

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: P946778

Luminaire Tested: **GALN-SB2B-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946778  
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-SB2B-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

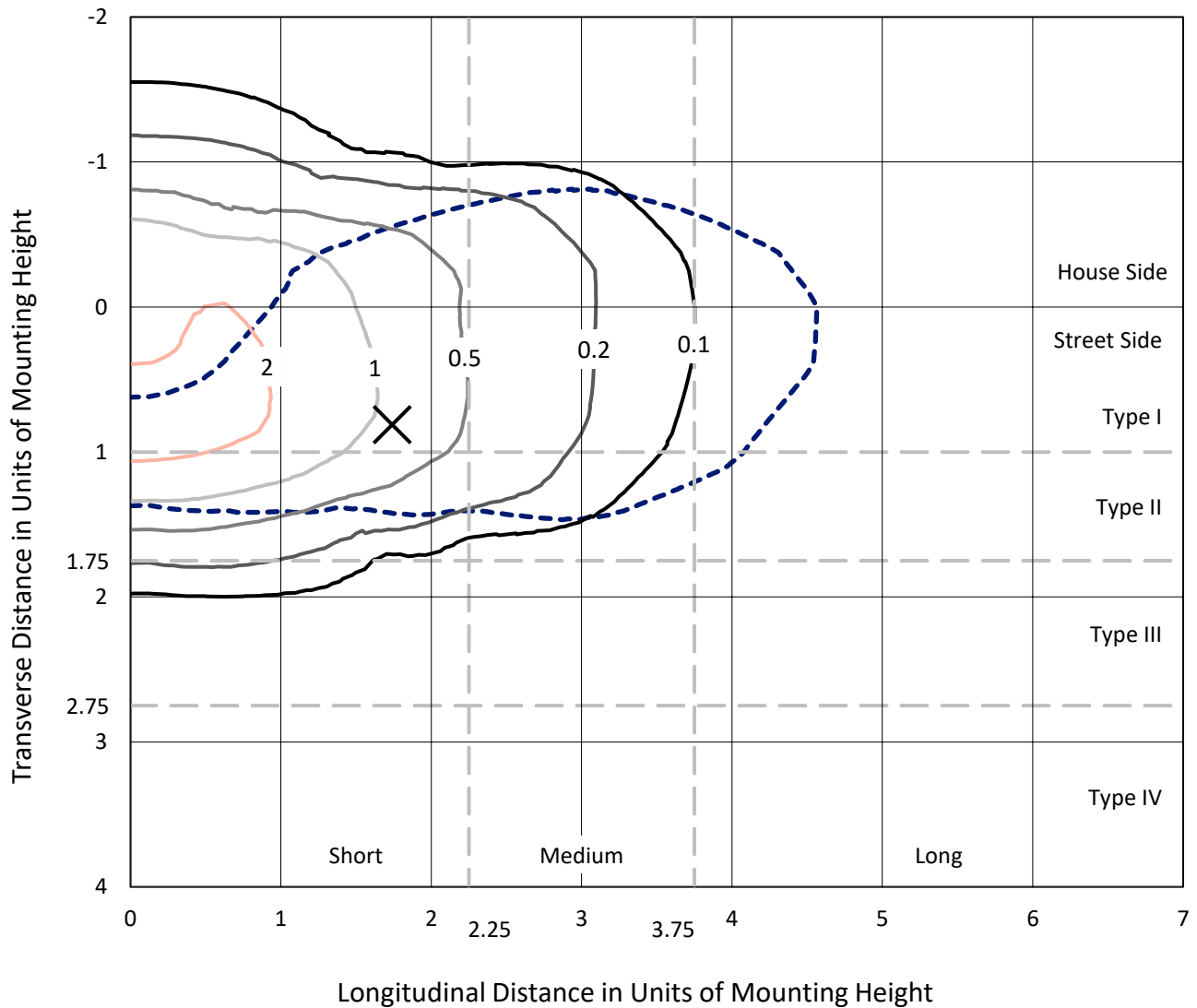
Lumens per Lamp: N/A  
Luminaire Lumens: 9923 lumens  
Efficiency: N/A  
Efficacy: 134.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

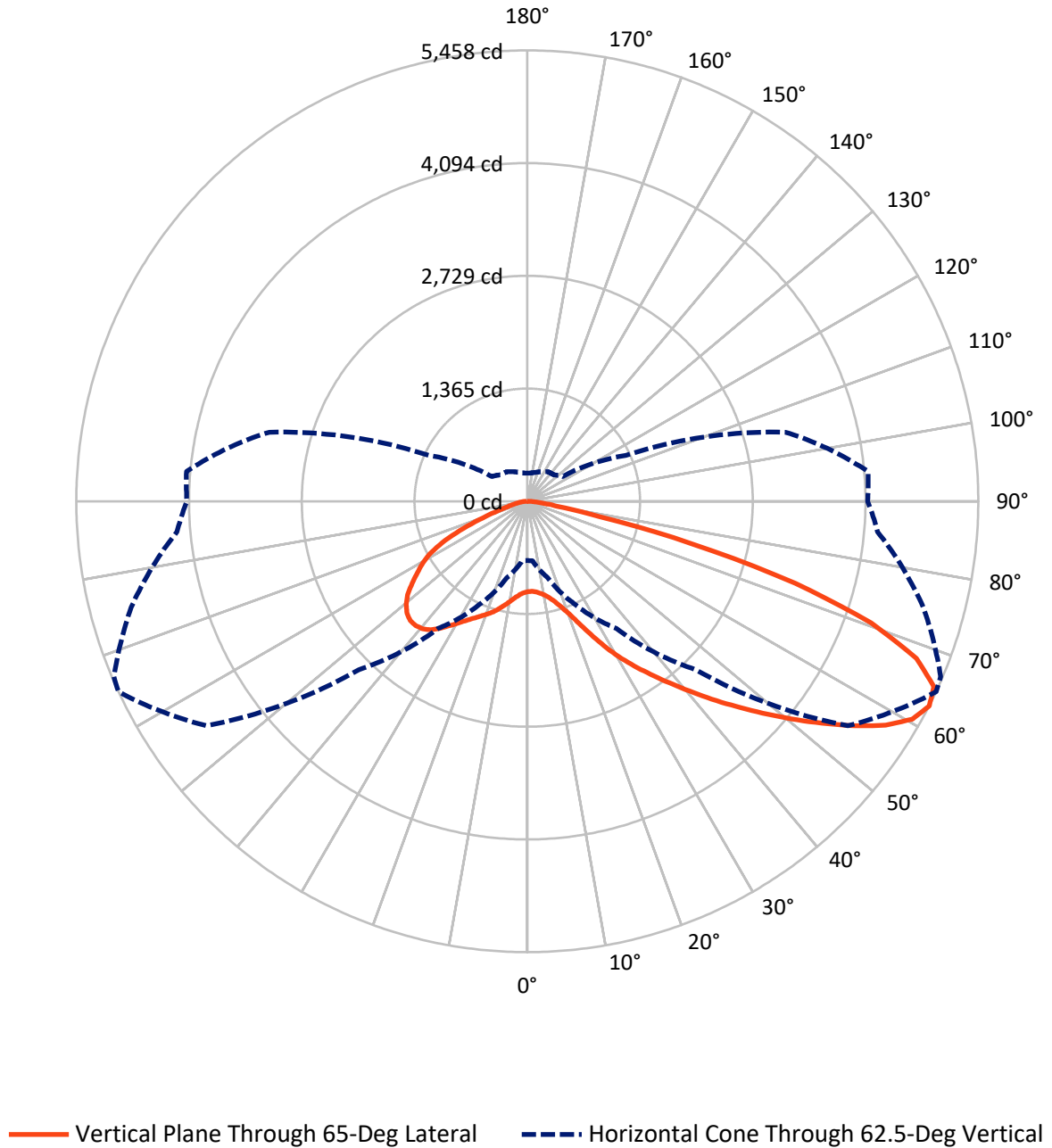
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3131.3	0.0	3131.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	6791.7	0.0	6791.7
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	9923.0	0.0	9923.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	1.1
10°-20°	369.7	3.7
20°-30°	749.6	7.6
30°-40°	1297.1	13.1
40°-50°	1963.0	19.8
50°-60°	2301.5	23.2
60°-70°	1929.5	19.4
70°-80°	1065.2	10.7
80°-90°	138.4	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°	9923.0	100.0
0°-180°	9923.0	100.0

**Coefficient of Utilization**



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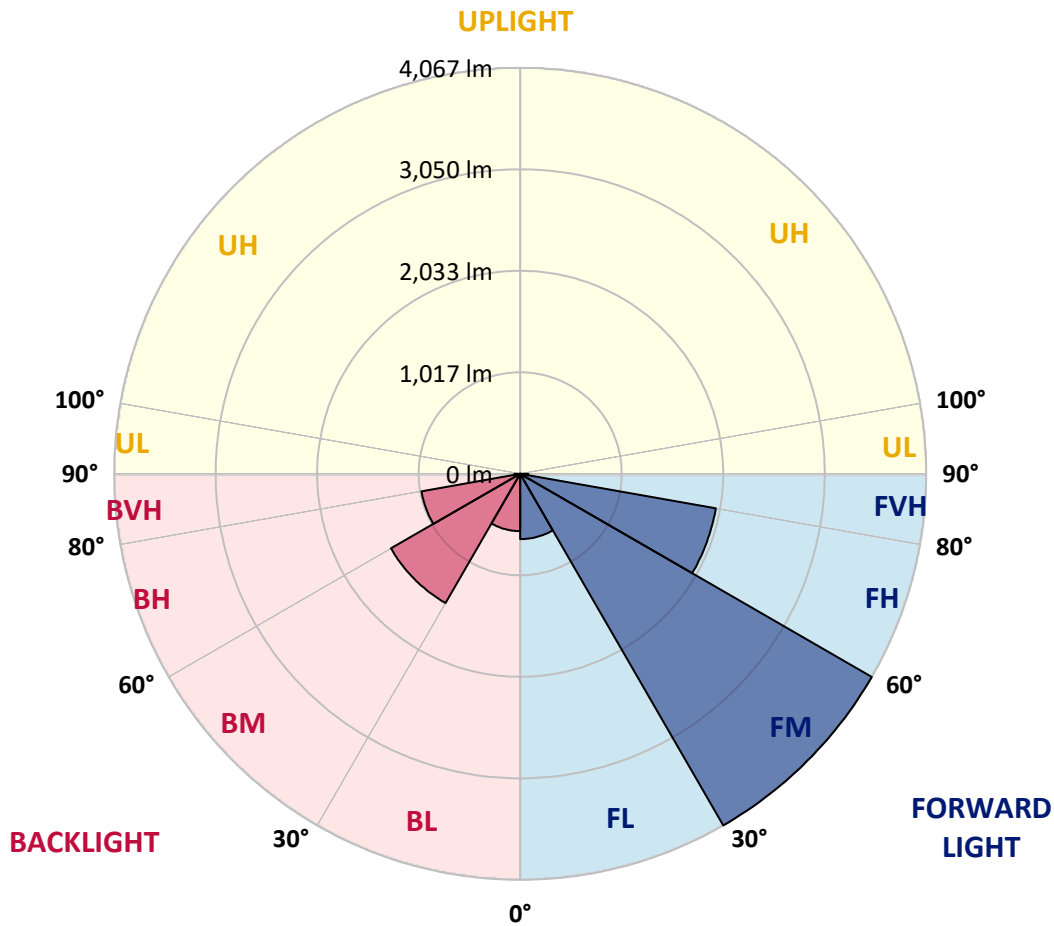
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.1	6.6			
FM (30°-60°)	4066.8	41.0			
FH (60°-80°)	1990.3	20.1			G2/5000
FVH (80°-90°)	80.6	0.8			G1/100
BL (0°-30°)	574.2	5.8	B2/1000		
BM (30°-60°)	1494.8	15.1	B2/2500		
BH (60°-80°)	1004.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	57.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5
