

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: P939139

Luminaire Tested: **GALN-SB1C-830-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-830-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

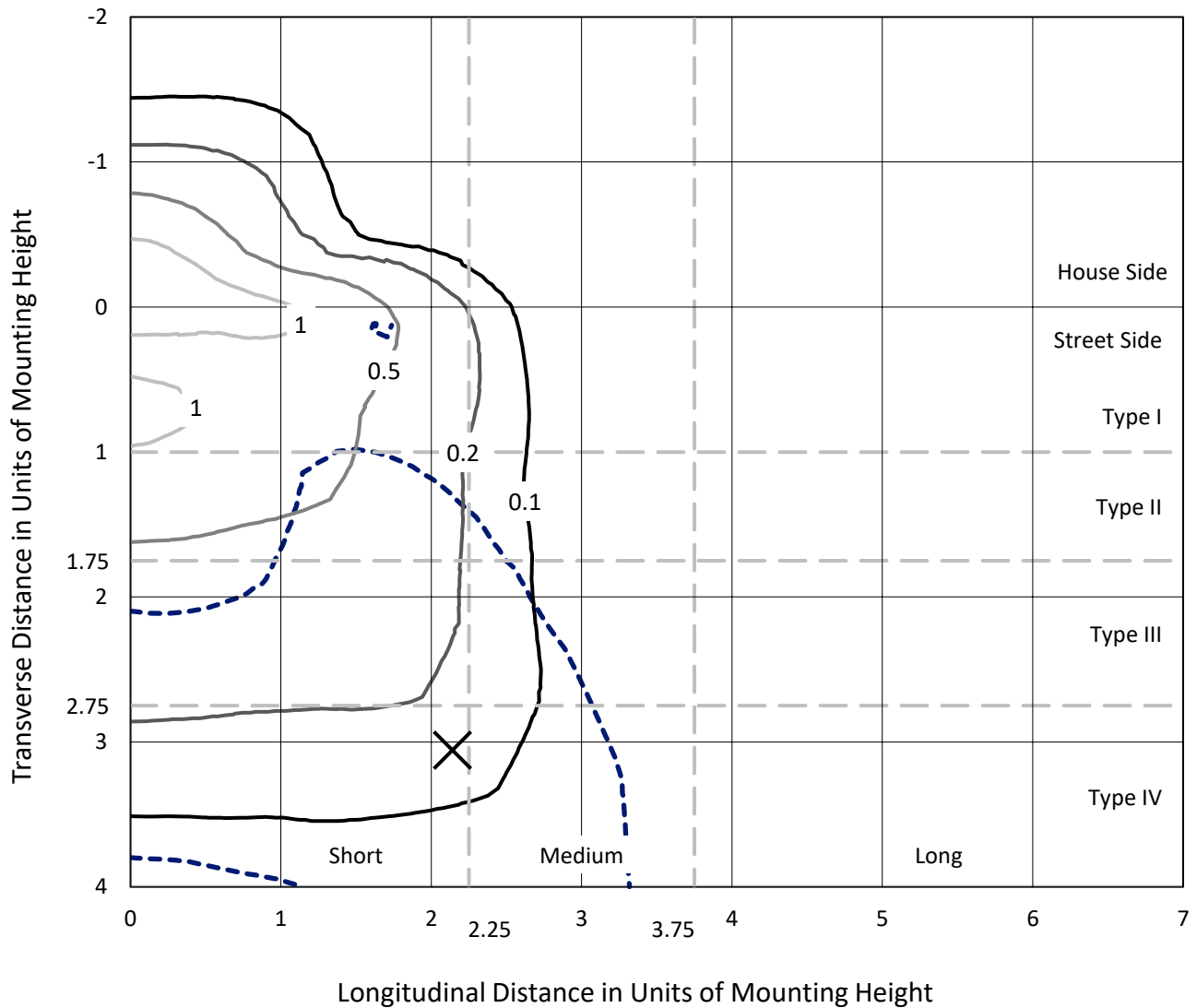
Lumens per Lamp: N/A  
Luminaire Lumens: 6653 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

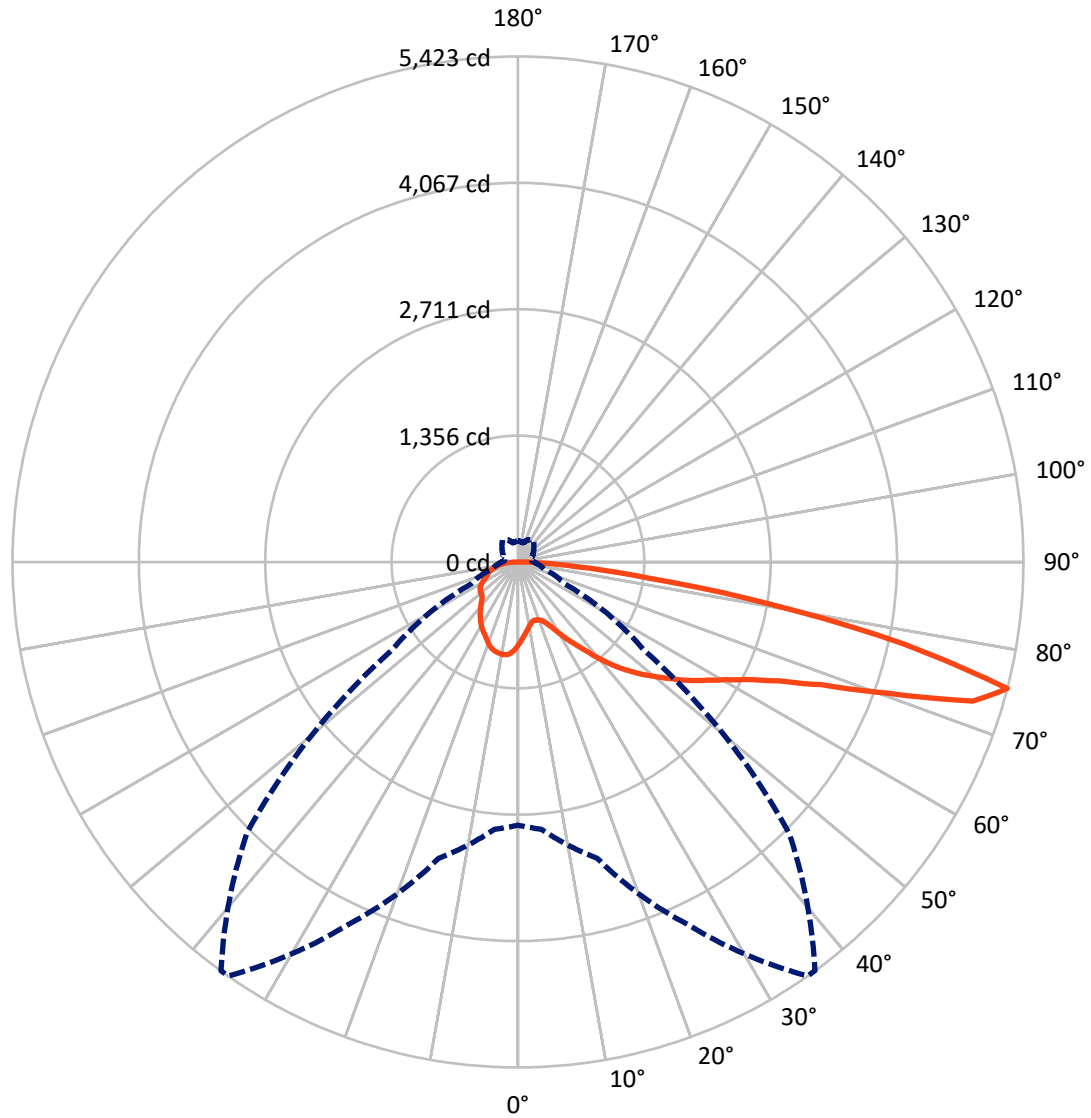
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1583.2	0.0	1583.2
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	5069.8	0.0	5069.8
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	6653.0	0.0	6653.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	1.3
10°-20°	242.1	3.6
20°-30°	406.6	6.1
30°-40°	631.9	9.5
40°-50°	937.9	14.1
50°-60°	1294.8	19.5
60°-70°	1570.9	23.6
70°-80°	1298.2	19.5
80°-90°	186.7	2.8
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°	6653.0	100.0
0°-180°	6653.0	100.0

**Coefficient of Utilization**



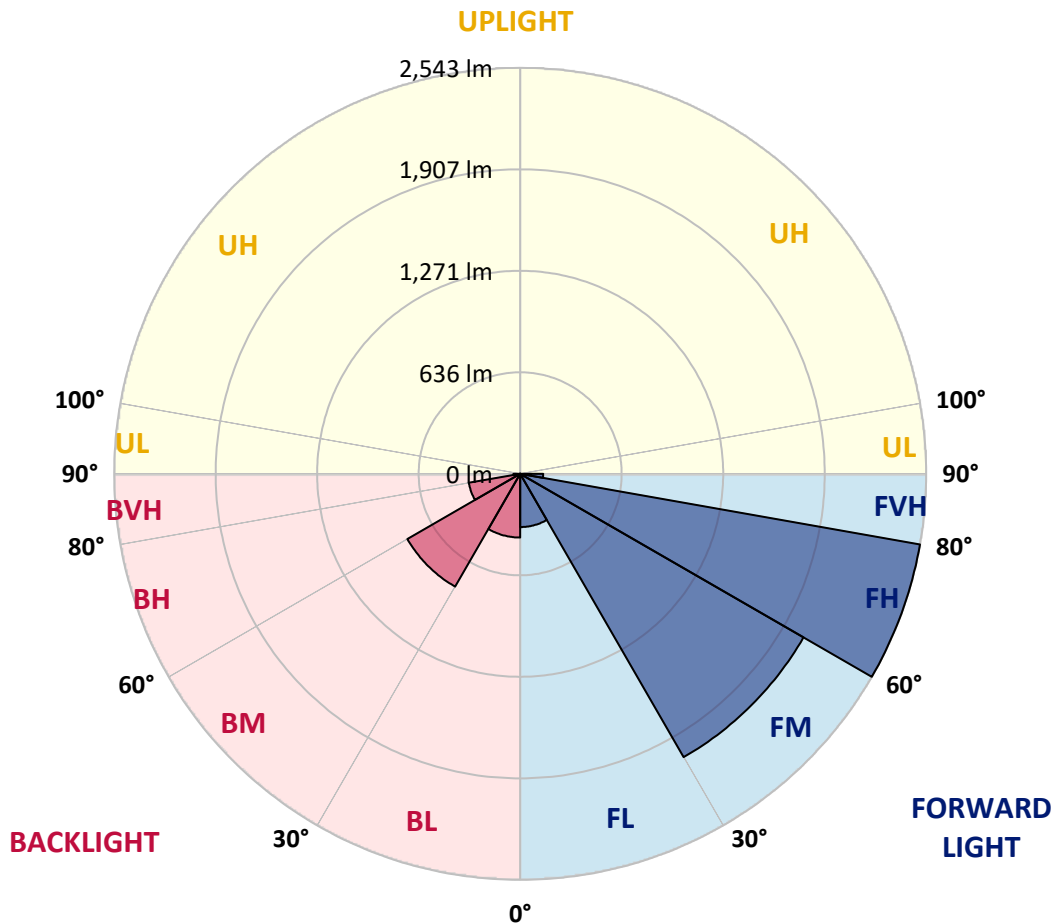
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.6	5.0			
FM (30°-60°)	2048.8	30.8			
FH (60°-80°)	2542.7	38.2			G2/5000
FVH (80°-90°)	144.7	2.2			G2/225
BL (0°-30°)	399.0	6.0	B1/500		
BM (30°-60°)	815.8	12.3	B1/1000		
BH (60°-80°)	326.4	4.9	B1/500		G1/500
BVH (80°-90°)	42.0	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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6
