

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: P945644

Luminaire Tested: **GALN-SB1C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945644
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-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8032 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

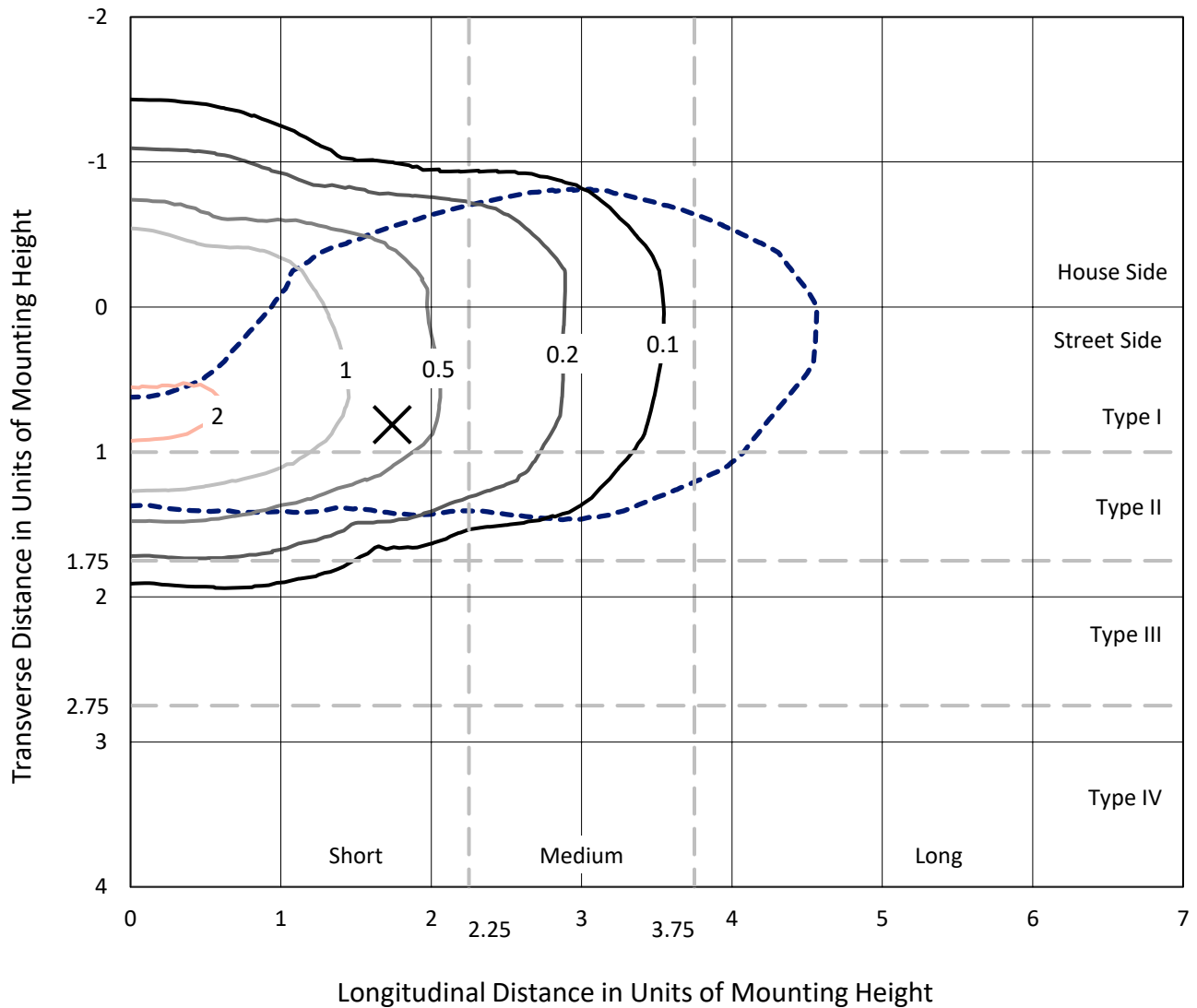
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

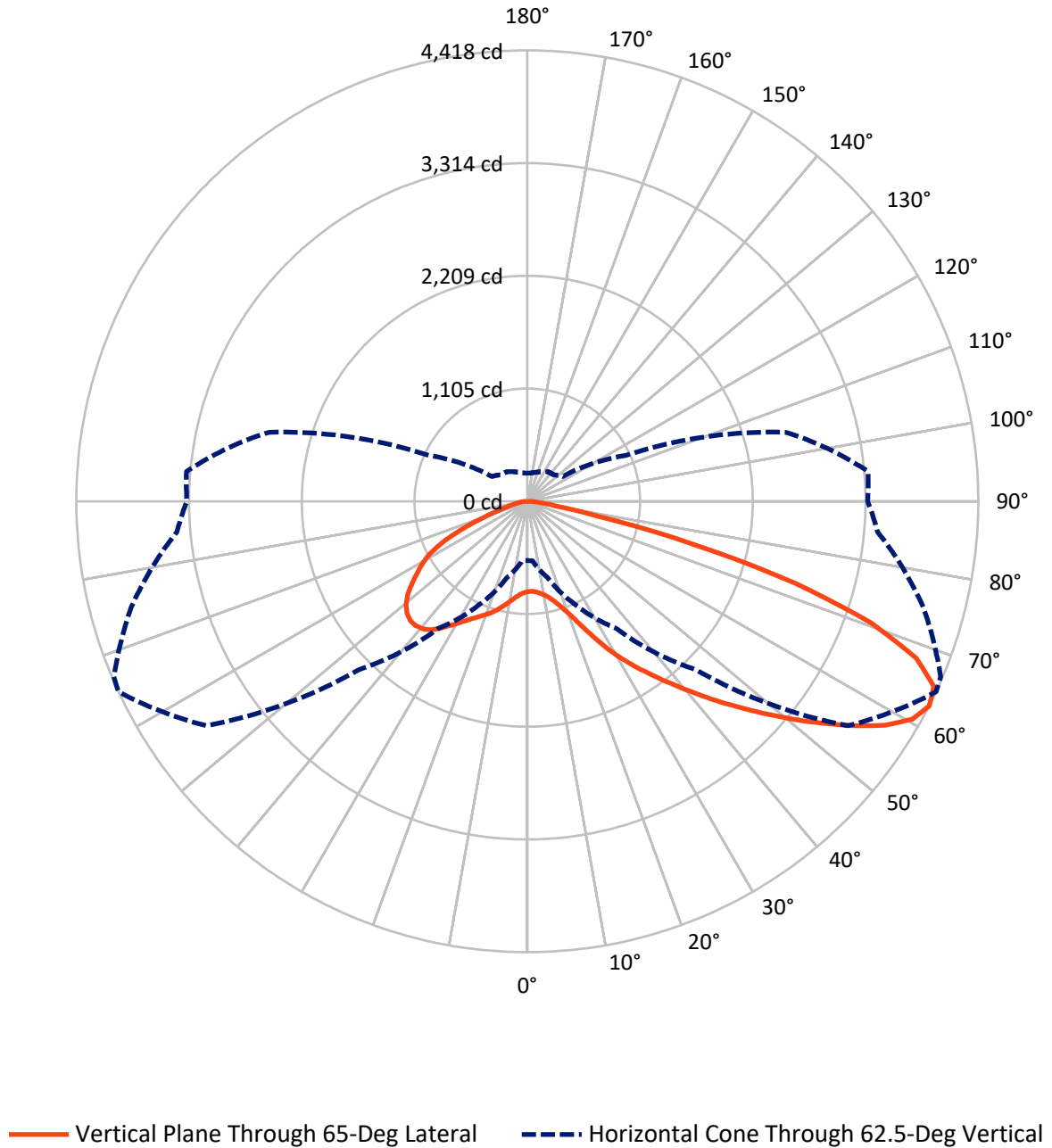
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2534.6	0.0	2534.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5497.5	0.0	5497.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	8032.0	0.0	8032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.1
10°-20°	299.2	3.7
20°-30°	606.7	7.6
30°-40°	1049.9	13.1
40°-50°	1588.9	19.8
50°-60°	1862.9	23.2
60°-70°	1561.8	19.4
70°-80°	862.2	10.7
80°-90°	112.0	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°	8032.0	100.0
0°-180°	8032.0	100.0

Coefficient of Utilization



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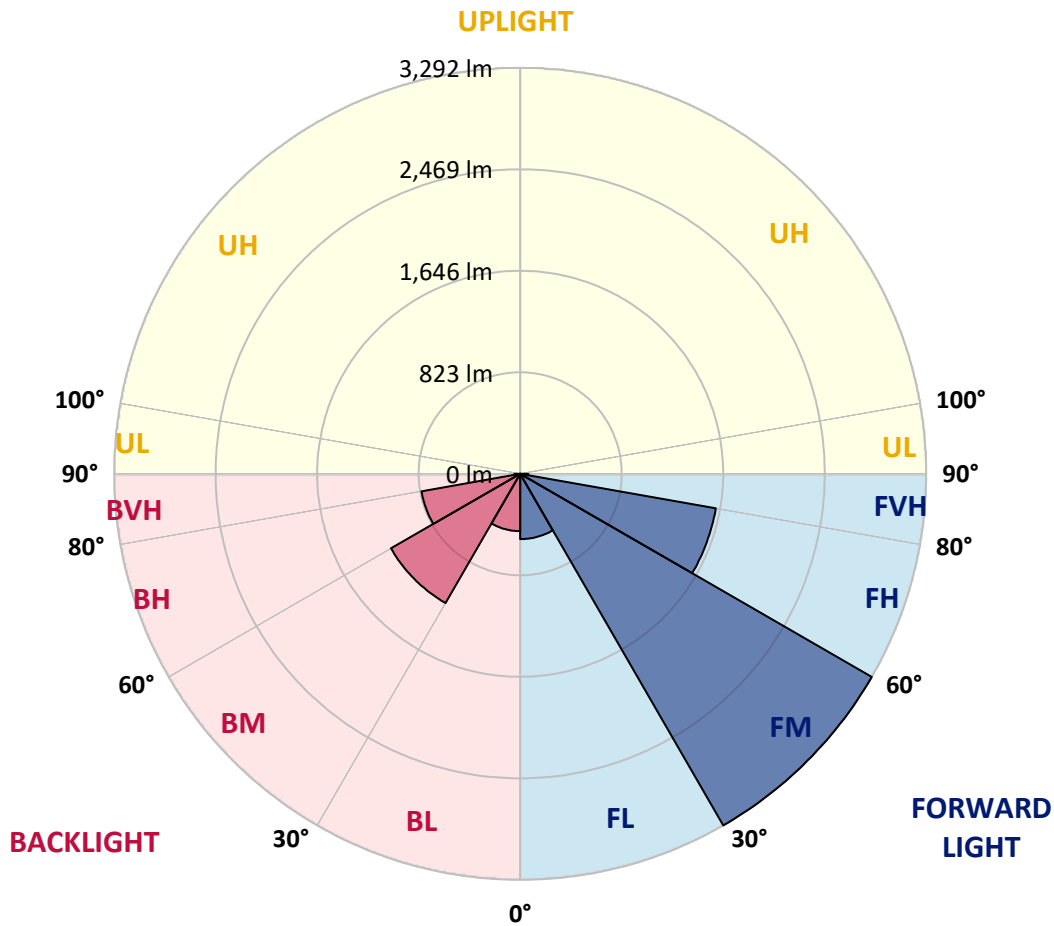
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.4	6.6			
FM (30°-60°)	3291.8	41.0			
FH (60°-80°)	1611.0	20.1			G1/1800
FVH (80°-90°)	65.3	0.8			G1/100
BL (0°-30°)	464.8	5.8	B1/500		
BM (30°-60°)	1210.0	15.1	B2/2500		
BH (60°-80°)	813.1	10.1	B2/1000		G2/1000
BVH (80°-90°)	46.7	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1
