

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: P945291

Luminaire Tested: **GALN-SB1B-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-740-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5948 lumens
Efficiency: N/A
Efficacy: 149.4 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

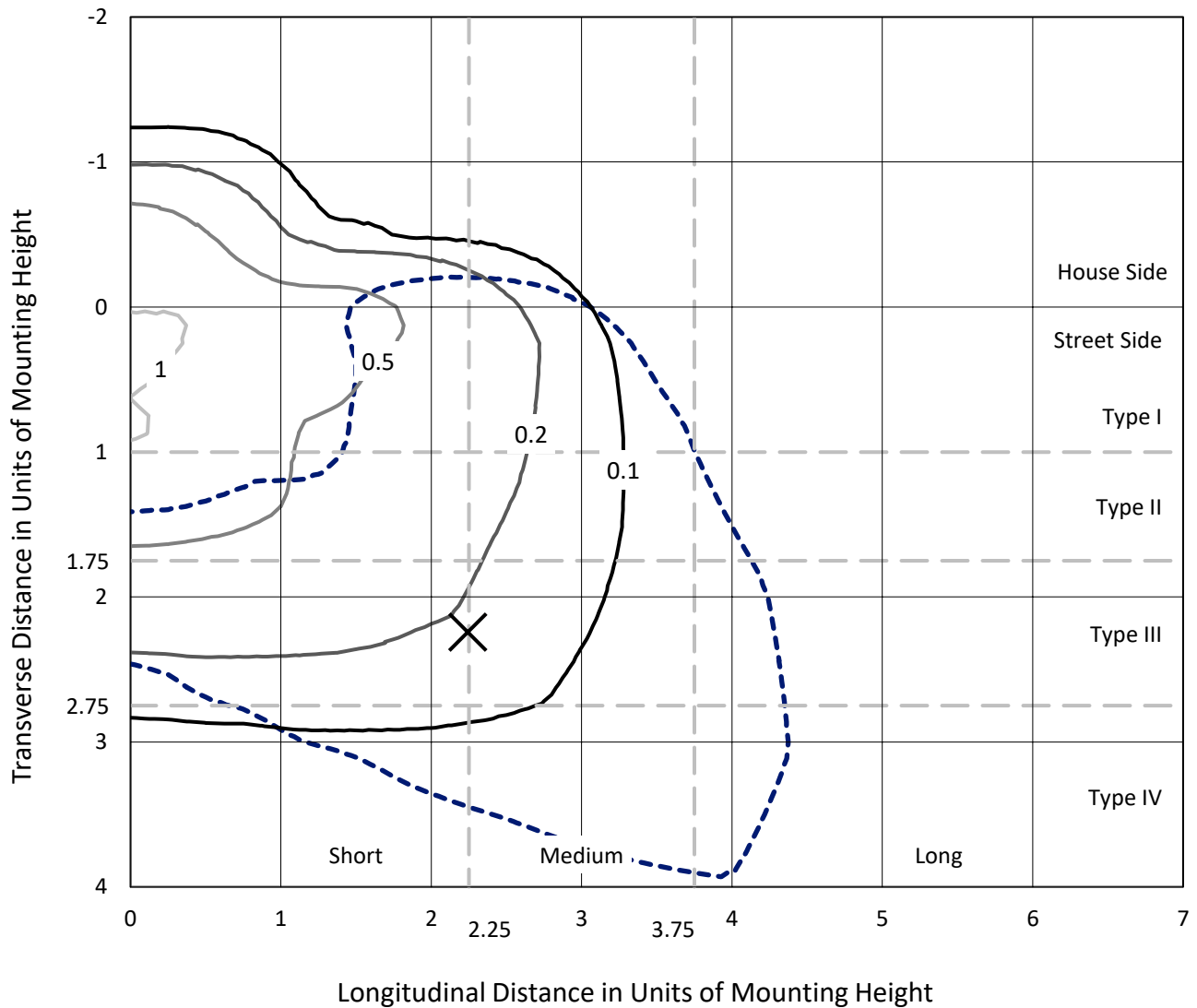
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

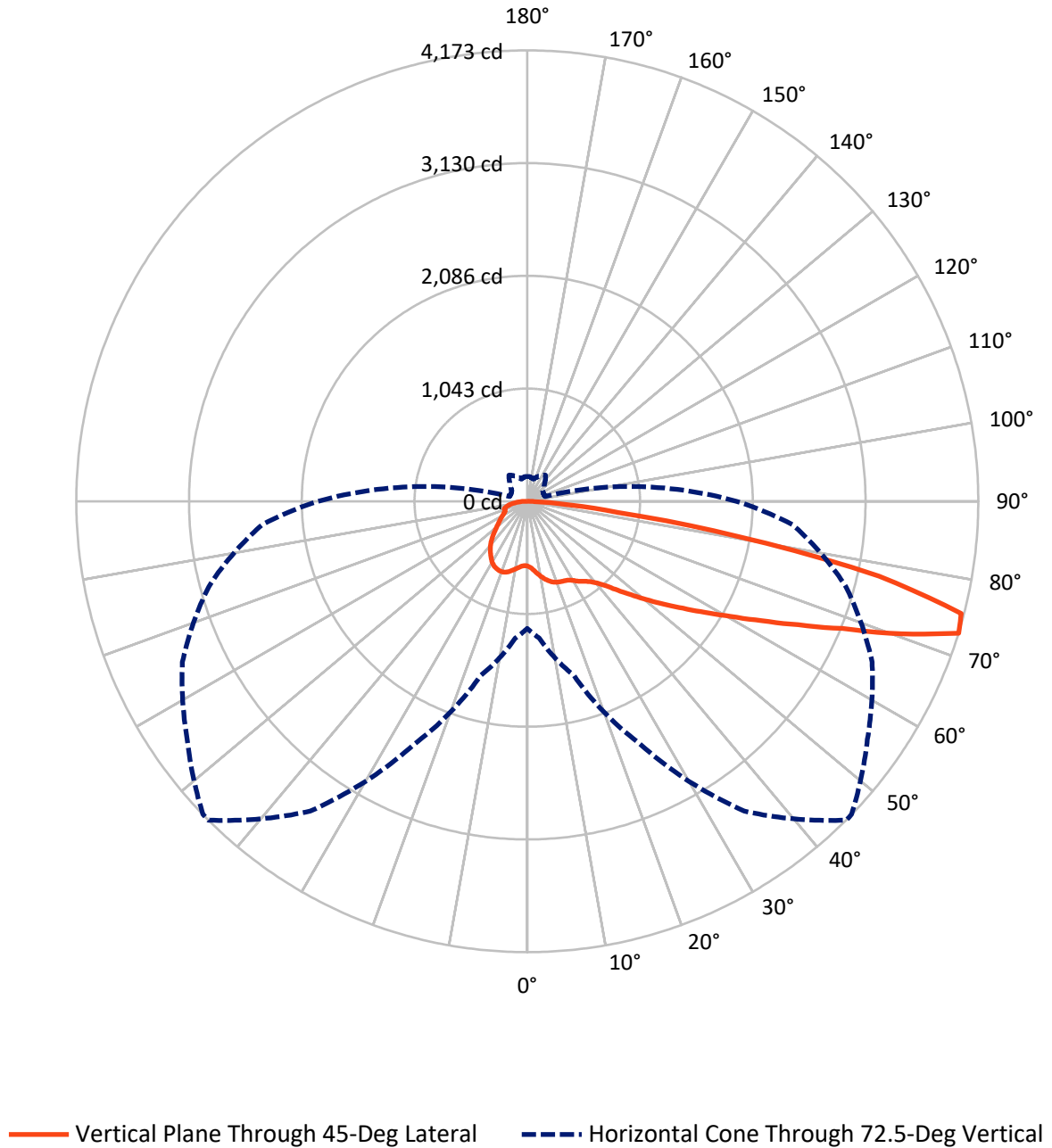
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1344.6	0.0	1344.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4603.4	0.0	4603.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	5948.0	0.0	5948.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	1.0
10°-20°	203.6	3.4
20°-30°	354.2	6.0
30°-40°	507.8	8.5
40°-50°	715.0	12.0
50°-60°	1095.1	18.4
60°-70°	1586.5	26.7
70°-80°	1266.9	21.3
80°-90°	157.8	2.7
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°	5948.0	100.0
0°-180°	5948.0	100.0



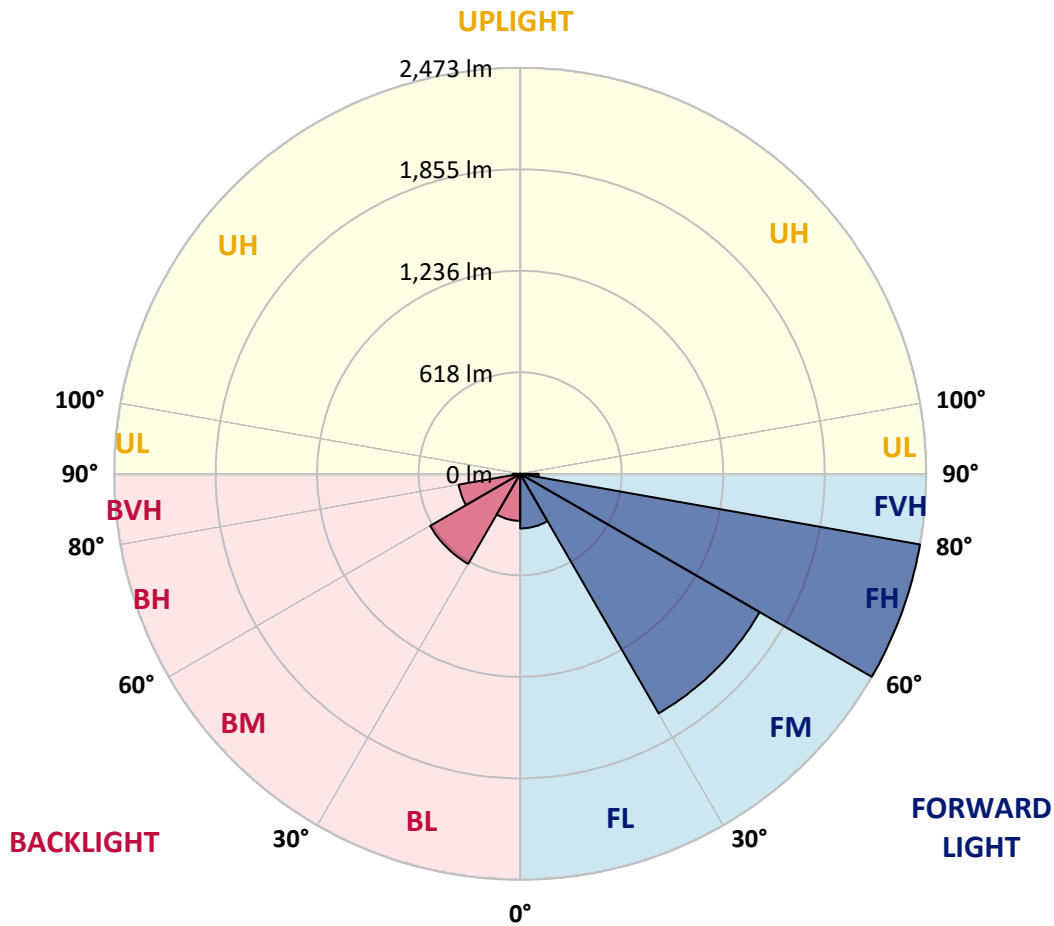
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.6	5.6			
FM (30°-60°)	1684.8	28.3			
FH (60°-80°)	2472.8	41.6			G2/5000
FVH (80°-90°)	113.2	1.9			G2/225
BL (0°-30°)	286.3	4.8	B1/500		
BM (30°-60°)	633.1	10.6	B1/1000		
BH (60°-80°)	380.6	6.4	B1/500		G1/500
BVH (80°-90°)	44.6	0.7			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°	45°	46°	55°	65°	75°