2.5°	1086.3	1083.2	1085.7	1085.7	1086.8	1086.3	1089.9	1090.9	1092.4	1095.5
5°	1075.5	1074.9	1079.6	1083.7	1087.8	1091.4	1096.0	1102.7	1103.8	1107.4
7.5°	1071.8	1068.8	1076.0	1081.1	1090.9	1099.6	1112.0	1123.3	1128.0	1129.5
10°	1099.6	1094.5	1101.2	1104.3	1112.5	1121.3	1135.7	1153.7	1158.9	1165.0
12.5°	1147.0	1141.3	1151.1	1155.8	1163.5	1171.2	1181.0	1198.5	1201.1	1212.4
15°	1211.9	1205.2	1211.4	1217.0	1229.9	1237.1	1246.9	1263.9	1263.9	1272.6
17.5°	1299.9	1291.2	1295.8	1297.9	1306.1	1316.9	1333.4	1348.3	1356.0	1352.9
20°	1431.2	1420.4	1420.4	1410.1	1407.0	1415.7	1437.4	1458.0	1466.2	1450.2
22.5°	1628.4	1612.9	1604.2	1569.2	1555.3	1556.3	1577.9	1603.1	1609.8	1581.5
25°	1879.1	1854.9	1843.0	1791.6	1760.2	1732.9	1749.9	1782.3	1791.6	1756.6
27.5°	2129.8	2131.3	2120.0	2058.2	2006.2	1956.3	1947.6	1981.5	1991.3	1951.7
30°	2481.4	2444.9	2423.2	2349.1	2275.0	2205.0	2168.9	2182.8	2185.4	2138.0
32.5°	2784.6	2775.4	2729.0	2664.2	2568.9	2459.3	2399.0	2376.9	2372.8	2305.4
35°	3130.1	3124.9	3076.0	2998.8	2895.8	2743.5	2634.8	2571.5	2566.4	2471.6
37.5°	3481.2	3481.2	3433.3	3348.9	3242.3	3051.8	2886.6	2786.2	2769.7	2646.2
40°	3761.3	3744.3	3753.0	3717.5	3595.5	3393.2	3166.1	3020.4	2998.3	2850.0
42.5°	3920.3	3914.7	3967.2	4006.8	3956.9	3795.2	3474.0	3274.2	3243.3	3074.5
45°	3955.9	3949.7	4043.4	4188.6	4258.6	4192.2	3808.6	3541.4	3503.8	3309.2