2.5°	879.3	876.8	878.8	878.8	879.7	879.3	882.2	883.0	884.3	886.8
5°	870.5	870.1	873.8	877.2	880.5	883.4	887.2	892.6	893.4	896.3
7.5°	867.6	865.1	870.9	875.1	883.0	890.1	900.1	909.3	913.0	914.3
10°	890.1	885.9	891.3	893.8	900.5	907.6	919.3	933.8	938.0	943.0
12.5°	928.4	923.8	931.8	935.5	941.8	948.0	955.9	970.1	972.2	981.4
15°	980.9	975.5	980.5	985.1	995.5	1001.4	1009.3	1023.0	1023.0	1030.1
17.5°	1052.2	1045.1	1048.9	1050.5	1057.2	1065.9	1079.3	1091.4	1097.6	1095.1
20°	1158.5	1149.7	1149.7	1141.4	1138.9	1146.0	1163.5	1180.1	1186.8	1173.9
22.5°	1318.1	1305.6	1298.5	1270.1	1258.9	1259.7	1277.2	1297.6	1303.1	1280.1
25°	1521.0	1501.4	1491.8	1450.2	1424.7	1402.6	1416.4	1442.6	1450.2	1421.8
27.5°	1723.9	1725.2	1716.0	1666.0	1623.9	1583.5	1576.4	1603.9	1611.8	1579.7
30°	2008.5	1979.0	1961.5	1901.4	1841.4	1784.8	1755.6	1766.8	1768.9	1730.6
32.5°	2254.0	2246.5	2209.0	2156.5	2079.4	1990.6	1941.9	1923.9	1920.6	1866.0
35°	2533.6	2529.4	2489.8	2427.3	2344.0	2220.6	2132.7	2081.5	2077.3	2000.6
37.5°	2817.8	2817.8	2779.0	2710.7	2624.4	2470.3	2336.5	2255.2	2241.9	2141.9
40°	3044.5	3030.7	3037.8	3009.1	2910.3	2746.5	2562.8	2444.8	2426.9	2306.9
42.5°	3173.2	3168.7	3211.2	3243.3	3202.8	3072.0	2812.0	2650.3	2625.3	2488.6
45°	3202.0	3197.0	3272.8	3390.4	3447.0	3393.3	3082.8	2866.5	2836.1	2678.6
47.5°	3135.7	3125.7	3237.0	3422.4	3604.1	3698.7	3376.2	3101.2	3057.0	2863.6
