

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: P945783

Luminaire Tested: **GALN-SB1C-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7003 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

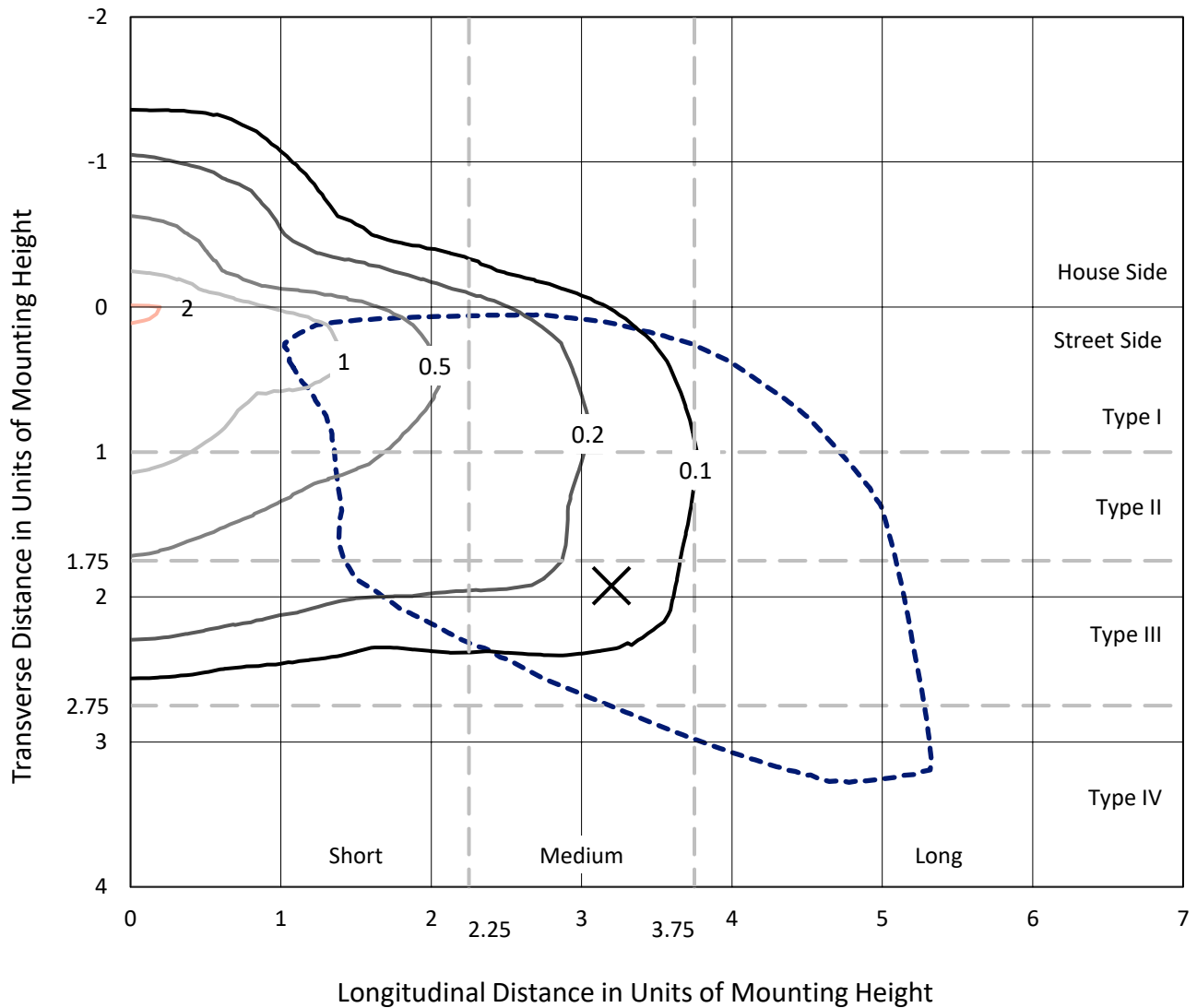
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

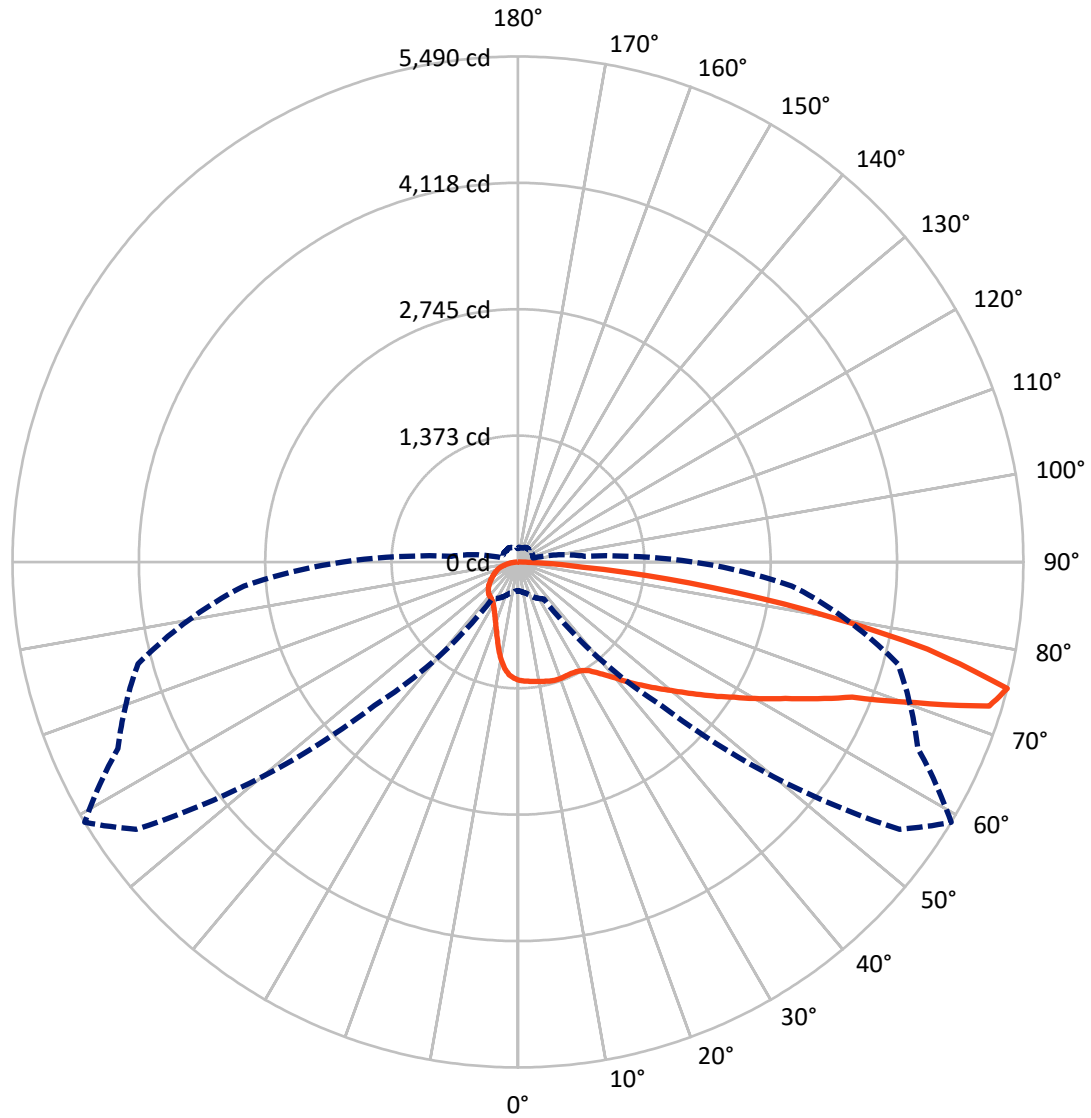
✕ Max cd
 - - - 1/2 Max cd



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 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1313.5	0.0	1313.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5689.5	0.0	5689.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	7003.0	0.0	7003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.6
10°-20°	294.6	4.2
20°-30°	447.5	6.4
30°-40°	665.2	9.5
40°-50°	989.2	14.1
50°-60°	1342.7	19.2
60°-70°	1639.3	23.4
70°-80°	1286.5	18.4
80°-90°	222.9	3.2
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°	7003.0	100.0
0°-180°	7003.0	100.0

Coefficient of Utilization



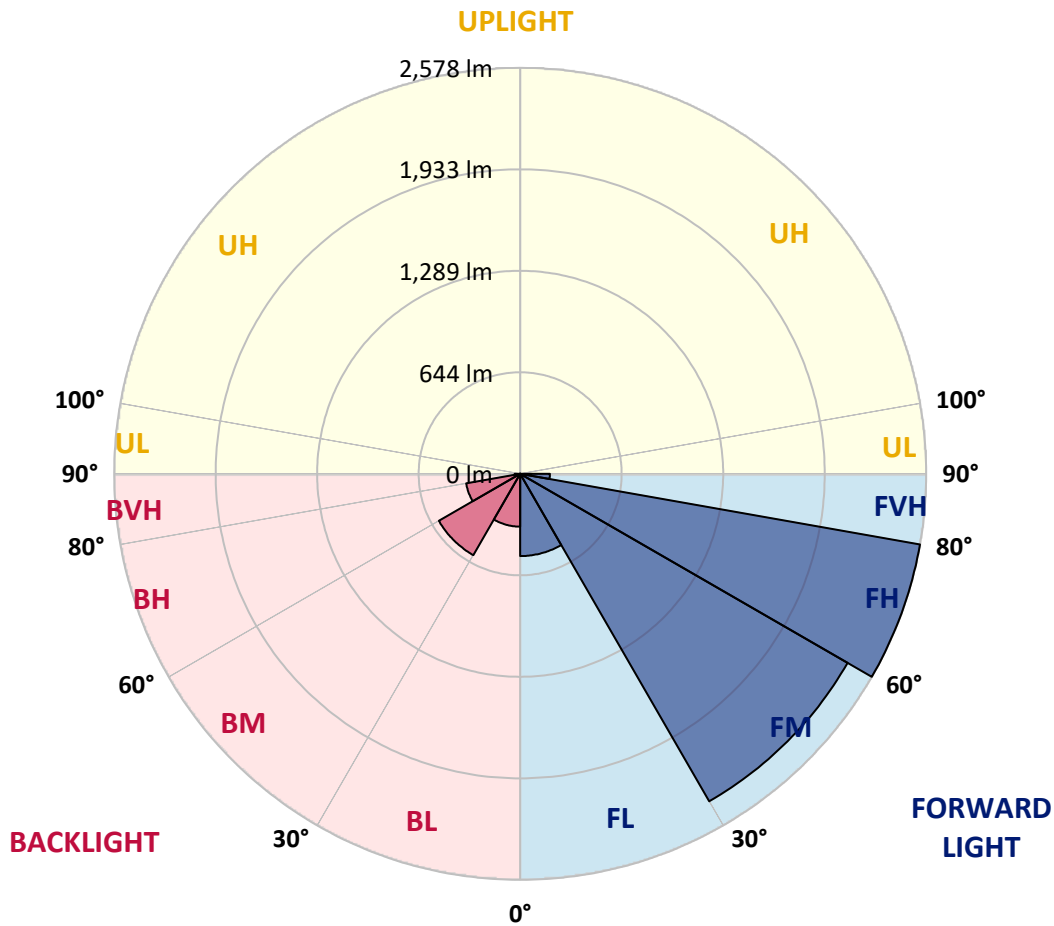
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.1	7.5			
FM (30°-60°)	2400.9	34.3			
FH (60°-80°)	2577.7	36.8			G2/5000
FVH (80°-90°)	188.7	2.7			G2/225
BL (0°-30°)	335.2	4.8	B1/500		
BM (30°-60°)	596.2	8.5	B1/1000		
BH (60°-80°)	348.0	5.0	B1/500		G1/500
BVH (80°-90°)	34.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4
2.5°	1296.3	1291.8	1296.3	1294.4	1293.7	1292.2	1292.5	1295.2	1293.7	1295.6