2.5°	817.5	822.5	824.7	823.6	829.0	828.3	835.8	845.2	858.1	870.7
5°	754.6	760.0	764.6	768.9	779.4	782.6	794.5	812.5	836.2	860.3
7.5°	695.9	700.6	707.8	715.7	733.3	736.6	756.4	784.4	817.5	852.7
10°	648.1	652.8	660.3	669.3	691.3	695.2	720.4	757.8	801.0	845.6
12.5°	627.6	629.0	633.4	642.3	661.4	663.9	691.6	734.4	784.8	840.2
15°	626.5	629.4	629.8	634.4	650.3	651.3	676.9	719.3	774.7	839.1
17.5°	637.3	639.5	636.2	639.1	652.4	654.2	674.4	712.1	771.5	843.8
20°	666.1	667.9	658.2	654.2	663.9	665.4	685.1	716.8	774.7	853.5
22.5°	727.2	728.3	704.6	688.4	689.1	689.8	707.1	735.9	787.3	871.1
25°	822.5	821.8	784.1	752.8	734.8	730.8	742.3	766.8	808.5	894.5
27.5°	934.0	928.6	890.9	844.1	804.9	799.2	796.6	807.1	838.7	925.4
30°	1059.9	1054.9	1014.2	953.1	898.8	889.4	865.7	860.3	883.7	967.5
32.5°	1198.0	1194.8	1146.2	1072.1	999.5	988.7	948.8	934.4	952.7	1031.1
35°	1313.8	1311.0	1270.7	1194.4	1105.6	1092.3	1051.6	1035.5	1044.8	1112.8
37.5°	1418.5	1417.1	1382.5	1322.5	1230.8	1214.6	1168.9	1163.5	1161.7	1220.3
40°	1515.6	1512.0	1476.0	1444.4	1376.4	1361.7	1321.4	1316.7	1303.0	1352.7
42.5°	1623.1	1613.8	1561.6	1546.9	1528.5	1516.3	1492.2	1492.9	1462.7	1501.9
45°	1710.9	1705.5	1651.9	1643.3	1663.1	1658.0	1678.9	1684.3	1625.7	1658.4
47.5°	1805.1	1800.1	1754.8	1748.7	1802.2	1803.7	1877.4	1879.2	1784.6	1820.9
50°	1921.3	1914.1	1869.1	1876.7	1936.8	1942.2	2077.0	2064.8	1931.0	1986.0
