

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: P945277

Luminaire Tested: **GALN-SB1B-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945277
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-SB1B-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5923 lumens
Efficiency: N/A
Efficacy: 148.8 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

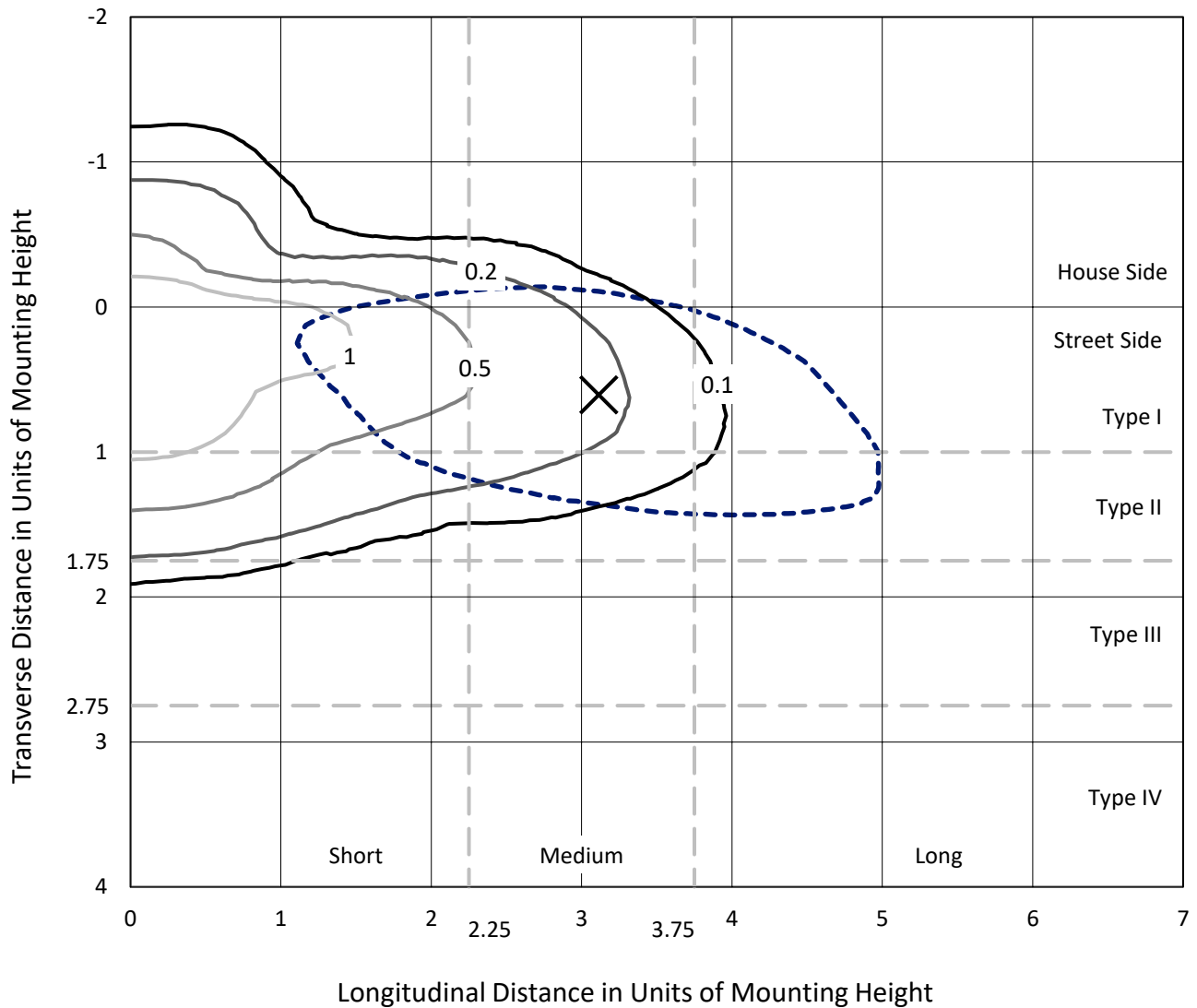
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

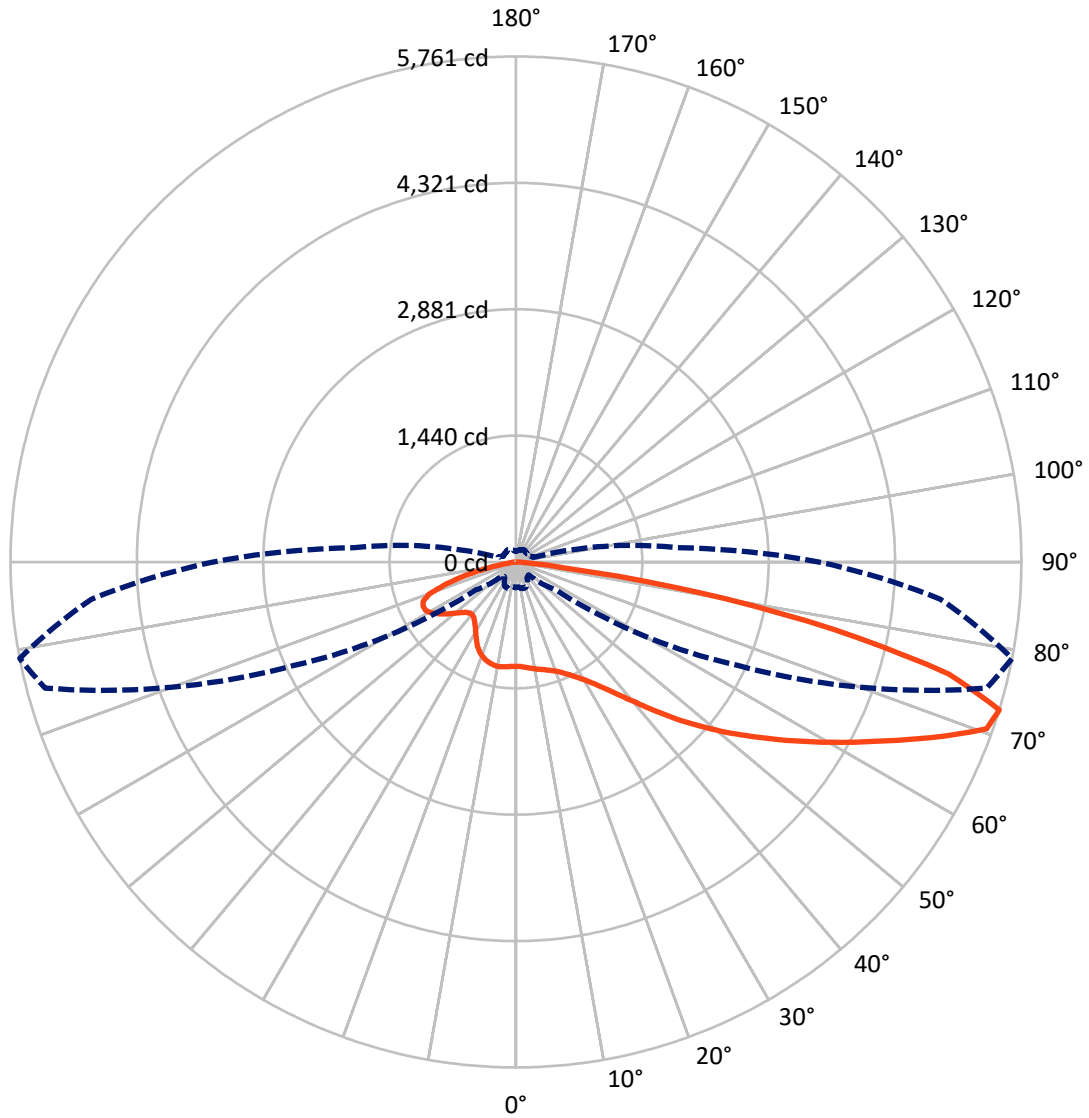
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	1303.4	0.0	1303.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4619.6	0.0	4619.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	5923.0	0.0	5923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	1.8
10°-20°	282.2	4.8
20°-30°	455.3	7.7
30°-40°	683.4	11.5
40°-50°	969.4	16.4
50°-60°	1224.2	20.7
60°-70°	1243.3	21.0
70°-80°	847.4	14.3
80°-90°	109.9	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°	5923.0	100.0
0°-180°	5923.0	100.0

Coefficient of Utilization



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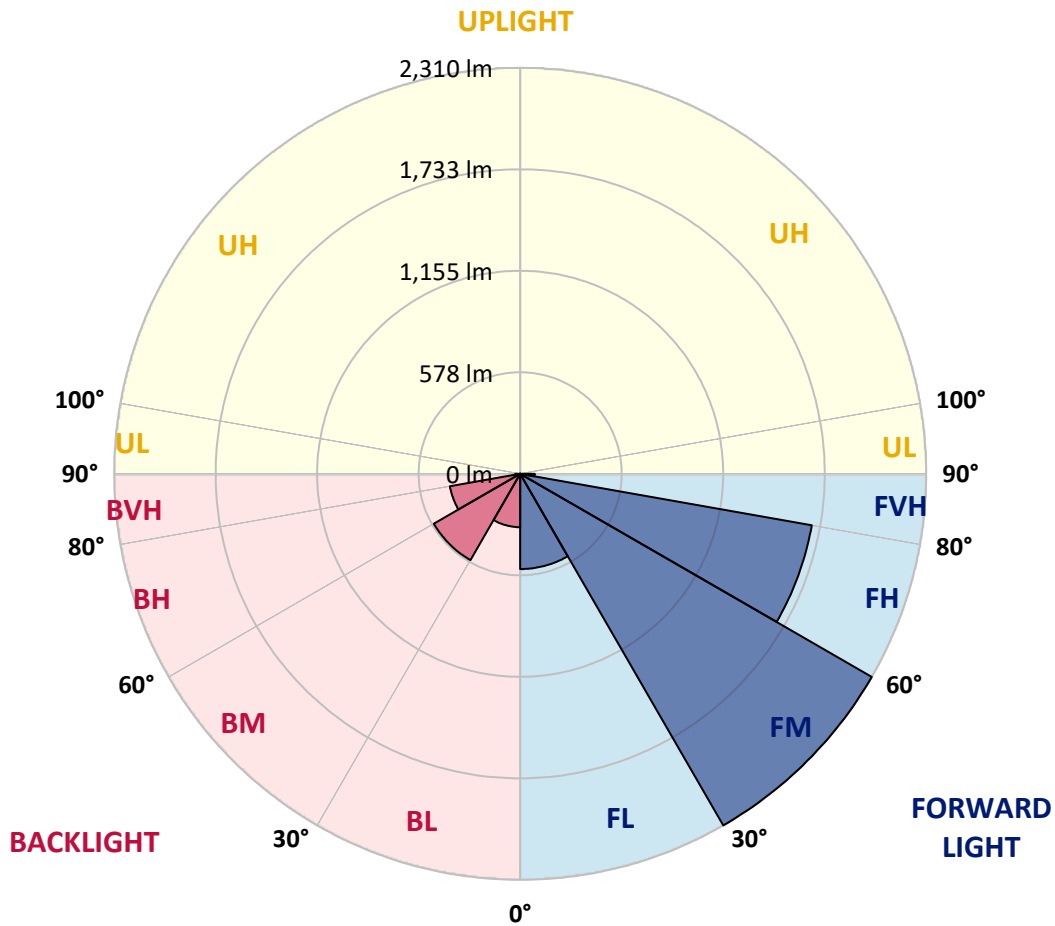
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.8	9.1			
FM (30°-60°)	2310.1	39.0			
FH (60°-80°)	1684.9	28.4			G1/1800
FVH (80°-90°)	82.8	1.4			G1/100
BL (0°-30°)	303.6	5.1	B1/500		
BM (30°-60°)	566.8	9.6	B1/1000		
BH (60°-80°)	405.8	6.9	B1/500		G1/500
