

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: P946873

Luminaire Tested: **GALN-SB2B-927-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
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-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

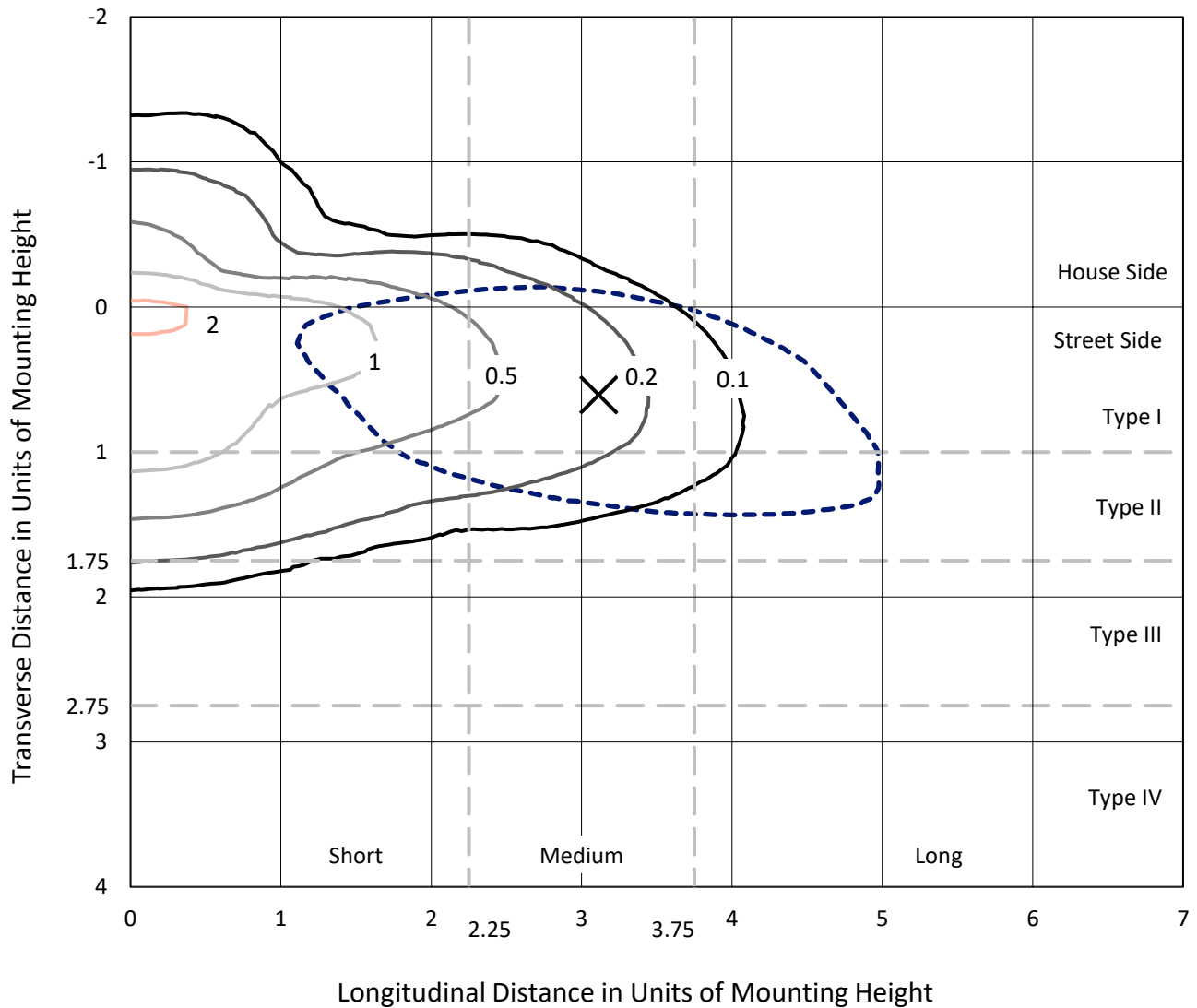
Lumens per Lamp: N/A  
Luminaire Lumens: 6813 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

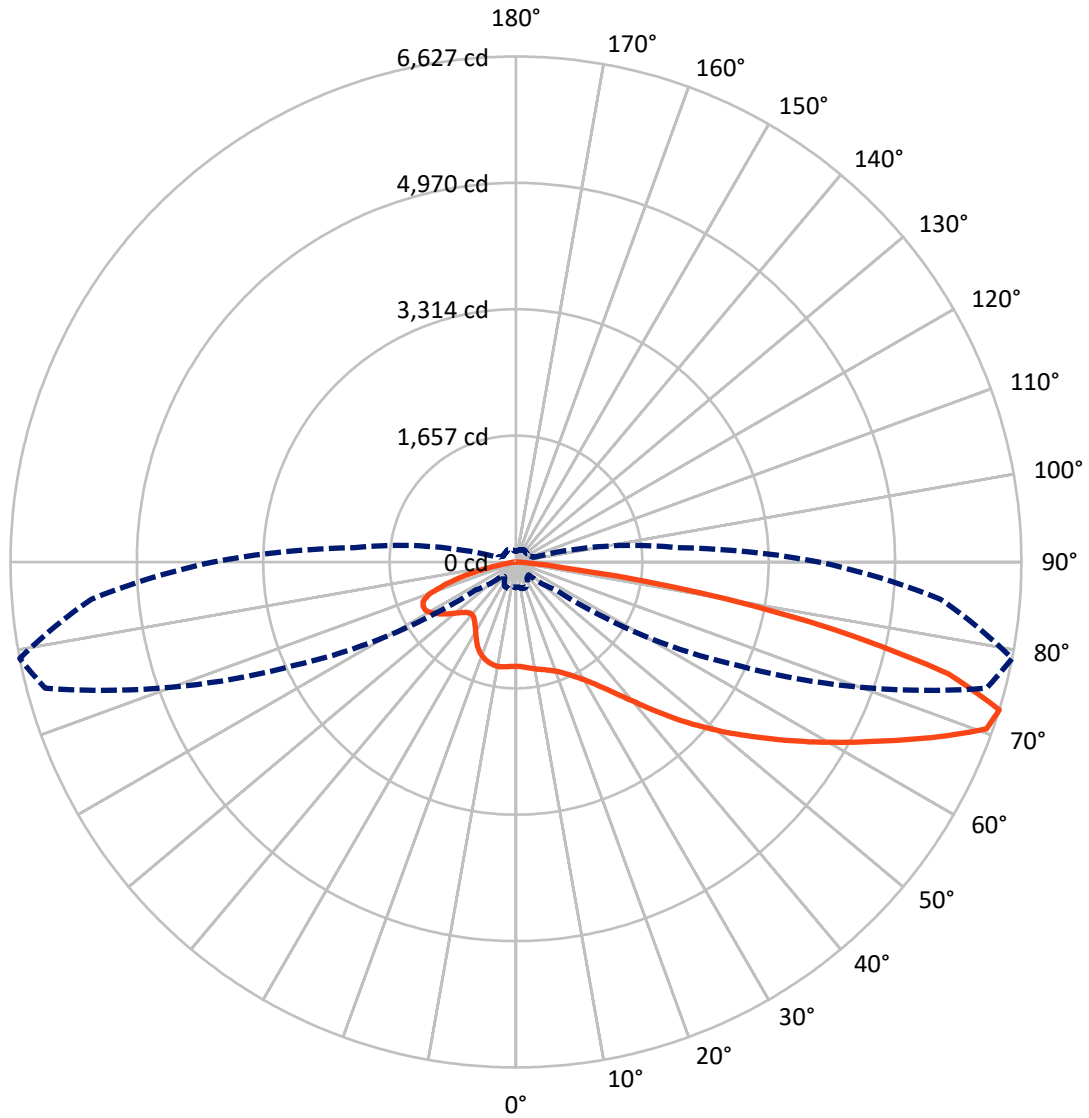
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1499.2	0.0	1499.2
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	5313.8	0.0	5313.8
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	6813.0	0.0	6813.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.1	1.8
10°-20°	324.6	4.8
20°-30°	523.7	7.7
30°-40°	786.0	11.5
40°-50°	1115.0	16.4
50°-60°	1408.1	20.7
60°-70°	1430.2	21.0
70°-80°	974.7	14.3
80°-90°	126.5	1.9
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°	6813.0	100.0
0°-180°	6813.0	100.0

**Coefficient of Utilization**



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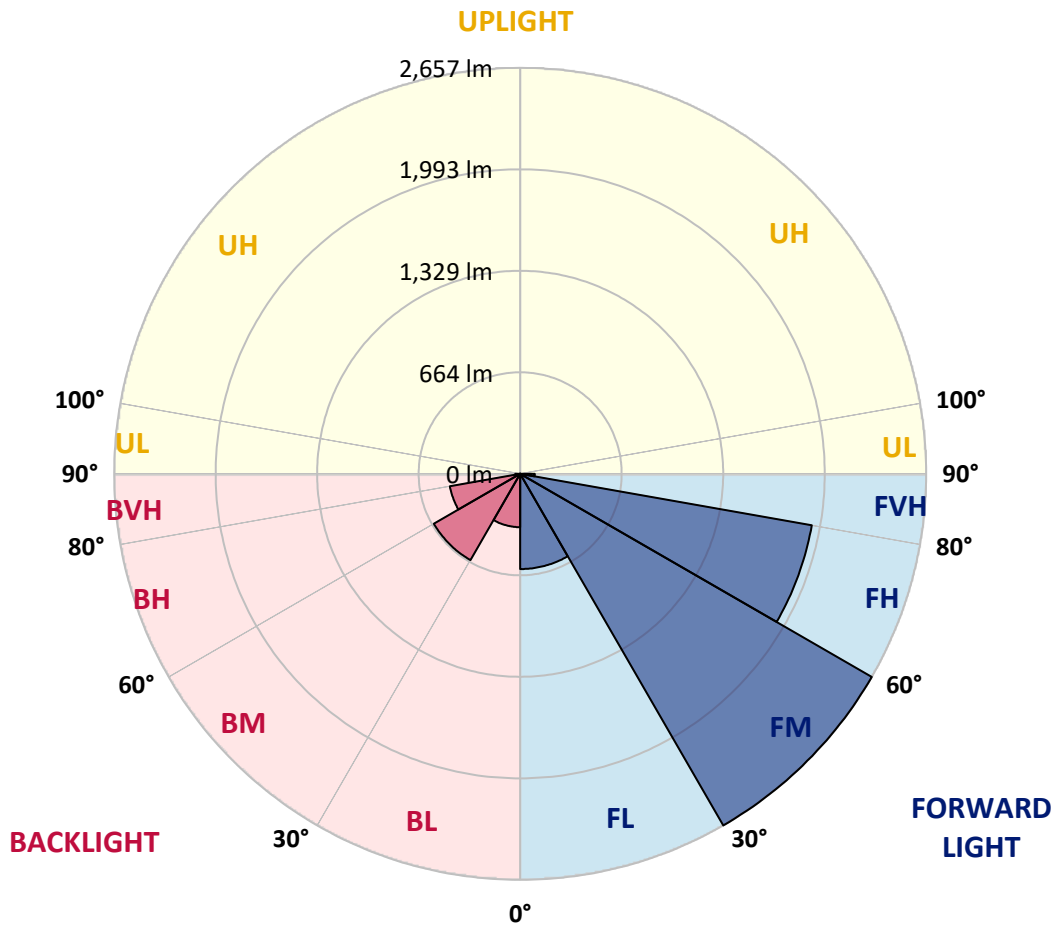
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.2	9.1			
FM (30°-60°)	2657.2	39.0			
FH (60°-80°)	1938.1	28.4			G2/5000
FVH (80°-90°)	95.3	1.4			G1/100
BL (0°-30°)	349.2	5.1	B1/500		
BM (30°-60°)	652.0	9.6	B1/1000		
BH (60°-80°)	466.8	6.9	B1/500		G1/500
BVH (80°-90°)	31.2	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