52.5°	1997.9	2002.2	1992.5	2004.7	2086.7	2091.8	2273.4	2242.1	2075.9	2149.0
55°	2054.4	2063.0	2093.2	2121.3	2245.0	2250.0	2458.6	2410.8	2196.1	2300.0
57.5°	2127.0	2114.8	2171.3	2225.9	2395.3	2408.6	2638.8	2573.4	2302.5	2430.2
60°	2231.3	2222.7	2266.6	2347.5	2563.6	2584.9	2829.4	2719.7	2380.6	2533.4
62.5°	2442.8	2421.2	2428.1	2499.6	2775.8	2803.9	3044.5	2847.4	2419.4	2573.7
65°	2758.9	2721.9	2687.4	2737.0	3074.7	3102.4	3287.3	2947.8	2405.0	2495.7
67.5°	3157.1	3120.4	3078.0	3124.7	3514.9	3536.9	3586.9	3004.2	2291.7	2195.0
70°	3485.4	3471.8	3522.5	3714.9	4218.1	4218.8	3971.0	2957.5	1981.4	1556.2
72.5°	3441.9	3433.7	3700.9	4295.8	5104.3	5085.2	4334.6	2603.6	1334.7	702.1
75°	2823.7	2877.3	3291.2	4285.3	5422.6	5420.0	4112.0	1655.1	552.1	291.0
77.5°	1514.2	1599.0	2136.7	3163.9	4233.2	4296.8	2890.9	579.0	237.0	186.3
80°	493.8	567.9	851.7	1610.9	2750.7	2738.8	1239.0	227.3	162.2	132.0
82.5°	209.7	218.3	380.5	760.7	1411.7	1389.7	394.5	130.6	114.0	90.3
85°	82.0	91.7	168.0	351.7	611.4	598.1	142.4	64.7	73.0	59.0
87.5°	27.0	32.7	60.1	120.5	190.3	183.4	34.9	22.3	31.6	27.0
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°
886.6	0°	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6	886.6
889.1	2.5°	894.1	899.9	906.7	916.8	925.4	932.6	940.1	944.8	946.6	952.0
890.5	5°	900.6	913.2	930.1	946.6	962.8	972.5	981.1	985.5	989.4	992.3