BVH (80°-90°)	27.1	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1189.6	1184.0	1187.4	1186.2	1187.7	1189.6	1190.2	1191.2	1194.3	1194.0
5°	1187.1	1181.5	1186.2	1184.6	1188.7	1193.1	1196.8	1200.3	1205.3	1207.5
7.5°	1181.8	1178.0	1182.7	1187.4	1194.9	1201.5	1206.8	1214.7	1221.9	1223.1
10°	1150.8	1147.9	1158.9	1171.1	1191.8	1209.7	1221.3	1230.3	1238.2	1239.4
12.5°	1118.5	1115.0	1127.3	1143.9	1177.4	1209.7	1234.1	1246.0	1252.9	1257.0
15°	1113.2	1110.3	1117.2	1131.7	1159.5	1201.2	1242.9	1264.8	1270.8	1275.5
17.5°	1138.9	1133.5	1136.4	1141.4	1157.7	1193.4	1249.8	1286.1	1295.2	1300.2
20°	1198.4	1190.9	1186.5	1176.5	1173.6	1194.6	1249.1	1311.8	1323.7	1330.0
22.5°	1277.7	1272.6	1263.2	1237.9	1210.3	1210.0	1261.0	1344.7	1366.9	1372.9
25°	1373.5	1366.0	1354.1	1319.6	1266.7	1240.4	1281.1	1386.7	1424.0	1425.5
27.5°	1483.8	1472.5	1456.2	1410.8	1339.4	1288.0	1311.8	1434.9	1489.4	1488.8
30°	1600.0	1588.8	1571.5	1516.4	1426.5	1352.2	1354.4	1486.9	1567.1	1563.7
32.5°	1684.9	1676.5	1673.0	1630.4	1526.7	1428.0	1403.3	1544.6	1663.0	1659.9
35°	1750.1	1739.1	1743.2	1721.6	1636.1	1512.9	1463.1	1613.2	1779.6	1779.2
37.5°	1814.7	1804.9	1808.4	1794.0	1737.3	1620.7	1536.1	1697.2	1924.0	1930.9
40°	1873.6	1863.2	1877.0	1863.5	1815.9	1735.4	1619.2	1792.1	2091.3	2104.5
42.5°	1909.0	1900.8	1923.7	1924.0	1884.2	1832.2	1710.3	1896.7	2284.9	2314.4
45°	1921.2	1918.4	1952.8	1960.0	1944.7	1888.3	1792.4	2010.8	2493.6	2546.2
