

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: P945810

Luminaire Tested: **GALN-SB1C-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4645 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

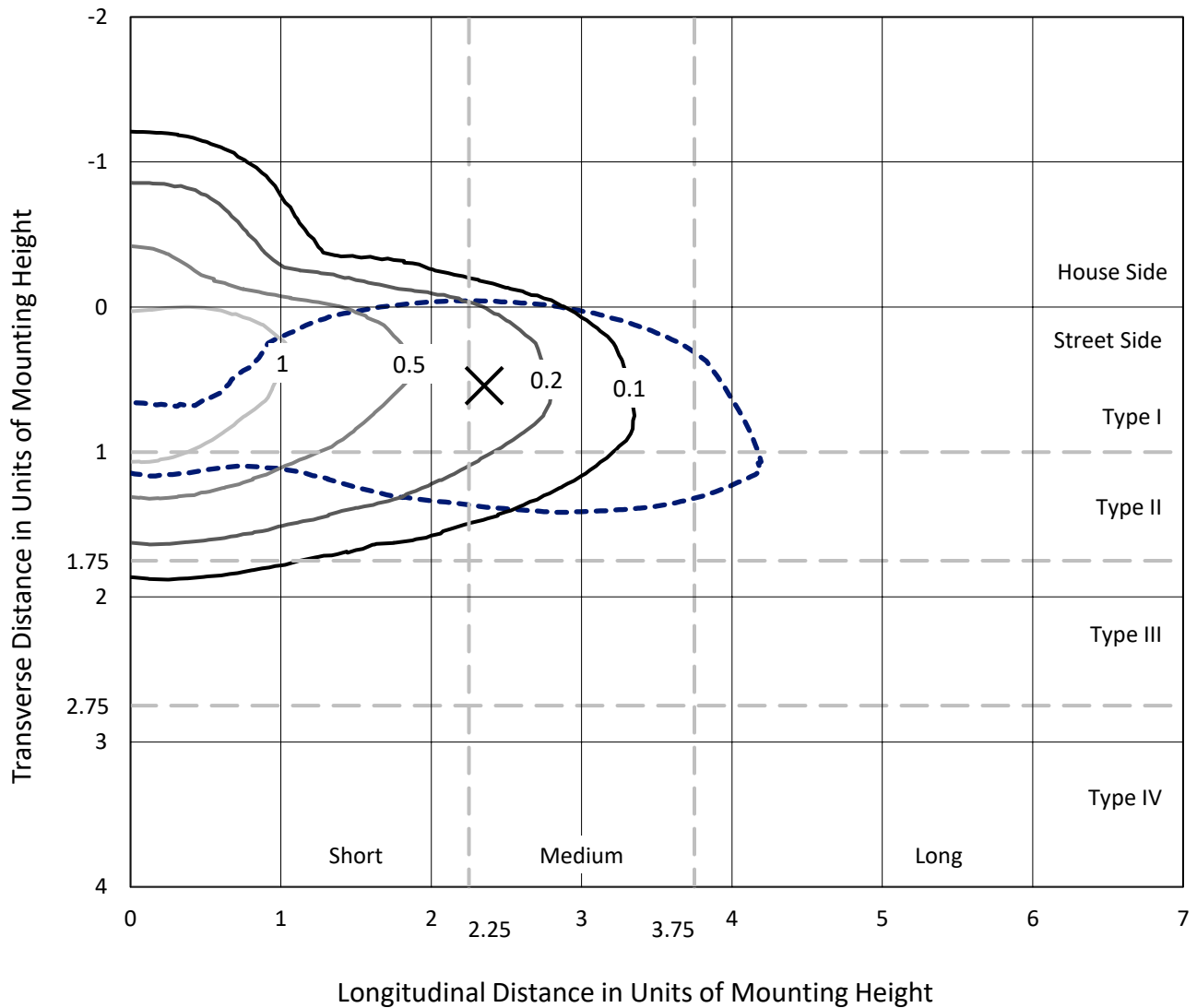
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

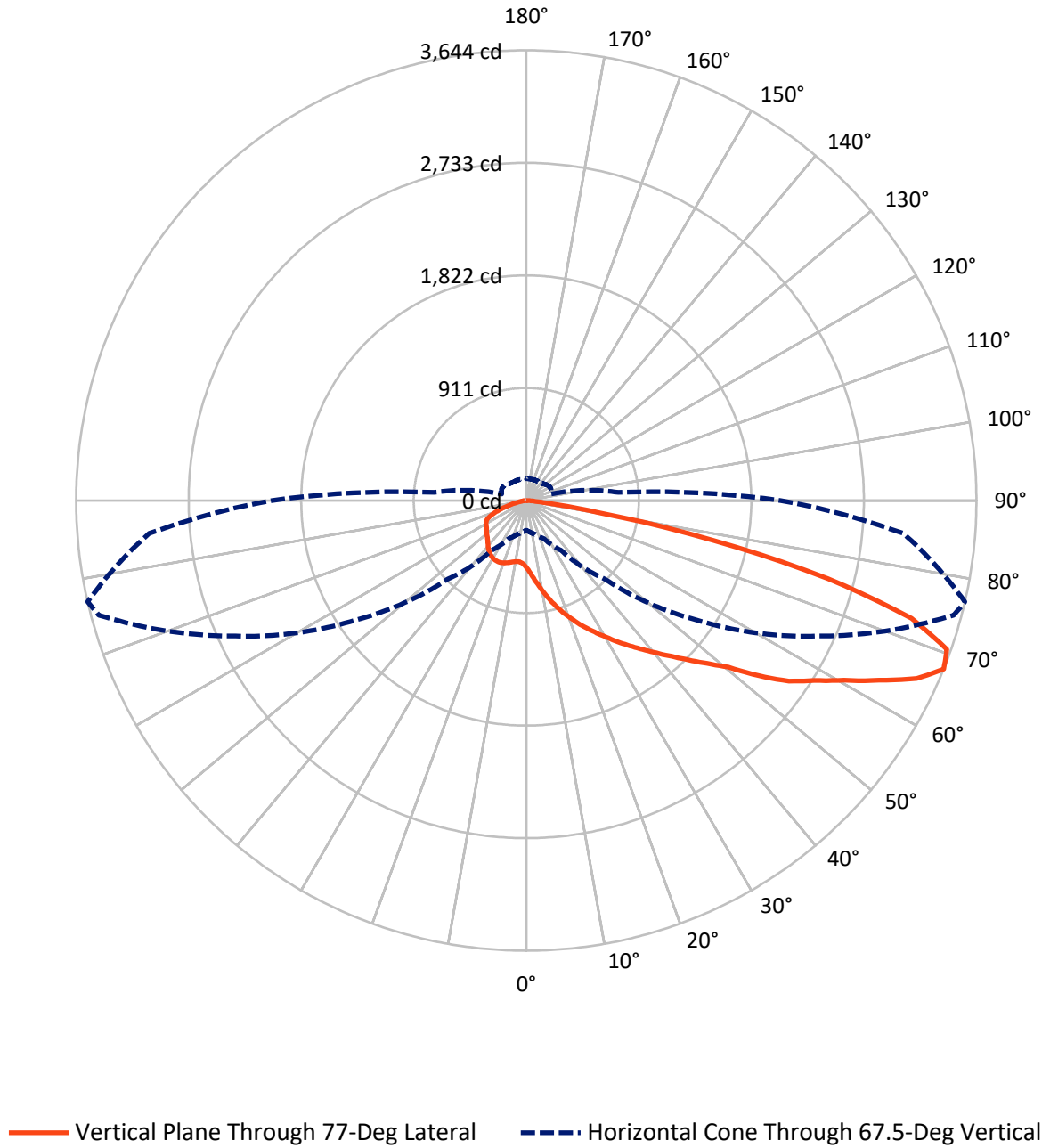
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.6	0.0	878.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	3766.3	0.0	3766.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	4645.0	0.0	4645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.3
10°-20°	209.9	4.5
20°-30°	396.3	8.5
30°-40°	638.4	13.7
40°-50°	873.2	18.8
50°-60°	984.9	21.2
60°-70°	919.3	19.8
70°-80°	503.9	10.8
80°-90°	60.8	1.3
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°	4645.0	100.0
0°-180°	4645.0	100.0

Coefficient of Utilization



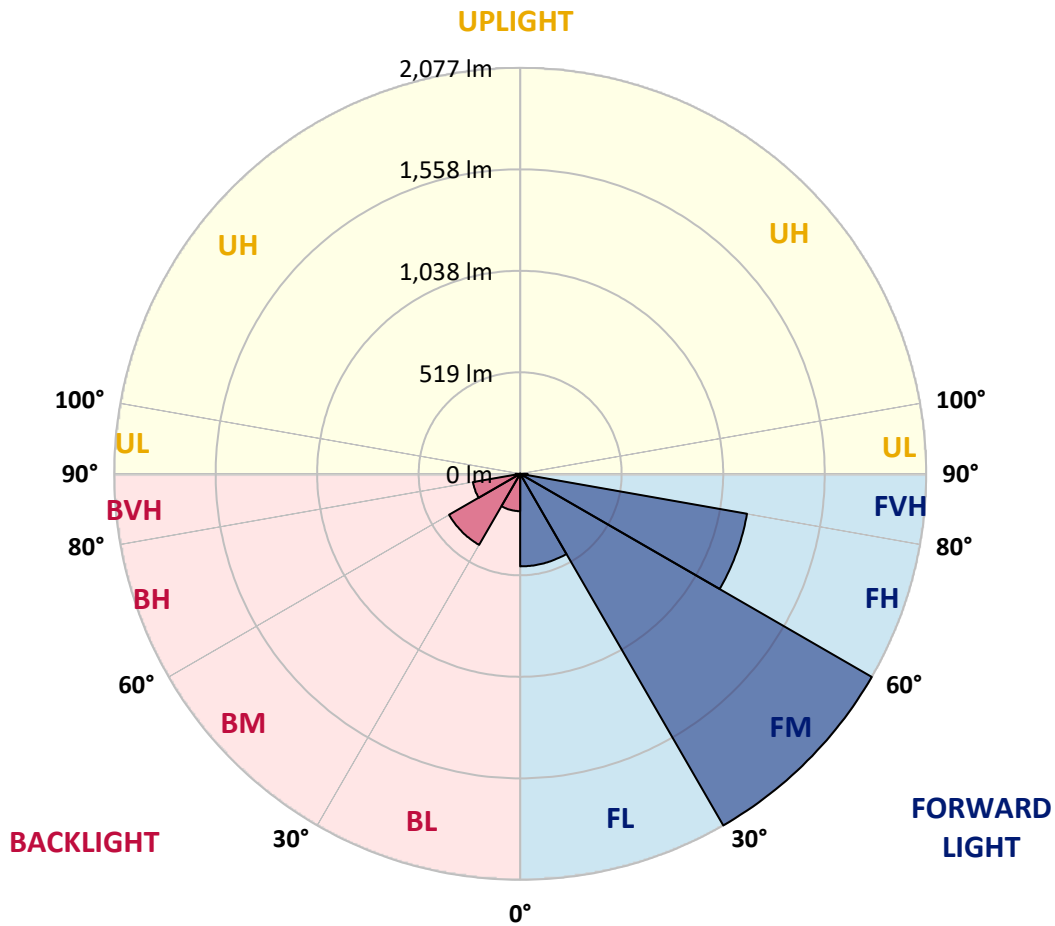
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.5	10.2			
FM (30°-60°)	2076.7	44.7			
FH (60°-80°)	1178.1	25.4			G1/1800
FVH (80°-90°)	38.0	0.8			G1/100
BL (0°-30°)	191.0	4.1	B1/500		
BM (30°-60°)	419.7	9.0	B1/1000		
BH (60°-80°)	245.1	5.3	B1/500		G1/500
BVH (80°-90°)	22.8	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
2.5°	682.4	687.2	681.2	681.2	661.1	650.5	630.4	615.0	587.4	582.6