0°	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
2.5°	623.5	627.6	623.9	620.4	618.8	614.8	614.5	611.9	610.4	606.0
5°	667.1	672.4	666.2	659.3	653.0	643.0	641.7	634.5	626.4	617.0
7.5°	716.3	721.0	713.8	703.4	692.5	675.9	675.6	662.4	649.5	633.6
10°	759.2	765.5	755.8	741.7	727.9	709.1	706.9	691.8	675.6	654.9
12.5°	797.1	801.5	792.1	774.9	758.9	740.1	737.3	720.7	702.5	679.0
15°	827.2	832.8	820.3	801.8	784.9	766.4	763.9	748.9	730.7	705.9
17.5°	846.9	851.6	838.8	818.1	801.8	786.5	784.6	772.1	756.1	731.0
20°	854.5	859.5	846.0	825.0	810.0	798.1	797.1	788.0	777.1	754.2
22.5°	862.0	866.7	849.1	827.2	814.0	806.5	806.2	800.3	795.9	777.1
25°	892.4	893.6	870.1	838.5	819.7	813.1	812.8	812.5	814.4	799.6
27.5°	918.7	918.4	898.3	868.6	839.4	825.6	825.3	828.5	834.4	822.2
30°	957.2	953.8	930.0	899.0	872.3	851.0	849.1	846.3	851.0	841.3
32.5°	1039.0	1028.1	989.5	934.4	899.6	883.3	880.8	863.2	865.1	859.2
35°	1156.2	1141.8	1090.4	1001.4	933.4	910.2	909.0	886.7	883.0	877.7
37.5°	1295.6	1277.8	1217.9	1098.6	991.7	941.6	939.7	919.6	904.3	898.6
40°	1435.7	1413.1	1363.6	1217.0	1077.6	993.9	987.9	957.6	940.0	930.6
42.5°	1571.7	1552.9	1510.6	1349.8	1183.5	1070.4	1057.2	1005.2	992.0	983.2
45°	1692.0	1675.1	1644.1	1491.8	1307.5	1174.4	1161.5	1076.6	1072.5	1072.5
47.5°	1789.8	1786.0	1753.1	1636.6	1453.9	1292.8	1270.6	1175.9	1186.9	1203.8
50°	1898.2	1887.8	1852.8	1779.1	1625.9	1428.5	1410.3	1297.8	1338.9	1385.3
