

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: P945812

Luminaire Tested: **GALN-SB1C-927-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
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-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4621 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

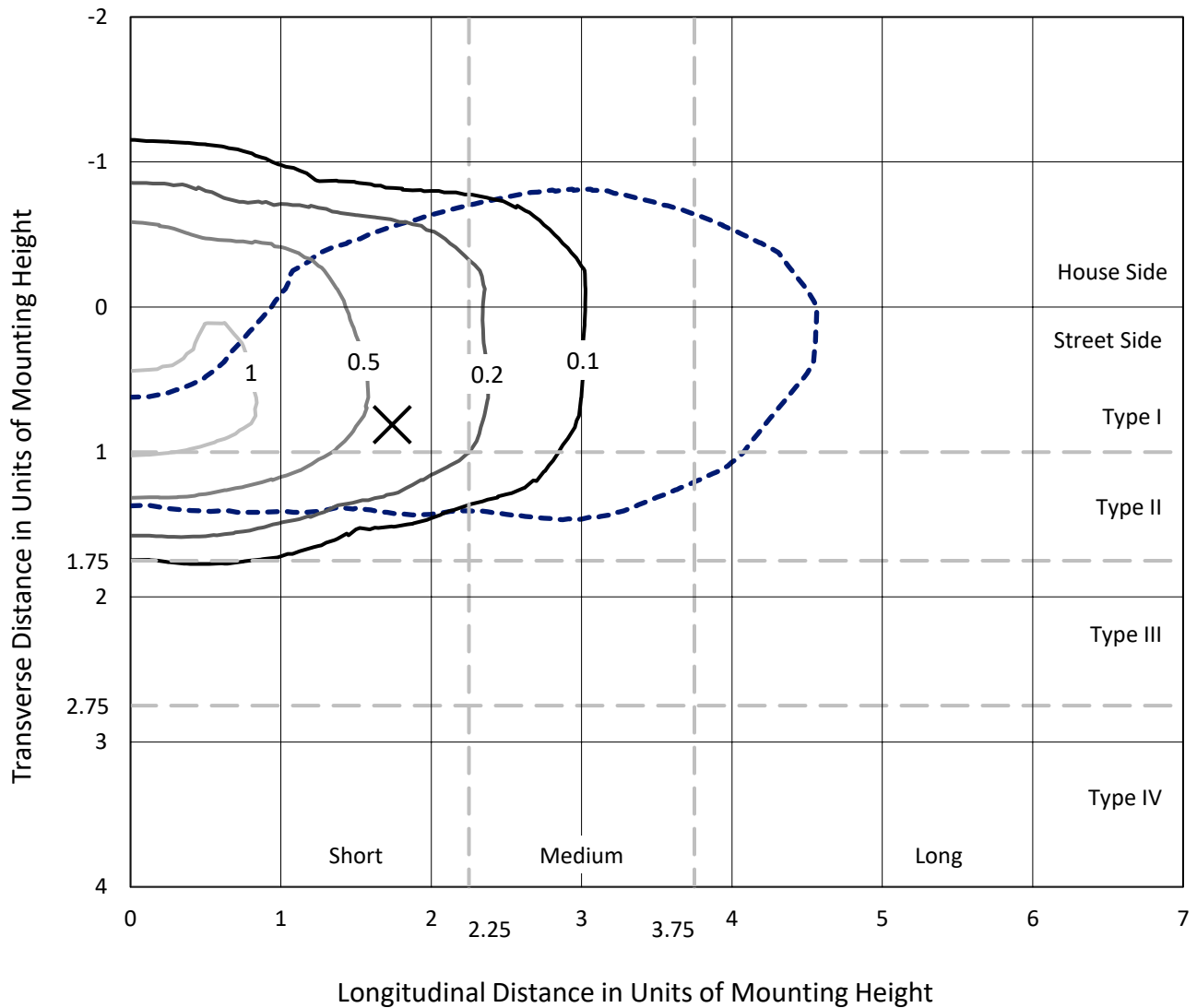
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

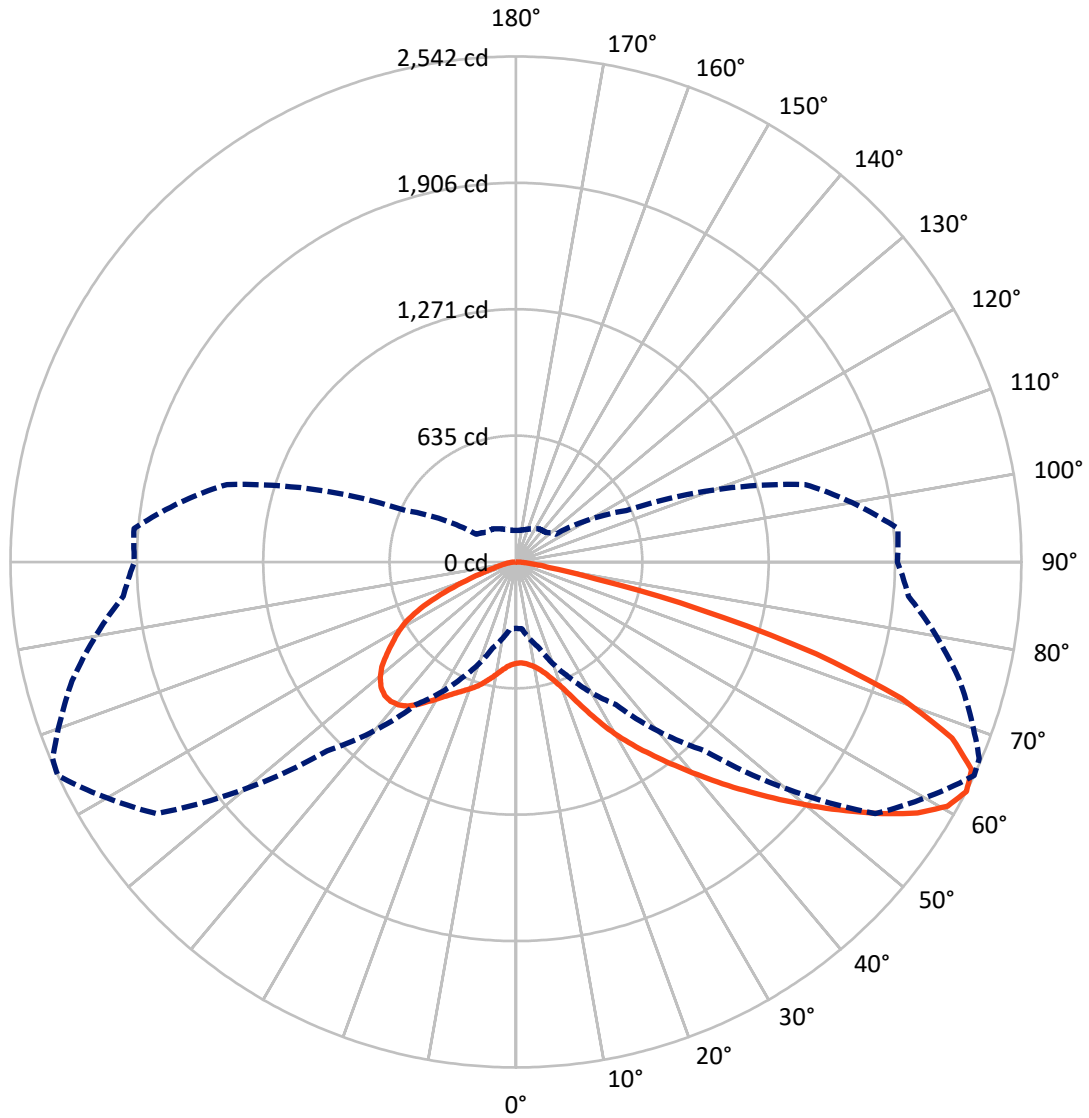
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1458.2	0.0	1458.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	3162.8	0.0	3162.8
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	4621.0	0.0	4621.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	1.1
10°-20°	172.2	3.7
20°-30°	349.1	7.6
30°-40°	604.1	13.1
40°-50°	914.1	19.8
50°-60°	1071.8	23.2
60°-70°	898.5	19.4
70°-80°	496.1	10.7
80°-90°	64.4	1.4
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°	4621.0	100.0
0°-180°	4621.0	100.0

**Coefficient of Utilization**



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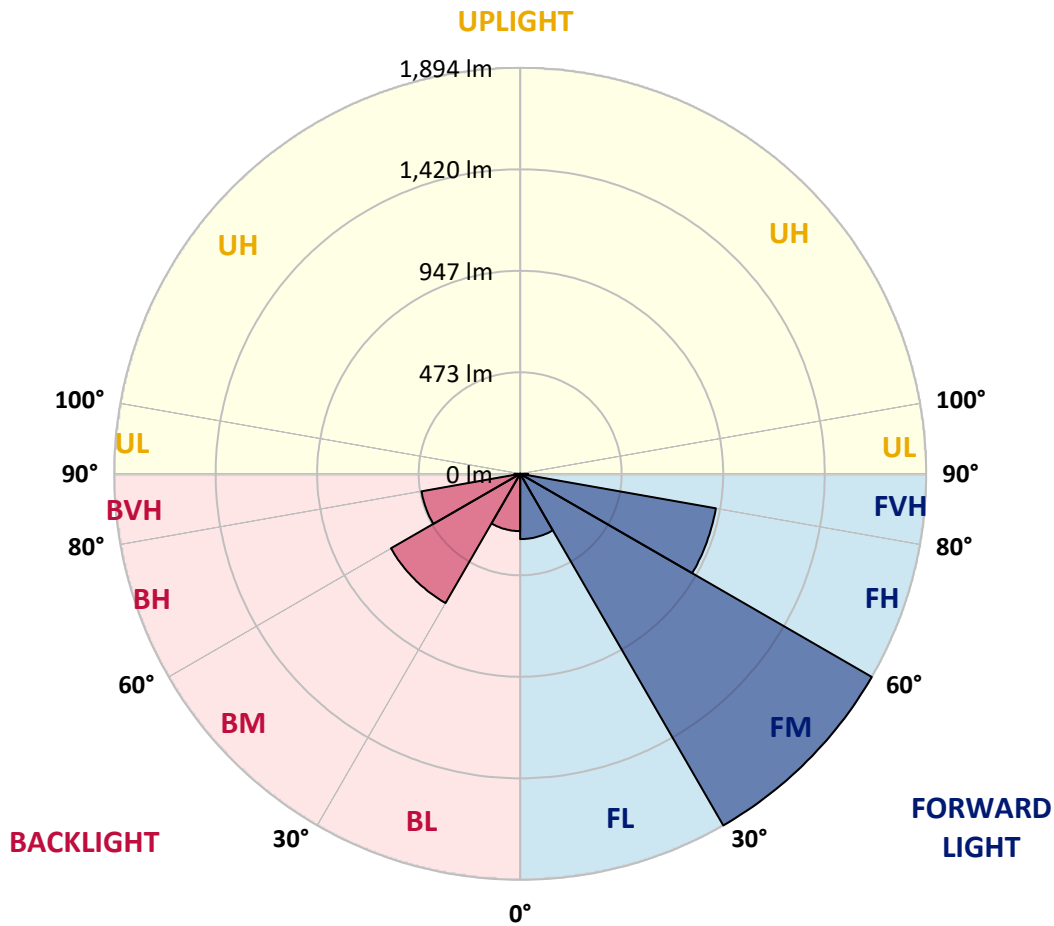
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.6	6.6			
FM (30°-60°)	1893.8	41.0			
FH (60°-80°)	926.8	20.1			G1/1800
FVH (80°-90°)	37.6	0.8			G1/100
BL (0°-30°)	267.4	5.8	B1/500		
BM (30°-60°)	696.1	15.1	B1/1000		
BH (60°-80°)	467.8	10.1	B1/500		G1/500
