

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: P939292

Luminaire Tested: **GALN-SB1D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939292
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-SB1D-827-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8774 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

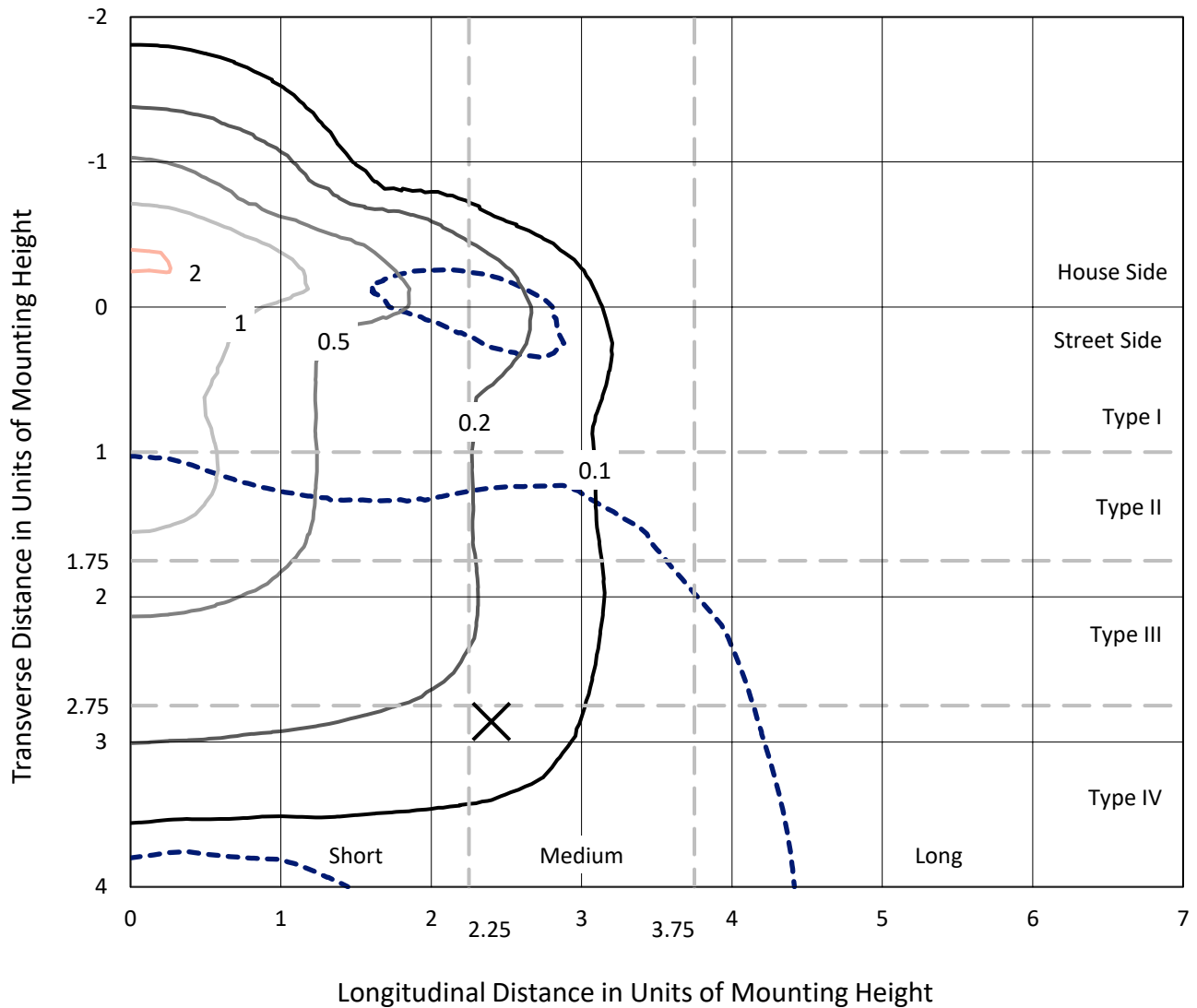
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

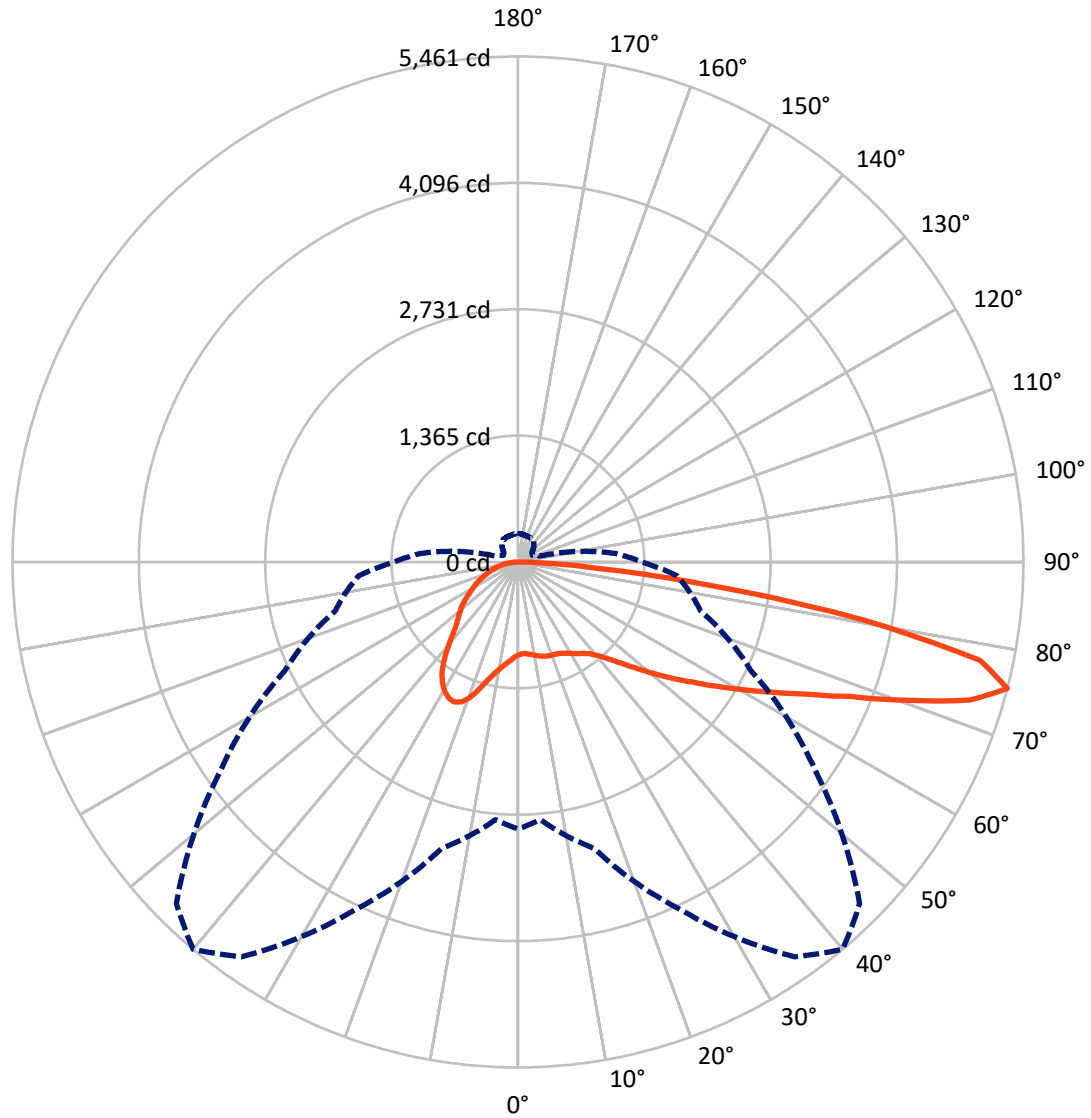
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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	2718.5	0.0	2718.5
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6055.5	0.0	6055.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	8774.0	0.0	8774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	1.1
10°-20°	336.3	3.8
20°-30°	614.0	7.0
30°-40°	870.8	9.9
40°-50°	1175.8	13.4
50°-60°	1581.8	18.0
60°-70°	2007.6	22.9
70°-80°	1822.0	20.8
80°-90°	265.6	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°	8774.0	100.0
0°-180°	8774.0	100.0

Coefficient of Utilization



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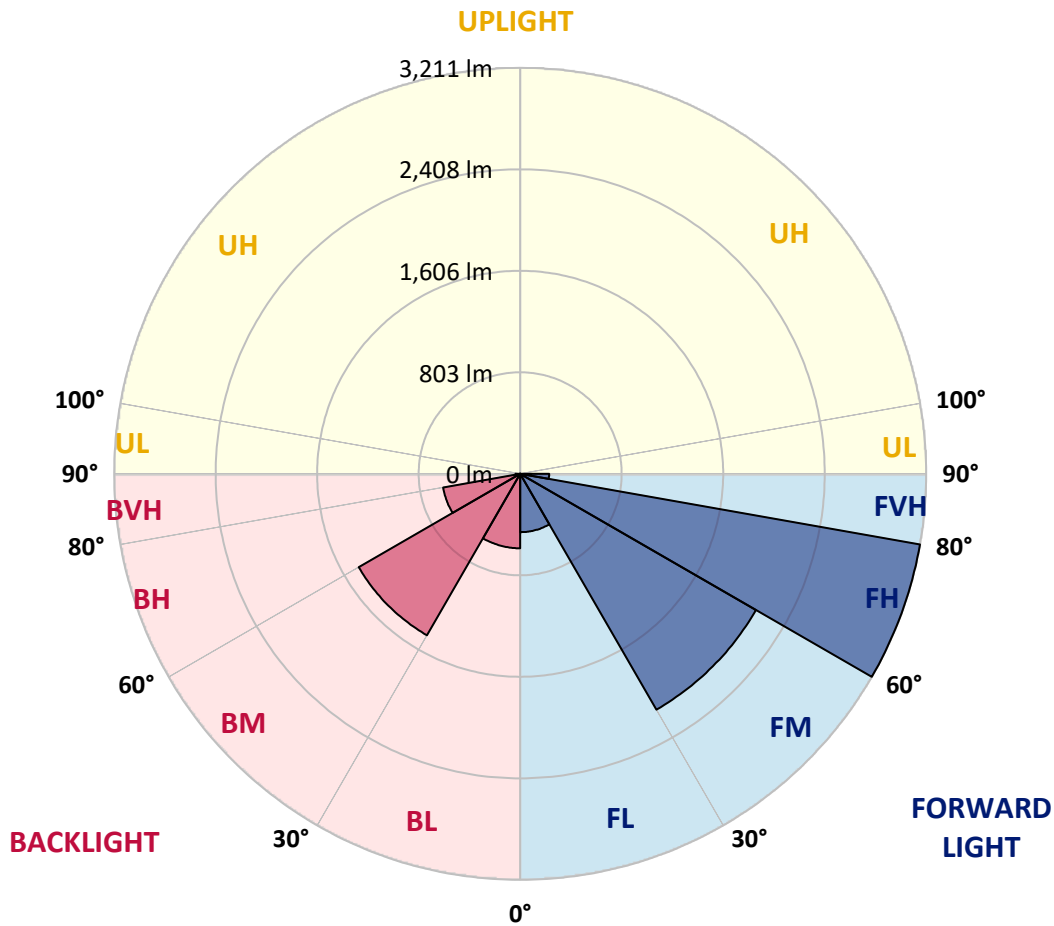
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.5	5.3			
FM (30°-60°)	2153.8	24.5			
FH (60°-80°)	3211.1	36.6			G2/5000
FVH (80°-90°)	229.0	2.6			G3/500
BL (0°-30°)	588.8	6.7	B2/1000		
BM (30°-60°)	1474.5	16.8	B2/2500		
BH (60°-80°)	618.5	7.0	B2/1000		G2/1000