52.5°	1997.8	2003.5	1964.3	1927.6	1820.2	1579.8	1547.9	1441.7	1530.3	1607.1
55°	2100.3	2100.6	2089.6	2084.6	2023.8	1747.2	1712.1	1614.6	1755.6	1850.9
57.5°	2196.5	2197.1	2213.4	2257.6	2260.1	1940.2	1900.4	1827.1	2006.0	2103.1
60°	2282.3	2286.7	2331.2	2434.6	2467.8	2161.4	2123.8	2078.0	2264.8	2362.5
62.5°	2311.2	2327.1	2426.2	2573.1	2673.1	2432.7	2395.8	2368.5	2536.8	2627.6
65°	2262.3	2298.9	2490.4	2687.5	2884.3	2755.2	2718.5	2688.7	2819.4	2904.9
67.5°	2142.3	2189.6	2486.6	2807.5	3140.6	3143.1	3108.9	3039.0	3122.4	3155.3
70°	1826.1	1896.9	2267.6	2852.3	3434.8	3673.5	3640.6	3460.8	3424.8	3265.6
72.5°	1176.6	1271.8	1669.8	2483.5	3500.3	4172.7	4170.8	3841.5	3520.3	3051.3
75°	429.3	487.5	775.8	1558.8	2938.1	4147.3	4159.5	3776.3	3213.6	2356.9
77.5°	156.4	171.1	253.2	599.1	1807.0	3327.6	3353.0	3019.0	2287.3	1182.8
80°	82.1	90.2	129.7	232.5	774.3	1976.2	2016.0	1794.2	1075.1	356.3
82.5°	45.4	49.2	72.7	126.3	348.7	845.1	868.9	708.8	378.2	151.0
85°	24.4	26.0	34.2	68.9	170.5	293.0	299.5	211.8	150.7	88.7
87.5°	7.2	8.8	11.3	21.9	66.7	65.8	67.4	42.0	59.5	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945291
 CATALOG NUMBER: GALN-SB1B-740-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
600.0	0°	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
604.7	2.5°	602.9	601.9	598.5	596.9	595.0	594.7	596.3	596.6	596.9	597.2