2.5°	1368.4	1361.9	1365.8	1364.4	1366.2	1368.4	1369.1	1370.2	1373.8	1373.4
5°	1365.5	1359.0	1364.4	1362.6	1367.3	1372.3	1376.7	1380.6	1386.4	1388.9
7.5°	1359.4	1355.0	1360.4	1365.8	1374.5	1382.1	1388.2	1397.2	1405.5	1406.9
10°	1323.7	1320.4	1333.0	1347.1	1370.9	1391.4	1404.8	1415.2	1424.2	1425.7
12.5°	1286.6	1282.6	1296.6	1315.8	1354.3	1391.4	1419.5	1433.2	1441.2	1445.8
15°	1280.4	1277.2	1285.1	1301.7	1333.8	1381.7	1429.6	1454.9	1461.7	1467.1
17.5°	1310.0	1303.9	1307.1	1312.9	1331.6	1372.7	1437.6	1479.4	1489.8	1495.6
20°	1378.5	1369.8	1364.8	1353.2	1350.0	1374.1	1436.8	1508.9	1522.6	1529.8
22.5°	1469.6	1463.9	1453.1	1423.9	1392.2	1391.8	1450.5	1546.8	1572.3	1579.2
25°	1579.9	1571.3	1557.6	1517.9	1457.0	1426.7	1473.6	1595.0	1637.9	1639.7
27.5°	1706.8	1693.8	1675.0	1622.8	1540.6	1481.5	1508.9	1650.5	1713.3	1712.5
30°	1840.5	1827.5	1807.7	1744.2	1640.8	1555.4	1557.9	1710.4	1802.6	1798.7
32.5°	1938.1	1928.4	1924.4	1875.4	1756.1	1642.6	1614.1	1776.7	1912.9	1909.3
35°	2013.1	2000.5	2005.2	1980.3	1881.9	1740.3	1683.0	1855.6	2047.0	2046.6
37.5°	2087.3	2076.2	2080.1	2063.5	1998.3	1864.2	1766.9	1952.2	2213.1	2221.0
40°	2155.1	2143.2	2159.0	2143.5	2088.8	1996.1	1862.4	2061.4	2405.5	2420.7
42.5°	2195.8	2186.4	2212.7	2213.1	2167.3	2107.5	1967.3	2181.7	2628.3	2662.1
45°	2209.9	2206.6	2246.3	2254.5	2236.9	2172.0	2061.7	2312.9	2868.3	2928.8
