

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: P939125

Luminaire Tested: **GALN-SB1C-827-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

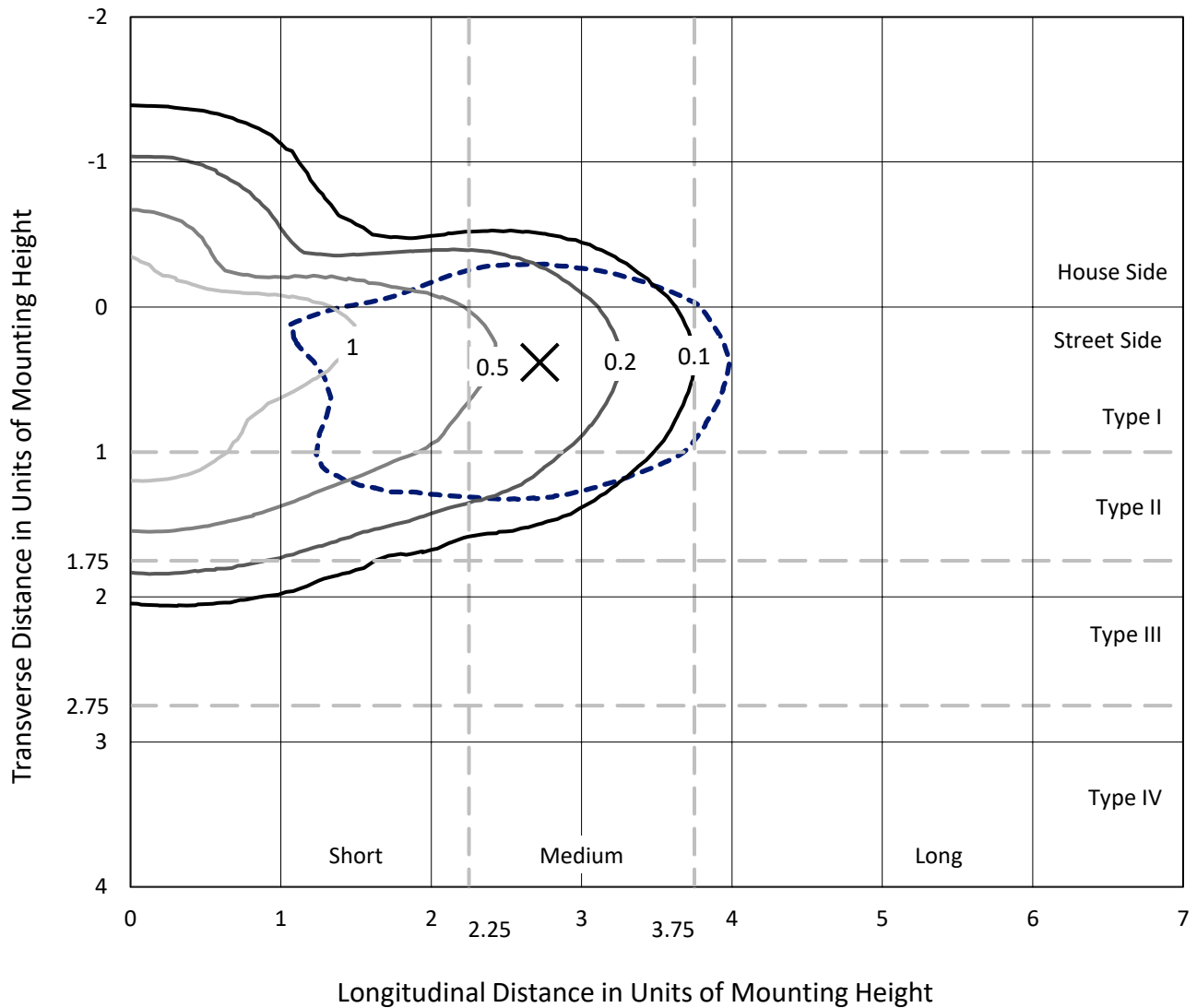
Lumens per Lamp: N/A  
Luminaire Lumens: 6455 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

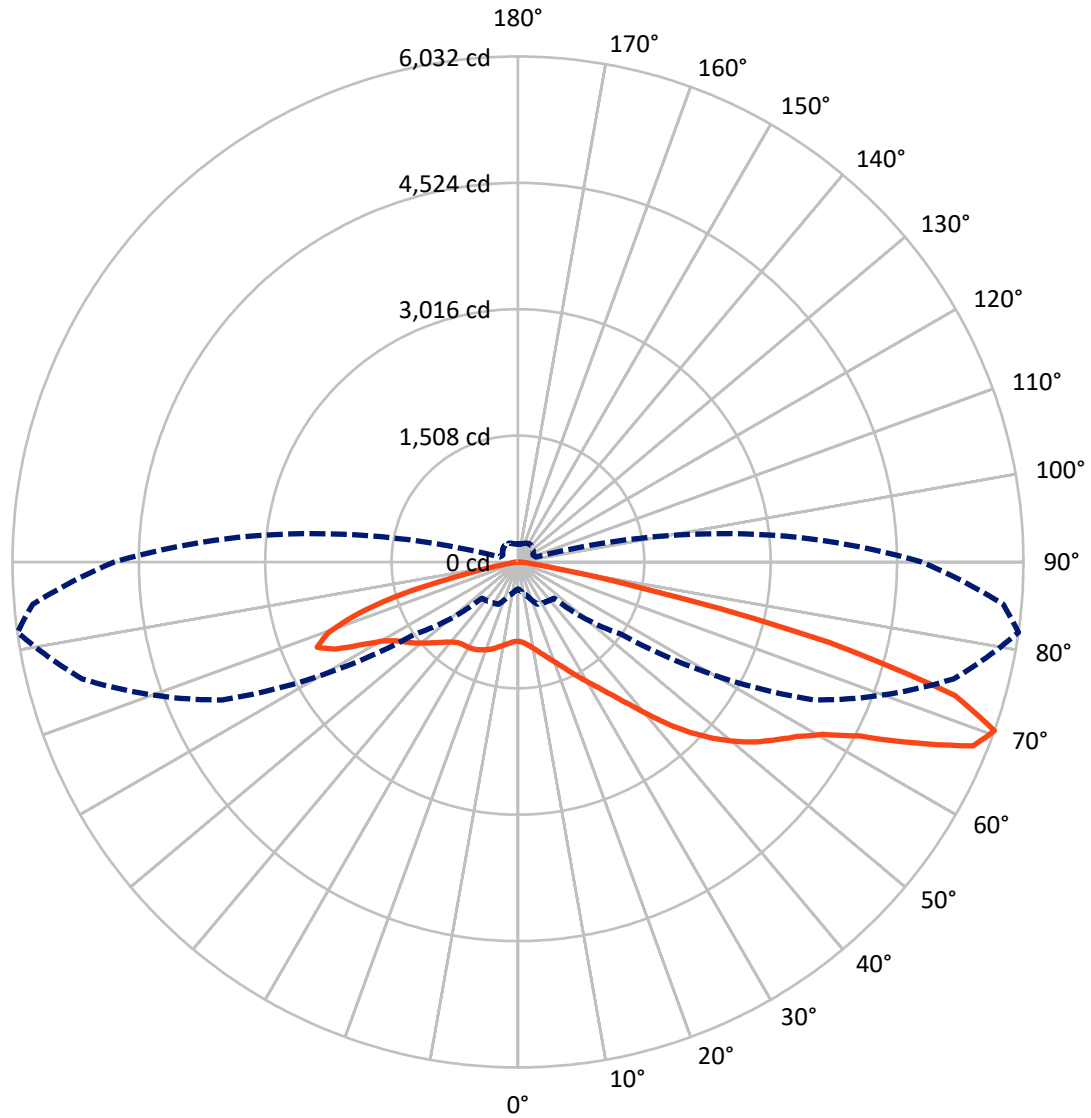
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1591.3	0.0	1591.3
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	4863.7	0.0	4863.7
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	6455.0	0.0	6455.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	1.4
10°-20°	256.7	4.0
20°-30°	429.5	6.7
30°-40°	670.9	10.4
40°-50°	1068.6	16.6
50°-60°	1487.0	23.0
60°-70°	1555.5	24.1
70°-80°	813.0	12.6
80°-90°	84.4	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°	6455.0	100.0
0°-180°	6455.0	100.0

**Coefficient of Utilization**



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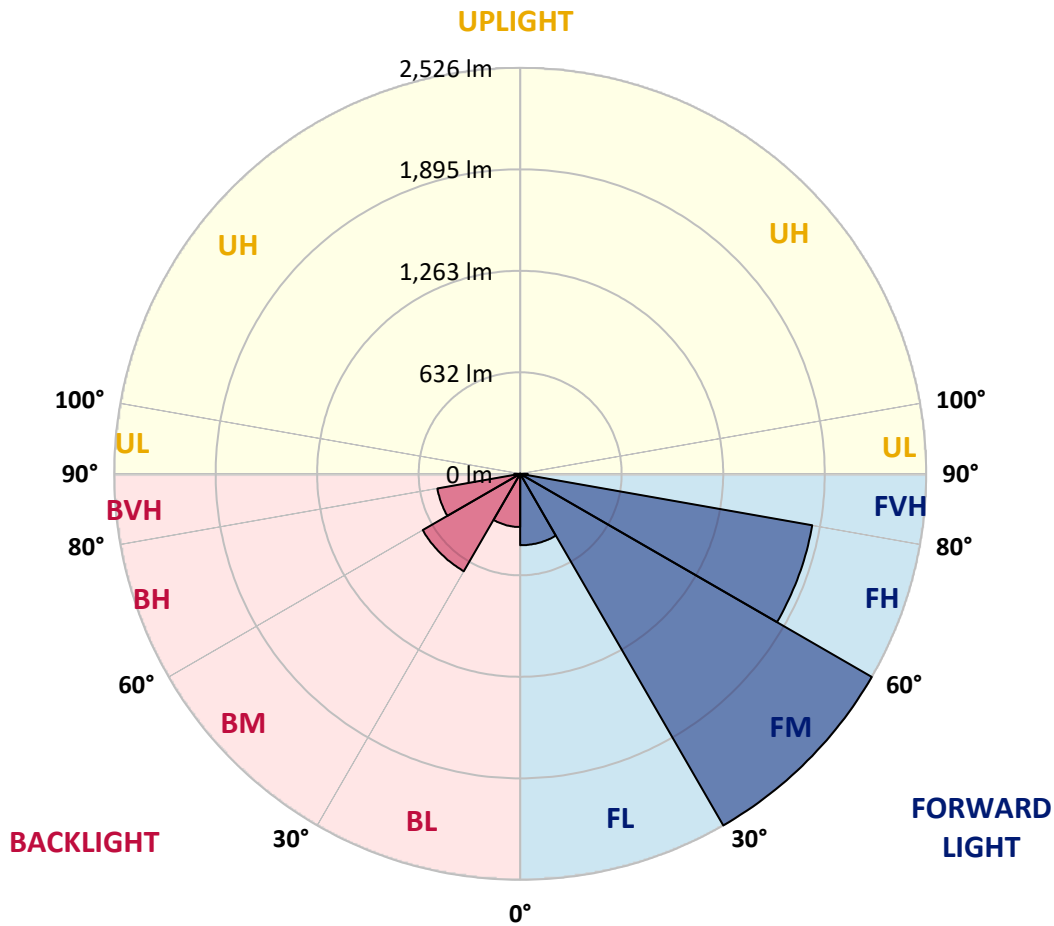
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.5	6.9			
FM (30°-60°)	2526.4	39.1			
FH (60°-80°)	1845.5	28.6			G2/5000
FVH (80°-90°)	47.3	0.7			G1/100
BL (0°-30°)	331.1	5.1	B1/500		
BM (30°-60°)	700.1	10.8	B1/1000		
BH (60°-80°)	523.0	8.1	B2/1000		G2/1000
BVH (80°-90°)	37.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	969.0	974.5	972.8	971.0	971.0	968.6	968.3	964.9	962.1	957.7
