

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: P946875

Luminaire Tested: **GALN-SB2B-927-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946875  
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-SB2B-927-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

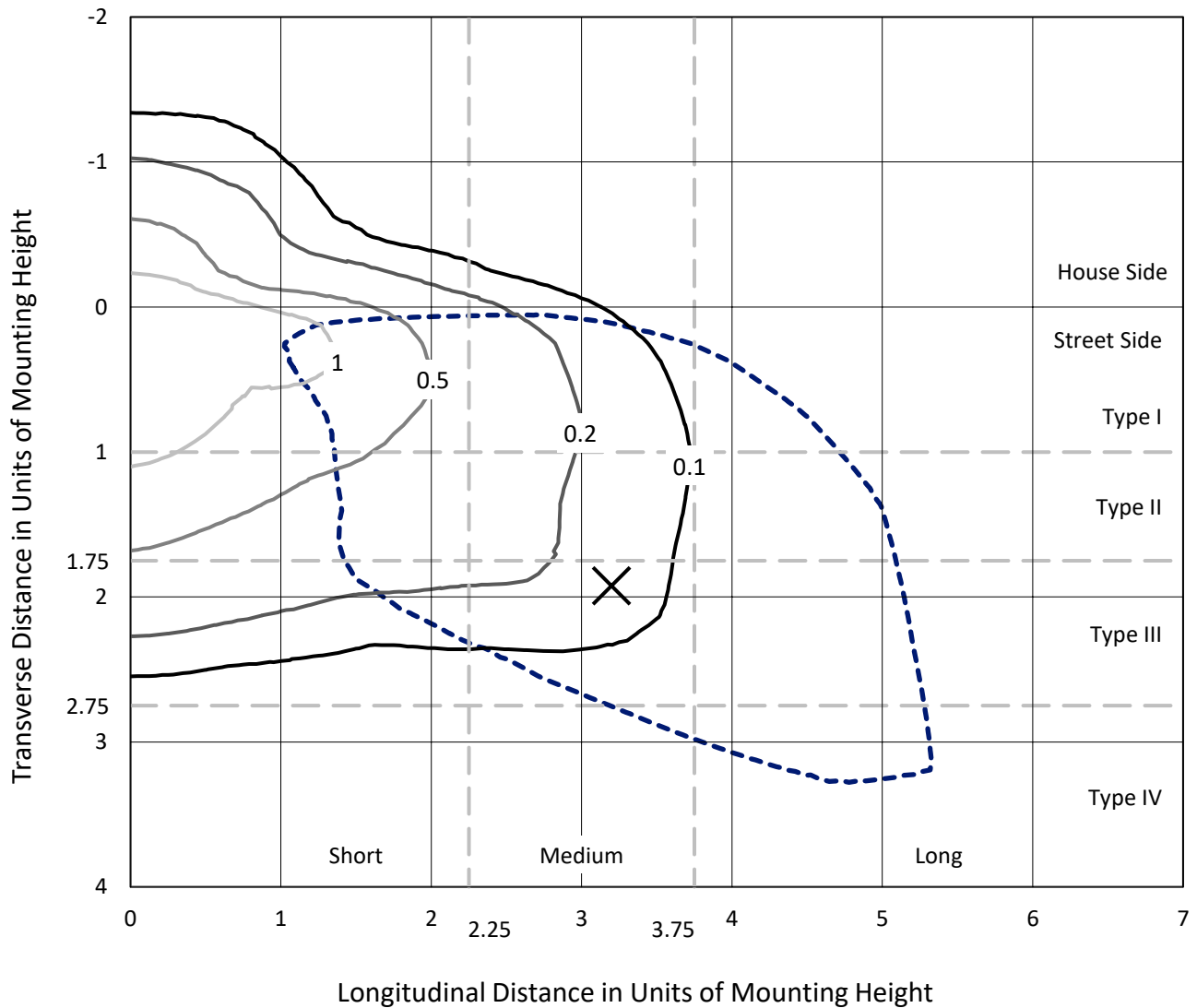
Lumens per Lamp: N/A  
Luminaire Lumens: 6699 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

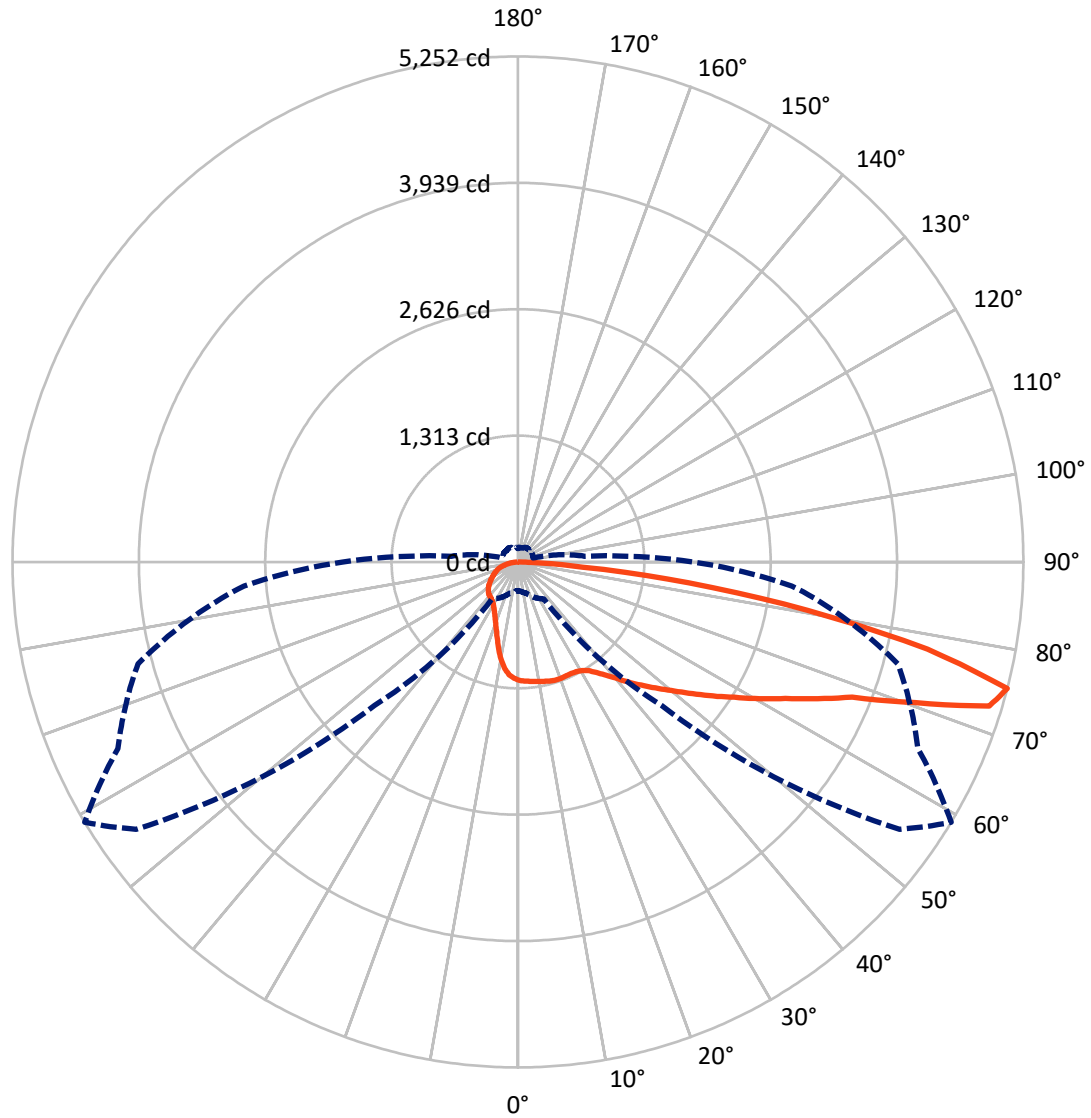
✕ Max cd  
 - - - 1/2 Max cd



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1256.5	0.0	1256.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5442.6	0.0	5442.6
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6699.0	0.0	6699.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.3	1.6
10°-20°	281.8	4.2
20°-30°	428.1	6.4
30°-40°	636.3	9.5
40°-50°	946.3	14.1
50°-60°	1284.4	19.2
60°-70°	1568.1	23.4
70°-80°	1230.6	18.4
80°-90°	213.2	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°	6699.0	100.0
0°-180°	6699.0	100.0

**Coefficient of Utilization**



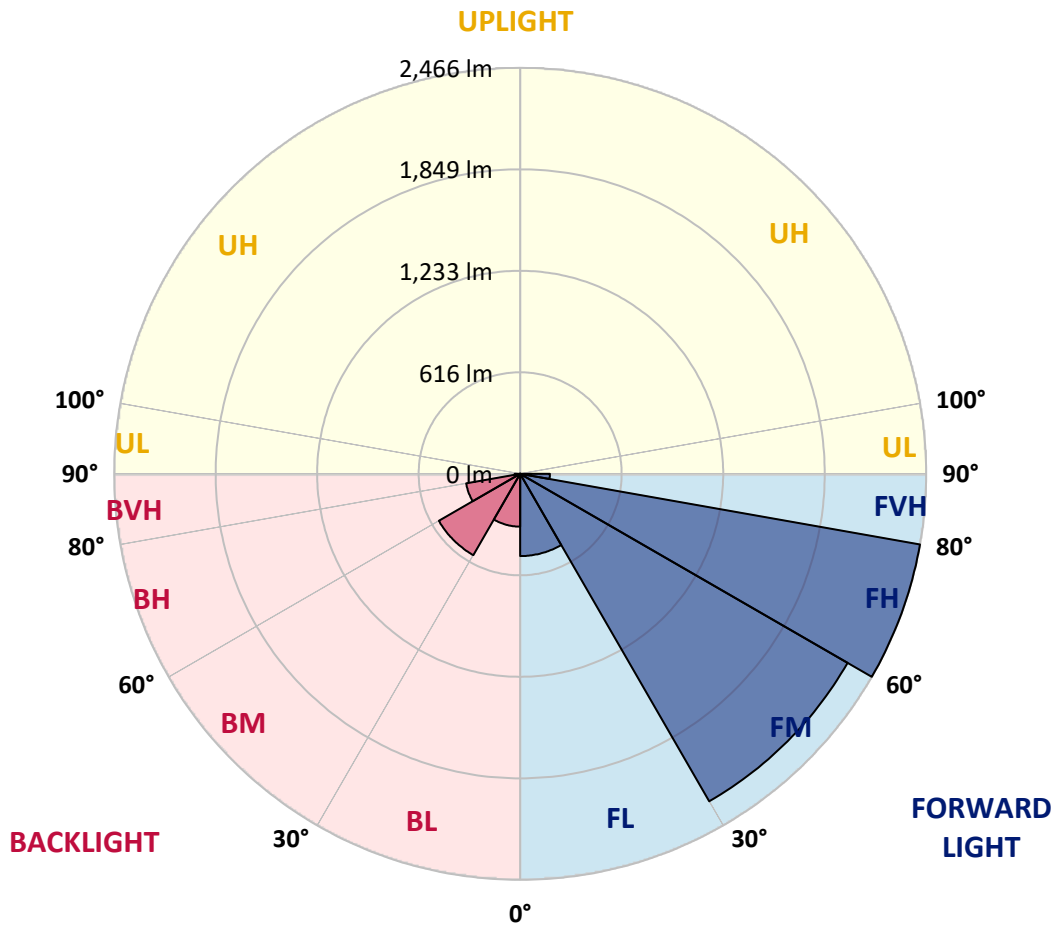
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	499.5	7.5			
FM	(30°-60°)	2296.7	34.3			
FH	(60°-80°)	2465.8	36.8			G2/5000
FVH	(80°-90°)	180.5	2.7			G2/225
BL	(0°-30°)	320.6	4.8	B1/500		
BM	(30°-60°)	570.3	8.5	B1/1000		
BH	(60°-80°)	332.9	5.0	B1/500		G1/500
BVH	(80°-90°)	32.6	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°	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6
