

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: P939099

Luminaire Tested: **GALN-SB1C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939099
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-740-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7834 lumens
Efficiency: N/A
Efficacy: 144.0 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

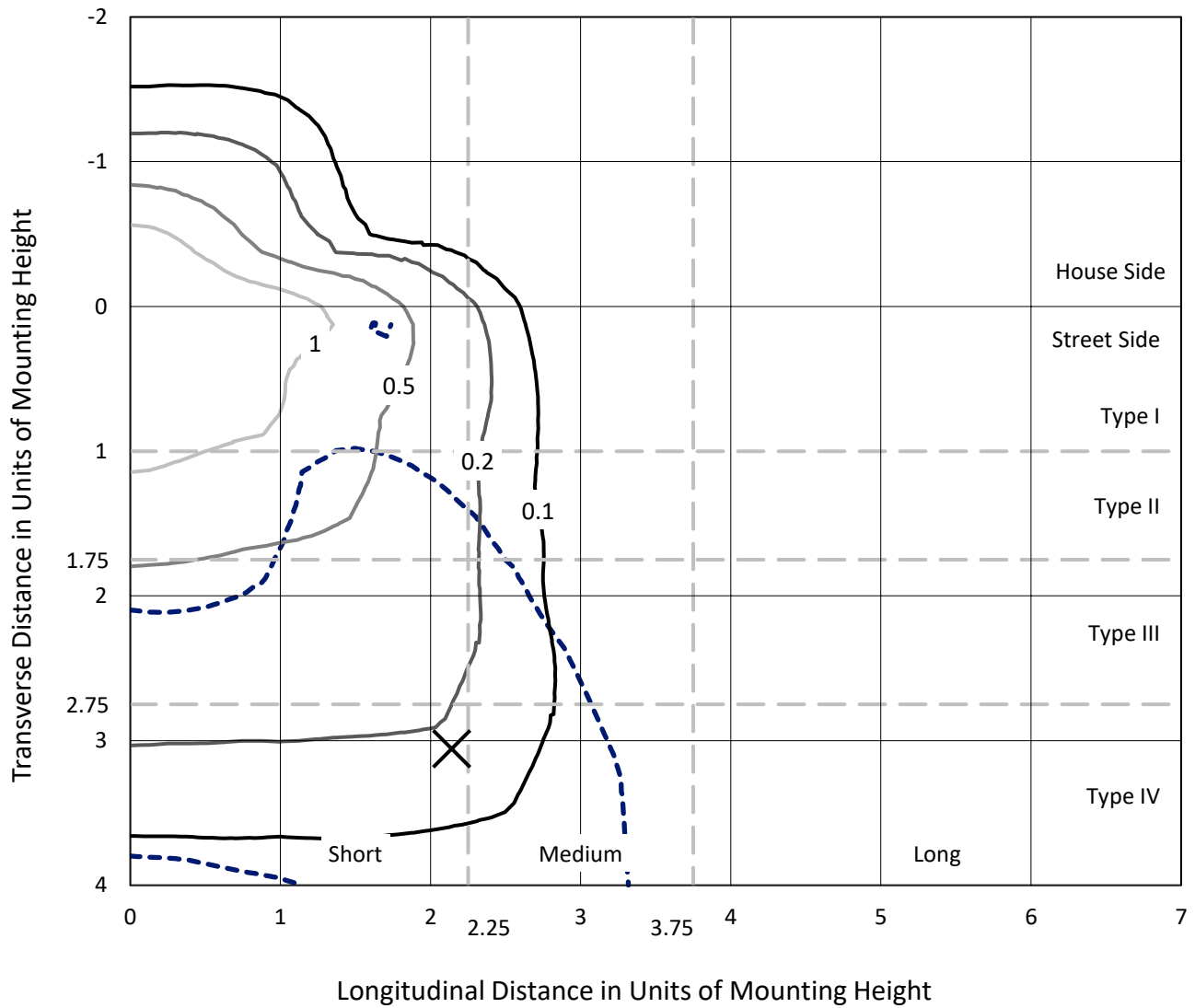
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

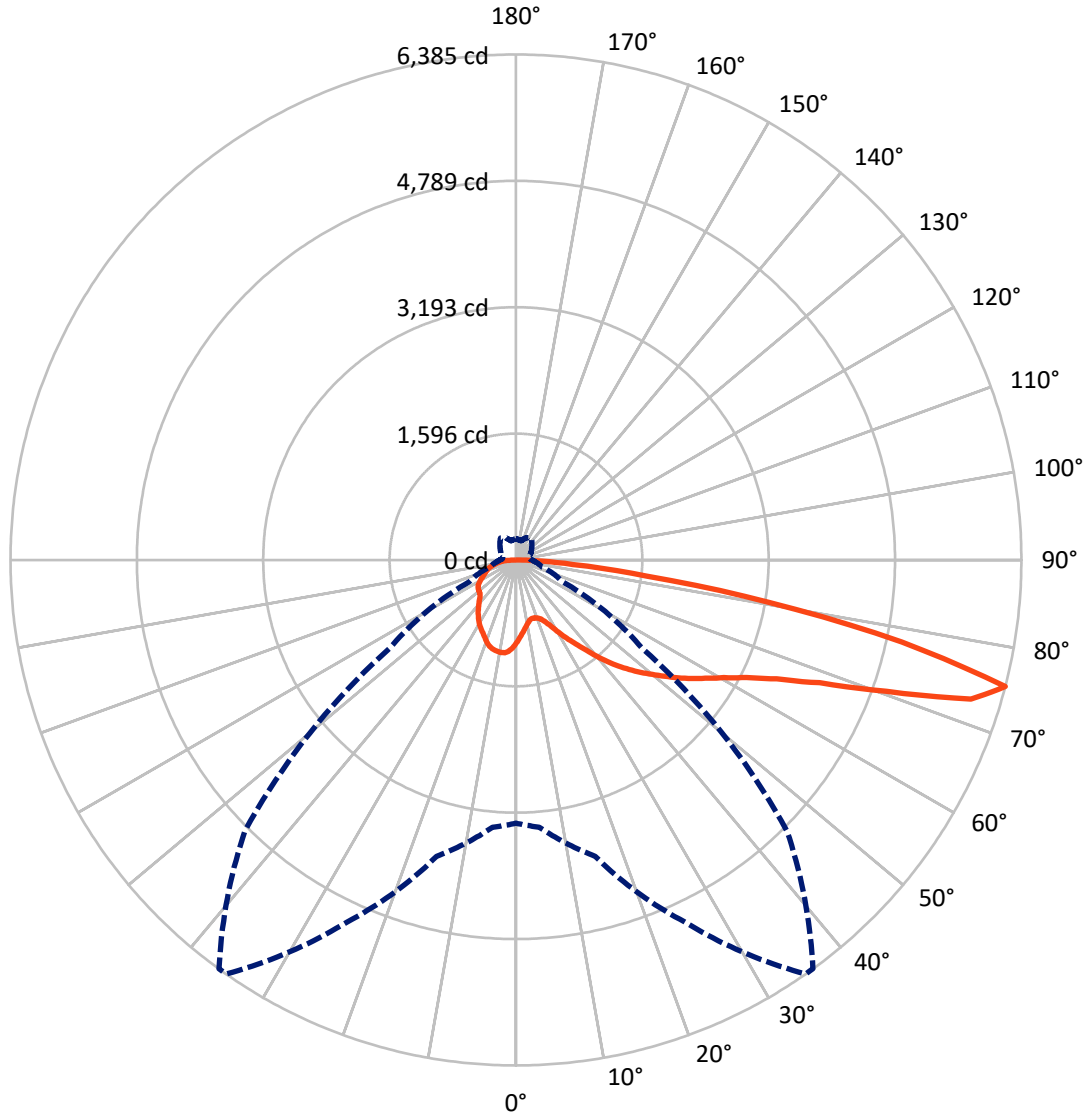
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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
House Side	Lumens	1864.3	0.0	1864.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5969.7	0.0	5969.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	7834.0	0.0	7834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.3
10°-20°	285.1	3.6
20°-30°	478.8	6.1
30°-40°	744.0	9.5
40°-50°	1104.4	14.1
50°-60°	1524.6	19.5
60°-70°	1849.7	23.6
70°-80°	1528.7	19.5
80°-90°	219.9	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°	7834.0	100.0
0°-180°	7834.0	100.0

Coefficient of Utilization



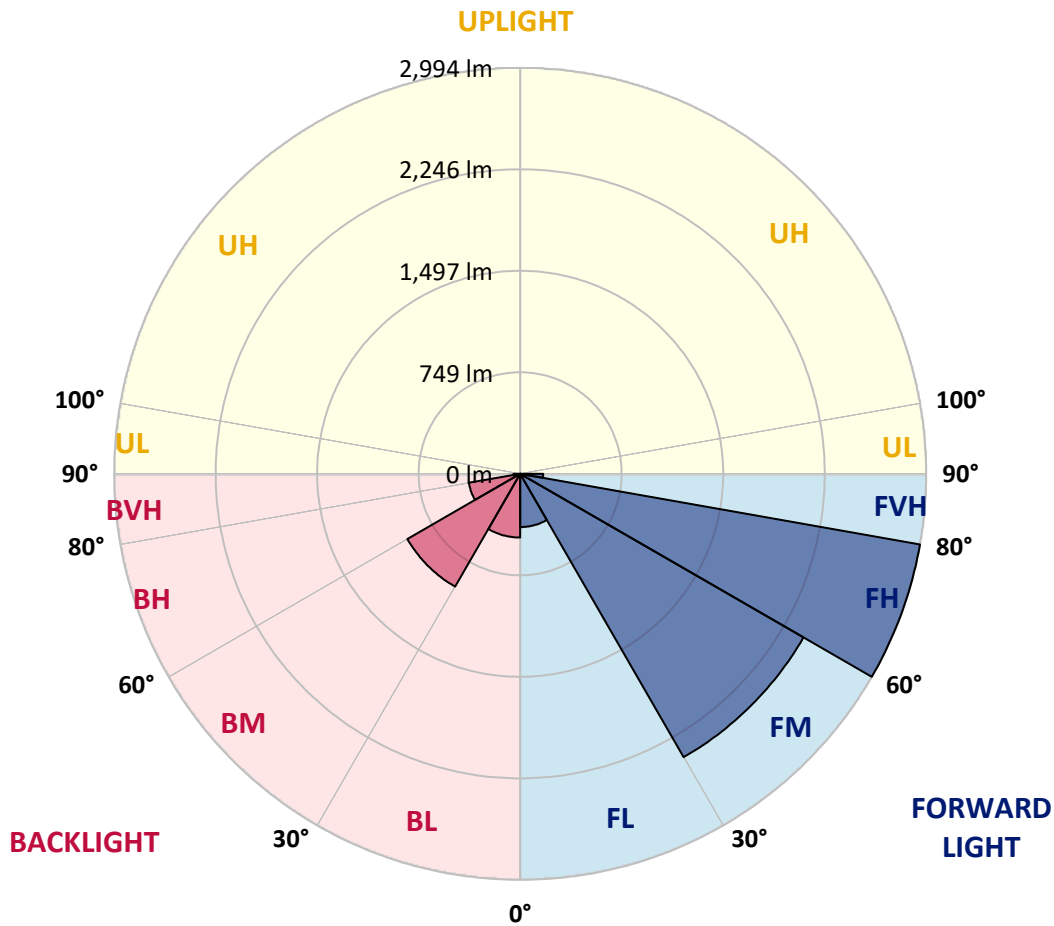
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.9	5.0			
FM (30°-60°)	2412.4	30.8			
FH (60°-80°)	2994.0	38.2			G2/5000
FVH (80°-90°)	170.4	2.2			G2/225
BL (0°-30°)	469.8	6.0	B1/500		
BM (30°-60°)	960.6	12.3	B1/1000		
BH (60°-80°)	384.4	4.9	B1/500		G1/500