5°	806.6	812.6	804.2	800.6	776.9	755.0	721.2	687.9	638.8	633.7
7.5°	902.7	910.4	903.0	899.1	878.0	853.6	814.0	767.5	698.2	688.4
10°	981.1	982.3	980.0	981.4	964.8	944.7	904.2	850.0	763.4	750.0
12.5°	1025.5	1031.0	1035.8	1044.4	1041.6	1029.1	992.7	927.9	832.5	815.2
15°	1046.4	1056.0	1066.7	1086.6	1102.7	1105.8	1078.0	1011.6	902.7	881.9
17.5°	1053.8	1062.9	1079.9	1108.7	1143.2	1166.5	1154.0	1092.9	972.3	948.3
20°	1091.4	1094.1	1104.4	1131.7	1169.1	1207.7	1217.1	1171.0	1041.1	1014.0
22.5°	1172.0	1166.7	1169.6	1182.1	1208.9	1246.3	1267.7	1240.1	1111.8	1080.7
25°	1305.1	1289.7	1274.4	1260.0	1273.7	1294.8	1319.0	1309.2	1185.9	1146.4
27.5°	1473.2	1454.5	1420.7	1373.4	1356.9	1364.3	1375.1	1373.2	1254.5	1214.4
30°	1638.6	1616.8	1576.5	1508.2	1464.5	1444.9	1436.7	1431.2	1329.1	1286.4
32.5°	1770.7	1753.5	1713.9	1637.4	1574.1	1540.5	1513.4	1493.8	1407.0	1364.3
35°	1886.3	1870.2	1824.9	1741.5	1672.7	1636.9	1601.4	1559.5	1488.0	1444.9
37.5°	1991.8	1975.7	1913.6	1826.8	1757.5	1732.8	1701.2	1630.0	1569.3	1528.5
40°	2058.4	2054.9	1996.8	1898.5	1826.6	1814.4	1803.8	1711.7	1659.5	1621.6
42.5°	2075.5	2083.4	2037.3	1956.5	1888.0	1878.1	1902.8	1804.3	1760.6	1724.4
45°	2034.5	2057.2	2027.0	1972.1	1931.6	1926.3	1990.6	1905.5	1872.6	1839.5
47.5°	1930.6	1969.3	1956.8	1949.1	1943.4	1966.1	2067.8	2012.9	1999.5	1970.7