47.5°	2194.7	2188.6	2243.4	2274.0	2288.1	2202.3	2139.9	2454.9	3113.3	3202.0
50°	2118.3	2106.4	2187.9	2252.4	2302.5	2222.1	2218.9	2618.9	3391.9	3488.8
52.5°	1981.0	1972.0	2064.6	2176.7	2270.8	2231.8	2307.5	2798.0	3656.4	3781.8
55°	1805.5	1793.6	1895.6	2041.9	2191.8	2228.6	2396.2	2998.4	3968.5	4095.7
57.5°	1527.3	1503.5	1632.5	1805.5	2063.2	2224.6	2488.4	3197.7	4285.6	4438.1
60°	1121.5	1086.2	1244.4	1449.5	1811.6	2186.1	2602.7	3421.1	4666.2	4803.5
62.5°	653.0	632.5	735.9	927.3	1365.5	1959.0	2666.8	3680.9	5040.3	5184.4
65°	507.1	501.3	510.3	525.1	760.0	1466.7	2469.0	3934.3	5516.0	5616.9
67.5°	463.8	459.5	463.4	435.7	385.6	817.0	1953.3	3998.4	6025.6	6086.8
70°	412.3	407.2	420.2	396.4	303.4	371.6	1262.1	3765.6	6431.0	6546.0
72.5°	335.9	330.1	360.4	349.6	255.5	238.6	633.9	3212.4	6388.5	6627.0
75°	258.0	254.8	290.8	299.8	208.3	187.8	304.2	2387.9	5621.9	5862.3
77.5°	200.4	197.8	216.2	249.0	167.9	145.6	187.0	1514.7	4236.6	4278.8
80°	150.3	143.1	160.0	192.8	130.8	106.3	126.9	883.3	2678.0	2427.5
82.5°	94.1	90.5	104.5	128.7	92.3	73.2	82.5	488.0	1073.2	632.1
85°	53.7	52.3	56.9	73.5	50.1	42.2	47.2	215.5	196.0	134.8
87.5°	21.6	20.9	25.9	32.8	18.4	15.5	16.6	51.9	43.2	40.0
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°
1367.6	0°	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6	1367.6
1373.1	2.5°	1371.6	1371.6	1366.6	1358.6	1349.6	1343.9	1334.5	1332.0	1322.2	1319.4