5°	1287.6	1285.0	1289.5	1288.4	1293.3	1294.0	1298.9	1302.0	1303.8	1304.2
7.5°	1273.3	1270.7	1277.1	1282.4	1292.9	1295.9	1306.1	1311.0	1313.6	1318.2
10°	1221.0	1219.8	1235.7	1255.6	1280.5	1295.9	1311.4	1319.7	1323.8	1335.9
12.5°	1128.3	1129.8	1150.5	1188.9	1238.7	1288.4	1317.4	1329.5	1335.9	1350.9
15°	1039.8	1039.4	1062.0	1103.1	1172.7	1255.2	1320.4	1341.1	1352.1	1374.3
17.5°	988.5	987.0	1002.8	1034.1	1098.9	1204.4	1312.9	1347.5	1370.9	1398.8
20°	979.1	976.1	984.4	999.8	1045.8	1148.6	1293.3	1347.5	1386.0	1422.1
22.5°	1013.4	1008.5	1005.1	1003.2	1023.6	1102.7	1271.1	1343.0	1408.2	1455.7
25°	1082.3	1074.8	1057.5	1040.5	1034.5	1082.0	1251.5	1341.9	1441.3	1500.9
27.5°	1193.8	1184.4	1149.4	1108.7	1072.2	1092.5	1242.8	1348.7	1477.9	1548.7
30°	1332.1	1321.9	1277.9	1215.3	1149.8	1131.7	1253.7	1368.6	1524.6	1612.4
32.5°	1456.0	1444.7	1407.1	1343.4	1254.9	1199.5	1288.4	1406.7	1598.1	1700.9
35°	1566.0	1552.9	1519.0	1460.2	1383.7	1294.8	1350.9	1474.1	1702.4	1844.8
37.5°	1673.8	1658.3	1621.4	1559.3	1505.8	1421.8	1437.2	1560.8	1841.1	2019.6
40°	1794.3	1772.1	1727.3	1665.9	1613.9	1570.6	1550.6	1667.0	1981.9	2214.8
42.5°	1911.1	1890.0	1836.5	1784.2	1719.0	1706.6	1682.1	1791.3	2136.0	2429.1
45°	2037.0	2011.7	1946.9	1880.6	1839.5	1797.0	1809.4	1915.6	2287.1	2647.6
47.5°	2154.9	2126.6	2050.1	1976.3	1953.7	1873.1	1926.2	2052.4	2444.2	2869.1
