

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: P939097

Luminaire Tested: **GALN-SB1C-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7931 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

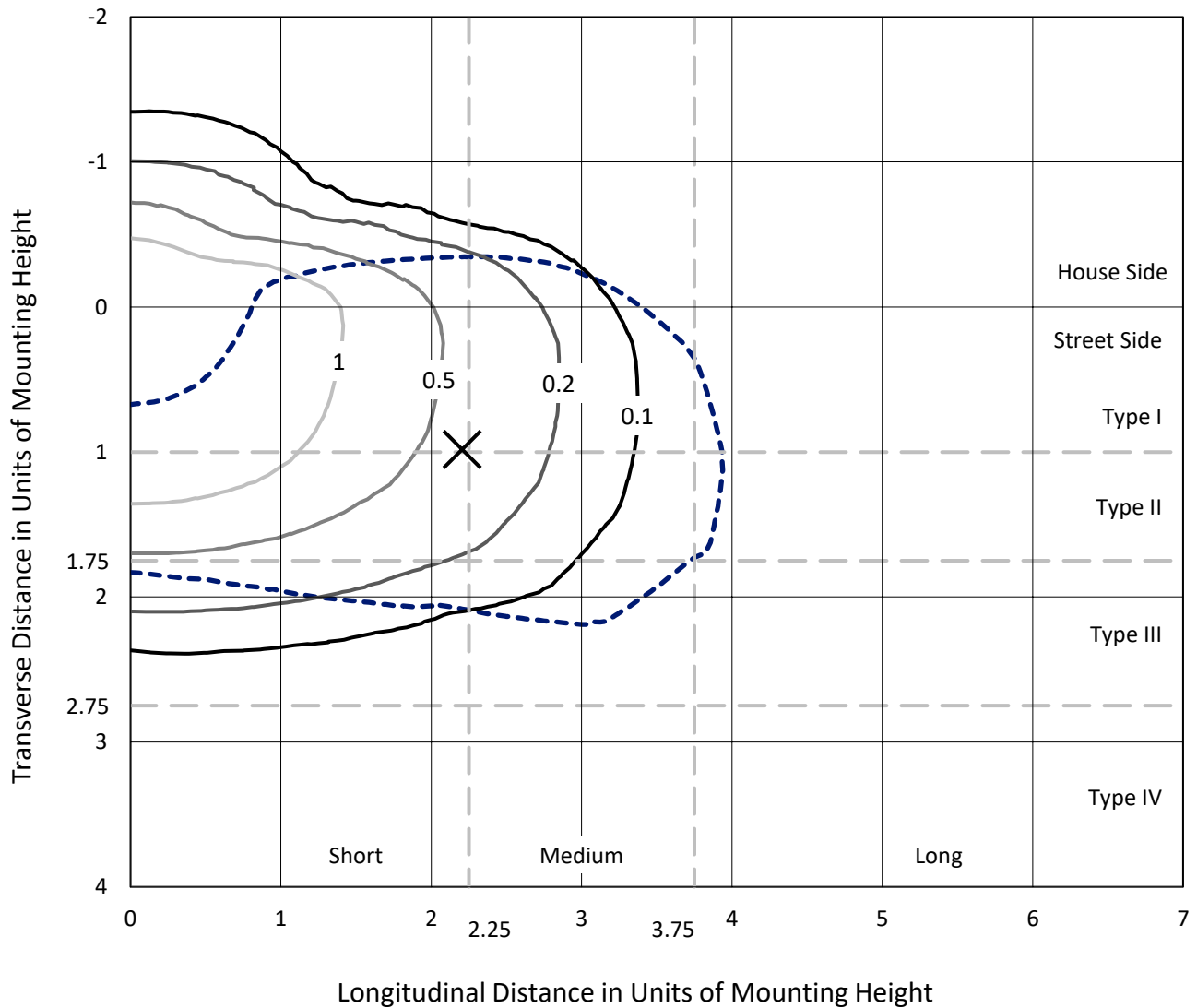
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

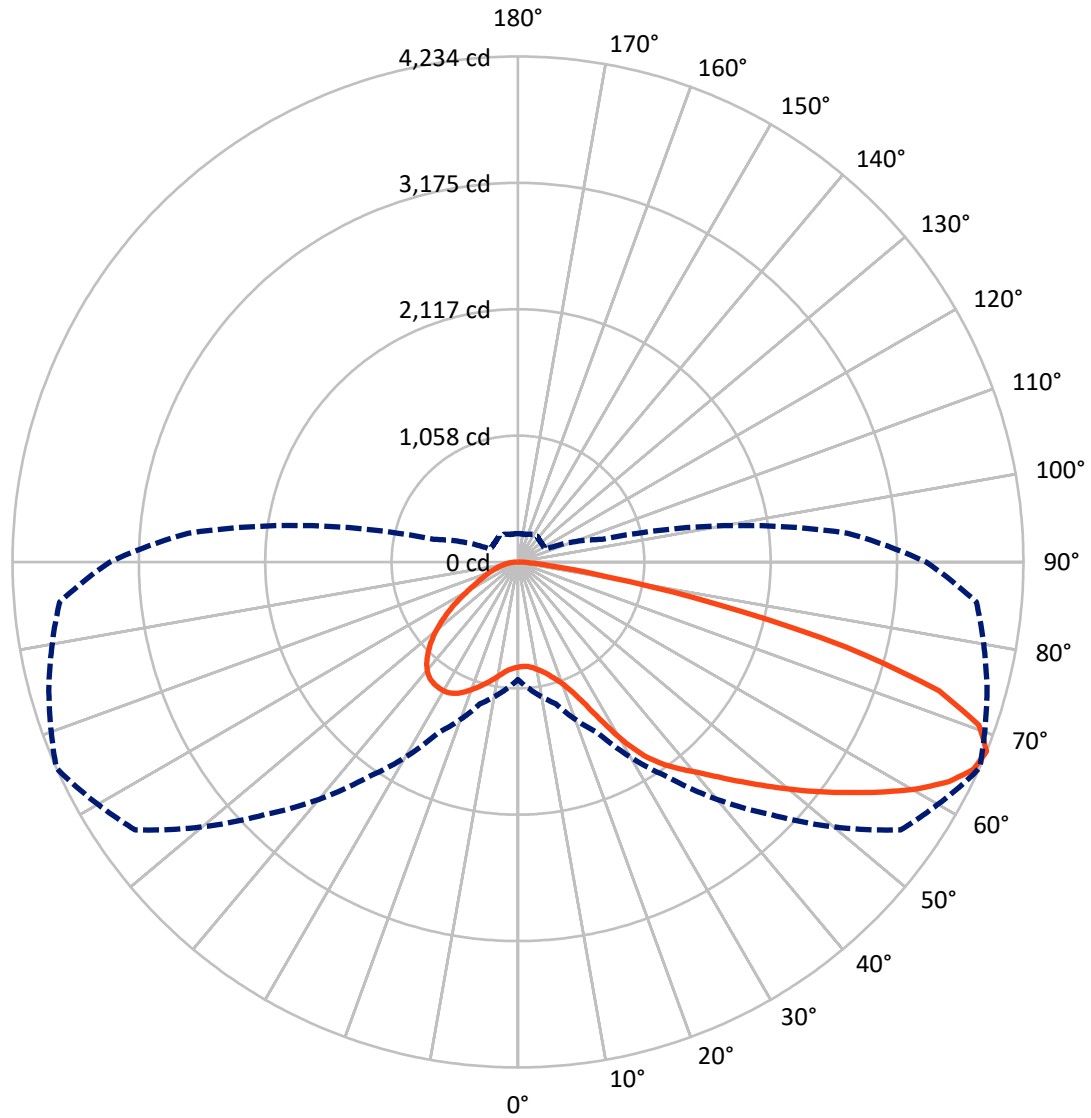
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1972.0	0.0	1972.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	5959.0	0.0	5959.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	7931.0	0.0	7931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.1
10°-20°	288.1	3.6
20°-30°	555.4	7.0
30°-40°	973.8	12.3
40°-50°	1447.7	18.3
50°-60°	1835.1	23.1
60°-70°	1795.6	22.6
70°-80°	856.5	10.8
80°-90°	91.5	1.2
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°	7931.0	100.0
0°-180°	7931.0	100.0

Coefficient of Utilization



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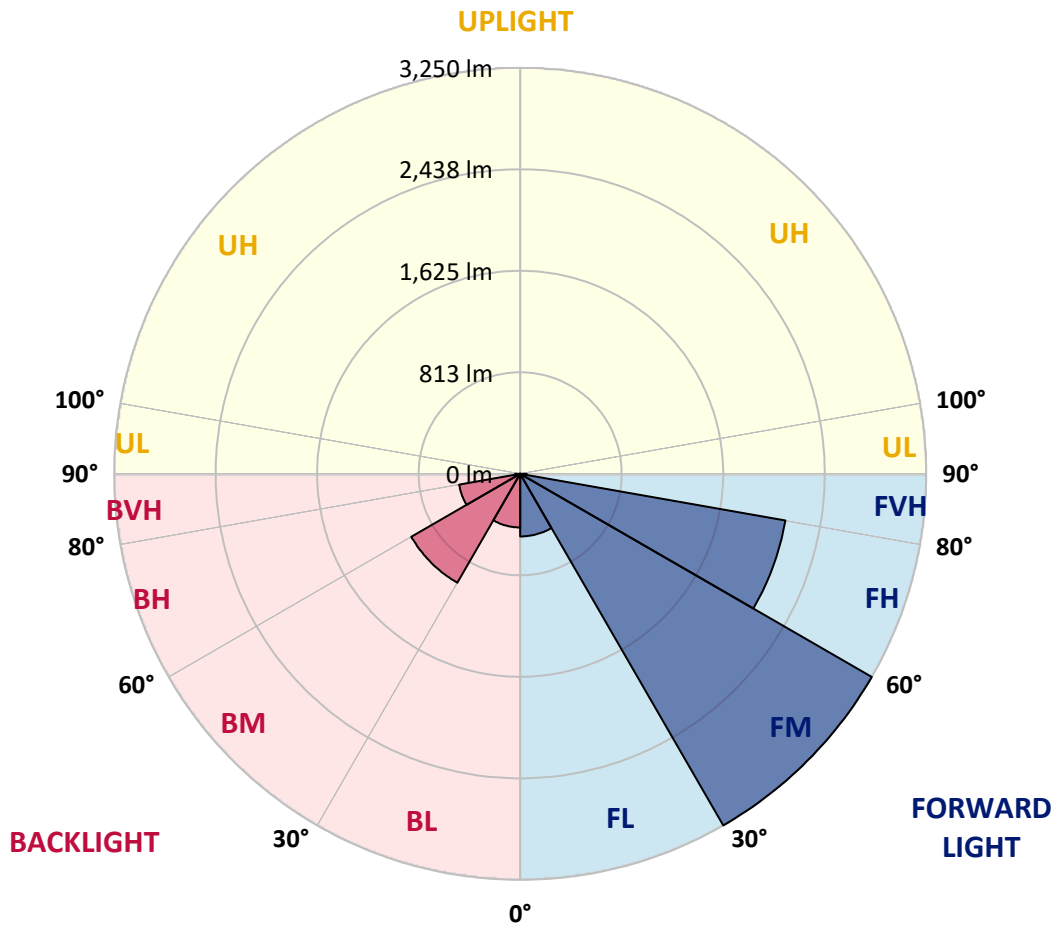
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.2	6.3			
FM (30°-60°)	3250.1	41.0			
FH (60°-80°)	2155.9	27.2			G2/5000
FVH (80°-90°)	51.9	0.7			G1/100
BL (0°-30°)	429.6	5.4	B1/500		
BM (30°-60°)	1006.5	12.7	B2/2500		
BH (60°-80°)	496.3	6.3	B1/500		G1/500
BVH (80°-90°)	39.6	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	870.5	875.5	874.2	872.2	871.7	872.6	873.8	875.1	874.7	876.7