5°	981.3	987.1	986.5	987.8	992.3	993.3	994.3	992.3	986.8	981.3
7.5°	970.4	976.9	978.9	987.1	1000.8	1013.2	1022.4	1026.2	1021.1	1013.2
10°	933.4	940.6	947.8	967.3	991.6	1020.7	1045.4	1060.1	1059.1	1051.5
12.5°	858.4	865.9	881.3	919.3	963.9	1015.2	1061.1	1092.0	1102.6	1097.1
15°	798.4	804.9	816.6	855.6	913.5	991.6	1067.0	1126.9	1154.0	1150.9
17.5°	796.7	799.4	806.6	825.1	869.7	954.6	1060.8	1161.1	1212.9	1212.5
20°	826.8	827.9	832.0	835.7	861.1	926.5	1045.0	1189.6	1279.0	1279.0
22.5°	868.6	867.9	872.1	868.6	881.0	924.1	1035.1	1214.6	1352.6	1358.1
25°	931.3	927.9	926.9	919.0	921.4	946.4	1046.1	1243.0	1440.0	1451.3
27.5°	1014.9	1009.4	1005.6	987.5	981.3	992.3	1079.6	1277.3	1537.2	1556.8
30°	1123.8	1113.9	1108.4	1076.9	1054.6	1056.3	1130.3	1322.8	1639.0	1670.5
32.5°	1272.5	1257.0	1242.3	1190.6	1149.8	1136.5	1195.7	1385.8	1749.3	1799.6
35°	1438.9	1426.6	1410.8	1331.0	1268.4	1237.5	1284.1	1473.9	1878.4	1958.2
37.5°	1599.2	1588.6	1596.1	1488.6	1407.8	1362.9	1399.9	1592.0	2037.7	2155.5
40°	1765.0	1756.8	1757.8	1655.1	1560.9	1510.5	1540.3	1740.3	2220.2	2390.1
42.5°	1945.2	1939.0	1918.5	1827.3	1721.5	1674.6	1702.0	1911.6	2416.1	2657.3
45°	2146.9	2143.1	2124.0	2019.5	1898.2	1845.5	1882.5	2100.7	2613.1	2908.7
47.5°	2321.3	2324.3	2321.9	2233.9	2108.2	2030.8	2075.0	2298.0	2796.3	3145.0
50°	2405.2	2421.3	2444.9	2417.5	2339.4	2260.6	2269.2	2488.4	2971.0	3366.6