50°	2936.6	2927.0	3095.3	3341.6	3657.0	3906.2	3694.5	3349.9	3282.4	3062.0
52.5°	2503.6	2508.2	2772.0	3110.3	3587.5	4035.4	3968.7	3612.0	3530.8	3264.9
55°	1950.2	1960.2	2284.4	2656.9	3309.1	4015.8	4155.8	3882.1	3801.2	3455.8
57.5°	1396.4	1440.6	1744.3	2113.1	2774.5	3705.4	4196.7	4138.8	4060.4	3664.1
60°	905.1	913.0	1225.5	1597.2	2112.7	3153.7	4113.8	4333.4	4272.1	3876.7
62.5°	580.1	585.5	775.9	1117.2	1520.6	2333.2	3834.6	4418.0	4399.2	4017.1
65°	426.3	422.1	521.3	738.4	1024.3	1438.9	3292.4	4377.1	4414.2	4105.0
67.5°	355.9	350.0	398.8	511.3	754.7	817.2	2436.1	4111.7	4247.5	4095.0
70°	324.2	319.2	348.8	379.6	588.8	547.1	1228.0	3574.5	3783.7	3981.2
72.5°	274.6	265.9	306.3	337.1	458.0	419.6	507.6	2745.7	3000.7	3616.6
75°	212.9	207.1	241.7	296.7	344.2	327.5	320.9	1667.3	1945.6	2797.0
77.5°	168.8	160.8	192.5	231.3	309.6	247.1	233.8	718.0	993.9	1785.6
80°	127.1	120.0	146.3	182.9	237.9	186.3	151.3	292.9	374.6	904.7
82.5°	90.4	84.2	102.1	134.2	160.0	167.1	92.9	164.2	184.6	348.8
85°	57.9	54.2	68.3	84.2	101.7	107.5	56.7	85.8	94.2	143.8
87.5°	31.7	25.8	36.7	39.2	47.1	42.9	27.1	31.3	33.8	52.1
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°
885.1	0°	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1	885.1
886.8	2.5°	888.4	889.7	893.8	895.1	898.0	901.8	904.3	906.8	906.8	909.3
900.1	5°	900.5	903.4	912.2	916.8	924.3	931.8	936.3	941.8	945.1	946.8
921.3	7.5°	923.8	928.4	940.9	948.8	961.8	972.2	979.3	986.8	988.4	993.0