5°	868.0	873.0	872.6	872.6	874.2	877.6	879.7	881.7	879.7	882.2
7.5°	869.7	873.4	875.1	876.7	880.9	887.2	892.2	896.7	894.2	897.2
10°	890.9	893.8	895.5	895.5	898.4	905.5	910.5	918.8	916.7	921.3
12.5°	929.7	932.6	932.6	930.9	933.0	937.6	939.2	948.4	944.7	952.2
15°	977.2	983.0	978.4	975.5	976.3	980.9	980.5	987.6	983.8	990.1
17.5°	1029.7	1037.2	1029.7	1029.2	1027.6	1032.6	1033.0	1039.2	1032.6	1037.2
20°	1091.8	1102.2	1095.9	1098.0	1094.3	1096.3	1098.4	1107.6	1097.2	1100.5
22.5°	1179.3	1191.8	1185.1	1193.0	1190.5	1188.8	1188.4	1204.7	1188.4	1189.7
25°	1306.8	1321.8	1310.1	1320.9	1320.9	1326.4	1332.6	1353.4	1326.4	1318.4
27.5°	1495.1	1510.1	1487.2	1493.9	1491.8	1505.1	1498.5	1550.1	1521.0	1508.0
30°	1721.8	1748.5	1705.1	1703.5	1701.4	1722.6	1732.2	1766.4	1736.8	1723.9
32.5°	1966.8	1994.7	1943.1	1928.1	1920.2	1933.1	1925.2	1952.7	1932.2	1912.2
35°	2226.0	2253.5	2204.3	2175.2	2143.5	2116.4	2088.1	2095.2	2076.0	2045.6
37.5°	2471.0	2521.4	2469.4	2438.1	2379.8	2326.9	2247.7	2214.8	2196.8	2168.9
40°	2720.6	2749.4	2709.8	2683.1	2619.8	2536.9	2410.2	2340.6	2316.4	2289.3
42.5°	2904.4	2931.9	2910.6	2892.3	2842.7	2746.5	2582.7	2495.6	2460.6	2430.2
45°	3050.2	3070.7	3057.3	3064.0	3042.7	2949.4	2761.5	2661.9	2625.6	2588.5
47.5°	3109.0	3130.7	3151.9	3191.5	3227.8	3159.0	2953.6	2841.9	2803.6	2765.6
50°	3102.3	3124.4	3186.1	3270.3	3382.8	3359.8	3156.1	3033.6	2998.2	2954.8