50°	2218.5	2190.7	2127.0	2060.3	2042.6	1966.9	2052.8	2202.7	2608.8	3089.9
52.5°	2271.7	2241.5	2158.3	2121.3	2116.1	2069.0	2208.7	2374.5	2773.4	3285.0
55°	2328.2	2294.6	2188.4	2155.2	2179.4	2183.5	2393.7	2569.3	2947.5	3475.3
57.5°	2393.3	2350.8	2217.4	2183.9	2241.1	2317.6	2606.2	2771.2	3118.5	3651.6
60°	2454.7	2411.8	2273.2	2229.5	2307.8	2473.2	2849.9	3015.7	3312.2	3808.7
62.5°	2466.8	2431.4	2317.6	2317.2	2398.2	2654.8	3138.5	3262.4	3481.3	3963.9
65°	2258.1	2235.9	2168.4	2313.8	2527.8	2916.2	3459.8	3578.1	3696.4	4099.5
67.5°	1718.6	1721.6	1716.7	1997.4	2423.1	3291.8	3925.1	3916.1	3962.0	4251.7
70°	785.8	803.6	918.8	1378.8	1941.3	3335.1	4694.4	4577.2	4295.4	4448.7
72.5°	424.6	438.1	485.2	667.9	1167.1	2965.2	5269.2	5352.5	4738.8	4581.4
75°	311.6	319.1	351.9	424.6	490.1	2203.8	5063.2	5490.4	4794.2	4272.1
77.5°	233.2	236.6	263.3	336.4	250.9	1161.8	4045.6	4547.1	4104.0	3509.9
80°	169.1	172.9	192.9	252.4	175.9	424.9	2778.0	3191.6	2810.7	2237.4
82.5°	116.8	118.3	127.0	171.8	122.8	165.0	1576.2	1871.6	1569.1	785.1
85°	70.4	72.3	76.1	100.2	69.7	78.4	680.4	703.7	469.0	187.6
87.5°	29.0	30.9	33.9	42.2	27.5	21.9	112.3	140.9	87.8	55.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945783
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1285.4	0°	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4
1289.2	2.5°	1287.3	1284.6	1277.5	1267.7	1258.6	1247.3	1242.4	1238.3	1234.5	1227.4