52.5°	2361.3	2391.8	2456.2	2500.1	2530.2	2513.8	2490.8	2677.5	3135.4	3566.7
55°	2198.0	2240.8	2347.6	2453.5	2607.3	2726.8	2756.9	2887.1	3295.7	3742.7
57.5°	1900.3	1969.8	2065.7	2279.8	2538.8	2829.9	3067.3	3177.9	3465.6	3930.8
60°	1389.9	1483.1	1602.3	1920.9	2299.0	2774.8	3331.4	3624.6	3707.1	4174.3
62.5°	889.5	947.1	1056.7	1356.7	1791.4	2492.2	3412.2	4182.9	4116.4	4573.7
65°	609.0	646.0	746.4	914.9	1158.1	1855.1	3195.7	4601.4	4766.5	5206.7
67.5°	442.5	470.6	556.3	703.9	754.6	1097.8	2479.8	4582.2	5398.5	5858.8
70°	322.7	342.5	414.4	556.3	580.6	610.7	1502.3	3895.1	5384.8	6032.1
72.5°	239.1	252.8	301.1	431.6	469.9	412.4	743.6	2830.9	4627.1	5456.0
75°	173.0	183.2	218.9	330.2	376.1	314.1	370.9	1654.4	3227.6	3837.9
77.5°	132.2	140.1	163.4	241.8	301.1	235.7	230.2	761.1	1530.4	1537.9
80°	106.2	111.3	124.0	170.2	230.9	176.4	150.0	307.2	483.6	409.3
82.5°	78.1	86.7	104.8	119.5	165.1	121.6	91.5	155.2	183.9	158.2
85°	44.5	50.4	63.4	85.6	105.5	74.3	52.4	68.8	85.6	70.2
87.5°	15.8	20.6	22.3	33.6	45.9	30.8	20.2	19.9	28.1	20.9
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°
946.4	0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
956.7	2.5°	953.2	951.5	944.7	935.4	925.8	916.6	913.5	907.0	902.5	900.1
978.9	5°	972.4	966.9	950.8	930.3	908.7	885.4	869.0	853.9	842.9	832.7