BVH (80°-90°)	49.5	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°	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9
2.5°	962.6	968.6	971.1	969.8	976.2	975.3	984.2	995.2	1010.5	1025.3
5°	888.5	894.9	900.4	905.4	917.7	921.5	935.5	956.7	984.6	1013.0
7.5°	819.5	825.0	833.5	842.8	863.5	867.3	890.6	923.7	962.6	1004.1
10°	763.2	768.7	777.6	788.1	814.0	818.6	848.3	892.3	943.1	995.7
12.5°	739.0	740.7	745.8	756.4	778.8	781.8	814.4	864.8	924.1	989.3
15°	737.7	741.1	741.6	747.1	765.7	767.0	797.0	847.0	912.2	988.0
17.5°	750.4	753.0	749.2	752.6	768.2	770.4	794.1	838.5	908.4	993.5
20°	784.3	786.4	775.0	770.4	781.8	783.5	806.8	844.0	912.2	1005.0
22.5°	856.3	857.6	829.6	810.6	811.4	812.3	832.6	866.5	927.0	1025.7
25°	968.6	967.7	923.2	886.4	865.2	860.6	874.1	902.9	952.0	1053.3
27.5°	1099.8	1093.5	1049.0	994.0	947.8	941.0	938.1	950.3	987.6	1089.7
30°	1248.1	1242.1	1194.3	1122.3	1058.3	1047.3	1019.4	1013.0	1040.5	1139.2
32.5°	1410.7	1406.9	1349.7	1262.5	1176.9	1164.2	1117.2	1100.3	1121.9	1214.2
35°	1547.1	1543.7	1496.2	1406.5	1301.8	1286.2	1238.3	1219.3	1230.3	1310.3
37.5°	1670.3	1668.6	1627.9	1557.2	1449.2	1430.2	1376.4	1370.0	1367.9	1436.9
40°	1784.6	1780.4	1738.1	1700.8	1620.7	1603.4	1555.9	1550.4	1534.3	1592.8
42.5°	1911.3	1900.3	1838.8	1821.5	1799.9	1785.5	1757.1	1758.0	1722.4	1768.5
45°	2014.6	2008.2	1945.1	1935.0	1958.3	1952.3	1976.9	1983.3	1914.2	1952.8
47.5°	2125.6	2119.6	2066.3	2059.1	2122.2	2123.9	2210.7	2212.8	2101.4	2144.2