47.5°	1908.0	1902.7	1950.3	1976.9	1989.2	1914.6	1860.4	2134.2	2706.6	2783.7
50°	1841.6	1831.3	1902.1	1958.1	2001.7	1931.8	1929.0	2276.8	2948.8	3033.1
52.5°	1722.2	1714.4	1794.9	1892.4	1974.1	1940.3	2006.1	2432.5	3178.8	3287.8
55°	1569.6	1559.3	1648.0	1775.2	1905.5	1937.5	2083.2	2606.7	3450.1	3560.7
57.5°	1327.8	1307.1	1419.3	1569.6	1793.7	1934.0	2163.4	2779.9	3725.8	3858.3
60°	975.0	944.3	1081.8	1260.1	1575.0	1900.5	2262.7	2974.2	4056.7	4176.0
62.5°	567.7	549.8	639.8	806.1	1187.1	1703.1	2318.4	3200.1	4381.9	4507.2
65°	440.8	435.8	443.6	456.5	660.8	1275.1	2146.4	3420.3	4795.4	4883.1
67.5°	403.2	399.5	402.9	378.8	335.2	710.3	1698.1	3476.1	5238.4	5291.7
70°	358.4	354.0	365.3	344.6	263.8	323.0	1097.2	3273.7	5590.9	5690.8
72.5°	292.0	287.0	313.3	303.9	222.1	207.4	551.1	2792.8	5553.9	5761.3
75°	224.3	221.5	252.8	260.7	181.1	163.2	264.4	2075.9	4887.5	5096.5
77.5°	174.2	172.0	188.0	216.5	146.0	126.6	162.6	1316.8	3683.2	3719.8
80°	130.6	124.4	139.1	167.6	113.7	92.4	110.3	767.9	2328.2	2110.4
82.5°	81.8	78.6	90.9	111.8	80.2	63.6	71.7	424.2	933.0	549.5
85°	46.7	45.4	49.5	63.9	43.5	36.7	41.0	187.4	170.4	117.2
87.5°	18.8	18.2	22.6	28.5	16.0	13.5	14.4	45.1	37.6	34.8
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°
1189.0	0°	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0
1193.7	2.5°	1192.4	1192.4	1188.0	1181.2	1173.3	1168.3	1160.2	1158.0	1149.5	1147.0