1385.3	5°	1388.2	1385.3	1369.8	1347.5	1316.8	1288.7	1257.7	1238.3	1210.9	1201.1
1409.4	7.5°	1409.1	1401.2	1374.5	1325.5	1261.3	1198.3	1132.7	1082.9	1035.4	1018.4
1429.3	10°	1428.2	1417.0	1371.6	1285.8	1174.8	1065.6	961.1	888.0	832.5	809.8
1451.3	12.5°	1447.3	1426.7	1352.5	1219.9	1052.0	903.8	792.5	735.5	701.3	673.9
1469.3	15°	1465.3	1436.5	1323.0	1131.6	917.2	766.9	684.7	639.3	611.9	593.9
1495.6	17.5°	1486.2	1444.8	1278.6	1019.5	788.9	672.1	605.1	577.7	572.3	570.1
1531.6	20°	1515.4	1452.3	1220.2	894.1	694.5	596.4	561.8	559.3	559.0	557.9
1574.9	22.5°	1546.8	1461.3	1143.1	780.2	614.1	549.2	543.1	538.0	534.8	534.4
1627.1	25°	1583.9	1464.2	1046.5	686.9	545.6	526.9	519.7	512.1	509.9	509.9
1686.6	27.5°	1619.9	1454.5	934.1	605.8	507.1	506.3	497.0	494.4	494.1	495.2
1754.3	30°	1655.9	1436.1	822.4	530.8	484.7	484.7	481.5	483.3	484.7	488.3
1847.3	32.5°	1704.6	1416.7	729.1	475.3	465.3	461.6	464.9	468.5	469.9	474.6
1969.5	35°	1776.0	1403.0	654.8	445.1	445.1	440.4	442.2	441.5	438.2	436.1
2117.2	37.5°	1870.4	1402.2	593.5	431.0	428.1	427.4	427.8	423.1	410.5	395.3
2296.0	40°	1983.9	1421.7	546.3	421.3	419.1	423.4	421.3	408.7	374.1	347.8
2515.8	42.5°	2136.3	1477.2	516.1	409.4	415.9	421.3	412.6	369.0	345.6	327.9
2766.3	45°	2315.8	1567.3	500.6	396.8	409.8	416.2	374.4	355.3	336.6	315.3
3039.5	47.5°	2519.1	1680.8	497.0	384.9	396.1	400.0	358.2	349.6	328.3	305.2
3314.1	50°	2740.3	1815.2	506.7	370.8	376.2	362.5	352.8	344.9	322.9	300.2