BVH (80°-90°)	36.6	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°	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3
2.5°	988.0	993.5	992.1	990.3	990.3	990.8	990.3	993.5	996.8	1000.1
5°	998.2	1003.8	1001.0	998.7	996.8	996.3	994.9	994.5	996.3	1000.5
7.5°	1018.2	1023.8	1019.6	1015.4	1011.7	1009.8	1008.0	1005.2	1003.8	1006.1
10°	1040.5	1046.1	1041.0	1033.6	1027.5	1025.2	1023.3	1020.5	1018.7	1020.1
12.5°	1062.9	1068.5	1061.5	1051.3	1043.3	1041.9	1039.6	1038.7	1038.2	1037.8
15°	1083.8	1088.5	1079.6	1067.5	1059.2	1056.8	1054.5	1055.9	1058.2	1061.0
17.5°	1100.1	1104.8	1091.7	1075.9	1068.0	1067.1	1065.7	1070.3	1076.8	1083.8
20°	1115.0	1119.7	1102.9	1081.5	1072.2	1072.2	1072.7	1082.4	1091.7	1102.0
22.5°	1135.9	1139.7	1119.2	1089.9	1076.4	1077.3	1081.0	1090.8	1102.4	1116.4
25°	1167.1	1169.9	1144.8	1105.7	1090.3	1093.1	1096.4	1101.0	1112.2	1128.5
27.5°	1217.4	1219.7	1186.7	1133.6	1110.4	1115.0	1119.7	1116.4	1121.5	1135.5
30°	1288.1	1289.5	1247.6	1177.4	1144.3	1146.6	1147.6	1134.1	1124.3	1135.5
32.5°	1371.9	1371.4	1321.6	1230.4	1182.9	1180.6	1172.7	1146.2	1123.4	1133.2
35°	1501.7	1496.6	1432.4	1304.9	1226.7	1212.3	1193.7	1159.7	1128.0	1130.8
37.5°	1716.7	1700.9	1612.0	1426.8	1291.8	1255.1	1227.6	1181.6	1138.3	1129.9
40°	1959.2	1939.2	1841.4	1593.9	1389.6	1330.5	1286.3	1212.7	1155.0	1134.1
42.5°	2246.8	2218.4	2113.2	1790.7	1513.4	1427.7	1361.2	1252.3	1179.7	1147.6
45°	2600.0	2562.3	2413.4	2012.7	1669.3	1555.2	1466.4	1312.3	1217.4	1173.6