2.5°	1240.0	1235.7	1240.0	1238.2	1237.5	1236.1	1236.4	1239.0	1237.5	1239.3
5°	1231.7	1229.2	1233.6	1232.5	1237.2	1237.9	1242.6	1245.4	1247.2	1247.6
7.5°	1218.1	1215.5	1221.7	1226.7	1236.8	1239.7	1249.4	1254.1	1256.6	1260.9
10°	1168.0	1166.9	1182.0	1201.1	1224.9	1239.7	1254.5	1262.4	1266.3	1277.9
12.5°	1079.3	1080.8	1100.6	1137.3	1184.9	1232.5	1260.2	1271.7	1277.9	1292.3
15°	994.6	994.3	1015.9	1055.2	1121.8	1200.8	1263.1	1282.9	1293.4	1314.6
17.5°	945.6	944.2	959.3	989.2	1051.2	1152.1	1255.9	1289.0	1311.4	1338.1
20°	936.6	933.7	941.6	956.4	1000.4	1098.8	1237.2	1289.0	1325.8	1360.4
22.5°	969.4	964.7	961.5	959.7	979.1	1054.8	1215.9	1284.7	1347.1	1392.5
25°	1035.3	1028.1	1011.6	995.3	989.6	1035.0	1197.2	1283.6	1378.8	1435.7
27.5°	1142.0	1133.0	1099.5	1060.6	1025.6	1045.1	1188.9	1290.1	1413.7	1481.5
30°	1274.3	1264.5	1222.4	1162.6	1099.9	1082.6	1199.3	1309.2	1458.4	1542.4
32.5°	1392.8	1382.0	1346.0	1285.1	1200.4	1147.4	1232.5	1345.6	1528.7	1627.1
35°	1498.1	1485.5	1453.0	1396.8	1323.6	1238.6	1292.3	1410.1	1628.5	1764.7
37.5°	1601.1	1586.4	1551.0	1491.6	1440.4	1360.0	1374.8	1493.0	1761.1	1931.9
40°	1716.4	1695.2	1652.3	1593.6	1543.8	1502.4	1483.3	1594.6	1895.9	2118.6
42.5°	1828.2	1808.0	1756.8	1706.7	1644.4	1632.5	1609.1	1713.6	2043.3	2323.7
45°	1948.5	1924.4	1862.4	1799.0	1759.7	1719.0	1730.9	1832.5	2187.8	2532.7