950.9	10°	955.5	960.9	975.1	990.1	1005.5	1018.4	1025.1	1030.5	1032.6	1033.4
988.9	12.5°	991.8	999.7	1018.0	1036.4	1052.6	1063.9	1065.5	1064.3	1058.4	1053.4
1035.5	15°	1036.4	1043.4	1063.9	1083.9	1099.7	1101.8	1091.4	1084.7	1077.6	1076.4
1087.6	17.5°	1089.7	1093.4	1112.2	1131.8	1133.0	1125.9	1110.5	1104.3	1097.6	1093.0
1155.5	20°	1151.8	1150.5	1163.9	1172.2	1163.5	1141.8	1118.4	1108.0	1101.4	1095.9
1238.9	22.5°	1226.0	1216.4	1214.7	1212.6	1189.3	1143.9	1112.2	1098.9	1088.4	1080.9
1355.1	25°	1333.9	1297.2	1271.8	1257.6	1205.1	1132.6	1092.2	1062.6	1043.0	1030.1
1497.2	27.5°	1468.9	1407.2	1343.1	1308.5	1205.1	1109.7	1043.9	995.9	963.8	950.5
1634.8	30°	1597.7	1533.1	1438.5	1369.7	1202.2	1072.2	965.9	899.3	861.8	848.4
1752.3	32.5°	1707.7	1637.3	1539.7	1436.8	1195.1	1011.4	869.3	795.5	759.2	743.4
1868.5	35°	1809.8	1734.8	1641.4	1510.6	1176.4	922.2	763.0	706.7	666.3	640.9
1986.9	37.5°	1914.4	1825.2	1737.7	1577.2	1142.6	818.0	681.3	633.4	585.9	551.7
2112.7	40°	2028.1	1921.4	1840.6	1616.8	1087.2	718.8	618.0	574.2	523.8	487.6
2257.7	42.5°	2161.1	2036.9	1955.2	1637.3	1011.4	648.4	576.7	533.8	486.3	456.7
2413.2	45°	2299.8	2164.0	2059.8	1636.8	926.8	615.5	563.4	520.9	468.4	437.5
2572.8	47.5°	2445.3	2296.9	2150.2	1610.2	853.4	620.1	555.9	493.0	435.0	405.0
2734.0	50°	2591.1	2442.3	2237.7	1560.2	822.2	610.1	528.0	453.8	385.5	358.4