1204.3	5°	1206.8	1204.3	1190.9	1171.4	1144.8	1120.4	1093.4	1076.5	1052.7	1044.2
1225.3	7.5°	1225.0	1218.1	1194.9	1152.3	1096.6	1041.7	984.7	941.5	900.1	885.4
1242.6	10°	1241.6	1231.9	1192.4	1117.9	1021.4	926.4	835.6	772.0	723.7	704.0
1261.7	12.5°	1258.2	1240.4	1175.8	1060.5	914.5	785.8	689.0	639.5	609.7	585.9
1277.3	15°	1273.9	1248.8	1150.1	983.8	797.4	666.7	595.3	555.8	532.0	516.3
1300.2	17.5°	1292.1	1256.0	1111.6	886.3	685.8	584.3	526.0	502.2	497.5	495.6
1331.5	20°	1317.4	1262.6	1060.8	777.3	603.7	518.5	488.4	486.2	485.9	485.0
1369.1	22.5°	1344.7	1270.4	993.8	678.3	533.9	477.5	472.1	467.8	464.9	464.6
1414.6	25°	1377.0	1273.0	909.8	597.2	474.3	458.0	451.8	445.2	443.3	443.3
1466.3	27.5°	1408.3	1264.5	812.1	526.7	440.8	440.2	432.0	429.9	429.5	430.5
1525.2	30°	1439.6	1248.5	715.0	461.5	421.4	421.4	418.6	420.1	421.4	424.5
1606.0	32.5°	1481.9	1231.6	633.8	413.2	404.5	401.3	404.2	407.3	408.5	412.6
1712.2	35°	1544.0	1219.7	569.3	386.9	386.9	382.9	384.4	383.8	381.0	379.1
1840.7	37.5°	1626.0	1219.1	516.0	374.7	372.2	371.6	371.9	367.8	356.9	343.7
1996.1	40°	1724.7	1236.0	475.0	366.3	364.4	368.1	366.3	355.3	325.2	302.3
2187.2	42.5°	1857.3	1284.2	448.7	355.9	361.6	366.3	358.7	320.8	300.5	285.1
2404.9	45°	2013.3	1362.6	435.2	344.9	356.2	361.9	325.5	308.9	292.6	274.1
2642.4	47.5°	2190.0	1461.2	432.0	334.6	344.3	347.8	311.4	303.9	285.4	265.4
2881.1	50°	2382.4	1578.1	440.5	322.4	327.1	315.2	306.7	299.8	280.7	261.0