1299.3	5°	1295.2	1288.0	1268.8	1243.9	1215.7	1184.8	1154.7	1133.9	1116.2	1103.1
1311.0	7.5°	1307.2	1293.7	1258.6	1207.8	1143.0	1076.7	1016.8	974.2	942.2	930.5
1327.6	10°	1319.7	1303.5	1242.4	1152.8	1040.9	938.8	859.3	815.6	790.0	781.7
1347.2	12.5°	1334.4	1310.6	1217.2	1076.3	926.7	814.9	745.5	719.9	706.7	702.2
1371.3	15°	1355.8	1316.7	1179.1	980.6	817.9	724.4	679.6	661.9	655.1	654.7
1396.1	17.5°	1372.0	1317.8	1120.0	878.1	734.2	669.8	632.9	626.1	630.6	637.4
1420.6	20°	1390.1	1307.6	1042.4	784.7	675.5	622.0	606.5	611.0	622.0	631.8
1453.0	22.5°	1402.9	1289.2	948.6	712.0	624.6	594.5	593.7	603.1	609.2	614.1
1491.1	25°	1414.2	1257.9	849.1	651.0	582.8	577.9	586.2	583.2	579.0	583.2
1529.1	27.5°	1422.5	1208.5	760.2	597.5	553.4	566.6	561.7	554.9	554.5	556.8
1574.0	30°	1419.9	1142.6	687.1	546.6	532.7	545.5	533.8	532.7	531.6	532.7
1641.4	32.5°	1419.9	1067.6	631.0	511.6	519.5	514.6	513.5	510.8	506.3	505.9
1732.9	35°	1427.8	992.7	582.8	492.8	508.6	496.9	497.7	491.2	481.8	477.3
1854.2	37.5°	1444.0	932.4	534.9	483.7	489.4	489.0	486.0	475.0	458.5	444.2
2005.7	40°	1483.2	914.7	502.2	479.6	480.3	484.8	476.9	455.8	418.2	394.8
2159.4	42.5°	1544.6	944.4	495.0	469.4	474.3	478.8	463.4	414.4	387.6	373.7
2320.6	45°	1622.6	996.4	510.5	454.7	460.0	467.9	421.9	398.6	386.5	386.9
2480.4	47.5°	1721.3	1051.1	539.1	441.9	439.3	443.8	394.4	380.1	363.5	367.7
2633.7	50°	1835.4	1106.4	566.2	424.6	416.3	401.6	376.7	363.2	342.1	332.3