894.5	7.5°	911.4	927.6	954.2	975.8	989.4	997.3	1003.1	1001.6	1003.1	1003.8
898.8	10°	920.7	943.4	975.0	995.5	1006.0	1006.3	1004.9	999.8	997.3	997.7
905.3	12.5°	931.9	957.1	991.2	1008.5	1011.4	1003.4	997.3	988.7	985.5	984.0
915.0	15°	947.0	975.8	1008.8	1015.3	1008.1	998.1	987.6	973.6	966.4	960.6
931.5	17.5°	965.3	997.0	1022.5	1017.8	1002.4	985.8	968.9	947.7	933.0	926.8
954.2	20°	990.9	1019.3	1032.9	1012.4	989.1	963.9	935.1	909.2	895.5	889.4
982.9	22.5°	1021.8	1049.1	1043.0	1003.1	970.0	929.7	893.8	874.7	867.9	863.5
1020.0	25°	1058.8	1082.2	1050.2	989.4	938.7	884.4	856.7	850.6	847.4	844.1
1065.3	27.5°	1107.0	1119.6	1055.6	969.3	889.8	836.2	826.1	827.2	826.1	820.7
1128.2	30°	1170.7	1168.2	1060.6	936.5	833.7	792.7	793.4	798.1	798.8	795.2
1216.0	32.5°	1254.5	1229.0	1063.1	894.1	780.1	754.6	755.3	760.3	763.9	757.8
1330.7	35°	1355.9	1299.8	1059.2	840.9	738.7	718.2	712.8	714.3	715.4	709.6
1469.9	37.5°	1474.2	1379.3	1041.6	781.9	704.6	682.6	671.1	661.4	655.7	650.3
1627.5	40°	1604.1	1466.0	1009.2	724.4	666.4	644.9	627.6	609.3	589.8	582.6
1794.3	42.5°	1740.0	1555.2	970.0	669.3	622.6	604.9	586.6	560.0	530.9	516.1
1967.7	45°	1881.0	1646.5	931.5	615.0	577.6	570.1	548.8	516.8	485.2	466.5
2141.4	47.5°	2019.1	1732.8	875.0	560.3	535.5	543.8	527.3	497.8	462.5	433.0
2313.7	50°	2151.1	1813.8	782.6	505.0	501.4	535.9	520.1	477.6	437.3	399.6