50°	2262.3	2253.9	2200.9	2209.8	2280.6	2286.9	2445.7	2431.3	2273.8	2338.6
52.5°	2352.6	2357.6	2346.2	2360.6	2457.2	2463.1	2677.0	2640.1	2444.5	2530.4
55°	2419.0	2429.2	2464.8	2497.8	2643.5	2649.4	2895.1	2838.7	2585.9	2708.3
57.5°	2504.6	2490.2	2556.7	2621.1	2820.5	2836.2	3107.2	3030.2	2711.3	2861.6
60°	2627.4	2617.2	2668.9	2764.2	3018.7	3043.7	3331.7	3202.5	2803.2	2983.2
62.5°	2876.4	2851.0	2859.1	2943.3	3268.6	3301.6	3584.9	3352.9	2848.9	3030.6
65°	3248.7	3205.1	3164.4	3222.9	3620.5	3653.1	3870.8	3471.0	2832.0	2938.7
67.5°	3717.5	3674.3	3624.3	3679.4	4138.9	4164.7	4223.6	3537.5	2698.6	2584.6
70°	4104.2	4088.1	4147.8	4374.4	4966.8	4967.7	4675.9	3482.5	2333.1	1832.5
72.5°	4052.9	4043.2	4357.8	5058.3	6010.3	5987.9	5104.1	3065.7	1571.6	826.7
75°	3324.9	3388.0	3875.5	5046.0	6385.1	6382.2	4841.9	1949.0	650.1	342.6
77.5°	1782.9	1882.9	2516.0	3725.6	4984.6	5059.6	3404.1	681.8	279.1	219.4
80°	581.5	668.7	1002.9	1896.9	3238.9	3225.0	1459.0	267.7	191.0	155.4
82.5°	246.9	257.1	448.1	895.7	1662.2	1636.4	464.6	153.7	134.3	106.3
85°	96.6	108.0	197.8	414.2	720.0	704.3	167.7	76.2	86.0	69.5
87.5°	31.8	38.5	70.7	141.9	224.0	216.0	41.1	26.3	37.3	31.8
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°
1043.9	0°	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9	1043.9
1046.9	2.5°	1052.8	1059.6	1067.6	1079.5	1089.7	1098.1	1107.0	1112.5	1114.7	1121.0
1048.6	5°	1060.5	1075.3	1095.2	1114.7	1133.7	1145.2	1155.3	1160.4	1165.1	1168.4