52.5°	3049.0	3074.0	3153.2	3293.2	3472.4	3510.3	3362.3	3231.5	3198.2	3146.5
55°	2909.0	2924.0	3042.7	3241.1	3493.6	3615.3	3564.4	3442.4	3409.0	3336.9
57.5°	2649.4	2671.0	2844.0	3100.7	3440.3	3686.5	3742.0	3664.0	3632.0	3528.2
60°	2310.6	2345.2	2543.1	2864.8	3304.4	3686.1	3903.2	3882.0	3855.3	3716.5
62.5°	1927.2	1967.2	2157.7	2531.4	3066.9	3581.5	4004.1	4064.5	4050.7	3890.3
65°	1480.1	1507.6	1697.2	2100.2	2697.3	3356.9	4015.7	4189.1	4191.6	4022.4
67.5°	985.5	1064.7	1229.3	1576.0	2202.3	2989.8	3913.2	4209.5	4233.7	4067.8
70°	480.9	585.0	746.3	1024.2	1576.0	2426.9	3645.3	4042.0	4095.7	3935.3
72.5°	199.6	233.4	321.3	505.5	904.7	1637.6	3106.9	3587.8	3687.4	3486.9
75°	134.6	145.8	183.8	259.2	412.1	807.6	2240.6	2675.2	2835.6	2633.5
77.5°	103.8	110.8	133.8	181.3	245.0	305.4	1199.3	1612.2	1695.1	1569.3
80°	81.7	87.1	100.0	132.1	173.8	163.3	408.8	730.5	778.4	653.0
82.5°	70.8	72.9	71.7	89.6	115.4	95.4	134.2	269.6	297.5	215.9
85°	51.3	57.1	59.6	55.4	61.3	48.3	55.0	95.4	105.0	93.8
87.5°	20.8	30.8	37.9	35.8	22.5	13.8	17.1	27.9	32.1	35.0
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°
879.7	0°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
880.1	2.5°	880.5	883.4	885.5	888.0	889.7	892.2	897.2	900.1	900.5	902.6
886.7	5°	888.4	892.6	897.2	903.8	911.3	917.6	927.2	933.8	936.3	938.4
903.0	7.5°	905.5	911.3	919.7	931.3	942.2	950.5	962.2	970.1	978.0	980.9