BVH (80°-90°)	26.9	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
2.5°	505.9	504.4	505.6	505.6	506.1	505.9	507.5	508.0	508.7	510.2
5°	500.8	500.6	502.7	504.7	506.6	508.3	510.4	513.5	514.0	515.7
7.5°	499.1	497.7	501.1	503.5	508.0	512.1	517.8	523.1	525.3	526.0
10°	512.1	509.7	512.8	514.2	518.1	522.2	528.9	537.3	539.7	542.5
12.5°	534.1	531.5	536.1	538.2	541.8	545.4	550.0	558.1	559.3	564.6
15°	564.4	561.2	564.1	566.8	572.7	576.1	580.7	588.6	588.6	592.6
17.5°	605.4	601.3	603.4	604.4	608.2	613.3	620.9	627.9	631.5	630.0
20°	666.5	661.5	661.5	656.7	655.2	659.3	669.4	679.0	682.8	675.4
22.5°	758.3	751.1	747.0	730.7	724.3	724.7	734.8	746.6	749.7	736.5
25°	875.1	863.8	858.3	834.3	819.7	807.0	814.9	830.0	834.3	818.0
27.5°	991.8	992.5	987.3	958.5	934.3	911.0	906.9	922.8	927.3	908.9
30°	1155.6	1138.5	1128.5	1093.9	1059.4	1026.8	1010.0	1016.5	1017.7	995.7
32.5°	1296.8	1292.5	1270.9	1240.7	1196.3	1145.3	1117.2	1106.9	1105.0	1073.6
35°	1457.6	1455.2	1432.5	1396.5	1348.6	1277.6	1227.0	1197.5	1195.1	1151.0
37.5°	1621.1	1621.1	1598.8	1559.5	1509.9	1421.2	1344.2	1297.5	1289.8	1232.3
40°	1751.6	1743.7	1747.7	1731.2	1674.4	1580.1	1474.4	1406.6	1396.3	1327.2
42.5°	1825.6	1823.0	1847.5	1865.9	1842.7	1767.4	1617.8	1524.8	1510.4	1431.7
45°	1842.2	1839.3	1882.9	1950.5	1983.2	1952.2	1773.6	1649.2	1631.7	1541.1
47.5°	1804.1	1798.3	1862.3	1969.0	2073.5	2128.0	1942.4	1784.2	1758.8	1647.5