47.5°	2956.9	2966.2	2754.5	2266.8	1856.3	1712.5	1598.1	1402.6	1272.3	1215.5
50°	3336.2	3342.7	3093.7	2548.3	2068.5	1890.3	1746.0	1503.6	1348.6	1275.1
52.5°	3632.1	3633.1	3401.8	2842.9	2289.6	2085.7	1905.7	1619.0	1437.0	1354.2
55°	3817.4	3815.0	3617.7	3121.6	2543.7	2291.0	2082.5	1750.2	1545.0	1447.3
57.5°	3951.8	3944.9	3766.6	3361.3	2814.5	2533.4	2282.6	1899.1	1672.5	1558.0
60°	4003.0	3998.8	3867.6	3568.4	3099.3	2801.5	2513.4	2065.7	1817.2	1688.8
62.5°	4022.6	4030.5	3966.7	3769.0	3404.1	3098.4	2767.0	2264.9	1980.1	1836.8
65°	4091.5	4105.9	4092.9	4031.4	3748.5	3446.0	3103.5	2501.8	2157.9	1995.5
67.5°	4227.8	4242.2	4247.8	4345.5	4169.2	3879.3	3523.2	2796.8	2365.9	2160.2
70°	4224.5	4220.4	4319.0	4595.4	4696.0	4479.1	4089.1	3159.8	2613.9	2297.0
72.5°	3845.3	3811.8	4044.9	4592.6	5134.3	5105.5	4780.2	3628.0	2828.0	2313.8
75°	2884.8	2795.4	3207.3	4138.9	5207.4	5461.0	5219.5	3918.3	2777.3	2044.3
77.5°	1233.7	1143.9	1629.2	3063.9	4660.6	5105.0	4816.5	3418.5	2217.0	1351.9
80°	323.0	322.5	492.4	1389.1	3169.6	3769.9	3307.3	2207.7	1266.7	483.0
82.5°	133.6	130.3	181.0	540.3	1548.7	2115.5	1726.5	984.7	457.4	130.8
85°	49.8	49.3	88.0	186.6	546.3	872.6	631.5	251.8	114.0	63.8
87.5°	14.0	13.5	19.1	64.7	133.1	202.0	108.0	41.4	32.1	25.1
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°
1003.3	0°	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3	1003.3
1005.2	2.5°	1006.6	1008.9	1013.1	1016.3	1020.5	1025.2	1031.7	1035.9	1040.1	1042.9
1007.5	5°	1010.8	1015.9	1026.6	1037.3	1049.9	1061.5	1075.0	1084.8	1092.7	1095.0
