.6	892.8	622.6	632.1	580.2	585.6	574.3	561.7
2058.1	60°	2658.2	2798.9	2063.5	678.5	526.5	545.9	562.6	562.1	559.0	548.6
2302.2	62.5°	2881.0	2888.2	1892.1	519.7	442.1	479.1	524.7	524.2	521.5	515.7
2557.1	65°	3013.7	2874.7	1606.1	409.2	372.6	424.1	473.3	476.9	477.3	476.9
2748.8	67.5°	2990.2	2716.4	1213.6	325.7	315.4	368.1	422.3	427.2	430.8	431.7
2773.2	70°	2724.9	2368.5	791.3	259.9	264.4	319.0	374.0	379.0	382.1	385.7
2406.4	72.5°	2124.0	1741.4	453.0	210.2	219.7	276.6	326.2	332.0	333.8	340.6
1674.7	75°	1294.3	1024.1	244.5	165.6	180.5	236.4	278.8	285.6	288.7	296.9
822.4	77.5°	615.4	443.5	139.4	129.0	145.3	193.1	235.5	243.2	234.6	239.1
226.9	80°	208.0	164.7	88.0	98.3	111.0	150.7	188.6	196.2	178.2	177.3
75.3	82.5°	72.6	66.8	55.9	65.4	71.7	107.8	142.6	152.5	132.6	132.2
33.8	85°	28.4	27.1	31.1	35.6	42.9	66.3	93.8	98.8	81.7	65.9
9.9	87.5°	5.9	6.3	7.7	8.1	13.1	23.0	33.8	41.5	32.9	28.0
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°
972.7
1009.2
1062.5
1123.8
1193.7
1273.6
1371.9
1478.9
1537.1
1506.8
1425.6
1343.1
1270.9
1201.9
1127.4
1048.0
977.6
961.4
918.1
842.3
720.5
620.8
586.9
559.4
545.0
513.4
476.9
432.6
387.5
343.3
297.8
235.5
175.5
125.9
65.0
25.7
0.0

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