2781.7	52.5°	1959.0	1159.9	577.1	403.5	391.4	374.5	364.7	348.1	322.5	306.3
2921.5	55°	2076.1	1208.5	565.1	378.2	366.6	353.4	351.9	341.7	314.2	291.6
3045.8	57.5°	2186.9	1249.2	534.9	352.6	341.3	333.4	343.6	338.7	304.0	275.0
3163.4	60°	2280.7	1277.1	491.2	326.6	318.7	314.6	330.0	328.5	289.7	257.3
3268.8	62.5°	2355.3	1288.0	443.0	301.8	299.9	292.3	311.2	311.2	271.6	240.0
3361.5	65°	2413.7	1277.5	394.1	277.3	281.0	269.7	288.2	285.9	252.4	224.5
3468.1	67.5°	2465.3	1242.8	339.8	253.2	261.8	247.5	264.1	258.8	231.3	209.1
3560.4	70°	2488.3	1162.2	278.0	229.0	239.6	225.7	240.0	230.2	207.6	192.5
3459.1	72.5°	2303.7	965.9	218.9	203.8	212.8	201.5	214.0	202.7	182.0	175.2
2987.1	75°	1905.9	724.8	168.4	176.3	183.1	174.4	182.7	174.4	155.6	160.5
2206.5	77.5°	1384.1	489.4	128.8	147.3	150.3	145.8	153.0	143.5	126.6	125.4
1099.7	80°	688.3	286.7	101.0	116.4	115.3	112.3	120.6	116.0	101.7	107.7
296.9	82.5°	199.3	122.8	73.5	81.7	79.5	80.2	86.3	88.5	132.6	131.5
92.3	85°	62.5	48.2	44.1	45.6	43.3	44.5	50.9	101.0	93.4	54.6
28.6	87.5°	16.2	16.6	10.9	11.7	12.1	14.3	16.2	61.4	29.4	19.2
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>
1285.4
1224.0
1092.1
910.2
768.9
703.3
656.3
640.1
635.2
616.7
585.8
560.6
536.8
510.8
481.8
449.1
397.8
373.7
388.8
378.2
334.9
305.9
291.6
273.5
256.2
238.8
223.0
207.6
189.5
169.5
146.5
119.8
106.6
134.5
59.1
20.3
0.0

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