1015.9	7.5°	1020.1	1028.4	1046.6	1064.7	1084.8	1103.8	1123.4	1140.1	1153.6	1158.7
1030.8	10°	1036.4	1047.5	1073.1	1098.7	1125.2	1154.6	1179.7	1203.9	1223.0	1230.9
1048.5	12.5°	1056.8	1070.8	1104.3	1139.7	1176.4	1216.9	1249.5	1279.3	1303.0	1313.7
1073.1	15°	1083.4	1101.5	1144.3	1191.8	1245.8	1302.1	1343.5	1376.5	1403.1	1416.1
1098.7	17.5°	1112.2	1136.4	1190.4	1262.1	1339.3	1413.3	1461.7	1485.9	1513.4	1525.9
1122.5	20°	1140.1	1169.9	1247.2	1351.4	1454.3	1532.9	1572.0	1578.5	1580.4	1581.8
1144.8	22.5°	1169.0	1209.0	1318.4	1464.0	1574.3	1628.8	1634.3	1606.4	1567.3	1549.2
1166.7	25°	1200.6	1253.7	1411.4	1588.3	1677.6	1684.1	1641.3	1573.4	1499.4	1465.4
1184.3	27.5°	1231.3	1305.3	1523.1	1706.9	1752.1	1694.8	1602.7	1506.4	1417.0	1381.2
1196.9	30°	1262.1	1364.4	1646.4	1810.7	1786.1	1668.3	1541.7	1434.2	1344.4	1306.7
1208.1	32.5°	1293.2	1433.3	1788.4	1885.6	1780.0	1612.0	1465.9	1353.3	1274.2	1234.6
1217.9	35°	1328.6	1518.0	1922.9	1926.6	1739.5	1529.2	1365.8	1256.5	1187.6	1156.0
1229.5	37.5°	1374.7	1625.5	2041.5	1936.8	1668.8	1407.7	1241.6	1142.0	1085.2	1070.8
1246.7	40°	1431.9	1754.9	2132.3	1920.5	1564.1	1260.2	1105.7	1026.1	994.0	997.3
1270.0	42.5°	1506.4	1899.6	2196.0	1878.7	1418.4	1108.0	986.6	951.2	966.6	979.6
1304.9	45°	1603.2	2049.9	2235.6	1807.5	1253.7	979.1	916.3	924.7	936.3	937.7
1361.2	47.5°	1727.0	2202.1	2261.7	1700.0	1085.7	888.4	871.6	873.5	871.2	861.4
1445.4	50°	1881.5	2350.1	2284.9	1557.6	942.8	831.6	809.3	802.7	770.6	739.0