1053.3	7.5°	1073.2	1092.2	1123.6	1149.0	1165.1	1174.4	1181.1	1179.5	1181.1	1182.0
1058.3	10°	1084.2	1110.8	1148.1	1172.3	1184.5	1185.0	1183.3	1177.3	1174.4	1174.8
1066.0	12.5°	1097.3	1126.9	1167.2	1187.5	1190.9	1181.6	1174.4	1164.2	1160.4	1158.7
1077.4	15°	1115.1	1149.0	1187.9	1195.5	1187.1	1175.2	1162.9	1146.4	1138.0	1131.2
1096.9	17.5°	1136.7	1173.9	1204.0	1198.5	1180.3	1160.8	1140.9	1115.9	1098.6	1091.4
1123.6	20°	1166.7	1200.2	1216.3	1192.2	1164.6	1135.0	1101.1	1070.6	1054.5	1047.3
1157.4	22.5°	1203.2	1235.4	1228.2	1181.1	1142.2	1094.8	1052.4	1030.0	1021.9	1016.8
1201.1	25°	1246.8	1274.3	1236.6	1165.1	1105.3	1041.4	1008.8	1001.6	997.8	994.0
1254.4	27.5°	1303.5	1318.4	1243.0	1141.3	1047.7	984.6	972.8	974.1	972.8	966.4
1328.5	30°	1378.5	1375.5	1248.9	1102.8	981.7	933.4	934.2	939.8	940.6	936.4
1431.9	32.5°	1477.2	1447.1	1251.9	1052.8	918.6	888.5	889.4	895.3	899.5	892.3
1567.0	35°	1596.6	1530.5	1247.2	990.1	869.9	845.7	839.4	841.1	842.3	835.6
1730.9	37.5°	1735.9	1624.1	1226.5	920.7	829.6	803.8	790.3	778.8	772.0	765.7
1916.3	40°	1888.8	1726.2	1188.3	852.9	784.8	759.3	739.0	717.4	694.5	686.1
2112.9	42.5°	2048.9	1831.2	1142.2	788.1	733.1	712.3	690.7	659.4	625.1	607.7
2317.0	45°	2214.9	1938.8	1096.9	724.2	680.1	671.3	646.3	608.6	571.3	549.3
2521.5	47.5°	2377.5	2040.4	1030.4	659.8	630.6	640.3	620.9	586.1	544.6	509.9
2724.4	50°	2533.0	2135.7	921.5	594.6	590.4	631.0	612.4	562.4	515.0	470.5