928.8	10°	930.9	939.2	951.3	967.2	978.8	989.7	1001.7	1008.4	1016.3	1019.7
959.7	12.5°	962.6	971.3	987.2	1009.2	1020.1	1027.6	1031.7	1030.1	1031.7	1034.7
996.7	15°	998.8	1008.4	1026.3	1050.1	1057.6	1050.9	1041.7	1033.4	1032.2	1033.0
1041.7	17.5°	1041.7	1048.8	1069.7	1089.7	1084.3	1056.8	1036.7	1023.4	1016.7	1014.7
1099.3	20°	1101.8	1101.8	1118.8	1131.3	1095.1	1048.4	1017.2	995.5	981.7	975.9
1177.6	22.5°	1174.7	1168.0	1178.8	1170.1	1093.0	1025.1	981.7	944.2	923.4	915.1
1287.2	25°	1267.2	1259.3	1256.3	1202.2	1078.0	988.0	917.6	872.2	853.8	849.2
1445.1	27.5°	1406.8	1386.8	1348.9	1219.7	1050.5	929.7	842.6	800.5	790.1	790.5
1648.0	30°	1592.6	1552.6	1459.7	1222.6	1005.5	847.2	765.9	735.9	730.9	733.0
1818.5	32.5°	1764.7	1726.8	1573.0	1209.3	936.3	766.3	697.1	677.1	669.6	672.1
1948.5	35°	1899.7	1889.3	1678.0	1190.5	851.3	690.5	635.5	618.4	603.8	600.5
2071.0	37.5°	2027.2	2023.1	1756.8	1164.3	767.1	636.7	585.9	563.4	542.1	530.5
2206.4	40°	2167.3	2163.1	1808.5	1123.8	692.6	590.0	541.3	511.7	485.5	464.2
2359.8	42.5°	2324.8	2300.2	1833.1	1065.9	629.2	550.5	505.0	465.0	430.5	410.9
2533.1	45°	2496.9	2441.4	1832.6	992.2	575.9	514.2	466.3	409.6	377.5	359.2
2711.0	47.5°	2679.4	2576.5	1810.1	910.5	524.2	474.2	406.3	362.9	341.7	330.4
2904.4	50°	2867.7	2702.7	1771.8	816.7	471.3	428.8	368.8	339.2	322.9	312.5
3096.1	52.5°	3044.8	2817.3	1725.6	710.5	417.5	384.6	352.1	329.2	312.1	300.4