50°	1689.5	1684.0	1780.8	1922.5	2104.0	2247.4	2125.6	1927.3	1888.5	1761.6
52.5°	1440.4	1443.0	1594.8	1789.4	2063.9	2321.7	2283.3	2078.1	2031.3	1878.4
55°	1122.0	1127.8	1314.3	1528.6	1903.8	2310.4	2391.0	2233.4	2186.9	1988.2
57.5°	803.4	828.8	1003.6	1215.7	1596.2	2131.8	2414.5	2381.1	2336.1	2108.1
60°	520.7	525.3	705.1	918.9	1215.5	1814.4	2366.7	2493.1	2457.8	2230.3
62.5°	333.7	336.8	446.4	642.8	874.8	1342.3	2206.1	2541.8	2531.0	2311.1
65°	245.3	242.9	299.9	424.8	589.3	827.8	1894.2	2518.3	2539.6	2361.7
67.5°	204.7	201.4	229.4	294.2	434.2	470.1	1401.5	2365.5	2443.7	2356.0
70°	186.5	183.6	200.7	218.4	338.8	314.8	706.5	2056.5	2176.9	2290.5
72.5°	158.0	153.0	176.2	194.0	263.5	241.4	292.0	1579.7	1726.4	2080.7
75°	122.5	119.2	139.1	170.7	198.0	188.4	184.6	959.2	1119.4	1609.2
77.5°	97.1	92.5	110.8	133.1	178.1	142.2	134.5	413.1	571.8	1027.3
80°	73.1	69.0	84.1	105.2	136.9	107.2	87.0	168.5	215.5	520.5
82.5°	52.0	48.4	58.7	77.2	92.1	96.1	53.5	94.5	106.2	200.7
85°	33.3	31.2	39.3	48.4	58.5	61.9	32.6	49.4	54.2	82.7
87.5°	18.2	14.9	21.1	22.5	27.1	24.7	15.6	18.0	19.4	30.0
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°
509.2	0°	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2	509.2
510.2	2.5°	511.1	511.9	514.2	515.0	516.6	518.8	520.2	521.7	521.7	523.1
517.8	5°	518.1	519.8	524.8	527.4	531.8	536.1	538.7	541.8	543.7	544.7