50°	1721.1	1794.2	1816.0	1864.5	1920.1	1997.1	2138.1	2130.1	2147.6	2118.6
52.5°	1358.8	1459.5	1586.1	1707.4	1848.6	1986.8	2215.3	2298.5	2372.3	2356.5
55°	1121.7	1167.0	1264.3	1486.8	1710.1	1943.4	2250.0	2434.4	2595.3	2581.2
57.5°	939.4	980.0	1039.9	1225.7	1500.5	1844.8	2271.6	2517.4	2748.0	2746.6
60°	744.0	786.9	848.3	980.0	1255.7	1674.6	2266.8	2611.8	2943.0	2955.0
62.5°	523.4	570.7	638.8	761.5	1005.6	1454.0	2169.0	2680.2	3172.4	3205.0
65°	344.1	375.2	426.6	532.5	749.3	1170.3	1982.2	2689.0	3418.0	3473.1
67.5°	241.2	253.2	283.4	341.0	493.9	897.5	1684.6	2597.2	3581.7	3643.8
70°	188.2	194.2	209.6	232.6	310.3	603.5	1290.9	2358.4	3546.7	3611.5
72.5°	162.6	168.3	174.1	177.0	208.1	372.6	874.5	1971.9	3217.0	3260.9
75°	147.5	148.9	153.7	152.7	158.7	241.7	504.7	1436.7	2538.2	2523.1
77.5°	124.0	125.9	133.8	132.6	141.0	165.2	262.1	927.2	1645.6	1542.9
80°	105.0	106.0	114.6	113.2	122.5	119.6	133.8	472.6	698.0	591.3
82.5°	36.4	45.1	87.5	90.2	93.5	72.4	77.2	192.8	213.2	163.3
85°	17.7	18.9	44.6	63.3	63.1	36.4	37.6	68.8	67.1	52.7
87.5°	2.9	3.6	5.3	24.7	19.7	9.6	12.9	13.4	13.9	12.0
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°
545.0	0°	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0	545.0
564.4	2.5°	551.0	539.0	513.8	490.6	472.4	454.8	445.0	436.6	431.8	430.9
590.8	5°	565.9	541.2	495.4	456.8	431.6	412.9	403.1	396.8	393.7	391.8