1557.6	52.5°	2057.4	2486.0	2294.7	1380.7	831.6	784.1	747.8	706.9	646.9	637.1
1698.6	55°	2252.8	2611.6	2269.6	1163.4	738.1	723.2	668.3	618.9	612.4	604.0
1884.2	57.5°	2486.4	2747.0	2218.4	920.9	642.2	652.0	598.5	604.0	592.4	579.4
2123.0	60°	2741.9	2887.1	2128.6	699.9	543.1	563.1	580.3	579.8	576.6	565.9
2374.7	62.5°	2971.8	2979.2	1951.7	536.1	456.1	494.2	541.2	540.7	538.0	531.9
2637.7	65°	3108.6	2965.3	1656.7	422.1	384.4	437.4	488.2	491.9	492.4	491.9
2835.4	67.5°	3084.4	2801.9	1251.8	336.0	325.3	379.7	435.6	440.7	444.4	445.4
2860.6	70°	2810.8	2443.1	816.2	268.0	272.7	329.0	385.8	390.9	394.2	397.9
2482.2	72.5°	2190.9	1796.3	467.2	216.9	226.6	285.3	336.5	342.5	344.4	351.3
1727.4	75°	1335.1	1056.4	252.2	170.8	186.1	243.8	287.6	294.6	297.8	306.2
848.4	77.5°	634.8	457.4	143.8	133.1	149.8	199.2	242.9	250.8	242.0	246.6
234.1	80°	214.5	169.9	90.7	101.4	114.5	155.4	194.5	202.4	183.8	182.9
77.7	82.5°	74.9	68.9	57.7	67.5	74.0	111.2	147.1	157.3	136.8	136.4
34.9	85°	29.3	27.9	32.1	36.8	44.2	68.4	96.8	101.9	84.2	67.9
10.2	87.5°	6.0	6.5	7.9	8.4	13.5	23.7	34.9	42.8	34.0	28.9
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>
1003.3
1041.0
1095.9
1159.2
1231.3
1313.7
1415.2
1525.5
1585.5
1554.3
1470.5
1385.4
1310.9
1239.7
1162.9
1081.0
1008.4
991.7
947.0
868.8
743.2
640.3
605.4
577.0
562.2
529.6
491.9
446.3
399.7
354.1
<i>307.1</i>
242.9
181.0
129.8
67.0
26.5
0.0

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