611.6	5°	608.5	605.4	602.2	600.4	601.0	601.3	604.4	606.6	608.2	609.4
624.5	7.5°	619.5	617.0	611.6	611.3	612.3	615.1	619.2	624.2	627.0	629.2
641.1	10°	635.8	631.1	624.8	625.7	627.6	631.7	640.1	644.2	648.9	653.0
661.5	12.5°	652.4	648.3	641.1	641.7	644.8	652.1	660.2	665.2	668.3	671.5
683.4	15°	674.0	666.8	658.9	658.9	664.6	672.4	676.2	680.3	682.1	685.6
706.9	17.5°	696.2	686.8	676.5	675.9	682.8	686.5	688.7	689.3	690.0	693.7
729.8	20°	718.5	708.1	693.4	692.2	693.7	693.1	692.8	692.2	693.1	697.8
753.3	22.5°	740.4	728.5	708.1	702.5	698.1	692.2	691.8	691.5	692.2	696.9
778.6	25°	766.1	751.7	724.4	707.5	692.8	684.6	685.6	685.9	686.5	690.3
805.0	27.5°	794.0	778.0	739.5	705.9	679.3	673.7	672.1	673.0	675.2	681.2
831.3	30°	821.9	803.1	753.3	699.7	662.4	654.6	649.5	651.7	658.6	664.6
854.2	32.5°	847.3	828.5	764.2	685.9	640.8	628.6	622.0	624.8	631.7	633.9
879.5	35°	877.0	855.7	768.9	664.0	617.3	598.5	589.7	585.6	589.1	586.9
909.3	37.5°	910.2	888.0	768.3	635.1	589.7	568.1	555.9	540.5	533.3	525.8
953.2	40°	959.4	927.5	760.8	600.4	555.5	535.8	513.9	487.9	471.6	456.8
1024.0	42.5°	1026.5	982.3	747.0	562.1	517.0	498.5	468.7	438.4	412.7	388.2
1131.5	45°	1126.4	1054.1	729.8	521.4	475.3	457.2	424.9	390.7	361.6	330.3
1284.0	47.5°	1270.6	1150.6	713.5	475.0	431.5	414.9	385.7	354.1	319.6	289.2
1504.6	50°	1468.6	1289.1	698.4	429.9	388.2	375.7	352.5	320.2	285.4	261.0