530.1	7.5°	531.5	534.1	541.3	545.9	553.3	559.3	563.4	567.7	568.7	571.3
547.1	10°	549.7	552.8	561.0	569.6	578.5	585.9	589.8	592.9	594.1	594.6
568.9	12.5°	570.6	575.1	585.7	596.2	605.6	612.1	613.0	612.3	608.9	606.1
595.8	15°	596.2	600.3	612.1	623.6	632.7	633.9	627.9	624.1	620.0	619.3
625.7	17.5°	626.9	629.1	639.9	651.1	651.9	647.8	638.9	635.3	631.5	628.8
664.8	20°	662.6	661.9	669.6	674.4	669.4	656.9	643.5	637.5	633.6	630.5
712.8	22.5°	705.3	699.8	698.9	697.7	684.2	658.1	639.9	632.2	626.2	621.9
779.6	25°	767.4	746.3	731.7	723.5	693.3	651.6	628.4	611.3	600.1	592.6
861.4	27.5°	845.1	809.6	772.7	752.8	693.3	638.4	600.6	573.0	554.5	546.9
940.5	30°	919.2	882.0	827.6	788.0	691.7	616.9	555.7	517.4	495.8	488.1
1008.1	32.5°	982.5	942.0	885.9	826.6	687.6	581.9	500.1	457.7	436.8	427.7
1075.0	35°	1041.2	998.1	944.3	869.1	676.8	530.6	439.0	406.6	383.3	368.7
1143.1	37.5°	1101.4	1050.1	999.7	907.4	657.4	470.6	392.0	364.4	337.1	317.4
1215.5	40°	1166.8	1105.5	1058.9	930.2	625.5	413.6	355.5	330.4	301.4	280.5
1298.9	42.5°	1243.3	1171.9	1124.9	942.0	581.9	373.0	331.8	307.1	279.8	262.8
1388.4	45°	1323.1	1245.0	1185.0	941.7	533.2	354.1	324.1	299.7	269.5	251.7
1480.2	47.5°	1406.8	1321.5	1237.1	926.4	491.0	356.7	319.8	283.6	250.3	233.0
1573.0	50°	1490.7	1405.1	1287.4	897.6	473.0	351.0	303.8	261.1	221.8	206.2
1660.0	52.5°	1573.9	1494.1	1330.8	856.6	454.8	329.6	283.1	231.8	210.0	199.2