1009.4	7.5°	999.8	990.2	962.5	926.5	888.2	849.5	820.7	798.8	784.0	774.4
1045.0	10°	1031.7	1016.9	974.5	920.7	861.4	806.0	772.0	753.2	744.0	738.8
1085.8	12.5°	1068.3	1047.4	986.8	907.3	820.7	757.3	734.0	728.5	728.9	729.2
1137.2	15°	1113.5	1084.4	996.7	878.2	767.6	720.0	715.9	724.8	734.0	738.5
1195.4	17.5°	1164.6	1123.5	998.4	830.3	715.5	696.0	709.0	728.2	742.2	748.4
1260.5	20°	1219.4	1163.2	986.1	762.5	672.7	676.5	699.8	724.4	739.8	747.7
1334.8	22.5°	1282.1	1205.7	956.7	691.2	637.8	655.2	682.6	706.6	722.7	730.6
1422.1	25°	1353.6	1253.3	910.4	631.3	607.6	631.3	658.7	678.5	691.5	698.7
1519.8	27.5°	1433.1	1302.9	848.8	583.7	581.3	606.6	629.2	644.6	651.5	657.0
1623.5	30°	1512.9	1348.2	774.1	547.7	558.3	582.3	598.4	605.2	607.3	608.3
1739.3	32.5°	1599.2	1387.2	695.7	517.9	536.4	558.7	568.2	571.3	561.7	555.2
1879.8	35°	1703.7	1429.0	618.9	494.3	514.8	534.0	537.1	534.3	523.0	509.7
2055.8	37.5°	1832.8	1481.1	557.6	477.5	494.6	507.3	503.5	502.8	503.8	488.1
2267.5	40°	1991.1	1548.9	512.8	464.5	478.2	480.9	470.3	476.1	481.2	457.3
2499.7	42.5°	2166.8	1630.7	484.3	455.6	464.5	457.9	441.5	448.0	447.3	415.8
2733.0	45°	2345.9	1719.8	474.4	449.0	451.8	438.8	420.6	422.3	407.9	379.5
2956.6	47.5°	2524.0	1815.4	480.6	443.6	436.0	421.3	407.3	399.7	378.5	357.2
3171.1	50°	2698.7	1915.7	503.2	432.6	414.4	405.9	395.6	382.3	359.6	341.5
3373.8	52.5°	2860.7	2016.8	528.5	414.4	387.4	392.5	386.0	370.6	348.3	329.8