47.5°	3874.0	3861.6	3999.1	4228.2	4452.7	4569.5	4171.0	3831.3	3776.7	3537.8
50°	3627.9	3616.1	3824.1	4128.3	4518.0	4825.9	4564.4	4138.6	4055.2	3782.9
52.5°	3093.0	3098.7	3424.6	3842.6	4432.1	4985.5	4903.1	4462.4	4362.0	4033.6
55°	2409.3	2421.7	2822.2	3282.5	4088.2	4961.3	5134.3	4796.0	4696.2	4269.4
57.5°	1725.2	1779.7	2155.0	2610.6	3427.7	4577.8	5184.7	5113.2	5016.4	4526.8
60°	1118.2	1128.0	1514.1	1973.3	2610.1	3896.1	5082.3	5353.6	5277.9	4789.3
62.5°	716.6	723.3	958.6	1380.2	1878.6	2882.5	4737.3	5458.1	5434.9	4962.8
65°	526.7	521.5	644.0	912.3	1265.4	1777.7	4067.6	5407.6	5453.5	5071.5
67.5°	439.7	432.4	492.7	631.7	932.3	1009.6	3009.6	5079.7	5247.5	5059.1
70°	400.5	394.3	430.9	469.0	727.4	676.0	1517.2	4416.1	4674.5	4918.6
72.5°	339.3	328.5	378.4	416.5	565.8	518.4	627.0	3392.1	3707.2	4468.1
75°	263.1	255.9	298.6	366.5	425.2	404.6	396.4	2059.8	2403.7	3455.5
77.5°	208.5	198.7	237.8	285.7	382.5	305.3	288.8	887.0	1227.8	2206.0
80°	157.0	148.3	180.7	226.0	294.0	230.1	186.9	361.9	462.8	1117.7
82.5°	111.7	104.0	126.1	165.8	197.7	206.4	114.8	202.8	228.1	430.9
85°	71.6	66.9	84.4	104.0	125.6	132.8	70.0	106.1	116.3	177.6
87.5°	39.1	31.9	45.3	48.4	58.2	53.0	33.5	38.6	41.7	64.4
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°
1093.5	0°	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5	1093.5
1095.5	2.5°	1097.6	1099.1	1104.3	1105.8	1109.4	1114.1	1117.2	1120.2	1120.2	1123.3
1112.0	5°	1112.5	1116.1	1126.9	1132.6	1141.9	1151.1	1156.8	1163.5	1167.6	1169.7