47.5°	2061.3	2034.3	1961.1	1890.5	1868.9	1791.8	1842.6	1963.3	2338.1	2744.6
50°	2122.2	2095.6	2034.7	1970.9	1953.9	1881.5	1963.7	2107.1	2495.6	2955.8
52.5°	2173.0	2144.2	2064.6	2029.3	2024.2	1979.2	2112.9	2271.4	2653.1	3142.4
55°	2227.1	2195.0	2093.4	2061.7	2084.7	2088.7	2289.8	2457.7	2819.5	3324.4
57.5°	2289.4	2248.7	2121.1	2089.1	2143.8	2217.0	2493.0	2650.9	2983.2	3493.1
60°	2348.2	2307.1	2174.5	2132.7	2207.6	2365.8	2726.2	2884.8	3168.4	3643.4
62.5°	2359.7	2325.8	2217.0	2216.6	2294.1	2539.5	3002.3	3120.8	3330.2	3791.8
65°	2160.1	2138.8	2074.3	2213.4	2418.1	2789.6	3309.6	3422.8	3536.0	3921.6
67.5°	1644.0	1646.9	1642.2	1910.7	2317.9	3148.9	3754.7	3746.1	3790.0	4067.1
70°	751.7	768.7	878.9	1319.0	1857.0	3190.4	4490.6	4378.5	4109.0	4255.6
72.5°	406.1	419.1	464.2	638.9	1116.4	2836.5	5040.5	5120.2	4533.1	4382.5
75°	298.0	305.2	336.6	406.1	468.8	2108.2	4843.4	5252.0	4586.1	4086.6
77.5°	223.1	226.3	251.9	321.8	240.0	1111.4	3870.0	4349.7	3925.9	3357.6
80°	161.8	165.4	184.5	241.4	168.3	406.5	2657.4	3053.1	2688.7	2140.2
82.5°	111.7	113.2	121.4	164.3	117.5	157.8	1507.8	1790.3	1500.9	751.0
85°	67.4	69.2	72.8	95.9	66.7	75.0	650.8	673.2	448.7	179.5
87.5°	27.7	29.6	32.4	40.4	26.3	20.9	107.4	134.8	84.0	52.6
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°
1229.6	0°	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6	1229.6
1233.2	2.5°	1231.4	1228.9	1222.0	1212.6	1204.0	1193.2	1188.5	1184.5	1180.9	1174.1