2885.3	52.5°	2735.7	2596.9	2313.2	1488.9	790.5	573.0	492.1	403.0	365.0	346.3
3041.6	55°	2881.1	2749.9	2395.2	1385.1	711.3	529.6	432.1	383.8	348.8	331.7
3194.5	57.5°	3027.0	2926.6	2473.2	1281.4	611.7	476.3	399.2	360.5	332.5	317.9
3322.4	60°	3178.7	3128.7	2553.6	1186.0	513.4	408.0	375.0	341.7	313.4	297.1
3445.4	62.5°	3334.9	3351.2	2616.5	1063.0	423.0	366.3	353.4	319.2	291.7	276.3
3547.0	65°	3492.4	3565.8	2657.8	892.6	343.0	326.7	330.0	294.6	266.7	253.4
3621.6	67.5°	3611.2	3720.4	2646.1	675.5	281.3	289.2	300.9	268.8	242.5	232.1
3609.5	70°	3624.5	3702.0	2531.1	462.5	235.4	252.5	268.4	243.4	216.3	208.8
3439.5	72.5°	3447.0	3452.0	2210.6	302.1	199.2	221.7	234.2	217.5	191.3	183.8
3009.1	75°	2981.6	2854.9	1623.1	199.2	166.7	190.4	202.1	190.4	165.0	166.7
2251.5	77.5°	2259.0	2021.9	985.5	141.7	139.2	160.0	175.9	167.5	145.8	163.8
1132.2	80°	1163.9	1093.9	439.6	105.8	110.0	127.9	144.6	133.8	115.4	110.0
252.9	82.5°	266.7	310.0	173.4	75.8	79.6	92.1	110.4	100.4	82.9	70.0
105.4	85°	93.3	102.1	76.7	47.5	46.7	57.5	75.0	67.1	56.3	45.0
44.6	87.5°	29.6	38.8	28.8	19.2	20.0	25.8	34.6	31.7	26.3	17.1
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>
885.1
909.3
947.6
991.4
1031.4
1053.4
1076.4
1093.4
1096.4
1083.4
1035.1
957.2
856.3
751.3
649.2
560.9
494.6
462.5
442.5
409.2
360.0
346.3
330.0
315.4
295.9
275.9
252.9
232.5
209.2
183.4
160.8
144.2
100.4
69.2
47.5
17.9
0.0

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