1138.3	7.5°	1141.3	1147.0	1162.5	1172.2	1188.2	1201.1	1209.8	1219.1	1221.1	1226.8
1174.8	10°	1180.5	1187.2	1204.7	1223.2	1242.3	1258.2	1266.5	1273.1	1275.7	1276.7
1221.7	12.5°	1225.3	1235.0	1257.7	1280.4	1300.4	1314.3	1316.4	1314.8	1307.6	1301.5
1279.3	15°	1280.4	1289.1	1314.3	1339.0	1358.6	1361.2	1348.3	1340.1	1331.3	1329.8
1343.7	17.5°	1346.2	1350.9	1374.0	1398.2	1399.8	1391.0	1372.0	1364.3	1356.0	1350.4
1427.6	20°	1423.0	1421.4	1437.9	1448.2	1437.4	1410.6	1381.8	1368.9	1360.7	1354.0
1530.6	22.5°	1514.6	1502.8	1500.7	1498.1	1469.3	1413.2	1374.0	1357.6	1344.7	1335.4
1674.2	25°	1647.9	1602.6	1571.2	1553.7	1488.9	1399.3	1349.3	1312.8	1288.6	1272.6
1849.7	27.5°	1814.7	1738.5	1659.3	1616.5	1488.9	1371.0	1289.6	1230.4	1190.8	1174.3
2019.6	30°	1973.8	1894.0	1777.1	1692.2	1485.2	1324.6	1193.3	1111.0	1064.6	1048.2
2164.8	32.5°	2109.7	2022.7	1902.2	1775.1	1476.5	1249.5	1073.9	982.8	938.0	918.4
2308.4	35°	2235.9	2143.2	2027.9	1866.2	1453.3	1139.3	942.6	873.1	823.2	791.8
2454.6	37.5°	2365.1	2254.9	2146.8	1948.6	1411.6	1010.6	841.7	782.5	723.8	681.6
2610.1	40°	2505.6	2373.8	2273.9	1997.5	1343.2	888.1	763.5	709.4	647.1	602.3
2789.3	42.5°	2669.8	2516.4	2415.5	2022.7	1249.5	801.1	712.5	659.5	600.8	564.2
2981.3	45°	2841.3	2673.4	2544.7	2022.2	1145.0	760.4	696.0	643.5	578.7	540.6
3178.5	47.5°	3020.9	2837.7	2656.5	1989.3	1054.3	766.0	686.8	609.0	537.5	500.4
3377.7	50°	3201.1	3017.3	2764.6	1927.5	1015.7	753.7	652.3	560.6	476.2	442.7