1242.9	5°	1239.0	1232.1	1213.7	1189.9	1162.9	1133.4	1104.5	1084.7	1067.8	1055.2
1254.1	7.5°	1250.5	1237.5	1204.0	1155.4	1093.4	1029.9	972.6	931.9	901.3	890.1
1269.9	10°	1262.4	1246.9	1188.5	1102.7	995.7	898.0	822.0	780.2	755.7	747.8
1288.7	12.5°	1276.4	1253.7	1164.4	1029.6	886.5	779.5	713.2	688.7	676.1	671.7
1311.8	15°	1297.0	1259.5	1128.0	938.0	782.4	693.0	650.1	633.2	626.7	626.3
1335.5	17.5°	1312.5	1260.6	1071.4	840.0	702.4	640.7	605.4	598.9	603.3	609.7
1359.0	20°	1329.8	1250.8	997.1	750.7	646.1	595.0	580.2	584.5	595.0	604.3
1390.0	22.5°	1342.0	1233.2	907.4	681.1	597.5	568.7	567.9	577.0	582.7	587.4
1426.3	25°	1352.8	1203.3	812.3	622.7	557.5	552.8	560.7	557.9	553.9	557.9
1462.7	27.5°	1360.8	1156.1	727.2	571.5	529.4	542.0	537.3	530.8	530.5	532.6
1505.6	30°	1358.2	1093.0	657.3	522.9	509.6	521.8	510.6	509.6	508.5	509.6
1570.1	32.5°	1358.2	1021.3	603.6	489.4	497.0	492.3	491.2	488.7	484.3	484.0
1657.7	35°	1365.8	949.6	557.5	471.4	486.5	475.3	476.1	469.9	460.9	456.6
1773.7	37.5°	1381.3	891.9	511.7	462.7	468.1	467.8	464.9	454.4	438.6	424.9
1918.6	40°	1418.8	875.0	480.4	458.8	459.5	463.8	456.2	436.0	400.0	377.7
2065.6	42.5°	1477.5	903.5	473.5	449.0	453.7	458.0	443.3	396.4	370.8	357.5
2219.9	45°	1552.1	953.2	488.3	435.0	440.0	447.6	403.6	381.3	369.7	370.1
2372.7	47.5°	1646.5	1005.4	515.7	422.7	420.2	424.5	377.3	363.6	347.8	351.7
2519.4	50°	1755.7	1058.4	541.6	406.1	398.2	384.2	360.4	347.4	327.2	317.8