3281.9	55°	3209.4	2916.1	1660.1	601.7	373.8	355.0	344.2	325.0	305.4	291.7
3470.7	57.5°	3355.7	2980.2	1547.2	499.6	342.5	334.6	335.9	317.9	295.4	283.8
3656.5	60°	3477.4	3027.3	1380.1	405.0	317.1	314.6	322.9	304.6	278.4	265.0
3813.6	62.5°	3550.3	3026.5	1175.1	331.7	295.4	296.3	305.9	287.9	261.3	248.8
3895.7	65°	3544.0	2952.3	950.1	283.8	274.6	275.4	287.9	269.6	247.1	239.6
3854.5	67.5°	3418.6	2771.5	728.8	252.5	251.7	255.4	270.0	257.1	238.4	237.5
3608.6	70°	3079.0	2396.0	525.0	227.5	227.9	233.4	252.5	249.2	233.8	235.4
3034.0	72.5°	2468.9	1826.8	352.5	201.3	201.7	210.4	235.9	242.9	229.2	251.3
2152.7	75°	1644.3	1139.3	226.7	173.3	173.8	185.0	221.3	230.9	216.7	250.4
1120.1	77.5°	790.1	512.1	164.2	145.8	145.8	156.3	191.3	206.7	184.6	194.6
360.0	80°	272.9	192.5	129.2	117.5	115.0	122.1	161.3	179.2	159.2	146.7
117.5	82.5°	107.5	100.0	103.8	91.3	82.9	87.5	125.4	147.9	117.1	105.8
66.3	85°	61.7	65.0	73.3	60.4	47.9	53.8	92.1	106.3	88.3	77.9
21.7	87.5°	16.7	22.9	33.8	31.3	21.7	22.9	43.8	58.8	50.8	39.2
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>
879.7
902.2
938.0
981.3
1021.3
1035.5
1035.9
1017.6
974.7
913.8
850.1
791.7
740.1
675.5
603.0
530.9
466.3
412.1
358.4
327.9
308.8
295.4
286.3
276.3
259.2
245.0
239.2
238.8
235.0
254.6
252.5
178.3
137.5
105.4
79.6
40.4
0.0

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