3564.6	52.5°	3379.8	3208.3	2857.7	1839.4	976.6	707.9	608.0	497.8	451.0	427.8
3757.7	55°	3559.4	3397.3	2959.2	1711.3	878.8	654.3	533.9	474.1	430.9	409.8
3946.6	57.5°	3739.6	3615.6	3055.4	1583.1	755.8	588.4	493.2	445.3	410.8	392.8
4104.6	60°	3927.0	3865.2	3154.8	1465.2	634.3	504.0	463.3	422.2	387.1	367.1
4256.5	62.5°	4120.1	4140.2	3232.5	1313.3	522.5	452.5	436.6	394.3	360.4	341.3
4382.1	65°	4314.7	4405.3	3283.5	1102.7	423.7	403.6	407.7	364.0	329.5	313.0
4474.3	67.5°	4461.4	4596.3	3269.1	834.5	347.5	357.3	371.7	332.1	299.6	286.8
4459.3	70°	4477.9	4573.6	3127.0	571.4	290.9	312.0	331.5	300.7	267.2	257.9
4249.3	72.5°	4258.6	4264.7	2731.1	373.2	246.1	273.9	289.3	268.7	236.3	227.0
3717.5	75°	3683.5	3527.0	2005.2	246.1	205.9	235.3	249.7	235.3	203.9	205.9
2781.6	77.5°	2790.8	2497.9	1217.5	175.0	171.9	197.7	217.3	207.0	180.2	202.3
1398.8	80°	1437.9	1351.4	543.1	130.8	135.9	158.0	178.6	165.3	142.6	135.9
312.5	82.5°	329.5	383.0	214.2	93.7	98.3	113.8	136.4	124.1	102.4	86.5
130.2	85°	115.3	126.1	94.7	58.7	57.7	71.0	92.7	82.9	69.5	55.6
55.1	87.5°	36.6	47.9	35.5	23.7	24.7	31.9	42.7	39.1	32.4	21.1
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>
1093.5
1123.3
1170.7
1224.7
1274.2
1301.5
1329.8
1350.9
1354.5
1338.5
1278.8
1182.5
1057.9
928.2
802.1
692.9
611.1
571.4
546.7
505.6
444.8
427.8
407.7
389.7
365.5
340.8
312.5
287.3
258.4
226.5
198.7
178.1
124.1
85.5
58.7
22.1
0.0

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