3125.8	52.5°	2581.3	1706.9	457.4	305.8	309.9	296.7	304.8	298.9	277.9	251.3
3378.7	55°	2776.8	1836.6	473.7	286.4	292.3	280.1	299.5	295.1	265.1	235.0
3648.4	57.5°	2975.4	1965.7	489.7	269.1	275.4	264.1	291.1	285.1	250.6	219.9
3942.9	60°	3181.9	2091.0	497.2	252.5	256.9	249.4	278.2	267.9	234.4	204.6
4232.4	62.5°	3375.2	2195.3	485.0	235.9	238.7	235.6	261.3	247.5	218.1	187.4
4534.1	65°	3569.2	2257.4	447.4	219.6	220.3	218.7	237.5	225.6	198.9	172.3
4798.2	67.5°	3744.9	2292.1	387.6	202.1	200.5	199.9	215.2	201.8	180.5	157.3
4999.1	70°	3782.2	2203.8	296.1	181.4	181.4	179.8	190.8	177.0	160.1	141.3
4855.3	72.5°	3454.5	1853.8	210.2	157.9	160.4	157.3	166.4	154.8	139.4	126.9
4184.5	75°	2785.6	1359.4	152.9	133.8	138.2	132.8	141.3	133.2	120.0	119.7
2883.6	77.5°	1914.0	840.6	110.9	110.3	113.4	106.5	116.2	111.8	99.9	94.6
1255.1	80°	816.8	335.2	80.8	85.2	85.2	79.0	90.2	91.5	81.1	78.6
242.2	82.5°	162.6	95.2	56.7	58.6	55.1	53.3	63.9	70.8	97.8	108.7
73.0	85°	48.9	35.1	34.2	32.0	28.2	28.5	37.6	71.1	87.7	50.1
24.1	87.5°	13.5	8.8	9.1	7.2	6.0	7.8	12.8	53.9	29.5	12.5
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>
1189.0
1151.1
1050.5
887.3
708.4
593.7
519.1
496.9
488.1
468.1
445.2
433.0
426.7
416.1
383.5
344.0
301.7
284.5
272.9
263.8
258.8
249.4
233.4
219.3
203.6
187.0
170.4
155.4
140.7
123.1
107.8
88.7
78.6
109.0
43.2
10.7
0.0

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