2661.0	52.5°	1873.9	1109.6	552.1	386.0	374.4	358.2	348.8	333.0	308.5	293.0
2794.7	55°	1986.0	1156.1	540.6	361.8	350.6	338.0	336.6	326.9	300.5	278.9
2913.6	57.5°	2092.0	1195.0	511.7	337.3	326.5	318.9	328.7	324.0	290.8	263.1
3026.0	60°	2181.7	1221.7	469.9	312.4	304.9	300.9	315.7	314.2	277.1	246.1
3126.9	62.5°	2253.0	1232.1	423.8	288.7	286.9	279.6	297.7	297.7	259.8	229.6
3215.6	65°	2308.9	1222.0	376.9	265.2	268.8	258.0	275.7	273.5	241.4	214.8
3317.6	67.5°	2358.3	1188.9	325.1	242.2	250.5	236.8	252.6	247.6	221.3	200.0
3405.9	70°	2380.3	1111.7	266.0	219.1	229.2	215.9	229.6	220.2	198.6	184.1
3308.9	72.5°	2203.7	924.0	209.4	195.0	203.6	192.8	204.7	193.9	174.1	167.6
2857.4	75°	1823.1	693.4	161.1	168.7	175.1	166.9	174.8	166.9	148.8	153.5
2110.7	77.5°	1324.0	468.1	123.2	140.9	143.8	139.5	146.3	137.3	121.1	120.0
1051.9	80°	658.4	274.2	96.6	111.4	110.3	107.4	115.3	111.0	97.3	103.1
284.0	82.5°	190.6	117.5	70.3	78.2	76.0	76.8	82.5	84.7	126.9	125.8
88.3	85°	59.8	46.1	42.2	43.6	41.4	42.5	48.7	96.6	89.4	52.3
27.4	87.5°	15.5	15.9	10.5	11.2	11.5	13.7	15.5	58.7	28.1	18.4
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>
1229.6
1170.8
1044.7
870.7
735.5
672.8
627.8
612.3
607.6
589.9
560.4
536.2
513.5
488.7
460.9
429.6
380.6
357.5
371.9
361.8
320.4
292.6
278.9
261.6
245.1
228.5
213.3
198.6
181.3
162.2
140.2
114.6
102.0
128.7
56.6
19.5
0.0

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