2482.7	52.5°	2282.0	1879.2	664.3	454.6	483.0	533.7	510.7	464.0	414.7	375.1
2641.7	55°	2393.2	1913.0	550.3	411.4	456.4	515.4	499.6	447.8	382.7	340.6
2750.7	57.5°	2456.5	1885.7	455.3	369.0	419.7	485.2	480.5	413.2	344.6	312.2
2771.9	60°	2429.1	1774.9	377.6	332.0	384.8	452.4	447.4	379.1	315.4	284.8
2658.2	62.5°	2278.4	1563.8	316.1	299.6	353.2	419.0	414.3	352.8	293.1	263.6
2356.5	65°	1974.9	1272.1	268.3	272.6	321.2	378.7	385.6	330.9	275.5	246.7
1823.1	67.5°	1506.2	921.4	230.9	249.2	289.9	339.2	358.9	315.1	260.8	233.4
1054.9	70°	858.5	523.3	199.3	226.6	262.2	302.5	338.4	302.5	244.9	222.3
395.3	72.5°	325.5	240.3	172.3	203.9	235.6	271.5	315.8	282.7	226.6	209.7
204.3	75°	173.7	146.4	144.9	177.3	205.0	241.3	287.4	263.3	212.9	221.5
141.3	77.5°	118.3	103.6	121.2	151.8	171.6	207.9	257.2	233.8	184.5	183.8
97.8	80°	82.0	73.4	98.5	122.3	132.7	174.8	224.4	200.7	150.3	140.3
60.4	82.5°	49.3	47.8	73.7	91.4	93.9	134.9	185.9	168.3	123.0	107.2
36.0	85°	27.0	28.4	47.1	53.6	54.7	94.2	145.7	130.2	94.6	79.5
12.9	87.5°	7.6	9.7	17.3	21.2	26.3	48.9	86.7	77.3	47.5	33.1
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>
886.6
951.7
993.0
1004.9
998.4
983.3
962.4
927.2
888.7
864.3
844.1
821.8
797.0
760.7
713.6
653.9
585.9
517.9
465.0
429.8
396.3
370.8
337.0
307.9
280.5
259.0
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134.2
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