3565.6	55°	3014.2	2117.8	538.4	389.4	362.0	380.9	377.1	348.7	322.0	306.9
3766.4	57.5°	3181.3	2239.4	527.5	357.6	341.5	367.5	353.1	321.6	306.2	294.9
4027.7	60°	3412.9	2430.2	503.8	318.2	322.0	347.7	323.0	310.0	293.2	280.5
4419.5	62.5°	3797.5	2786.1	465.8	279.2	299.0	318.2	308.6	295.6	278.5	266.1
5089.5	65°	4366.1	3280.7	394.2	248.7	273.3	289.4	293.2	280.2	262.4	249.4
5676.6	67.5°	4845.6	3591.0	298.3	223.3	247.0	266.1	276.8	264.1	245.2	232.6
5813.9	70°	4819.3	3365.6	227.8	198.3	223.7	243.2	256.9	247.0	226.7	214.8
5281.0	72.5°	4280.5	2815.5	184.3	173.0	200.0	219.2	235.7	228.1	207.6	195.9
3868.8	75°	3144.7	1998.6	147.3	147.3	170.6	194.2	212.4	207.6	188.7	180.5
1624.2	77.5°	1325.6	838.5	115.4	122.3	141.8	166.8	189.4	191.1	174.7	185.0
429.5	80°	352.5	231.2	88.0	96.2	111.3	137.7	164.8	164.1	146.3	136.7
159.6	82.5°	134.3	91.1	62.7	67.8	80.5	105.5	130.5	134.6	116.8	101.0
62.7	85°	51.7	39.0	38.7	40.8	46.9	69.9	98.6	102.1	88.0	74.7
17.5	87.5°	13.4	11.6	14.4	13.7	21.6	37.3	56.5	58.6	53.8	31.2
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>
946.4
902.9
836.8
776.5
740.2
729.9
738.1
749.8
749.8
732.7
700.8
659.0
610.7
557.3
510.4
489.1
457.9
415.5
380.5
357.2
340.1
330.2
305.5
293.9
279.8
266.1
250.0
232.9
215.8
195.9
178.1
167.8
127.1
101.0
77.1
44.5
0.0

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