626.3	7.5°	587.2	551.0	485.8	441.9	415.5	402.1	397.1	396.1	395.9	396.1
669.2	10°	616.7	567.1	484.8	438.3	416.2	408.8	408.6	408.8	409.8	410.0
716.0	12.5°	648.6	583.6	488.7	441.4	425.4	421.3	420.6	420.3	421.0	421.5
763.2	15°	683.4	605.4	495.1	448.1	435.4	431.1	430.4	429.0	428.7	428.5
812.8	17.5°	719.1	627.0	502.3	455.3	441.9	435.9	433.3	429.9	427.3	426.6
864.1	20°	755.3	648.3	507.4	458.9	442.4	434.0	428.7	423.0	418.4	415.8
915.9	22.5°	793.9	670.6	510.5	458.0	438.1	426.6	417.0	410.3	403.3	398.7
968.2	25°	831.5	690.1	510.2	452.9	429.7	415.0	402.8	394.2	384.6	379.8
1022.2	27.5°	867.7	707.6	504.2	444.1	417.7	401.4	386.8	376.4	367.1	362.5
1076.6	30°	905.1	722.2	494.9	431.1	403.5	385.6	369.5	360.6	352.2	347.9
1134.1	32.5°	942.3	735.6	481.7	415.0	387.2	370.0	354.1	346.0	341.0	341.0
1196.0	35°	981.6	745.0	464.2	396.3	370.0	353.4	341.0	336.2	335.7	332.8
1261.4	37.5°	1023.1	751.0	442.9	377.2	352.9	337.4	333.5	327.8	323.0	316.7
1333.4	40°	1066.7	757.0	417.2	357.3	335.0	326.3	324.7	317.0	303.3	288.0
1414.9	42.5°	1119.7	761.0	390.6	337.4	316.0	313.1	315.5	302.4	280.5	269.0
1513.2	45°	1181.1	767.8	366.1	317.7	296.6	296.6	306.7	289.4	271.4	264.2
1625.4	47.5°	1260.7	783.3	343.4	296.1	278.6	283.4	287.0	273.8	263.7	254.9
1762.1	50°	1375.8	820.7	319.9	274.3	264.9	274.5	269.5	261.8	250.1	242.9
1979.3	52.5°	1518.7	842.8	299.0	254.6	253.2	262.8	255.6	248.4	239.5	229.9