3595.5	52.5°	2969.2	1963.4	526.2	351.7	356.4	341.3	350.7	343.8	319.7	289.0
3886.3	55°	3194.1	2112.6	544.9	329.4	336.2	322.2	344.5	339.5	304.9	270.3
4196.6	57.5°	3422.5	2261.0	563.3	309.6	316.8	303.8	334.8	327.9	288.3	253.0
4535.4	60°	3660.0	2405.2	571.9	290.5	295.5	286.9	320.0	308.1	269.6	235.3
4868.4	62.5°	3882.4	2525.2	557.9	271.4	274.6	271.0	300.6	284.7	250.8	215.5
5215.4	65°	4105.5	2596.5	514.6	252.6	253.3	251.5	273.2	259.5	228.8	198.2
5519.2	67.5°	4307.6	2636.5	445.8	232.4	230.6	229.9	247.6	232.1	207.6	180.9
5750.2	70°	4350.5	2534.9	340.6	208.7	208.7	206.9	219.5	203.6	184.2	162.5
5584.8	72.5°	3973.6	2132.4	241.8	181.6	184.5	180.9	191.4	178.0	160.4	146.0
4813.2	75°	3204.1	1563.7	175.9	153.9	158.9	152.8	162.5	153.2	138.0	137.7
3316.9	77.5°	2201.6	966.9	127.6	126.9	130.5	122.5	133.7	128.7	115.0	108.8
1443.7	80°	939.5	385.6	93.0	98.0	98.0	90.8	103.8	105.2	93.3	90.5
278.6	82.5°	187.0	109.6	65.2	67.4	63.4	61.3	73.5	81.4	112.4	125.1
84.0	85°	56.2	40.4	39.3	36.8	32.4	32.8	43.2	81.8	100.9	57.7
27.7	87.5°	15.5	10.1	10.5	8.3	6.8	9.0	14.8	62.0	33.9	14.4
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>
1367.6
1324.0
1208.4
1020.6
814.8
682.9
597.2
571.6
561.5
538.4
512.1
498.0
490.8
478.6
441.1
395.7
347.0
327.2
313.9
303.4
297.7
286.9
268.5
252.3
234.2
215.1
196.0
178.7
161.8
141.6
124.0
102.0
90.5
125.4
49.7
12.3
0.0

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