2923.4	52.5°	2687.1	2212.8	782.2	535.3	568.8	628.5	601.4	546.3	488.3	441.7
3110.6	55°	2818.0	2252.6	648.0	484.5	537.4	606.9	588.2	527.3	450.6	401.1
3238.9	57.5°	2892.5	2220.4	536.2	434.5	494.2	571.3	565.8	486.6	405.7	367.6
3263.9	60°	2860.3	2090.0	444.7	390.9	453.1	532.8	526.8	446.4	371.4	335.4
3130.1	62.5°	2682.9	1841.4	372.3	352.8	415.9	493.4	487.9	415.5	345.2	310.4
2774.8	65°	2325.5	1497.9	315.9	321.0	378.2	445.9	454.0	389.6	324.4	290.5
2146.7	67.5°	1773.6	1085.0	271.9	293.5	341.3	399.4	422.7	371.0	307.0	274.9
1242.1	70°	1010.9	616.2	234.6	266.8	308.7	356.2	398.5	356.2	288.4	261.7
465.4	72.5°	383.3	282.9	202.9	240.1	277.4	319.7	371.8	332.9	266.8	246.9
240.5	75°	204.6	172.4	170.7	208.8	241.4	284.2	338.4	310.0	250.7	260.9
166.4	77.5°	139.3	122.0	142.7	178.7	202.0	244.8	302.8	275.3	217.3	216.4
115.2	80°	96.6	86.4	116.0	144.0	156.3	205.8	264.3	236.3	177.0	165.2
71.1	82.5°	58.0	56.3	86.8	107.6	110.5	158.8	219.0	198.2	144.8	126.2
42.4	85°	31.8	33.5	55.5	63.1	64.4	111.0	171.5	153.3	111.4	93.6
15.2	87.5°	8.9	11.4	20.3	25.0	30.9	57.6	102.1	91.1	55.9	39.0
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>
1043.9
1120.6
1169.3
1183.3
1175.6
1157.9
1133.3
1091.8
1046.5
1017.7
994.0
967.7
938.5
895.7
840.2
769.9
689.9
609.8
547.6
506.1
466.7
436.6
396.8
362.5
330.3
304.9
285.0
269.8
258.3
243.5
269.3
199.5
158.0
127.1
94.4
39.0
0.0

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