2144.0	55°	1616.1	846.9	281.5	240.3	245.3	244.3	241.7	235.2	230.4	217.7
2306.6	57.5°	1724.9	855.0	267.1	231.6	240.3	229.7	228.7	223.2	217.0	208.4
2504.9	60°	1855.1	867.7	254.6	228.3	235.9	220.1	215.3	213.2	206.9	202.6
2743.5	62.5°	1997.1	879.2	241.9	228.7	230.9	210.8	203.6	202.8	199.0	197.6
2967.4	65°	2093.9	847.8	226.1	228.3	223.0	201.2	192.1	191.8	188.7	188.2
3064.5	67.5°	2060.1	748.3	204.8	221.5	214.8	191.6	181.5	180.5	176.5	176.7
2963.1	70°	1890.8	606.4	175.3	205.0	204.8	182.9	170.5	167.4	161.8	162.8
2576.4	72.5°	1573.4	449.3	135.7	177.4	188.7	175.0	157.8	152.7	145.8	146.7
1901.9	75°	1136.3	305.5	98.8	135.0	164.2	165.7	145.3	136.7	128.3	129.7
1058.6	77.5°	581.4	173.1	72.7	93.0	129.0	150.6	134.0	122.5	120.6	134.0
305.2	80°	189.7	86.8	50.4	65.2	84.6	123.2	117.5	104.3	103.8	106.9
64.0	82.5°	56.6	36.7	32.4	42.9	46.8	94.5	101.4	78.9	67.9	71.5
21.3	85°	19.4	17.7	18.5	21.3	22.3	55.4	71.0	52.3	49.4	54.4
4.8	87.5°	4.6	6.2	5.3	4.8	4.8	13.4	27.6	21.8	30.2	20.1
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>
545.0
430.9
391.5
396.8
410.3
421.8
428.2
427.3
416.7
399.0
379.8
362.3
347.7
341.2
332.1
315.8
285.8
269.3
265.4
254.6
242.2
228.0
218.0
205.5
203.8
197.6
188.0
176.7
163.8
146.5
130.2
132.1
91.8
73.8
53.7
19.4
0.0

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