1749.9	55°	1657.6	1582.1	1378.0	796.9	409.2	304.7	248.6	220.8	200.7	190.8
1837.9	57.5°	1741.5	1683.7	1422.9	737.2	351.9	274.0	229.7	207.4	191.3	182.9
1911.5	60°	1828.8	1800.0	1469.1	682.3	295.4	234.7	215.8	196.6	180.3	170.9
1982.2	62.5°	1918.7	1928.0	1505.3	611.6	243.3	210.7	203.3	183.6	167.8	158.9
2040.7	65°	2009.3	2051.5	1529.1	513.5	197.3	188.0	189.9	169.5	153.4	145.8
2083.6	67.5°	2077.6	2140.4	1522.4	388.6	161.8	166.4	173.1	154.6	139.5	133.5
2076.7	70°	2085.3	2129.9	1456.2	266.1	135.5	145.3	154.4	140.0	124.4	120.1
1978.8	72.5°	1983.2	1986.0	1271.8	173.8	114.6	127.5	134.7	125.1	110.0	105.7
1731.2	75°	1715.4	1642.5	933.8	114.6	95.9	109.6	116.3	109.6	94.9	95.9
1295.3	77.5°	1299.6	1163.2	567.0	81.5	80.1	92.1	101.2	96.4	83.9	94.2
651.4	80°	669.6	629.3	252.9	60.9	63.3	73.6	83.2	77.0	66.4	63.3
145.5	82.5°	153.4	178.4	99.7	43.6	45.8	53.0	63.5	57.8	47.7	40.3
60.7	85°	53.7	58.7	44.1	27.3	26.9	33.1	43.2	38.6	32.4	25.9
25.7	87.5°	17.0	22.3	16.5	11.0	11.5	14.9	19.9	18.2	15.1	9.8
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>
509.2
523.1
545.2
570.3
593.4
606.1
619.3
629.1
630.8
623.3
595.5
550.7
492.7
432.3
373.5
322.7
284.6
266.1
254.6
235.4
207.1
199.2
189.9
181.5
170.2
158.7
145.5
133.8
120.4
105.5
92.5
83.0
57.8
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27.3
10.3
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