1763.1	52.5°	1720.5	1477.4	692.2	386.3	347.8	343.1	324.6	294.5	261.6	241.0
2064.6	55°	2009.7	1702.7	692.2	344.7	312.4	314.0	301.1	273.2	244.7	226.2
2375.4	57.5°	2304.9	1930.8	679.6	306.1	282.3	288.9	280.7	256.3	230.6	211.5
2702.2	60°	2576.9	2121.9	628.9	271.0	255.7	266.0	260.7	239.7	208.4	192.4
2975.4	62.5°	2785.9	2229.7	531.1	243.1	233.7	245.7	242.8	217.8	204.3	197.7
3199.8	65°	2890.5	2212.1	406.1	218.4	215.3	233.7	227.8	226.9	216.2	208.7
3272.8	67.5°	2826.3	2061.1	294.5	200.2	204.6	222.8	245.7	249.4	229.7	214.9
3067.2	70°	2544.6	1787.9	219.3	183.0	191.1	223.1	280.1	261.0	225.3	208.1
2460.0	72.5°	1935.8	1333.2	170.1	164.8	173.6	224.7	295.5	255.7	212.8	230.0
1532.5	75°	1107.0	732.0	136.6	142.6	151.7	209.9	287.6	241.9	203.0	211.2
607.2	77.5°	422.1	281.4	112.8	120.6	121.9	183.3	275.1	241.0	193.3	188.6
182.0	80°	146.3	110.0	93.4	95.9	94.3	162.9	263.8	209.6	158.2	141.6
75.2	82.5°	59.8	54.8	73.9	70.8	67.1	126.6	213.1	171.4	129.4	114.4
36.3	85°	26.0	34.8	48.9	42.9	38.9	87.7	170.8	145.1	109.4	94.3
11.9	87.5°	5.3	13.2	20.7	19.4	20.1	58.6	121.3	103.1	77.4	58.0
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>
600.0
598.5
610.1
629.8
652.1
672.7
686.8
695.0
699.7
700.0
695.3
687.1
671.2
641.7
593.8
530.5
457.8
386.0
326.5
285.8
259.4
239.4
224.3
208.4
189.9
195.5
206.2
212.4
205.2
228.1
211.2
172.0
136.9
113.1
94.0
45.4
0.0

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